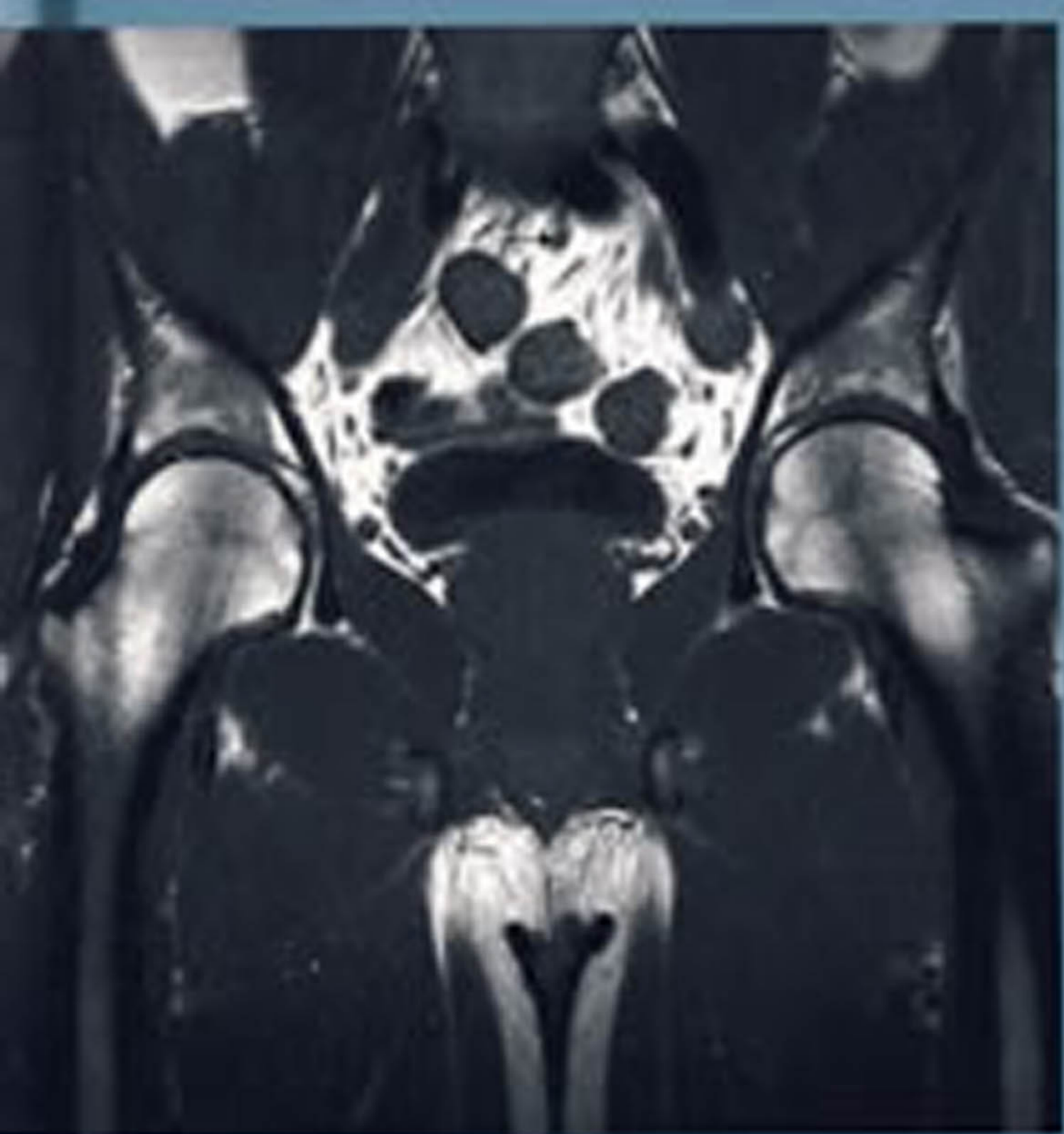


中英对照

影像解剖图谱

(第三版)

Imaging Atlas of
Human Anatomy (Third Edition)



原著

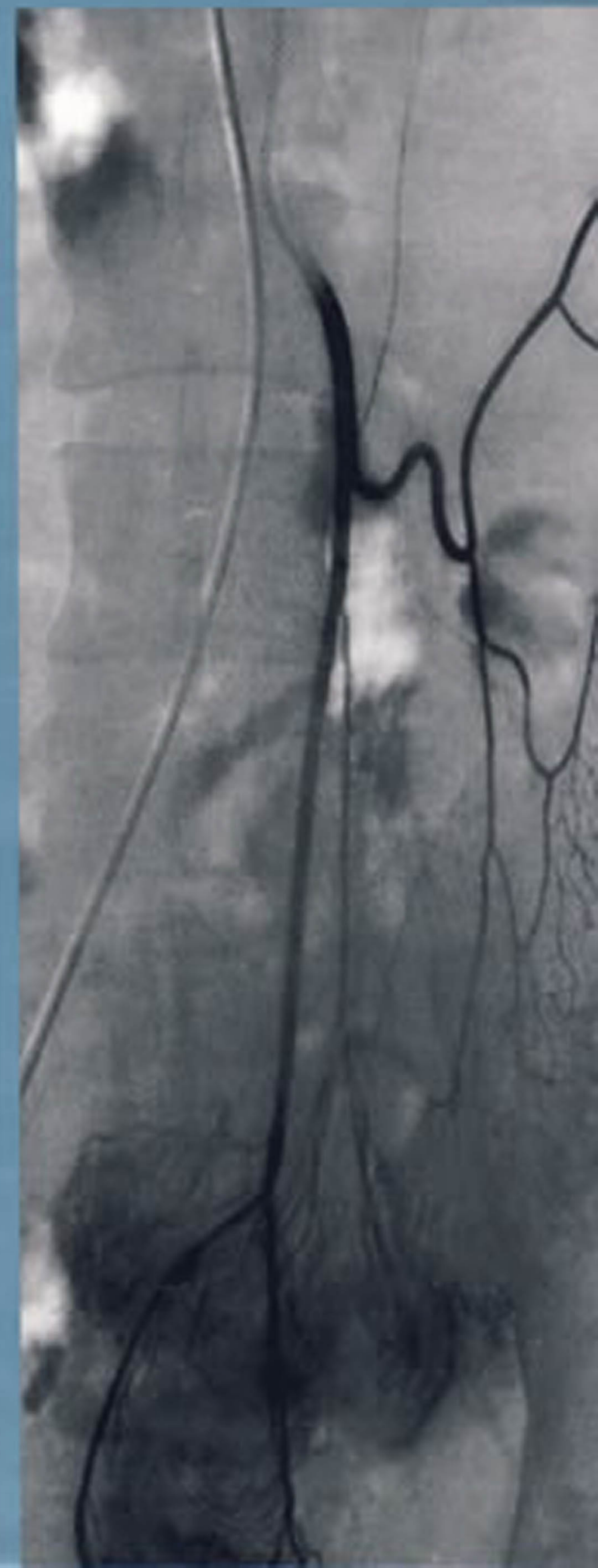
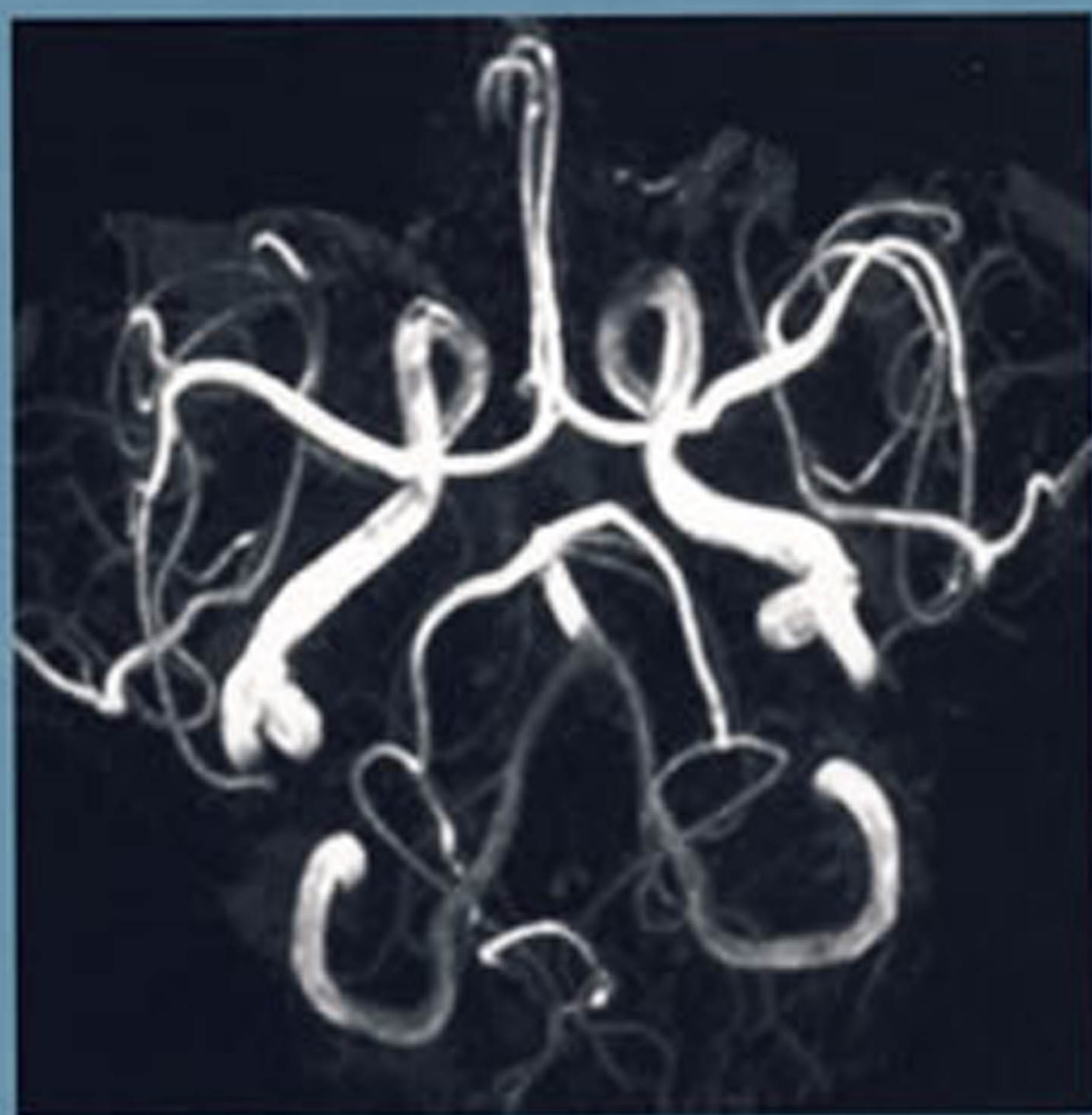
(英) Jamie Weir

Peter H. Abrahams

译者

陈宏颀 高进喜

李敬成 吕奇



福建科学技术出版社

中英对照 影像解剖图谱 (第三版)



随着科技的发展,现代影像技术能更清晰地显示人体的解剖结构及其周围关系。本书全面收集了各种先进影像技术显示的正常人体解剖结构图片,对于临床影像学和相关专业的医学生(实习生)、临床医师来说是一部理想的学习教材。它在700多幅人体正常结构的X线、CT、磁共振、超声波扫描、血管造影照片上,逐一标出解剖名称,使读者易于理解并掌握。

只有熟练掌握正常人体结构的影像,才有可能去理解和认识临床上各种复杂病理情况下的影像特征。本书前两版成功地帮助了广大读者打下了坚实的影像学基础,获得了极为广泛的好评,它也因此而创下了良好的销售记录。

第三版承袭了前两版的优秀风格,对于CT、MR和超声波扫描等内容作了更新,更新的内容包括200幅全新的图片和25幅线条图。因而,本书拥有超过700幅的清晰而珍贵的图片资料和35幅精美的线条图。

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Atlas of Human Anatomy,
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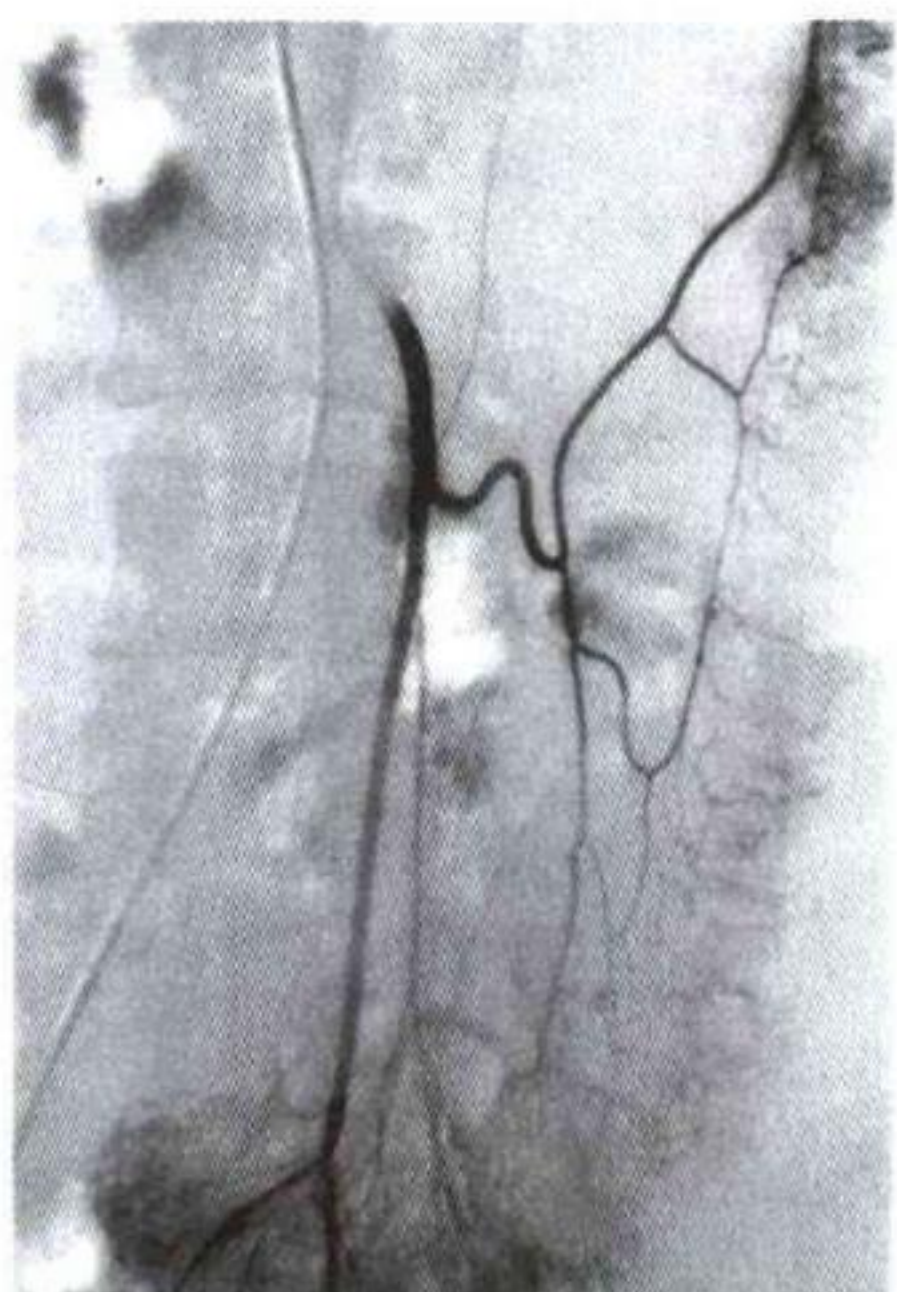
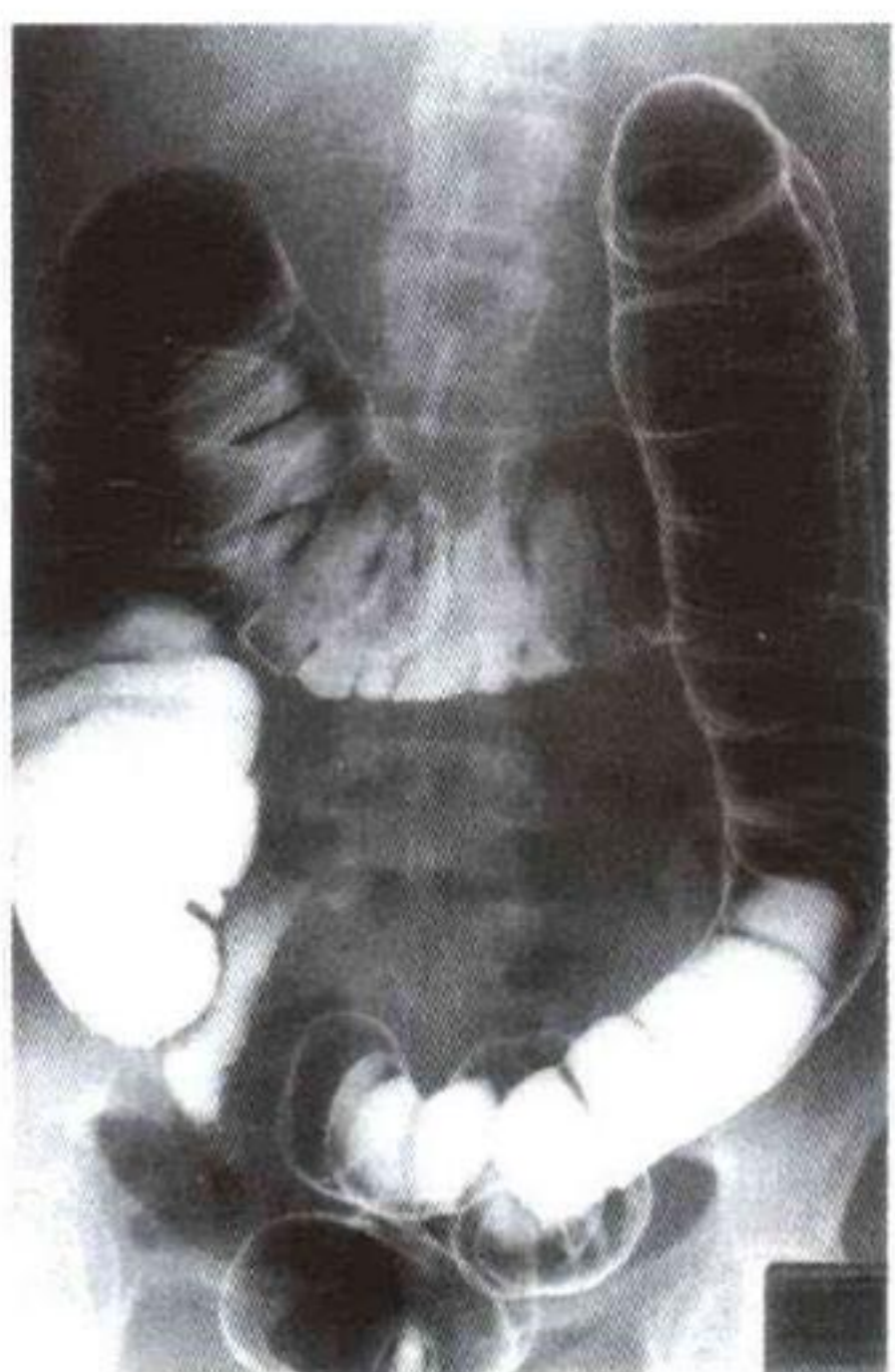
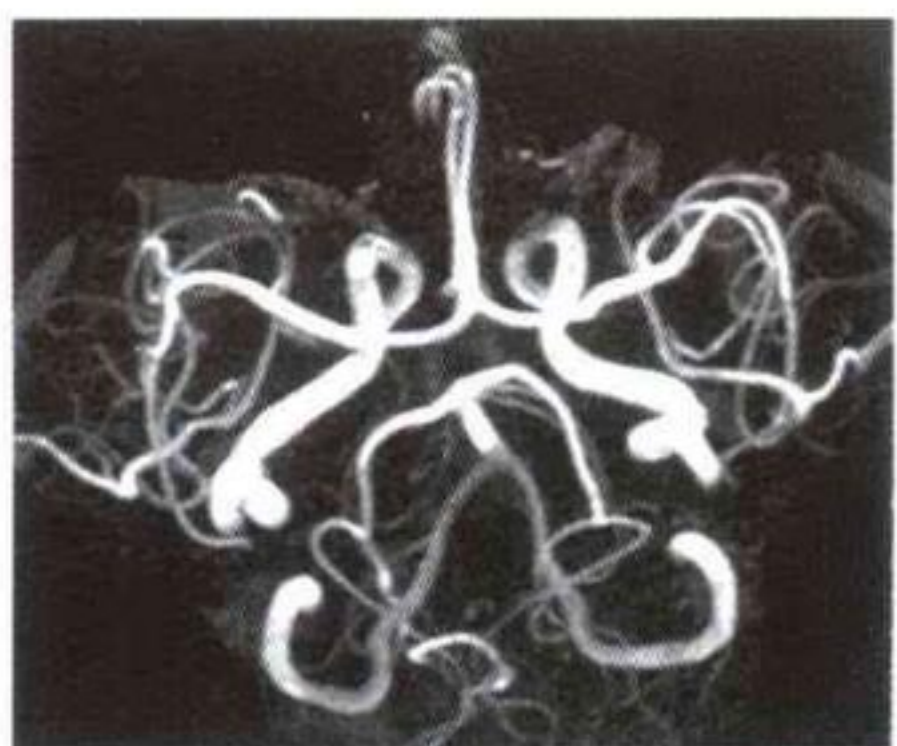
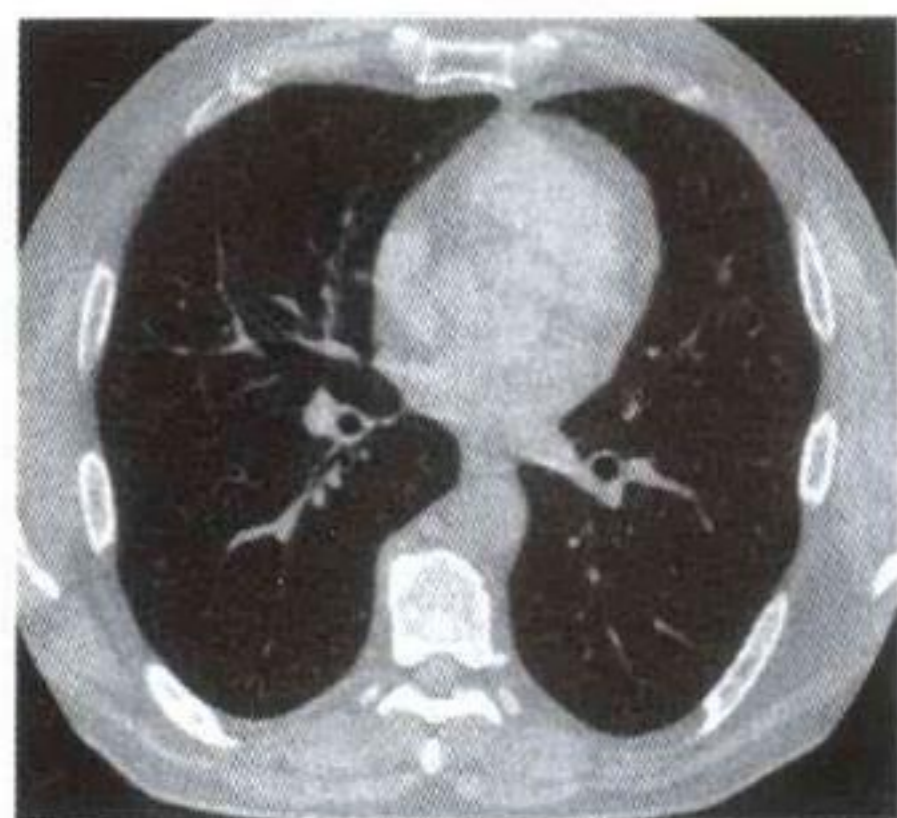


ISBN 7-5335-2685-6



9 787533 526856 >

定价:68.00 元



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影像解剖图谱 (第三版)

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原著: (英) Jamie Weir

Peter H. Abrahams

译者: 陈宏颀 高进喜 李敬成 吕奇

审校: 王如密 郑兆聪 李铭山

福建科学技术出版社

Imaging Atlas of Human Anatomy, Third Edition
Jamie Weir, Peter H. Abrahams
ISBN: 07234-32112
Copyright © 2003 by Elsevier. All rights reserved.

Authorized Simplified Chinese translation edition published by the Proprietor.
ISBN: 981-259-304-7

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Elsevier (Singapore) Pte Ltd.
3 Killiney Road
08-01 Winsland House I
Singapore 239519
Tel: (65) 6349-0200
Fax: (65) 6733-1817

First Published 2005
2005 年初版

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图书在版编目(CIP)数据

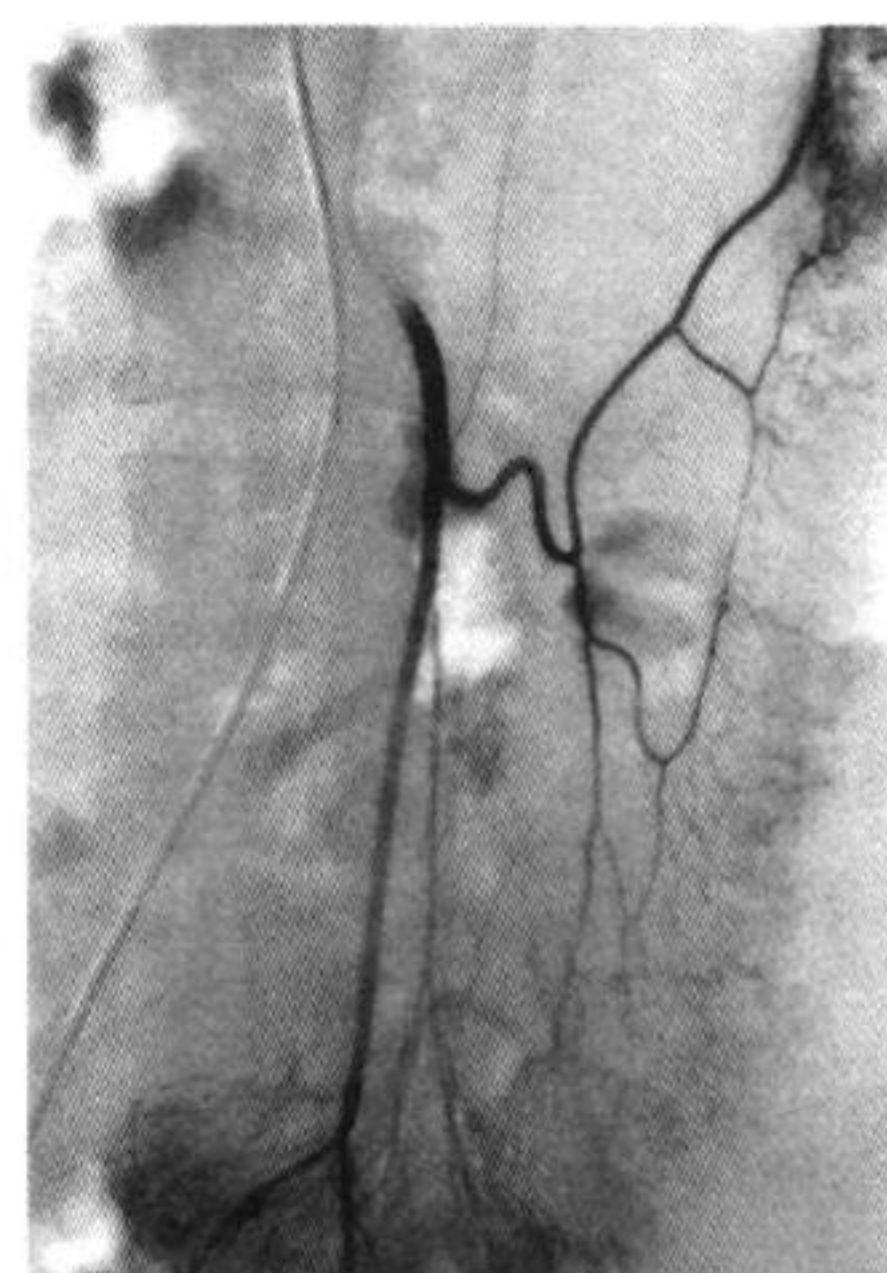
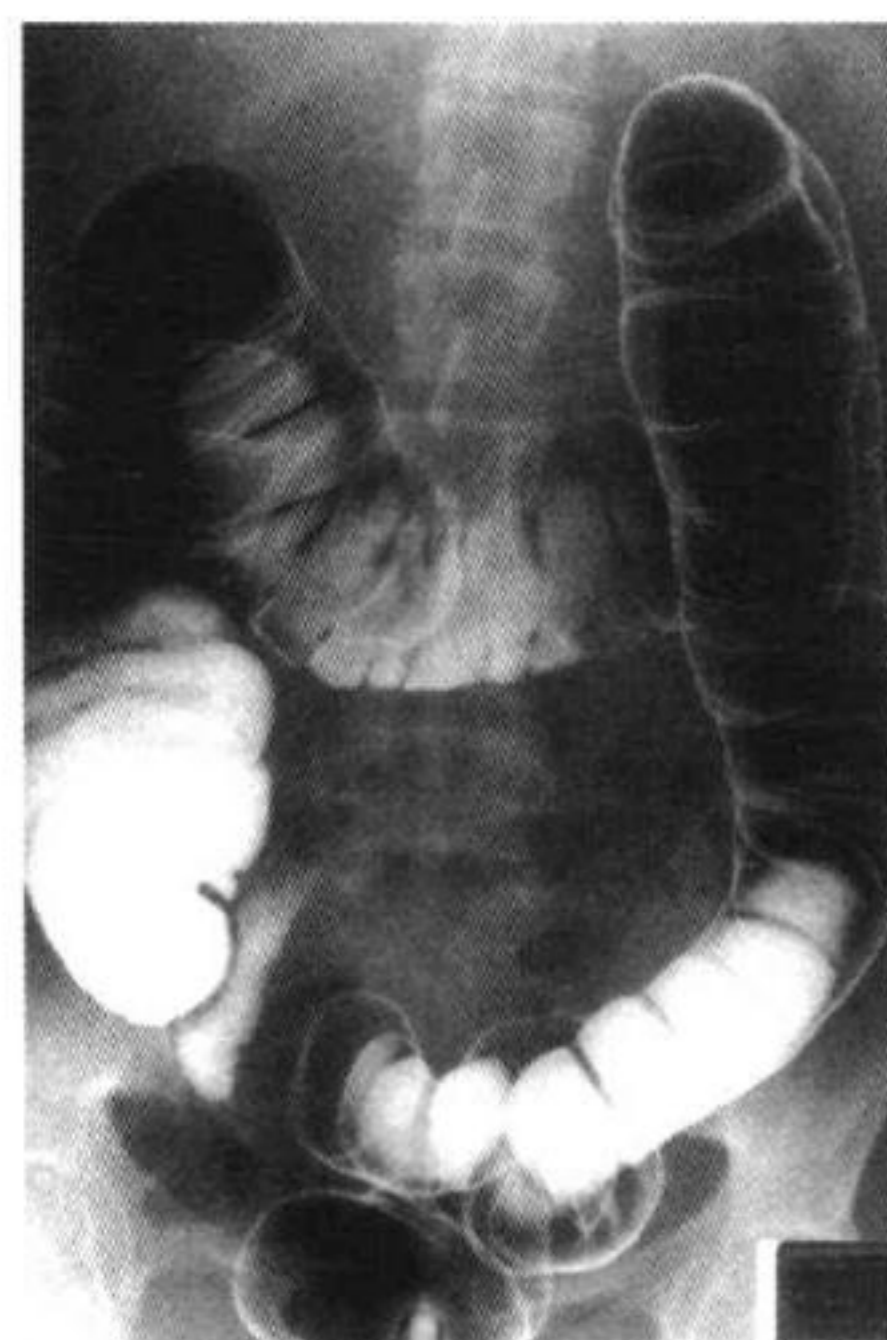
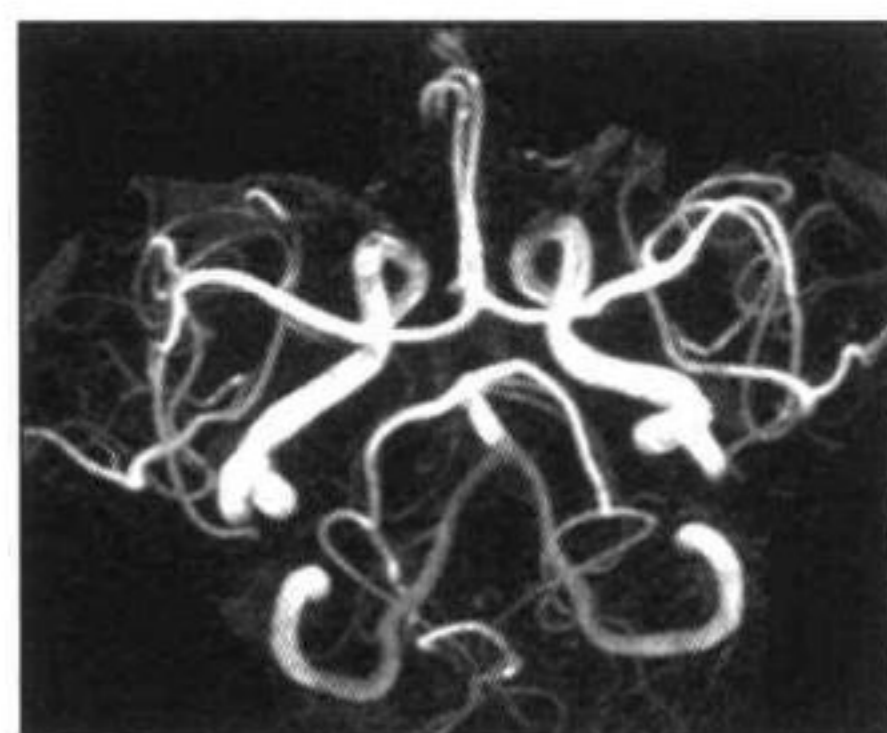
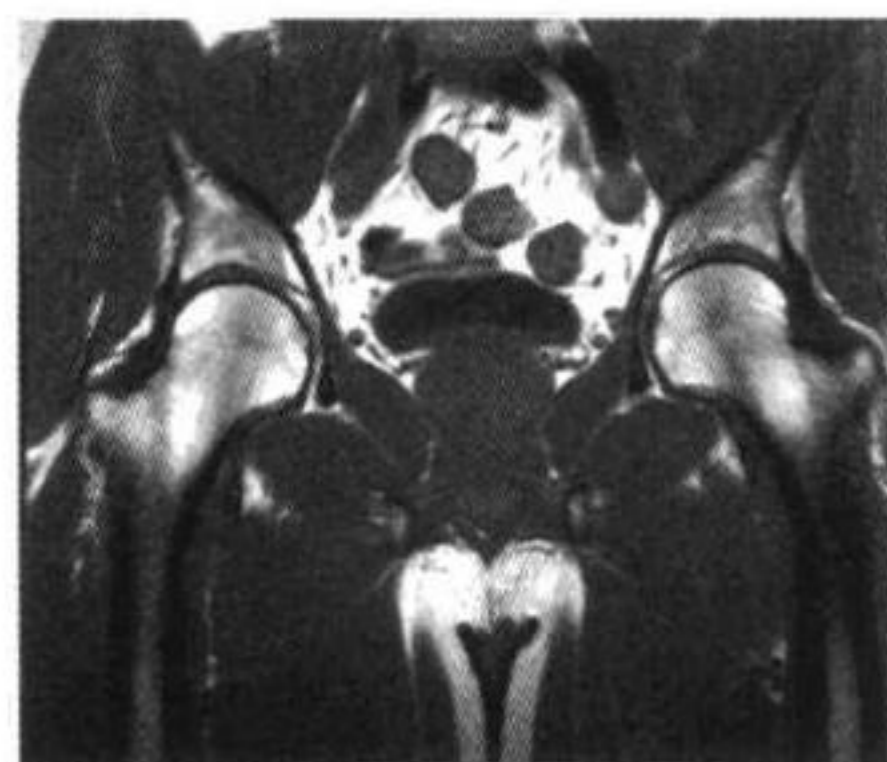
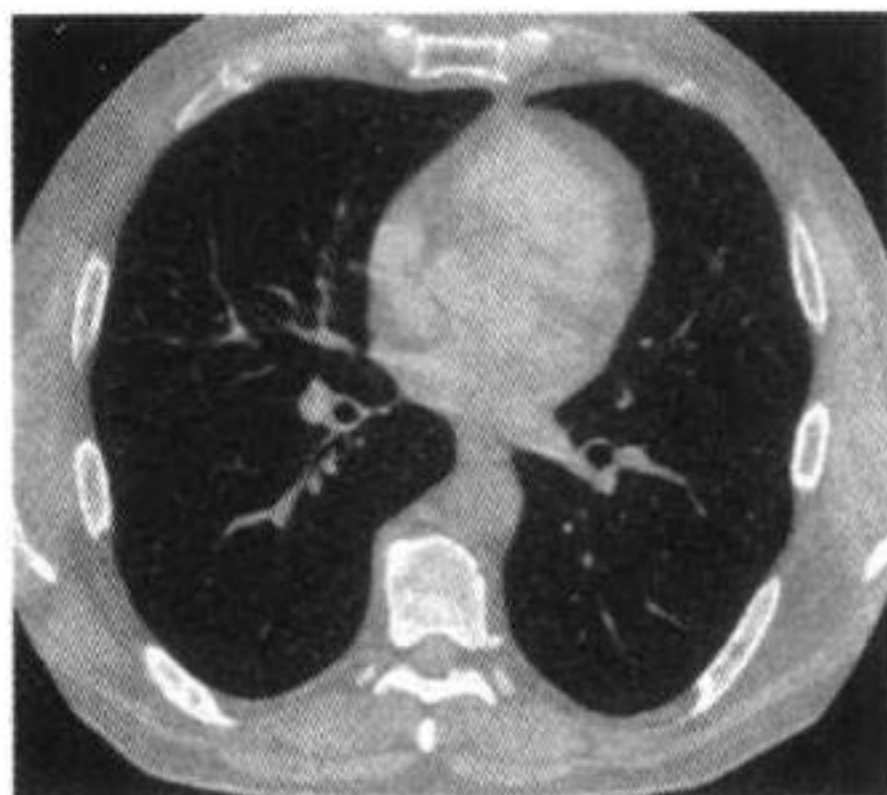
影像解剖图谱(第三版)/(英)韦尔(Weir, J.),
(英)亚伯拉罕斯(Abrahams, P. H.)著;陈宏颀等译.
—福州:福建科学技术出版社,2006.1
ISBN 7-5335-2685-6

I. 影… II. ①韦… ②亚… ③陈… III. 影像诊断—图谱 IV. R445-64

中国版本图书馆 CIP 数据核字(2005)第 106014 号

书 名 影像解剖图谱(第三版)
原 著 (英)Jamie Weir, Peter H. Abrahams
译 者 陈宏颀等
出版发行 福建科学技术出版社(福州市东水路 76 号,邮编 350001)
网 址 www. fjstp. com
经 销 各地新华书店
制版印刷 福建彩色印刷有限公司
开 本 889mm×1194mm 1/16
印 张 14
插 页 4
图 文 215 码
版 次 2006 年 1 月第 1 版
印 次 2006 年 1 月第 1 次印刷
书 号 ISBN 7-5335-2685-6
定 价 68.00 元

书中如有印装质量问题,可直接向本社调换。



作者简介

Jamie Weir MBBS DMRD FRCP(Ed) FRANZCR(Hon) FRCR

Clinical Professor of Radiology, Grampian University Hospitals Trust, Aberdeen, UK

Peter H. Abrahams MBBS FRCS(Ed) FRCR Do (Hon)

Professor of Clinical Anatomy, Kigezi International School of Medicine, Cambridge, UK,
and St George's University, Grenada, West Indies

Fellow, Girton College, Cambridge, UK

Examiner to the Royal College of Surgeons of Edinburgh, Scotland

Family Practitioner, Brent, London, UK

With four contributors

Anna-Maria Belli MBBS DMRD FRCR

Consultant Radiologist and Senior Lecturer, St George's Hospital and Medical School, London, UK

Margaret D Hourihan MB BCH FRCR

Consultant Neuroradiologist, Department of Radiology, University Hospital of Wales, Cardiff, UK

Niall R Moore MA MB BChir FRCP FRCR

University Lecturer in Radiology, University of Oxford, UK

Honorary Consultant Radiologist, Oxford Radcliffe Hospital, UK

J Philip Owen MBBS DMRD FRCR

Senior Lecturer/Head of Department, University Department of Radiology,
The University of Newcastle upon Tyne

Honorary Consultant in Radiology, Royal Victoria Infirmary, Newcastle upon Tyne, UK

第二版前言

《影像解剖图谱》第一版出版距今已有 4 年，在这 4 年中影像学取得了相当大的进展，尤其是在磁共振和超声波方面。在这一新版本中，已有超过一半的图片得到了更新，包括增加了一些全新的章节，增添了肢体骨化时间资料，帮助理解的线条示意图以及必要时的多个投照方位片。

原有的磁共振图像大多数已被更完善的图像所替代，这样能更清晰地显示解剖细节。超声波图像也变得更全面且更具有内在相关性。磁共振血管造影图像显示的不仅仅是这些图像的优质，更展示了下一世纪血管造影的美好前景。

很遗憾，原著者之一 Anne Hemingway 教授离开了我们这个团队，但我们仍要感谢她的帮助和鼓励。

正如我们在鸣谢中所说的，我们感谢那些为本书作出贡献的人，感谢他们提供的图像资料及专业知识。

第一版图谱的电子版已于 1995 年成功发行。多媒体平台提供了实时超声波图像，并具有自测和完全互动的特点。图谱电子版 2.0 版也将随本书新版本一起发行。

影像学开启了解剖学研究的新领域并将进一步发展下去。本书旨在使读者能够以影像学为工具去探索人体的奥妙。

Jamie Weir, Peter Abrahams
1996 年 9 月

第一版前言

在过去的几十年间，展示正常人体解剖的影像学技术已有了极大的提高。现代磁共振（MR）技术、计算机 X 线断层扫描（CT）技术和超声波技术具有显示软组织的能力。这些技术大大有助于我们将解剖室内的所见和临床实践相联系。本书的问世正是基于上述新技术的出现，以及适应解剖学教学的新要求。它能帮助医学生和实习医生理解解剖学基础。同时，也可为大学本科和研究生水平的人员进行临床影像分析提供全面的指导。

本书的编著者在各自的影像学领域均有极高的造诣，如此优秀的作者队伍保证了本书的编写质量与内容上的权威性。本图谱的编排承袭了《麦克明彩色人体解剖图谱》的风格，二者相辅相成。

本书中只有重要的或疑难的图片才会重复出现。另外，对于一些相同的解剖部位，本书提供了若干

不同的影像图片，这是为了更好地帮助理解所示部位的解剖。我们也展示了一些肢体骨化中心发育的重要标志的 X 线片，以及一些常见的先天性变异的图像。在某些特定的部位，重要的 MR 或 CT 图像也可能会超过一页，这是为了可以通过连续的水平层面了解这些特殊的结构。

虽然人体解剖并没有改变，但我们显示它的方法却极大地改进了。某些特殊的结构及其周围关系，如今通过现代影像技术第一次展现在我们面前，这都有助于我们的理解。对于所有从事与医疗有关的工作人员来说，从护士、医士、医学生到临床医生，掌握足够的影像解剖学知识，都是十分重要的。

Jamie Weir, Peter Abrahams
1992 年 2 月

第三版前言

解剖学教师的缺乏是普遍存在的现象，因此，解剖室内的教学实践也相当有限。然而，许多医学或卫生保健领域里的分支学科却要求学生或从业人员掌握足够的解剖学知识。在过去的10年中，影像技术在解剖学领域的地位愈显重要，而如今影像解剖学更是被许多医学院校编排入教学大纲中。许多读者将此书与解剖学图谱相结合，作为在学习医学及相关卫生保健学科过程中认识人体并理解人体功能的基础读物。

在第三版中，我们更新了大量有关胸部、腹部、盆部的MRI和CT内容，图片的清晰度更高，反映了现代影像技术的新进展。同时，根据反馈的广大读者的问卷调查结果，我们对部分内容进行了增减，收录了更多的线条示意图，以便于理解一些相对难懂的内容，如超声波部分。本书在编排设计上沿袭了《麦克明彩色人体解剖图谱》的风格，二者相辅相成。

由衷地感谢我们一贯的合著者 Hourihan、Moore、Belli 和 Owen 博士为本书供稿。虽然 Gillian Needham 教授投入到医学教育事业中去了，但仍要感谢她此前所给予我们的帮助。来自 Elsevier 出版公司的 Richard Furn 和 Colin Arthur 帮助完成了第三版的出版工作，他们的专业知识完全值得信赖。

现在的人体与3万年前仍然相同，只是我们对于它的认识以及在医学研究中运用这些认识的能力在不断提高和变化。我们希望本书能反映现代医学的发展趋势，并能使读者们更清晰地了解人体。

Jamie Weir, Peter Abrahams
2003年5月

第三版鸣谢

我们感谢来自英国伦敦 Hammersmith 医院的 Nicola H. Strickland 博士，以及来自英国阿伯丁的 Karen Duncan 博士，本书中新增的腹部和胎儿的超声影像资料由他们提供。

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血管造影

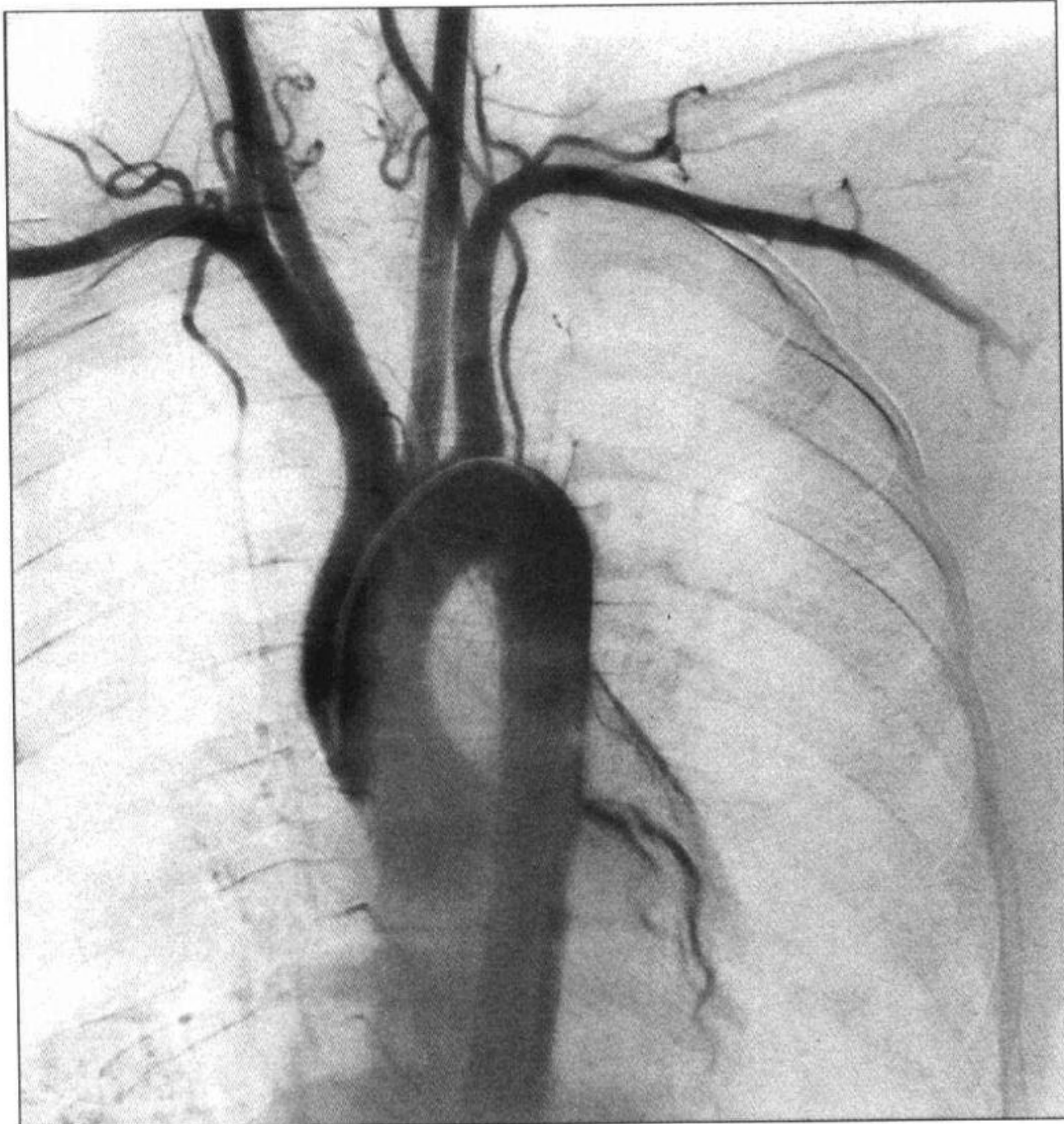
通常,动脉造影是在局麻下,经股动脉穿刺,将导管置入动脉系统并将对比剂注入检测区域的血管中而完成的。如果因某些原因,不能经股动脉进入(如髂动脉闭塞性疾病或一些移植的病例),则可考虑一些替代部位,如肱动脉或腋动脉。经腰主动脉造影(TLA),是一种直接经皮下穿刺主动脉造影的方法,现已很少使用,因为它不能选择性地插到主动脉分支中并使之显影,因此,也就不能进行经皮血管内介入性治疗。由于一些新技术的发展,使得主动脉和主要的上、下肢动脉的造影可以通过静脉(如肱静脉、上腔静脉或右心房)注射对比剂来完成,免除了一些病人动脉穿刺的必要。该技术采用了数字减影血管造影(DSA),消除一些不需要的背景信息,只留下需要的血管影像。由静脉注射取得的动脉影像称为静脉数字减影血管造影(IV DSA);当然,也可以直接动脉注射对比剂获取血管影像,称动脉数字减影血管造影(IA DSA)。

人工摄影减去背景信号的减影技术可以用常规(非数字化)的动脉造影方法完成。不论是照片减影

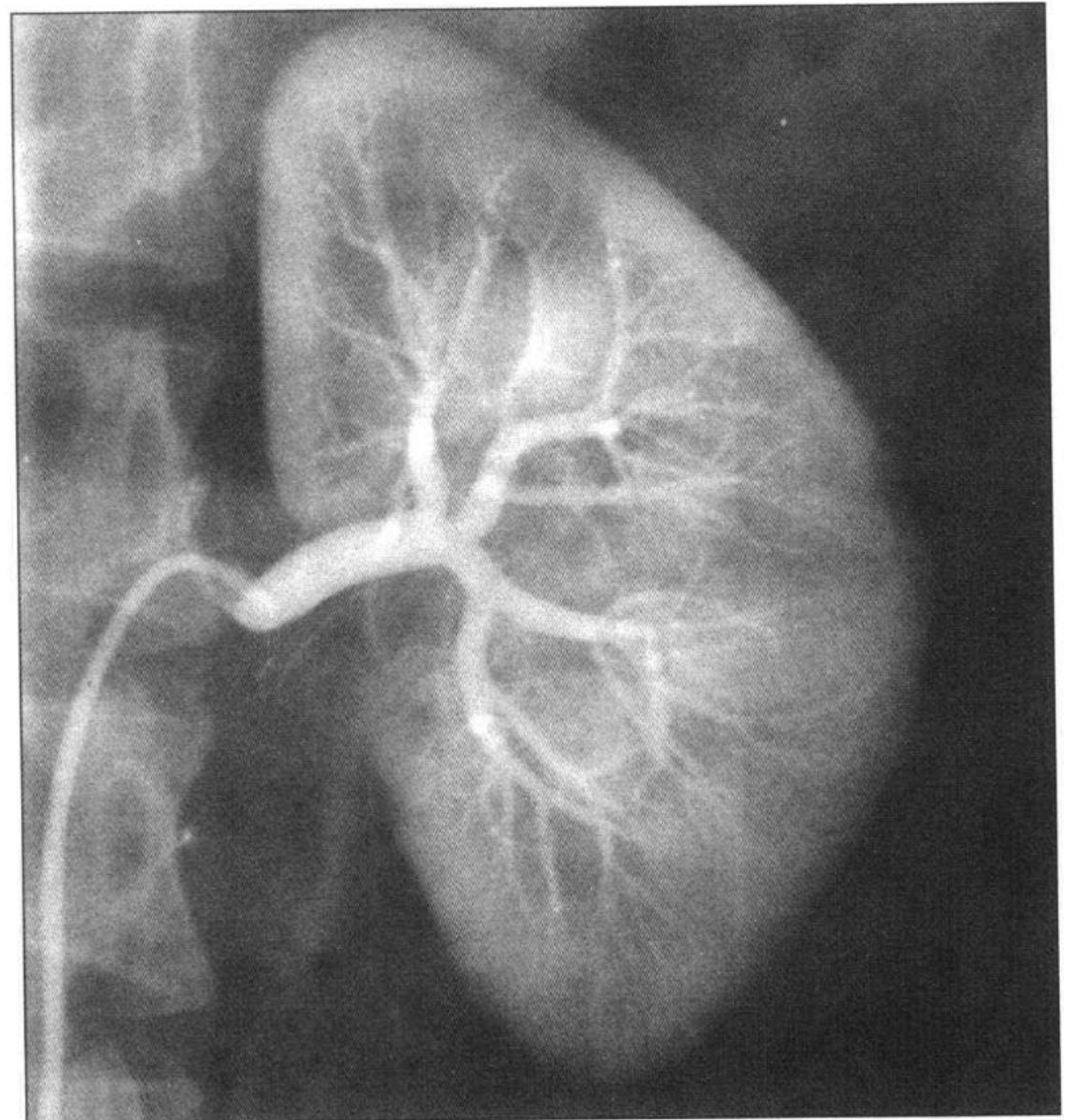
法还是数字减影法,都是在需要了解精细的动脉细节的情况下采用的。它与未进行减影的照片相反,动脉显示成与白底相反的黑色,因此更易于辨认。有时需要不同的摄影投照方向以更好地显示血管。例如,在主动脉弓,前后位片并不能清楚地显示从主动脉起源的各血管,因为它们相互靠得很近,并可能重叠在一起。而左前斜位可以显示主动脉弓,并可以很好地显示头臂干、左颈总动脉和锁骨下动脉的起源。除非特别注明,本书中的动脉造影通常采用前后位片。

静脉可以通过与动脉相同的办法来显影,例如直接穿刺并置入导管,大多数是经过股静脉。上、下肢静脉可以通过18号或20号针穿刺外周静脉(如足背、手背或肘窝静脉),并注入对比剂而显影。另外,如果动脉注射对比剂显影持续一段时间,动脉相、毛细血管相、静脉相就可以记录,而静脉解剖就可看见。这在显示门静脉系统时特别有用,无需直接经脾或经肝穿刺。

有关动脉穿刺、插管和显像技术,以及在动脉造影中所需的仪器等相关信息需参阅有关书籍。



主动脉弓造影减影(见第119页图b)。



肾动脉造影(见第154页图a)。

计算机 X 线断层扫描 (CT)

平片放射技术的局限性在于只能以二维图像来代表三维的结构。其成像原理是线性 X 线束在机体组织的不同衰减而产生的。

计算机断层扫描获取一系列不同角度的、由计算机处理的、特定层厚的断层 X 线图像。CT 图像由像素构成。X 线投照后所有组织都有一个平均衰减值,这个值即构成像素。该值与水的衰减值相比较并在一个范围内显示,即 HOUNSFIELD 值,范围为 0~2000 HU。设定水的衰减值为 0 HU,则空气为-1000 HU,脂肪接近-100 HU,软组织为 20~70 HU,骨组织通常大于 400 HU。

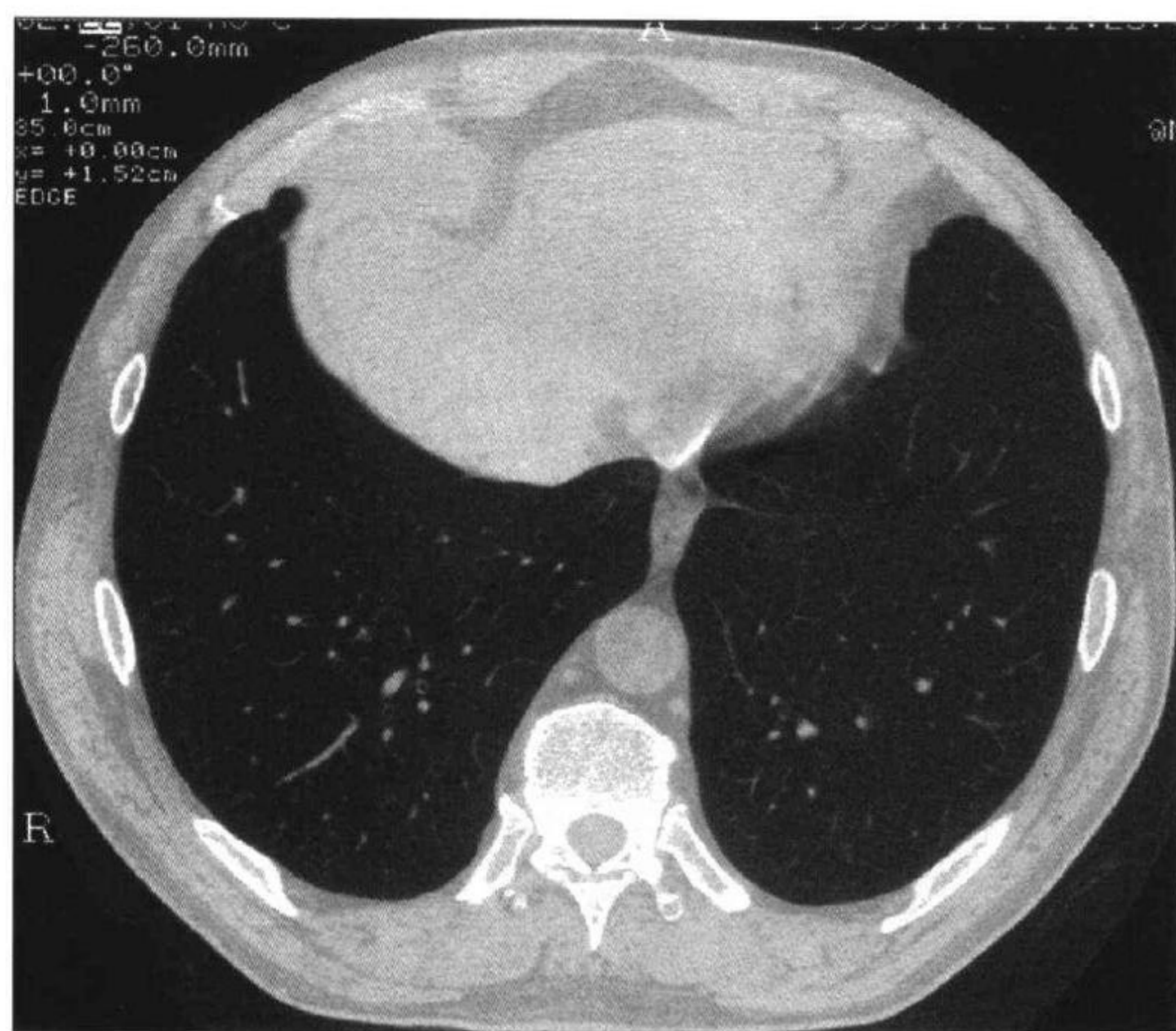
现代多层螺旋 CT 可以在毫秒级获得图像,并可以在 20~30 秒内获得从头到脚整个身体的图像。这样的快速扫描频率可以允许在注入对比剂后显示静脉、动脉在不同的时间内的动态影像。该技术将在本书腹部 CT 的章节(第 126~130 页)中阐述。同一病人,可在动脉相、静脉相内摄影以获取全部血管的影像。

将数码图像储存在档案室并作为一种电子存档记录,如今正逐渐在全世界推广使用,即图像编档和

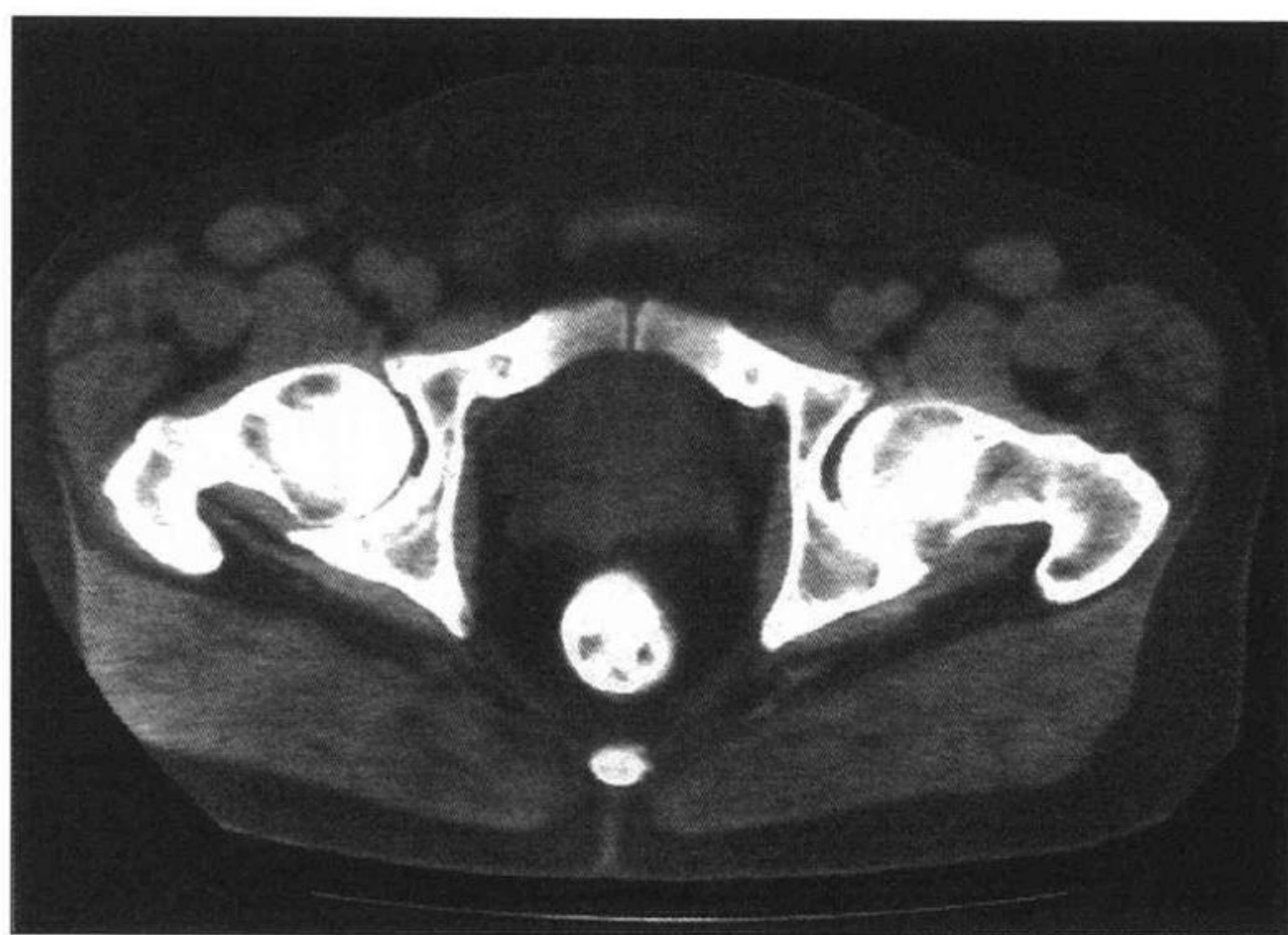
通信系统 (Picture Archiving and Communication System, PACS)。PACS 可允许通过电子网络进行图像的交互传输,因此这些图像(报告)可以远程浏览,例如在病房或在另一家医院也可读取到需要的图像信息。储存病人全部信息的电子病历系统也正迅速发展,并因其在数据处理上有显著的提高而逐渐被采纳。

在脑、脊柱、肌肉骨骼系统的 CT 检查中,不需要特别的准备。胸部、腹部和盆部的检查则通常需要静脉注入含碘的对比剂以加强动静脉显影,并在更大的范围内明确它们之间的关系。在腹部、盆部对肠行 CT 造影检查时,常常可以在检查前 24 小时口服水溶性对比剂以显示结肠,并在检查前 60 分钟内再口服一次对比剂,以显示胃和小肠。有时,对比剂直接注入直肠内可以显示远端大肠。

通常,病人取仰卧位,图像为横断面或轴面。现代 CT 扫描可以到 25° 成角,这对于脊柱成像尤为有用。有时为了检查头颅或颌面部异常,需要冠状位片,此时病人需俯卧位、颈后伸,使 CT 头架成合适的角度。



肺,轴位 CT (见第 103 页图 f)。



男性盆部,轴位 CT (见第 162 页图 c)。

磁共振成像 (MRI)

MRI 是通过一个强磁场和射频脉冲 (RF) 能量变化的作用, 观察水和脂肪中氢质子的分布和运动。

氢核中的回旋质子可以看作是一个小磁铁, 有北极和南极。在没有外加静磁场的情况下, 体内所有氢质子的运动是无序自旋的。一旦人体被置入静磁场中, 自旋的氢质子则沿着外加静磁场相同或相反的方向旋转。氢质子自旋部分偏离外加磁场方向, 形成磁化矢量。

RF 能量通常可引起氢质子产生与静磁场方向相垂直的磁共振, 结果是使质子旋转或翻转以偏转静磁场。旋转的幅度取决于氢质子所吸收的射频脉冲能量大小。一旦射频脉冲停止, 氢质子便在静磁场的作用下恢复到原来的位置, 这个过程称为弛豫。氢质子释放已吸收的射频脉冲能量, 该能量可经 MRI 机接受线圈的检测, 并使数字化及放大, 最后经数组处理器空间编码。产生的图像可以在操作者的显示器上显示, 并在硬盘上记录或转到光盘等储存。

MRI 系统可根据产生的磁场强度来分级。高场强系统的磁场强度通常在 1~2 T, 中场强为 0.35~0.5 T, 低场强往往不到 0.2 T。中高场强系统采用超导磁场, 其中铜线圈保持在超导状态 (-269°C), 并设在氦池中以绝缘。电磁体适用于有电阻的系统, 限于产热因素为 0.35 T。低场强系统采用永久性磁铁, 限制性场强接近 0.2 T。

MRI 不会产生目前已知的生物学危害, 但安装了各种心脏起搏器或植入电子引导装置的病人不能进行 MRI 检查。其他禁忌证包括装有铁磁性夹用于颅内动脉瘤的病人、安装心脏瓣膜替代物者或眼内有金属异物者。通常, 有颅外血管夹或安装骨科假体的病人是安

全的, 但容易造成伪像。较松的金属部件必须取出。

MRI 检查的准备较简单, 病人穿无金属的衣物, 必须准确回答有关安全的提问。在腹部或盆部检查时, 通常须服用减少胃肠蠕动的药物 (如非消化道给予丁溴东莨菪碱或胰高血糖素)。胸、腹部检查时, 需要使用专门软件以抵消呼吸运动的影响。心电门控技术用于心脏研究。

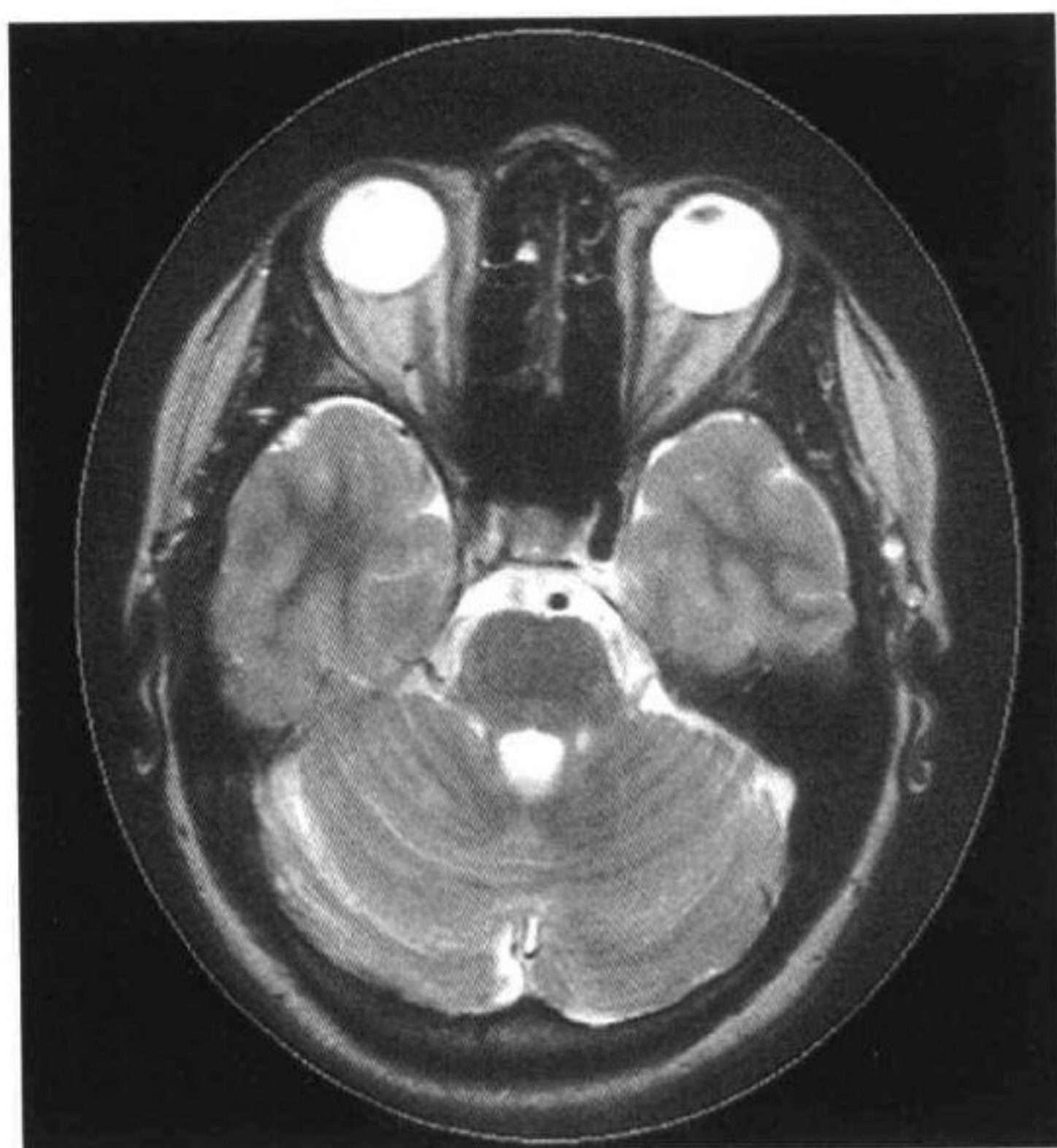
MRI 可以在矩形或非矩形平面内获得一个脉冲序列图像, 每一个脉冲序列可以提供不同的图像对比, 静脉应用对比剂 (钆复合物) 可以增强肿块、炎症、血管异常的显影。

磁共振血管造影 (MRA)

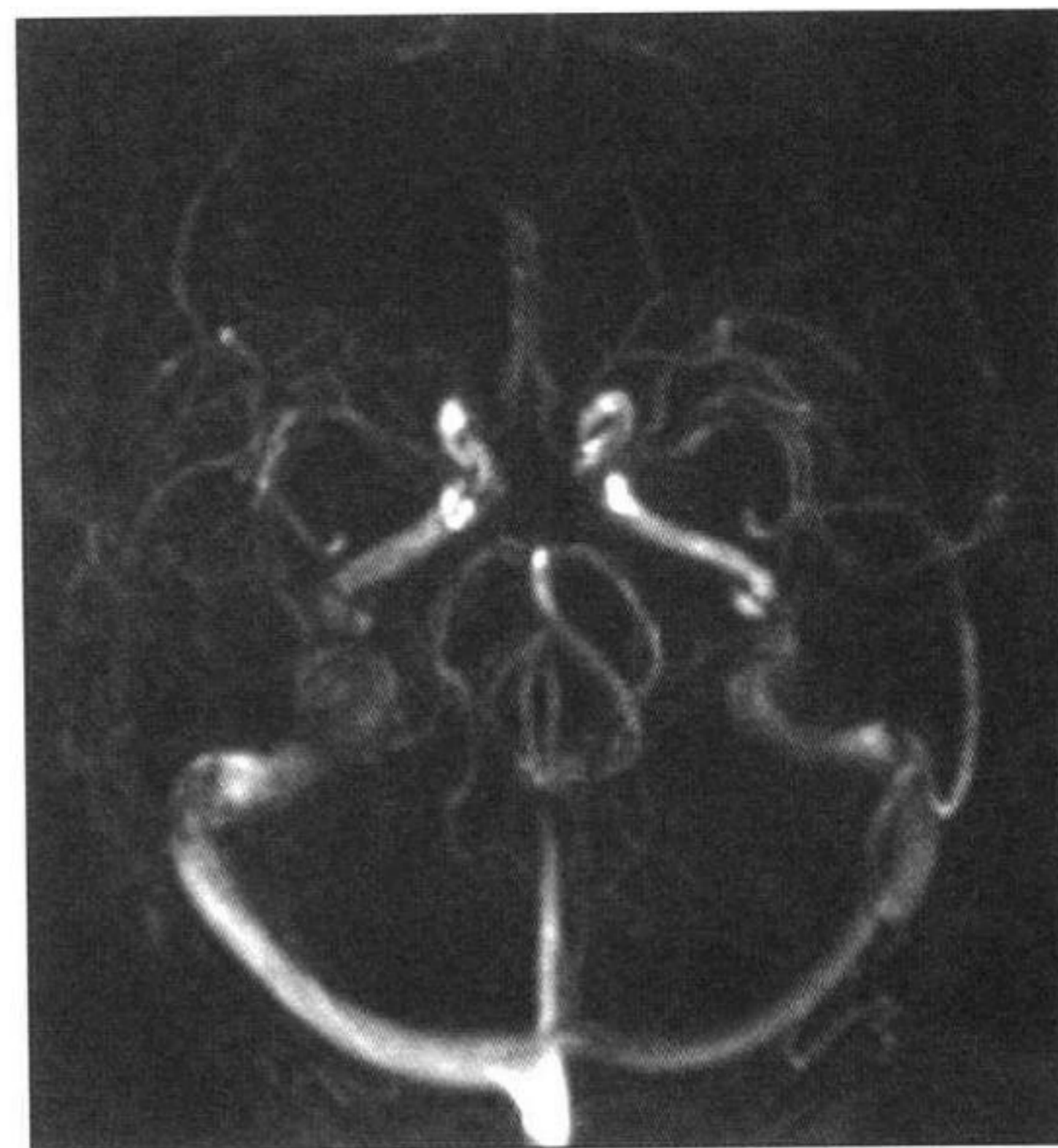
血管的显示取决于使用的脉冲序列。用自旋回波序列时, 从激励质子到收到回复信号 (回波时间) 需消耗一定时间, 此时受激励的血液已流出采集区域, 血流被未激励的不产生信号的血液替代, 从而产生血液流空现象。

梯度回波序列采用短的回波 - 采集时间和更频繁的激励次数。这样, 静止组织内的质子不完全弛豫, 产生的信号减弱。而进入该层面的质子完全弛豫产生高信号 (时间飞跃效应), 这样血管显示为黑色背景中的亮信号。图像可以进行三维重建, 可从多角度观察。

另一种磁共振血管造影技术采用附加的磁化区域以编码血管中运动质子的相位。对血流的完全充分的评价需三维采集, 每次由 3 个成直角的梯度之一编码。这就是所谓的相位对比法磁共振血管造影, 其相位差可以被量化, 用以测算血流速度。



脑, 轴位 MRI (见第 38 页图 b)。



Willis 环, 脑静脉的磁共振血管造影, 轴位 (见第 37 页图 b)。

超声波扫描

超声波图像与其他图像不同，它不依靠电磁波，而是一种高频纵向声波，它们与生物组织相作用形成声波图。

这种特定频率的声波（诊断范围 3.5~10 MHz）是由压电效应产生的。在超声检查过程中，声波束的产生取决于发射晶体的大小、形状以及共振频率。

当声波穿越组织时，衰减和反射两个主要的效应决定了图像的产生。衰减是由于吸收、反射、折射和散射作用使声波能量损失而产生的。声波束在穿越组织时衰减越大，接收器所接受的信号强度就越低。在接收器内声波的反射产生图像，它依赖于不同组织内的声阻抗。超声波图像系统对软组织内声阻抗的细微变化非常敏感。

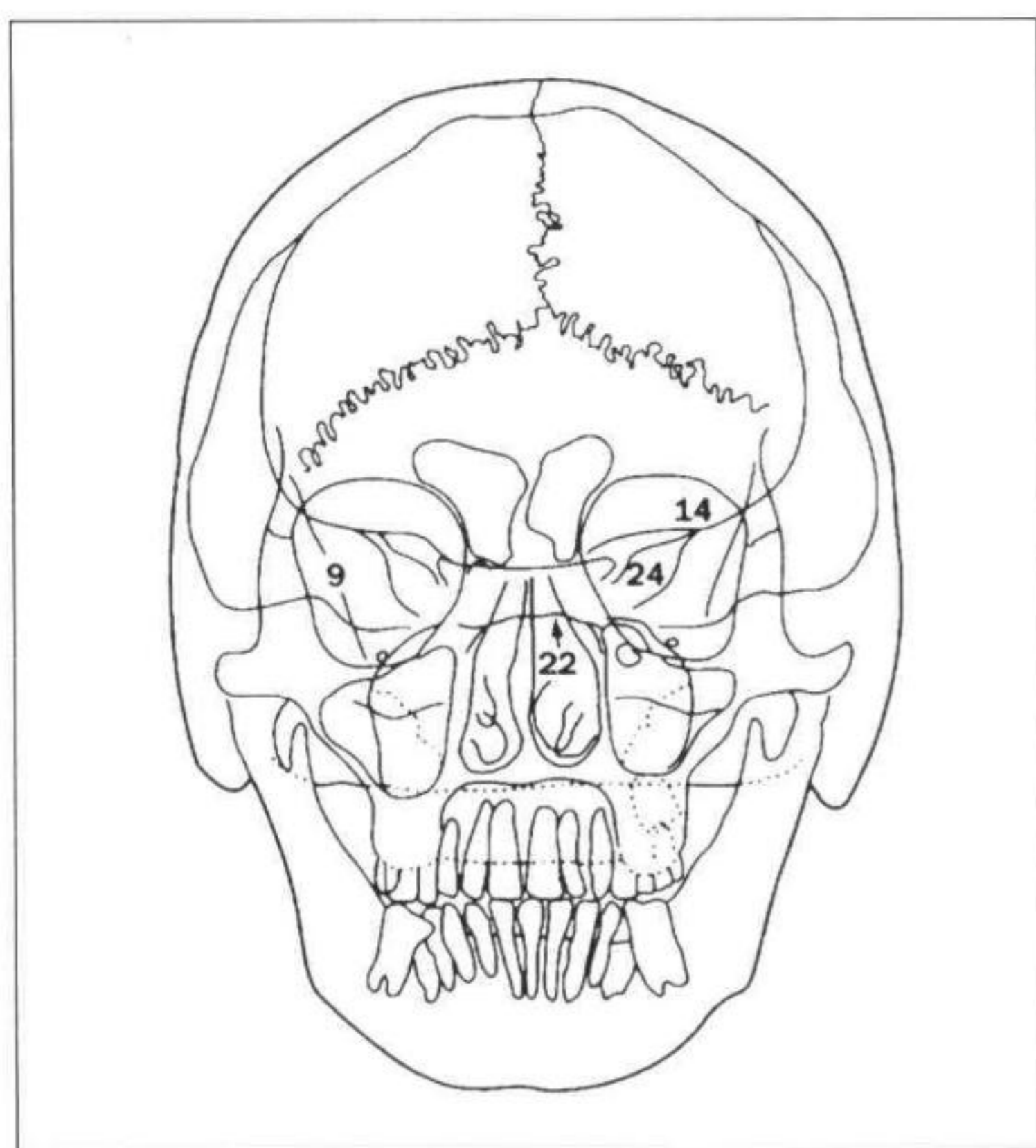
应用这些基本原理，人们研制出一些精密仪器可将脉冲回声转换为实时的二维图像，并可测量血流和流速（采用多普勒原理），这些也促进了多普勒扫描仪的发展与广泛应用。

超声图像的声影和增强效应极为重要。设定通过一定深度的组织的平均衰减值，并给予深浅组织一个均匀的信号强度，当所测量深度组织超过平均的衰减值时，声影就会出现。相反，低于正常衰减的组织将引起所有超过其深度的组织表现为假的高信号强度（增强）。纤维组织、钙化和气体均产生声音阴影，而充满液体的结构常常增强。

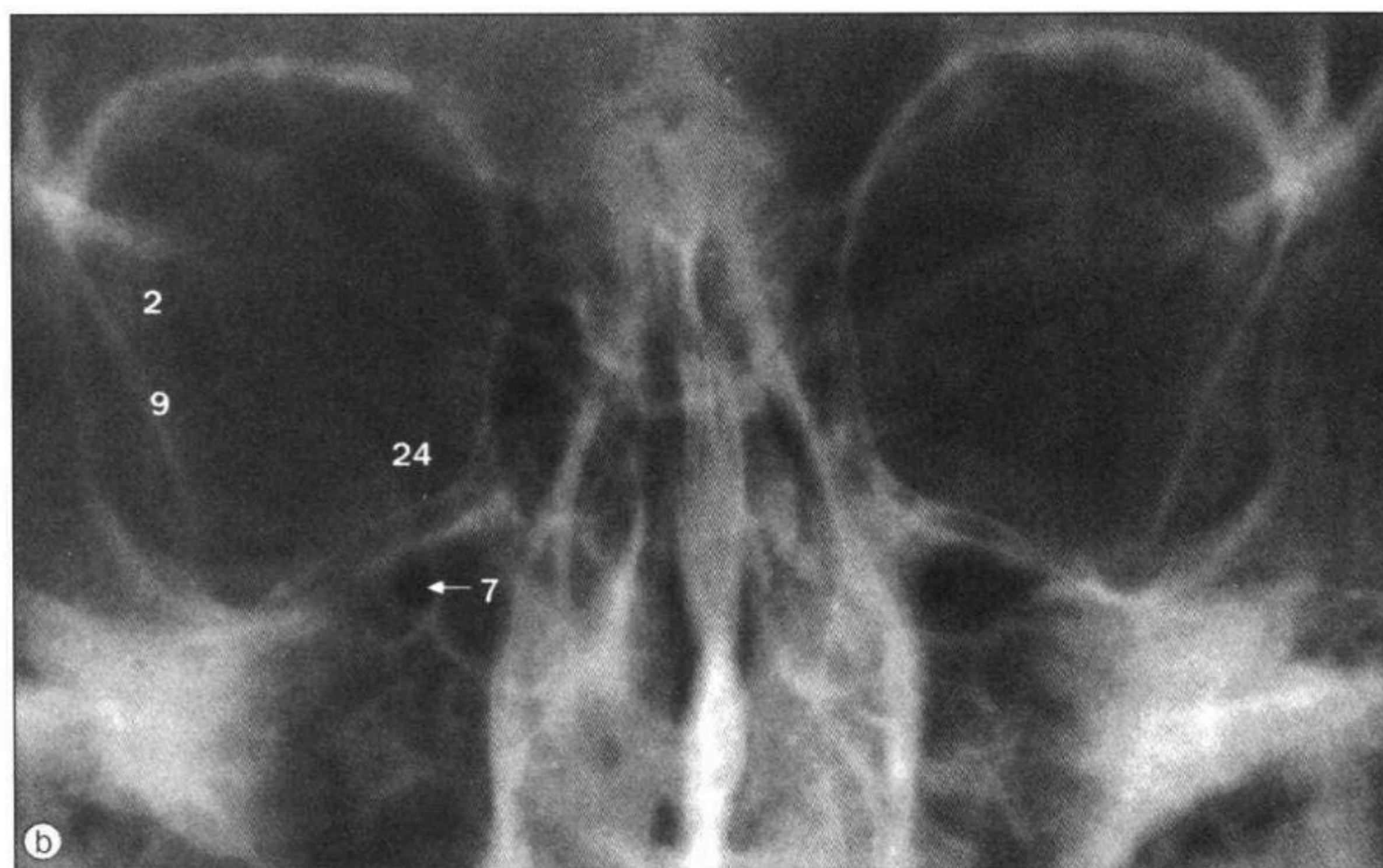
如果选择不同超声探头的频率、定位系统及形状和大小，超声检查可被用于广泛的组织中，从新生儿大脑到手部的软组织。本书只收录一些重要的超声图像，以描述特定的部位，由于实时超声的特性，我们无法进一步显示其图像。从静态超声诠释解剖，比其他检查设备得来的结果更难。因为超声波检查高度依赖操作人员，并得到不同于其他影像检查所获得的有关的组织结构与形态的信息。

2

头、颈和脑

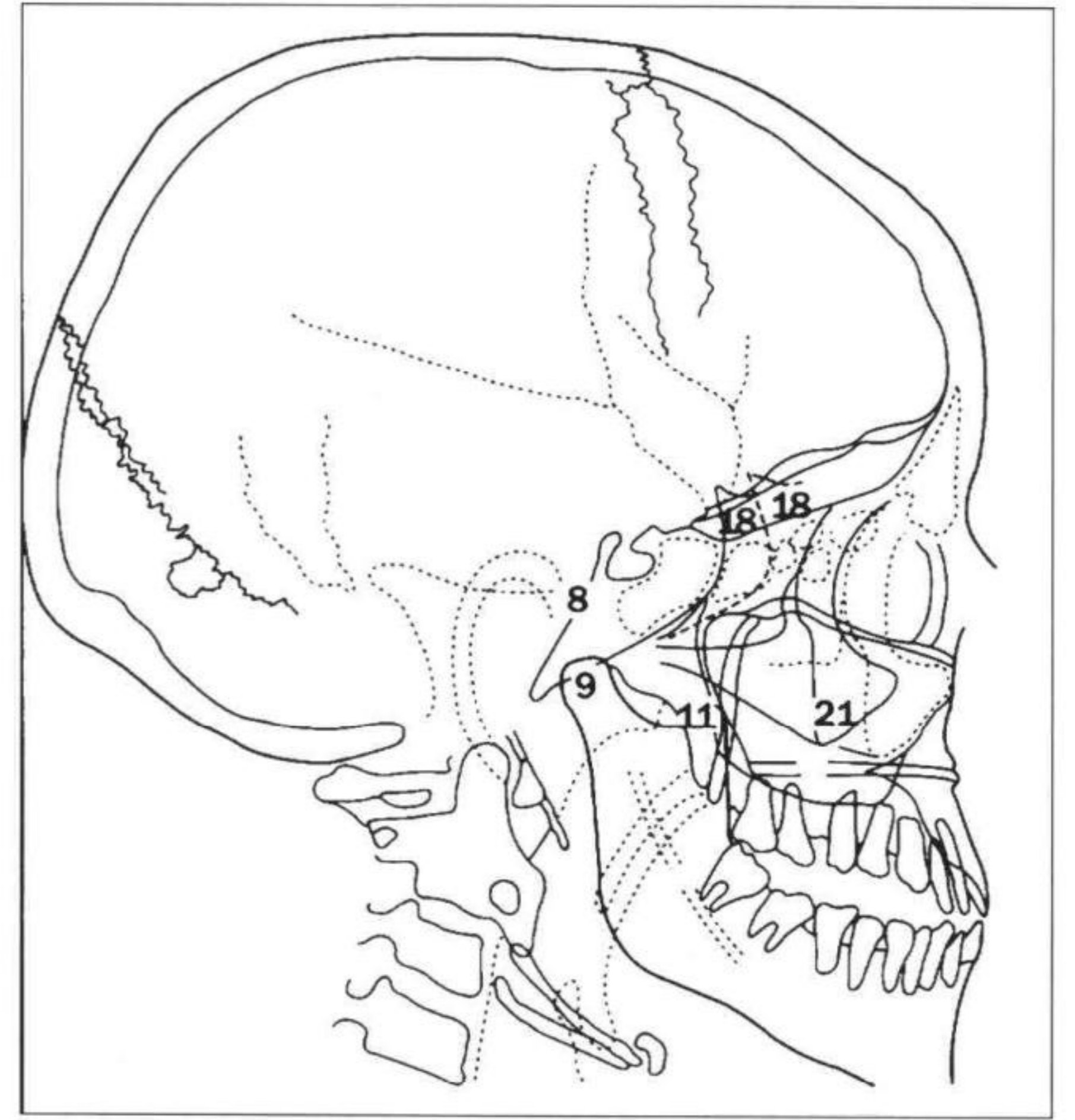
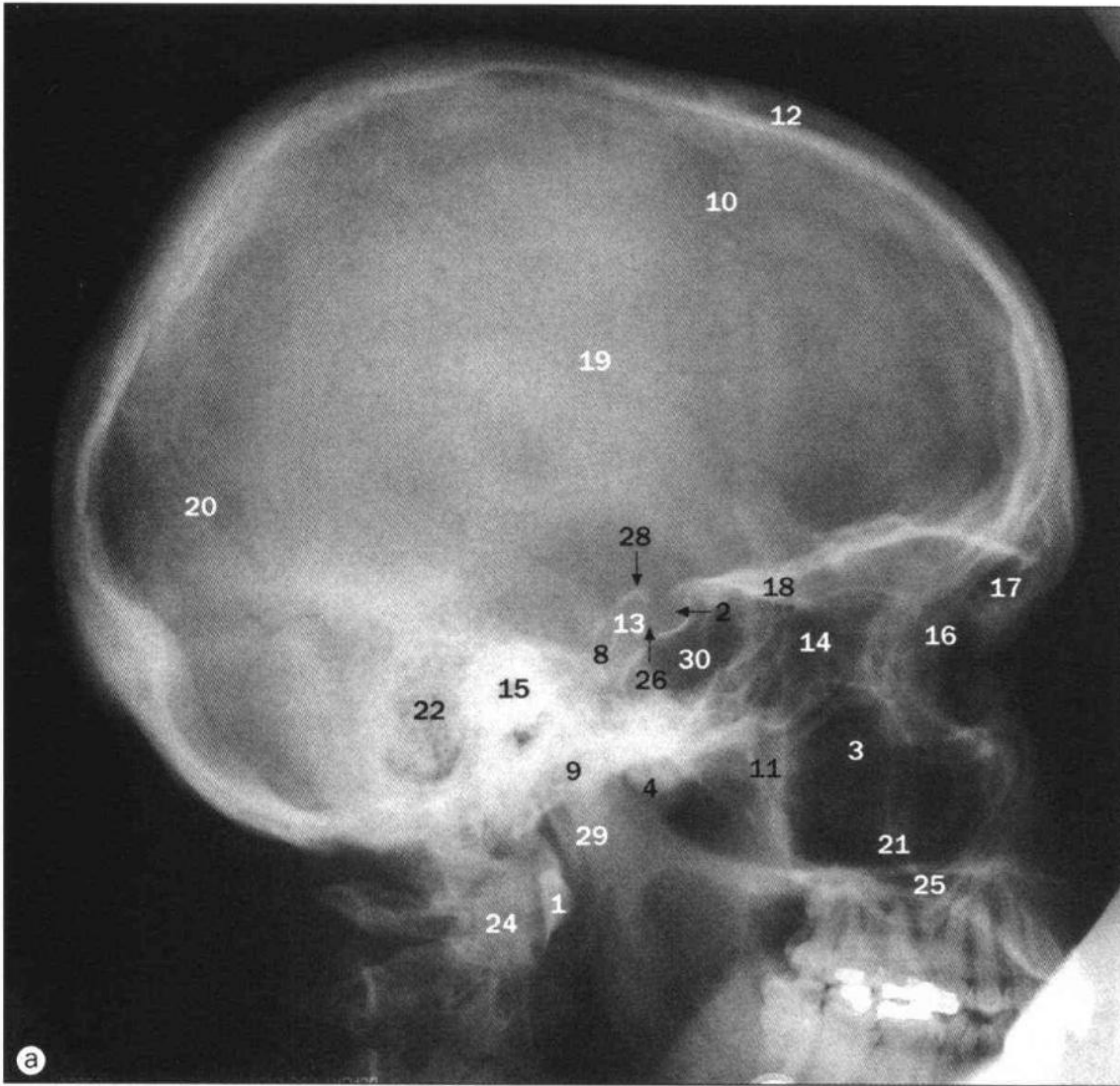


- 1 枕骨基部 basi-occiput
- 2 蝶骨体 body of sphenoid
- 3 鸡冠 crista galli
- 4 筛小房 ethmoidal air cells
- 5 上颌窦底 floor of maxillary sinus (antrum)
- 6 垂体窝底 floor of pituitary fossa
- 7 圆孔 foramen rotundum
- 8 额窦 frontal sinus
- 9 蝶骨大翼 greater wing of sphenoid
- 10 下鼻甲 inferior turbinate
- 11 内耳门 internal acoustic meatus
- 12 人字缝 lambdoid suture
- 13 寰椎 (第1颈椎) 侧块 lateral mass of atlas (first cervical vertebra)
- 14 蝶骨小翼 lesser wing of sphenoid
- 15 乳突 mastoid process
- 16 中鼻甲 middle turbinate
- 17 鼻中隔 nasal septum
- 18 枢椎 (第2颈椎) 齿突 odontoid process (dens) of axis (second cervical vertebra)
- 19 颞骨岩部 petrous part of temporal bone
- 20 下颌支 ramus of mandible
- 21 矢状缝 sagittal suture
- 22 蝶鞍 sella turcica
- 23 蝶窦 sphenoid air sinus
- 24 眶上裂 superior orbital fissure
- 25 蝶骨大翼颞面 temporal surface of greater wing of sphenoid



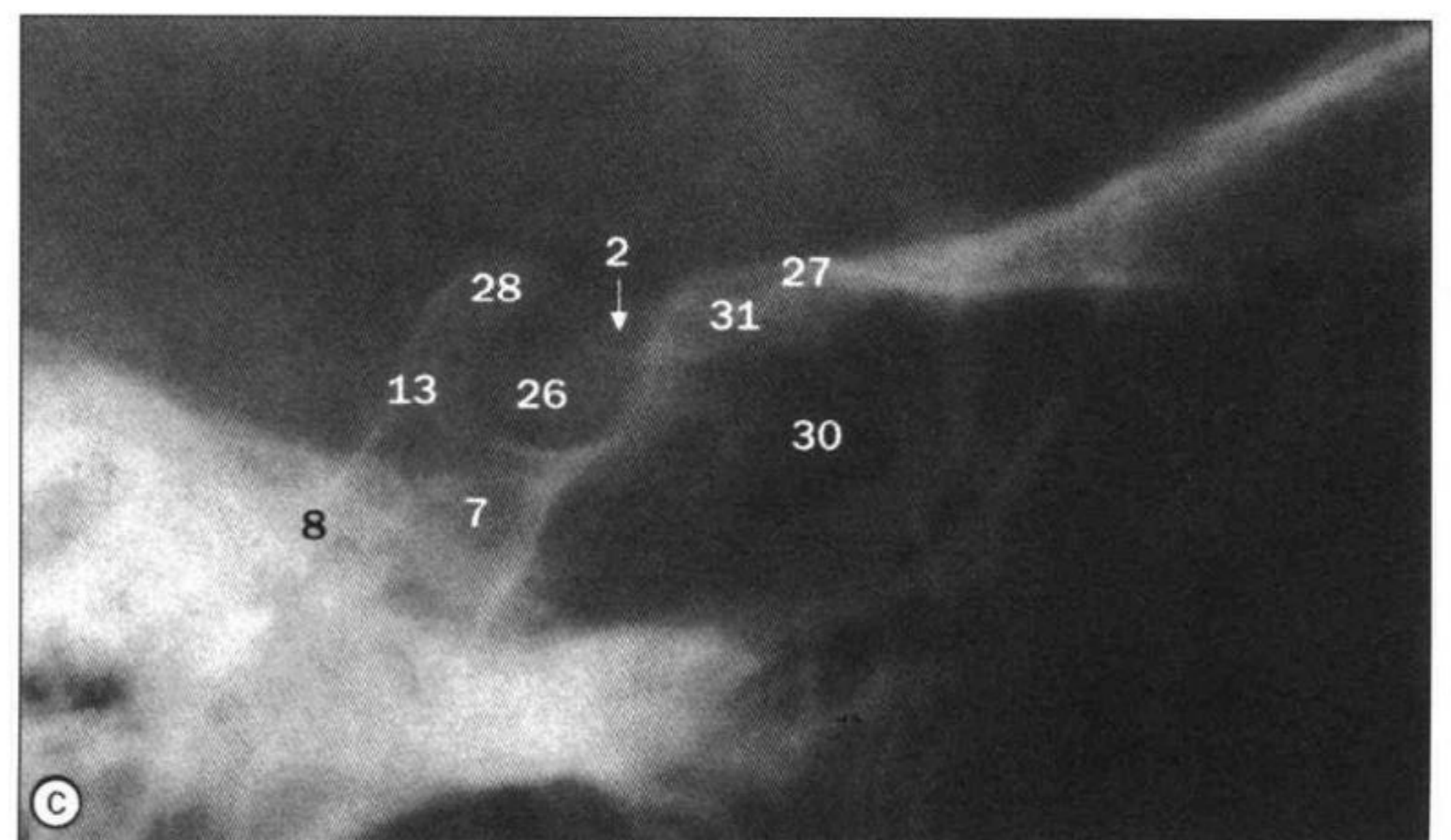
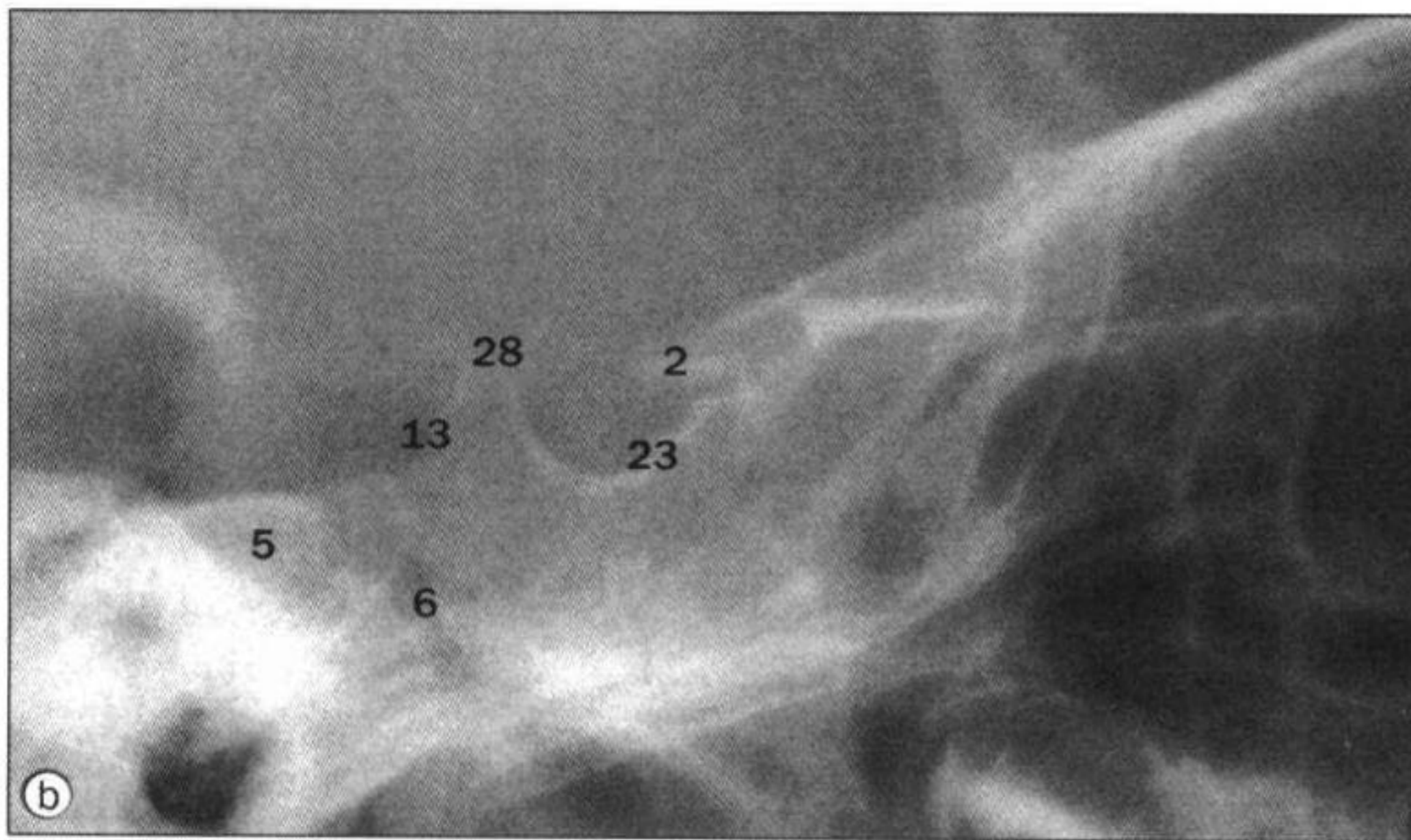
a. 颅, 枕额位 X 线。

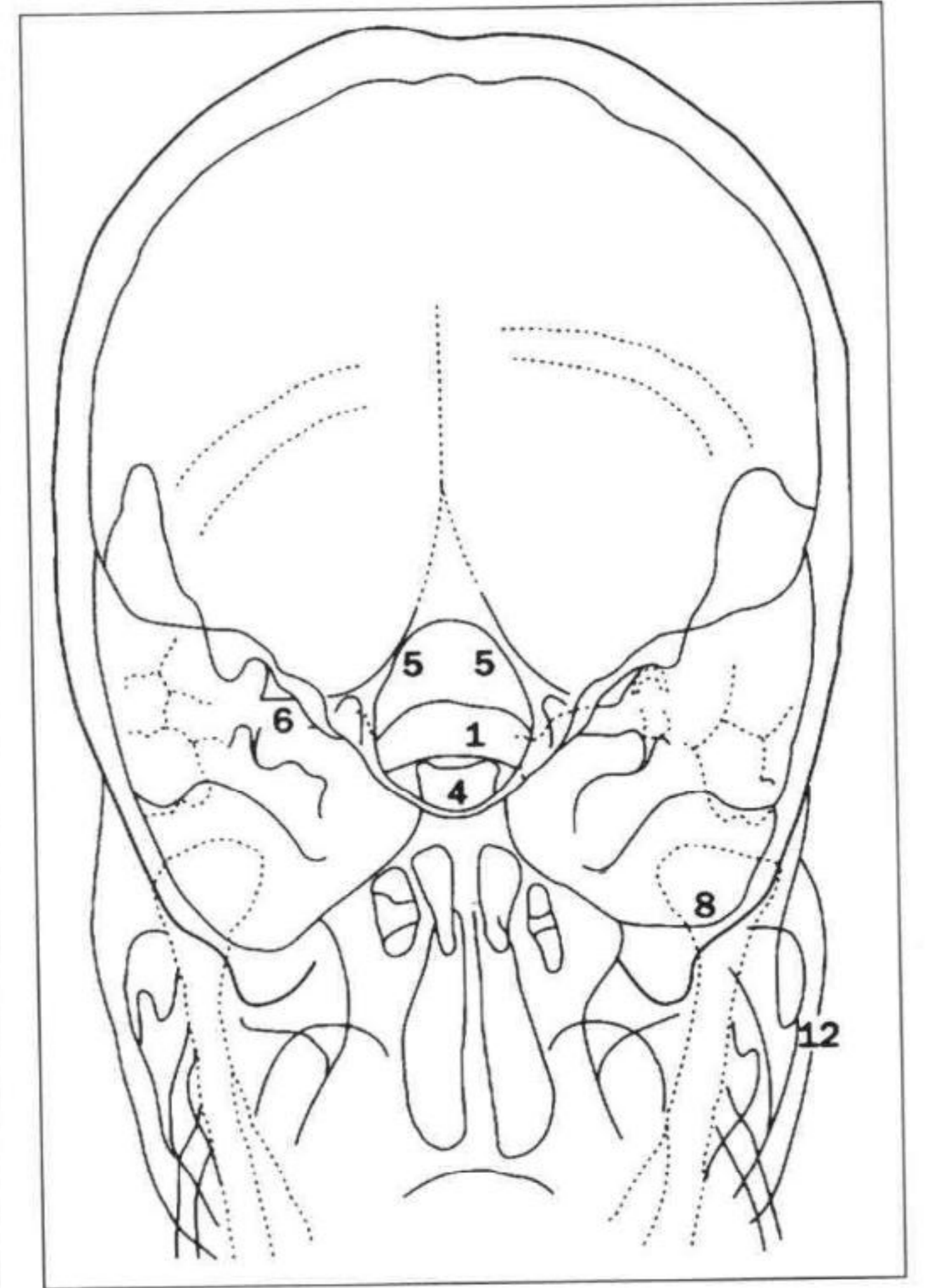
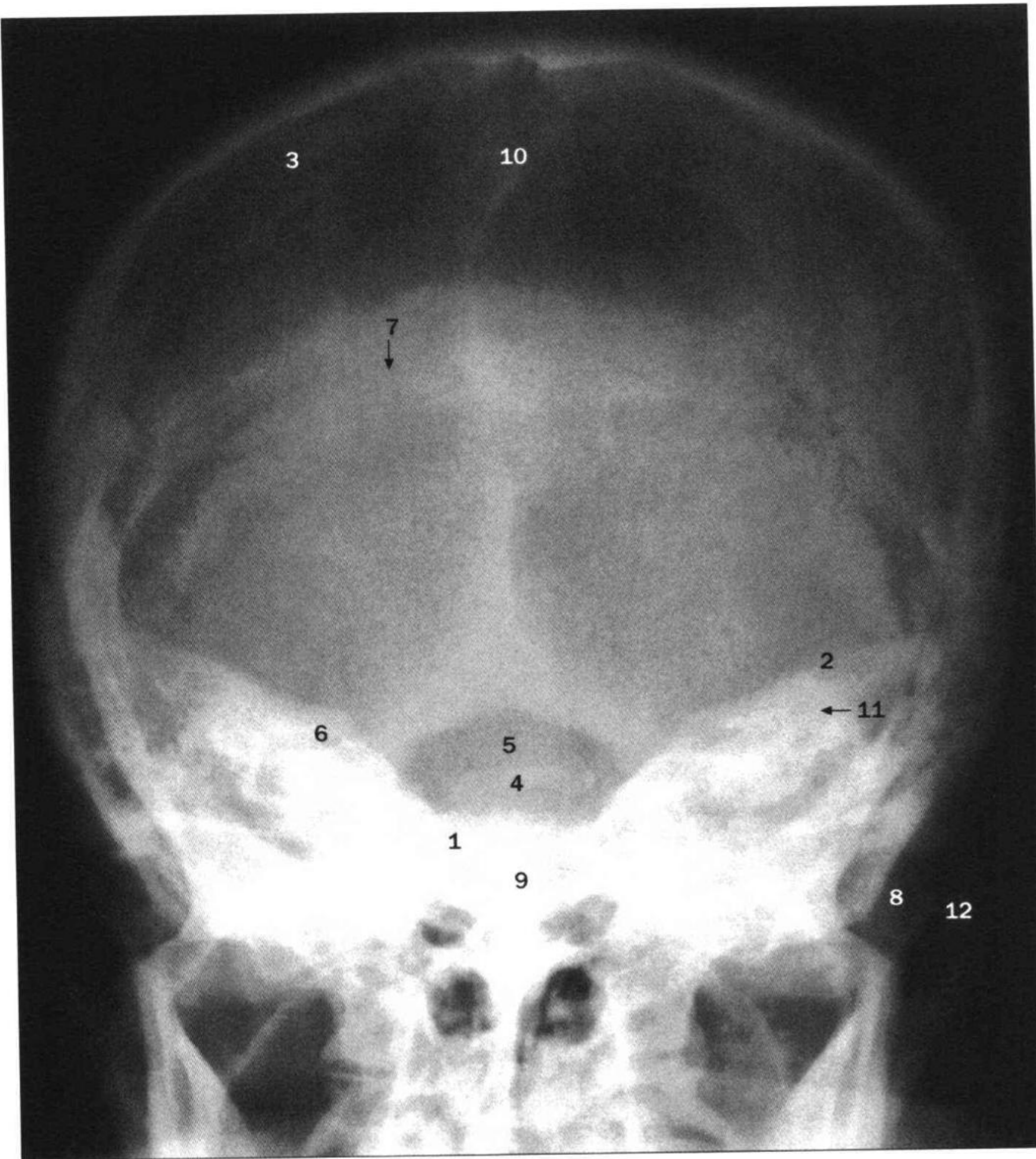
b. 颅, 枕额位 X 线, 显示圆孔。



a. 颅, 侧位 X 线。
 b. 7 岁儿童, 垂体窝 (蝶鞍), 侧位 X 线。
 c. 23 岁妇女, 垂体窝 (蝶鞍), 侧位 X 线。

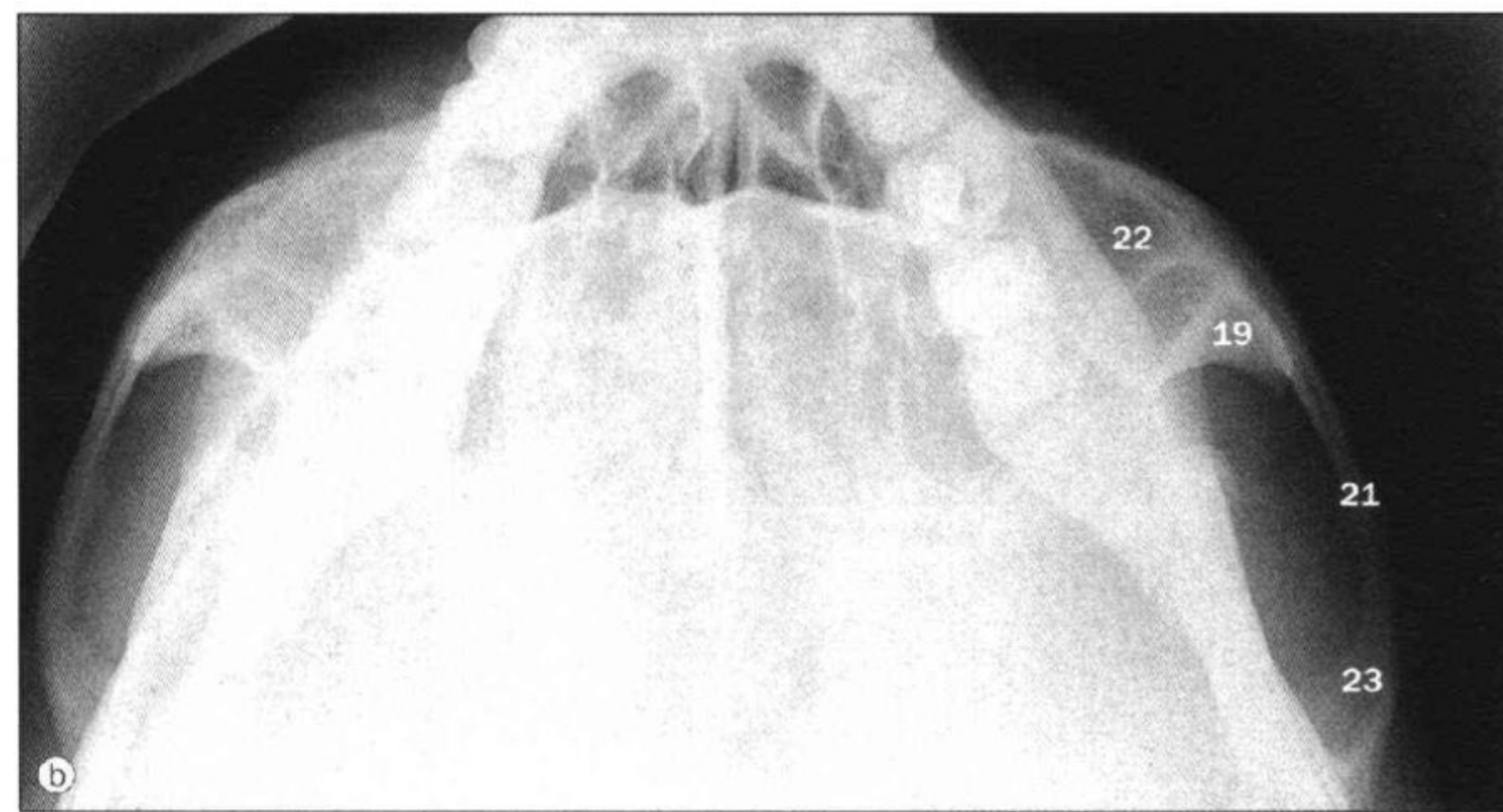
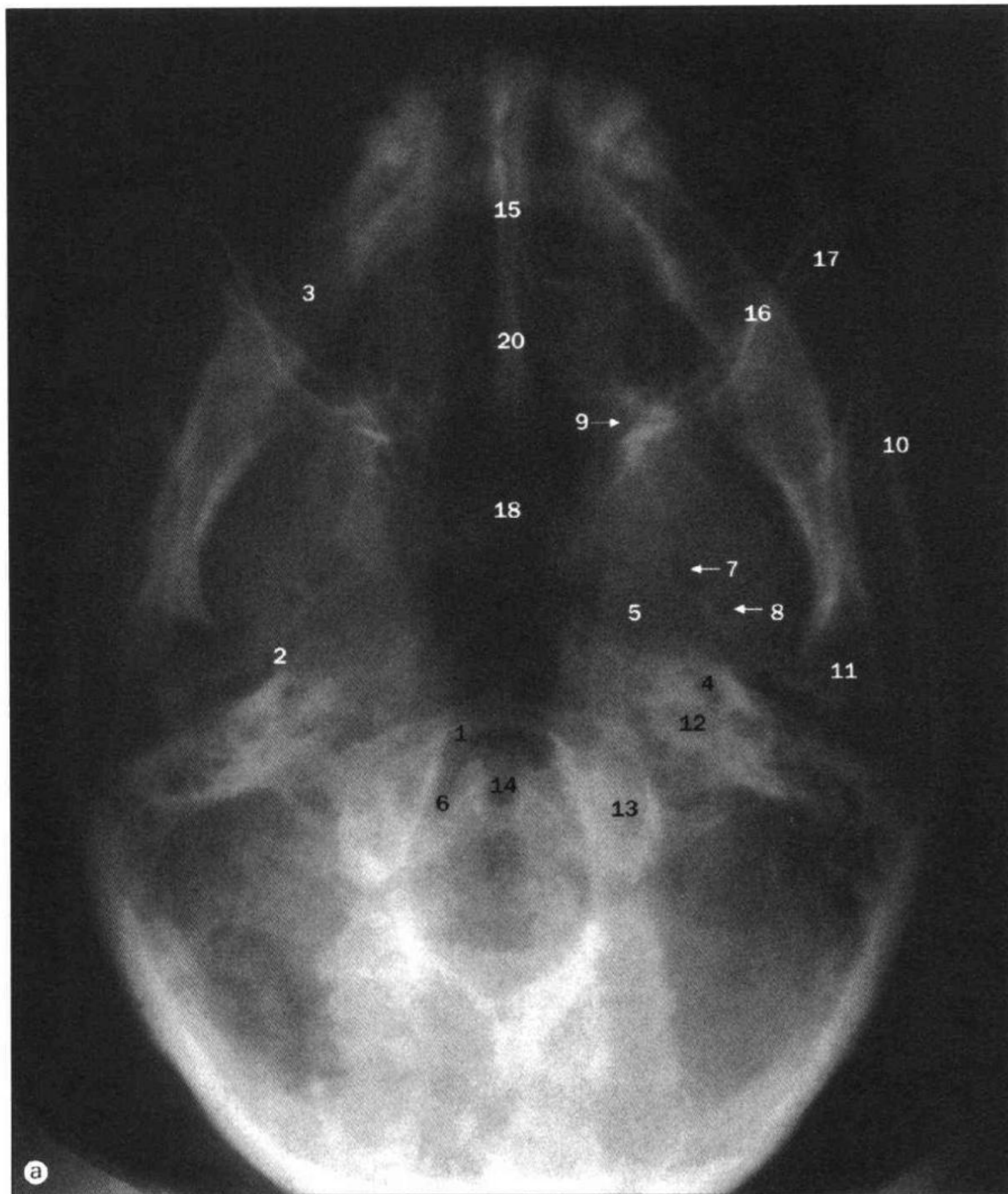
- | | |
|--|---|
| 1 寰椎前弓 anterior arch of atlas (first cervical vertebra) | 16 颧骨额突 frontal process of zygoma |
| 2 前床突 anterior clinoid process | 17 额窦 frontal sinus |
| 3 颧弓 arch of zygoma | 18 蝶骨大翼 greater wing of sphenoid |
| 4 颞下颌关节的关节结节
articular tubercle for temporomandibular joint | 19 脑膜中动脉沟 grooves for middle meningeal vessels |
| 5 枕骨基底部 basilar part of occipital bone | 20 人字缝 lambdoid suture |
| 6 基蝶骨 / 枕骨基底部软骨结合
basisphenoid / basi-occiput synchondrosis | 21 上颌骨颧突 malar process of maxilla |
| 7 颈动脉沟 carotid sulcus | 22 乳突小房 mastoid air cells |
| 8 斜坡 clivus | 23 中床突 middle clinoid process |
| 9 下颌骨髁突 condyle of mandible | 24 枢椎齿突
odontoid process (dens) of axis (second cervical vertebra) |
| 10 冠状缝 coronal suture | 25 上颌骨腭突 palatine process of maxilla |
| 11 下颌骨冠突 coronoid process of mandible | 26 垂体窝 (蝶鞍) pituitary fossa (sella turcica) |
| 12 板障 diploë | 27 蝶骨平面 planum sphenoidale |
| 13 鞍背 dorsum sellae | 28 后床突 posterior clinoid process |
| 14 筛小房 ethmoidal air cells | 29 下颌支 ramus of mandible |
| 15 外耳门 external acoustic meatus | 30 蝶窦 sphenoidal sinus |
| | 31 鞍结节 tuberculum sellae |





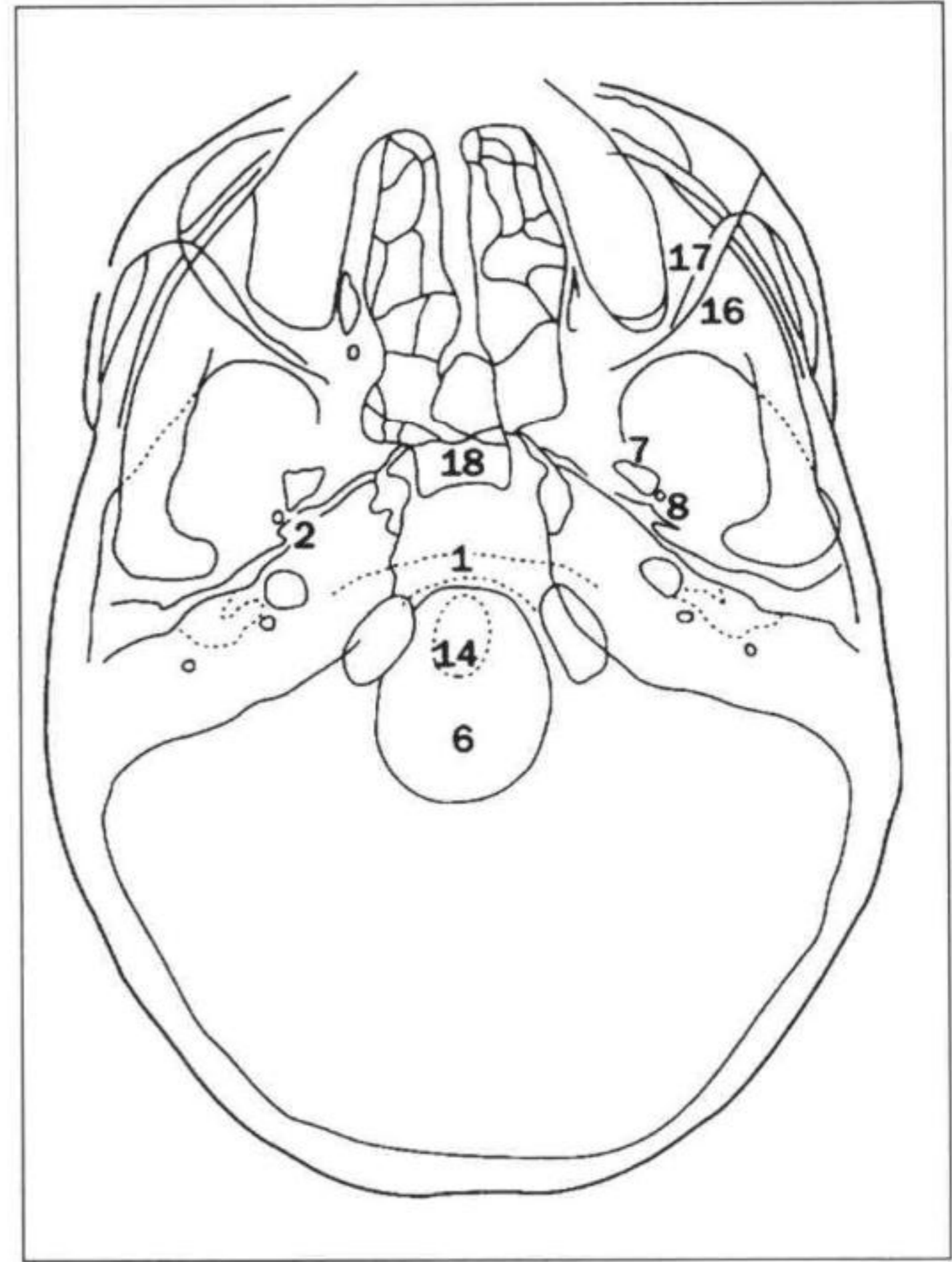
颅, 30°额枕位 (Townes 位) X 线。

- 1 寰椎椎弓 arch of atlas (first cervical vertebra)
- 2 颞骨弓状隆起 arcuate eminence of temporal bone
- 3 冠状缝 coronal suture
- 4 鞍背 dorsum sellae
- 5 枕骨大孔 foramen magnum
- 6 内耳门 internal acoustic meatus
- 7 人字缝 lambdoid suture
- 8 下颌骨髁突 mandibular condyle
- 9 枢椎齿突 odontoid process (dens) of axis (second cervical vertebra)
- 10 矢状缝 sagittal suture
- 11 上半规管 superior semicircular canal
- 12 颧弓 zygomatic arch

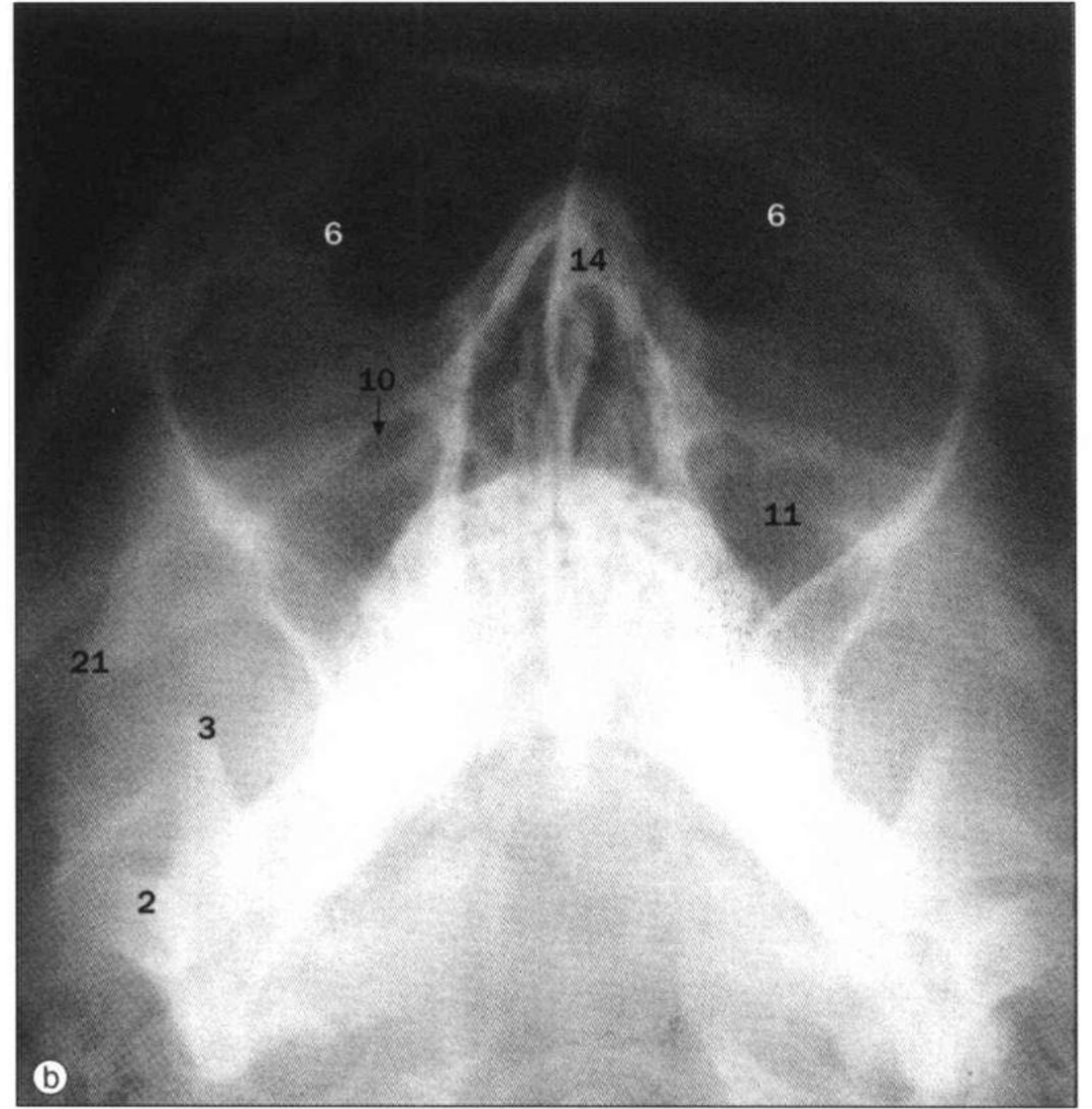
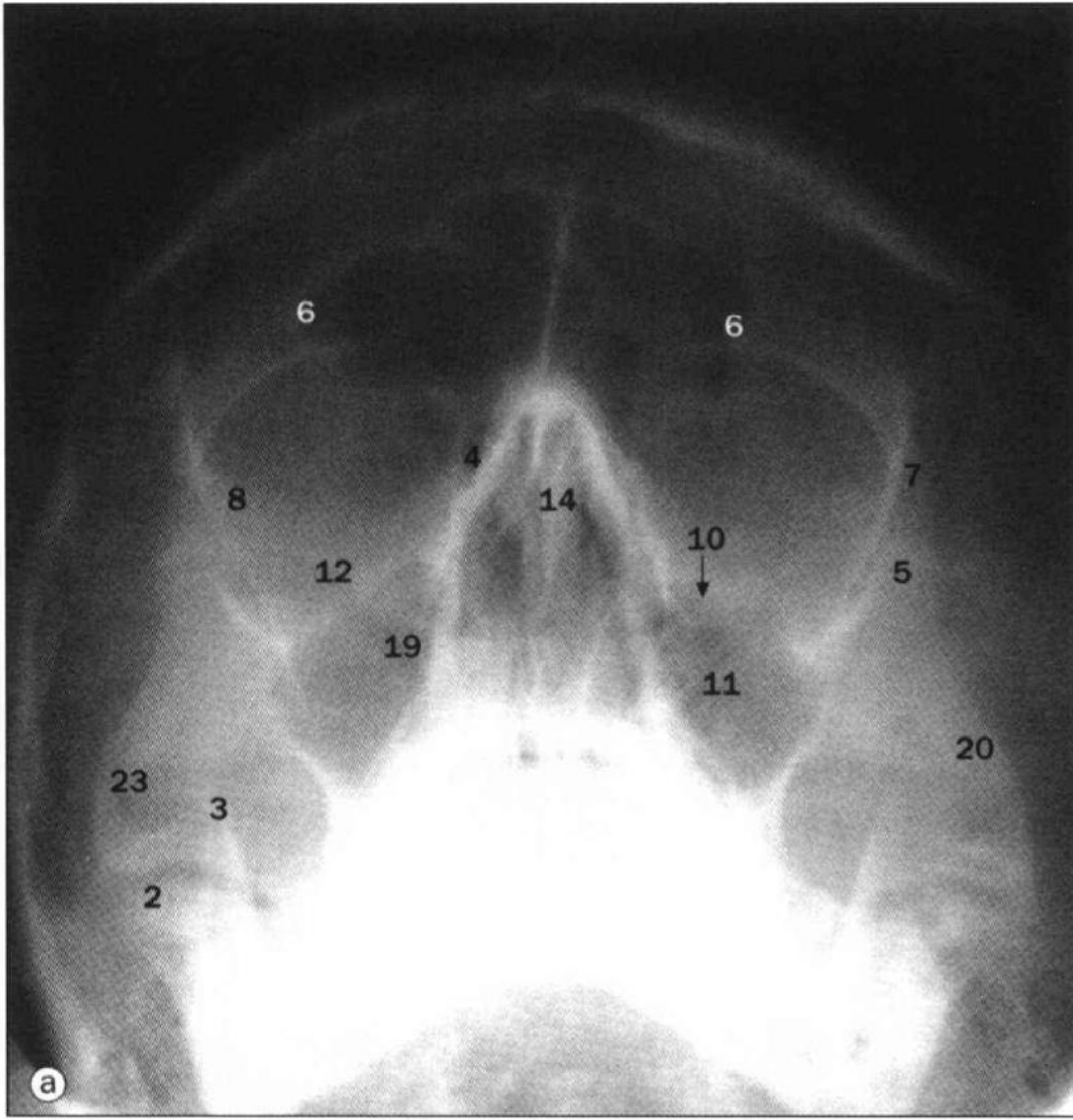


a. 颅，颞下顶位 X 线。

b. 颅，颞下顶位 X 线，附带显示颧弓。

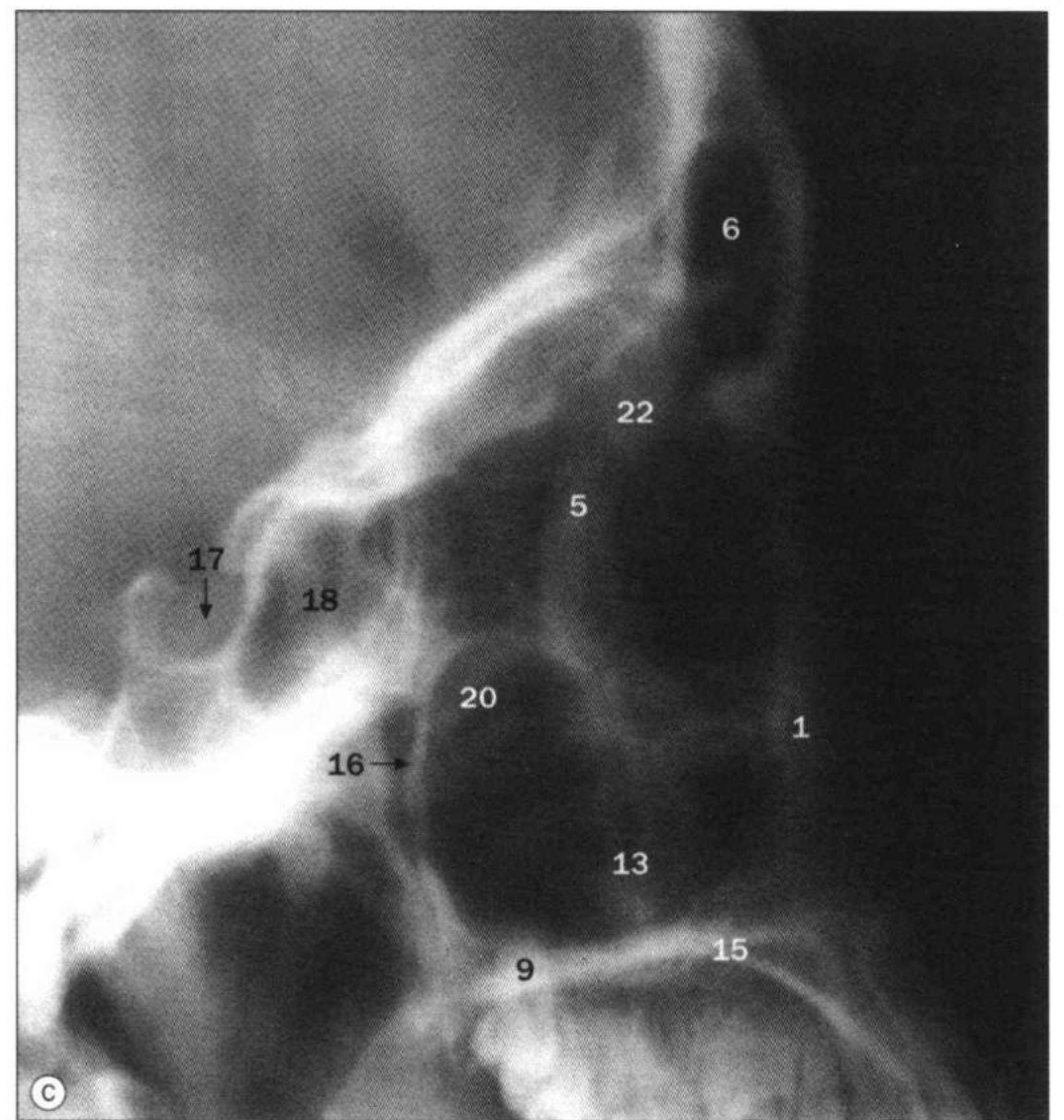


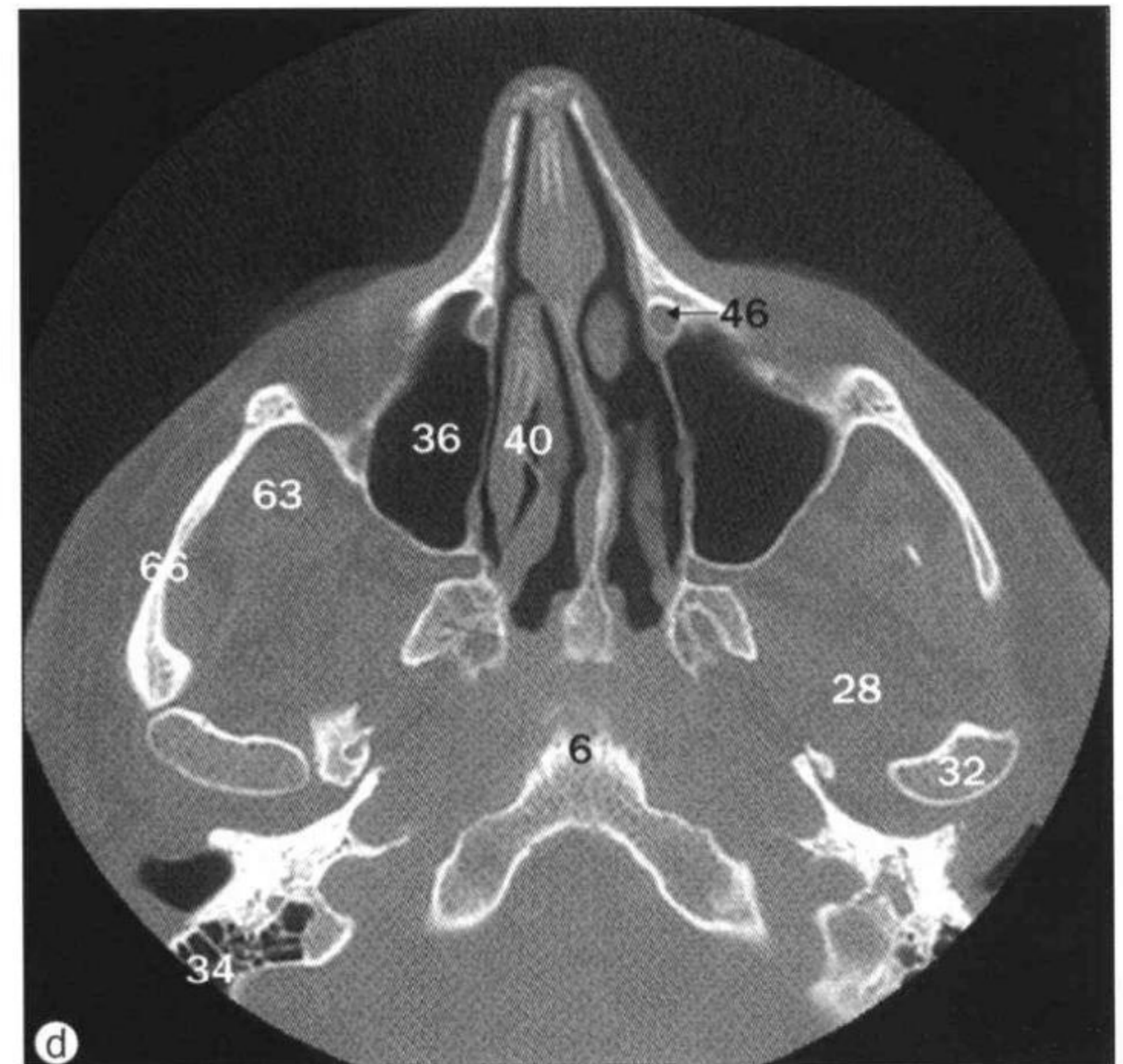
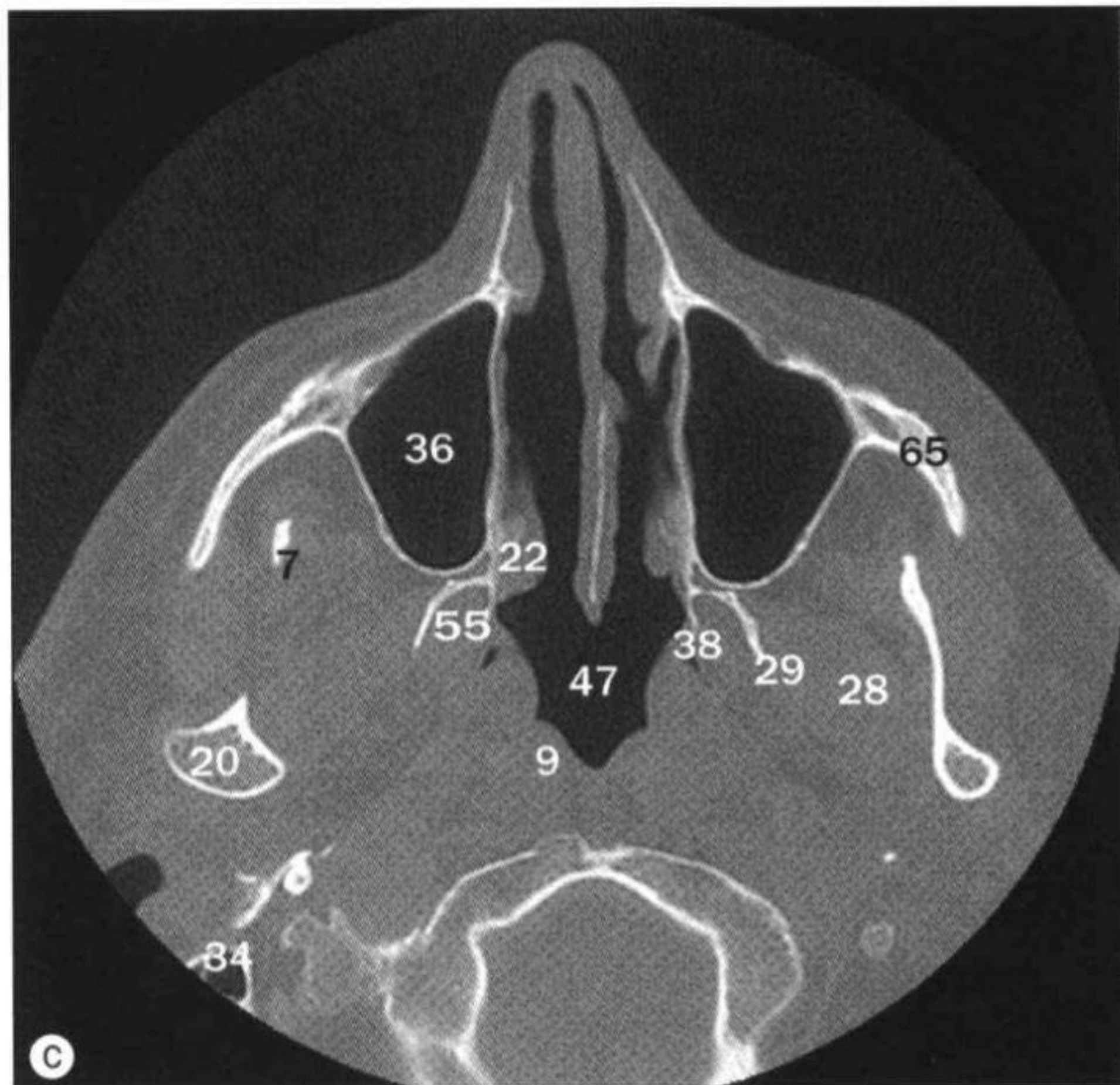
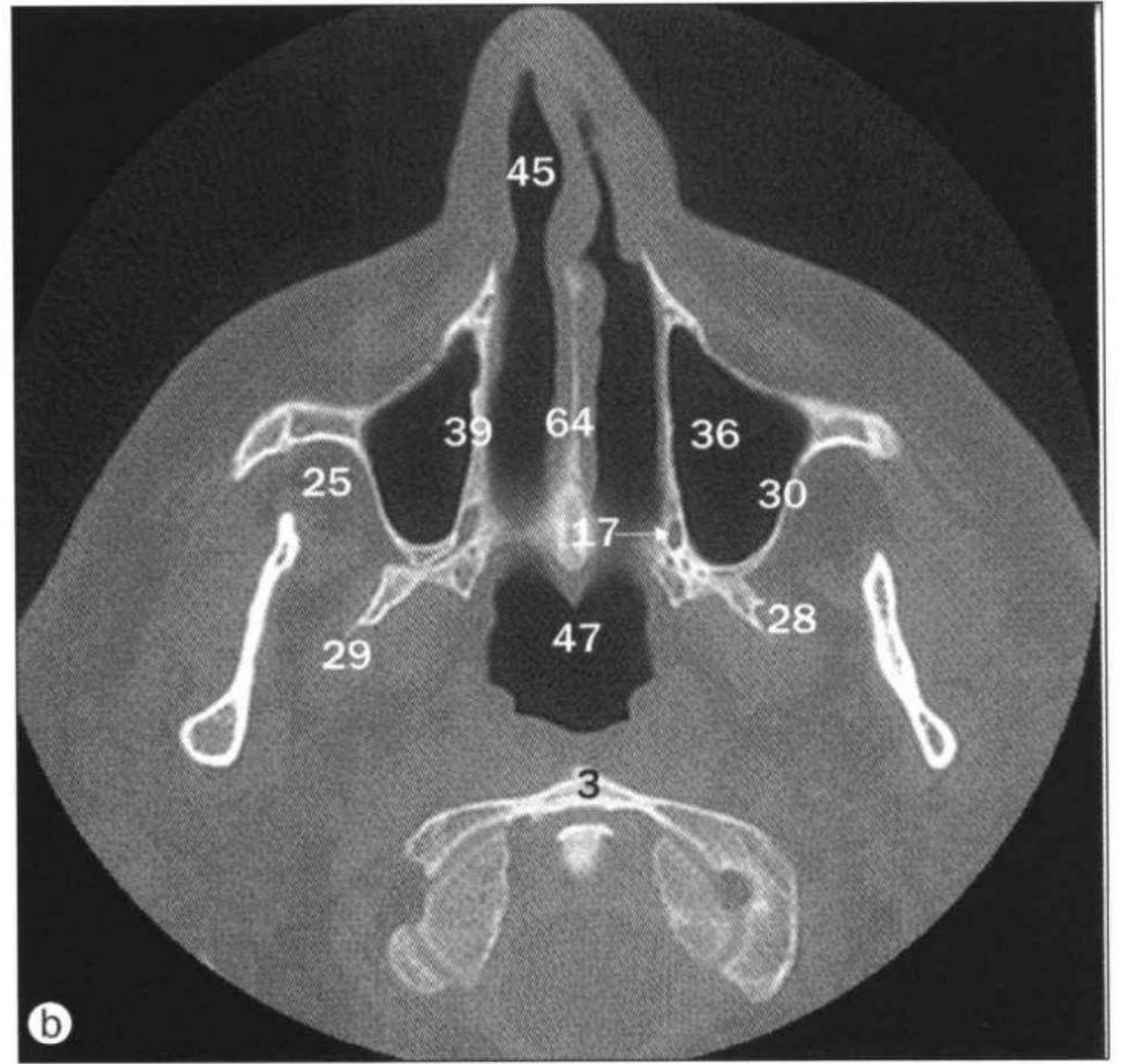
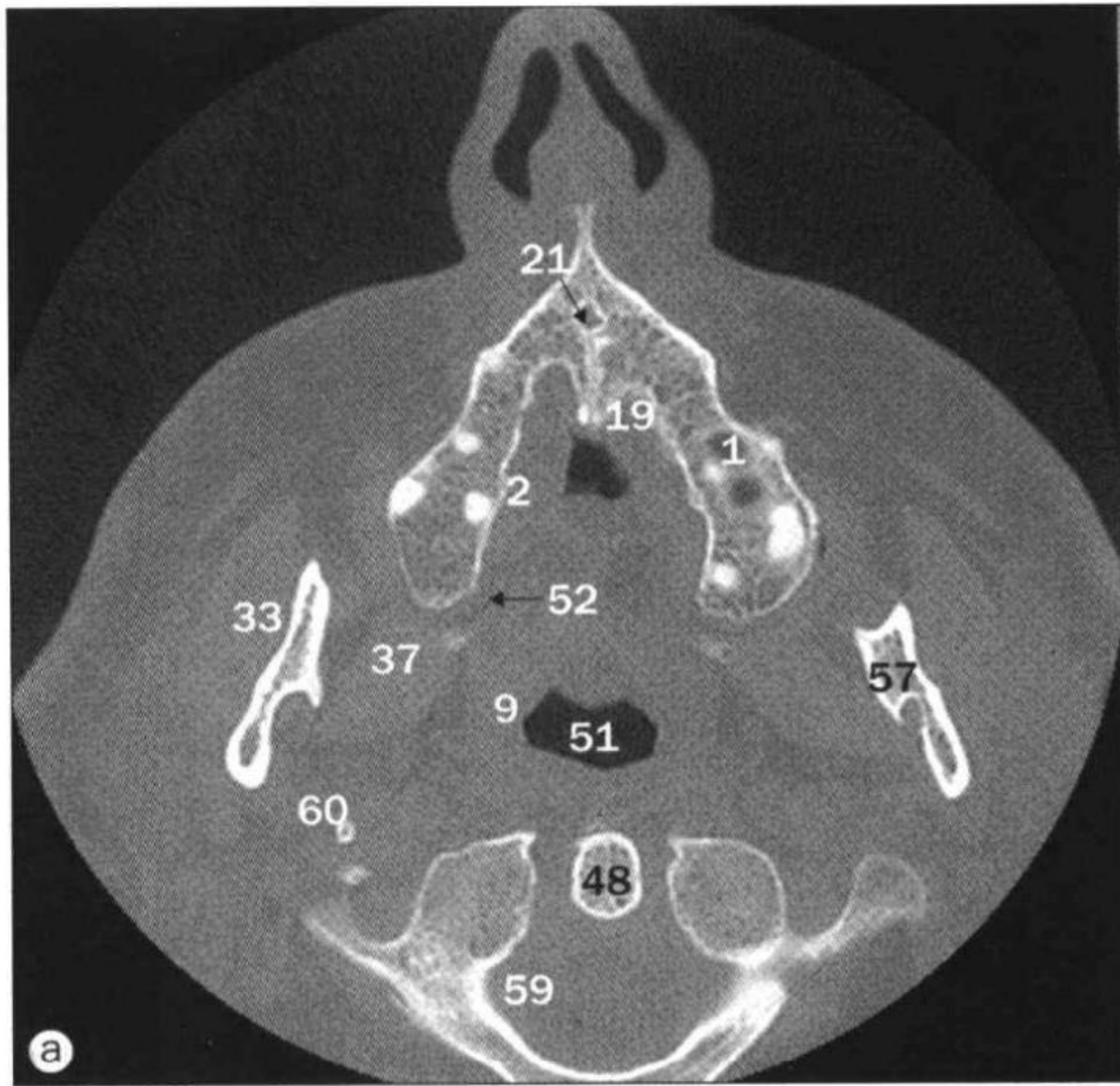
- 1 寰椎前弓
anterior arch of atlas (first cervical vertebra)
- 2 咽鼓管 auditory (Eustachian) tube
- 3 下颌体 body of mandible
- 4 颈动脉管 carotid canal
- 5 破裂孔 foramen lacerum
- 6 枕骨大孔 foramen magnum
- 7 卵圆孔 foramen ovale
- 8 棘孔 foramen spinosum
- 9 腭大孔 greater palatine foramen
- 10 蝶骨大翼 greater wing of sphenoid
- 11 下颌头 head of mandible
- 12 颈静脉孔 jugular foramen
- 13 枕髁 occipital condyle
- 14 枢椎齿突 odontoid process (dens) of axis
(second cervical vertebra)
- 15 筛骨垂直板 perpendicular plate of ethmoid
- 16 眶后缘 posterior margin of orbit
- 17 上颌窦后壁
posterior wall of maxillary sinus (antrum)
- 18 蝶窦 sphenoidal sinus
- 19 颧骨颞突 temporal process of zygomatic bone
- 20 犁骨 vomer
- 21 颧弓 zygomatic arch
- 22 颧骨 zygomatic bone
- 23 颞骨颧突 zygomatic process of temporal bone



面颅和鼻旁窦，X线。a. 枕额位；b. 枕颞位；c. 侧位。

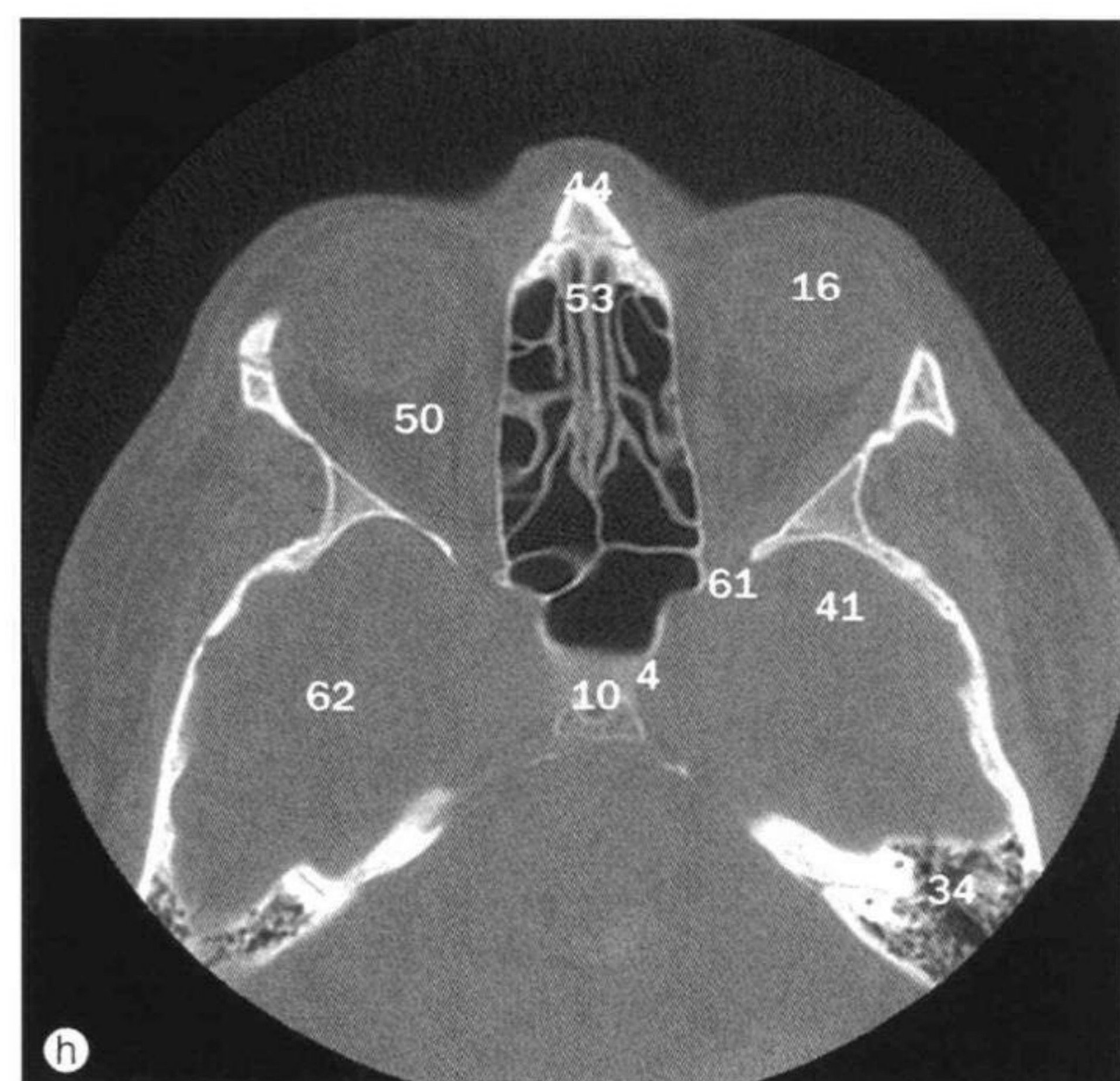
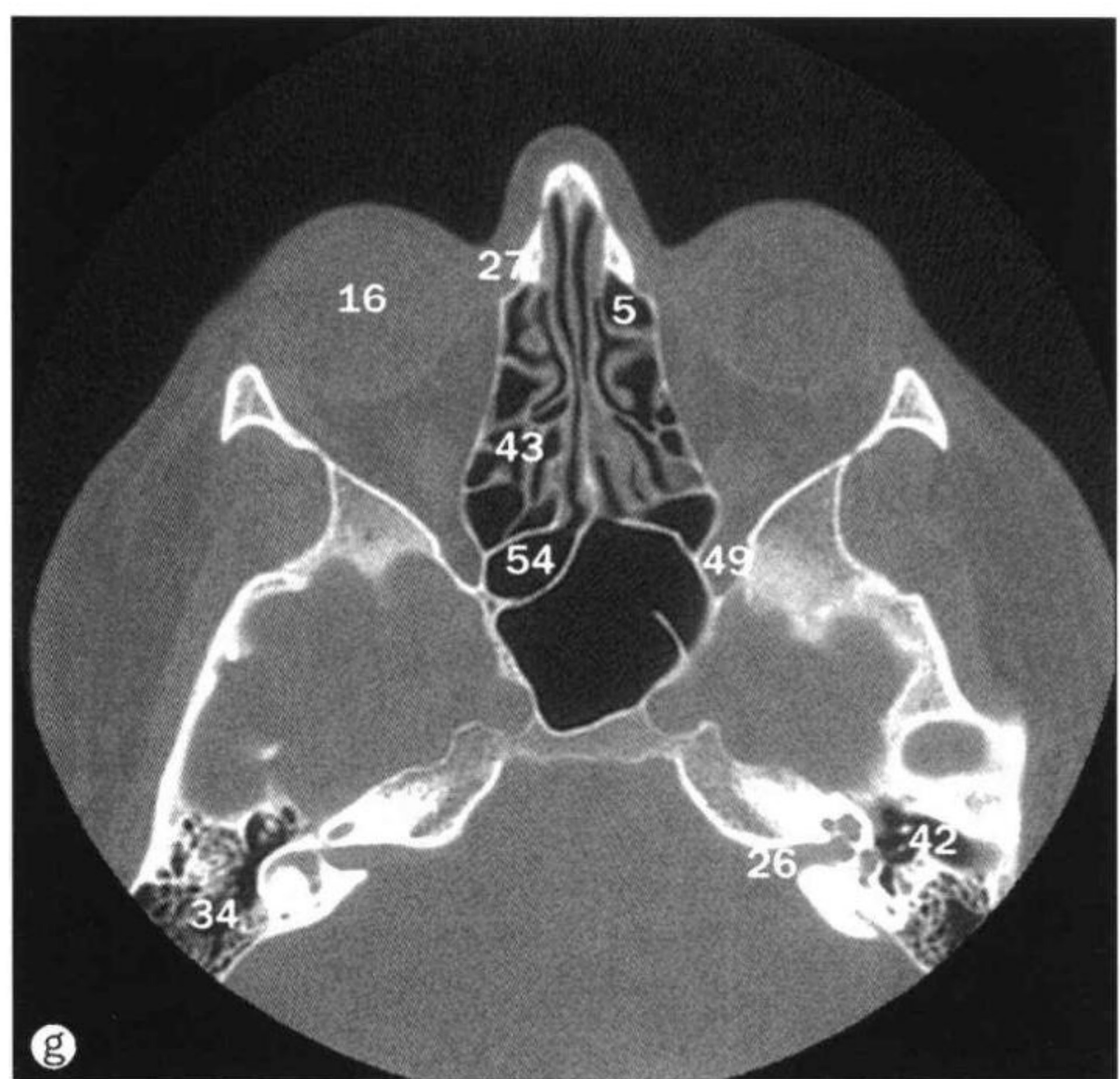
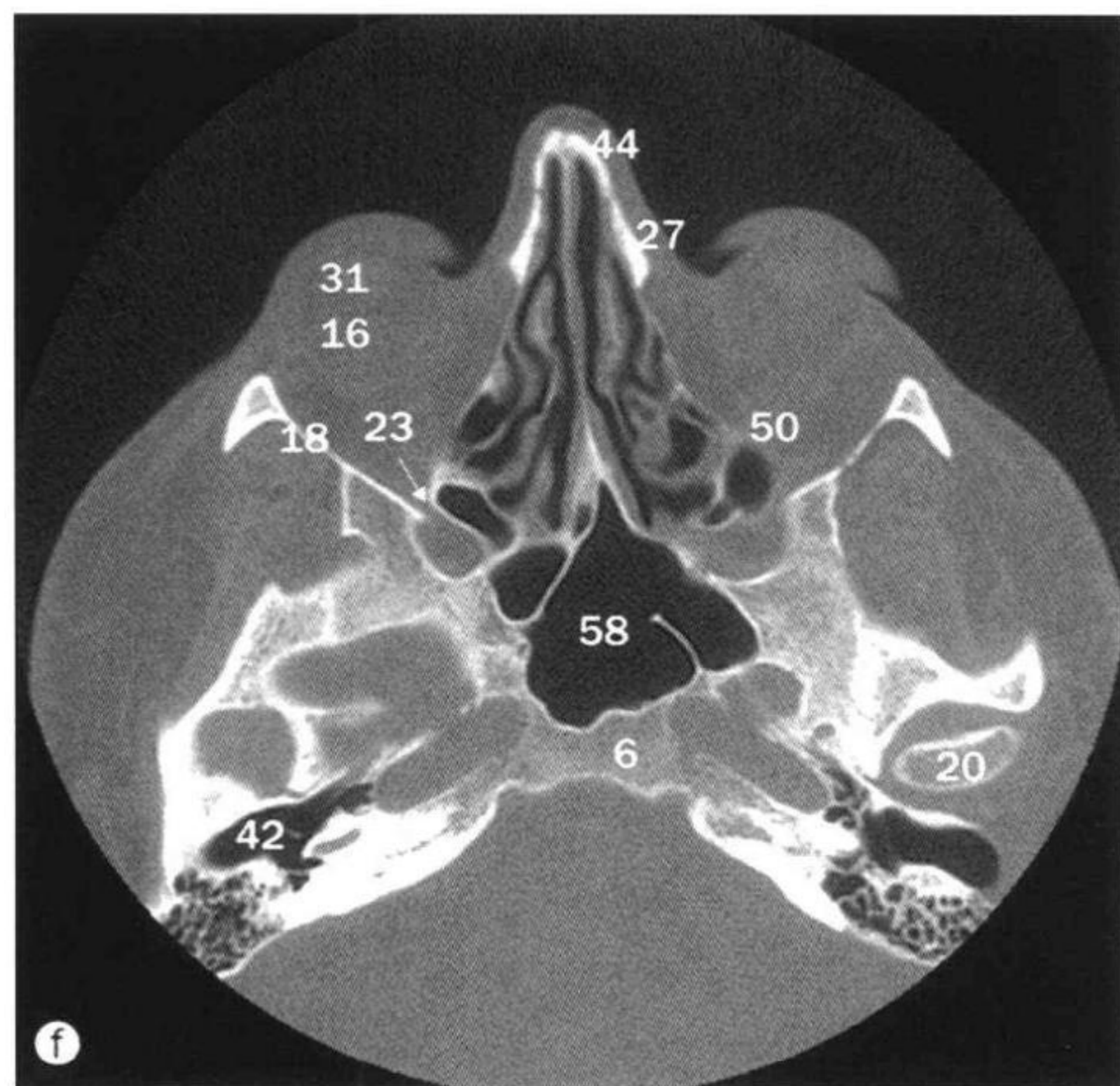
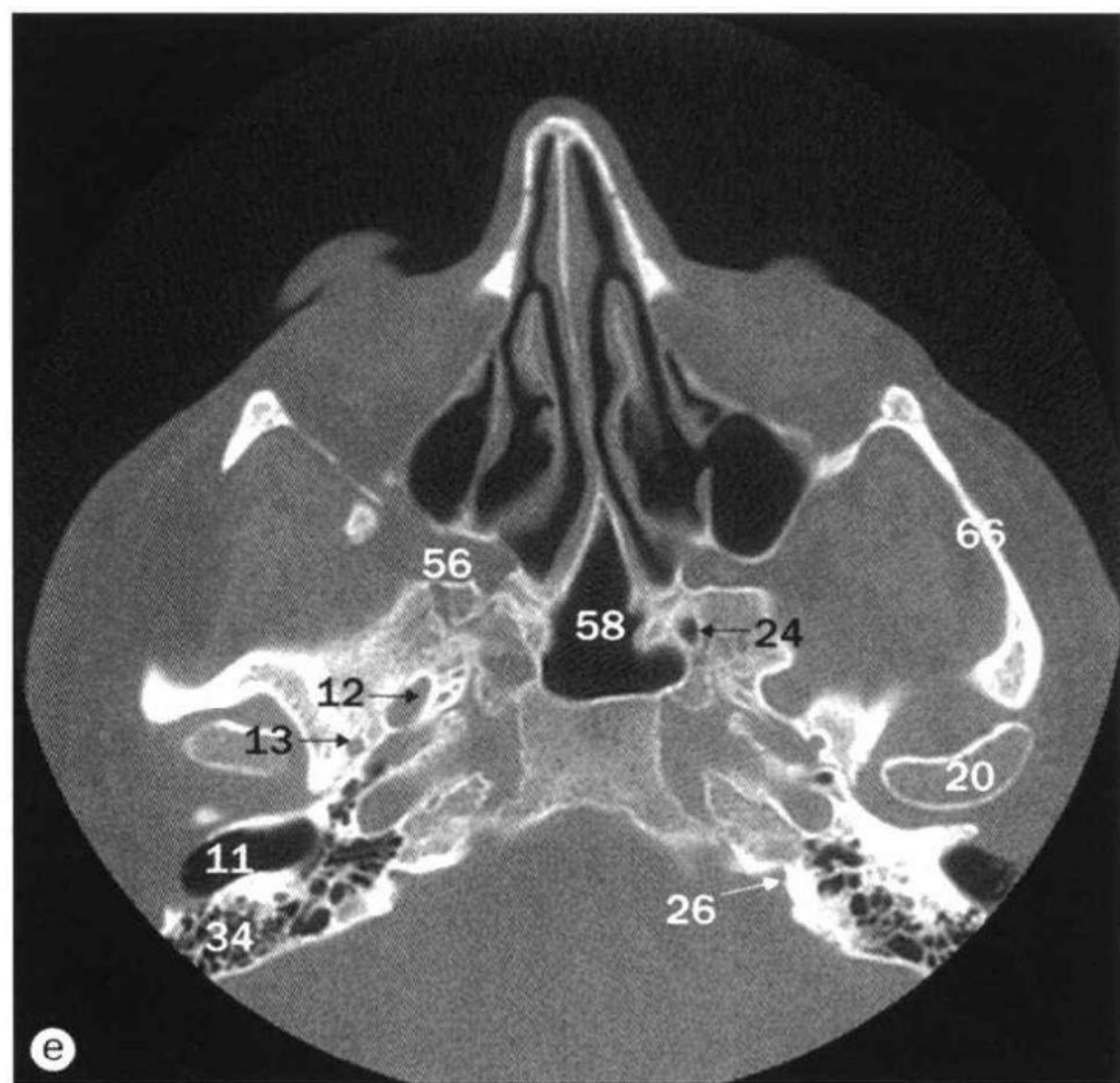
- 1 上颌窦前壁 anterior wall of maxillary sinus (antrum)
- 2 下颌骨髁突 condyle of mandible
- 3 下颌骨冠突 coronoid process of mandible
- 4 筛窦 ethmoidal sinuses
- 5 颧骨额突 frontal process of zygomatic bone
- 6 额窦 frontal sinuses
- 7 额颧缝 frontozygomatic suture
- 8 蝶骨大翼 greater wing of sphenoid
- 9 腭骨水平板 horizontal plate of palatine bone
- 10 眶下孔 infra-orbital foramen
- 11 左上颌窦 left maxillary sinus (antrum)
- 12 蝶骨小翼 lesser wing of sphenoid
- 13 上颌骨颧突 malar process of maxilla
- 14 鼻中隔 nasal septum
- 15 上颌骨腭突 palatine process of maxilla
- 16 上颌窦后壁 posterior wall of maxillary sinus (antrum)
- 17 蝶鞍 sella turcica
- 18 蝶窦 sphenoidal sinus
- 19 眶上裂 superior orbital fissure
- 20 颧骨颞突 temporal process of zygomatic bone
- 21 颧弓 zygomatic arch
- 22 额骨颧突 zygomatic process of frontal bone
- 23 颞骨颧突 zygomatic process of temporal bone





面颅和鼻旁窦，轴位 CT。于以下不同层面进行的扫描：a. 上颌骨牙槽突；b. 上颌窦；c. 寰椎椎弓；d. 颧弓；e. 颅底；f. 蝶窦；g. 筛窦；h. 视神经。

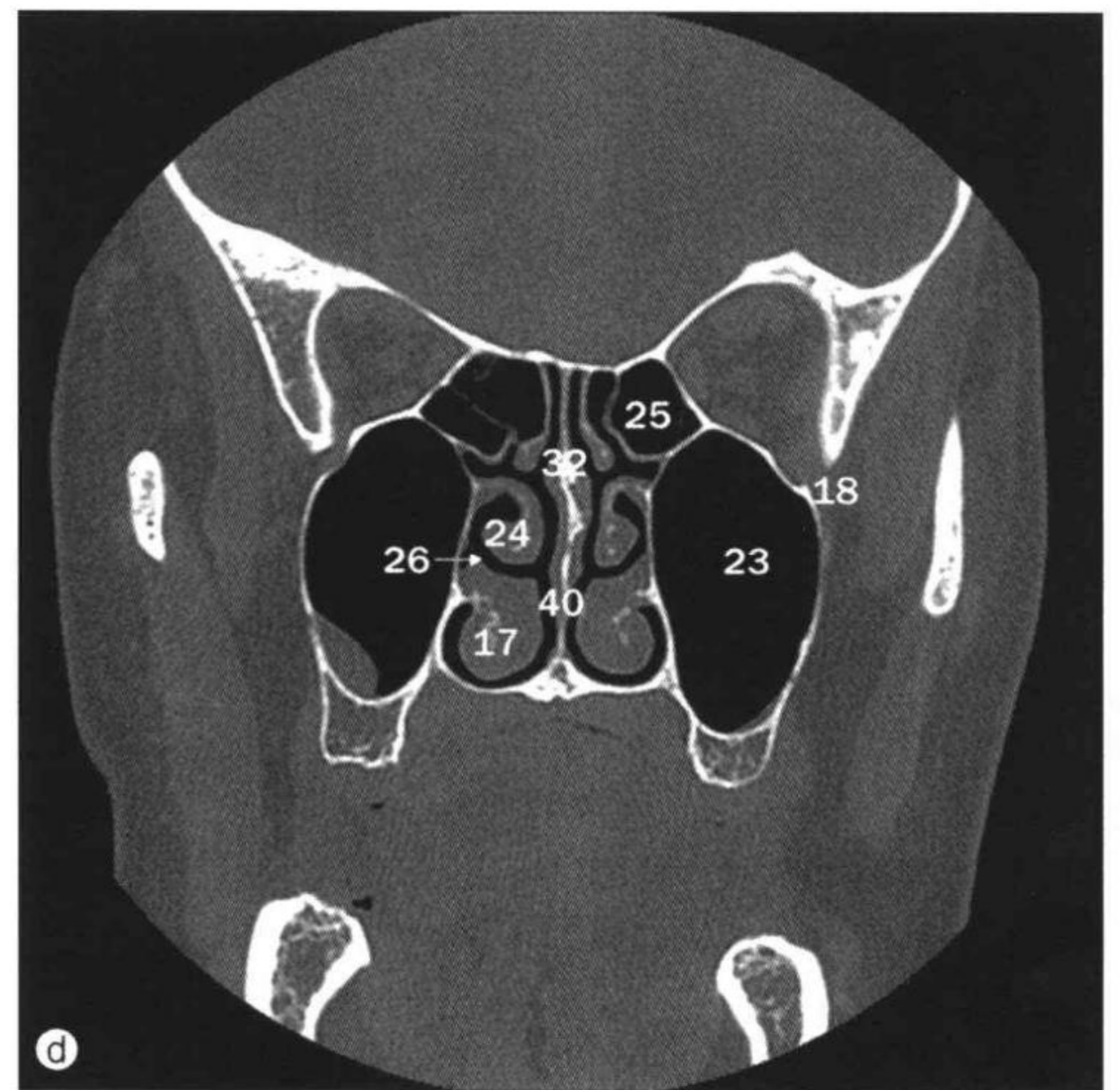
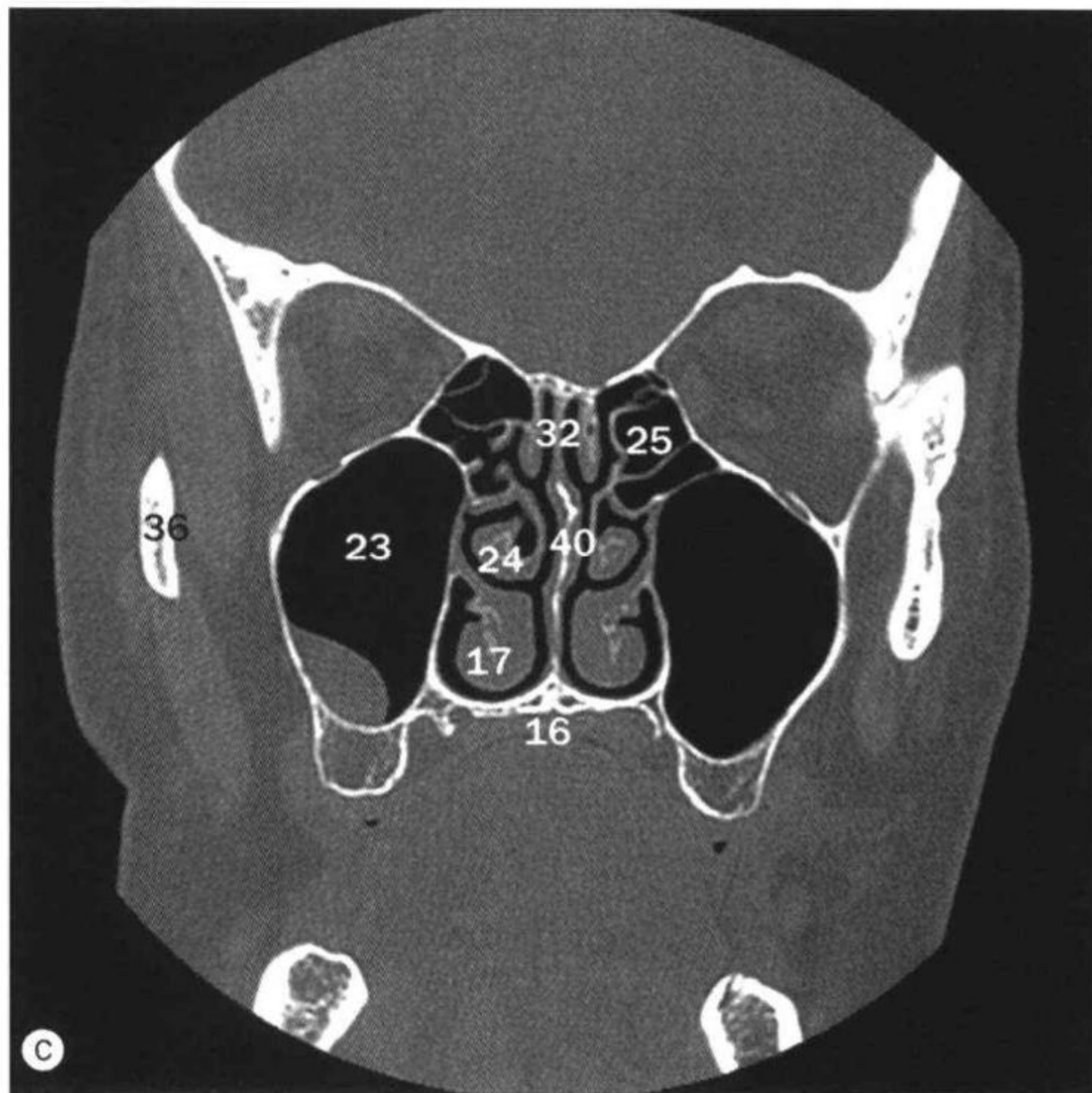
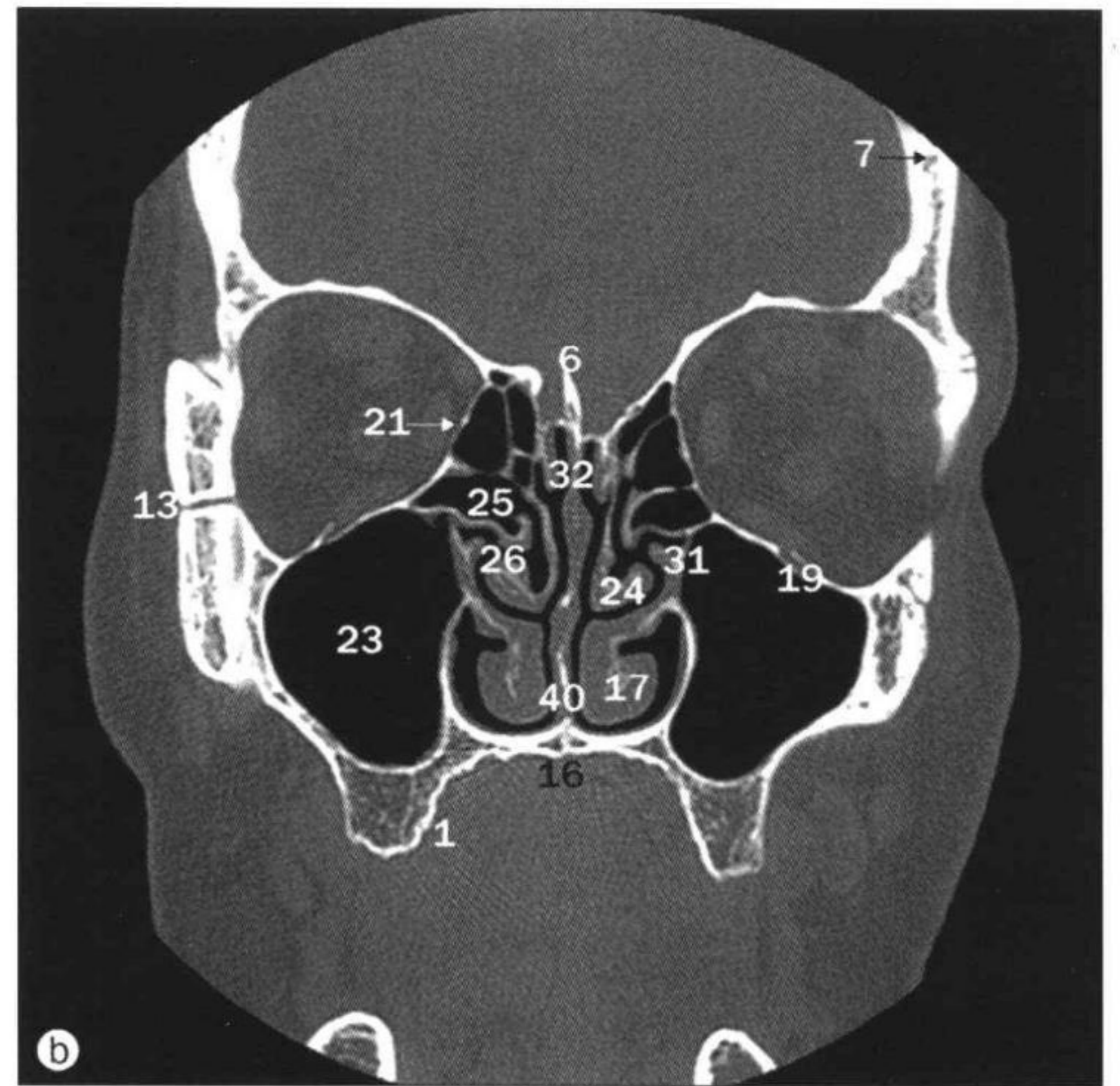
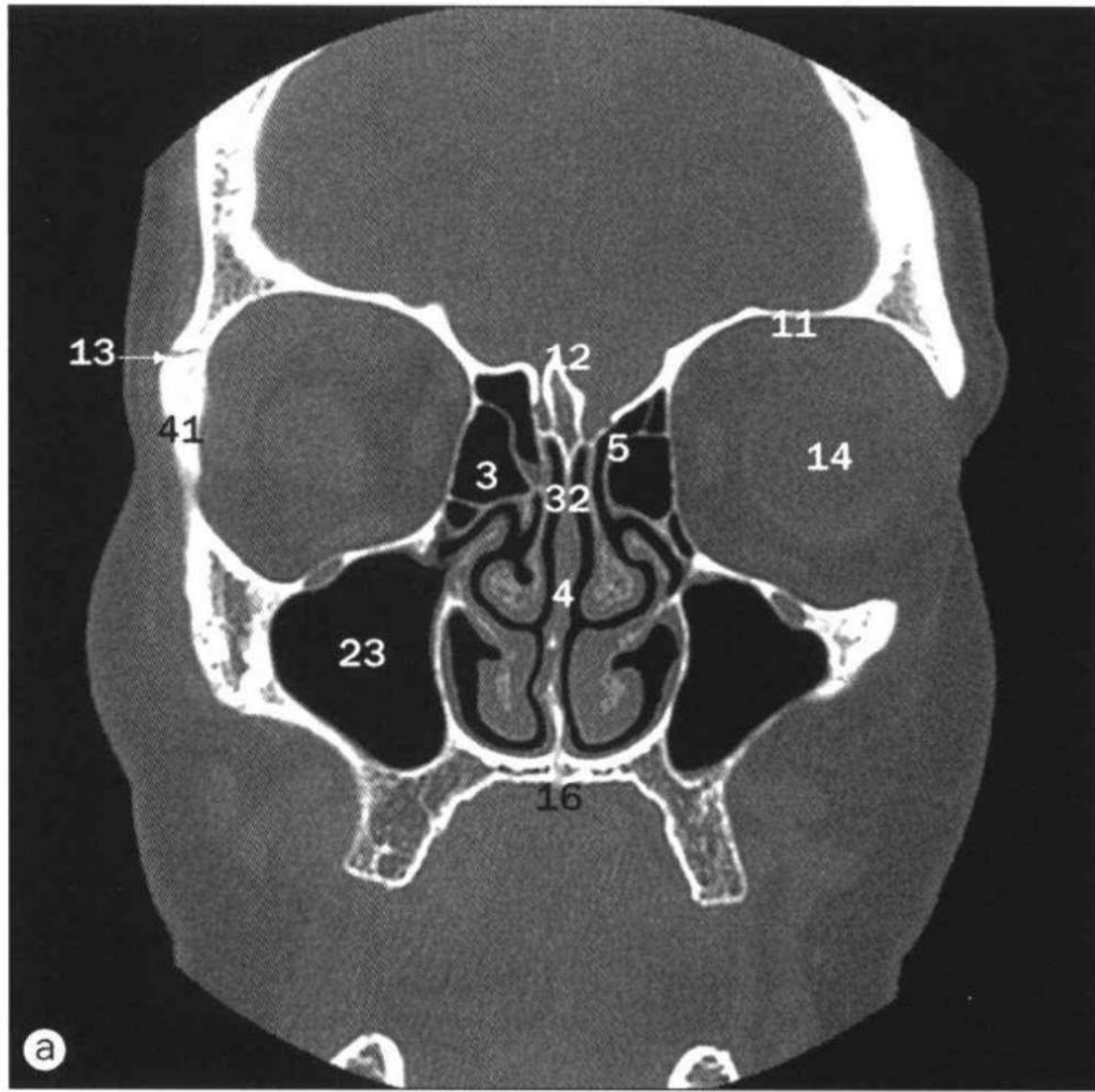
- | | | |
|---|----------------------------------|--|
| 1 牙槽突 alveolar recess | 9 咽肌 deglutitional muscles | 20 下颌头 head of mandible |
| 2 牙槽缘 alveolar rim | 10 鞍背 dorsum sellae | 21 切牙管 incisive canal |
| 3 寰椎前弓 anterior arch of atlas (first cervical vertebra) | 11 外耳道 external acoustic canal | 22 下鼻甲 inferior nasal concha (turbinate) |
| 4 前床突 anterior clinoid process | 12 卵圆孔 foramen ovale | 23 眶下裂 inferior orbital fissure |
| 5 前筛小房 anterior ethmoidal air cells | 13 棘孔 foramen spinosum | 24 下外侧隐窝 inferolateral recess |
| 6 斜坡 clivus | 14 额骨 frontal bone | 25 颞下窝 infratemporal fossa |
| 7 下颌骨冠突 coronoid process of mandible | 15 额窦 frontal sinus | 26 内耳门 internal acoustic meatus |
| 8 鸡冠 crista galli | 16 眼球 globe | 27 泪骨 lacrimal bone |
| | 17 腭大管 greater palatine canal | 28 翼外肌 lateral pterygoid muscle |
| | 18 蝶骨大翼 greater wing of sphenoid | 29 翼突外侧板 lateral pterygoid plate |
| | 19 硬腭 hard palate | |



30 上颌窦外侧壁
lateral wall of maxillary sinus (antrum)
31 晶状体 lens
32 下颌骨髁突 mandibular condyle
33 咬肌 masseter muscle
34 乳突小房 mastoid air cells
35 乳突 mastoid process
36 上颌窦 maxillary sinus (antrum)
37 翼内肌 medial pterygoid muscle
38 翼突内侧板 medial pterygoid plate
39 上颌窦内侧壁
medial wall of maxillary sinus (antrum)
40 中鼻甲 middle concha (turbinate)
41 颅中窝 middle cranial fossa

42 中耳腔 middle ear cavity
43 中筛小房 middle ethmoidal air cells
44 鼻骨 nasal bone
45 鼻腔 nasal cavity
46 鼻泪管 nasolacrimal duct
47 鼻咽 nasopharynx
48 齿突 odontoid process (dens)
49 视神经管 optic canal
50 视神经 optic nerve
51 口咽 oropharynx
52 咽旁间隙 parapharyngeal space
53 筛骨垂直板
perpendicular plate of ethmoid bone
54 后筛小房 posterior ethmoidal air cells

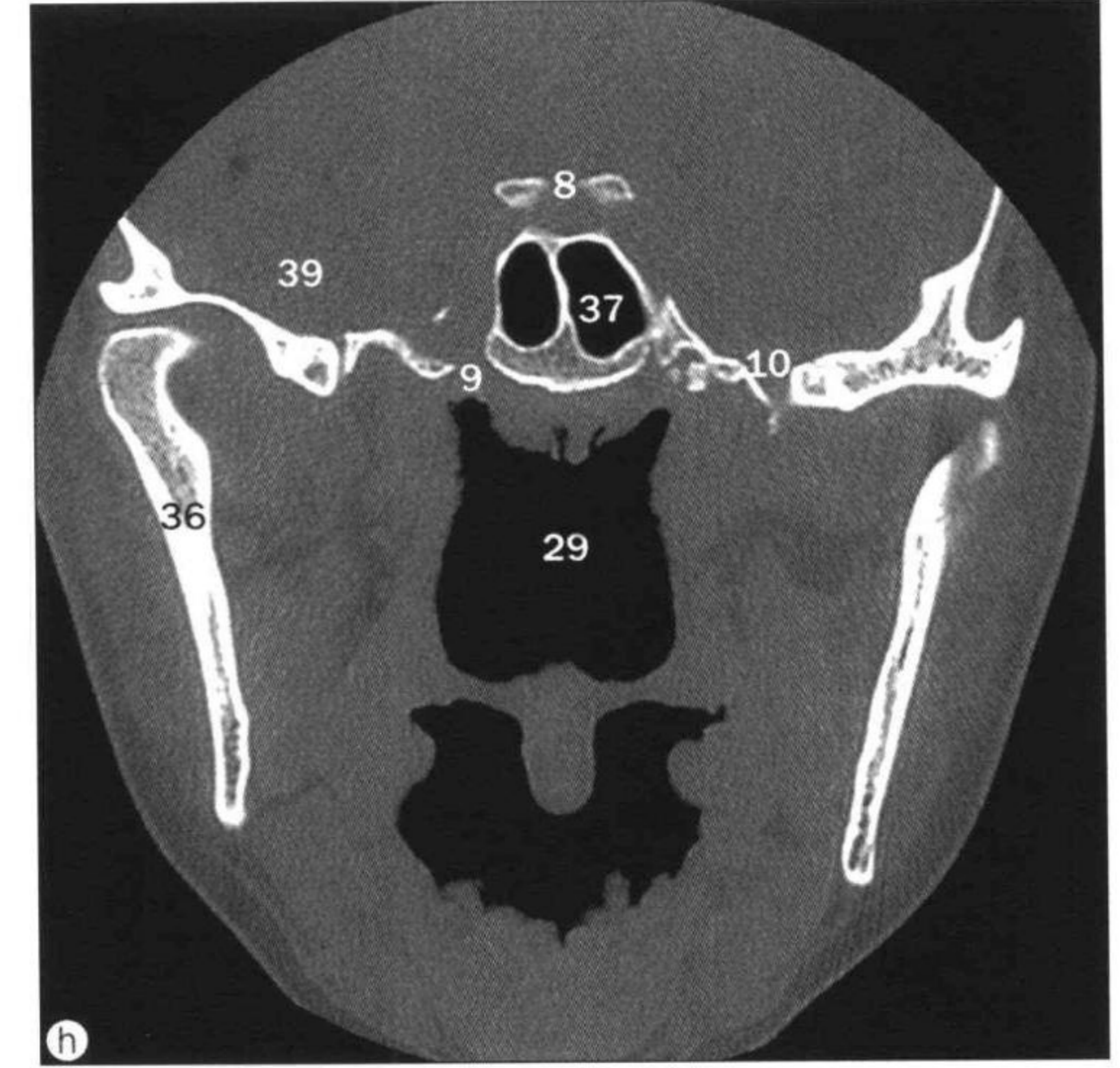
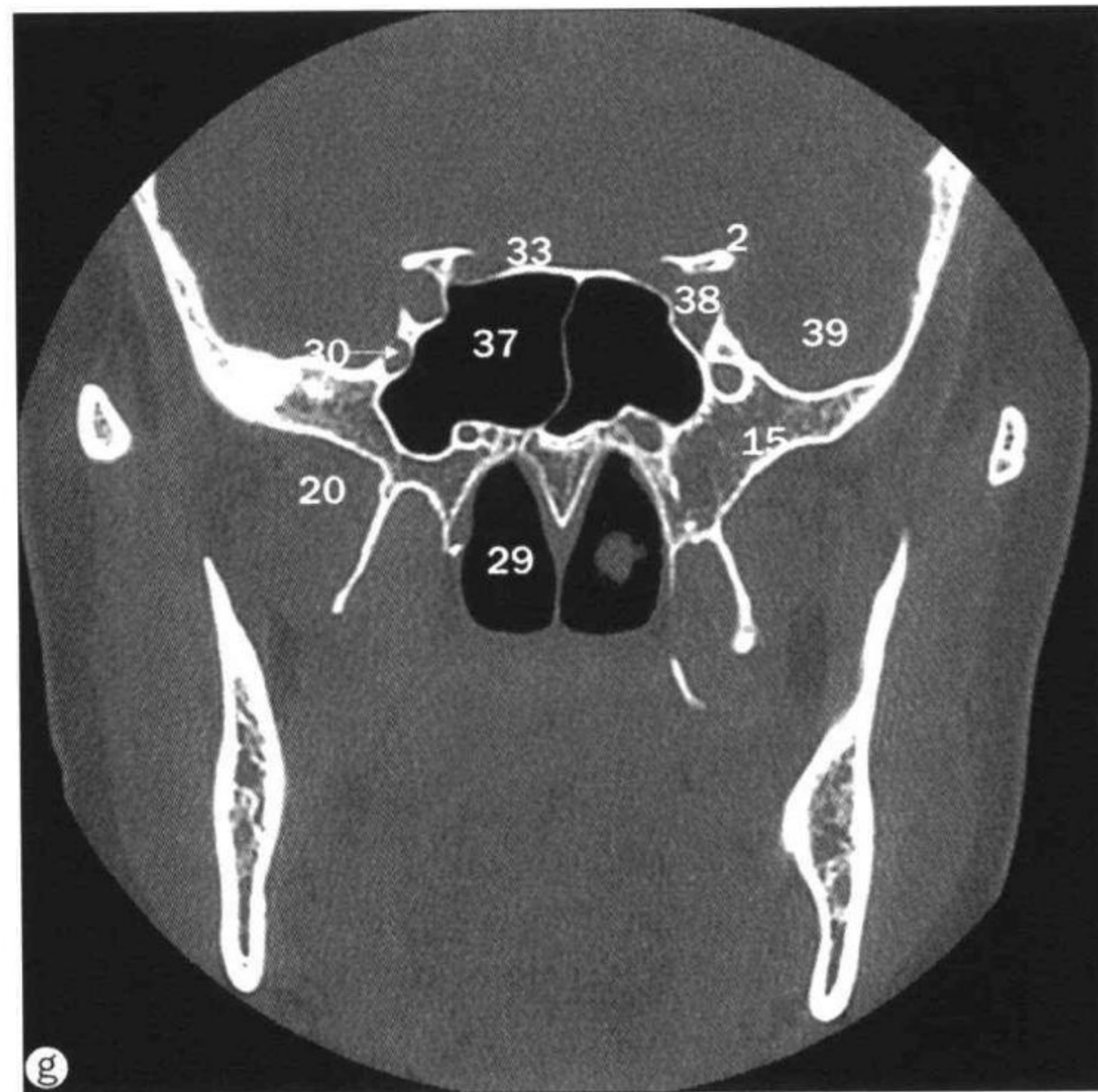
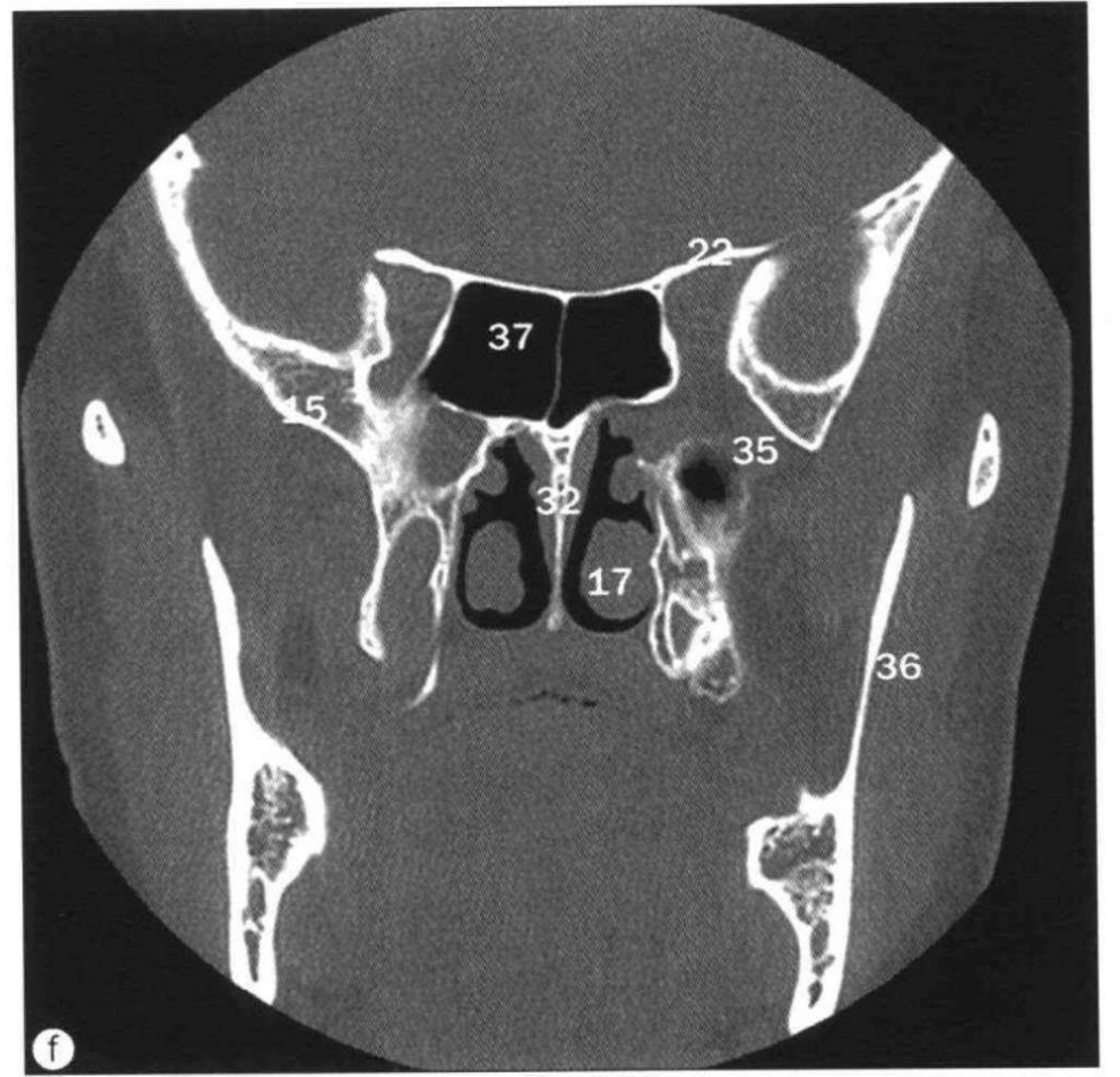
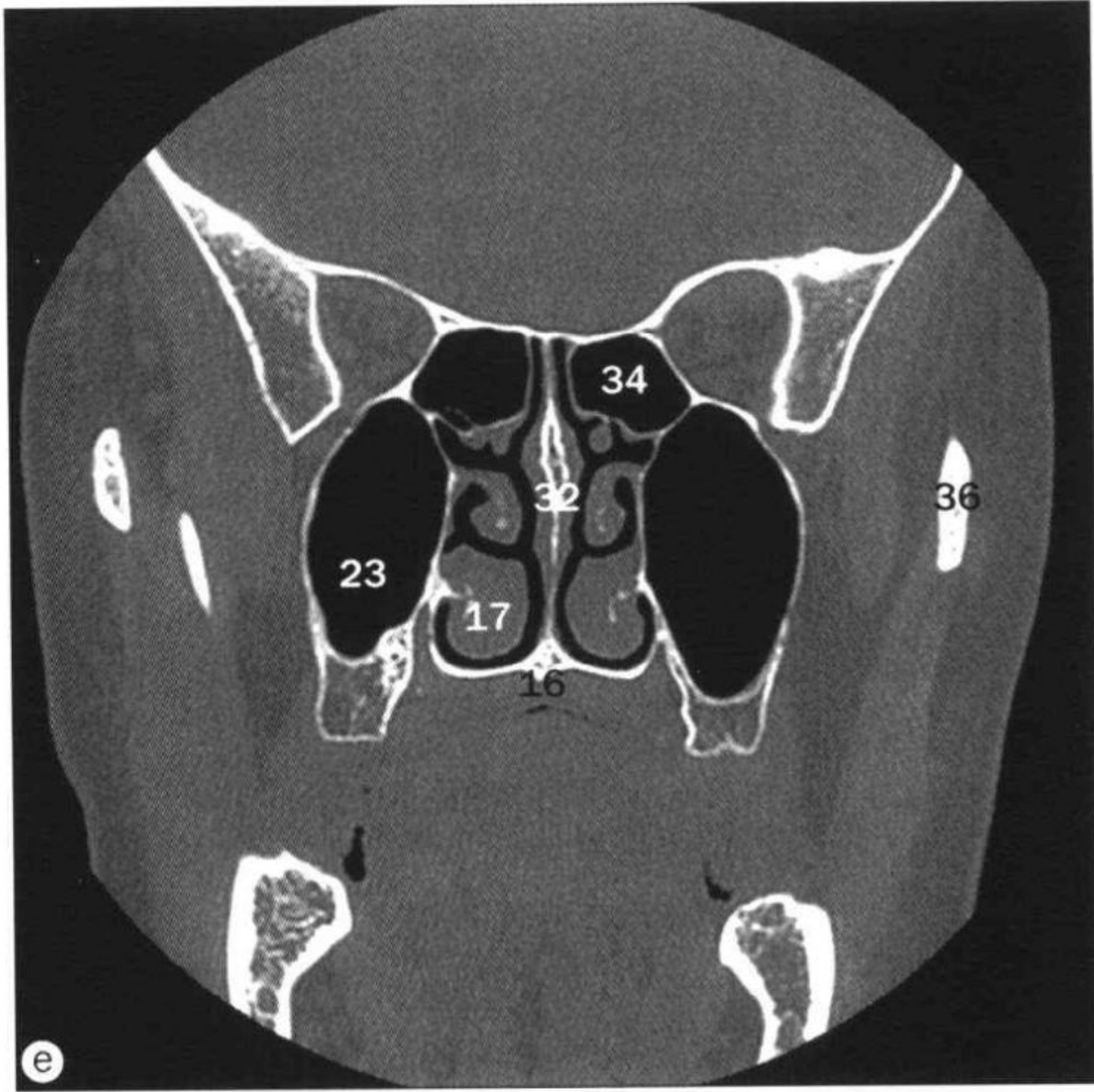
55 翼窝 pterygoid fossa
56 翼上颌裂
pterygomaxillary fissure
57 下颌支 ramus of mandible
58 蝶窦 sphenoidal sinus
59 椎管 spinal canal
60 茎突 styloid process
61 眶上裂 superior orbital fissure
62 颞叶 temporal lobe
63 颞肌 temporalis muscle
64 犁骨 vomer
65 颧骨 zygoma
66 颧弓 zygomatic arch



面颅和鼻旁窦，冠状位 CT。于以下不同层面进行的扫描：a. 前筛窦；b. 视神经；c. 中筛窦和上颌窦；d. 后筛窦；e. 上颌窦后部；f. 蝶窦前部；g. 蝶窦中部；h. 蝶窦后部。

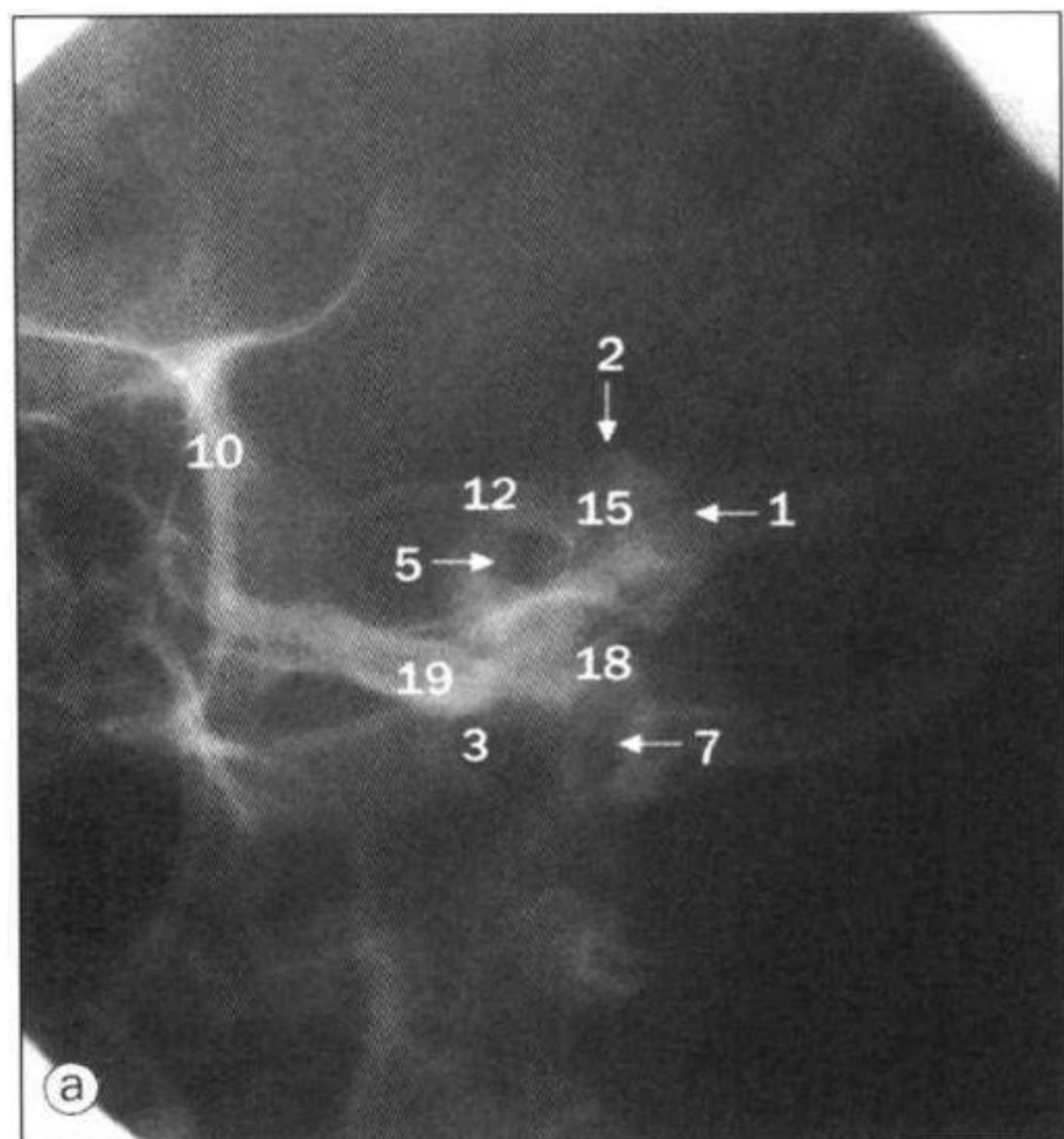
- 1 牙槽缘 alveolar rim
- 2 前床突 anterior clinoid process
- 3 前筛小房 anterior ethmoidal air cells
- 4 鼻中隔软骨部 cartilaginous portion of nasal septum
- 5 筛板 cribriform plate
- 6 鸡冠 crista galli
- 7 板障 diploë
- 8 鞍背 dorsum sellae
- 9 破裂孔 foramen lacerum
- 10 卵圆孔 foramen ovale

- 11 额骨 frontal bone
- 12 额窦 frontal sinus
- 13 额颧缝 frontozygomatic suture
- 14 眼球 globe
- 15 蝶骨大翼 greater wing of sphenoid
- 16 硬腭 hard palate
- 17 下鼻甲 inferior nasal concha (turbinate)
- 18 眶下裂 inferior orbital fissure
- 19 眶下孔 infra-orbital canal
- 20 颞下窝 infratemporal fossa

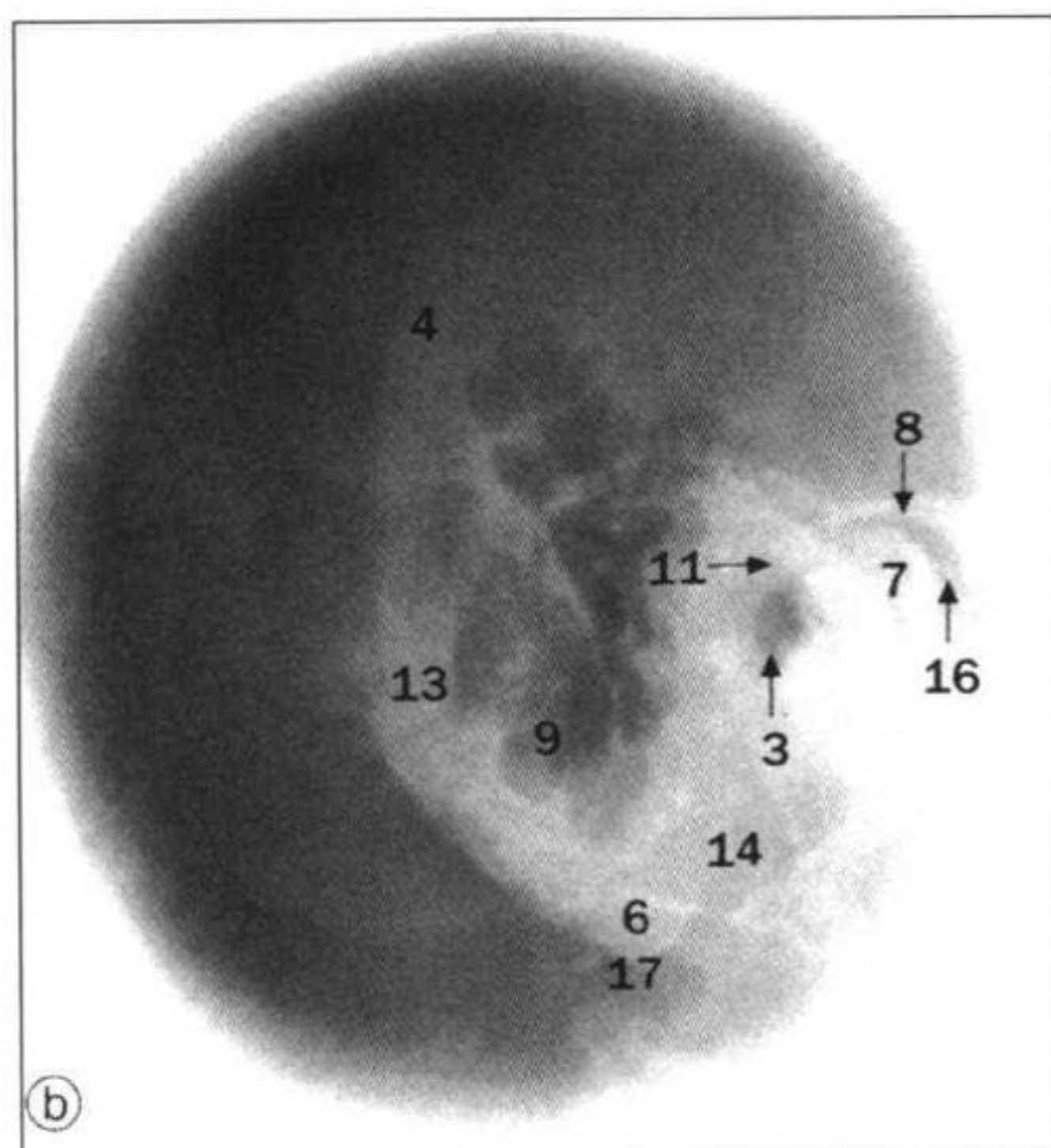


- 21 筛骨纸状板 lamina papyracea
- 22 蝶骨小翼 lesser wing of sphenoid
- 23 上颌窦 maxillary sinus (antrum)
- 24 中鼻甲 middle concha (turbinate)
- 25 中筛小房 middle ethmoidal air cells
- 26 中鼻道 middle meatus
- 27 鼻骨 nasal bone
- 28 鼻泪管 nasolacrimal duct
- 29 鼻咽 nasopharynx
- 30 视神经管 optic canal
- 31 窦口 ostium of antrum

- 32 筛骨垂直板 perpendicular plate of ethmoidal bone
- 33 蝶骨平面 planum sphenoidale
- 34 后筛小房 posterior ethmoidal air cells
- 35 翼腭窝 pterygopalatine fossa
- 36 下颌支 ramus of mandible
- 37 蝶窦 sphenoidal sinus
- 38 眶上裂 superior orbital fissure
- 39 颞叶 temporal lobe
- 40 犁骨 vomer
- 41 颧骨 zygoma

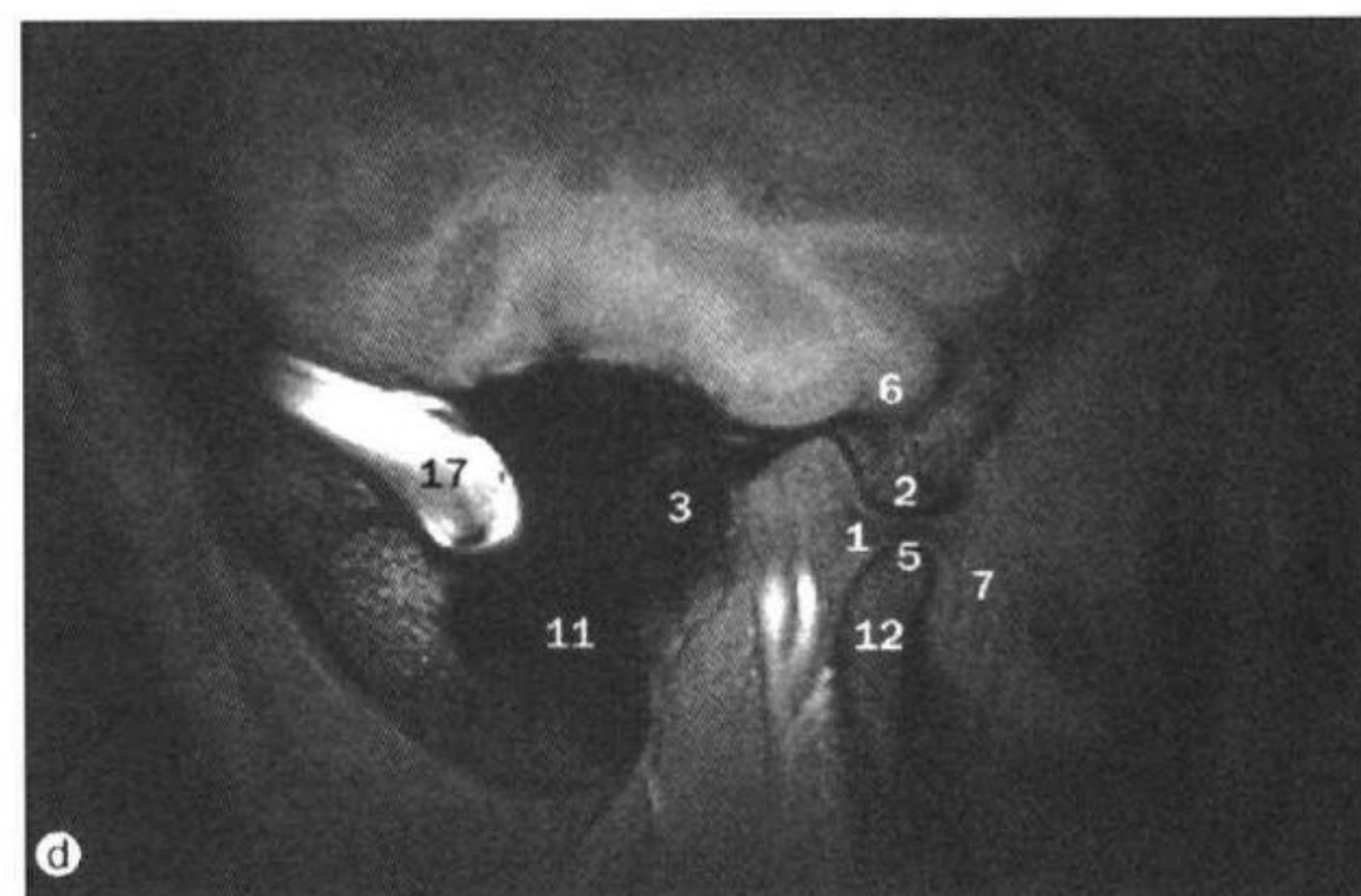
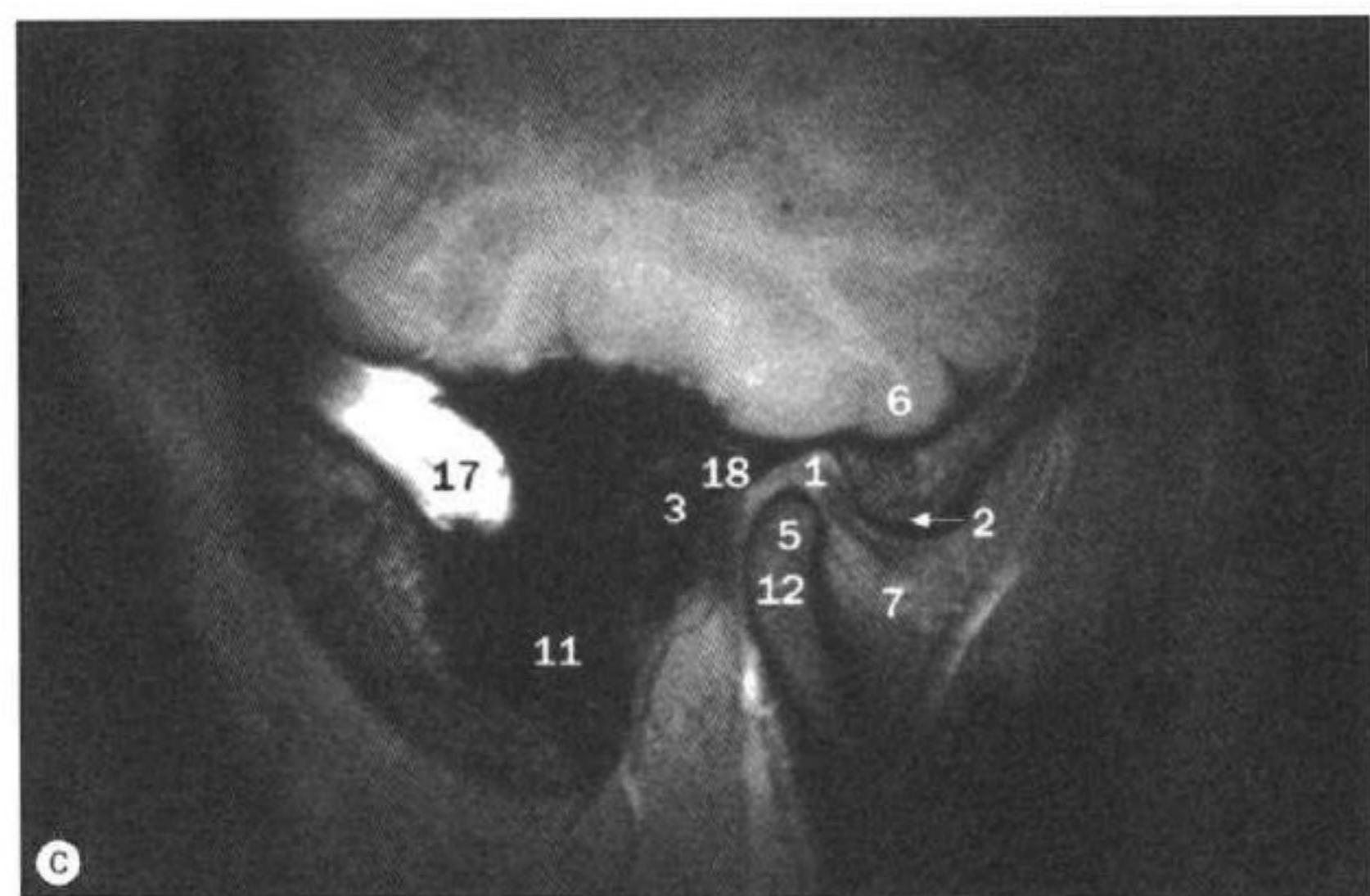


a. 颞骨岩部, 后前斜位 X 线。



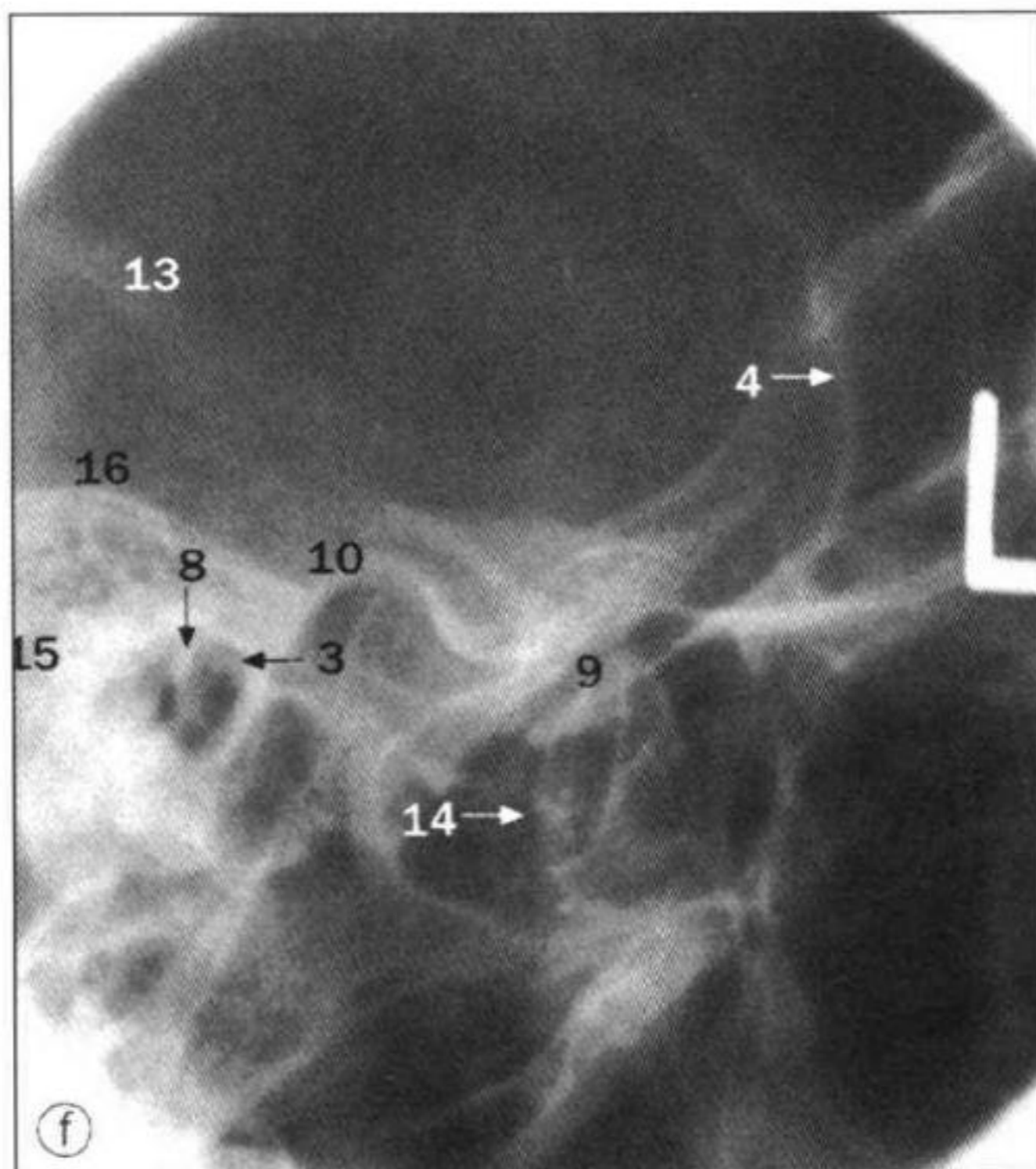
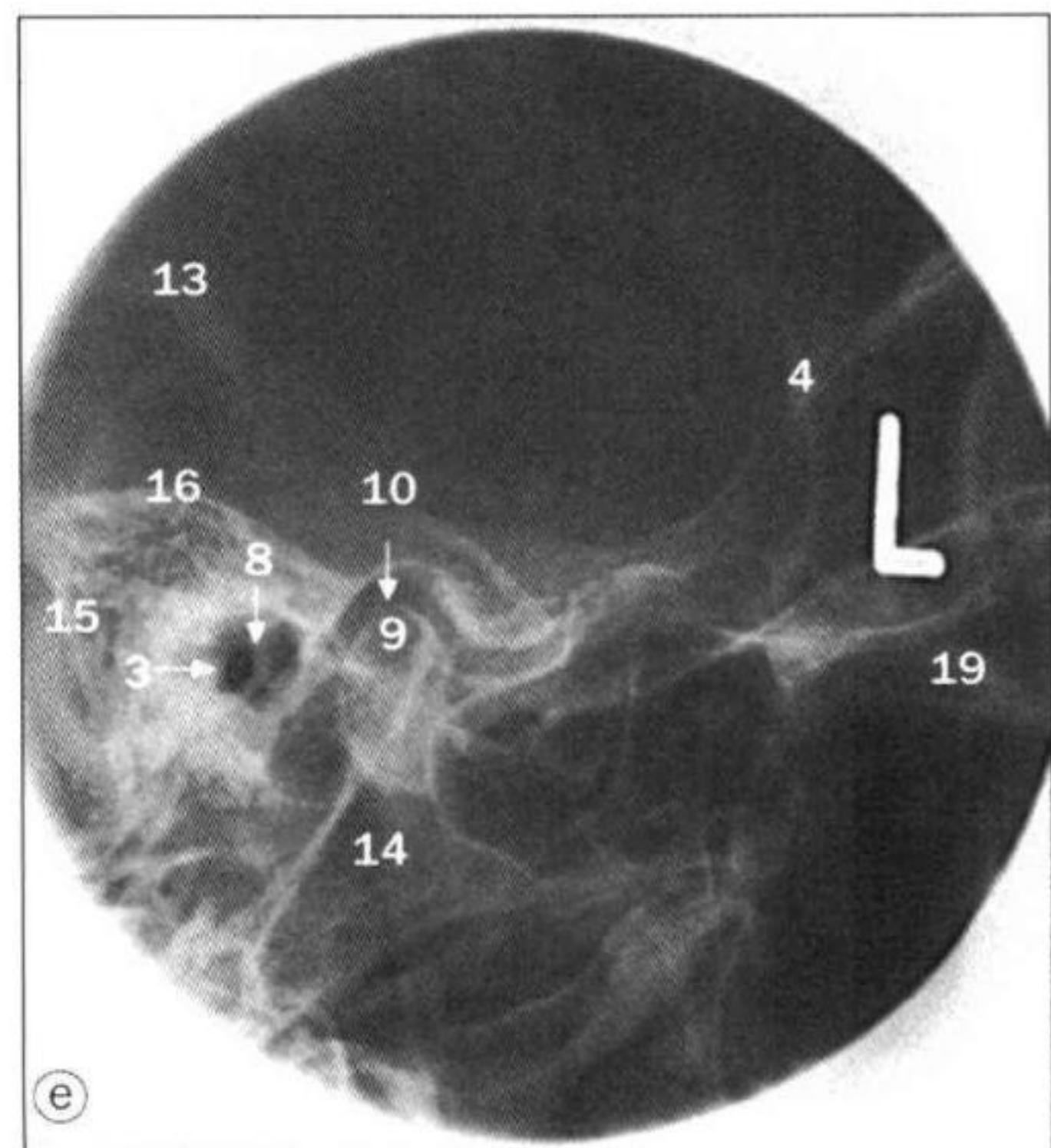
b. 乳突, 侧斜位 X 线。

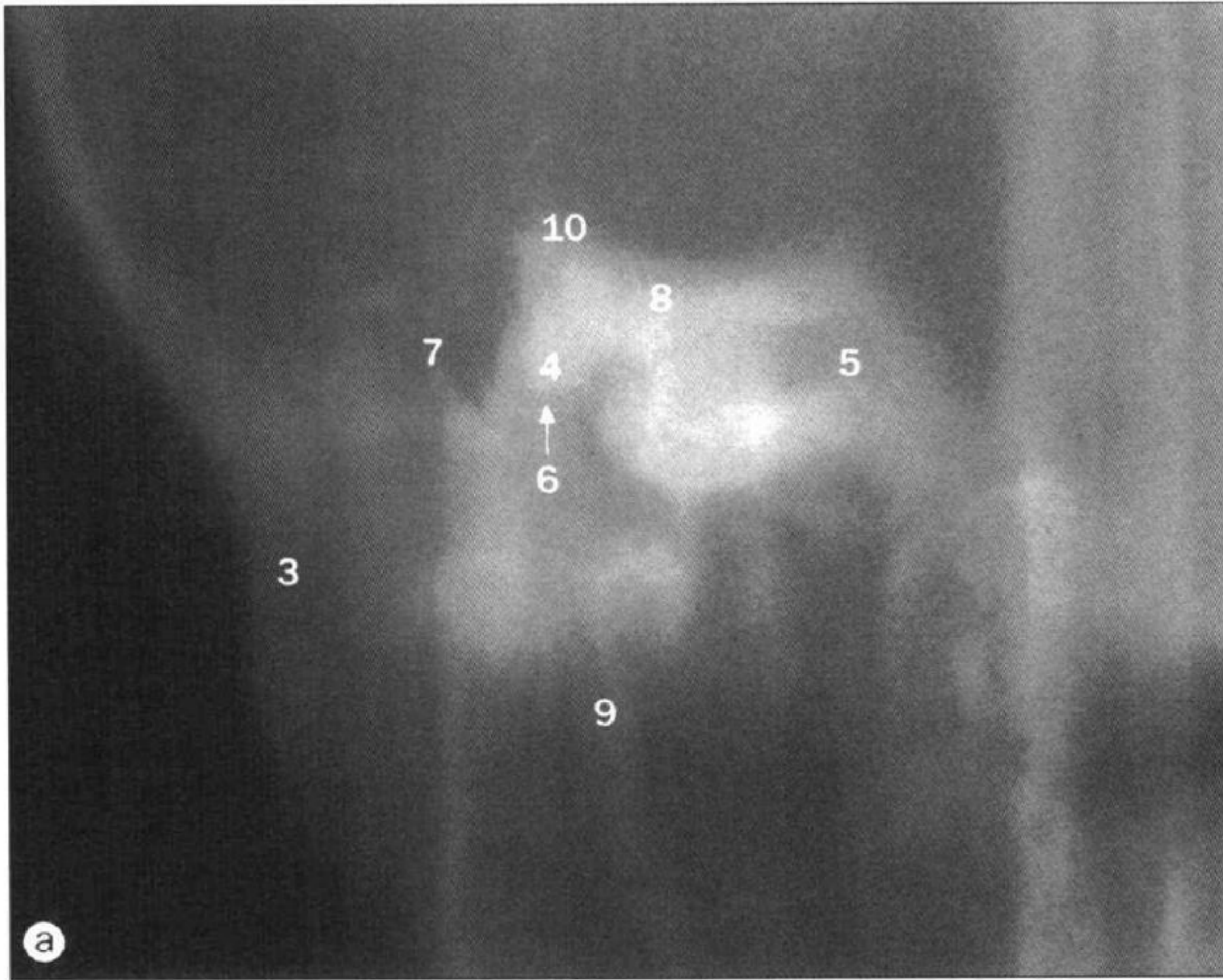
- 1 乳突窦入口 aditus to mastoid antrum
- 2 颞骨弓状隆起 arcuate eminence of temporal bone
- 3 外耳门 external acoustic meatus
- 4 耳轮 helix of pinna of ear
- 5 内耳门 internal acoustic meatus
- 6 侧窦 lateral sinus
- 7 下颌骨髁突 mandibular condyle
- 8 下颌窝 mandibular fossa
- 9 乳突小房 mastoid air cells
- 10 眶缘 orbital margin
- 11 听小骨 (锤骨、砧骨) ossicles (malleus, incus)
- 12 颞骨岩部 petrous part of temporal bone
- 13 耳廓 pinna of ear
- 14 茎突 styloid process
- 15 上半规管 superior semicircular canal
- 16 颞下颌关节 temporomandibular joint
- 17 乳突尖 tip of mastoid process
- 18 内耳前庭 vestibular part of inner ear
- 19 颧弓 zygomatic arch



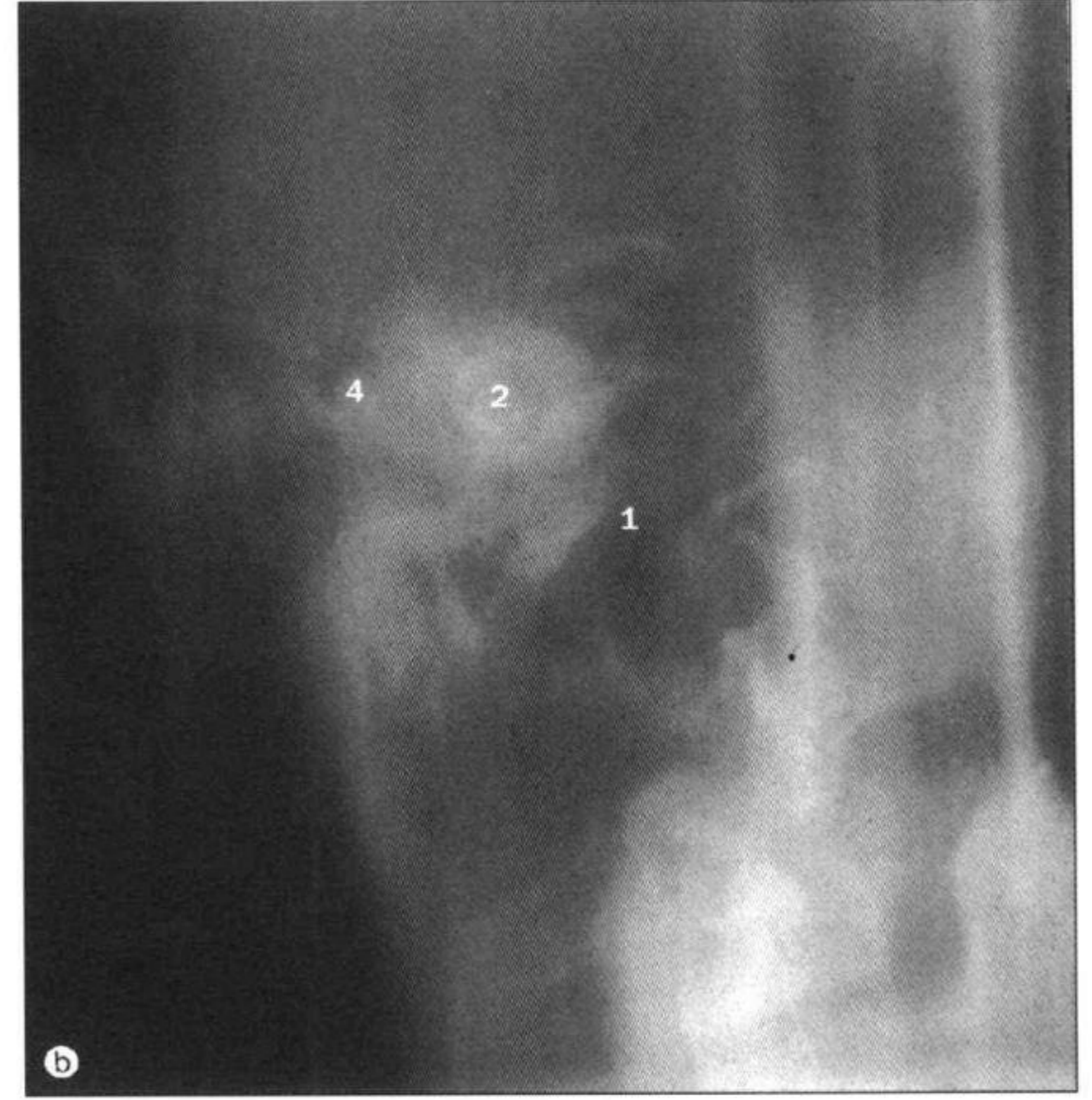
c. 关节闭锁; d. 关节张开。
e. 关节闭锁; f. 关节张开。

- 1 关节盘 articular disc
- 2 颞骨关节结节 articular tubercle of temporal bone
- 3 外耳门 external acoustic meatus
- 4 蝶骨大翼 greater wing of sphenoid
- 5 下颌头 head of mandible
- 6 颞下回 inferior temporal gyrus
- 7 翼外肌 lateral pterygoid muscle
- 8 锤骨 malleus
- 9 下颌骨髁突 mandibular condyle
- 10 下颌窝 mandibular fossa
- 11 颞骨乳突部 mastoid process of temporal bone
- 12 下颌颈 neck of mandible
- 13 耳廓 pinna of ear
- 14 下颌支后缘 posterior border of ramus of mandible
- 15 窦板 sinus plate
- 16 鼓室盖 tegmen tympani
- 17 横窦 transverse sinus
- 18 颞骨鼓部 tympanic part of temporal bone
- 19 颞骨颧突 zygomatic process of temporal bone



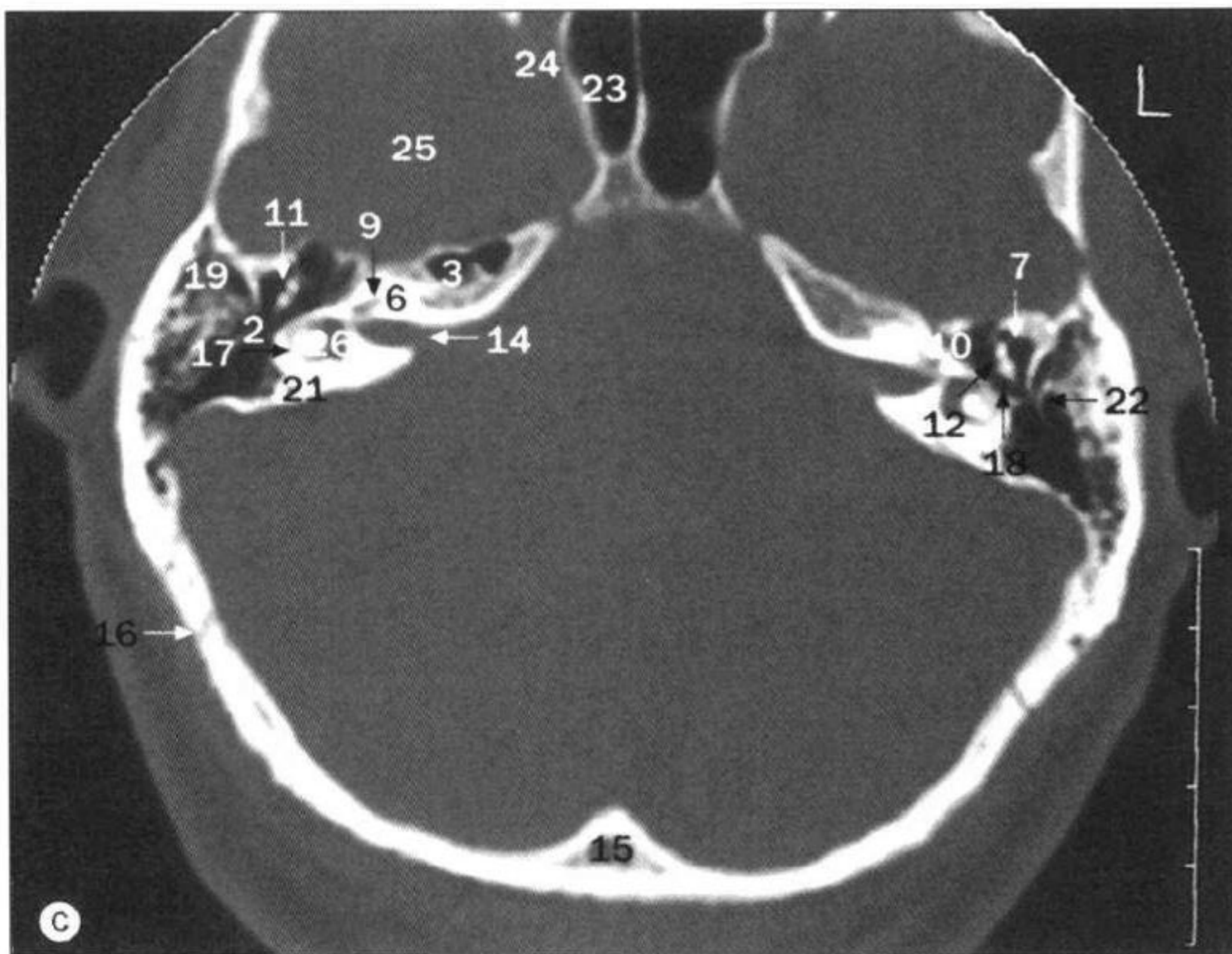


a. 颞骨, X线体层摄影(内耳门水平)。

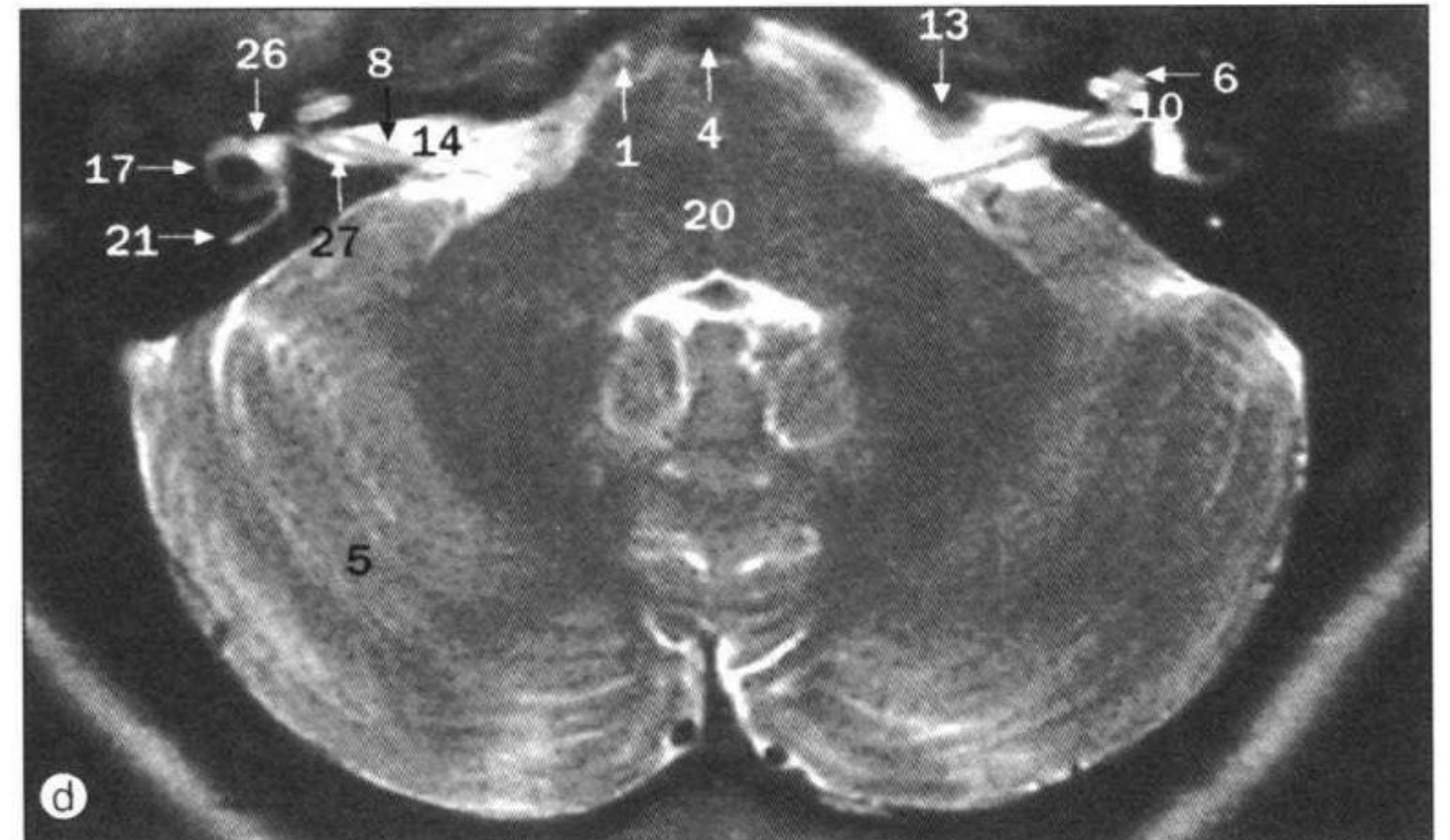


b. 颞骨, X线体层摄影(耳蜗水平, 图 a 所示体层之前数毫米)。

- | | | |
|--------------------------------|--------------------------------------|---|
| 1 颈动脉管 carotid canal | 5 内耳门 internal acoustic meatus | 9 颞骨茎突 styloid process of temporal bone |
| 2 耳蜗 cochlea | 6 锤骨 malleus | 10 上半规管 superior semicircular canal |
| 3 外耳门 external acoustic meatus | 7 乳突窦 mastoid antrum | |
| 4 砧骨 incus | 8 颞骨岩部 petrous part of temporal bone | |



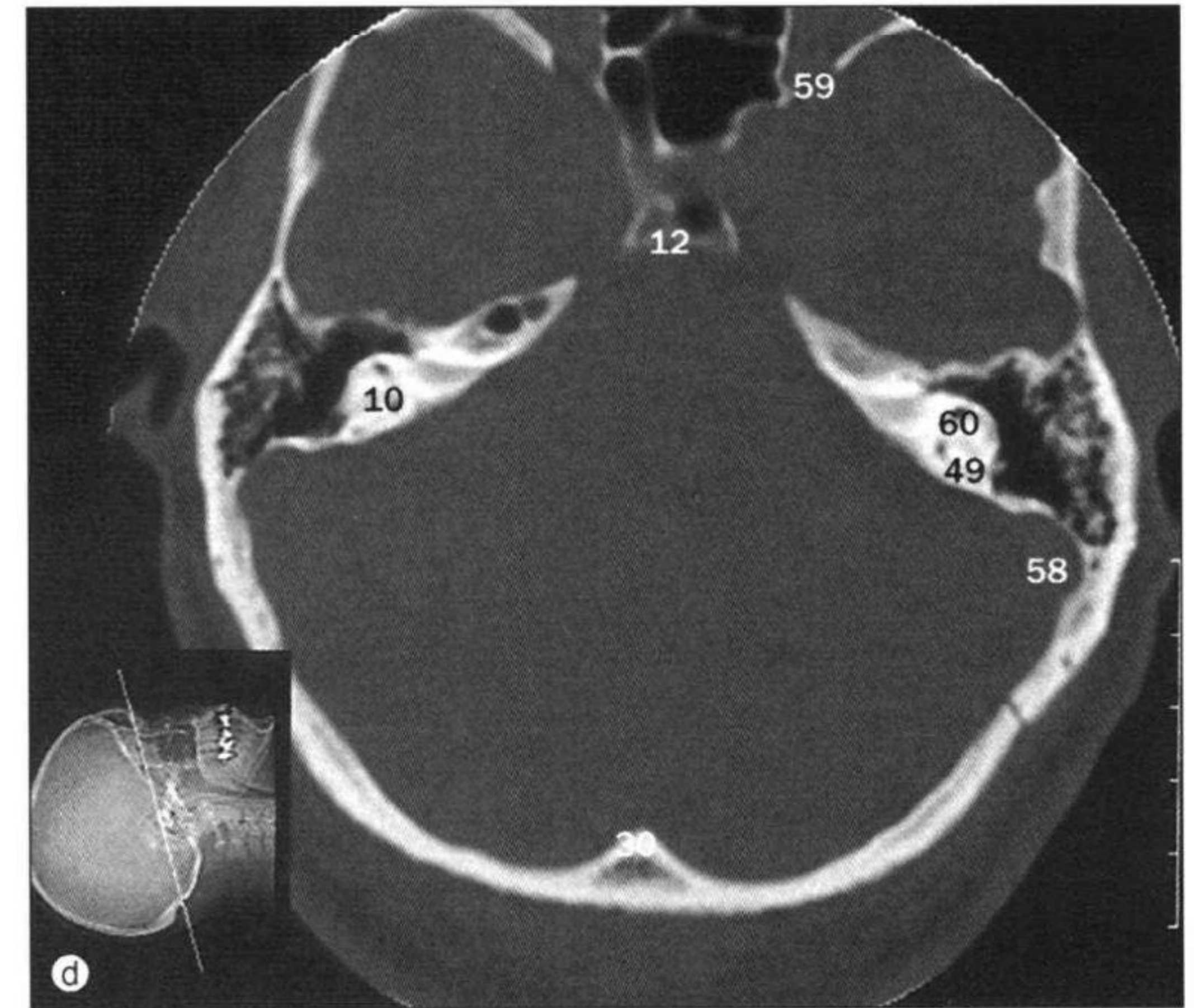
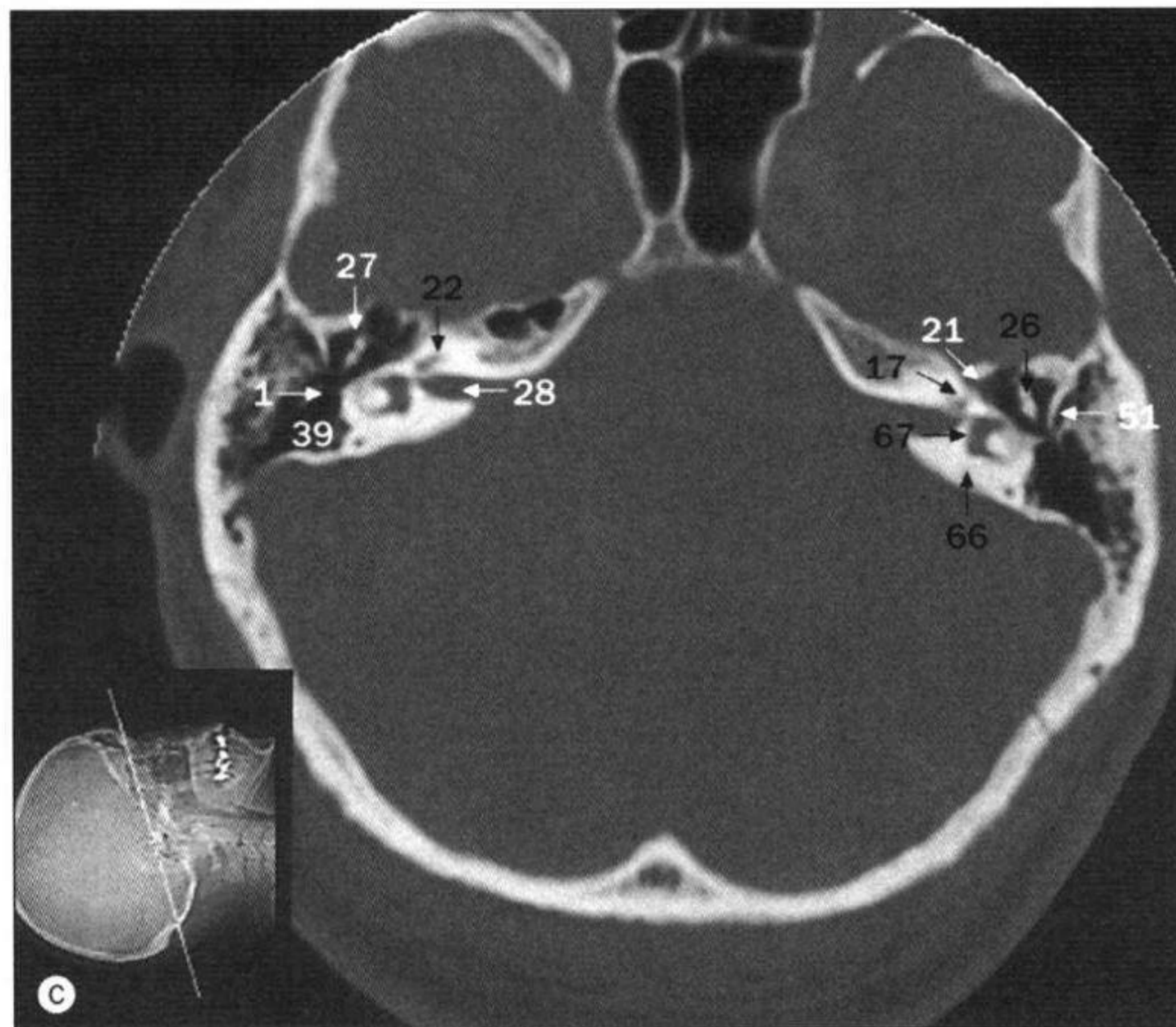
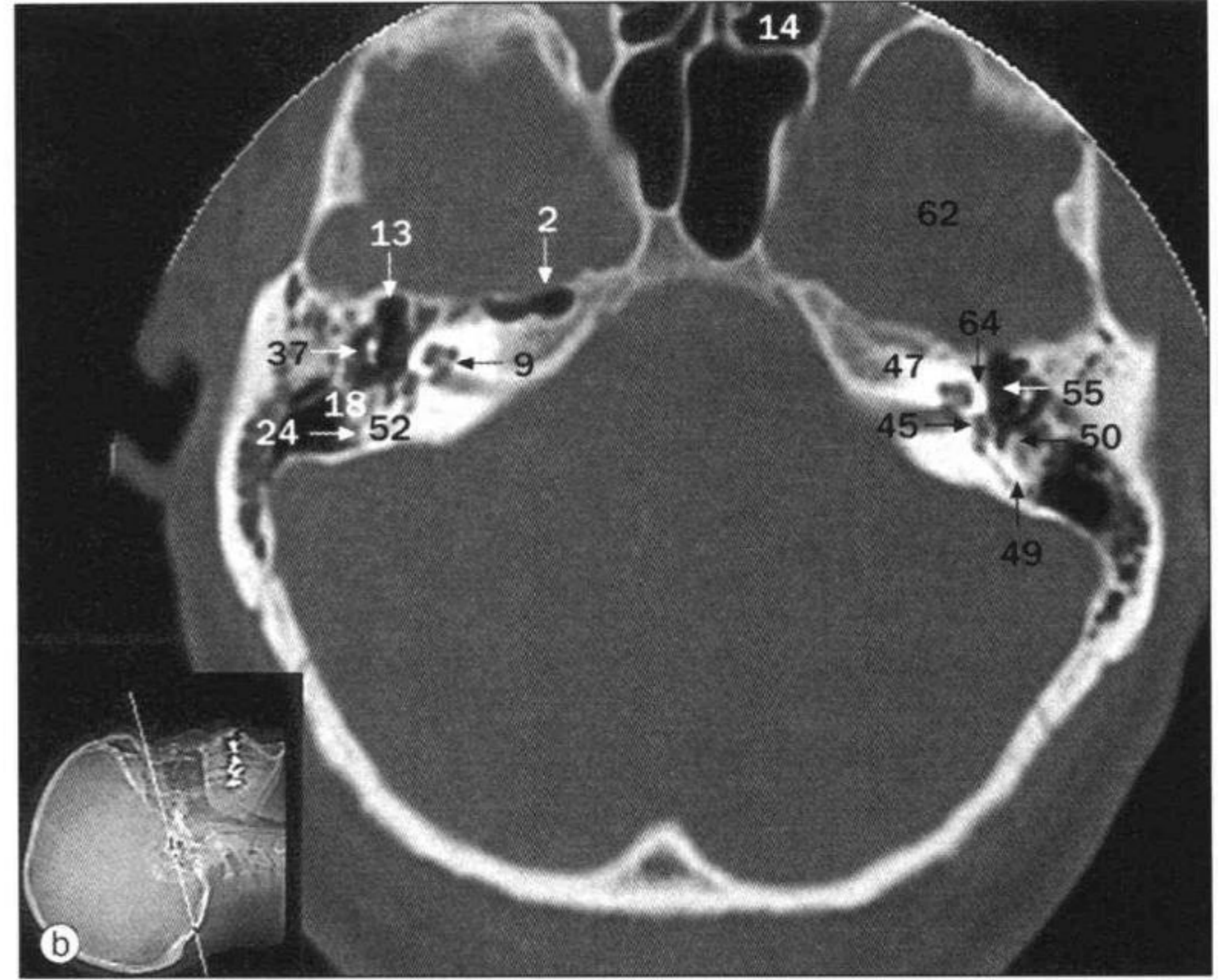
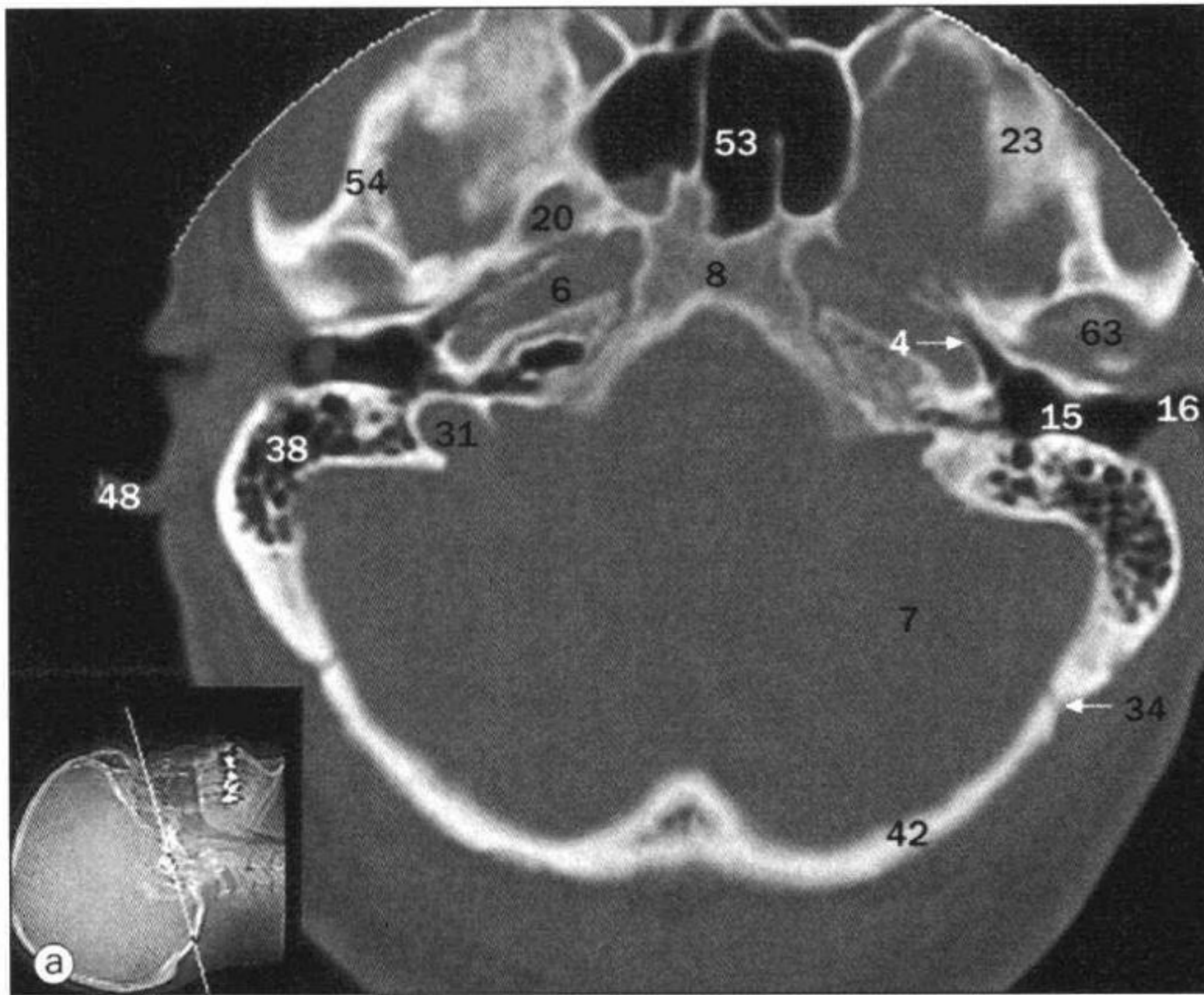
c



d

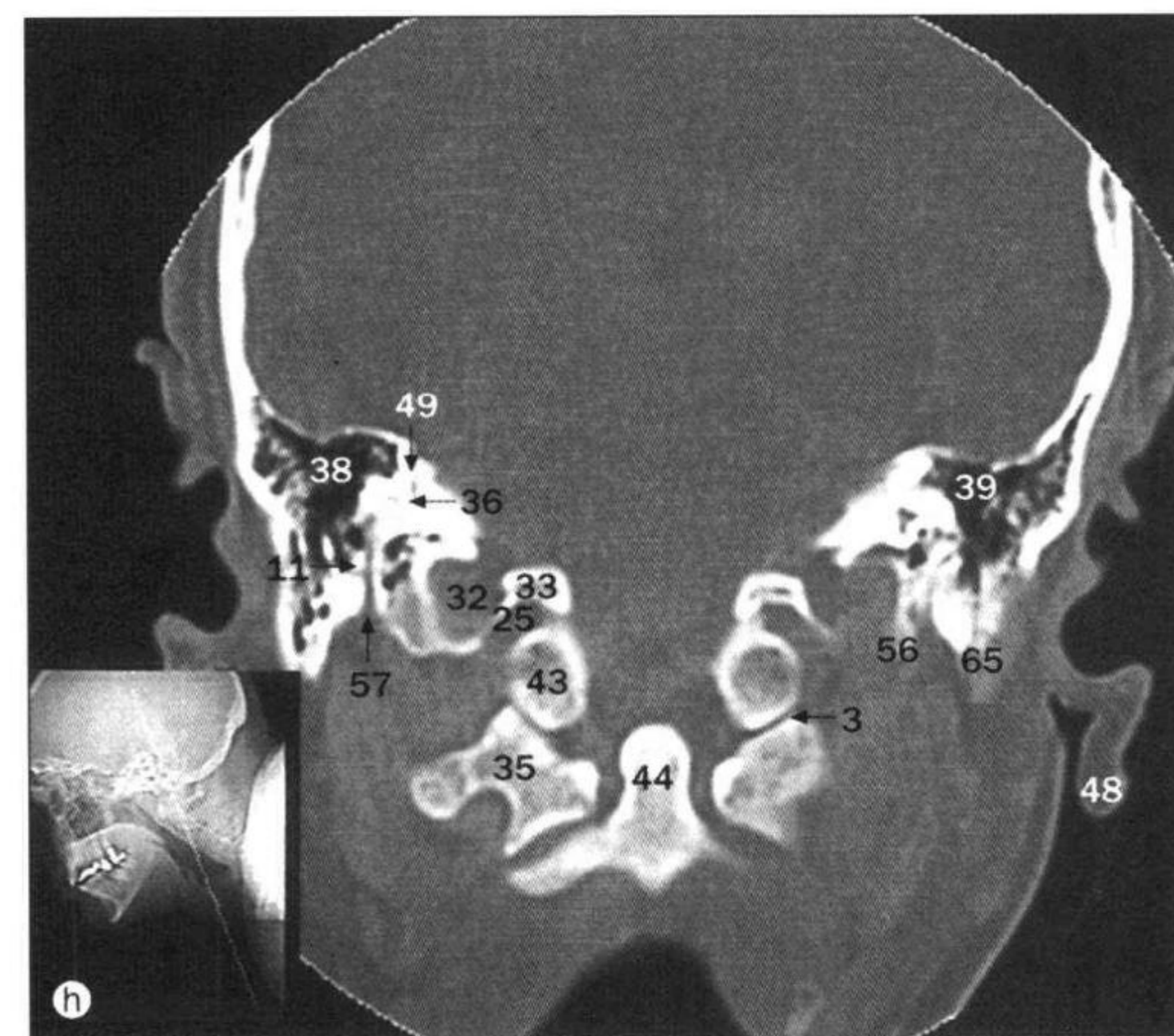
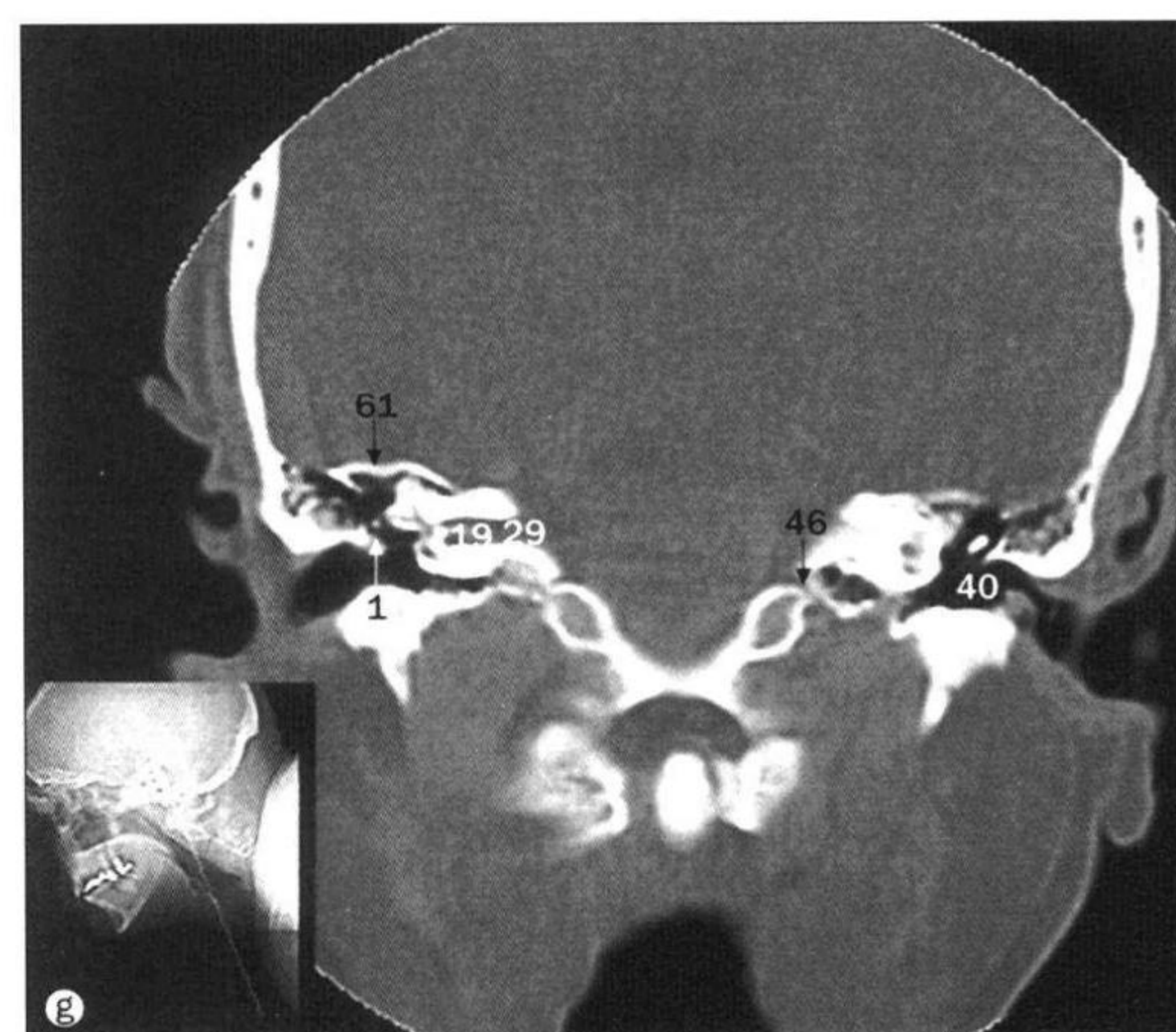
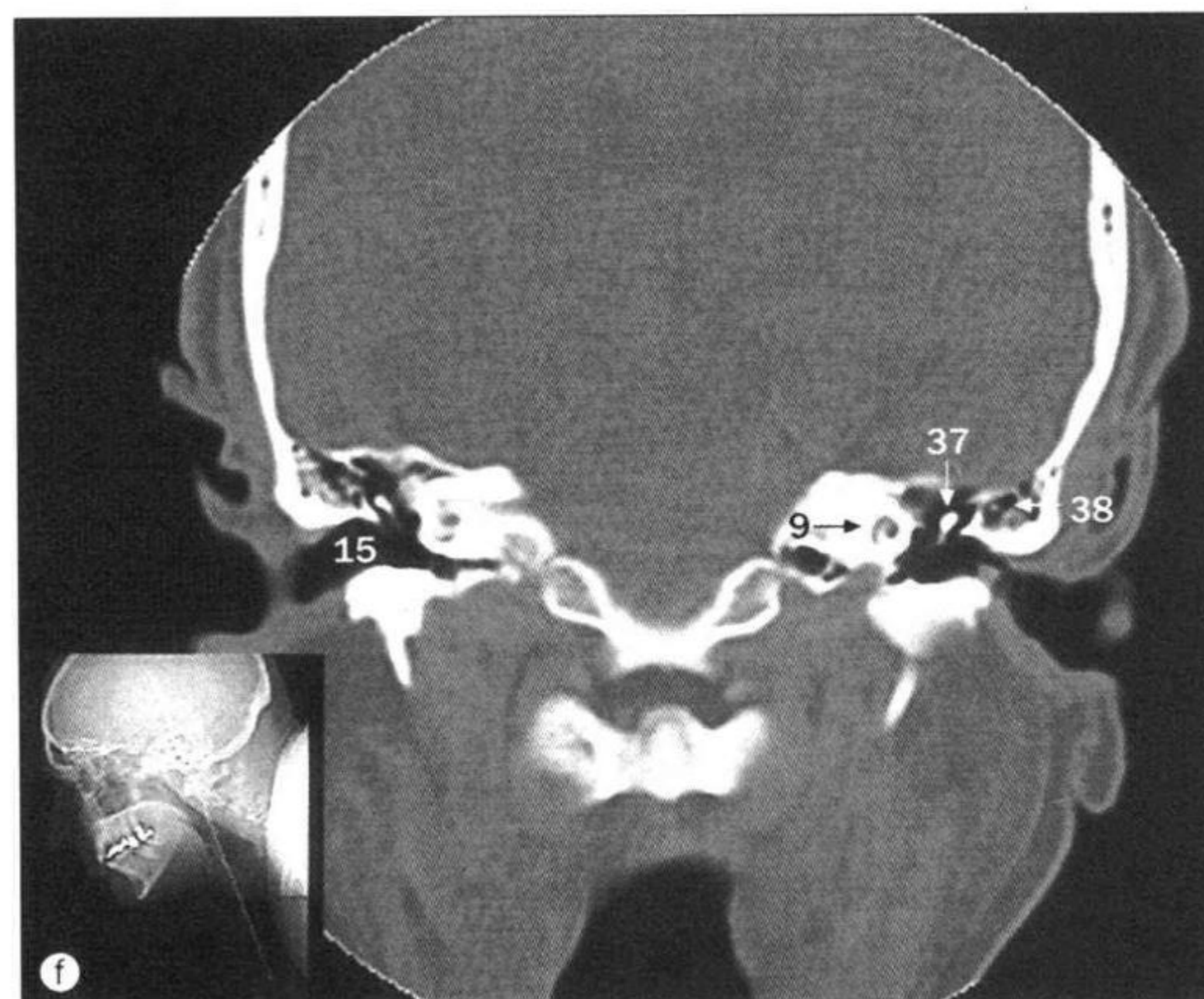
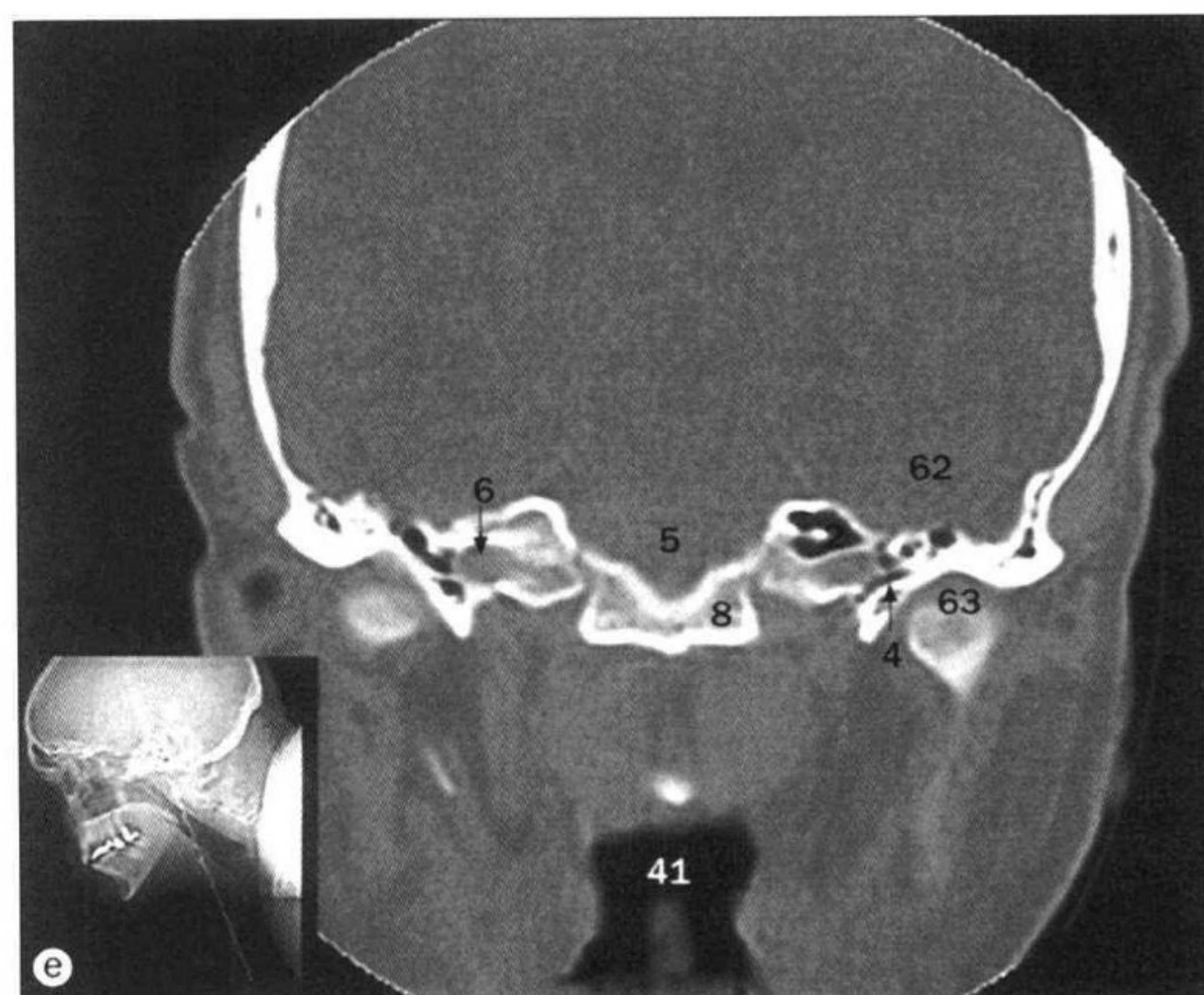
c. 颞骨, CT。
d. 颞骨, 轴位 MRI (经小脑脑桥角)。

- | | | |
|---|---|--------------------------------------|
| 1 展神经 abducens nerve | facial nerve (first part) | 18 锤骨 malleus |
| 2 乳突窦入口 aditus ad antrum | 10 膝神经节 geniculate ganglion | 19 乳突小房 mastoid air cells |
| 3 岩尖气房 aerated petrous apex | 11 砧锤关节 incudomalleolar joint | 20 脑桥 pons |
| 4 脑桥前池内的基底动脉 basilar artery in prepontine cistern | 12 砧骨 incus | 21 后半规管 posterior semicircular canal |
| 5 小脑半球 cerebellar hemisphere | 13 岩下窦 inferior petrosal sinus | 22 鼓室盾板 scutum |
| 6 耳蜗 cochlea | 14 内耳道 internal acoustic canal | 23 蝶窦 sphenoidal sinus |
| 7 鼓室上隐窝 epitympanum | 15 枕内隆凸 internal occipital protuberance | 24 眶上裂 superior orbital fissure |
| 8 面神经 facial nerve | 16 人字缝 lambdoid suture | 25 颞叶 temporal lobe |
| 9 面神经 (第 I 段) | 17 外半规管 lateral semicircular canal | 26 前庭 vestibule |
| | | 27 前庭蜗神经 vestibulocochlear nerve |



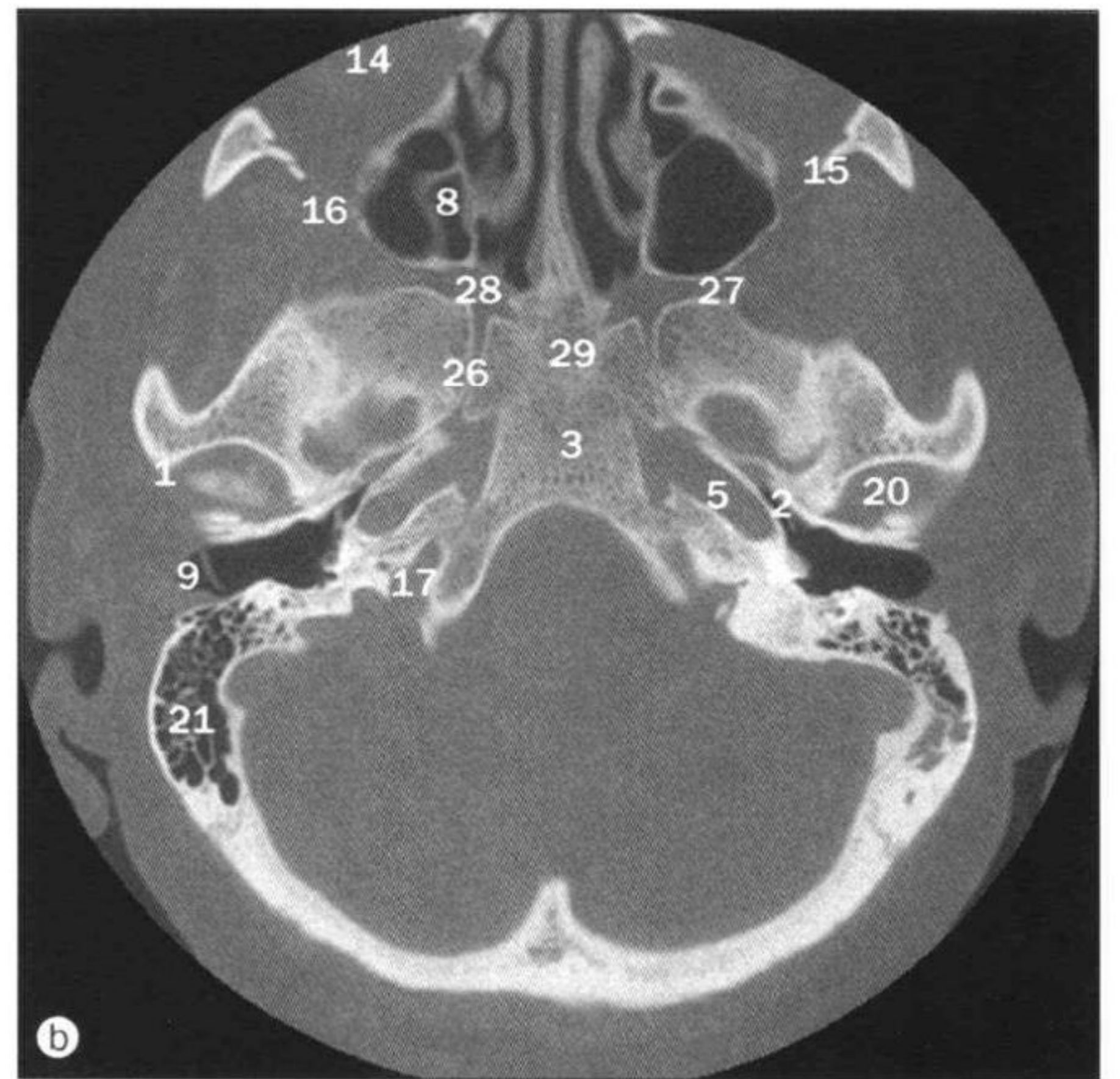
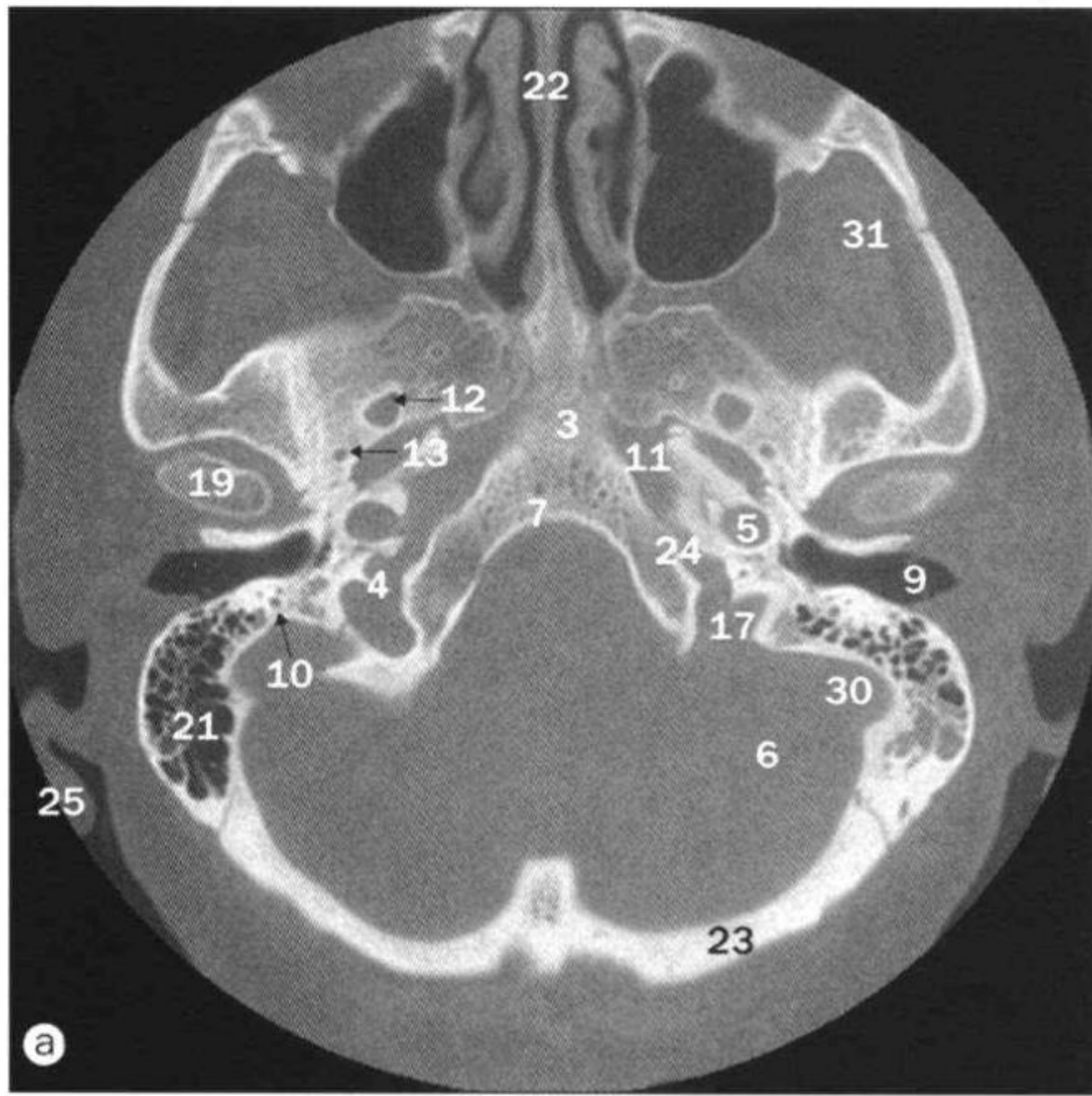
颞骨。a~d. 轴位 CT, 不同层面扫描: a. 外耳道; b. 耳蜗; c. 内耳道和前庭; d. 中耳上部和乳突。e~h. 冠状位 CT, 不同层面扫描: e. 颞下颌关节后方; f. 外耳门和前庭; g. 内耳门; h. 乳突。

- | | |
|---|--|
| 1 乳突突入口 aditus to antrum | 18 面神经隐窝 facial recess |
| 2 岩尖气房 aeration of petrous apex | 19 镰状嵴 falciform crest |
| 3 寰枕关节 atlanto-occipital joint | 20 卵圆孔 foramen ovale |
| 4 咽鼓管 auditory (Eustachian) tube | 21 膝神经节 geniculate ganglion |
| 5 脑干 brainstem | 22 岩大神经 greater petrosal nerve |
| 6 颈动脉管 carotid canal | 23 蝶骨大翼 greater wing of sphenoid |
| 7 小脑 cerebellum | 24 面神经管水平部
horizontal portion of canal for facial nerve |
| 8 斜坡 clivus | 25 舌下神经管 hypoglossal canal |
| 9 耳蜗 cochlea | 26 砧锤关节 incudomalleolar joint |
| 10 蜗水管 cochlear aqueduct | 27 砧骨 incus |
| 11 面神经降支 descending segment of facial nerve | 28 内耳道 internal acoustic canal |
| 12 鞍背 dorsum sellae | 29 内耳门 internal acoustic meatus |
| 13 鼓室上隐窝 epitympanic space | 30 枕内隆凸 internal occipital protuberance |
| 14 筛小房 ethmoidal air cells | 31 颈静脉孔 jugular foramen |
| 15 外耳道 external acoustic canal | 32 颈静脉窝 jugular fossa |
| 16 外耳门 external acoustic meatus | 33 颈静脉结节 jugular tubercle |
| 17 面神经 facial nerve | |



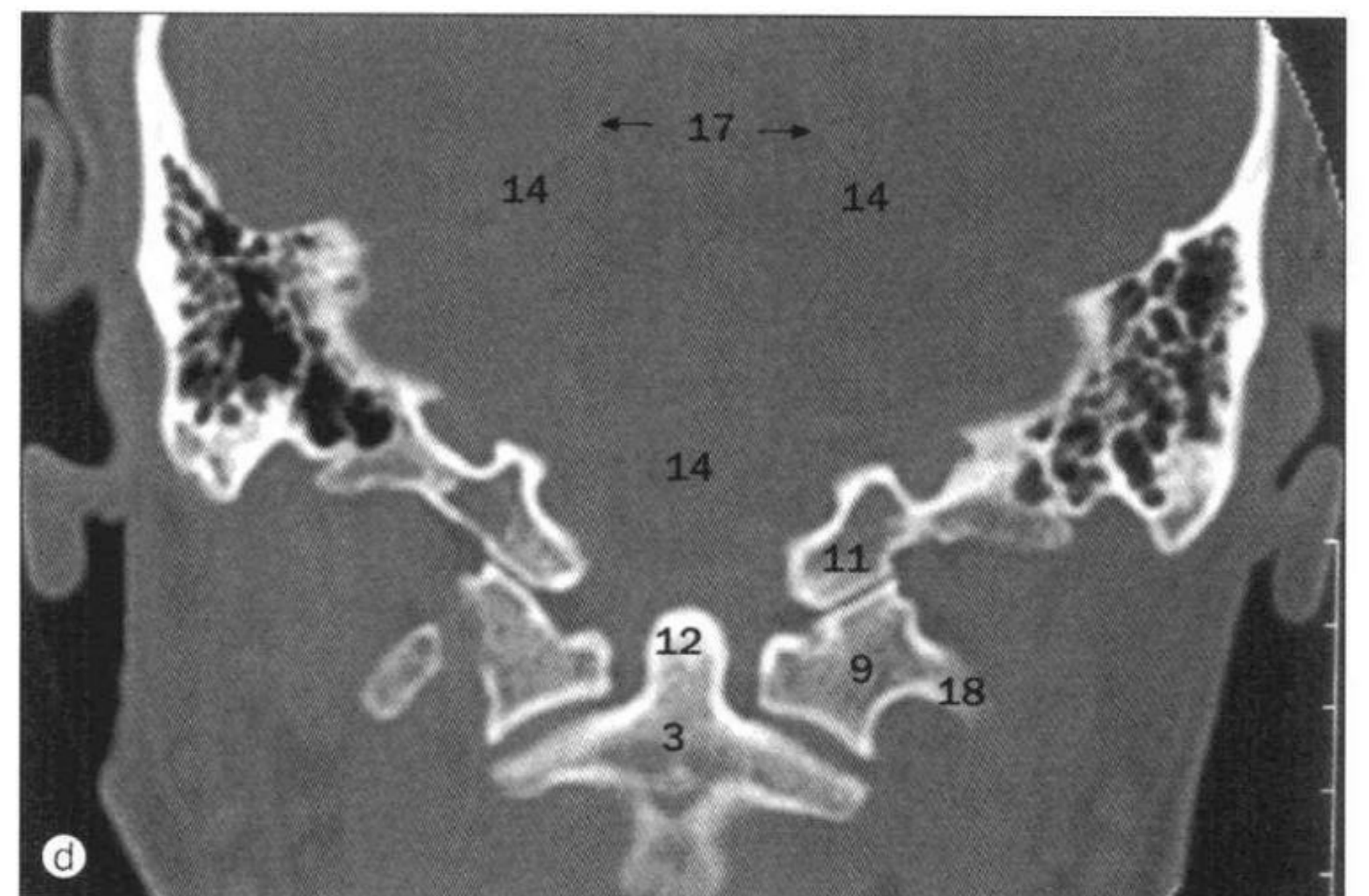
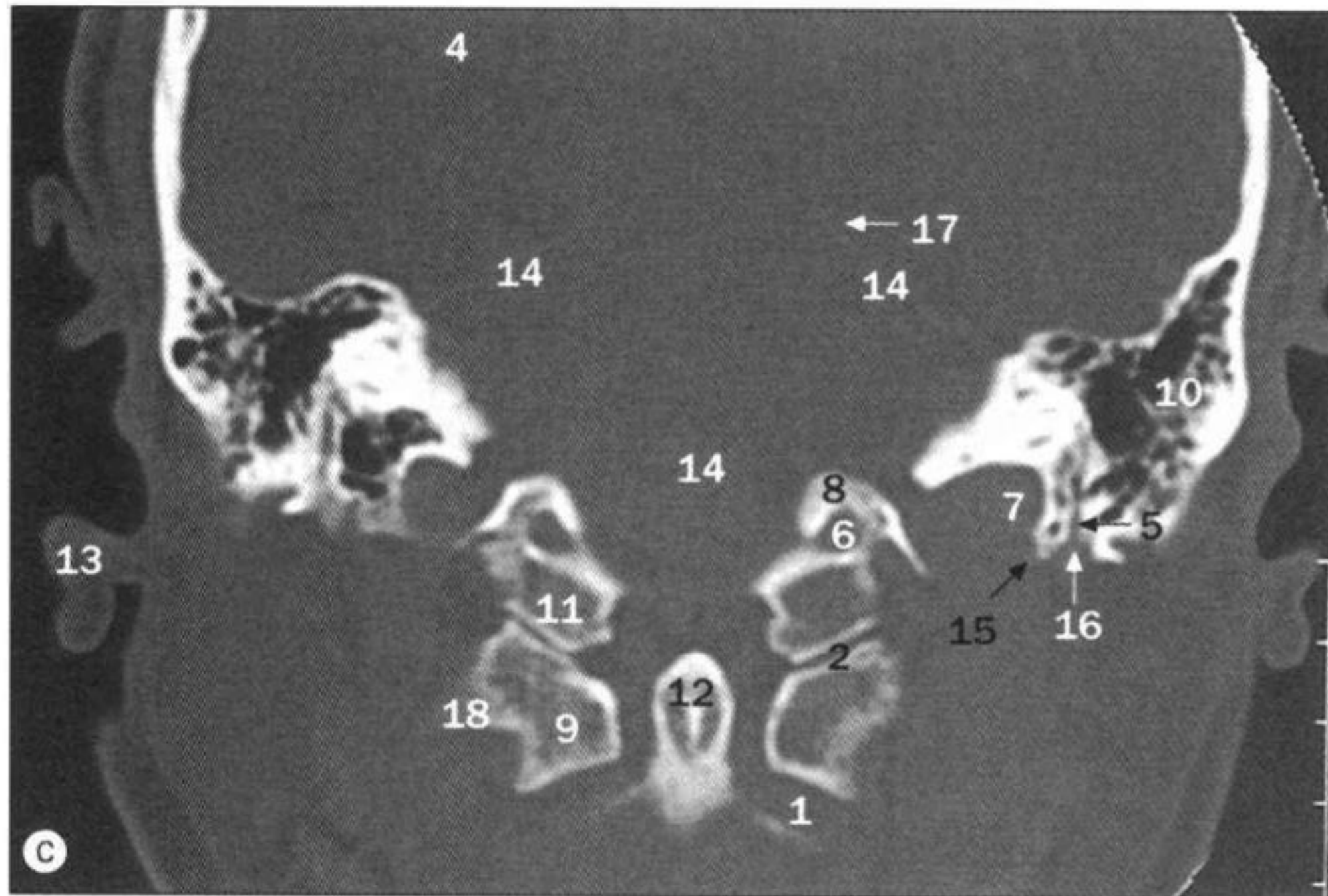
- 34 人字缝 lambdoid suture
- 35 寰椎侧块 lateral mass of atlas (first cervical vertebra)
- 36 外半规管 lateral semicircular canal
- 37 锤骨 malleus
- 38 乳突小房 mastoid air cells
- 39 乳突窦 mastoid antrum
- 40 中耳腔 middle ear cavity
- 41 鼻咽 nasopharynx
- 42 枕骨 occipital bone
- 43 枕髁 occipital condyle
- 44 齿突 odontoid process (dens)
- 45 卵圆窗 oval window
- 46 岩枕裂 petro-occipital fissure
- 47 颞骨岩部 petrous temporal bone
- 48 耳廓 pinna of ear
- 49 后半规管 posterior semicircular canal
- 50 锥隆起 pyramidal eminence

- 51 鼓室盾板 scutum
- 52 鼓窦 sinus tympani
- 53 蝶窦 sphenoidal sinus
- 54 颞骨鳞部 squamous temporal bone
- 55 镫骨 stapes
- 56 茎突 styloid process
- 57 茎乳孔 stylomastoid foramen
- 58 乙状窦沟 sulcus of sigmoid venous sinus
- 59 眶上裂 superior orbital fissure
- 60 上半规管 superior semicircular canal
- 61 鼓室盖 tegmen tympani
- 62 颞叶 temporal lobe
- 63 颞下颌关节 temporomandibular joint
- 64 鼓膜张肌 tensor tympani muscle
- 65 乳突尖 tip of mastoid process
- 66 前庭水管 vestibular aqueduct
- 67 前庭 vestibule



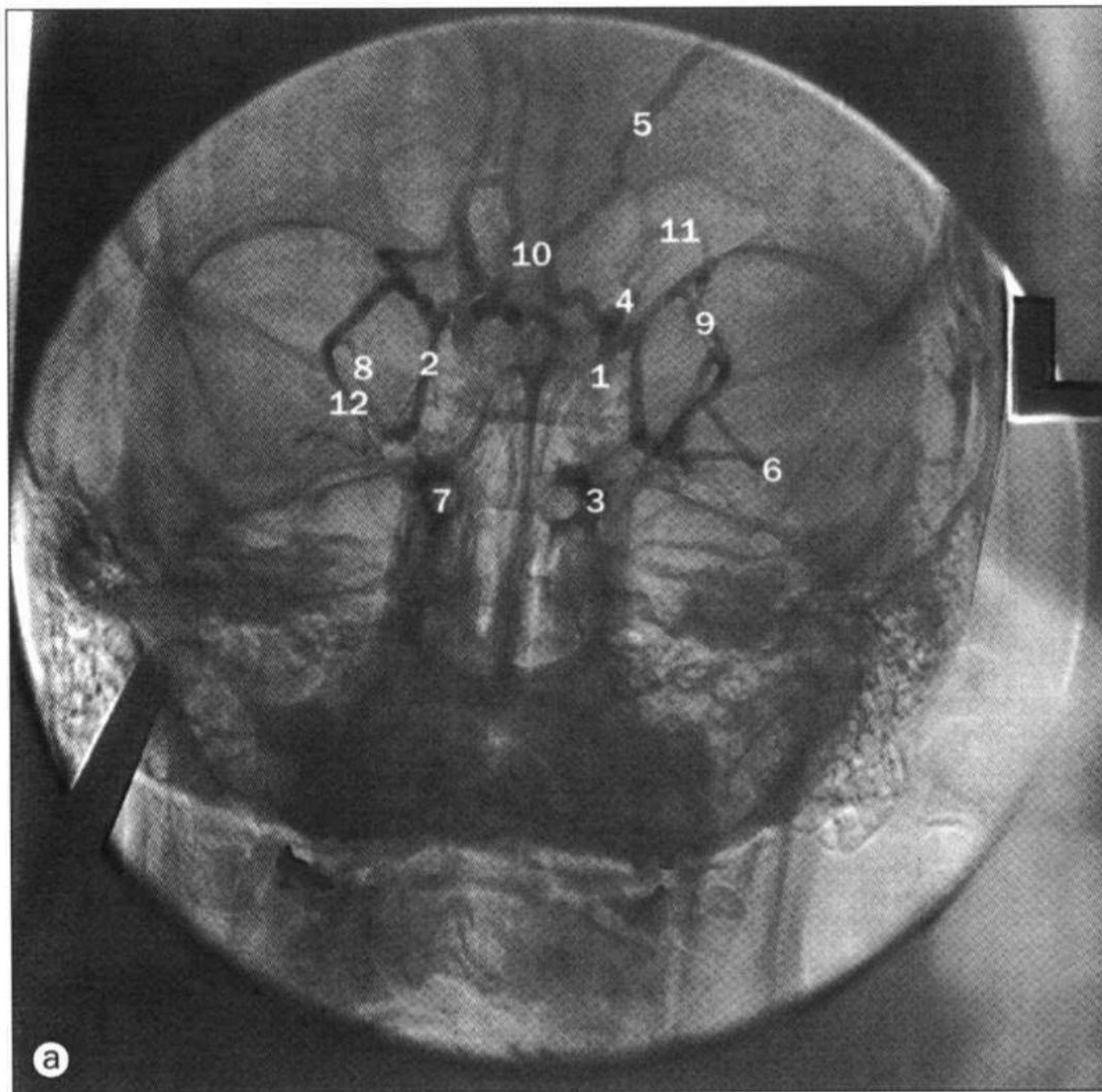
a, b. 颅底, 轴位 CT。

- | | | |
|----------------------------------|----------------------------------|--|
| 1 关节髁 articular condyle | 12 卵圆孔 foramen ovale | 23 枕骨 occipital bone |
| 2 咽鼓管 auditory (Eustachian) tube | 13 棘孔 foramen spinosum | 24 岩枕裂 petro-occipital fissure |
| 3 基蝶骨 basisphenoid | 14 眼球 globe | 25 耳廓 pinna of ear |
| 4 颈内动静脉嵴 caroticojugular spine | 15 蝶骨大翼 greater wing of sphenoid | 26 翼管 pterygoid (vidian) canal |
| 5 颈动脉管 carotid canal | 16 眶下裂 inferior orbital fissure | 27 翼上颌裂 pterygomaxillary fissure |
| 6 小脑半球 cerebellar hemisphere | 17 颈静脉孔 jugular foramen | 28 翼腭窝 pterygopalatine fossa |
| 7 斜坡 clivus | 18 晶状体 lens | 29 蝶窦 sphenoidal sinus |
| 8 筛小房 ethmoidal air cells | 19 下颌骨髁突 mandibular condyle | 30 乙状窦沟 sulcus of sigmoid venous sinus |
| 9 外耳门 external acoustic meatus | 20 下颌窝 mandibular fossa | 31 颞肌 temporalis muscle |
| 10 面神经管 facial nerve canal | 21 乳突小房 mastoid air cells | |
| 11 破裂孔 foramen lacerum | 22 鼻中隔 nasal septum | |



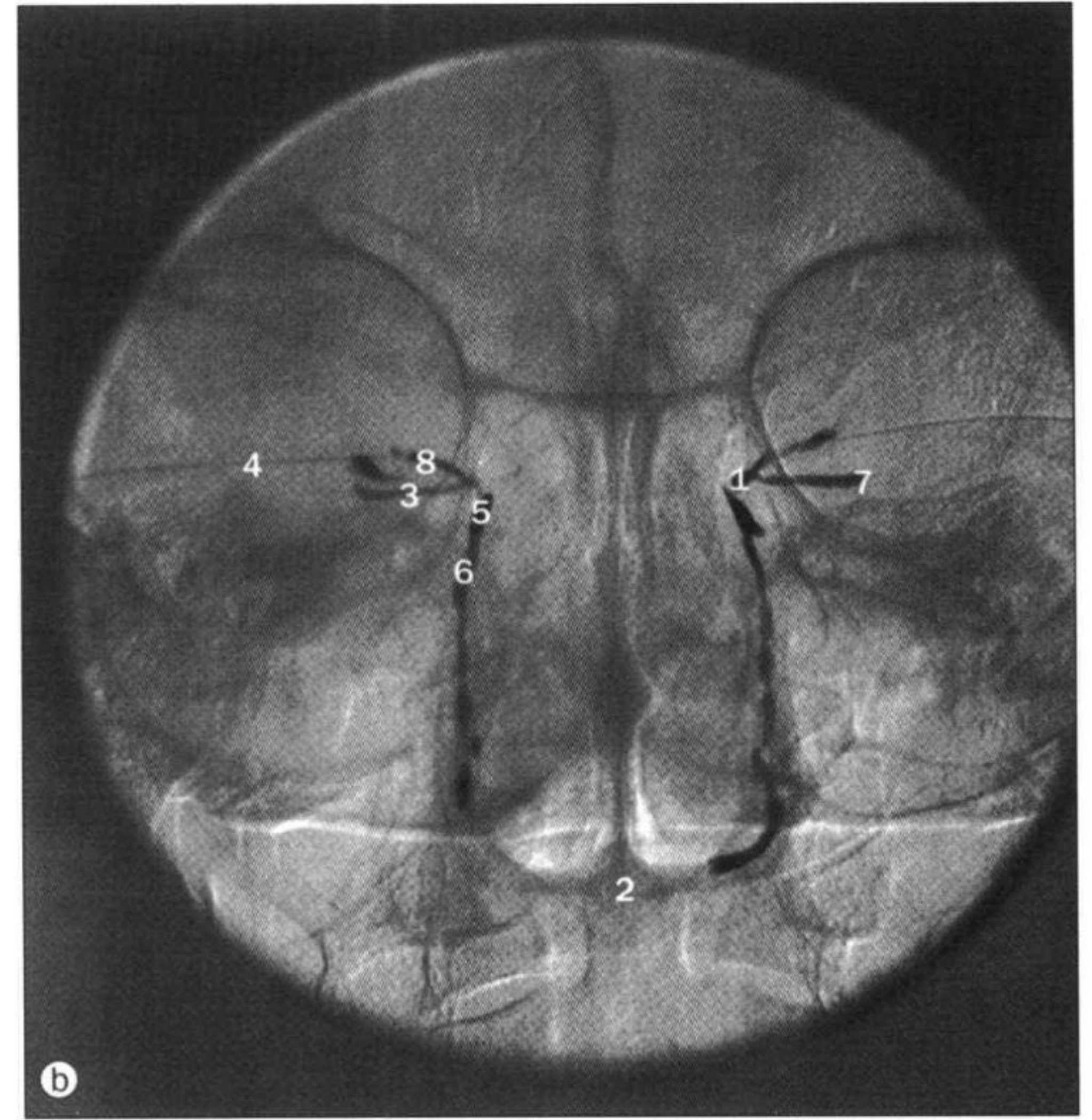
c, d. 颅底, 冠状位 CT。

- | | | |
|---|--|-------------------------------------|
| 1 寰枢关节 atlanto-axial joint | 7 颈静脉窝 jugular fossa | 13 耳廓 pinna of ear |
| 2 寰枕关节 atlanto-occipital joint | 8 颈静脉结节 jugular tubercle | 14 颅后窝 posterior fossa |
| 3 枢椎 axis (second cervical vertebra) | 9 寰椎侧块 lateral mass of atlas (first cervical vertebra) | 15 茎突 styloid process |
| 4 大脑半球 cerebral hemisphere | 10 乳突小房 mastoid air cells | 16 茎乳孔 stylomastoid foramen |
| 5 面神经管降部 descending segment of canal for facial nerve | 11 枕髁 occipital condyle | 17 小脑幕 tentorium cerebelli |
| 6 舌下神经管 hypoglossal canal | 12 齿突 odontoid process (dens) | 18 寰椎横突 transverse process of atlas |



a. 眶静脉造影。

- 1 内眦静脉 angular veins
- 2 前连结静脉 anterior collateral vein
- 3 海绵窦 cavernous sinus
- 4 眼上静脉第1部分 first part of superior ophthalmic vein
- 5 额叶静脉 frontal veins
- 6 眼下静脉 inferior ophthalmic vein
- 7 颈内动脉 internal carotid artery
- 8 中连结静脉 medial collateral vein
- 9 眼上静脉第2部分 second part of superior ophthalmic vein
- 10 浅连结静脉 superficial connecting vein
- 11 眶上静脉 supraorbital vein
- 12 眼上静脉第3部分 third part of superior ophthalmic vein

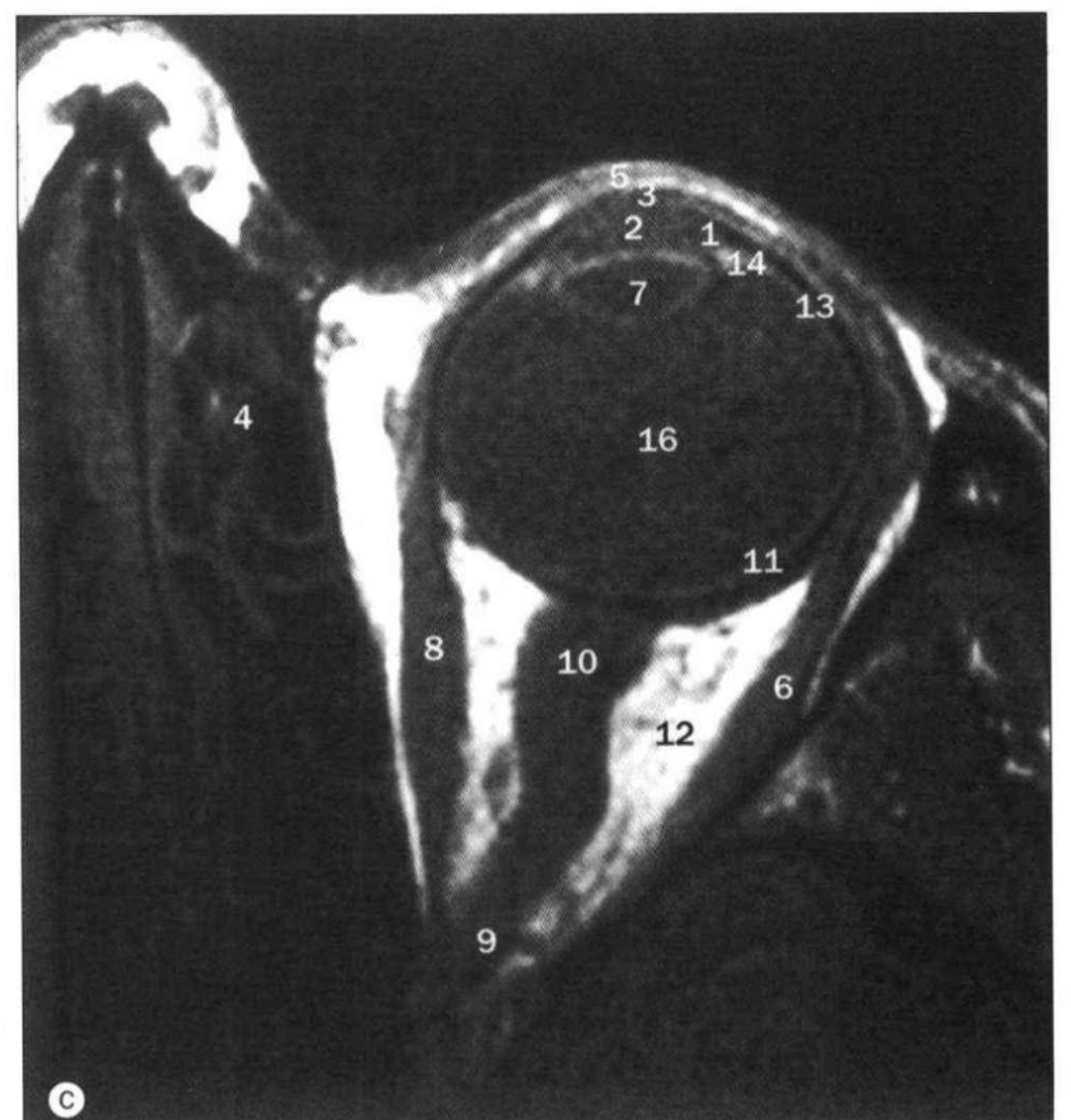


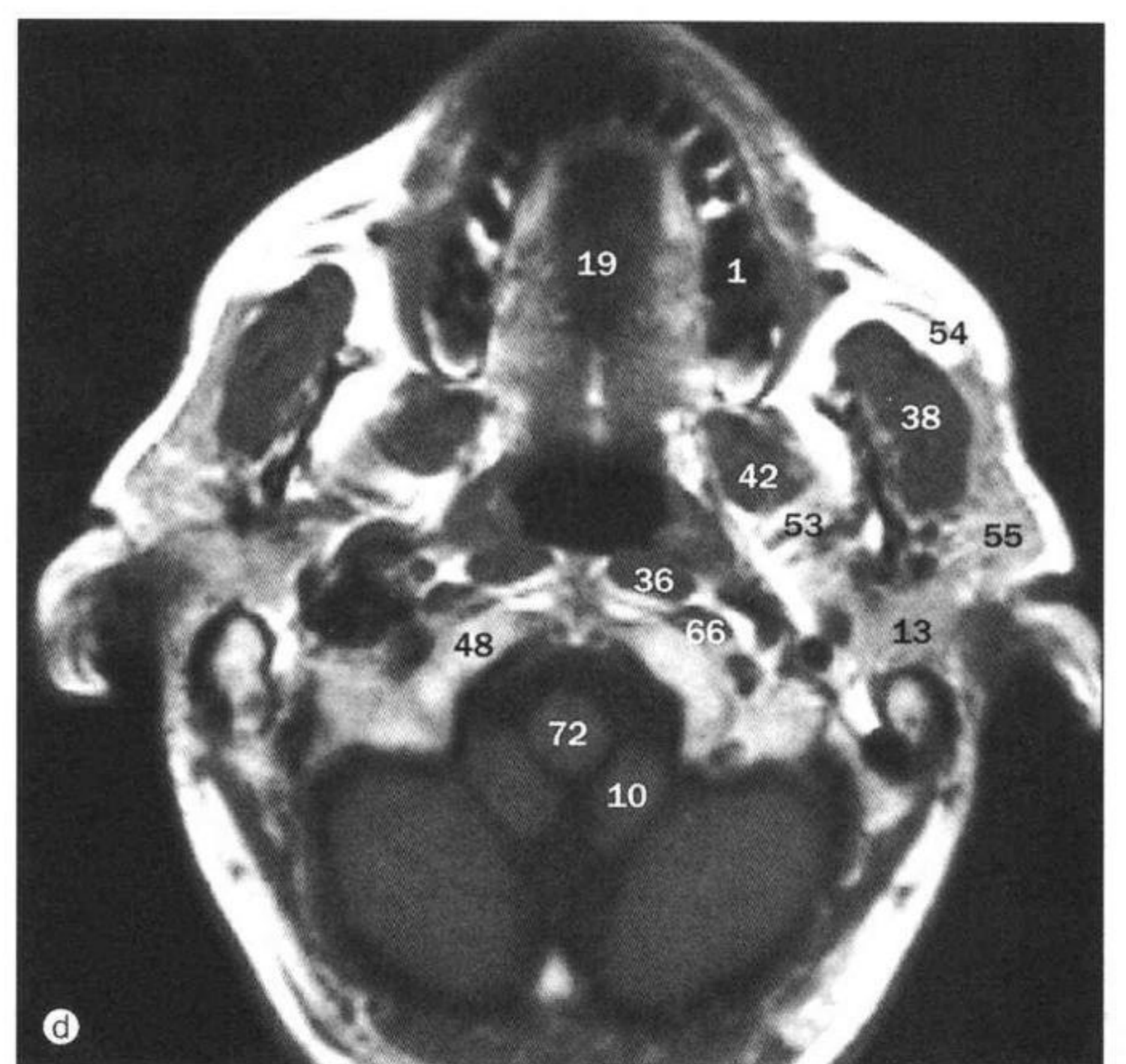
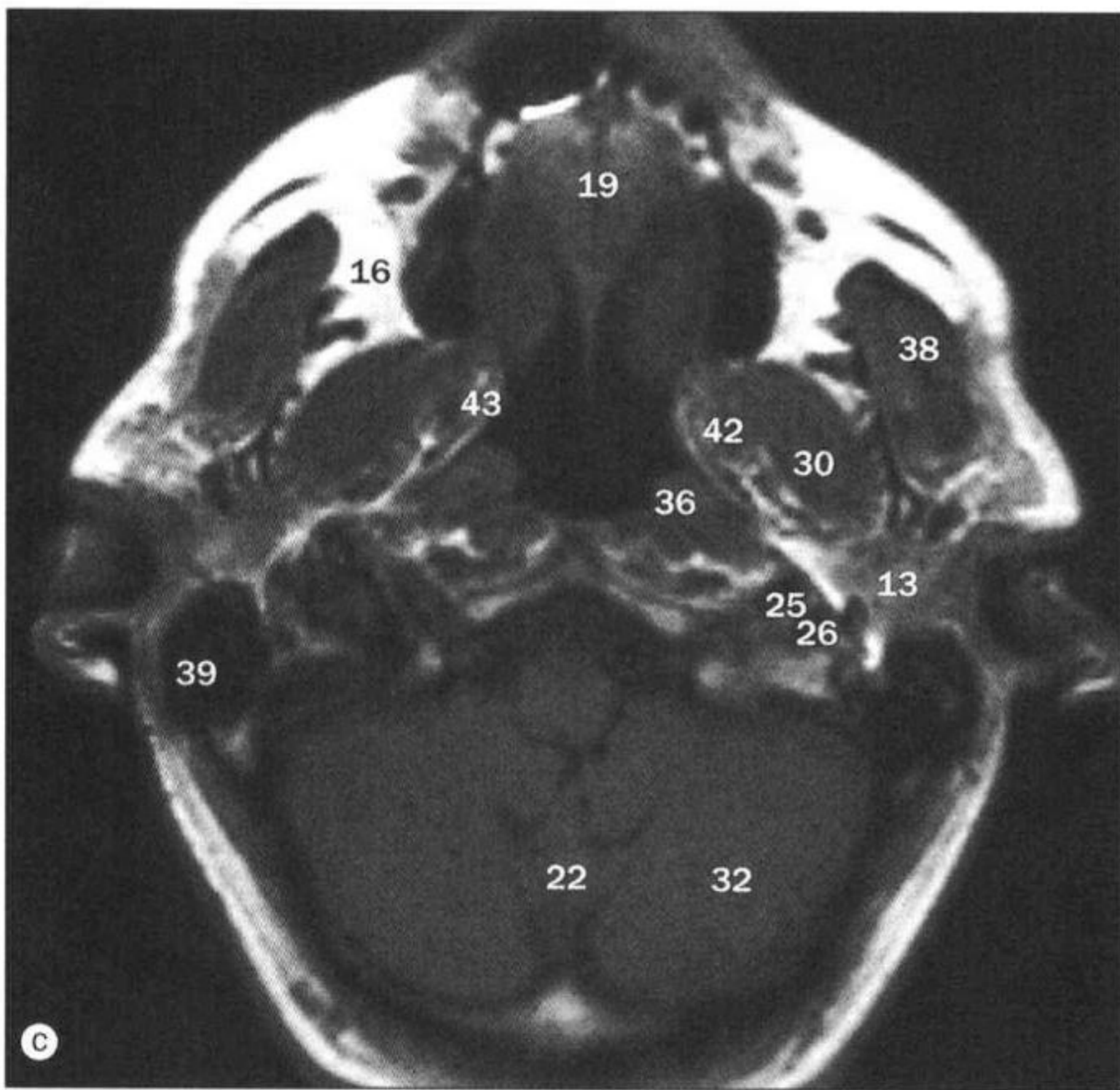
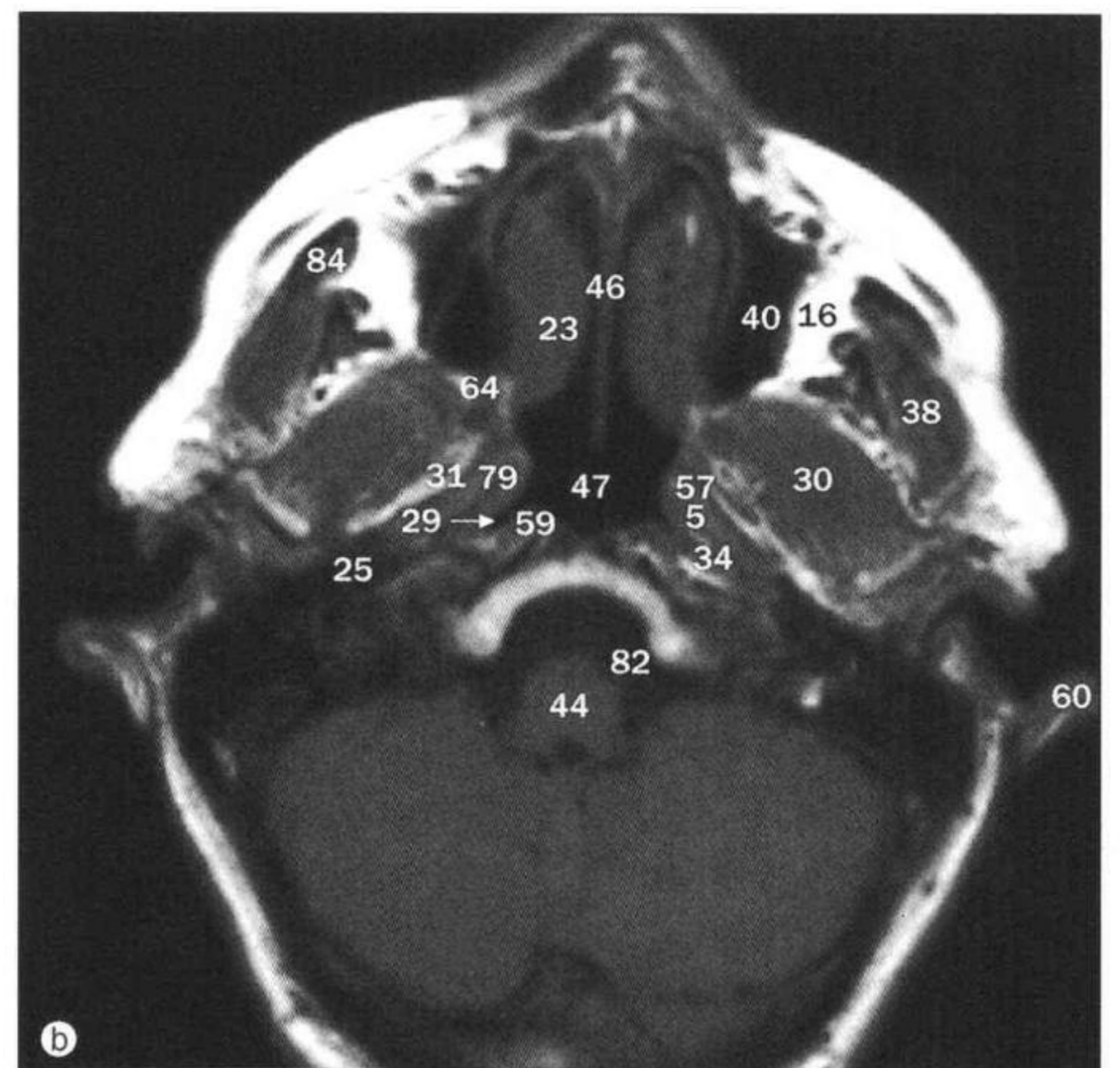
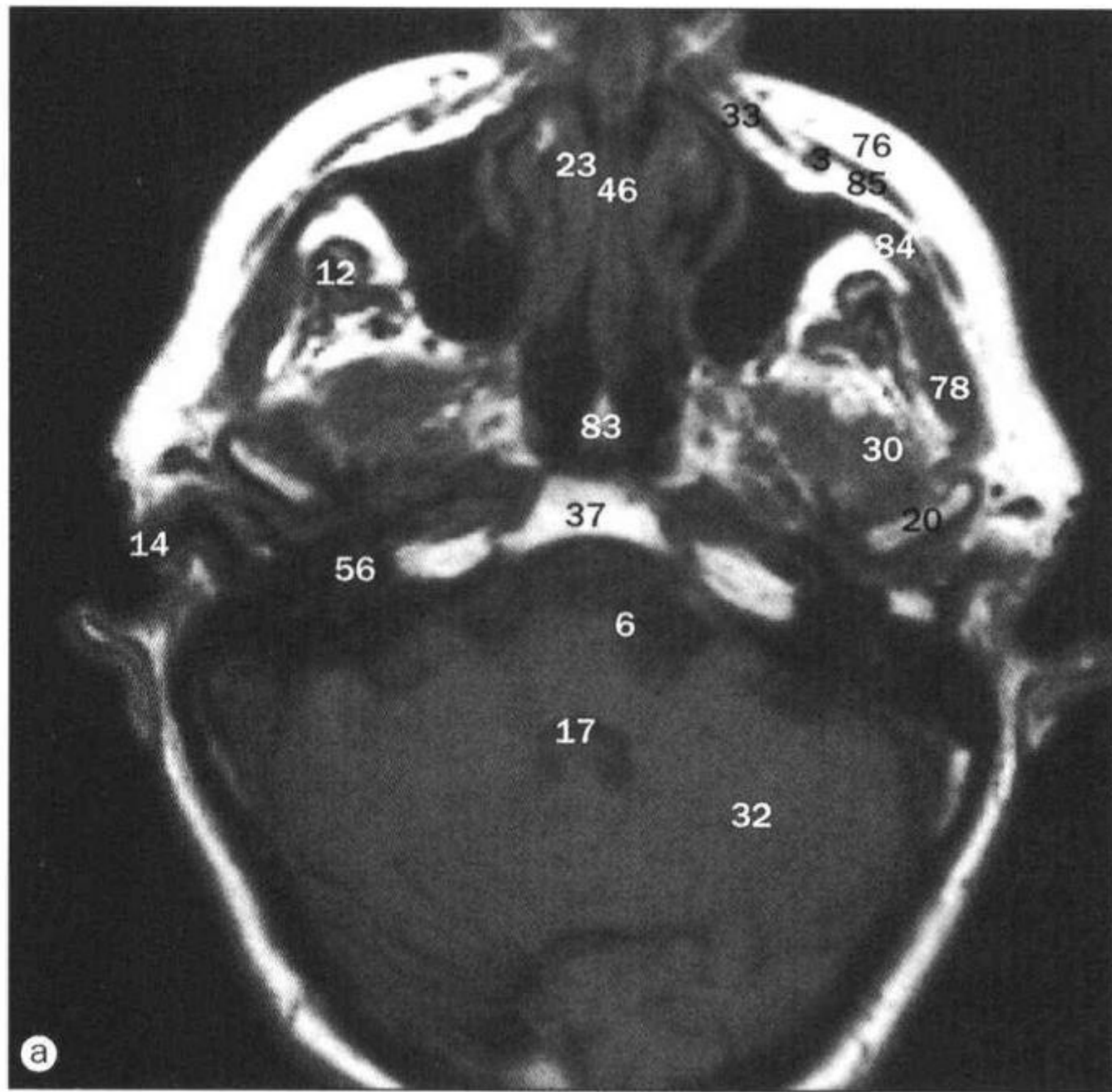
b. 放大泪囊造影。

- 1 泪总管 common canaliculus
- 2 硬腭 hard palate
- 3 下泪小管 inferior canaliculus
- 4 泪小管 lacrimal catheters
- 5 泪囊 lacrimal sac
- 6 鼻泪管 nasolacrimal duct
- 7 泪点 site of lacrimal punctum
- 8 上泪小管 superior canaliculus

- 1 前房 anterior chamber
- 2 房水 aqueous humour
- 3 角膜 cornea
- 4 筛窦 ethmoidal sinuses
- 5 眼睑 eyelid
- 6 外直肌 lateral rectus muscle
- 7 晶状体 lens
- 8 内直肌 medial rectus muscle
- 9 眼动脉 ophthalmic artery
- 10 视神经 optic nerve
- 11 视网膜和脉络膜 retina and choroid
- 12 眶后脂肪 retro-orbital fat
- 13 巩膜 sclera
- 14 睫状小带 suspensory ligament of the lens
- 15 颞肌 temporalis muscle
- 16 玻璃体 vitreous

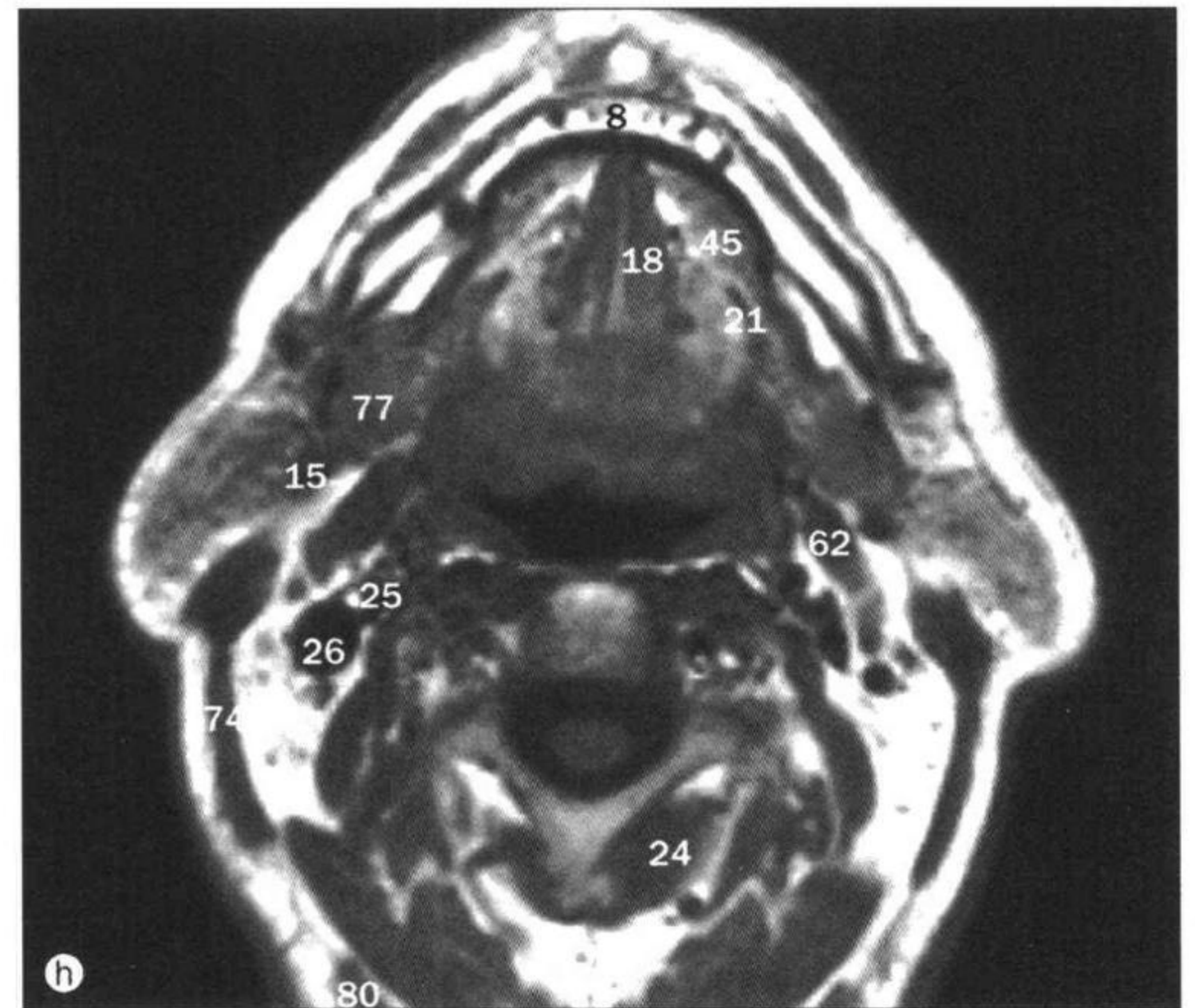
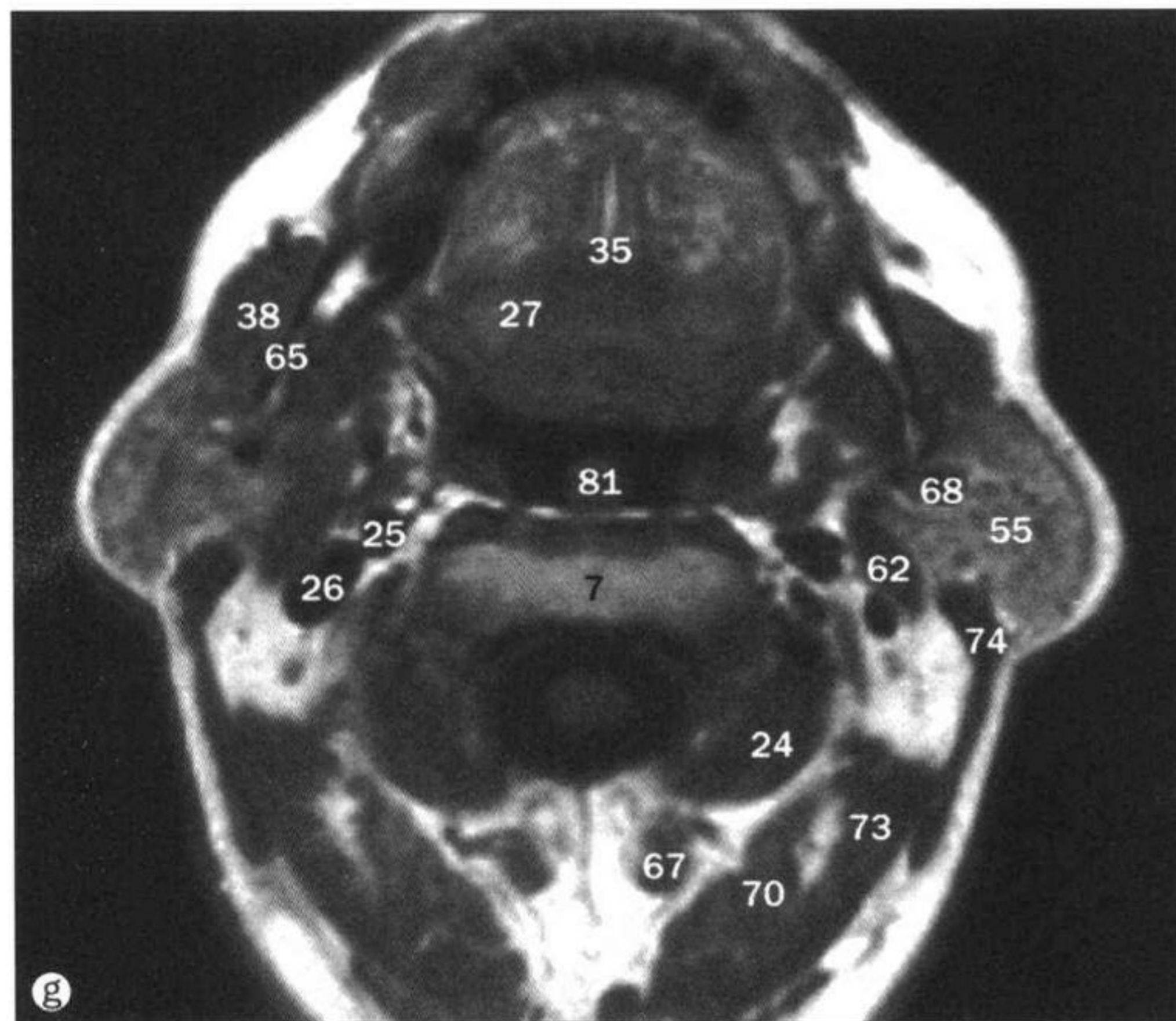
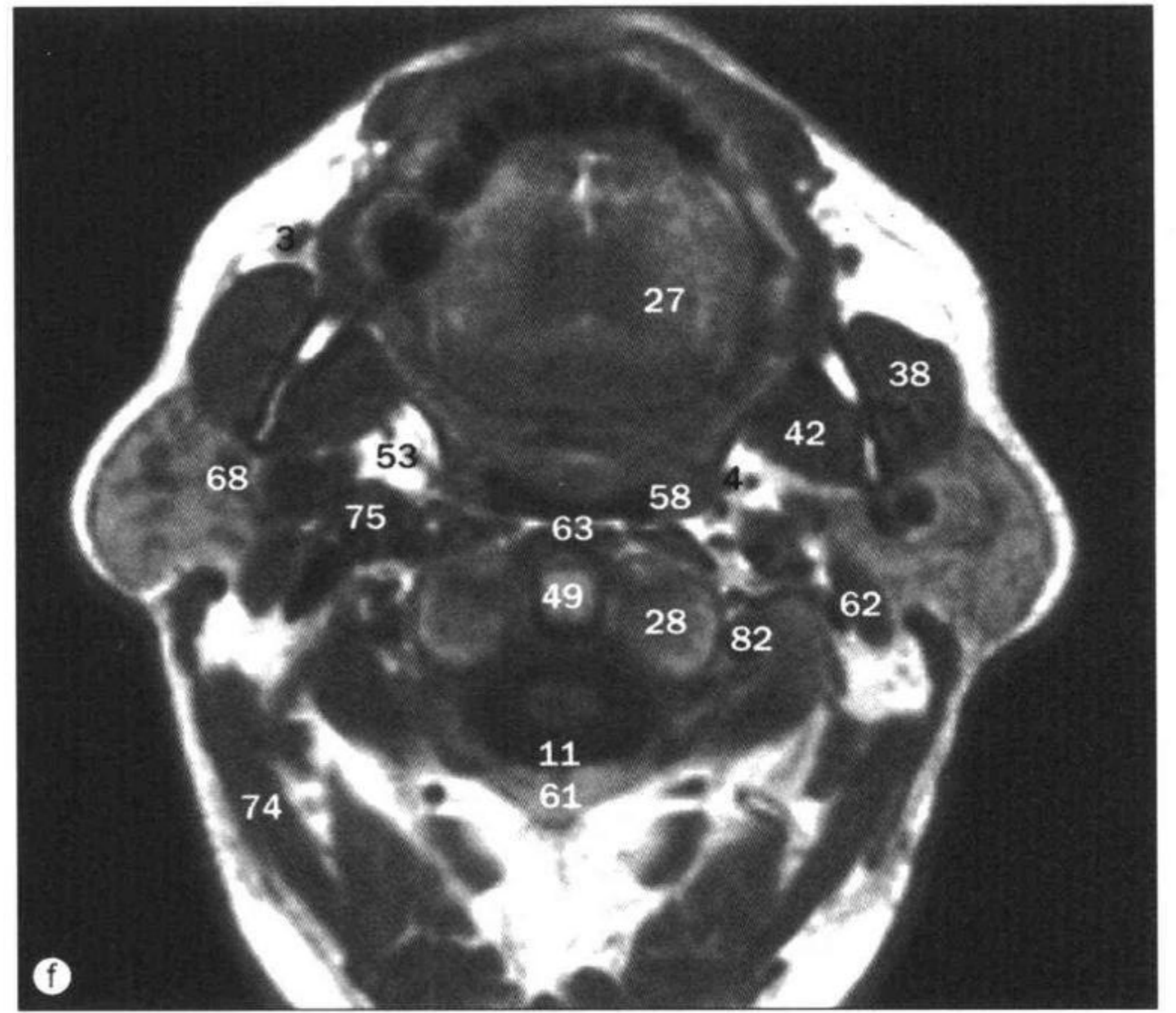
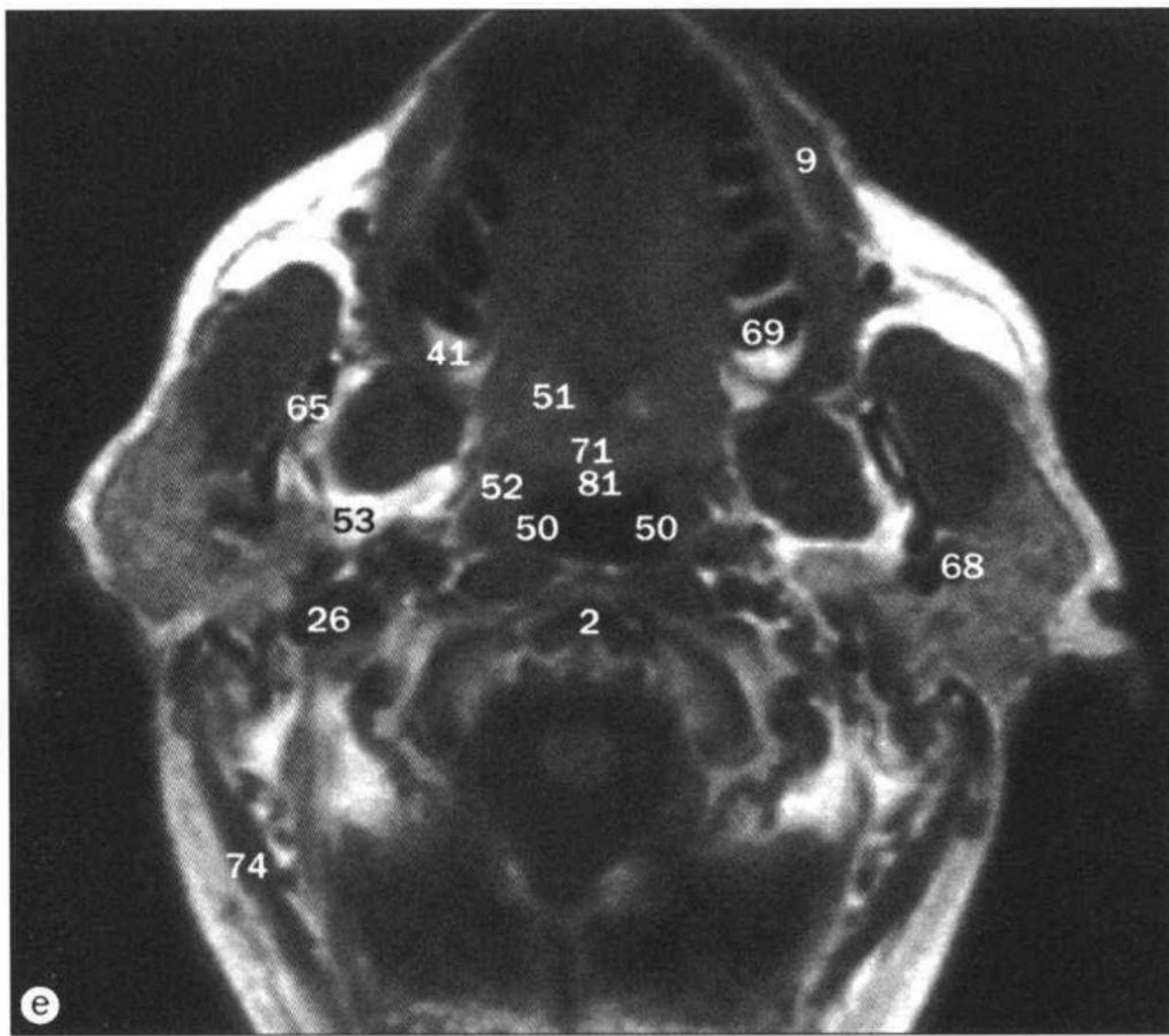
c. 眼球，轴位 MRI。



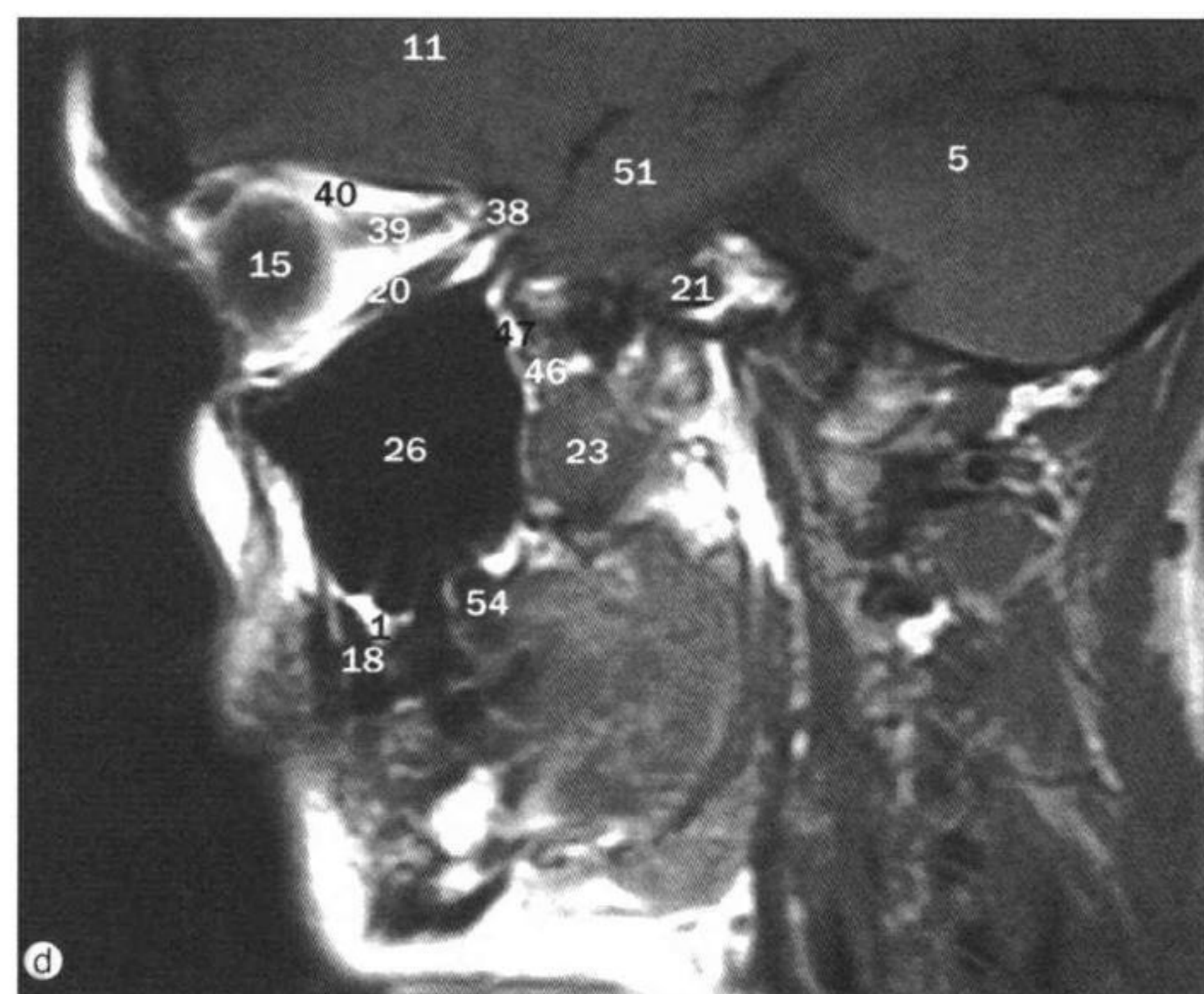
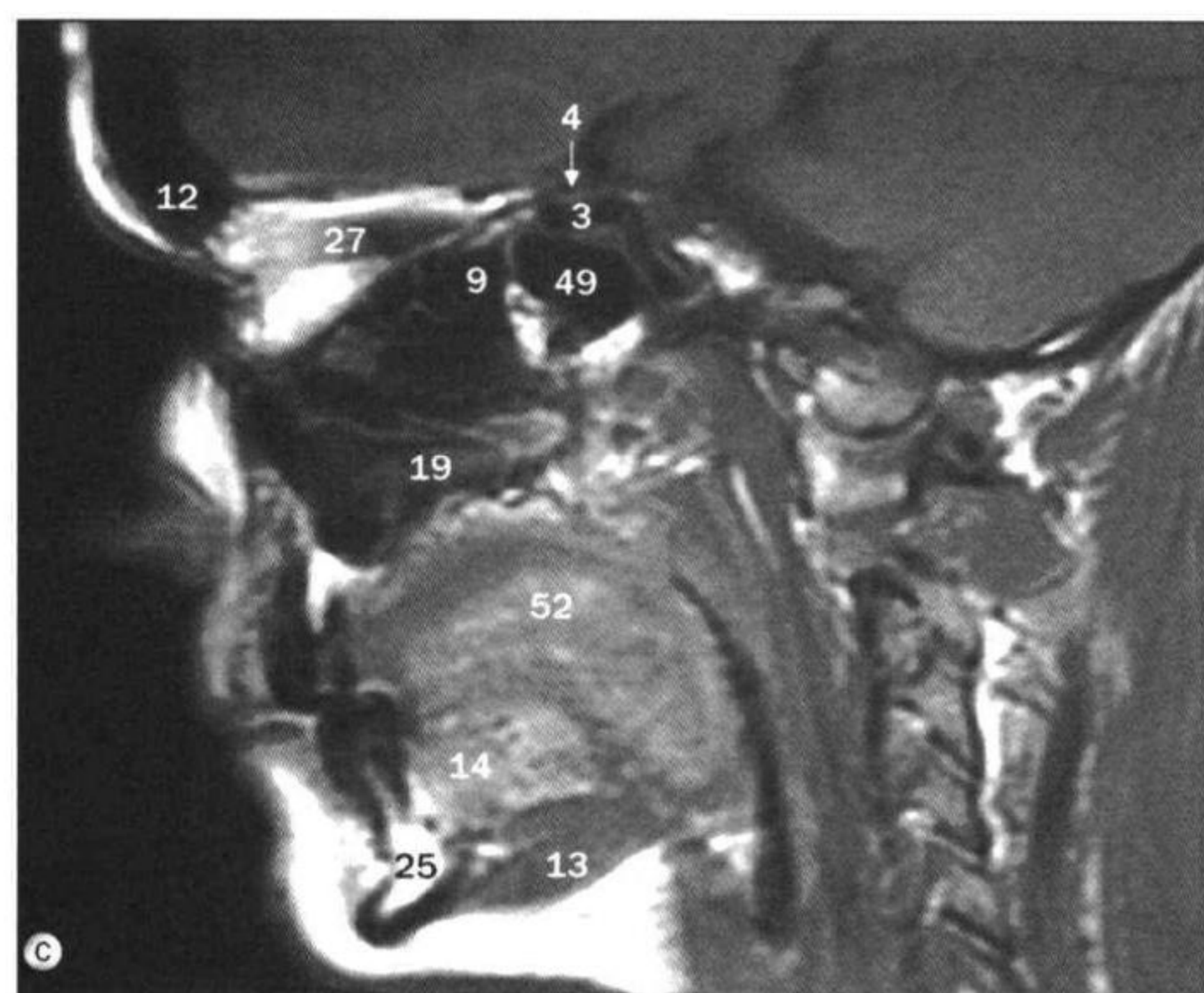
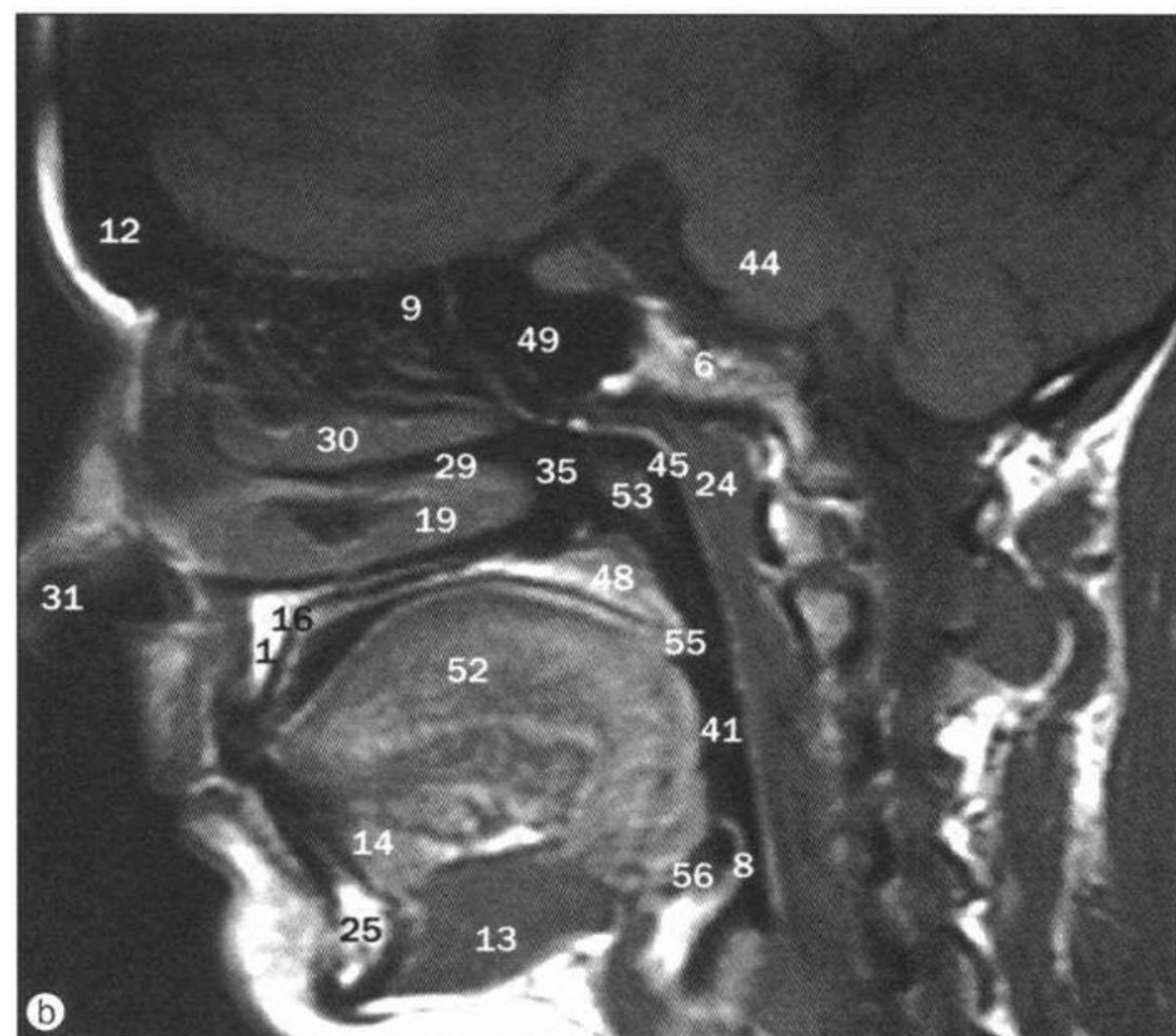
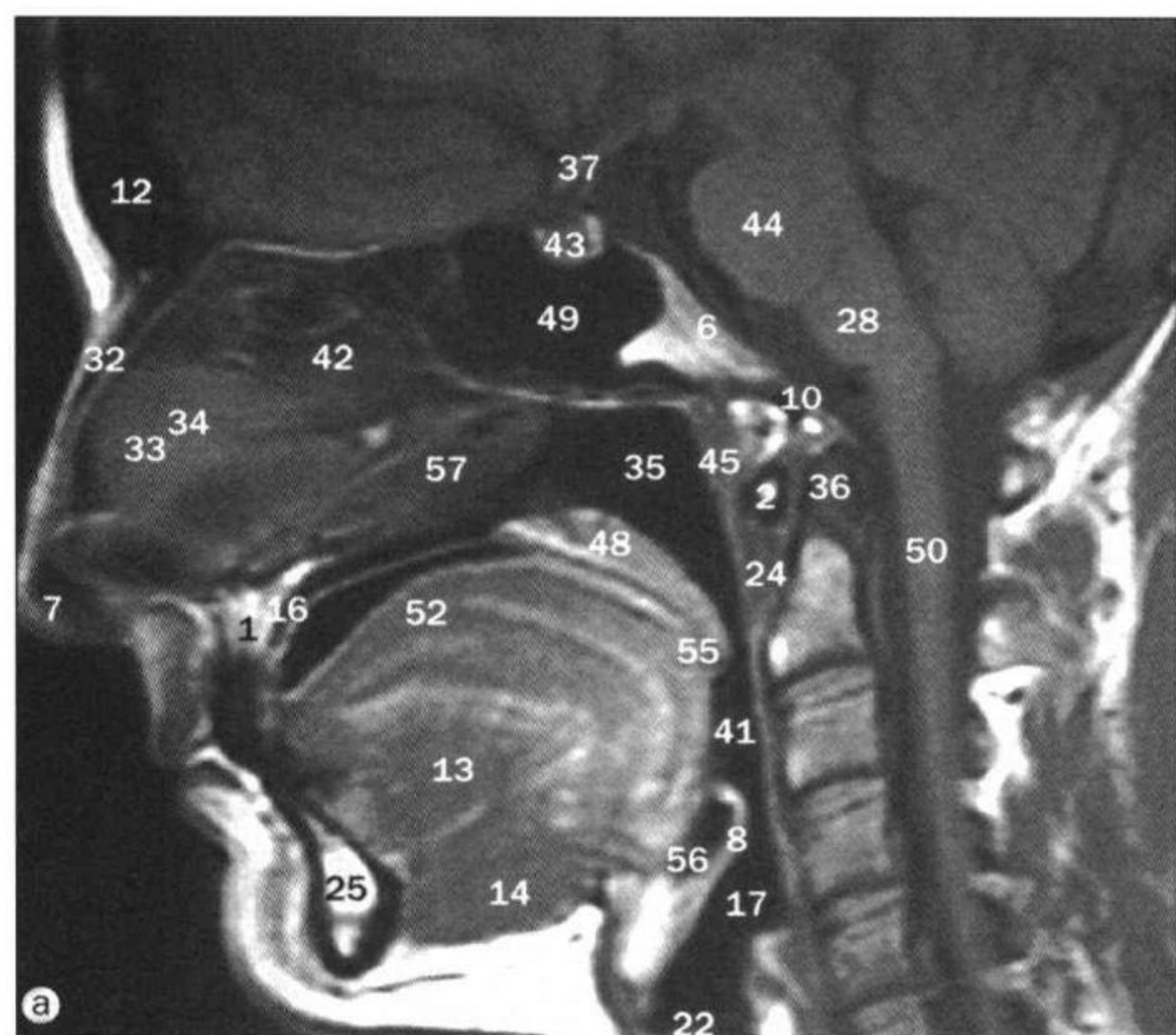


a~h. 鼻咽和口咽, 轴位 MRI。

- | | | |
|---|--|---|
| 1 上颌骨牙槽突
alveolar process of maxilla | 14 外耳道 external acoustic canal | 30 翼外肌 lateral pterygoid muscle |
| 2 寰椎前弓 anterior arch of atlas | 15 颈外动脉 external carotid artery | 31 翼突外侧板 lateral pterygoid plate |
| 3 面前静脉 anterior facial vein | 16 颞下窝脂肪 fat in infratemporal fossa | 32 左侧小脑半球
left cerebellar hemisphere |
| 4 咽升动脉 ascending pharyngeal artery | 17 第4脑室 fourth ventricle | 33 提上唇鼻翼肌 levator labii superioris
alaeque nasi muscle |
| 5 咽鼓管 auditory (Eustachian) tube | 18 颏舌肌 genioglossus muscle | 34 腭帆提肌
levator veli palatini muscle |
| 6 基底动脉 basilar artery | 19 硬腭 hard palate | 35 舌中隔 lingual septum |
| 7 枢椎椎体 body of axis
(second cervical vertebra) | 20 下颌头 head of mandible | 36 头长肌 longus capitis muscle |
| 8 下颌体 body of mandible | 21 舌骨舌肌 hyoglossus muscle | 37 斜坡骨髓 marrow of clivus |
| 9 颊肌 buccinator muscle | 22 小脑下蚓部 inferior cerebellar vermis | 38 咬肌 masseter muscle |
| 10 小脑扁桃体 cerebellar tonsils | 23 下鼻甲 inferior nasal concha | 39 乳突 mastoid process |
| 11 蛛网膜下隙的脑脊液 cerebrospinal
fluid in subarachnoid space | 24 下斜肌 inferior oblique muscle | 40 上颌窦 maxillary sinus (antrum) |
| 12 下颌骨冠突
coronoid process of mandible | 25 颈内动脉 internal carotid artery | 41 上颌结节 maxillary tuberosity |
| 13 腮腺深部 deep lobe of parotid gland | 26 颈内静脉 internal jugular vein | 42 翼内肌 medial pterygoid muscle |
| | 27 舌固有肌 intrinsic muscles of tongue | 43 翼突内侧板 medial pterygoid plate |
| | 28 寰椎侧块 lateral mass of atlas
(first cervical vertebra) | |
| | 29 外咽隐窝 lateral pharyngeal recess | |

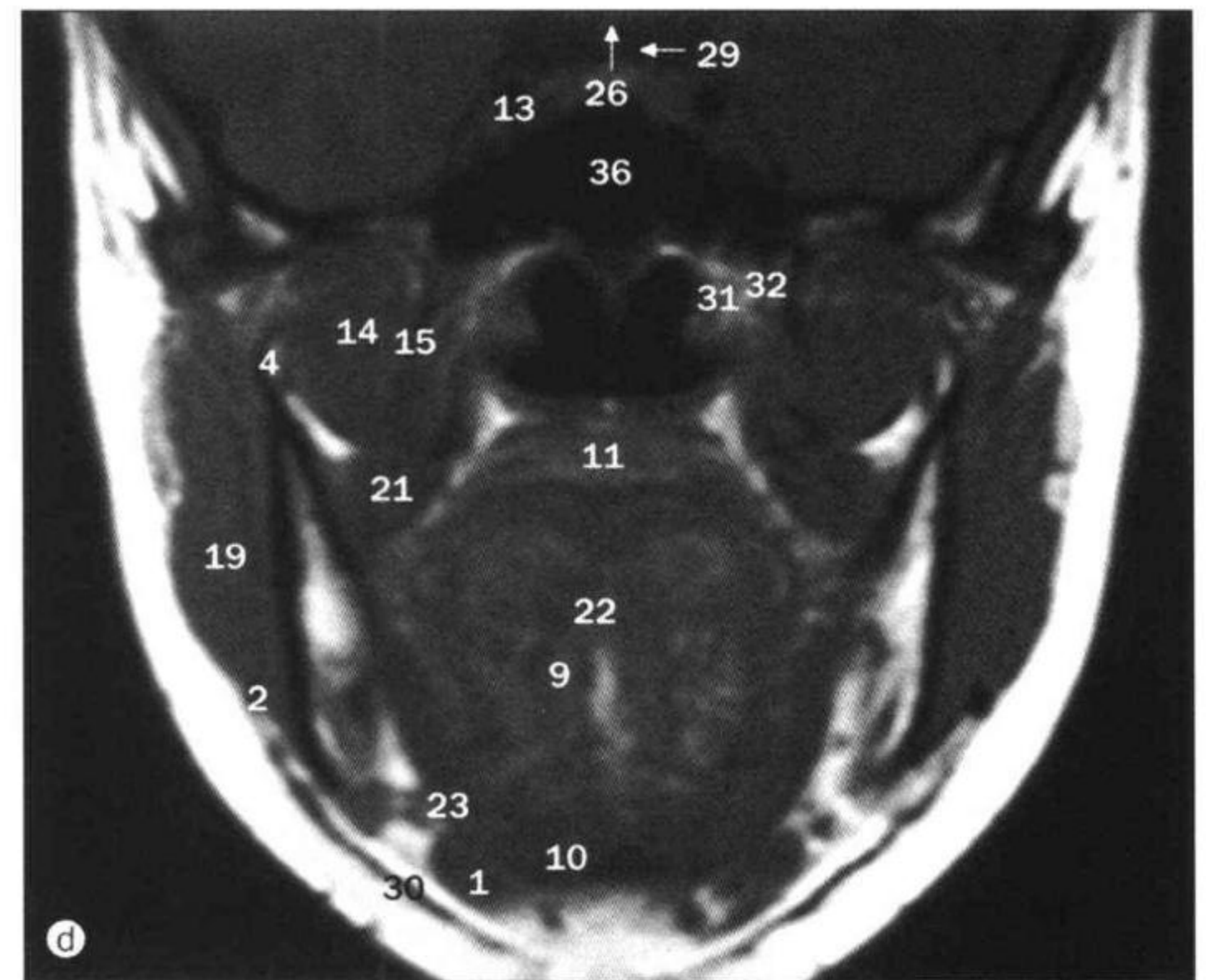
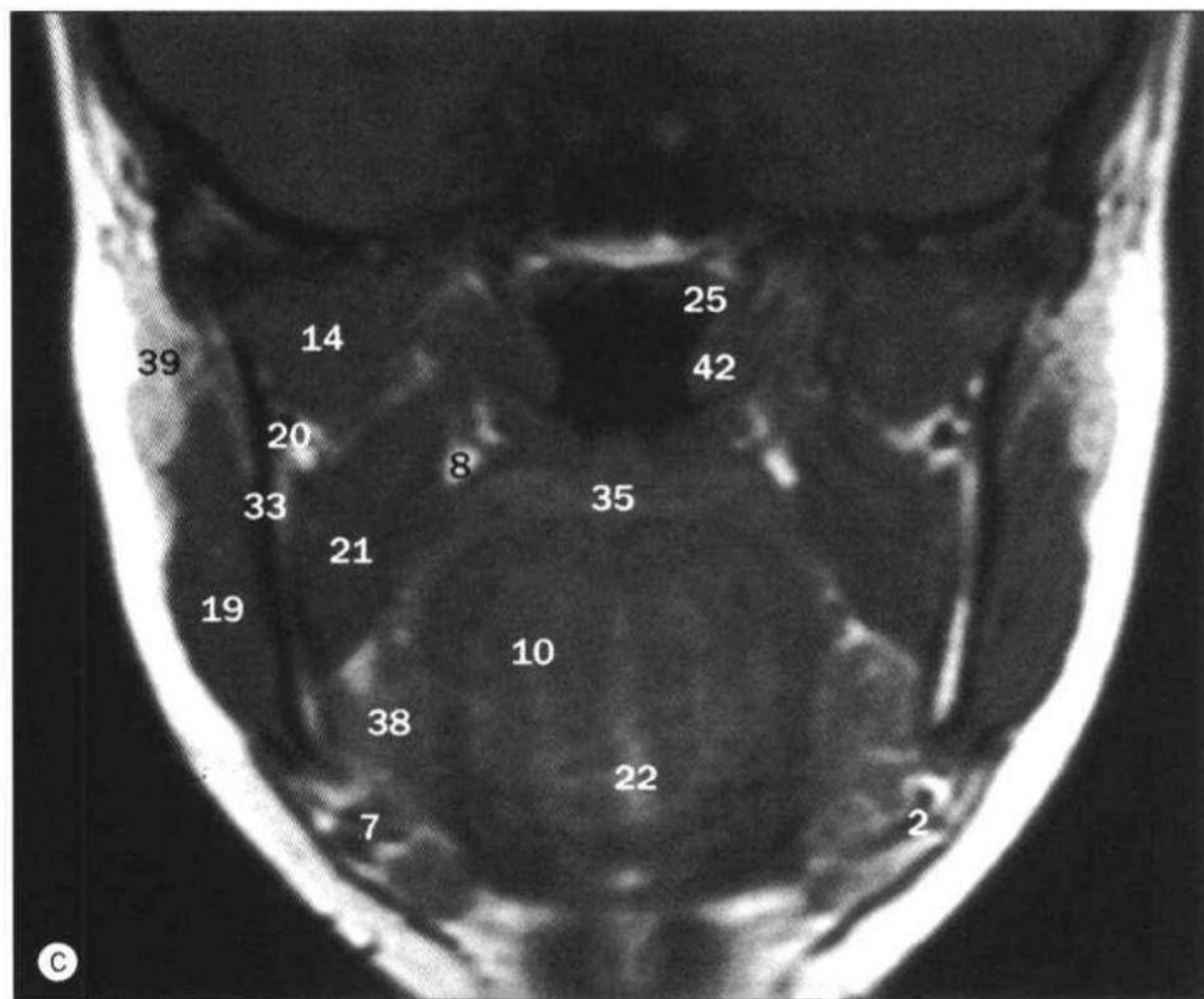
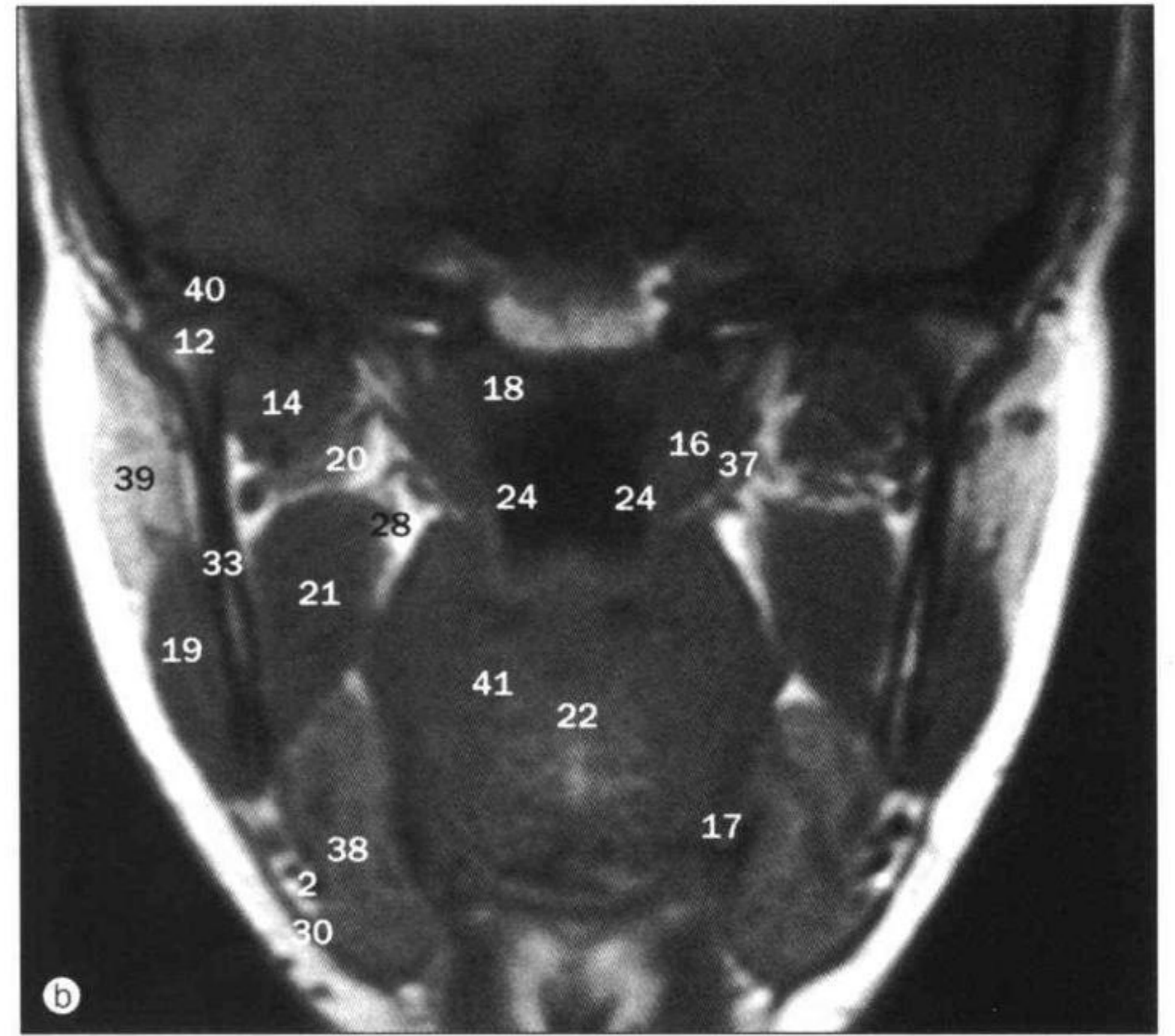
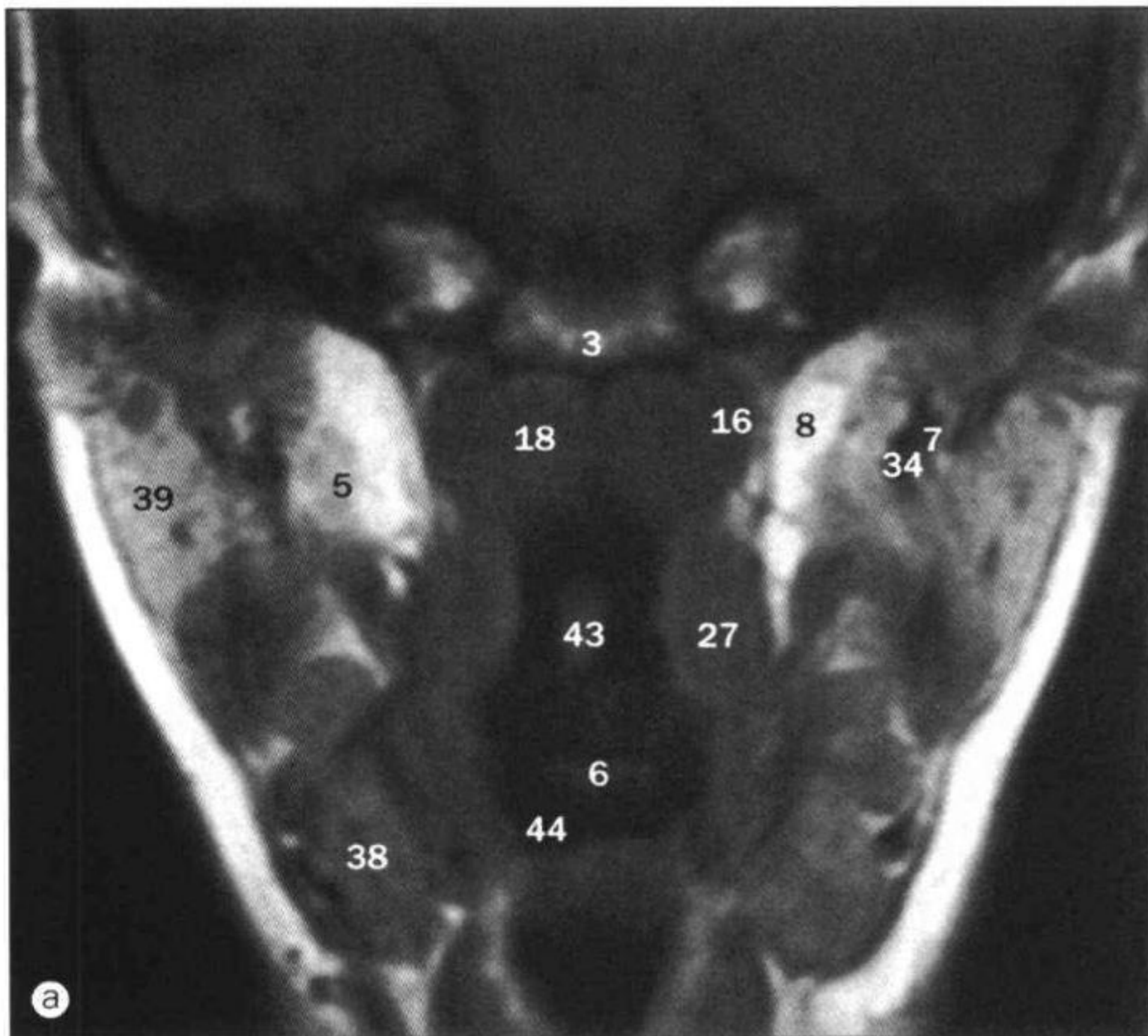


- | | | |
|---|--|-------------------------------------|
| 44 延髓 medulla oblongata | 58 咽缩肌 pharyngeal constrictor muscle | 72 脊髓 spinal cord |
| 45 下颌舌骨肌 mylohyoid muscle | 59 咽颅底筋膜 pharyngobasilar fascia | 73 头夹肌 splenius capitis muscle |
| 46 鼻中隔软骨 nasal septal cartilage | 60 耳廓 pinna of ear | 74 胸锁乳突肌 sternocleidomastoid muscle |
| 47 鼻咽 nasopharynx | 61 寰椎后弓 posterior arch of atlas | 75 茎突咽肌 stylopharyngeus muscle |
| 48 枕髁 occipital condyle | 62 二腹肌后腹 posterior belly of digastric muscle | 76 皮下脂肪 subcutaneous fat |
| 49 齿突 odontoid process (dens) | 63 咽后壁 posterior pharyngeal wall | 77 下颌下腺 submandibular gland |
| 50 口咽 oropharynx | 64 翼上颌裂 pterygomaxillary fissure | 78 颞肌 temporalis muscle |
| 51 腭扁桃体 palatine tonsils | 65 下颌支 ramus of mandible | 79 腭帆张肌 tensor veli palatini muscle |
| 52 腭咽肌 palatopharyngeus muscle | 66 头前直肌 rectus capitis anterior muscle | 80 斜方肌 trapezius muscle |
| 53 咽旁间隙 parapharyngeal space | 67 头直肌 rectus capitis muscle | 81 腭垂 uvula |
| 54 腮腺管 parotid duct | 68 下颌后静脉 retromandibular vein | 82 椎动脉 vertebral artery |
| 55 腮腺 parotid gland | 69 上磨牙根 root of upper molar tooth | 83 犁骨 vomer |
| 56 颞骨岩部 petrous portion of temporal bone | 70 头半棘肌 semispinalis capitis muscle | 84 颧弓 zygomatic arch |
| 57 咽鼓管咽口 (咽鼓管圆枕) pharyngeal opening of auditory tube (torus tubarius) | 71 软腭 soft palate | 85 颧肌 zygomaticus muscle |



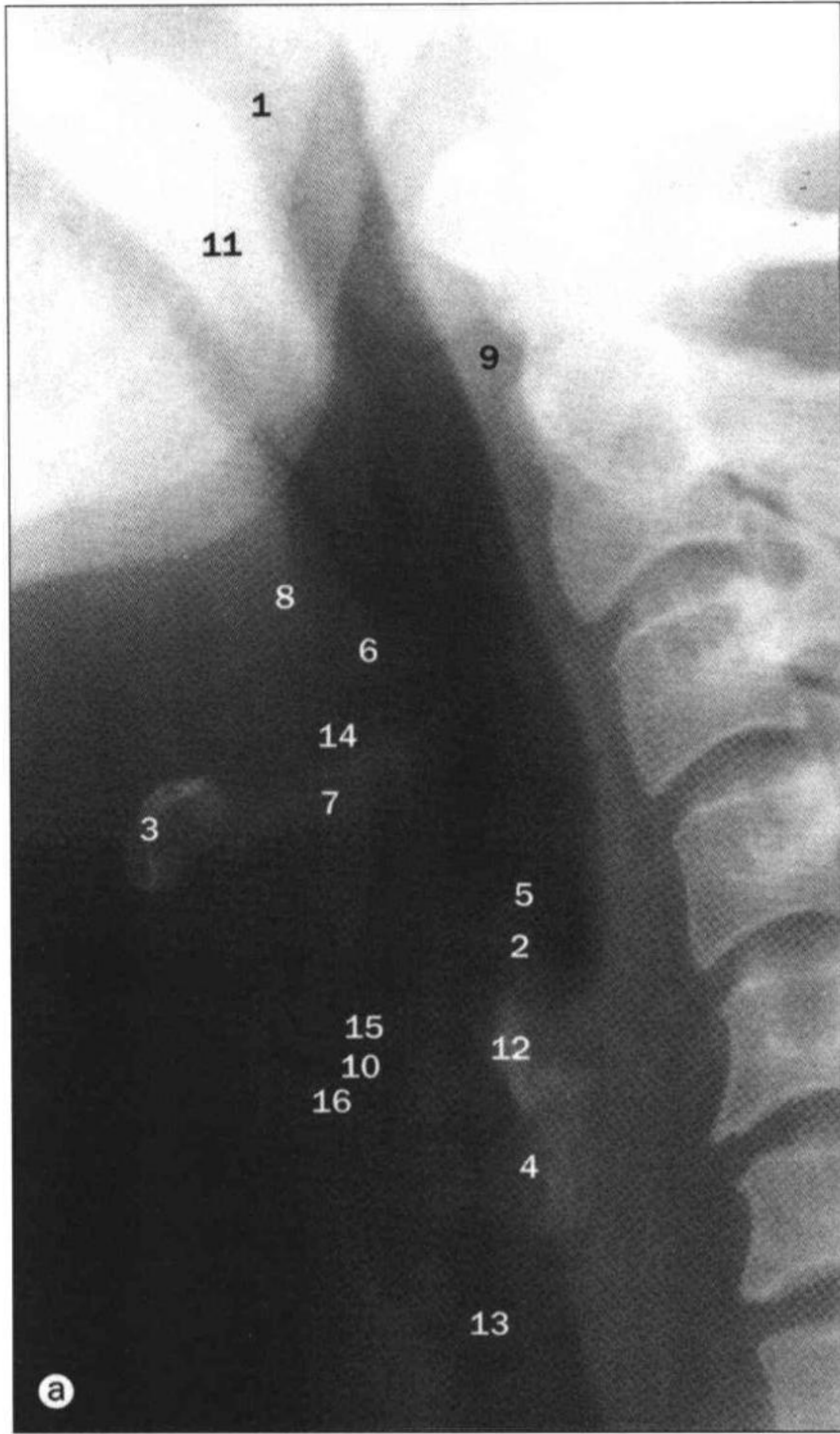
a~d. 鼻咽和口咽，矢状位 MRI。

- | | | |
|---|---------------------------------|--|
| 1 上颌骨牙槽突
alveolar process of maxilla | 19 下鼻甲 inferior nasal concha | 40 眶内脂肪 orbital fat |
| 2 寰椎前弓 anterior arch of atlas (first cervical vertebra) | 20 下直肌 inferior rectus muscle | 41 口咽 oropharynx |
| 3 颈内动脉海绵窦部 cavernous portion of internal carotid artery | 21 颈内动脉 internal carotid artery | 42 筛骨垂直板 perpendicular plate of ethmoid bone |
| 4 海绵窦 cavernous sinus | 22 喉 larynx | 43 垂体 pituitary gland |
| 5 小脑半球 cerebellar hemisphere | 23 翼外肌 lateral pterygoid muscle | 44 脑桥 pons |
| 6 斜坡 clivus | 24 头长肌 longus capitis muscle | 45 咽后壁 posterior wall of pharynx |
| 7 鼻小柱 columella | 25 下颌骨 mandible | 46 翼上颌裂 pterygomaxillary fissure |
| 8 会厌 epiglottis | 26 上颌窦 maxillary sinus (antrum) | 47 翼腭窝 pterygopalatine fossa |
| 9 筛小房 ethmoidal air cells | 27 内直肌 medial rectus muscle | 48 软腭 soft palate |
| 10 枕骨大孔 foramen magnum | 28 延髓 medulla oblongata | 49 蝶窦 sphenoidal sinus |
| 11 额叶 frontal lobe | 29 中鼻道 middle meatus | 50 脊髓 spinal cord |
| 12 额窦 frontal sinus | 30 中鼻甲 middle nasal concha | 51 颞叶 temporal lobe |
| 13 颞舌肌 genioglossus muscle | 31 鼻翼 nasal ala | 52 舌 tongue |
| 14 颞舌骨肌 geniohyoid muscle | 32 鼻骨 nasal bone | 53 咽鼓管圆枕 torus tubarius |
| 15 眼球 globe | 33 鼻中隔软骨 nasal septal cartilage | 54 上磨牙 upper molar tooth |
| 16 硬腭 hard palate | 34 鼻中隔 nasal septum | 55 腭垂 uvula |
| 17 喉咽 hypopharynx | 35 鼻咽 nasopharynx | 56 会厌谷 vallecula |
| 18 切牙 incisor tooth | 36 齿突 odontoid process (dens) | 57 犁骨 vomer |
| | 37 视交叉 optic chiasma | |
| | 38 视神经孔 optic foramen | |
| | 39 视神经 optic nerve | |



a~d. 鼻咽和口咽，冠状位 MRI。

- | | | |
|---|---|--|
| 1 二腹肌前腹
anterior belly of digastric muscle | 16 腭帆提肌和腭帆张肌
levator veli palatini muscle and
tensor veli palatini muscle | 32 蝶骨翼突
pterygoid process of sphenoid |
| 2 面前静脉 anterior facial vein | 17 舌动脉 lingual artery | 33 下颌支 ramus of mandible |
| 3 斜坡 clivus | 18 头长肌 longus capitis muscle | 34 下颌后静脉 retromandibular vein |
| 4 下颌骨冠突
coronoid process of mandible | 19 咬肌 masseter muscle | 35 软腭 soft palate |
| 5 腮腺深部 deep lobe of parotid gland | 20 上颌动脉 maxillary artery | 36 蝶窦 sphenoidal sinus |
| 6 会厌 epiglottis | 21 翼内肌 medial pterygoid muscle | 37 茎突咽肌 stylopharyngeus muscle |
| 7 面动脉 facial artery | 22 舌中缝 median raphe of tongue | 38 下颌下腺 submandibular gland |
| 8 咽旁间隙脂肪
fat in parapharyngeal space | 23 下颌舌骨肌 mylohyoid muscle | 39 腮腺浅部
superficial lobe of parotid gland |
| 9 颞舌肌 genioglossus muscle | 24 鼻咽 nasopharynx | 40 颞下颌关节
temporomandibular joint |
| 10 颞舌骨肌 geniohyoid muscle | 25 咽鼓管口 opening of auditory
(Eustachian) tube | 41 舌 tongue |
| 11 硬腭 hard palate | 26 视交叉 optic chiasma | 42 咽鼓管圆枕 torus tubarius |
| 12 下颌头 head of mandible | 27 腭缩肌 palatal constrictor muscles | 43 腭垂 uvula |
| 13 颈内动脉 internal carotid artery | 28 腭动脉 palatine artery | 44 会厌谷 vallecula |
| 14 翼外肌 lateral pterygoid muscle | 29 垂体柄 pituitary stalk | |
| 15 翼突外侧板
lateral pterygoid plate | 30 颈阔肌 platysma muscle | |
| | 31 翼管 pterygoid (vidian) canal | |



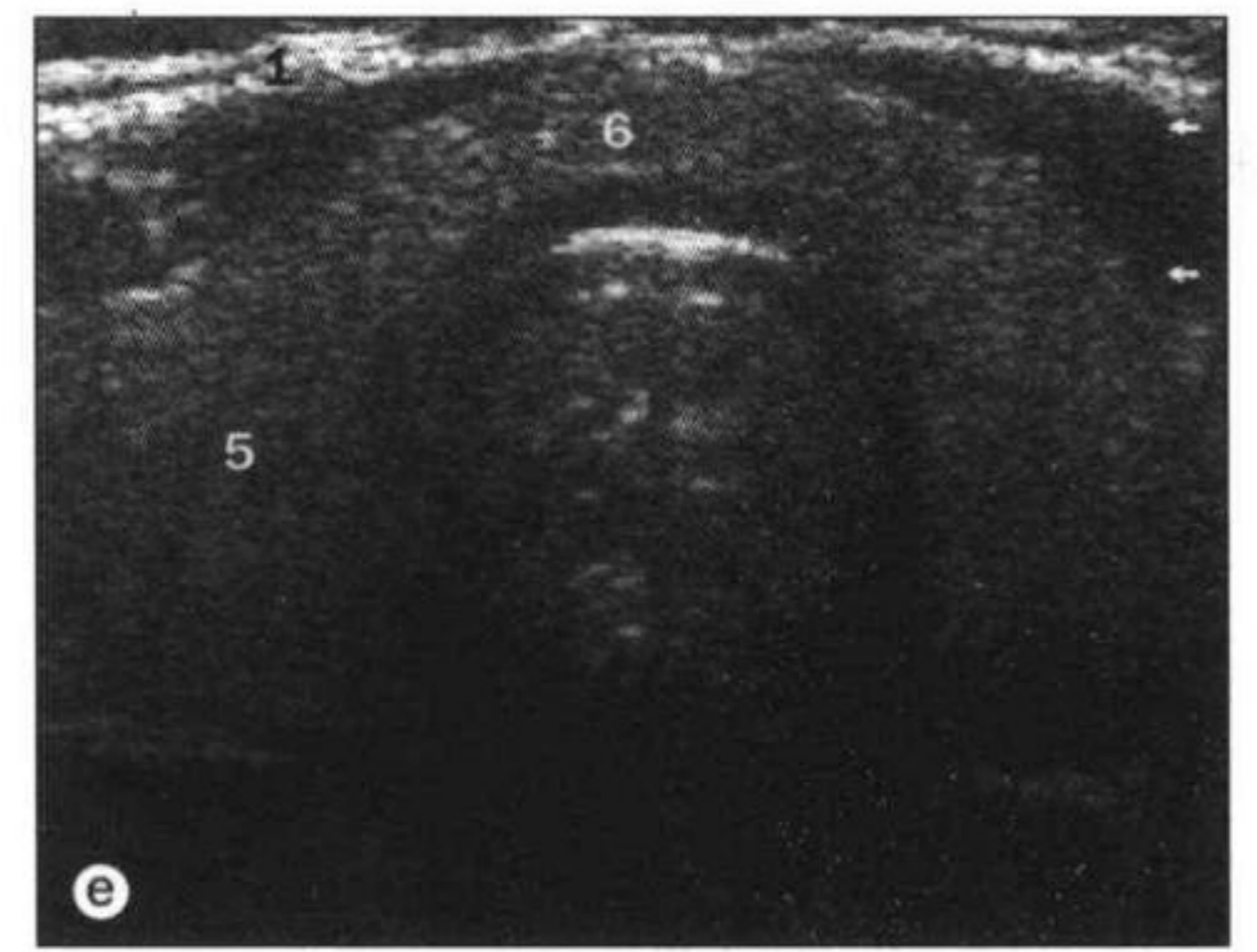
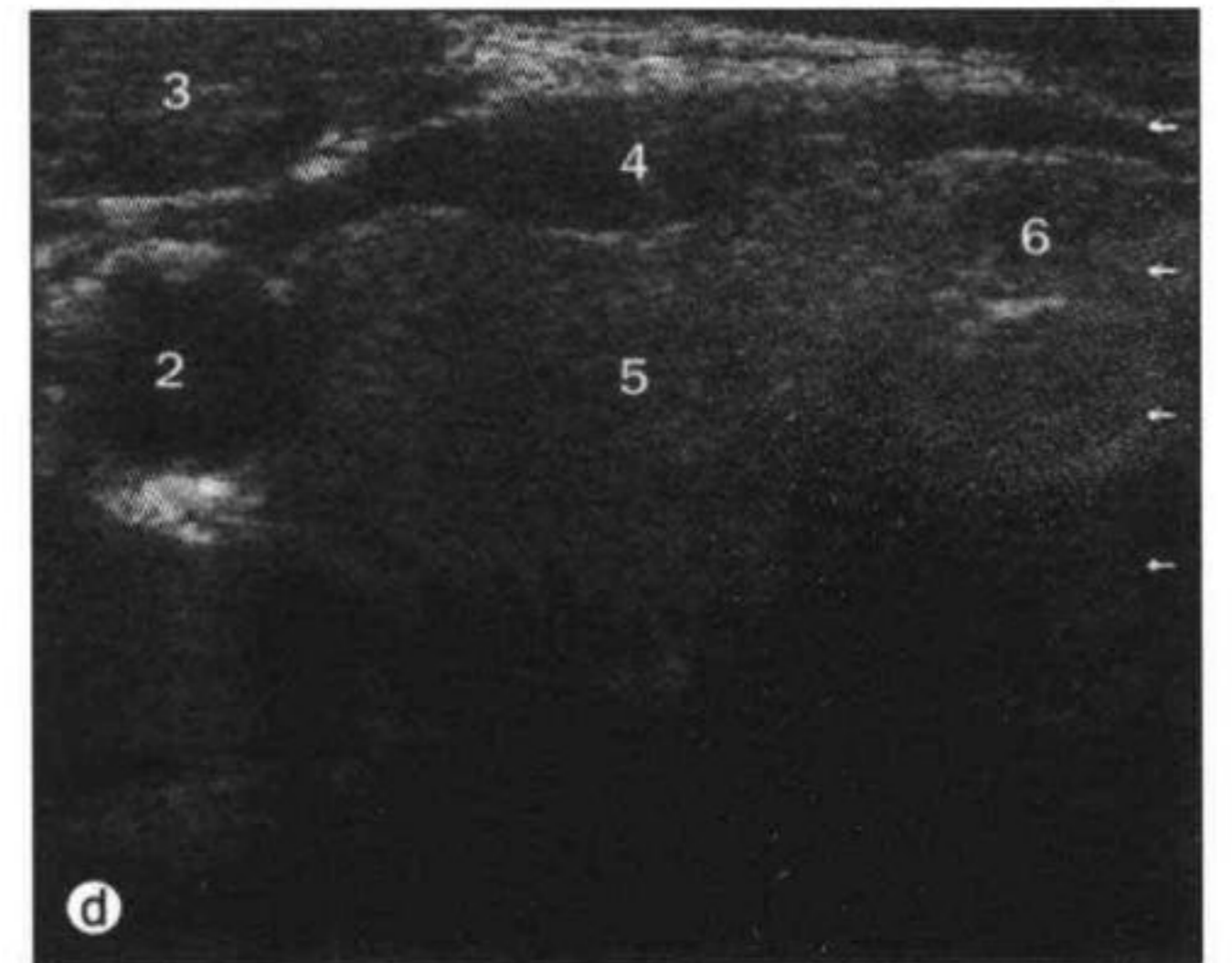
a. 颈部软组织, 侧位 X 线。

- | | |
|-----------------------------------|--|
| 1 鼻咽的空气
air in nasopharynx | 8 舌后背面
posterior aspect of tongue |
| 2 杓状软骨
arytenoid cartilage | 9 咽后软组织
retropharyngeal soft tissues |
| 3 舌骨体
body of hyoid bone | 10 喉室 sinus of larynx |
| 4 环状软骨
cricoid cartilage | 11 软腭 soft palate |
| 5 楔形软骨
cuneiform cartilage | 12 甲状软骨上角 superior horn of thyroid cartilage |
| 6 会厌 epiglottis | 13 气管 trachea |
| 7 舌骨大角 greater horn of hyoid bone | 14 会厌谷 vallecula |
| | 15 前庭襞 vestibular fold |
| | 16 声襞 vocal fold |



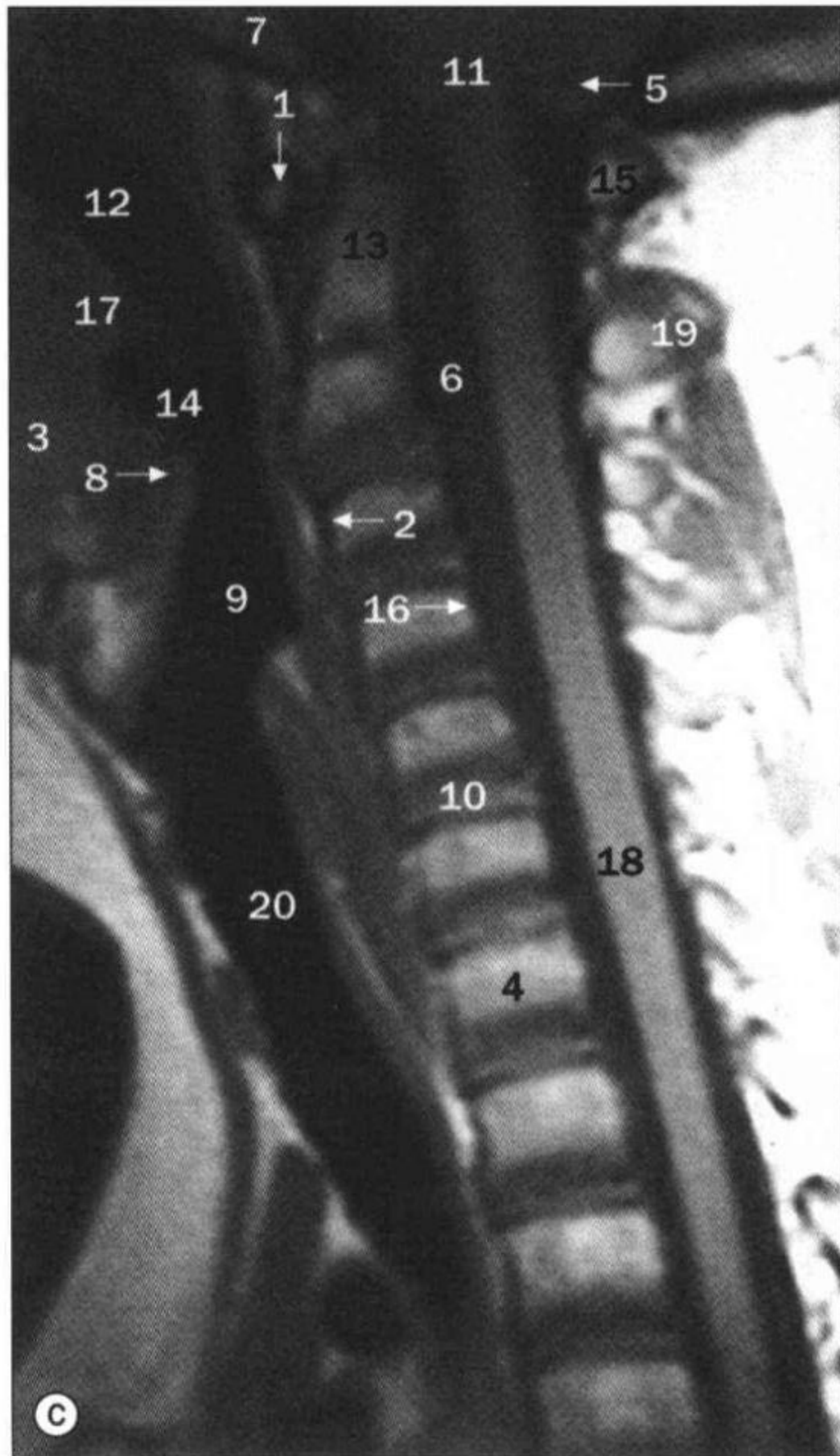
b. 吻, 矢状位 MRI。

- | |
|--|
| 1 提唇肌三角附着部
deltoid insertion of levator muscle |
| 2 下颌骨 mandible |
| 3 鼻 nose |
| 4 口轮匝肌边缘部 pars marginalis of orbicularis oris muscle |
| 5 口轮匝肌周围部 pars peripheralis of orbicularis oris muscle |
| 6 舌 tongue |



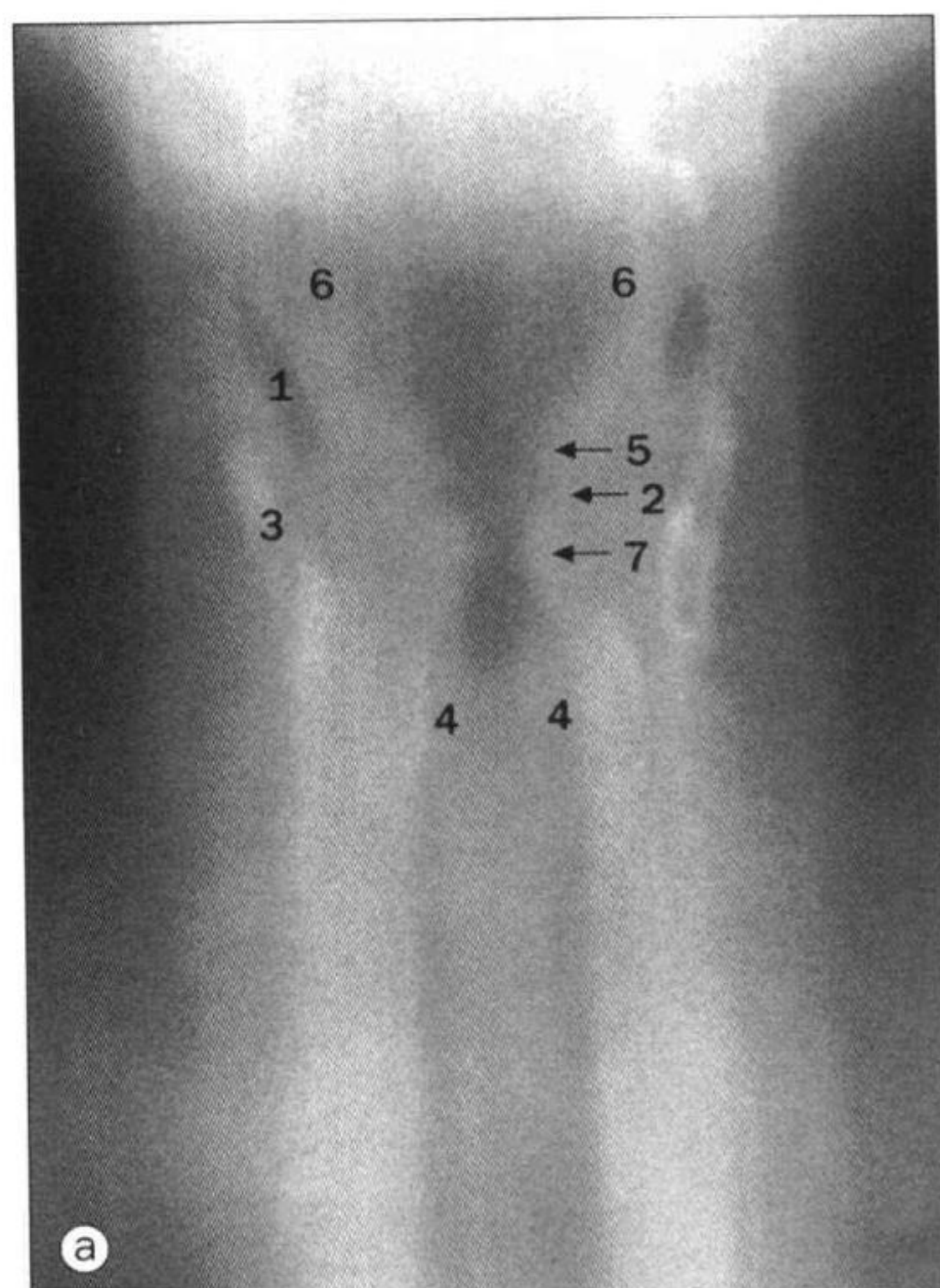
d, e. 甲状腺, 轴位超声。

- | |
|------------------------------------|
| 1 颈深筋膜 deep cervical fascia |
| 2 颈内静脉 internal jugular vein |
| 3 胸锁乳突肌 sternocleidomastoid muscle |
| 4 颈部带状肌 strap muscles of the neck |
| 5 甲状腺 thyroid gland |
| 6 甲状腺峡部 thyroid isthmus |



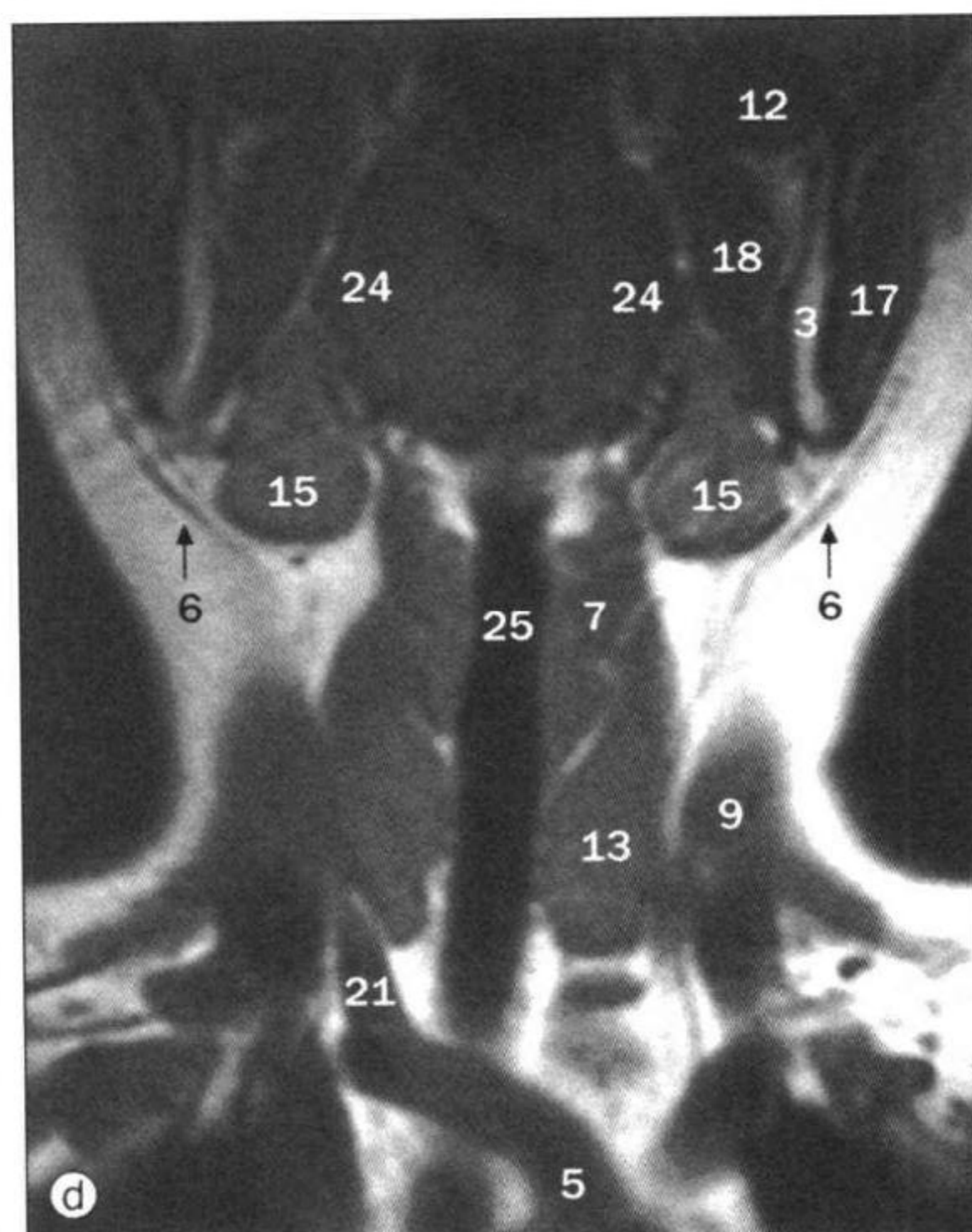
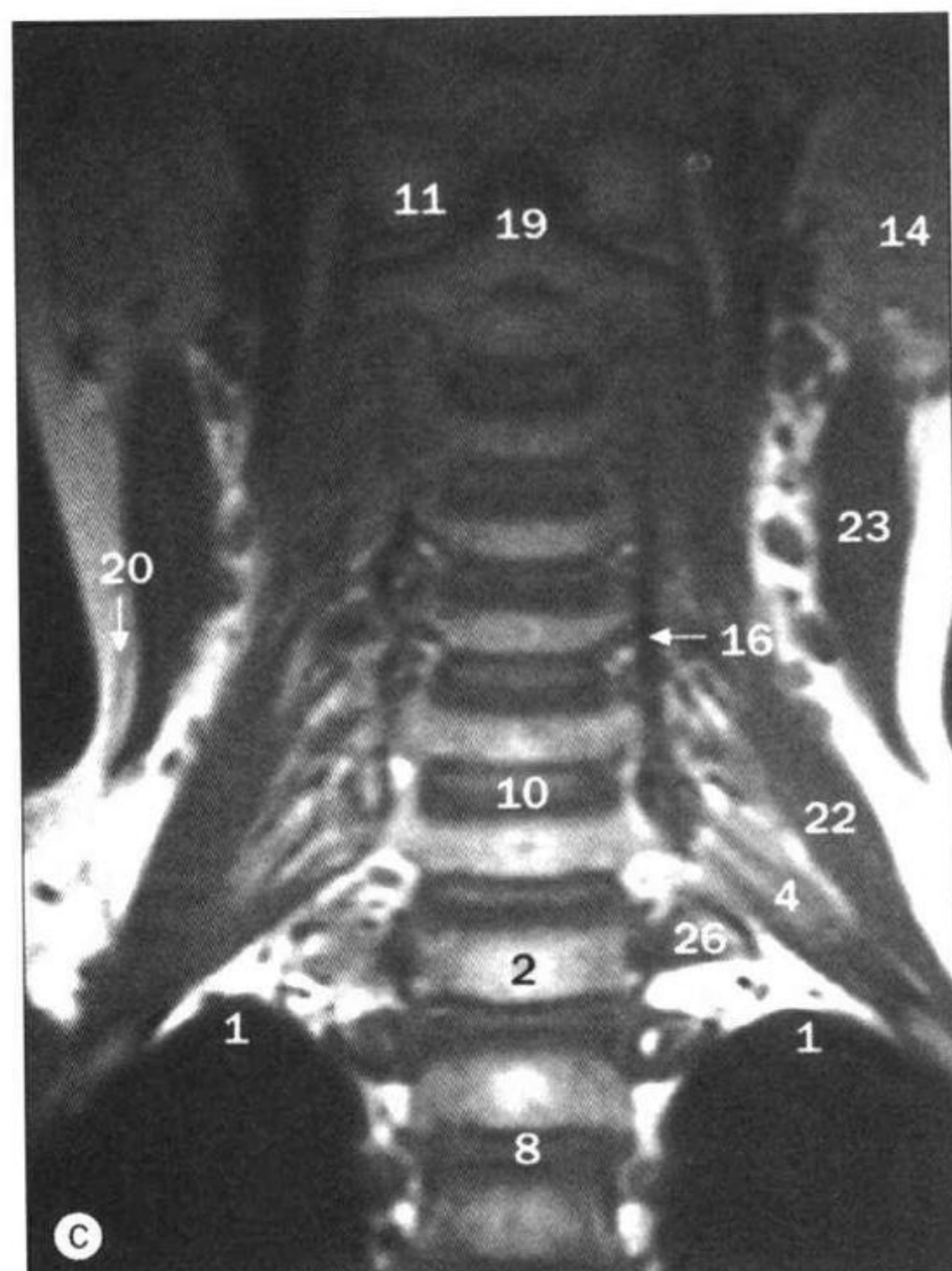
c. 颈部软组织, 矢状位 MRI。

- | |
|--|
| 1 寰椎前弓 anterior arch of atlas (first cervical vertebra) |
| 2 前纵韧带 anterior longitudinal ligament |
| 3 舌根 base of tongue |
| 4 第 7 颈椎椎体 body of seventh cervical vertebra |
| 5 小脑扁桃体 cerebellar tonsil |
| 6 脑脊液 cerebrospinal fluid |
| 7 斜坡 clivus |
| 8 会厌 epiglottis |
| 9 喉咽 hypopharynx |
| 10 椎间盘 (第 5、6 颈椎椎体之间) intervertebral disc (between fifth and sixth cervical vertebrae) |
| 11 延髓 medulla oblongata |
| 12 鼻咽 nasopharynx |
| 13 齿突 odontoid process (dens) |
| 14 口咽 oropharynx |
| 15 寰椎后弓 posterior arch of atlas (first cervical vertebra) |
| 16 后纵韧带 posterior longitudinal ligament |
| 17 软腭 soft palate |
| 18 脊髓 spinal cord |
| 19 枢椎棘突 spinous process of axis (second cervical vertebra) |
| 20 气管 trachea |



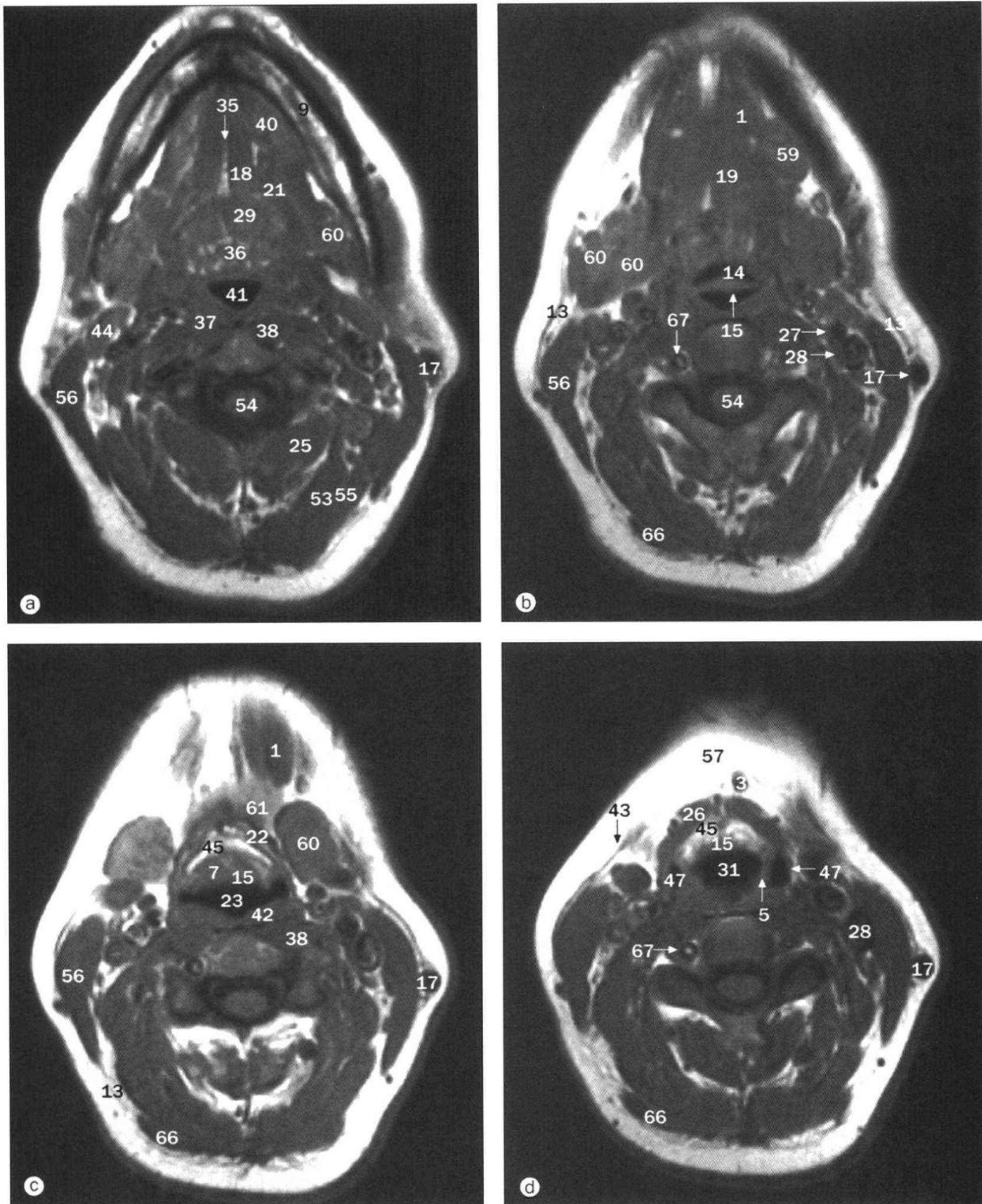
a, b. 喉, X线断层摄影。
a. 静息时; b. 发音时。
注意观察发音时声襞如何靠近。

- 1 梨状隐窝 piriform fossa
- 2 喉室 sinus of larynx
- 3 甲状软骨 thyroid cartilage
- 4 气管 trachea
- 5 前庭襞 vestibular fold
- 6 喉前庭 vestibule
- 7 声襞 vocal fold



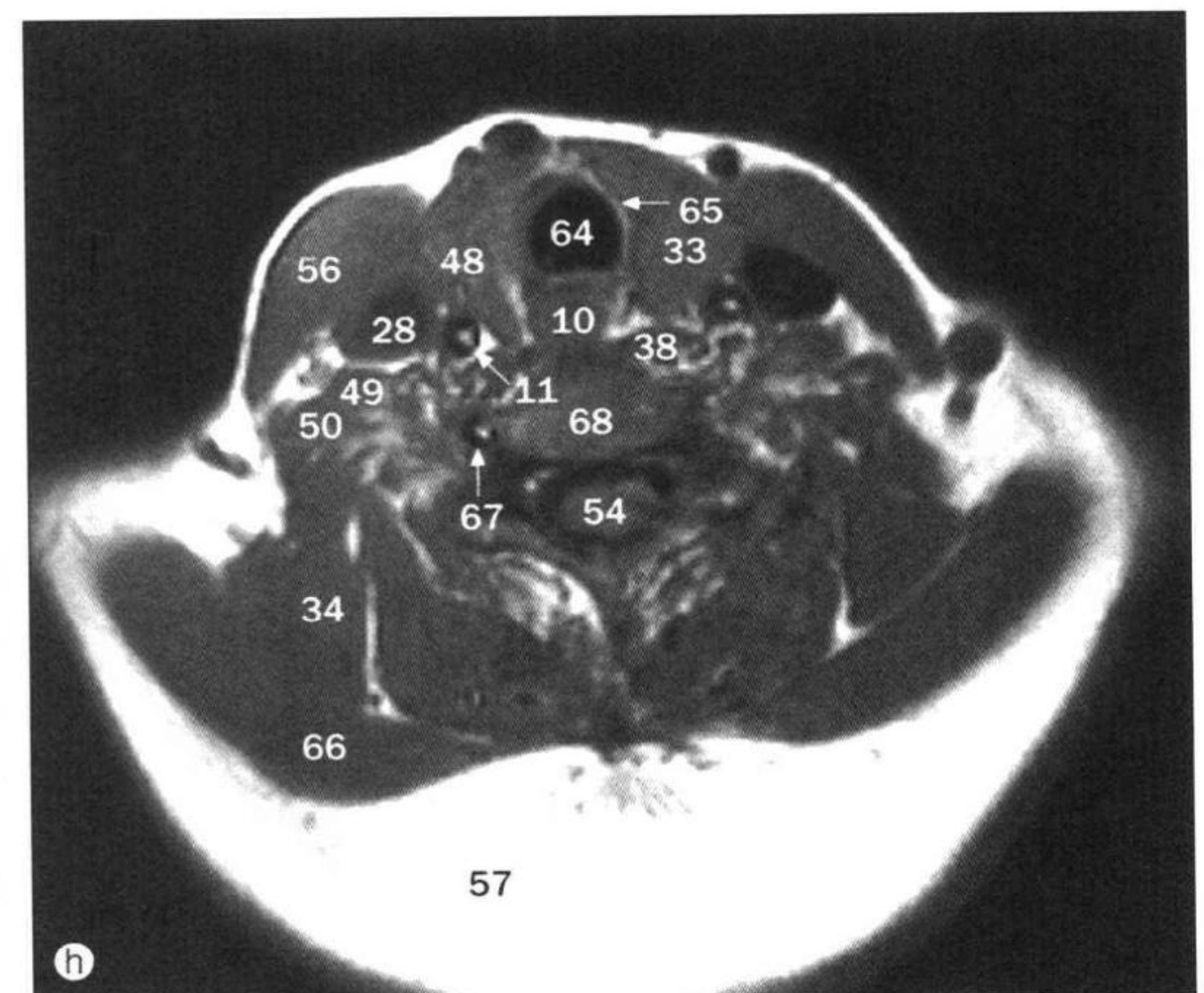
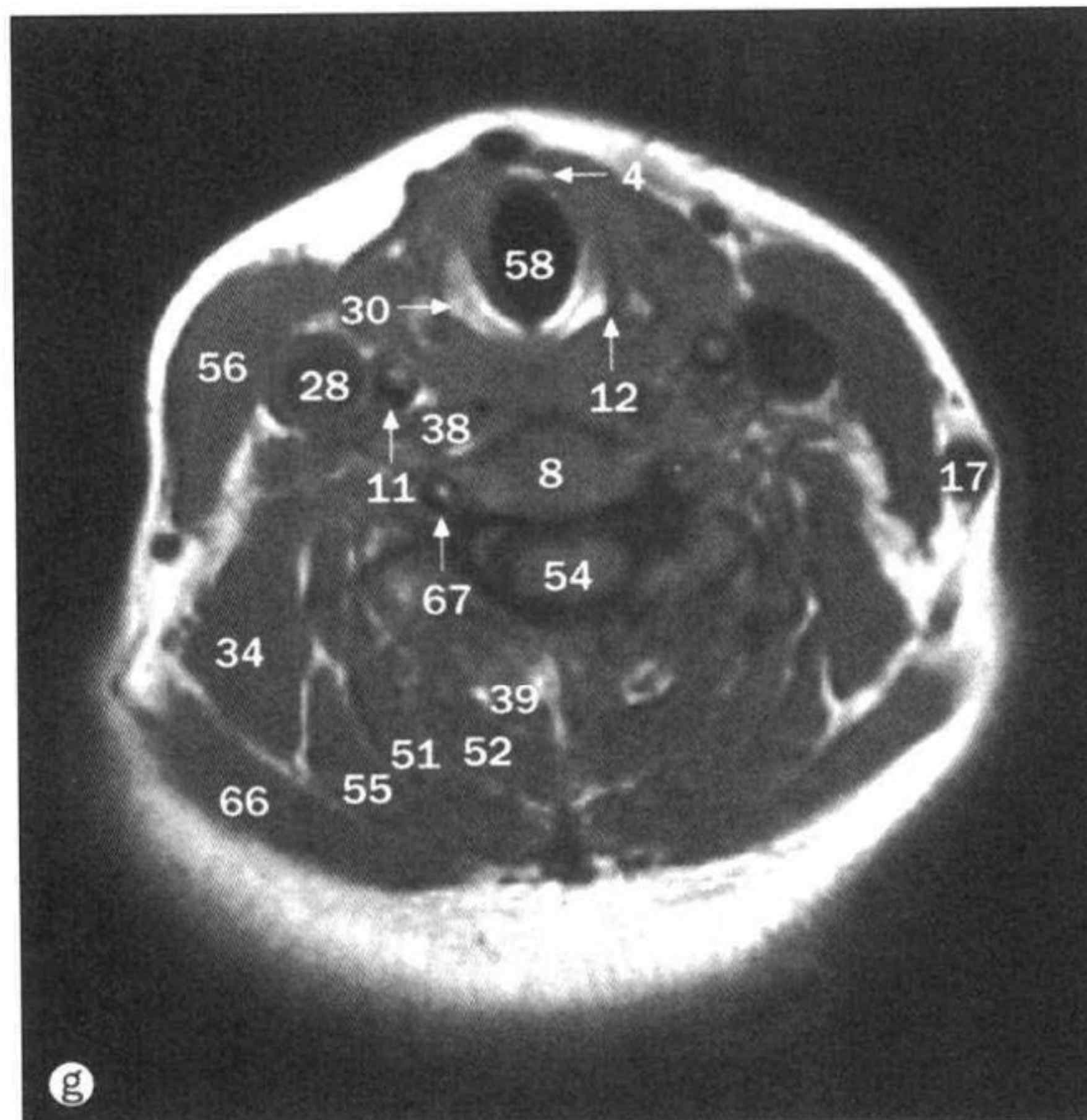
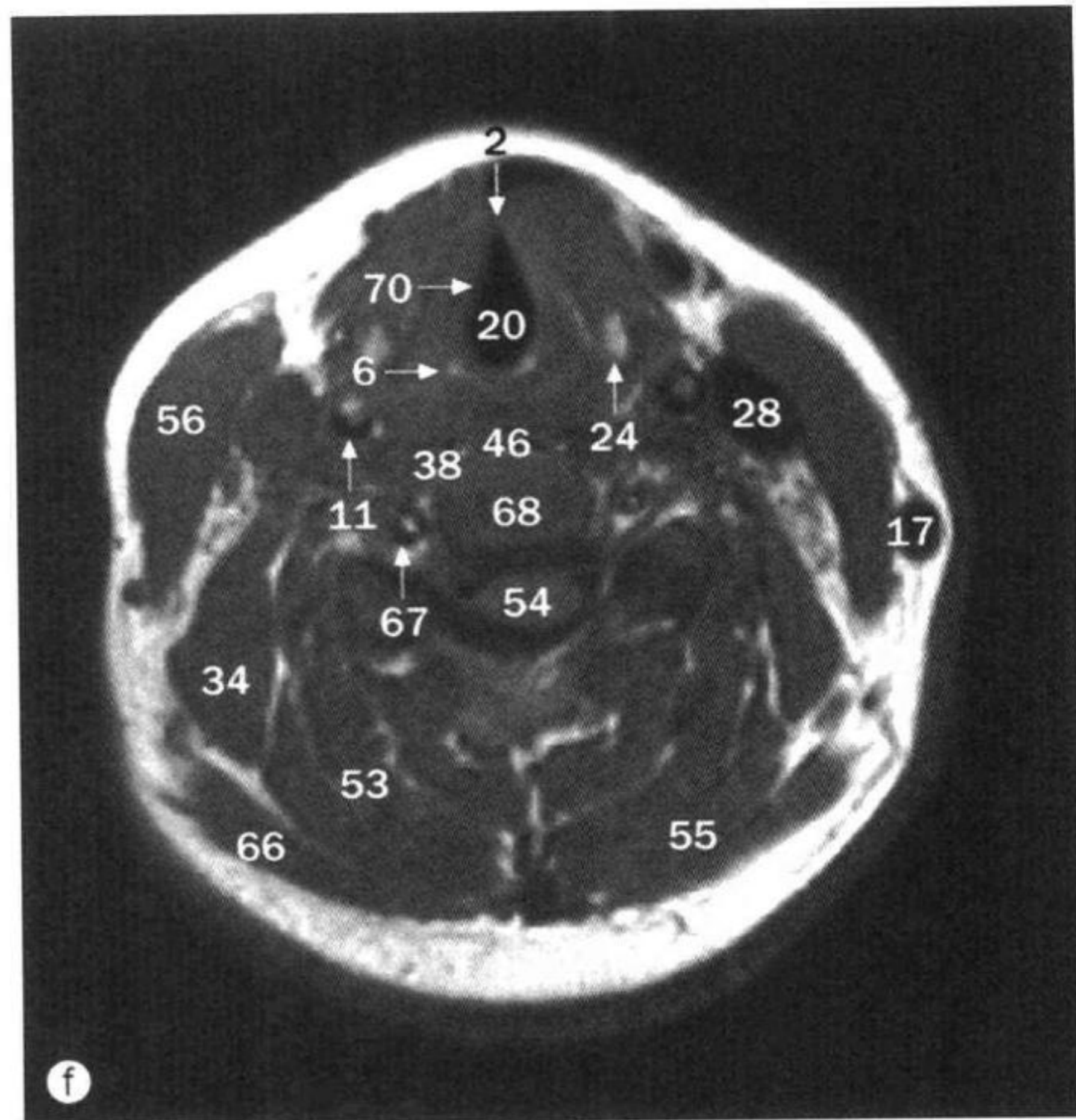
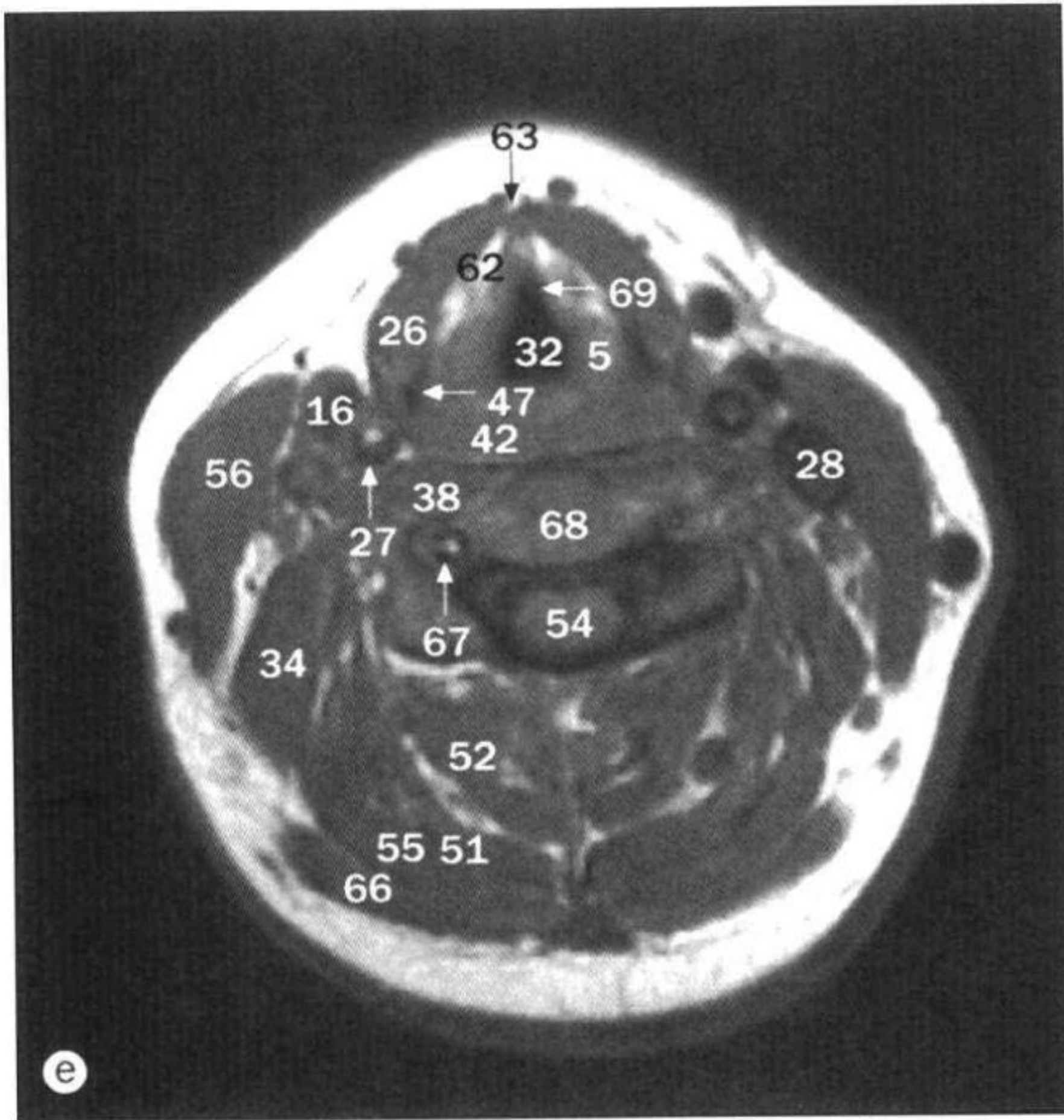
c, d. MRI。

- 1 肺尖 apex of lung
- 2 第1胸椎椎体 body of first thoracic vertebra
- 3 下颌体 body of mandible
- 4 臂丛 brachial plexus
- 5 头臂干 brachiocephalic trunk
- 6 颈深筋膜 deep cervical fascia
- 7 咽下缩肌 inferior constrictor muscle
- 8 第2胸椎下端骨板 inferior end plate of second thoracic vertebra
- 9 颈内静脉 internal jugular vein
- 10 椎间盘 (第6、7颈椎椎体之间) intervertebral disc (between sixth and seventh cervical vertebrae)
- 11 寰椎侧块 lateral mass of atlas (first cervical vertebra)
- 12 翼外肌 lateral pterygoid muscle
- 13 甲状腺左叶 left lobe of thyroid gland
- 14 左腮腺 left parotid gland
- 15 左下颌下腺 left submandibular gland
- 16 左椎动脉 left vertebral artery
- 17 咬肌 masseter muscle
- 18 翼内肌 medial pterygoid muscle
- 19 齿突 odontoid process (dens)
- 20 颈阔肌 platysma muscle
- 21 右颈总动脉 right common carotid artery
- 22 中斜角肌 scalenus medius muscle
- 23 胸锁乳突肌 sternocleidomastoid muscle
- 24 舌 tongue
- 25 气管 trachea
- 26 第1胸椎横突 transverse process of first thoracic vertebra



a~h. 喉和喉咽，轴位 MRI。

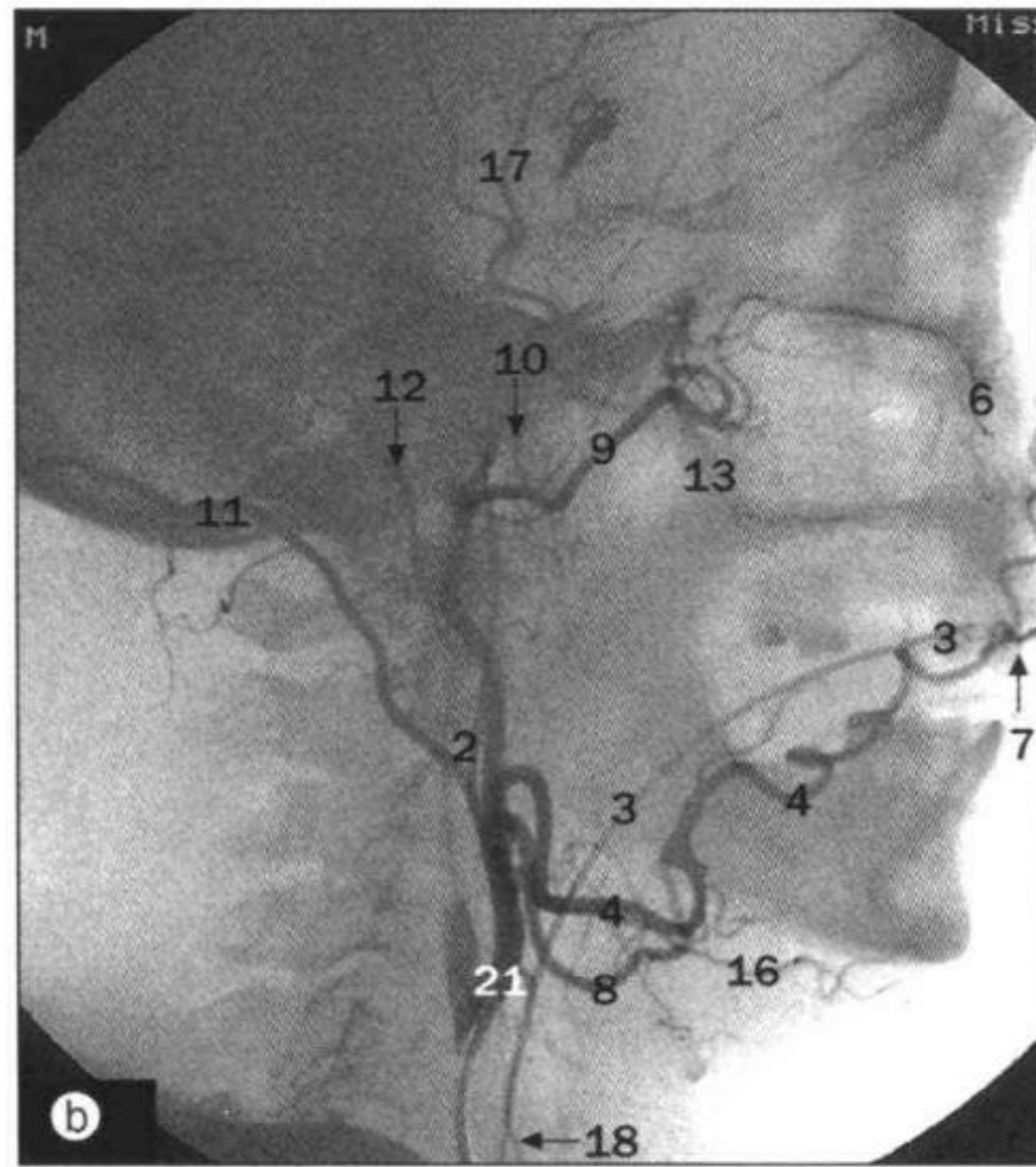
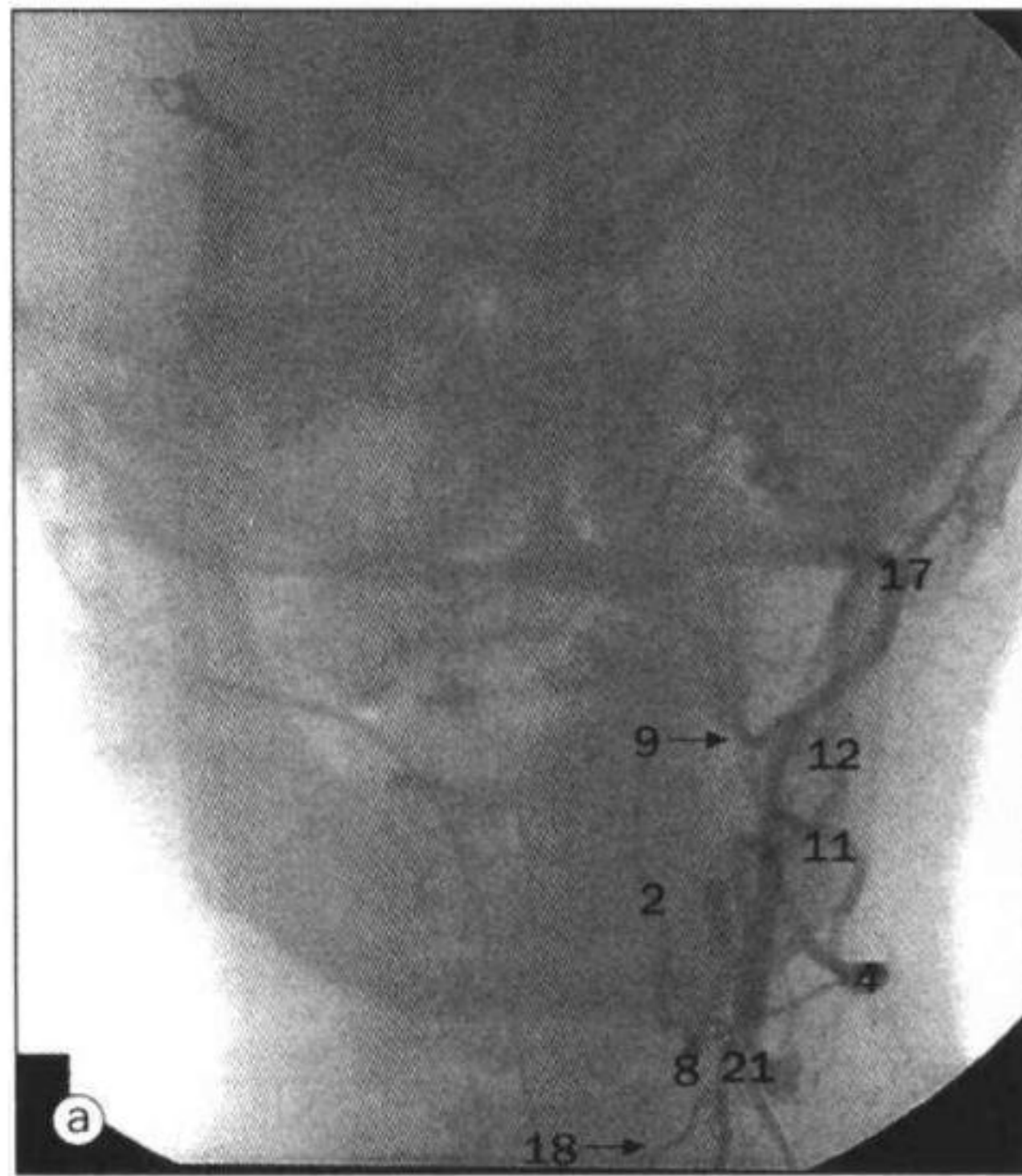
- | | |
|---|--|
| 1 二腹肌前腹 anterior belly of digastric muscle | 13 颈深筋膜 deep cervical fascia |
| 2 前连合 anterior commissure | 14 会厌谷 epiglottic valleculae |
| 3 颈前静脉 anterior jugular vein | 15 会厌 epiglottis |
| 4 环状软骨前缘 anterior margin of cricoid cartilage | 16 颈外动脉 external carotid artery |
| 5 杓状会厌襞 aryepiglottic fold | 17 颈外静脉 external jugular vein |
| 6 杓状软骨 arytenoid cartilage | 18 颞舌肌 genioglossus muscle |
| 7 舌根和会厌 base of tongue and epiglottis | 19 颞舌骨肌 geniohyoid muscle |
| 8 第5颈椎椎体 body of fifth cervical vertebra | 20 声门 glottic space |
| 9 下颌体 body of mandible | 21 舌骨舌肌 hyoglossus muscle |
| 10 食管颈段 cervical oesophagus | 22 舌骨 hyoid bone |
| 11 颈总动脉 common carotid artery | 23 喉咽 hypopharynx |
| 12 环甲关节 cricothyroid joint | 24 甲状软骨下角 inferior horn of thyroid cartilage |



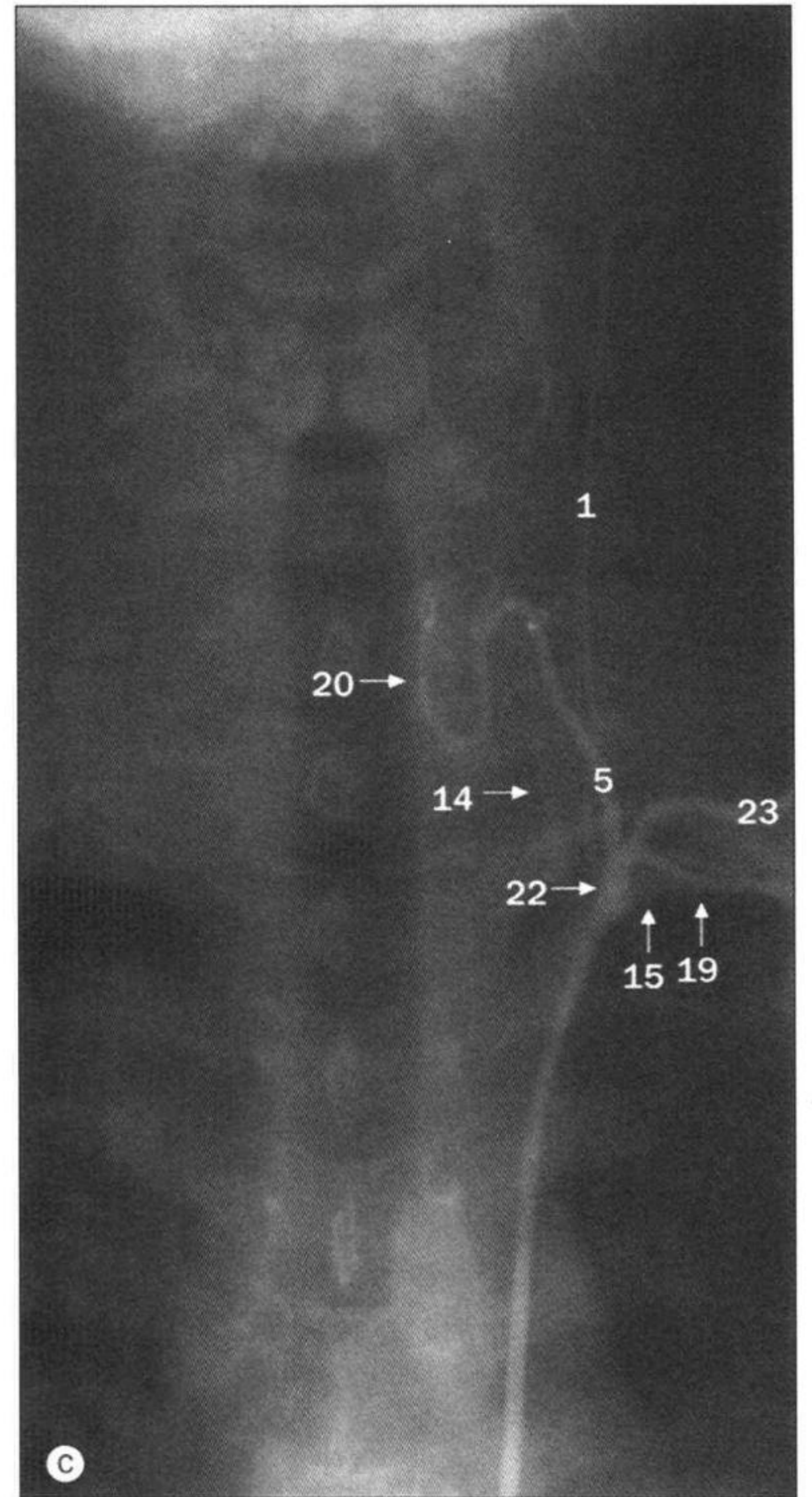
25 下斜肌 inferior oblique muscle
 26 舌骨下肌 infrahyoid muscle
 27 颈内动脉 internal carotid artery
 28 颈内静脉 internal jugular vein
 29 舌固有肌 intrinsic tongue muscle
 30 环状软骨板
 lamina of cricoid cartilage
 31 喉口 laryngeal inlet
 32 喉前庭 laryngeal vestibule
 33 甲状腺左叶 left lobe of thyroid
 34 肩胛提肌 levator scapulae muscle
 35 舌中隔 lingual septum
 36 舌扁桃体 lingual tonsils
 37 头长肌 longus capitis muscle
 38 颈长肌 longus colli muscle
 39 多裂肌 multifidus muscle
 40 下颌舌骨肌 mylohyoid muscle

41 口咽 oropharynx
 42 咽缩肌 pharyngeal constrictor
 43 颈阔肌 platysma muscle
 44 二腹肌后腹
 posterior belly of digastric muscle
 45 会厌前间隙 pre-epiglottic space
 46 椎前间隙 prevertebral space
 47 梨状隐窝 pyriform sinus
 48 甲状腺右叶 right lobe of thyroid
 49 前斜角肌 scalenus anterior muscle
 50 中、后斜角肌
 scalenus medius and posterior muscles
 51 头半棘肌 semispinalis capitis muscle
 52 颈半棘肌 semispinalis cervicis muscle
 53 半棘肌 semispinalis muscle
 54 脊髓 spinal cord
 55 头夹肌 splenius capitis muscle

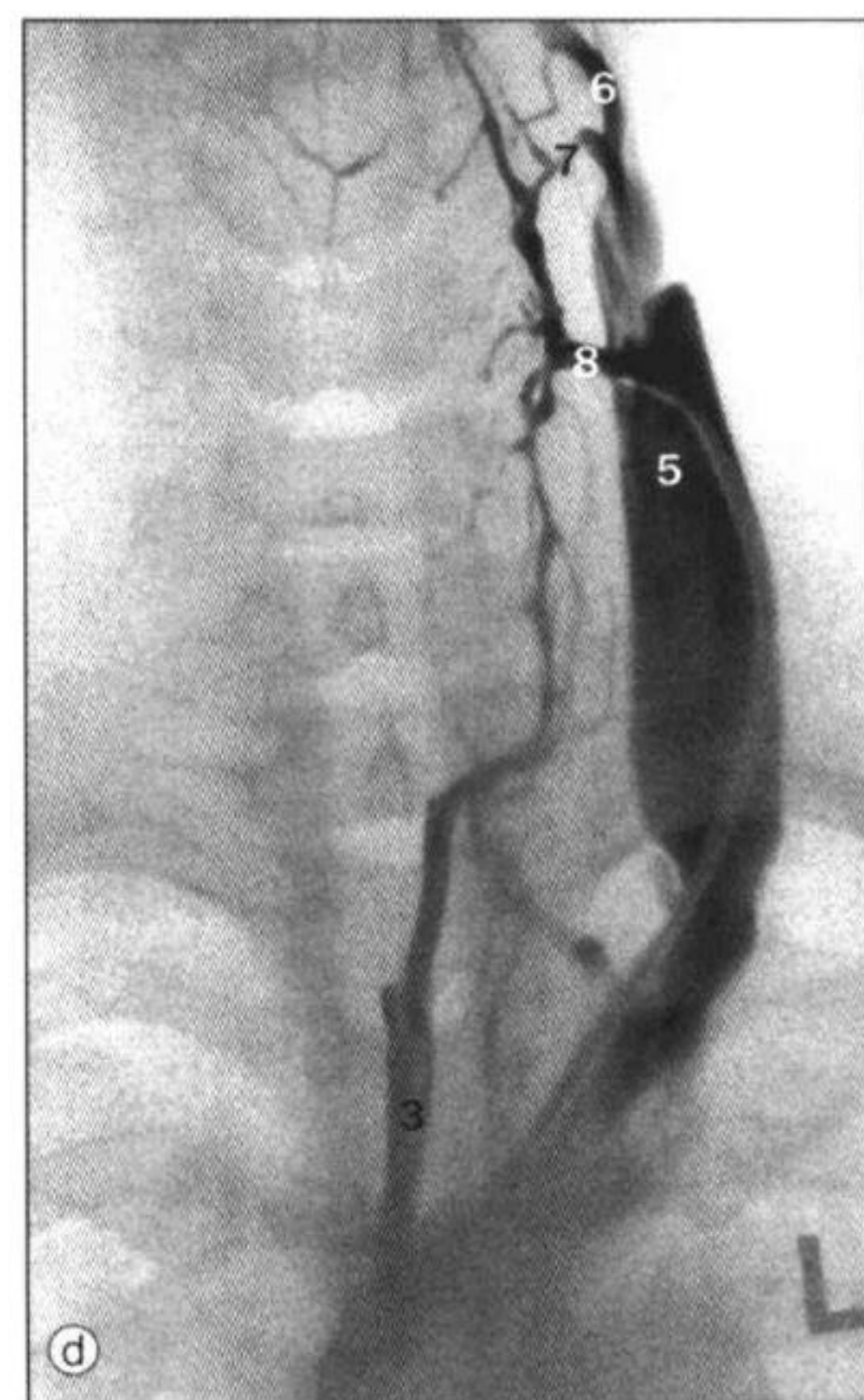
56 胸锁乳突肌
 sternocleidomastoid muscle
 57 皮下脂肪 subcutaneous fat
 58 声门下间隙 subglottic space
 59 舌下腺 sublingual gland
 60 下颌下腺 submandibular gland
 61 舌骨上肌 suprahyoid muscles
 62 甲状软骨 thyroid cartilage
 63 甲状腺切迹 thyroid notch
 64 气管 trachea
 65 气管环 tracheal ring
 66 斜方肌 trapezius muscle
 67 椎动脉 vertebral artery
 68 椎体 vertebral body
 69 前庭襞(假声带)
 vestibular fold (false cord)
 70 声带 vocal cord



a. 颈外动脉, 数字减影血管造影, 前后位; b. 颈外动脉, 数字减影血管造影, 侧位; c. 甲状腺动脉造影。

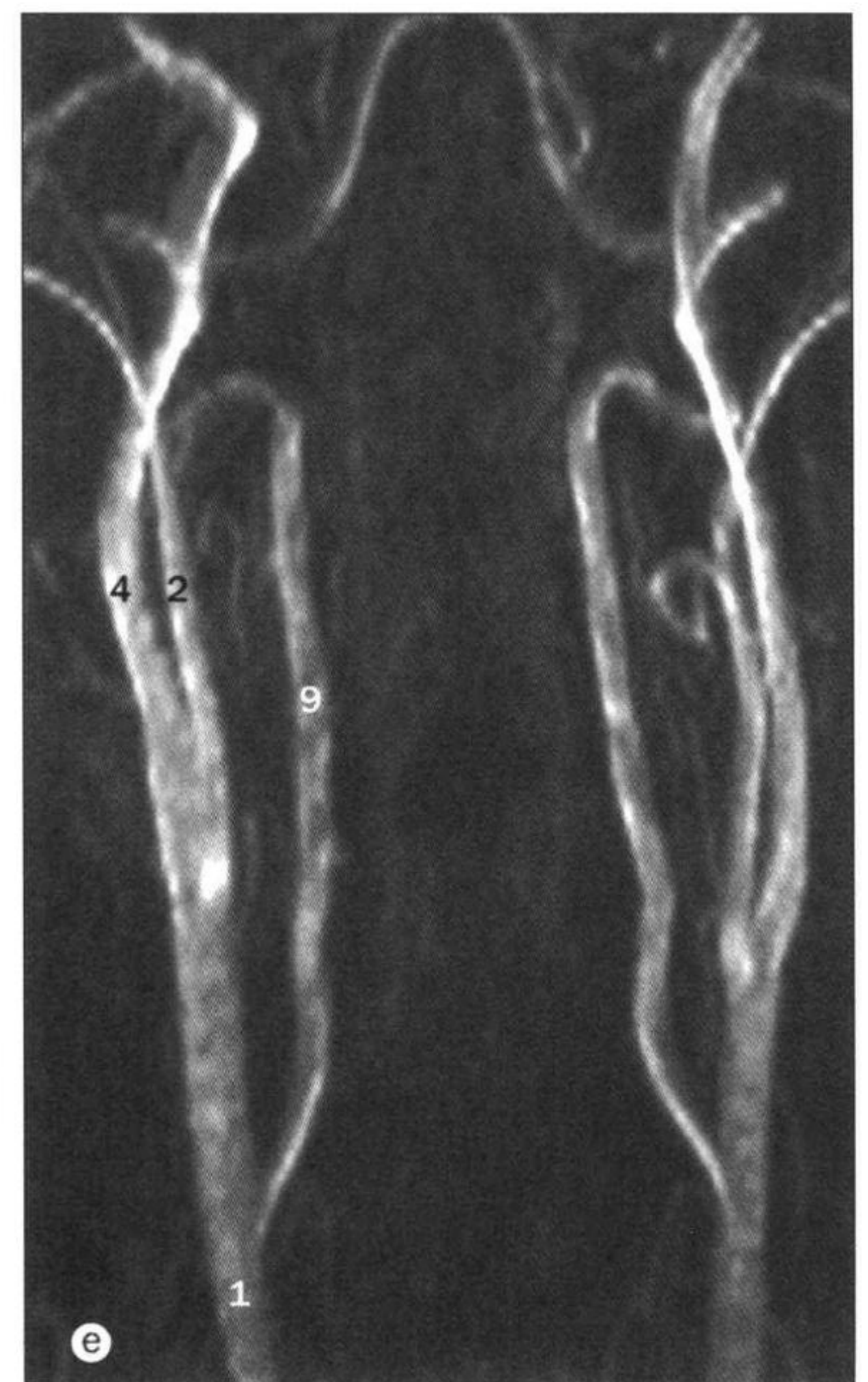


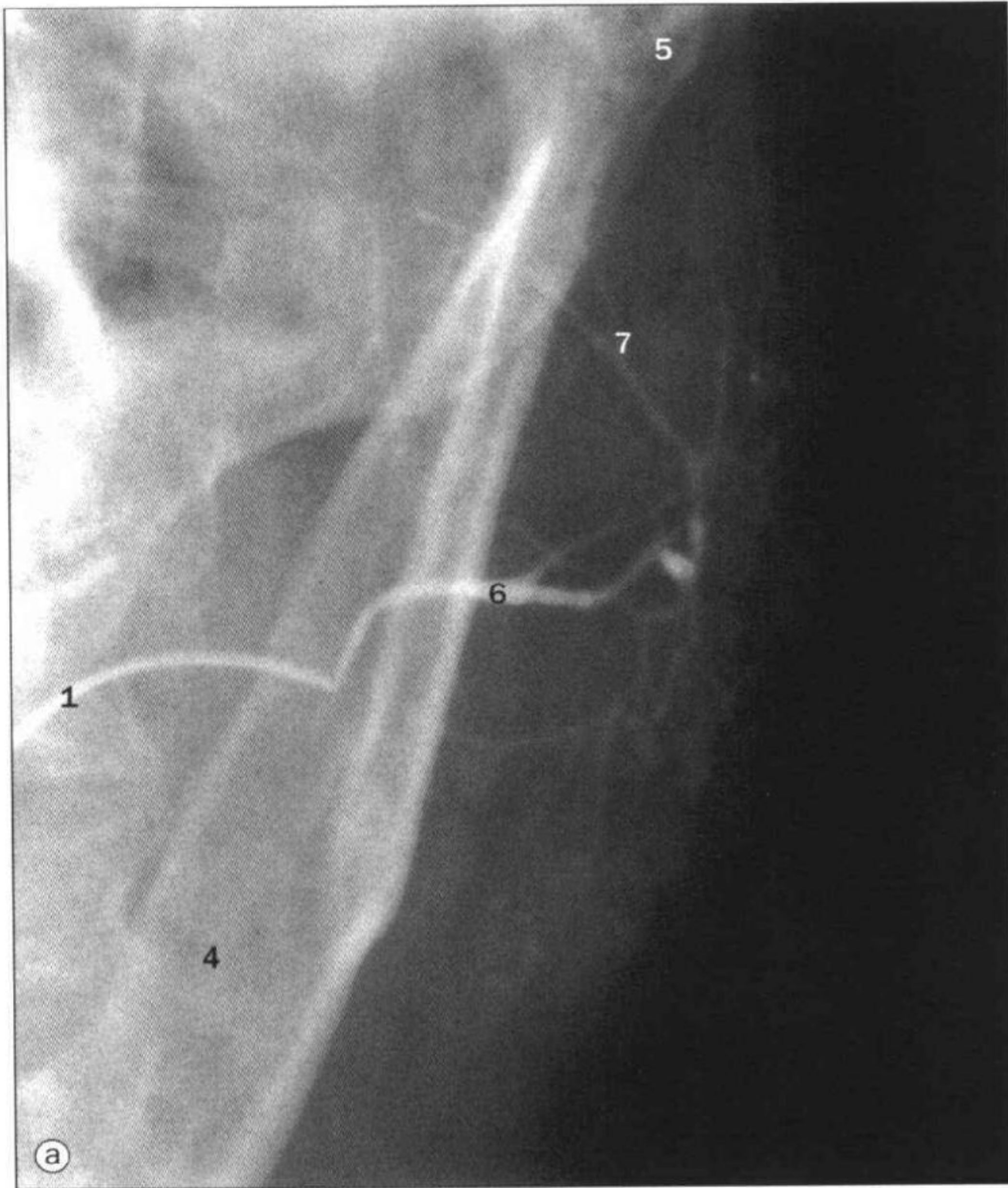
- | | |
|---|---|
| 1 颈升动脉
ascending cervical artery | 14 对比剂返流入椎动脉 reflux of
contrast into vertebral artery |
| 2 咽升动脉
ascending pharyngeal artery | 15 锁骨下动脉 subclavian artery |
| 3 气管内导管 endotracheal tube | 16 颏下动脉 submental artery |
| 4 面动脉 facial artery | 17 颞浅动脉
superficial temporal artery |
| 5 甲状腺下动脉
inferior thyroid artery | 18 甲状腺上动脉
superior thyroid artery |
| 6 眶下动脉 infra-orbital artery | 19 肩胛上动脉
suprascapular artery |
| 7 面动脉唇支
labial branch of facial artery | 20 甲状腺下动脉甲状腺支
thyroid branches of inferior
thyroid artery |
| 8 舌动脉 lingual artery | 21 颈外动脉内的导管头 tip of
catheter in external carotid artery |
| 9 上颌动脉 maxillary artery | 22 甲状颈干内的导管头 tip of
catheter in thyrocervical trunk |
| 10 脑膜中动脉
middle meningeal artery | 23 颈横动脉
transverse cervical artery |
| 11 枕动脉 occipital artery | |
| 12 耳后动脉 posterior auricular artery | |
| 13 上牙槽后动脉
posterior superior alveolar artery | |



d. 颈部静脉造影; e. 颈部静脉, 磁共振血管造影。

- | |
|---|
| 1 颈总动脉 common carotid artery |
| 2 颈外动脉 external carotid artery |
| 3 甲状腺下静脉 inferior thyroid vein |
| 4 颈内动脉 internal carotid artery |
| 5 颈内静脉 internal jugular vein |
| 6 舌静脉 lingual vein |
| 7 甲状腺上静脉 superior thyroid vein |
| 8 甲状腺中静脉内的导管头
tip of catheter in middle thyroid vein |
| 9 椎动脉 vertebral artery |

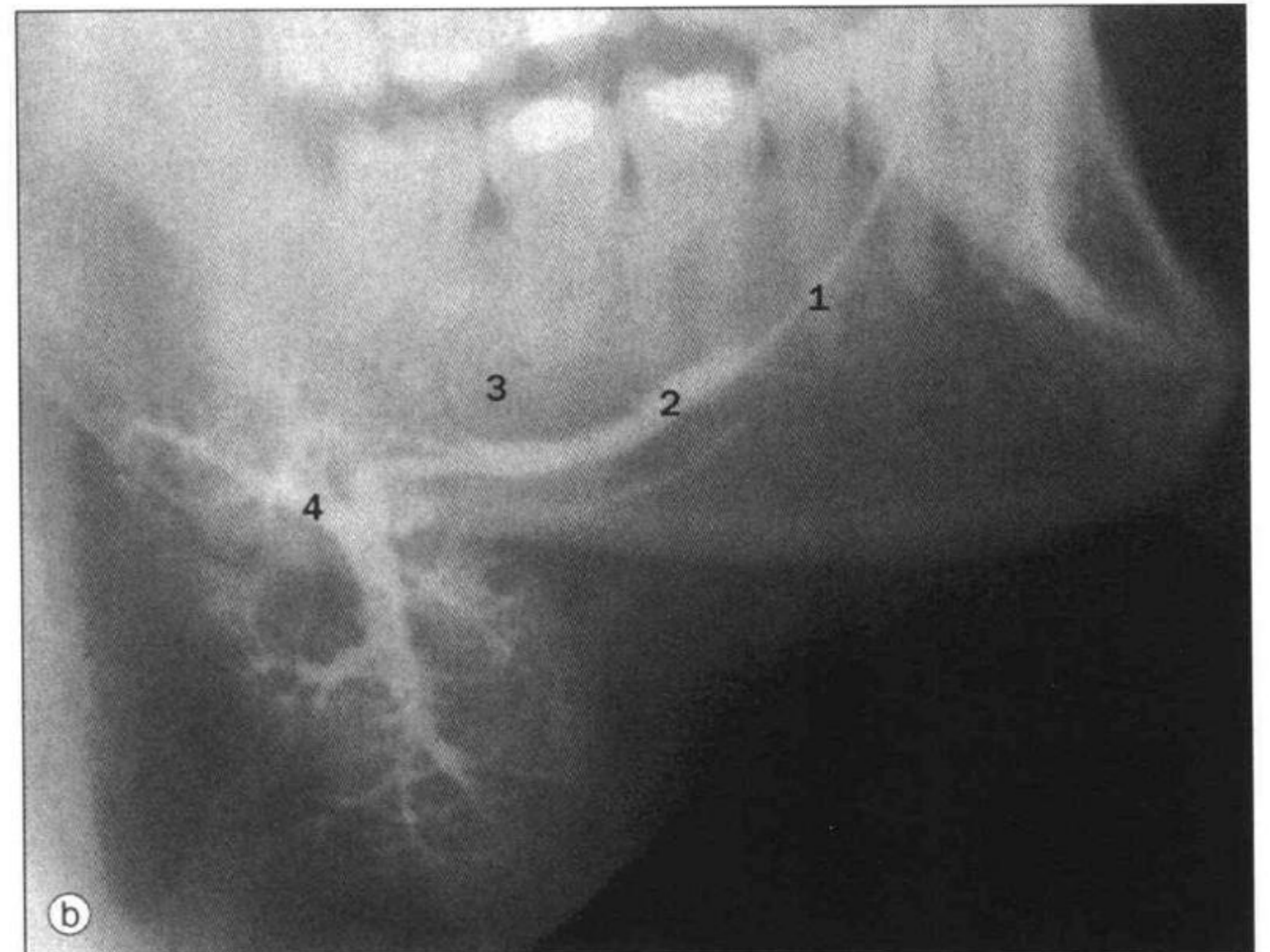
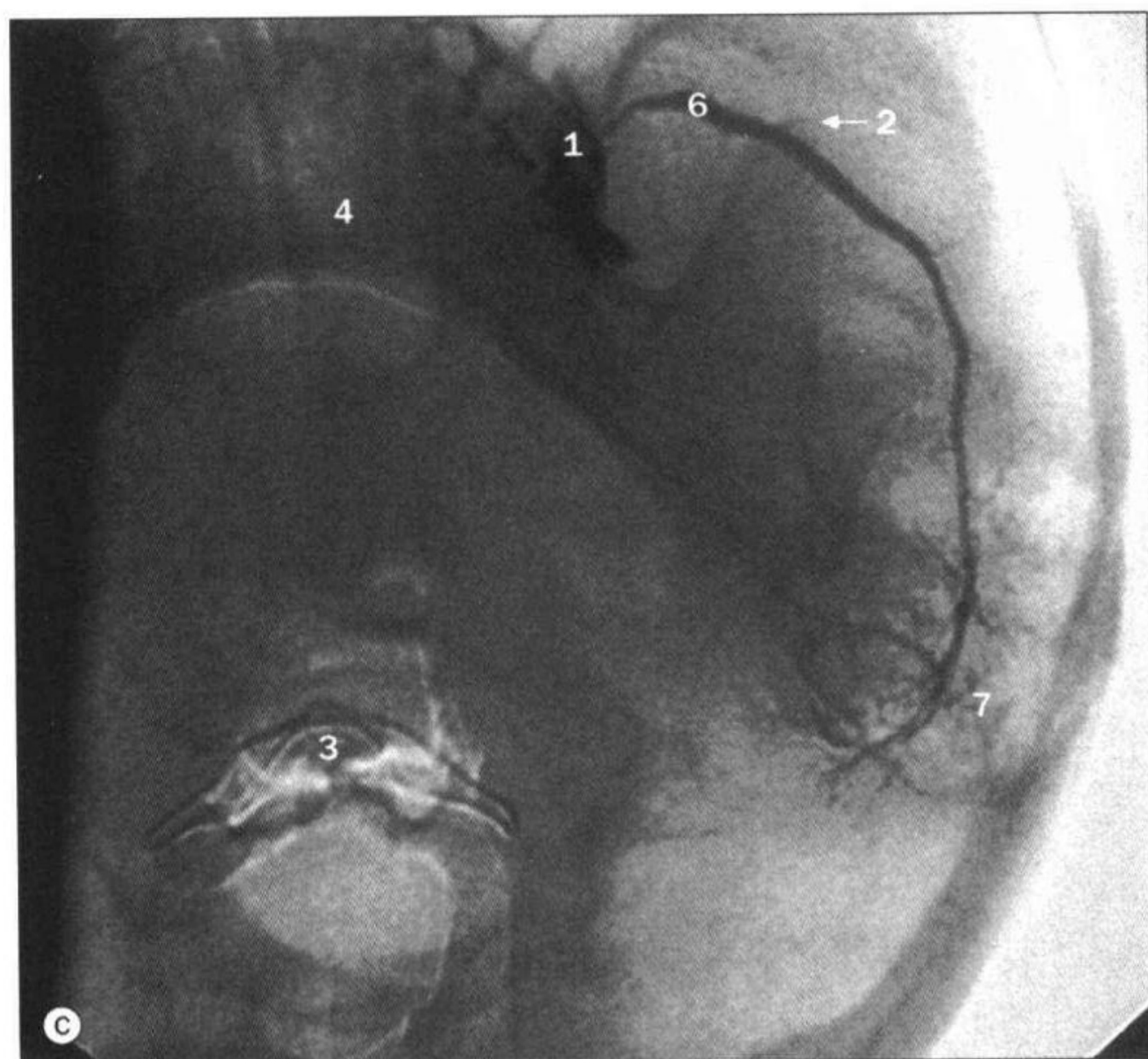




a. 腮腺, X线造影。

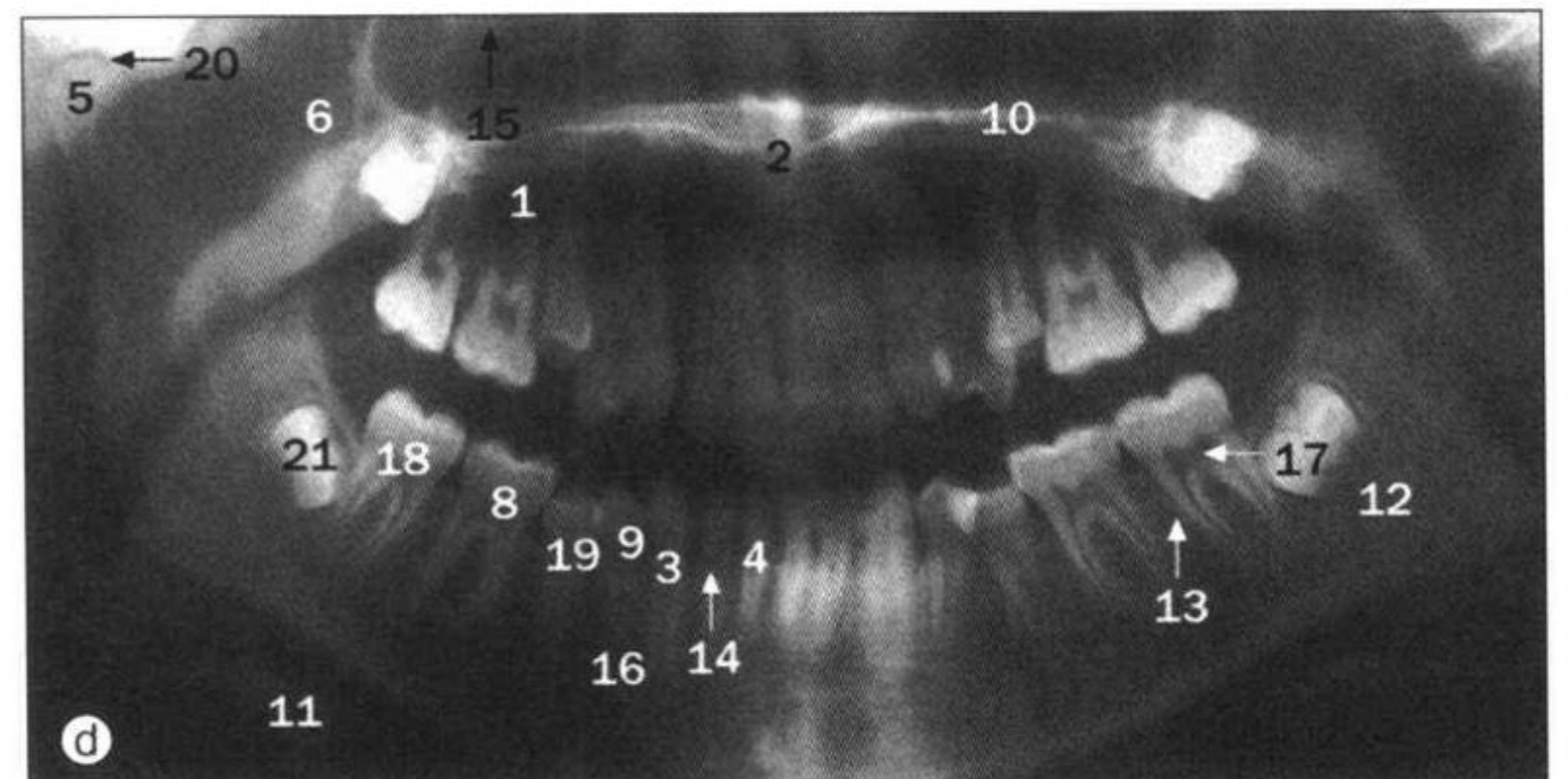
- 1 导管 catheter
- 2 下颌骨冠突 coronoid process of mandible
- 3 舌骨 hyoid bone
- 4 下颌骨 mandible
- 5 乳突 mastoid process
- 6 腮腺管 parotid (Stensen's) duct
- 7 次级小管 secondary ductules

c. 腮腺, 颞下垂直位 X线造影。



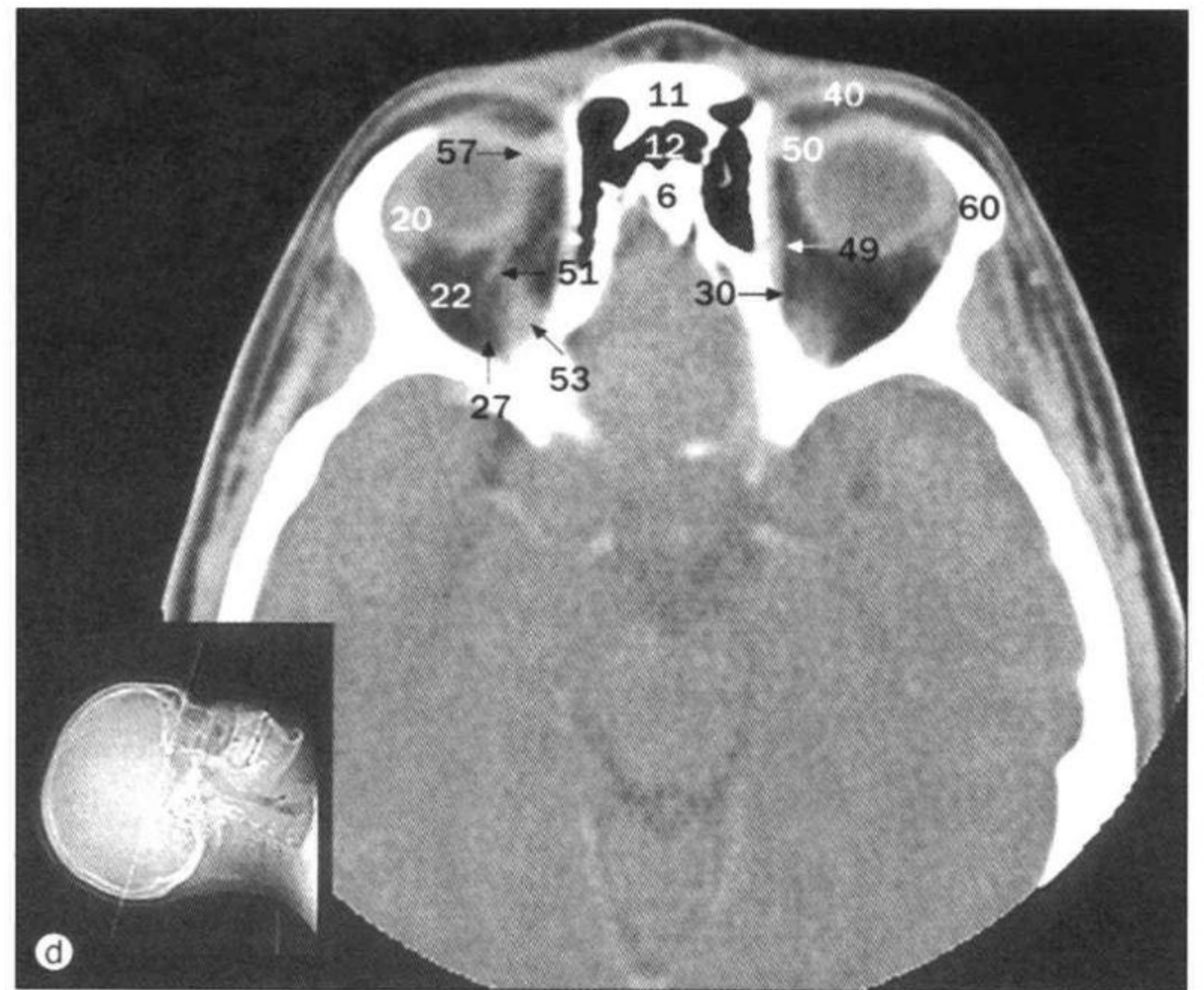
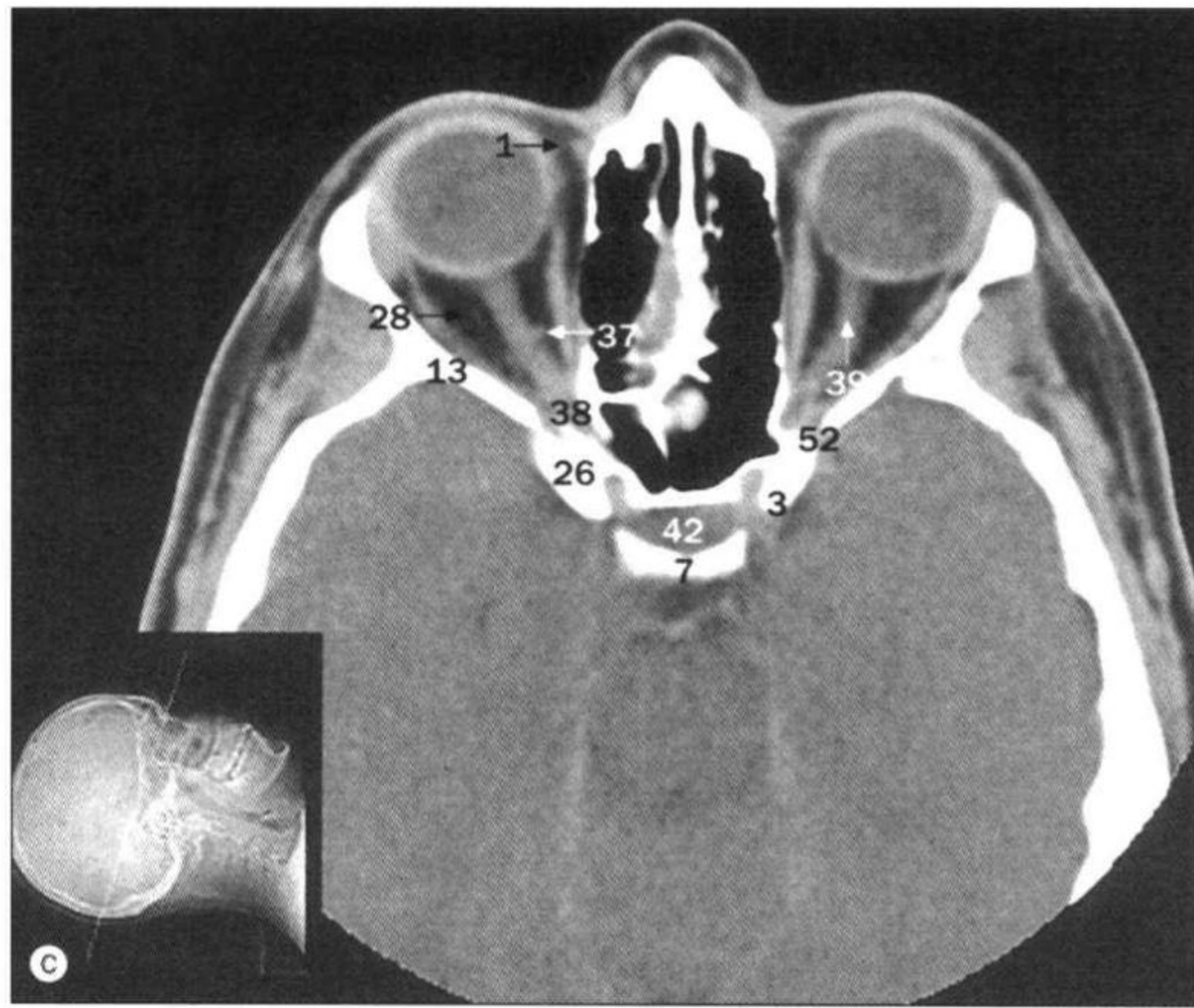
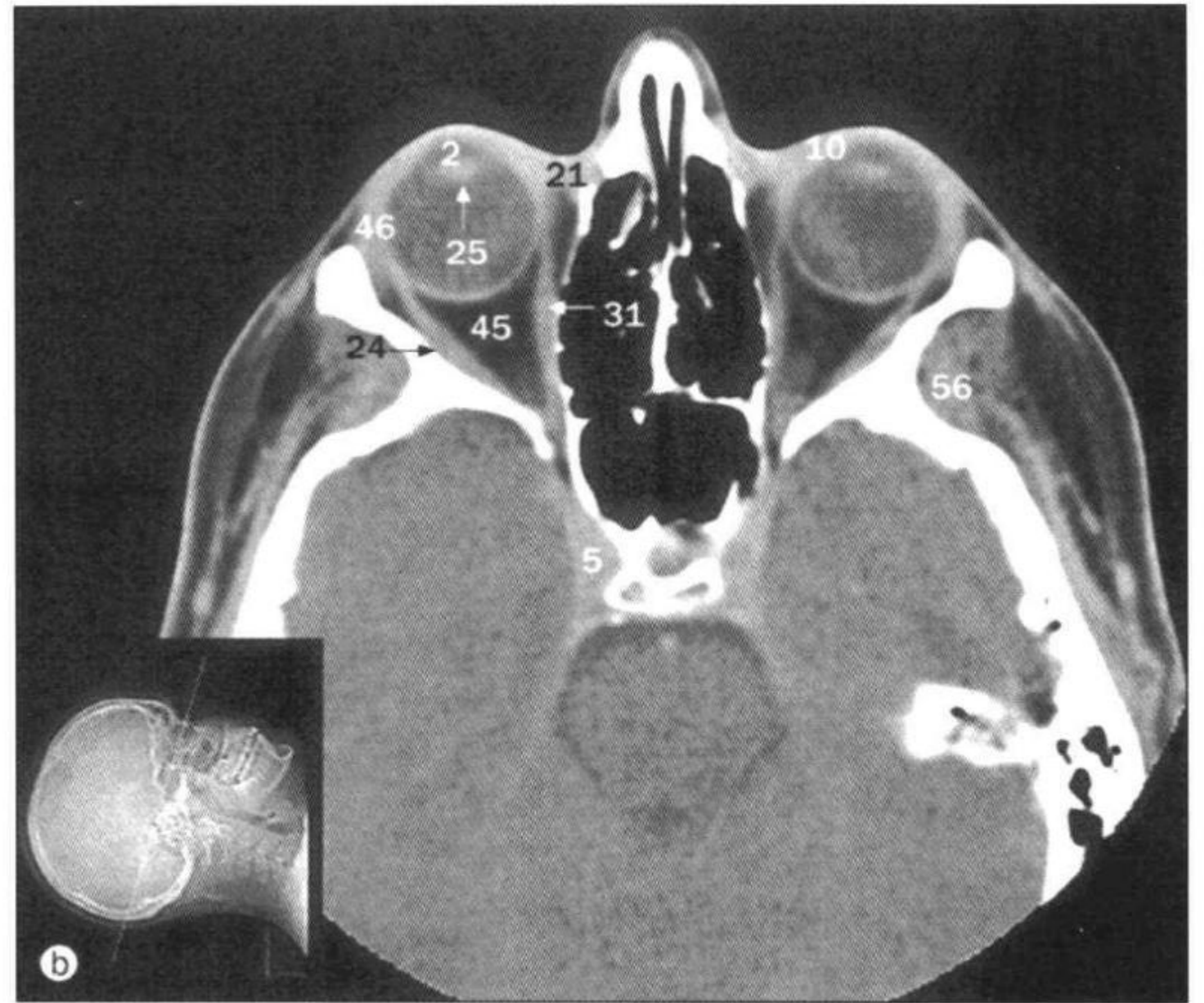
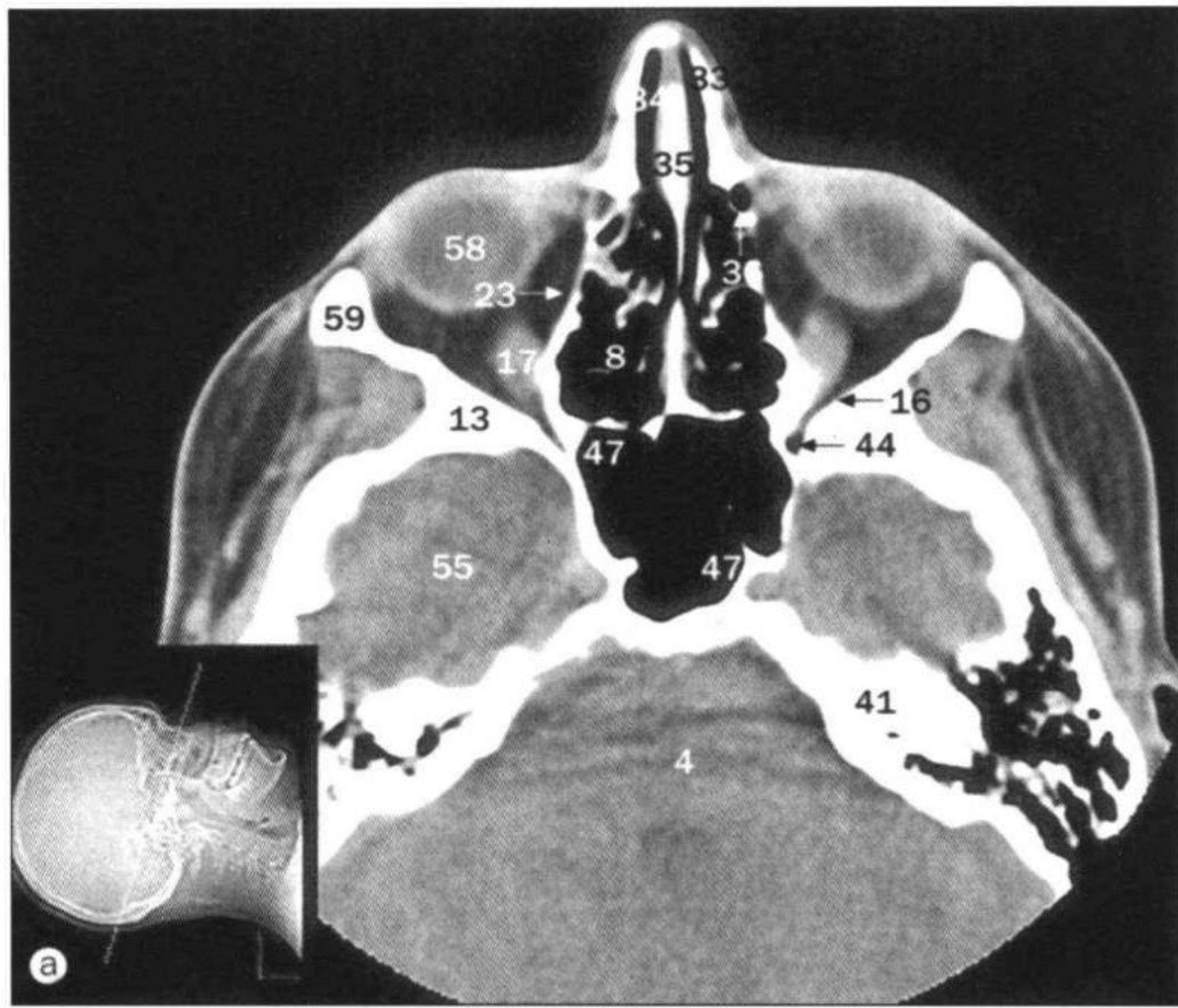
b. 下颌下腺, X线造影。

- 1 导管 catheter
- 2 下颌下腺管 main submandibular (Wharton's) duct
- 3 下颌骨 mandible
- 4 次级小管 secondary ductules



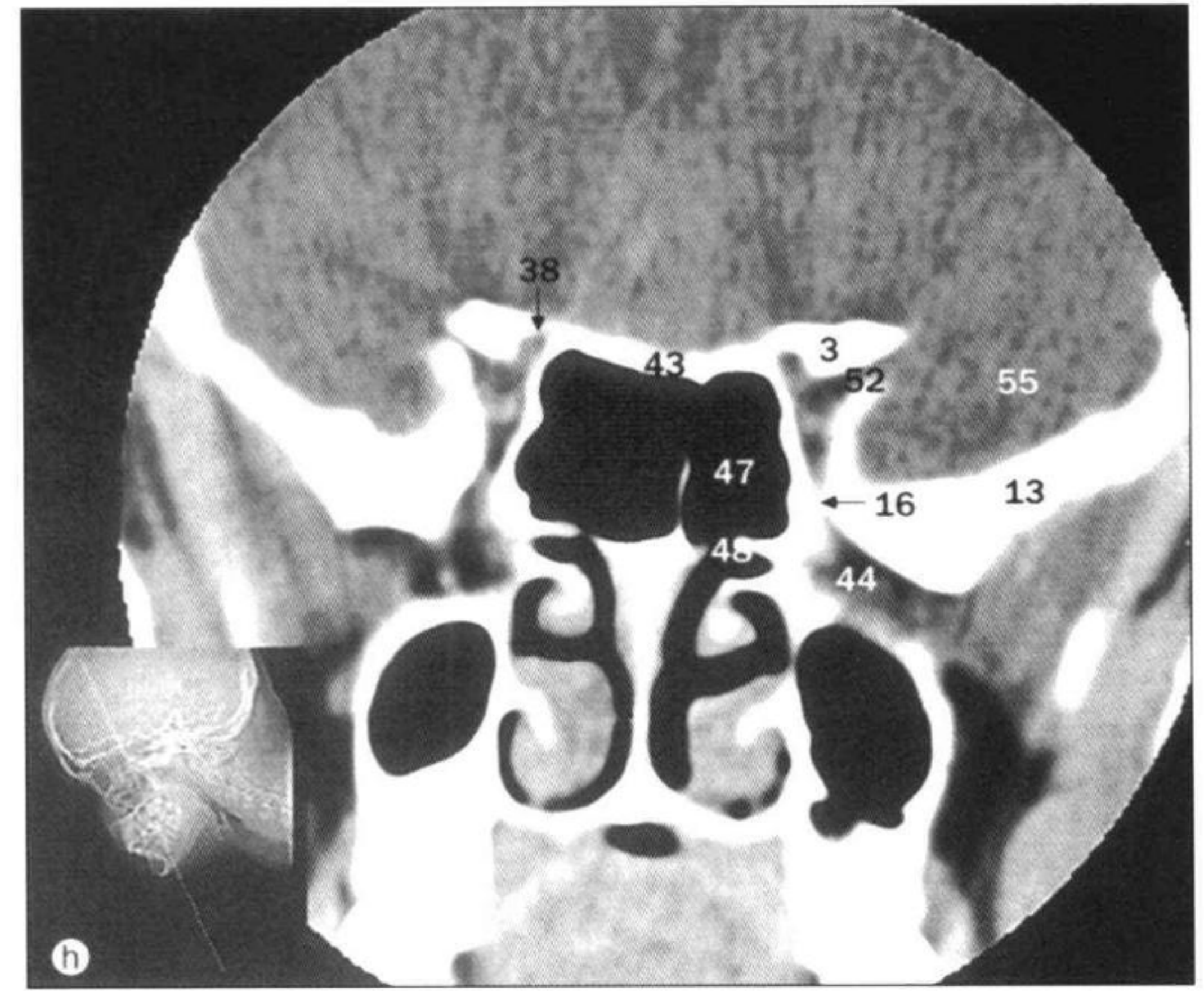
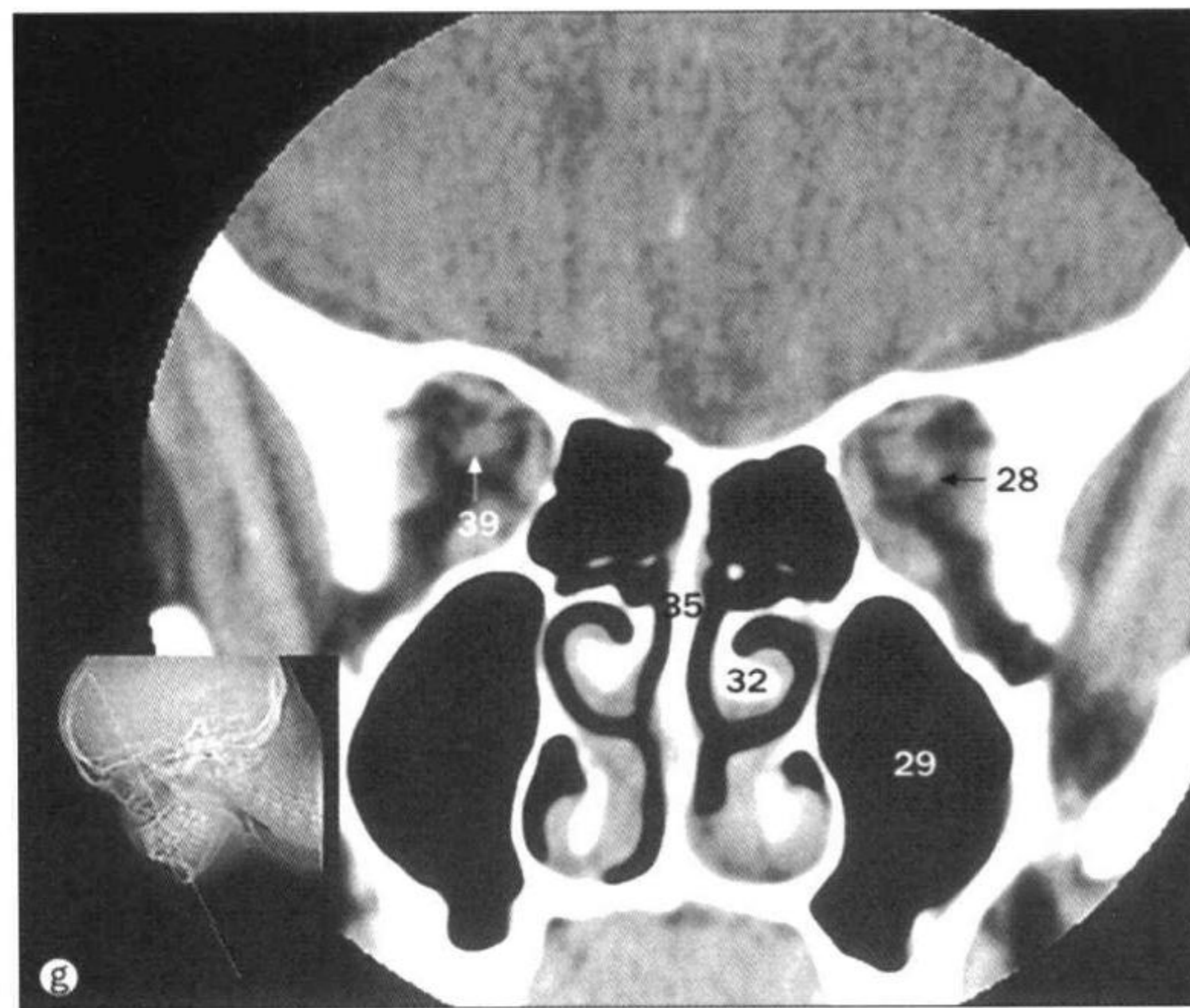
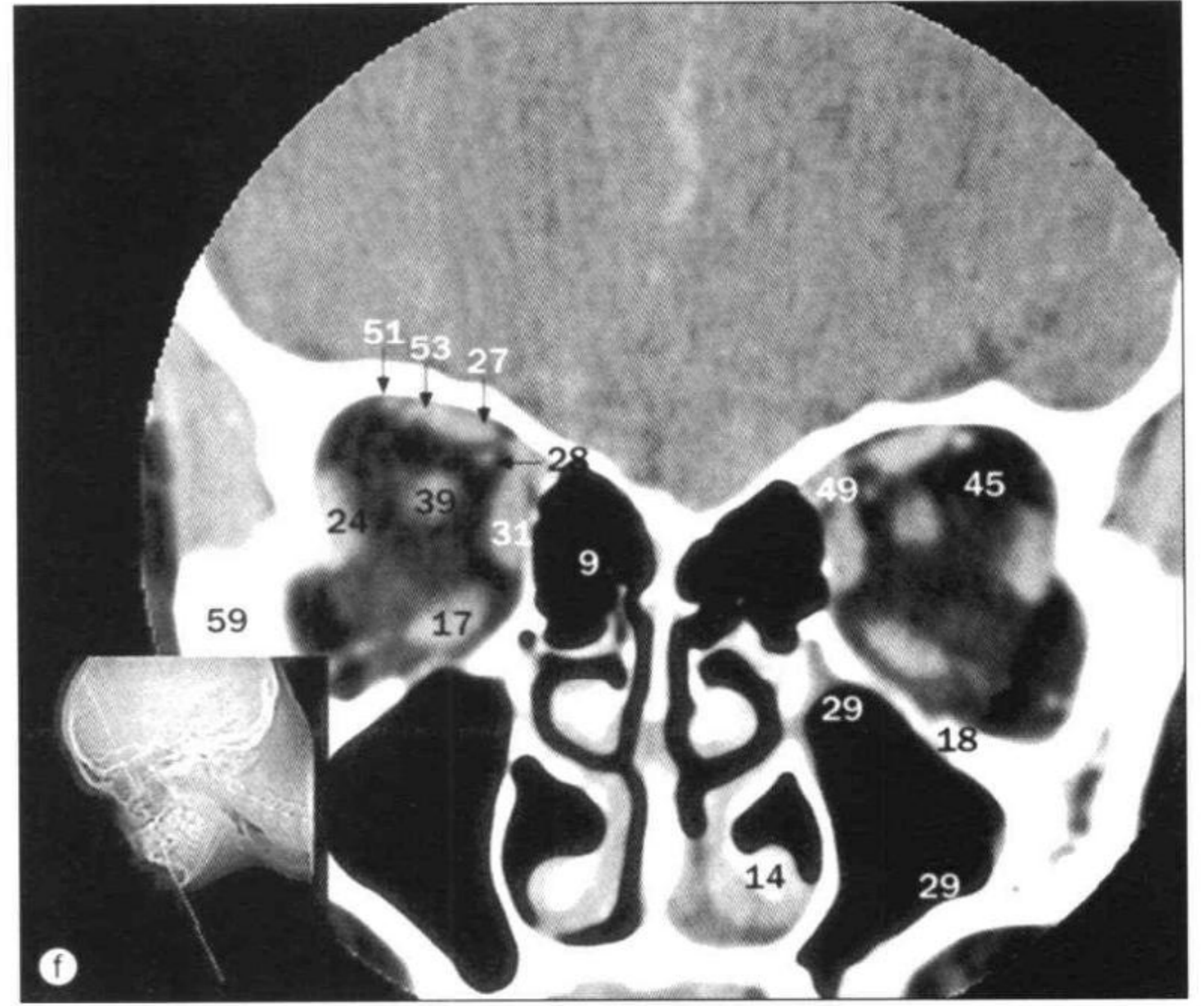
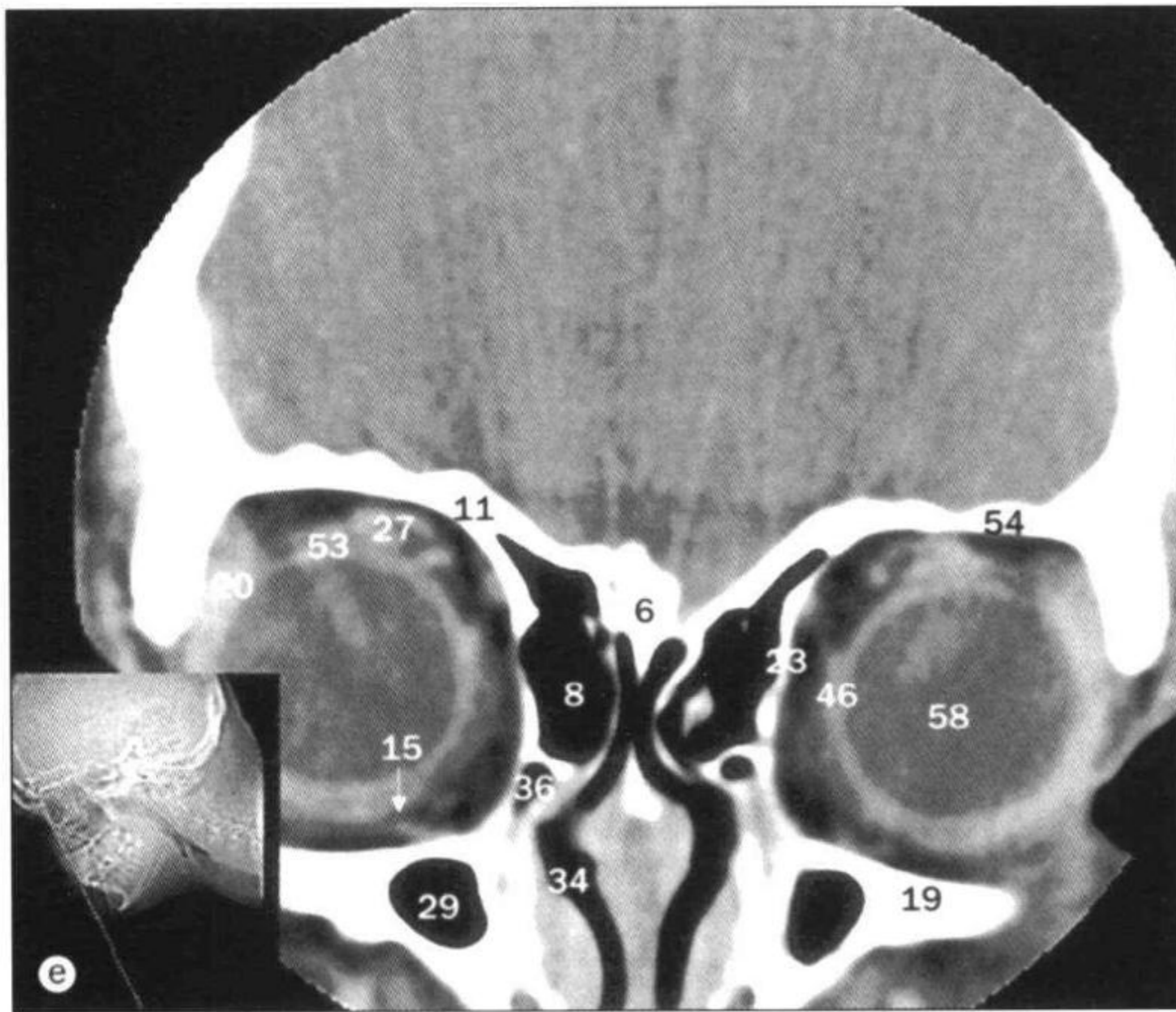
d. 全颌曲面断层 X线片。

- | | |
|---|-------------------------------------|
| 1 上颌骨牙槽突
alveolar process of maxilla | 11 舌骨 hyoid bone |
| 2 鼻前棘
anterior nasal spine | 12 下牙槽管
inferior alveolar canal |
| 3 尖牙 canine | 13 牙固有层 lamina propria |
| 4 中切牙 central incisor | 14 侧切牙 lateral incisor |
| 5 下颌骨髁突
condyle of mandible | 15 上颌窦
maxillary sinus (antrum) |
| 6 下颌骨冠突 coronoid
process of mandible | 16 颞孔 mental foramen |
| 7 外耳门
external acoustic meatus | 17 牙冠腔 pulp chamber |
| 8 第1磨牙 first molar | 18 第2磨牙 second molar |
| 9 第1前磨牙 first premolar | 19 第2前磨牙
second premolar |
| 10 硬腭 hard palate | 20 颞下颌关节
temporomandibular joint |
| | 21 第3磨牙 third molar |



眶。a~d. 轴位 CT, 不同层面扫描: a. 眶下方和眼球; b. 视神经下眶中部; c. 视神经水平眶中部; d. 眶上。e~h. 冠状位 CT, 不同层面扫描: e. 眼球; f. 眶中部; g. 眶后部; h. 眶上裂和眶下裂。

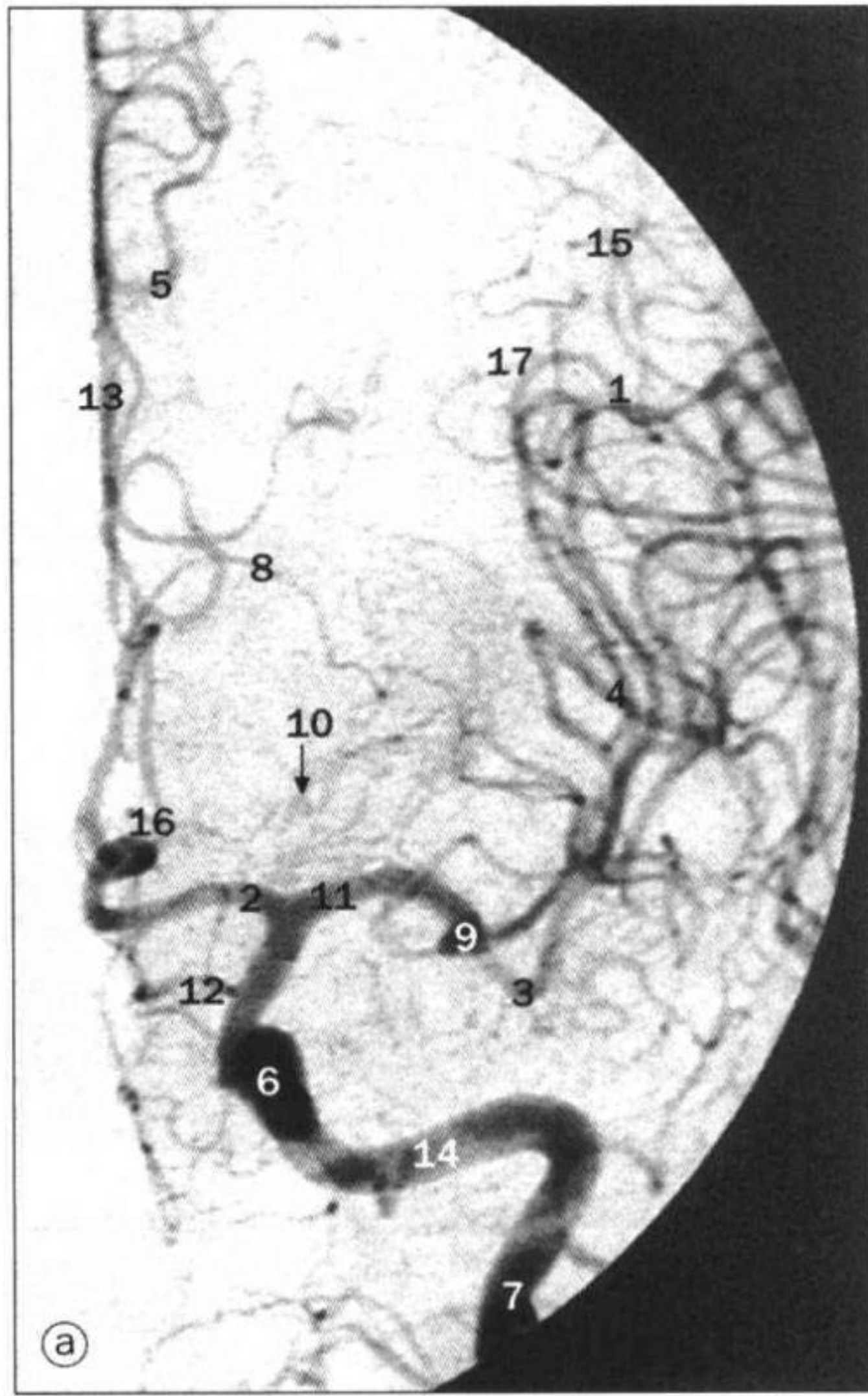
- | | | |
|-------------------------------------|---|--|
| 1 内眦静脉 angular vein | 13 蝶骨大翼
greater wing of sphenoid | 23 筛骨纸状板 lamina papyracea |
| 2 前房 anterior chamber | 14 下鼻甲
inferior nasal concha (turbinate) | 24 外直肌 lateral rectus muscle |
| 3 前床突 anterior clinoid process | 15 下斜肌 inferior oblique muscle | 25 晶状体 lens |
| 4 脑干 brainstem | 16 眶下裂 inferior orbital fissure | 26 蝶骨小翼 lesser wing of sphenoid |
| 5 海绵窦 cavernous sinus | 17 下直肌 inferior rectus muscle | 27 上睑提肌
levator palpebrae superioris muscle |
| 6 鸡冠 crista galli | 18 眶下管 infra-orbital canal | 28 睫后长动脉
long posterior ciliary artery |
| 7 鞍背 dorsum sellae | 19 眶下缘 infra-orbital margin | 29 上颌窦 maxillary sinus (antrum) |
| 8 筛窦 ethmoidal sinuses | 20 泪腺 lacrimal gland | 30 眼内静脉
medial ophthalmic vein |
| 9 后筛窦 ethmoidal sinuses (posterior) | 21 泪囊 lacrimal sac | 31 内直肌 medial rectus muscle |
| 10 眼睑 eyelid | 22 泪腺静脉 lacrimal vein | |
| 11 额骨 frontal bone | | |
| 12 额窦 frontal sinus | | |



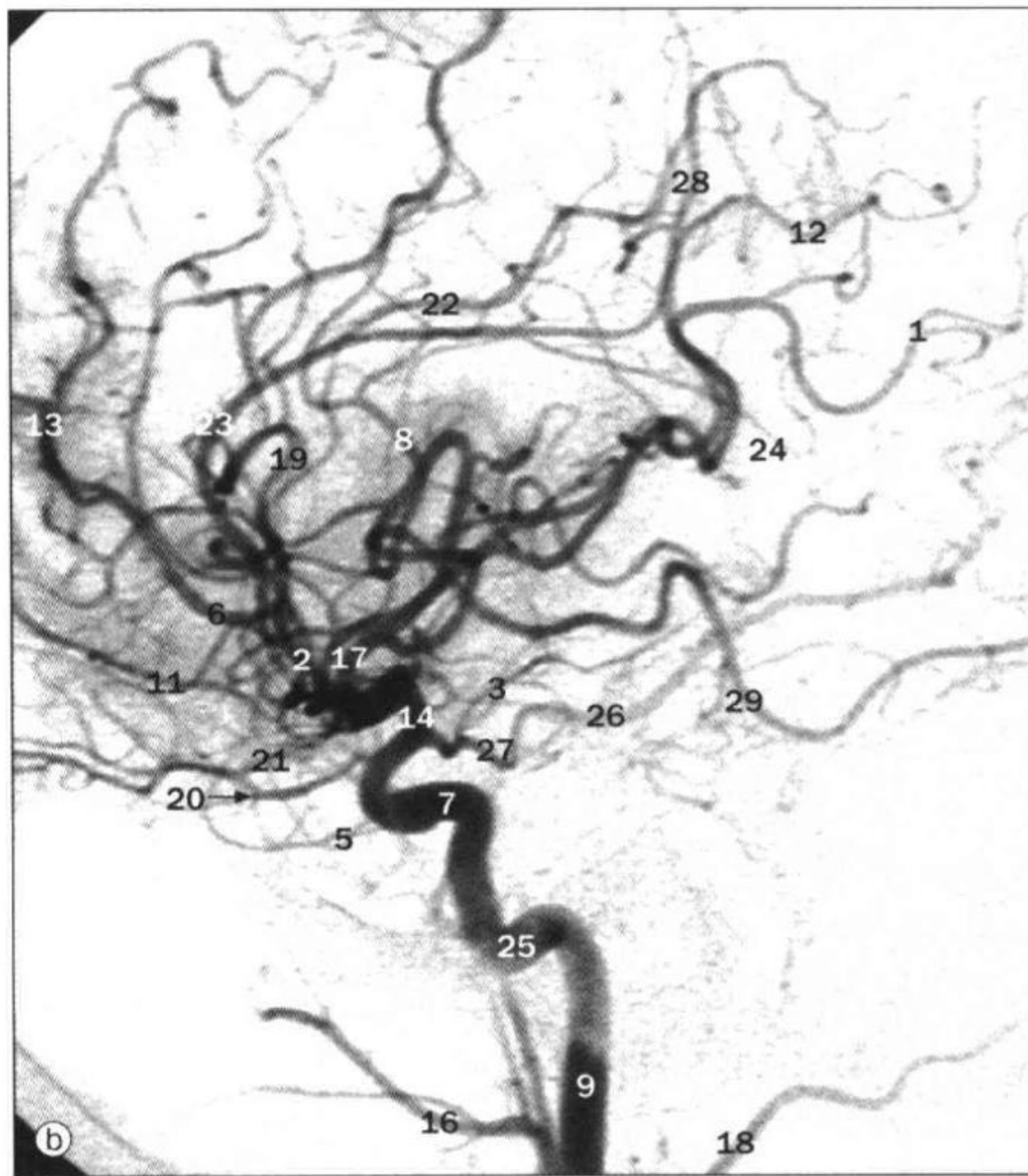
32 中鼻甲
middle nasal concha (turbinate)
33 鼻骨 nasal bone
34 鼻腔 nasal cavity
35 鼻中隔 nasal septum
36 鼻泪管 nasolacrimal duct
37 眼动脉 ophthalmic artery
38 视神经管 optic canal
39 视神经 optic nerve
40 眼轮匝肌 orbicularis muscle
41 岩嵴 petrous ridge
42 垂体 pituitary gland

43 蝶骨平面 planum sphenoidale
44 翼腭窝 pterygopalatine fossa
45 球后脂肪 retrobulbar fat
46 巩膜 sclera
47 蝶窦 sphenoidal sinus
48 上鼻甲
superior nasal concha (turbinate)
49 上斜肌 superior oblique muscle
50 上斜肌腱
superior oblique tendon
51 眼上静脉
superior ophthalmic vein

52 眶上裂 superior orbital fissure
53 上直肌 superior rectus muscle
54 眶上缘 supra-orbital margin
55 颞叶 temporal lobe
56 颞肌 temporalis muscle
57 上斜肌滑车 trochlea of superior oblique muscle
58 玻璃体 vitreous
59 颧骨 zygomatic bone
60 额骨颧突
zygomatic process of frontal bone



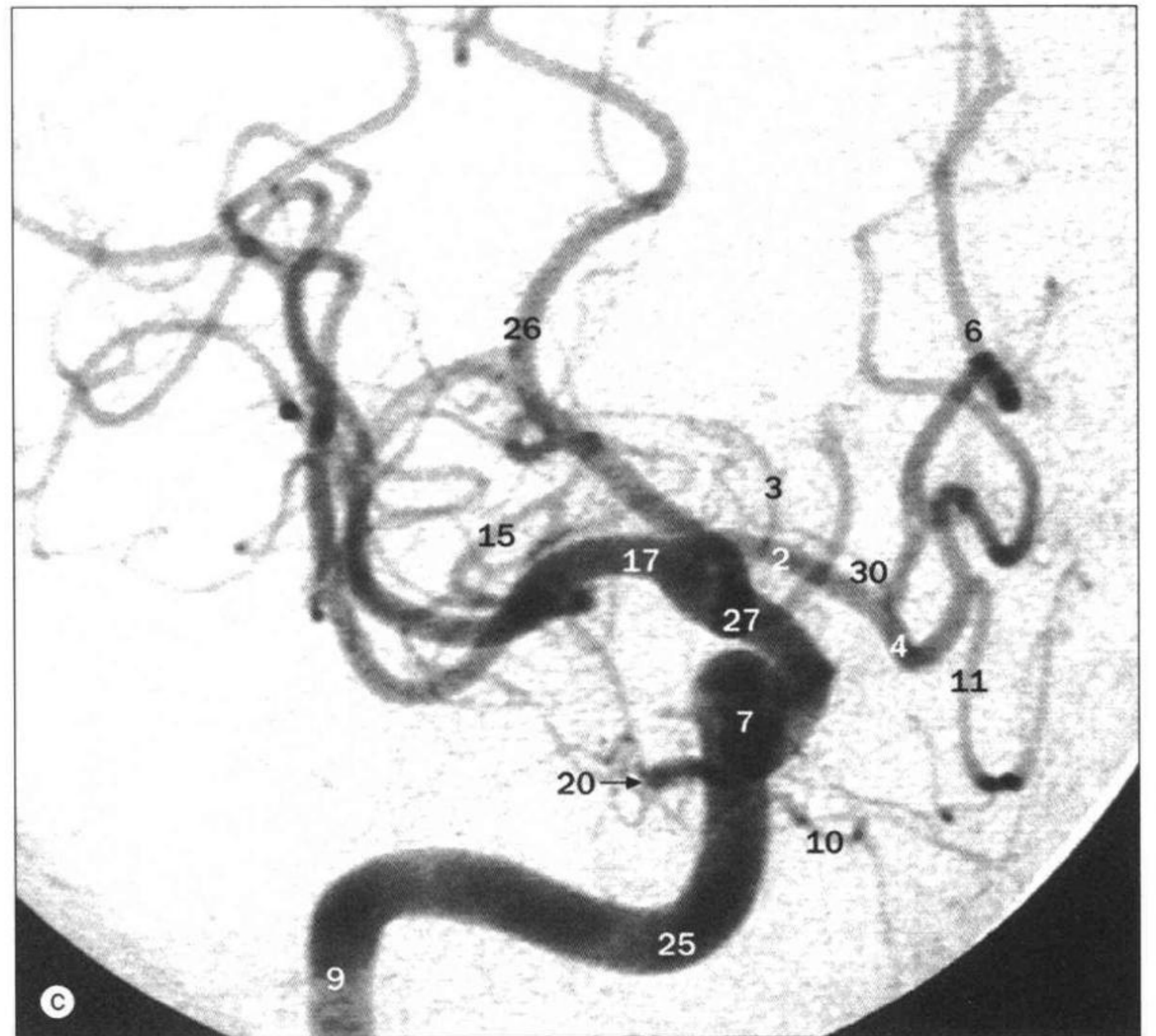
颈动脉，数字减影血管造影，动脉相。
a. 前后位；b. 侧位；c. 斜位。



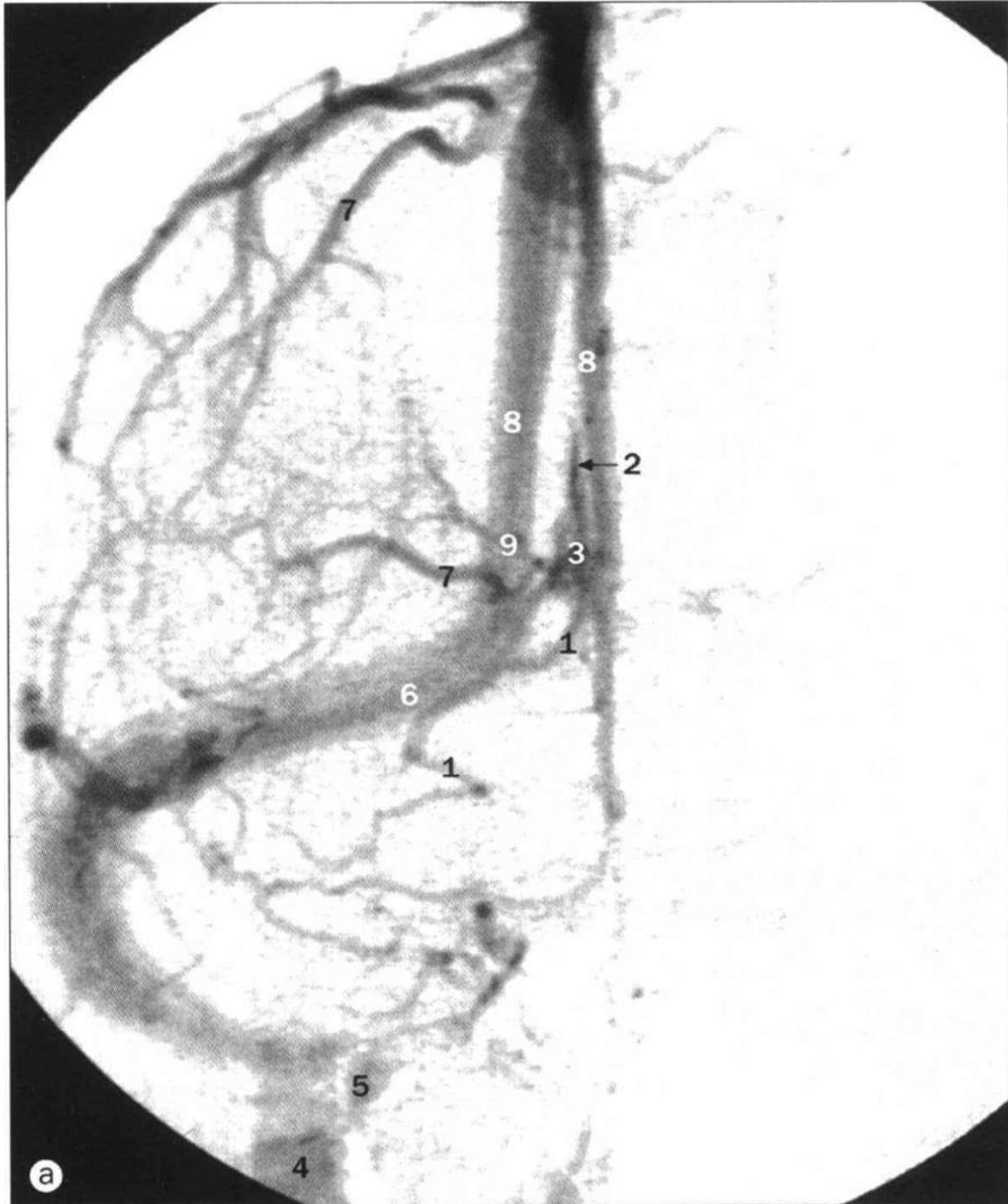
- 1 角回动脉 angular artery
- 2 大脑前动脉 anterior cerebral artery
- 3 脉络丛前动脉 anterior choroidal artery
- 4 前交通动脉 anterior communicating artery
- 5 颞叶前动脉 anterior temporal artery
- 6 胼胝体缘动脉 callosomarginal artery
- 7 颈内动脉海绵窦段 cavernous portion of internal carotid artery
- 8 中央沟动脉 central sulcus artery
- 9 颈内动脉颈段 cervical portion of internal carotid artery

- 1 大脑中动脉角回动脉 angular branches of middle cerebral artery
- 2 大脑前动脉 anterior cerebral artery
- 3 大脑中动脉颞叶前支 anterior temporal branches of middle cerebral artery
- 4 大脑中动脉脑岛支 branches (in insula) of middle cerebral artery
- 5 胼胝体缘动脉 callosomarginal artery
- 6 颈内动脉海绵窦段 cavernous portion of internal carotid artery
- 7 颈内动脉颈段 cervical portion of internal carotid artery
- 8 额极动脉 frontopolar artery

- 9 大脑中动脉膝段 genu of middle cerebral artery
- 10 豆纹动脉 lenticulostriate arteries
- 11 大脑中动脉 middle cerebral artery
- 12 胼周动脉眶额支 orbitofrontal branch of pericallosal artery
- 13 胼周动脉 pericallosal artery
- 14 颈内动脉岩段 petrous portion of internal carotid artery
- 15 大脑中动脉顶后支 posterior parietal branches of middle cerebral artery
- 16 Heubner 回返动脉 recurrent artery of Heubner
- 17 侧裂点 Sylvian point

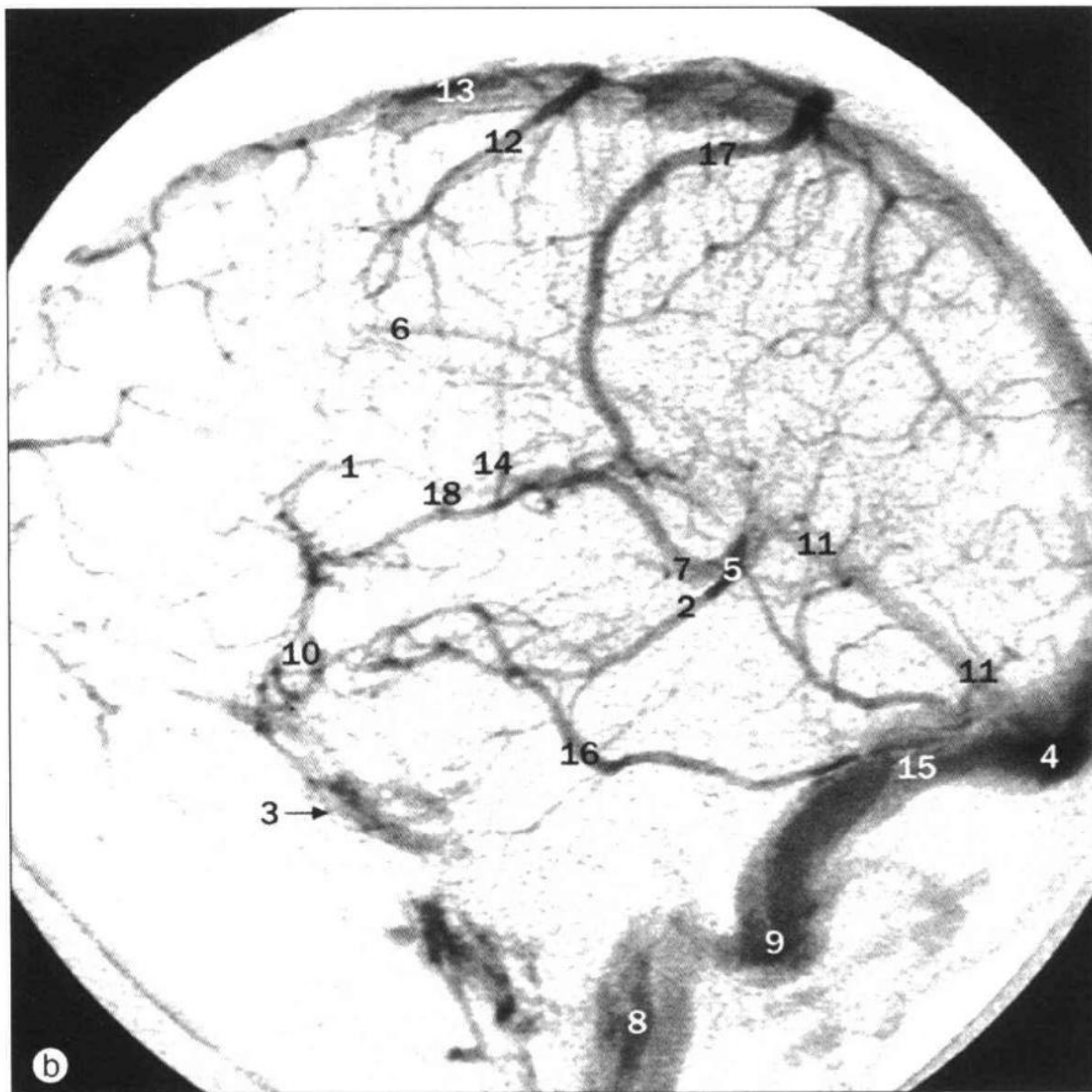


- 10 眼动脉筛前支 ethmoidal branch of ophthalmic artery
- 11 额极动脉 frontopolar artery
- 12 顶内下侧动脉 inferior internal parietal artery
- 13 大脑前动脉额叶内侧分支 internal frontal branch of anterior cerebral artery
- 14 颈内动脉颅内段 (床突上段) intracranial (supraclinoid) internal carotid artery
- 15 豆纹动脉 lenticulostriate artery
- 16 上颌动脉 maxillary artery
- 17 大脑中动脉 middle cerebral artery
- 18 枕动脉 occipital artery
- 19 岛盖额部动脉 operculofrontal artery
- 20 眼动脉 ophthalmic artery
- 21 眶额动脉 orbitofrontal artery
- 22 旁中央动脉 paracentral artery
- 23 胼周动脉 pericallosal artery
- 24 胼周动脉向胼胝体的延伸段 pericallosal artery extending around corpus callosum
- 25 颈内动脉岩段 petrous portion of internal carotid artery
- 26 大脑后动脉 posterior cerebral artery
- 27 后交通动脉 posterior communicating artery
- 28 顶叶后动脉 posterior parietal artery
- 29 颞叶后动脉 posterior temporal artery
- 30 Heubner 回返动脉 recurrent artery of Heubner



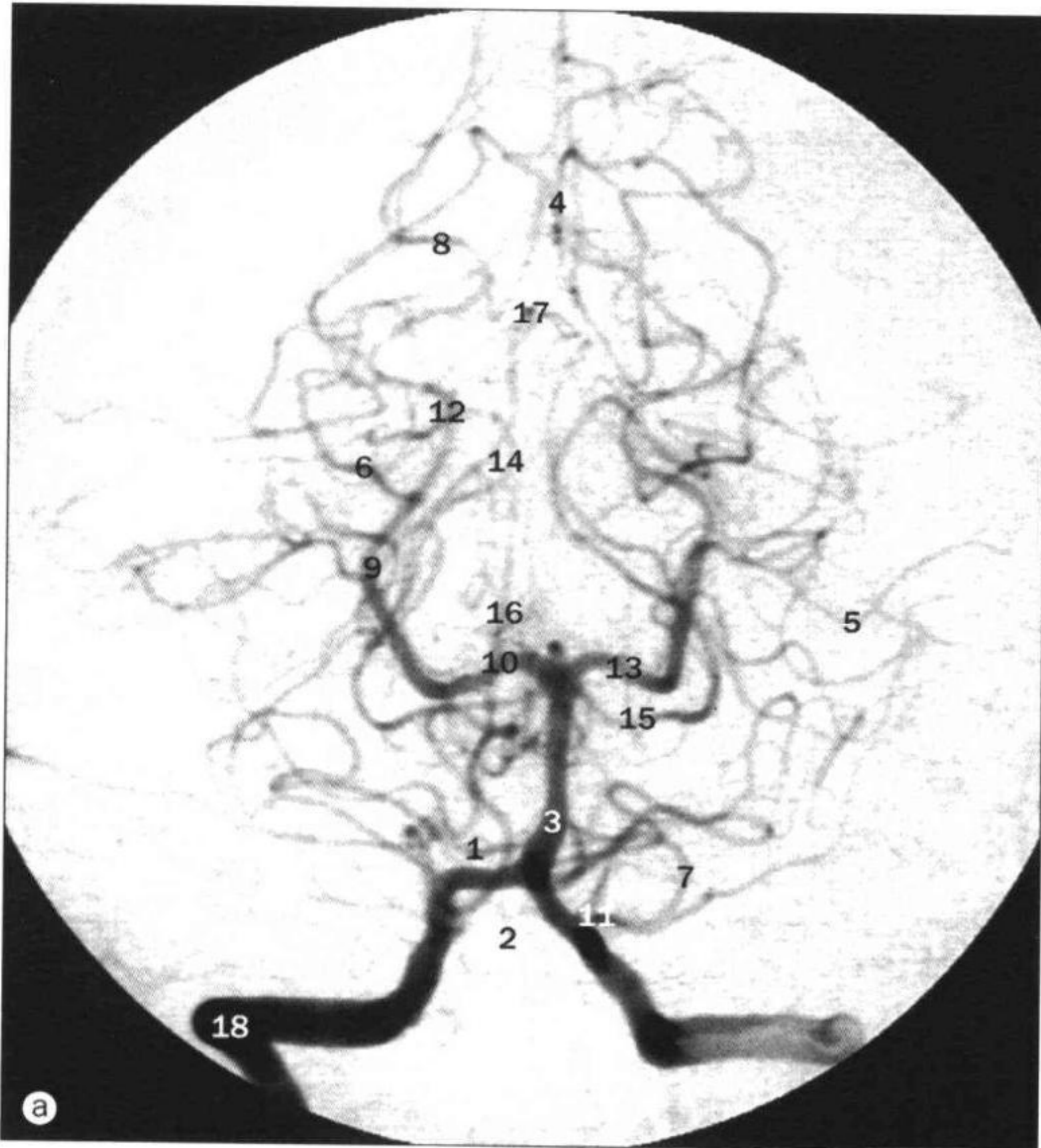
a. 颈动脉, 数字减影血管造影, 静脉相, 前后位。

- 1 Rosenthal 基底静脉 basal vein of Rosenthal
- 2 下矢状窦 inferior sagittal sinus
- 3 大脑内静脉 internal cerebral vein
- 4 颈内静脉 internal jugular vein
- 5 颈静脉球 jugular bulb
- 6 右侧横窦 right transverse sinus
- 7 浅皮质静脉 superficial cortical veins
- 8 上矢状窦 superior sagittal sinus
- 9 丘脑纹静脉 thalamostriate vein



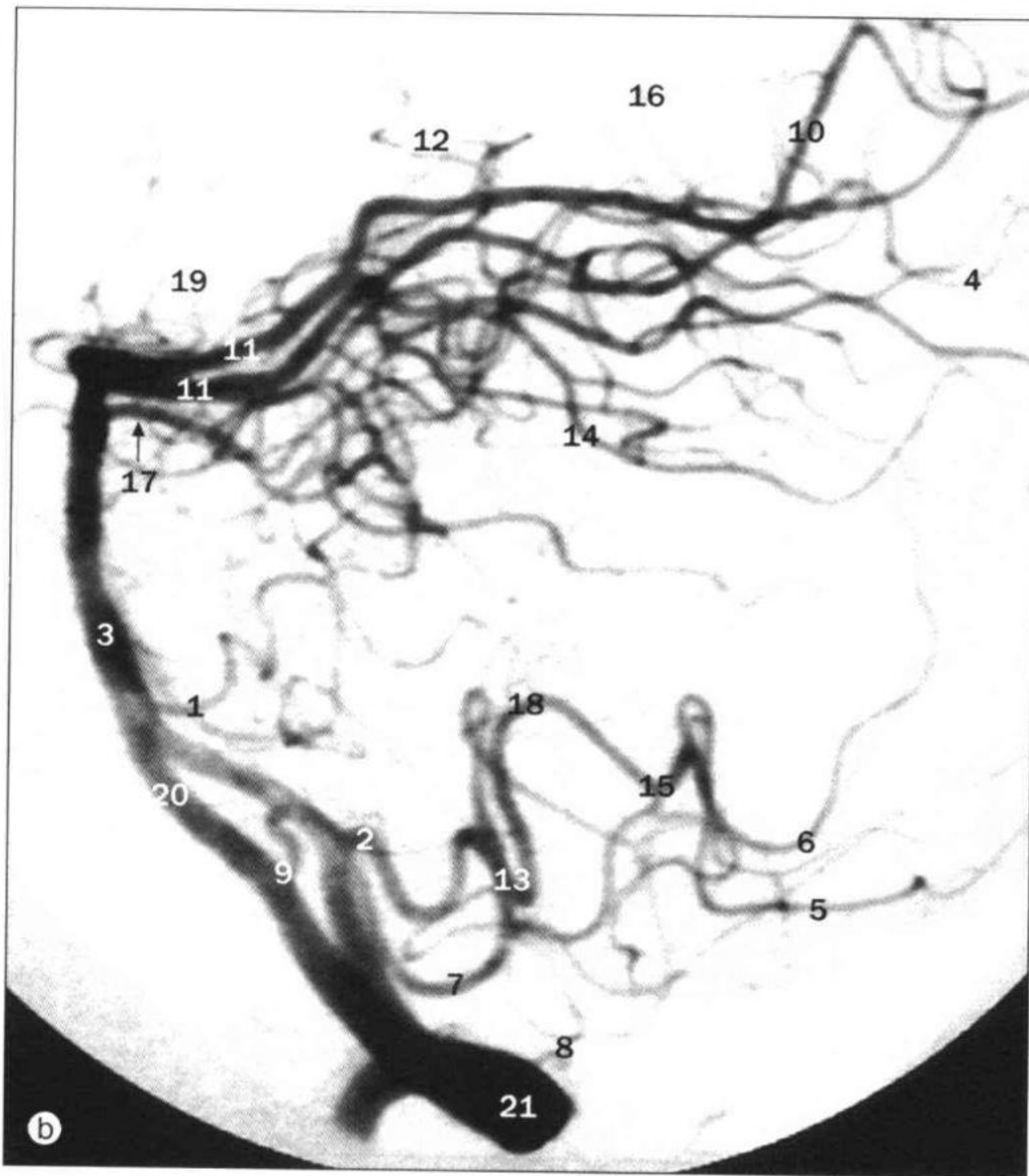
b. 颈动脉, 数字减影血管造影, 静脉相, 侧位。

- 1 尾状核前静脉 anterior caudate vein
- 2 Rosenthal 基底静脉 basal vein of Rosenthal
- 3 海绵窦 cavernous sinus
- 4 窦汇
confluence of venous sinuses (torcular Herophili)
- 5 大脑大静脉 great cerebral vein of Galen
- 6 下矢状窦 inferior sagittal sinus
- 7 大脑内静脉 internal cerebral vein
- 8 颈内静脉 internal jugular vein
- 9 乙状窦 sigmoid sinus
- 10 蝶顶窦 sphenoparietal sinus
- 11 直窦 straight sinus
- 12 大脑上静脉 superficial cerebral veins
- 13 上矢状窦 superior sagittal sinus
- 14 丘脑纹静脉 thalamostriate vein
- 15 横窦 transverse sinus
- 16 Labbé 静脉 vein of Labbé
- 17 Trolard 静脉 vein of Trolard
- 18 静脉角 venous angle



a. 椎动脉, 数字减影血管造影, 动脉相, 前后位。

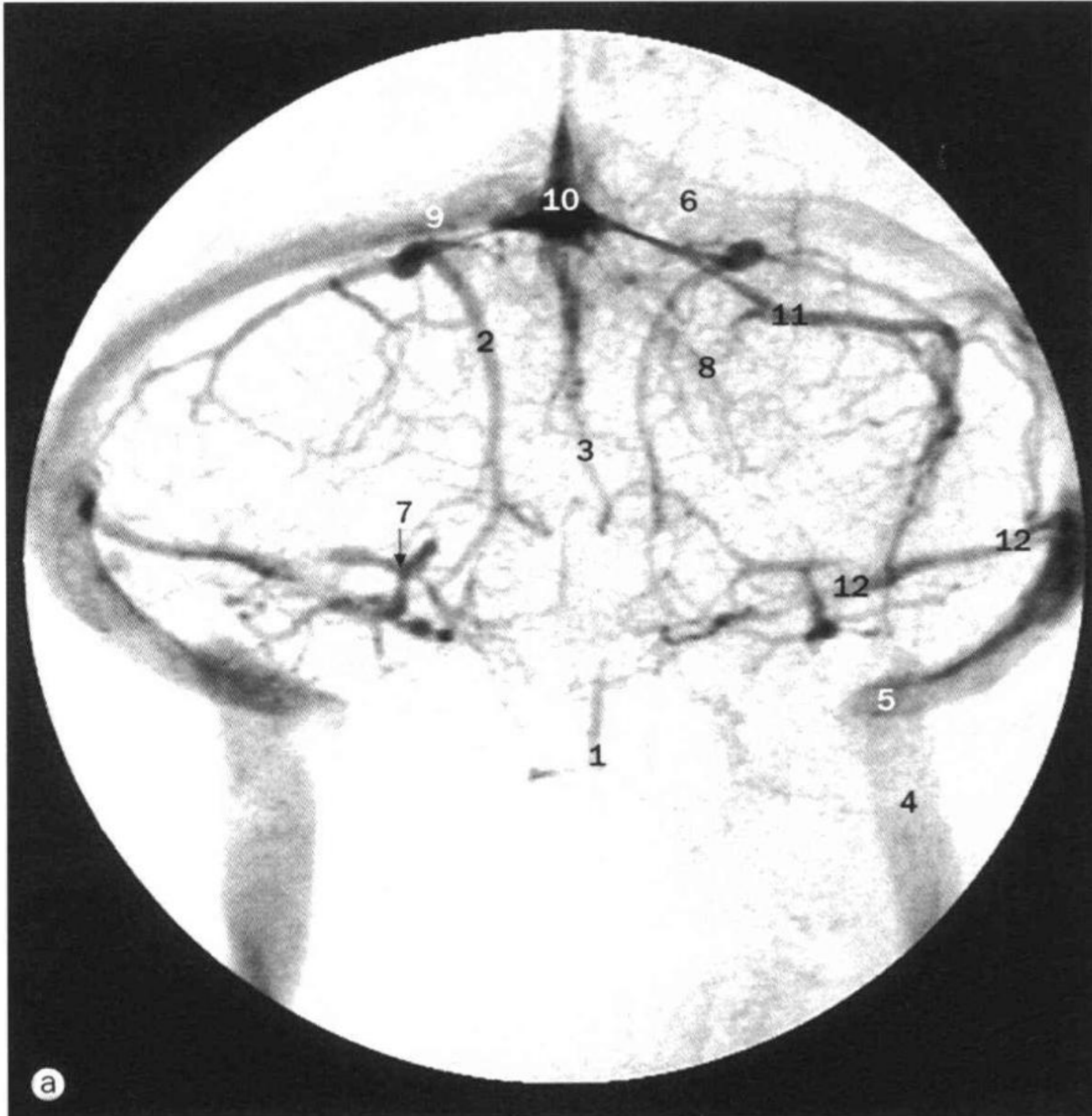
- 1 小脑下前动脉 anterior inferior cerebellar artery
- 2 脊髓前动脉 anterior spinal artery
- 3 基底动脉 basilar artery
- 4 距状沟动脉 calcarine artery
- 5 小脑上动脉半球支 hemispheric branch of superior cerebellar artery
- 6 颞下动脉 inferior temporal artery
- 7 小脑下后动脉延髓支 medullary segment of posterior inferior cerebellar artery
- 8 顶枕动脉 parieto-occipital artery
- 9 环池内的大脑后动脉 posterior cerebral artery in ambient cistern
- 10 脚间池内的大脑后动脉 posterior cerebral artery in interpeduncular cistern
- 11 小脑下后动脉 posterior inferior cerebellar artery
- 12 大脑后动脉四叠体部 quadrigeminal portion of posterior cerebral artery
- 13 后交通动脉连接部 site of junction with posterior communicating artery
- 14 脑干后方的小脑上动脉 superior cerebellar arteries behind brainstem
- 15 小脑上动脉 superior cerebellar artery
- 16 小脑上动脉丘脑穿支 thalamoperforating branches of superior cerebellar artery
- 17 小脑上动脉蚓支 vermian branch of superior cerebellar artery
- 18 寰椎横突孔处的椎动脉 vertebral artery exiting transverse foramen of atlas (first cervical vertebra)



b. 椎动脉, 数字减影血管造影, 动脉相, 侧位。

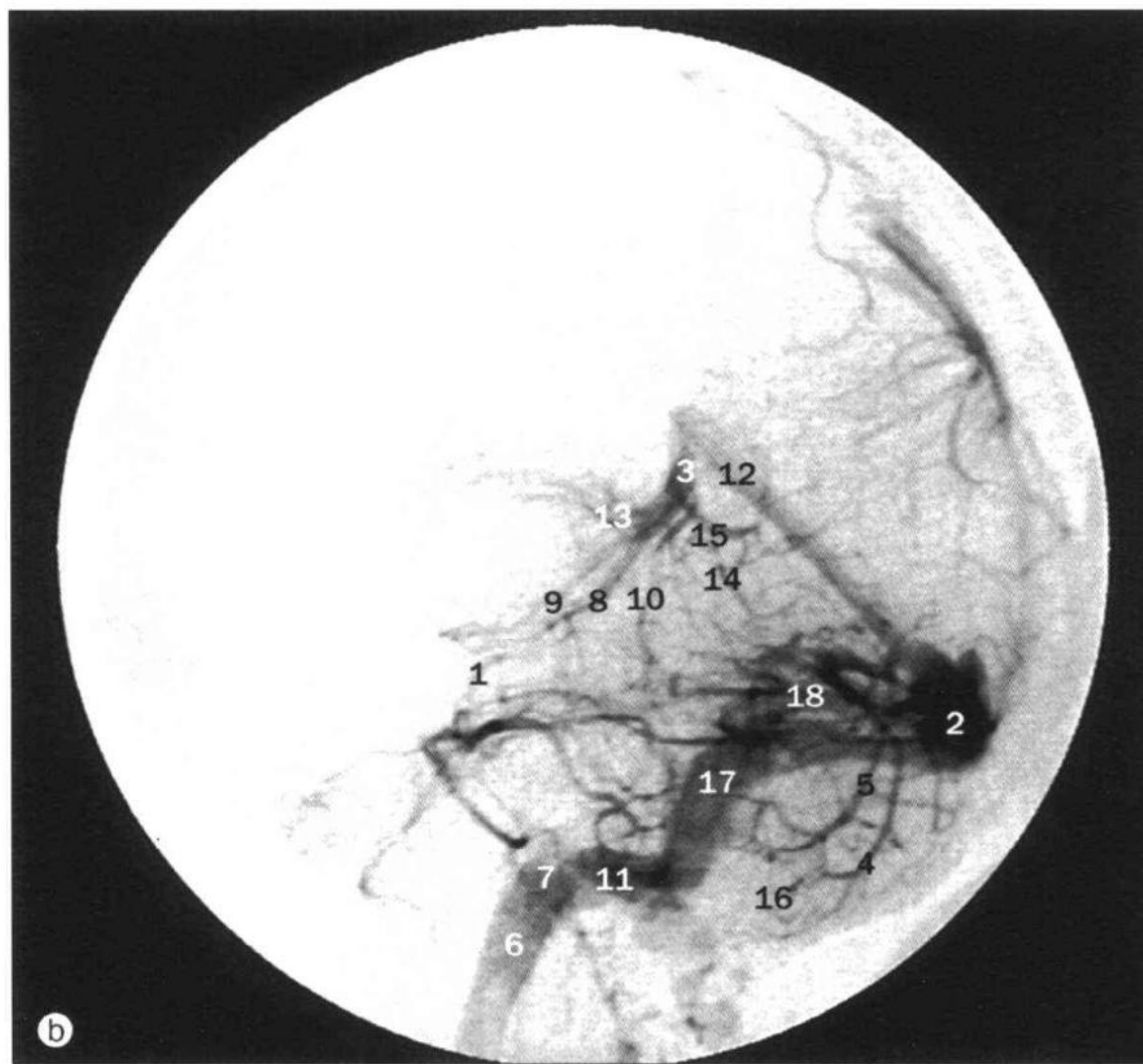
- 1 小脑下前动脉 anterior inferior cerebellar artery
- 2 小脑下后动脉延髓前支 anterior medullary segment of posterior inferior cerebellar artery
- 3 基底动脉 basilar artery
- 4 距状沟动脉 calcarine artery
- 5 小脑下后动脉半球支 hemispheric branches of posterior inferior cerebellar artery

- 6 小脑下后动脉下蚓支 inferior vermian segment of posterior inferior cerebellar artery
- 7 小脑下后动脉延髓侧支 lateral medullary segment of posterior inferior cerebellar artery
- 8 椎动脉脑膜支 meningeal branch of vertebral artery
- 9 小脑下后动脉起始部 origin of posterior inferior cerebellar artery
- 10 顶枕动脉 parieto-occipital artery
- 11 大脑后动脉 posterior cerebral artery
- 12 大脑后动脉脉络丛后支 posterior choroidal branches of posterior cerebral artery
- 13 小脑下后动脉延髓后支 posterior medullary segment of posterior inferior cerebellar artery
- 14 颞后动脉 posterior temporal artery
- 15 小脑下后动脉扁桃体后支 retrotonsillar segment of posterior inferior cerebellar artery
- 16 大脑后动脉分支 branches of posterior cerebral artery
- 17 小脑上动脉 superior cerebellar artery
- 18 小脑下后动脉扁桃体上支 supratonsillar segment of posterior inferior cerebellar artery
- 19 大脑后动脉丘脑穿支 thalamoperforate branches of posterior cerebral artery
- 20 椎动脉 vertebral artery
- 21 寰椎横突孔处的椎动脉 vertebral artery exiting transverse foramen of atlas (first cervical vertebra)



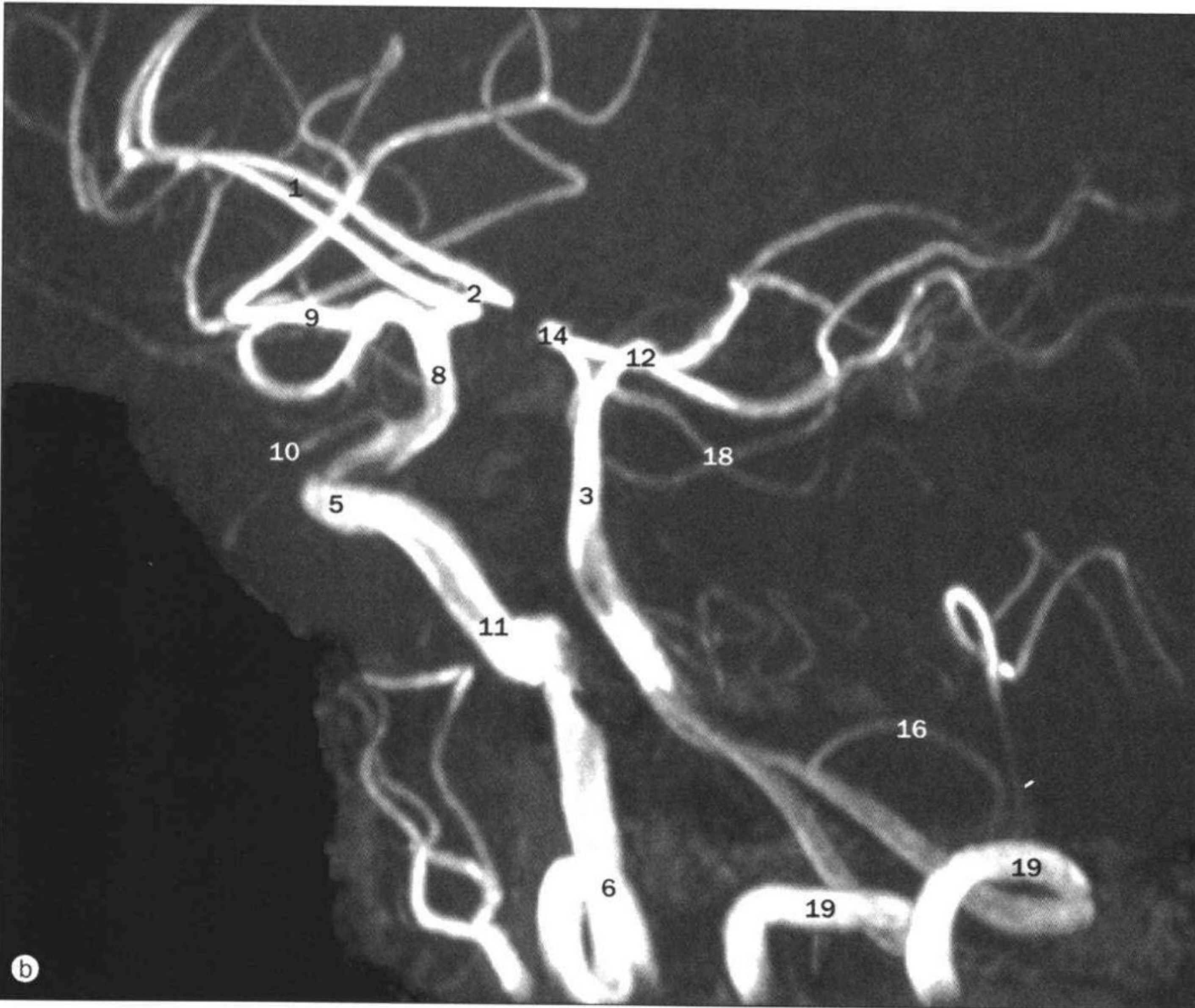
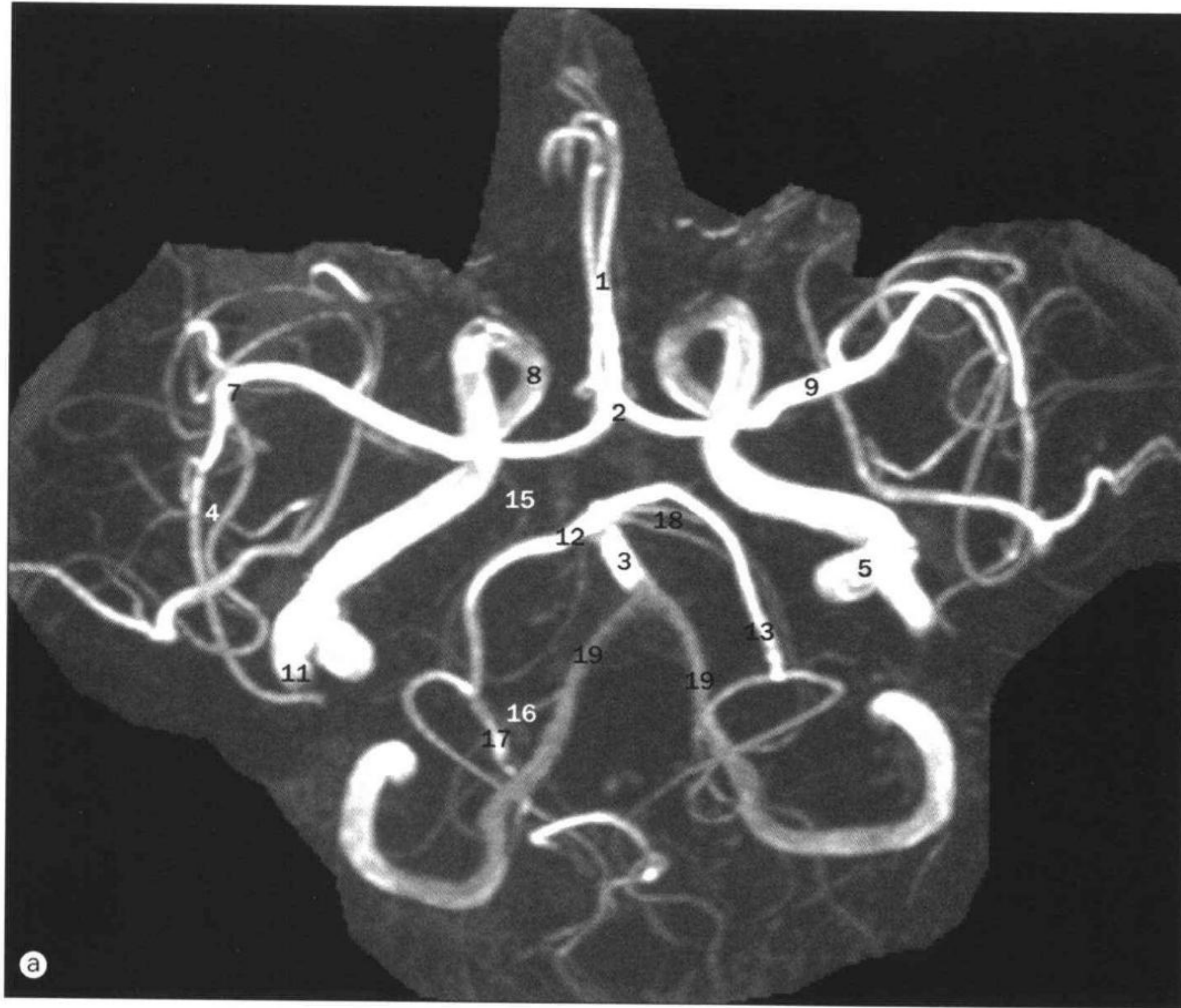
a. 椎动脉, 数字减影血管造影, 静脉相, 前后位。

- 1 脑桥中脑前静脉 anterior pontomesencephalic vein
- 2 半球下静脉 inferior hemispheric vein
- 3 蚓下静脉 inferior vermian vein
- 4 颈内静脉 internal jugular vein
- 5 颈静脉球 jugular bulb
- 6 左侧横窦 left transverse sinus
- 7 岩部静脉 petrosal vein
- 8 中脑后静脉 posterior mesencephalic vein
- 9 右侧横窦 right transverse sinus
- 10 直窦 straight sinus
- 11 半球上静脉 superior hemispheric vein
- 12 岩上窦 superior petrosal sinus



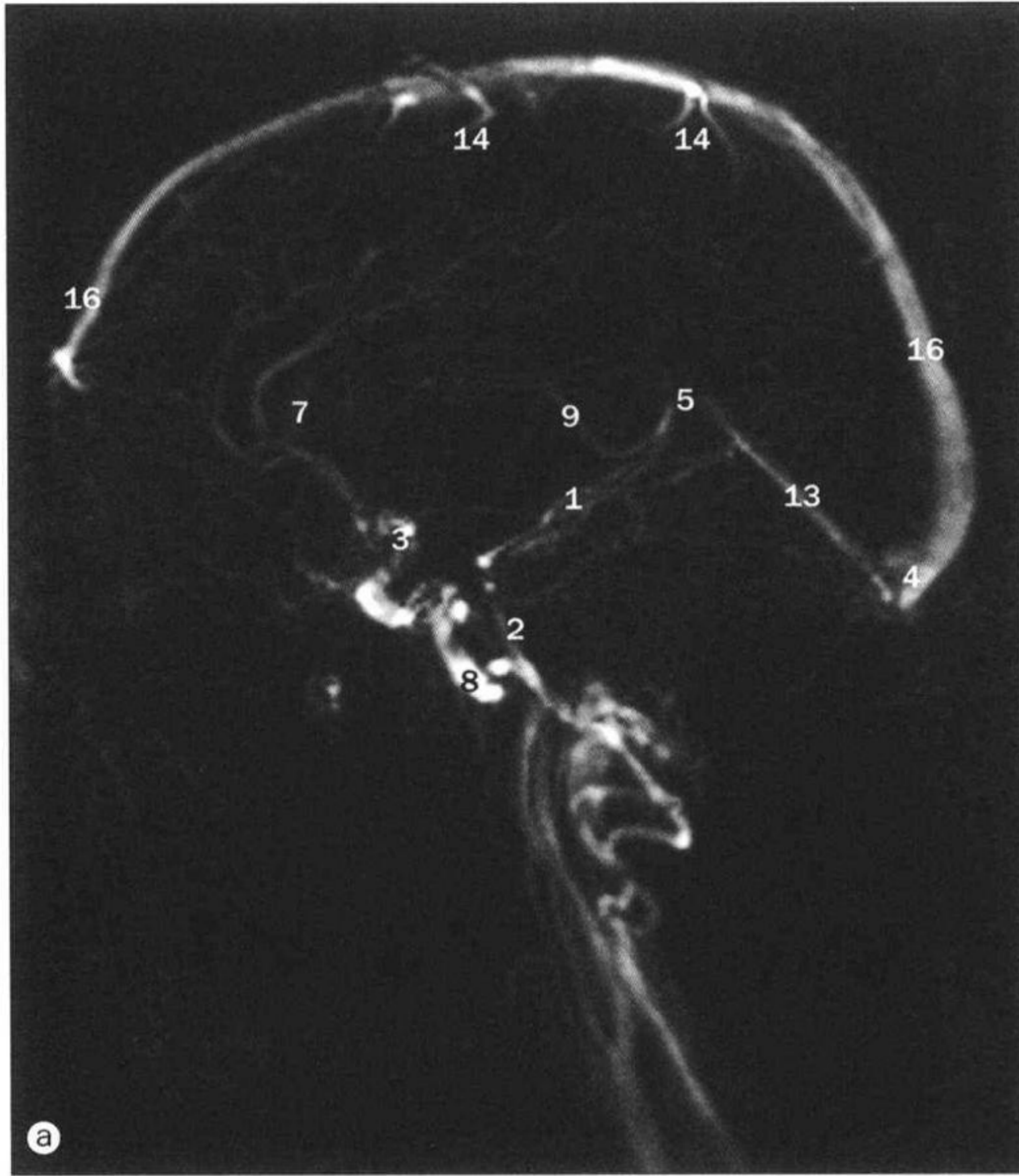
b. 椎动脉, 数字减影血管造影, 静脉相, 侧位。

- 1 脑桥中脑前静脉 anterior pontomesencephalic vein
- 2 窦汇
confluence of venous sinuses (torcular Herophili)
- 3 大脑大静脉 great cerebral vein of Galen
- 4 半球下静脉 inferior hemispheric vein
- 5 蚓下静脉 inferior vermian vein
- 6 颈内静脉 internal jugular vein
- 7 颈静脉球 jugular bulb
- 8 中脑外侧静脉 lateral mesencephalic vein
- 9 中脑后静脉 posterior mesencephalic vein
- 10 小脑中央前静脉 precentral cerebellar vein
- 11 乙状窦 sigmoid sinus
- 12 直窦 straight sinus
- 13 脉络丛上静脉 superior choroidal vein
- 14 半球上静脉 superior hemispheric vein
- 15 蚓上静脉 superior vermian vein
- 16 小脑扁桃体静脉 tonsillar vein
- 17 横窦 transverse sinus
- 18 大水平裂静脉 vein of the great horizontal fissure



- 1 大脑前动脉
anterior cerebral artery
- 2 前交通动脉
anterior communicating artery
- 3 基底动脉 basilar artery
- 4 大脑中动脉岛支 branches (in insula) of middle cerebral artery
- 5 颈内动脉海绵窦段 cavernous portion of internal carotid artery
- 6 颈内动脉颈段 cervical portion of internal carotid artery
- 7 大脑中动脉膝段
genu of middle cerebral artery
- 8 颈内动脉颅内段 (床突上段)
intracranial (supraclinoid) internal carotid artery
- 9 大脑中动脉 middle cerebral artery
- 10 眼动脉 ophthalmic artery
- 11 颈内动脉岩部 petrous portion of internal carotid artery
- 12 大脑后动脉
posterior cerebral artery
- 13 环池内的大脑后动脉 posterior cerebral artery in ambient cistern
- 14 脚间池内的大脑后动脉 posterior cerebral artery in interpeduncular cistern
- 15 后交通动脉
posterior communicating artery
- 16 小脑下后动脉
posterior inferior cerebellar artery
- 17 大脑后动脉四叠体部
quadrigeminal portion of posterior cerebral artery
- 18 小脑上动脉
superior cerebellar artery
- 19 椎动脉 vertebral artery

Willis 环, 脑动脉磁共振血管造影。a. 轴位; b. 侧位。

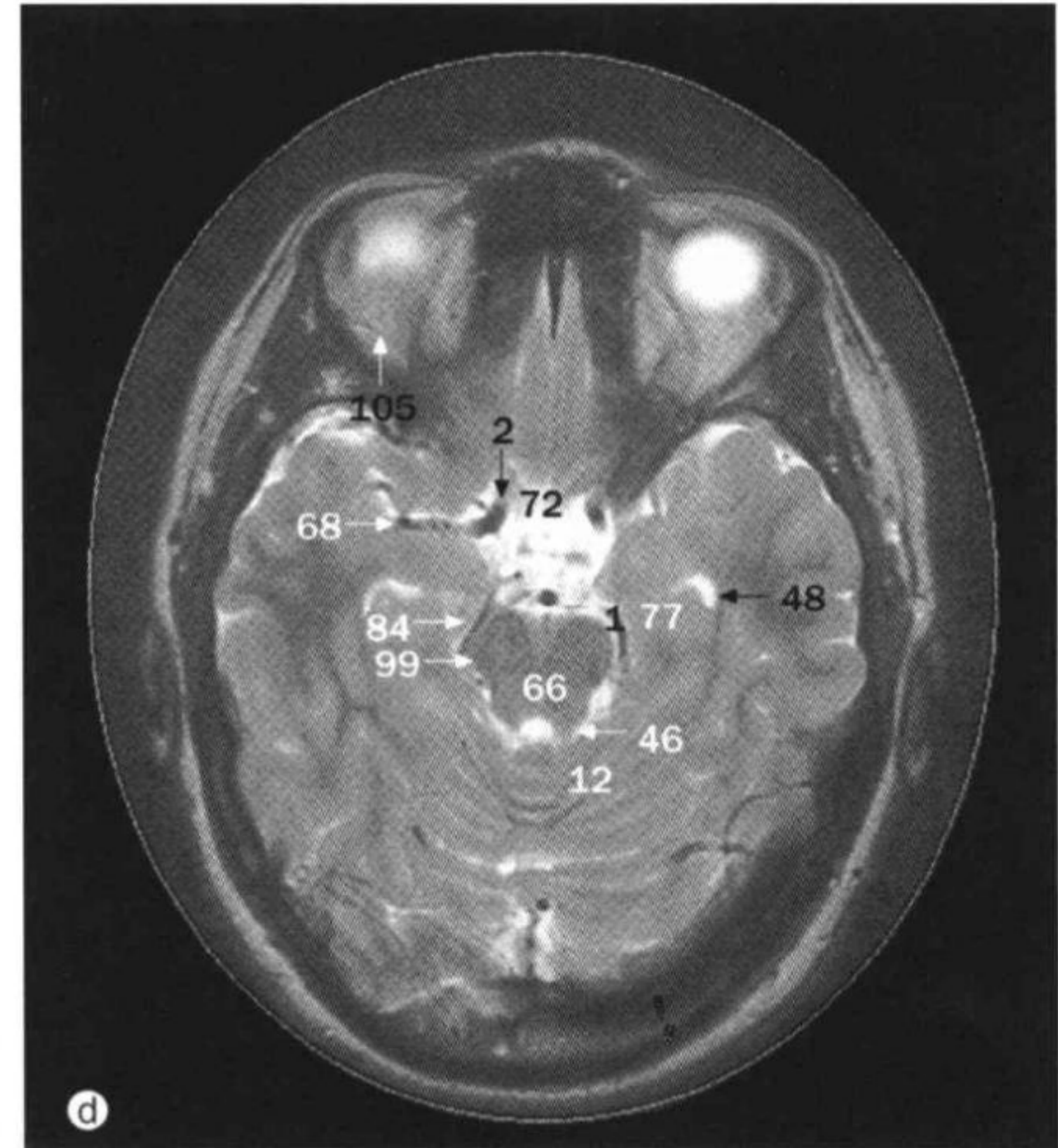
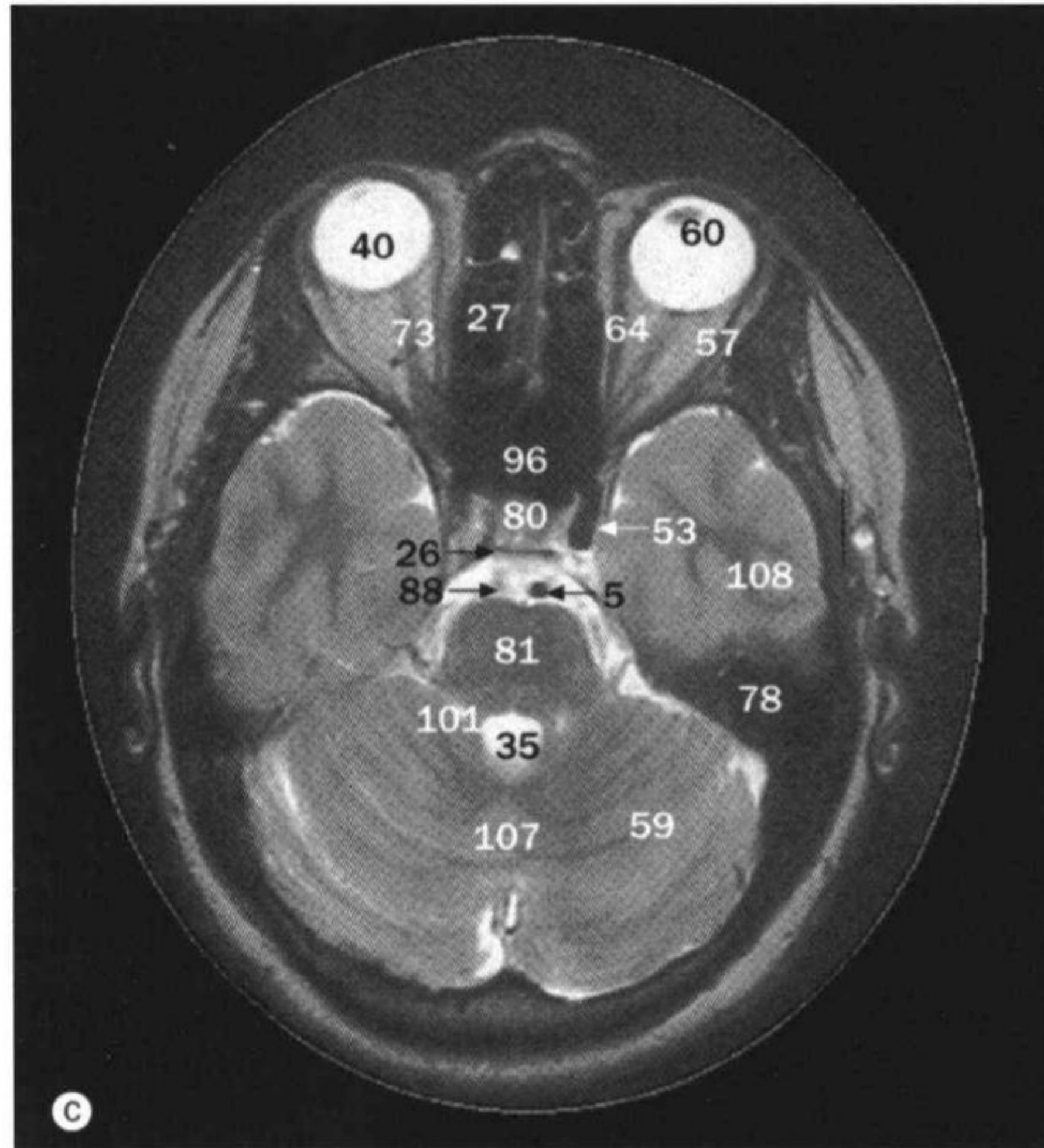
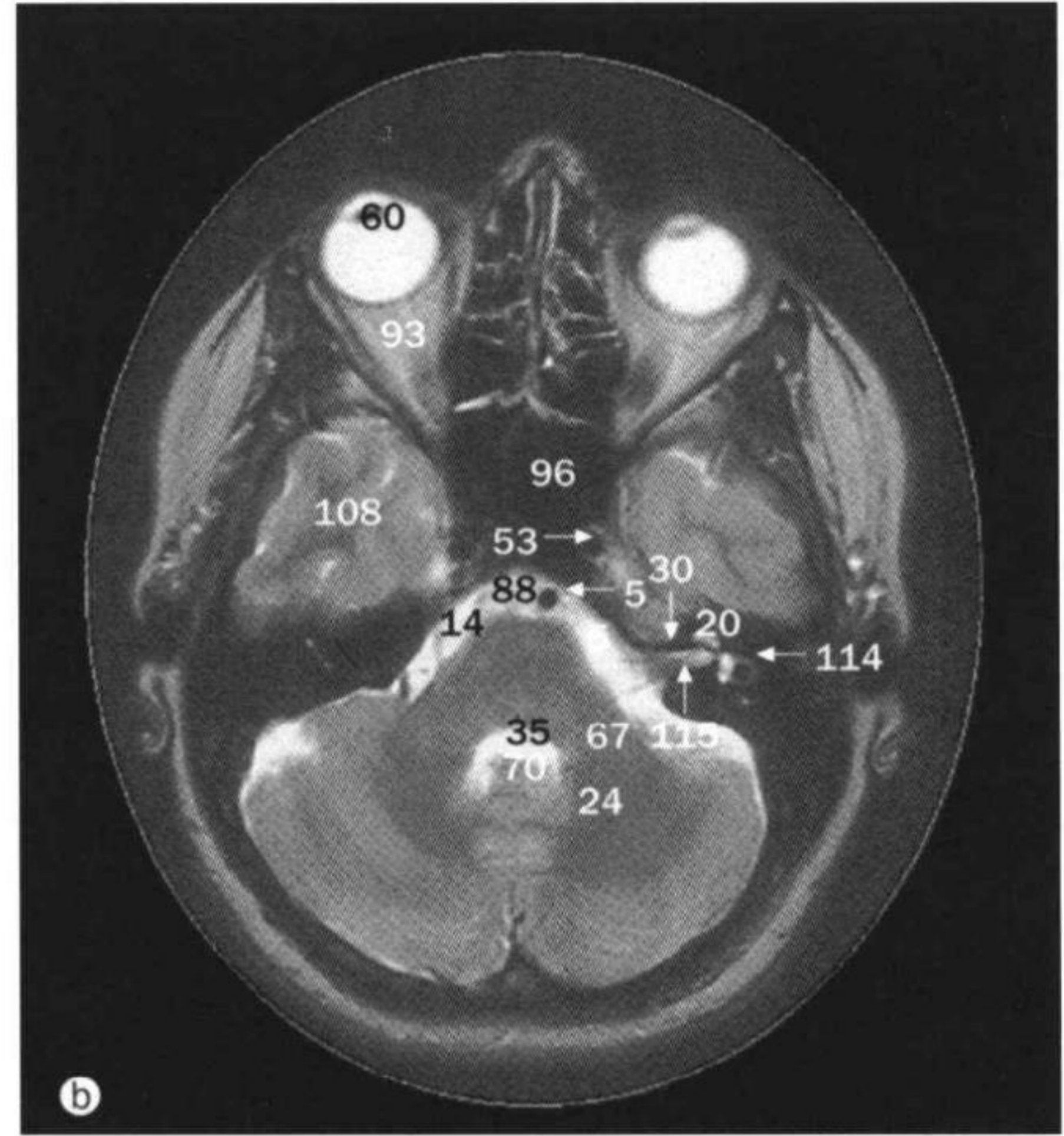
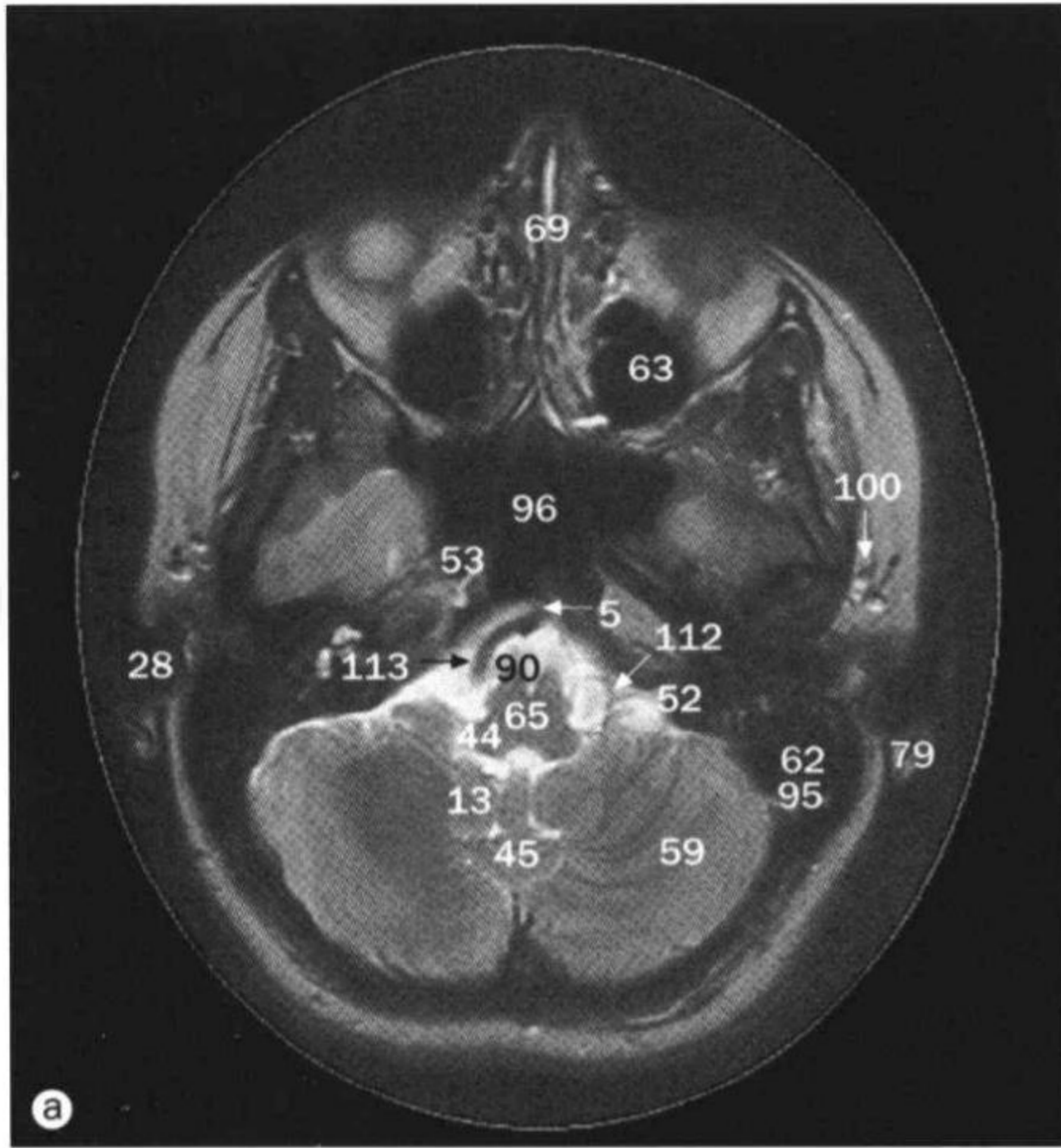


Willis 环，脑静脉磁共振血管造影。a. 侧位；b. 轴位。



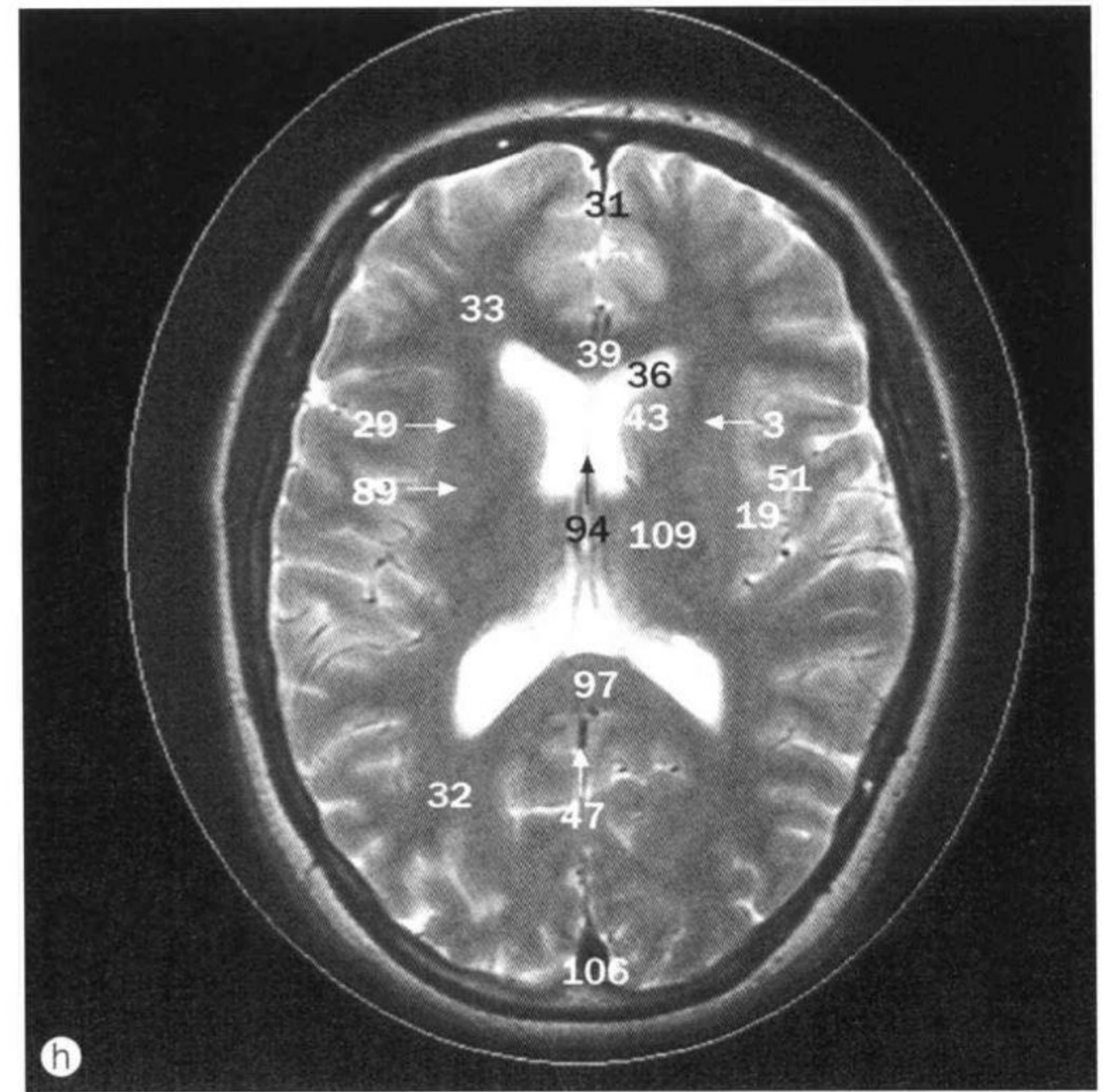
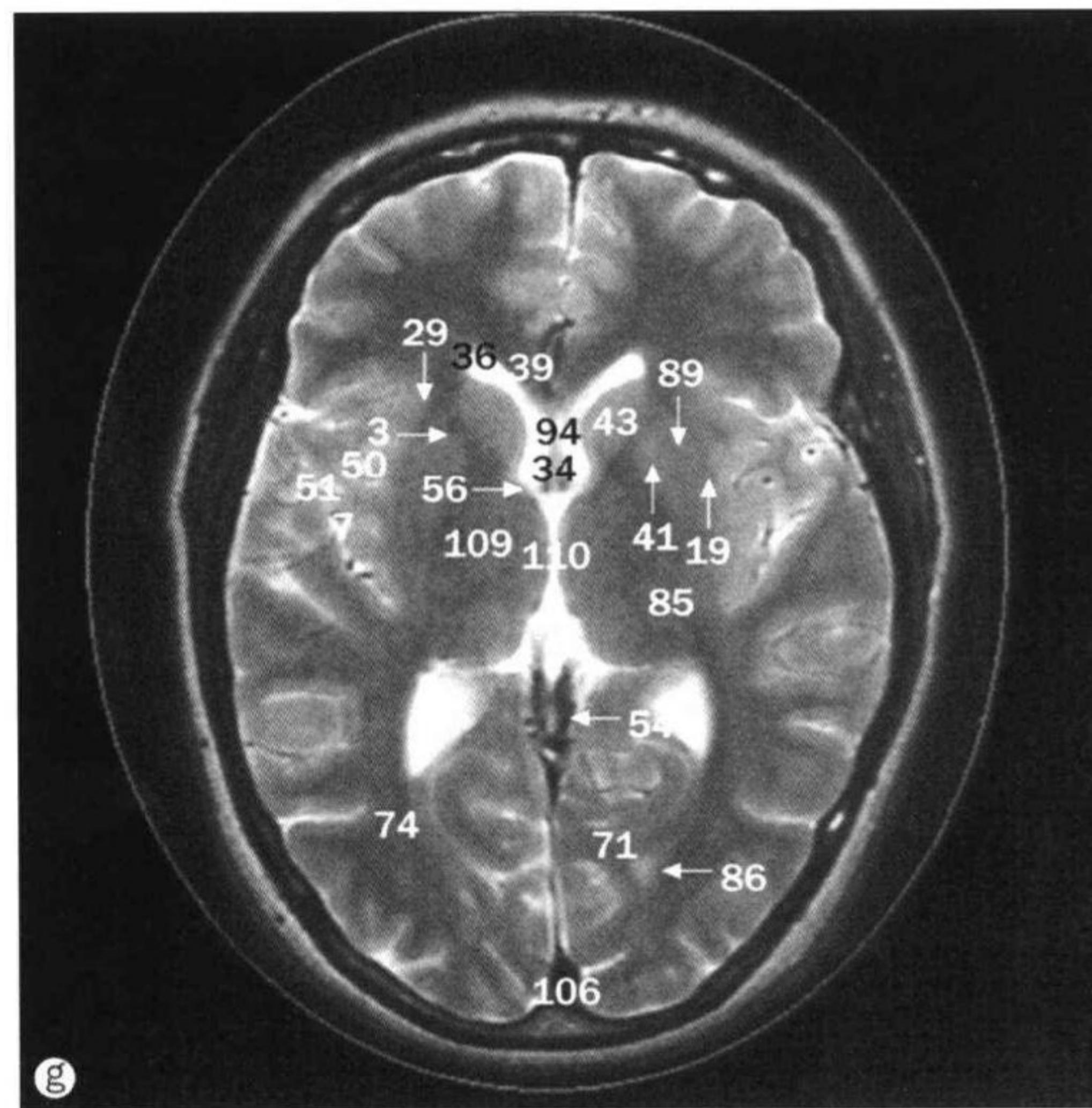
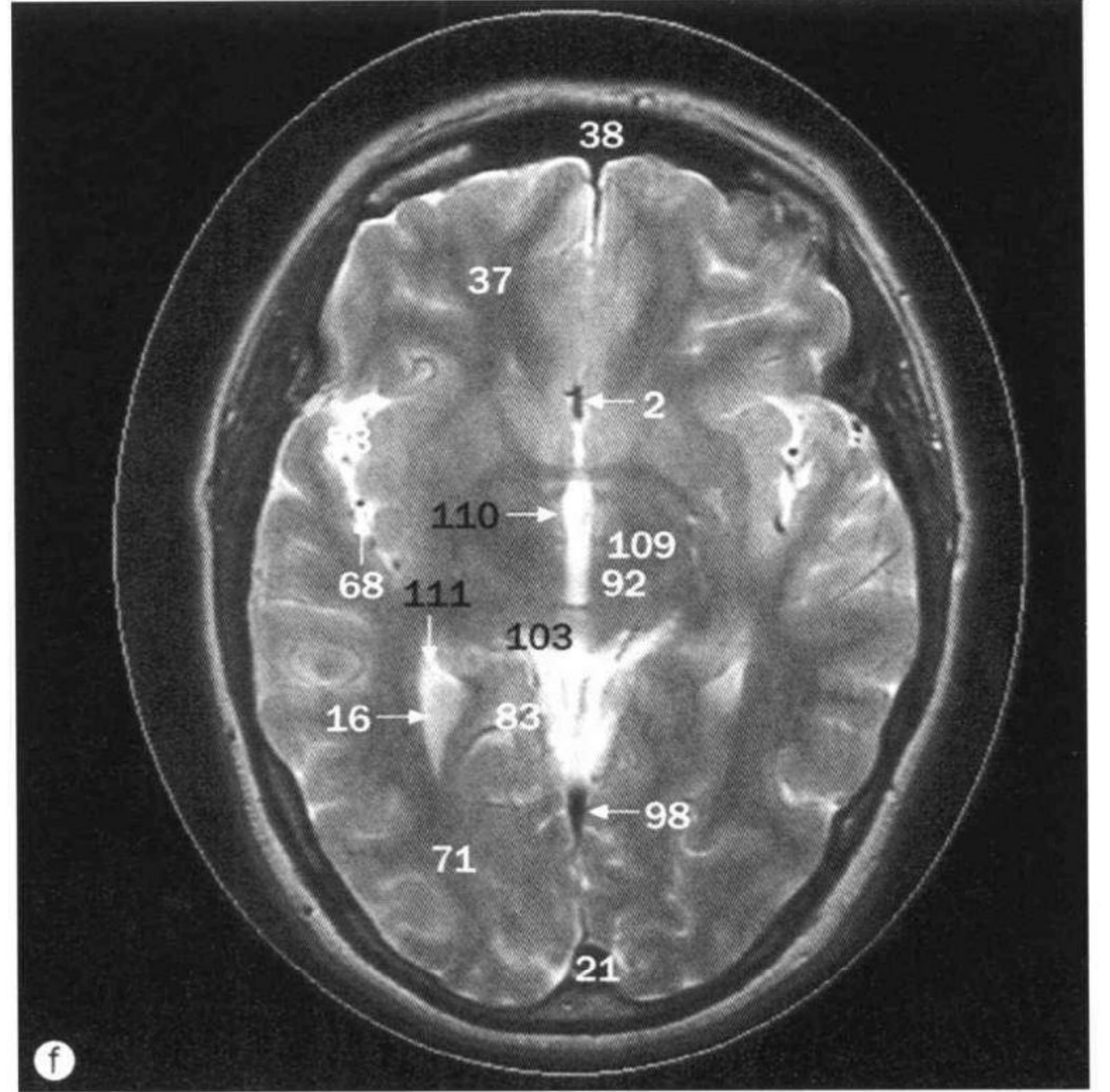
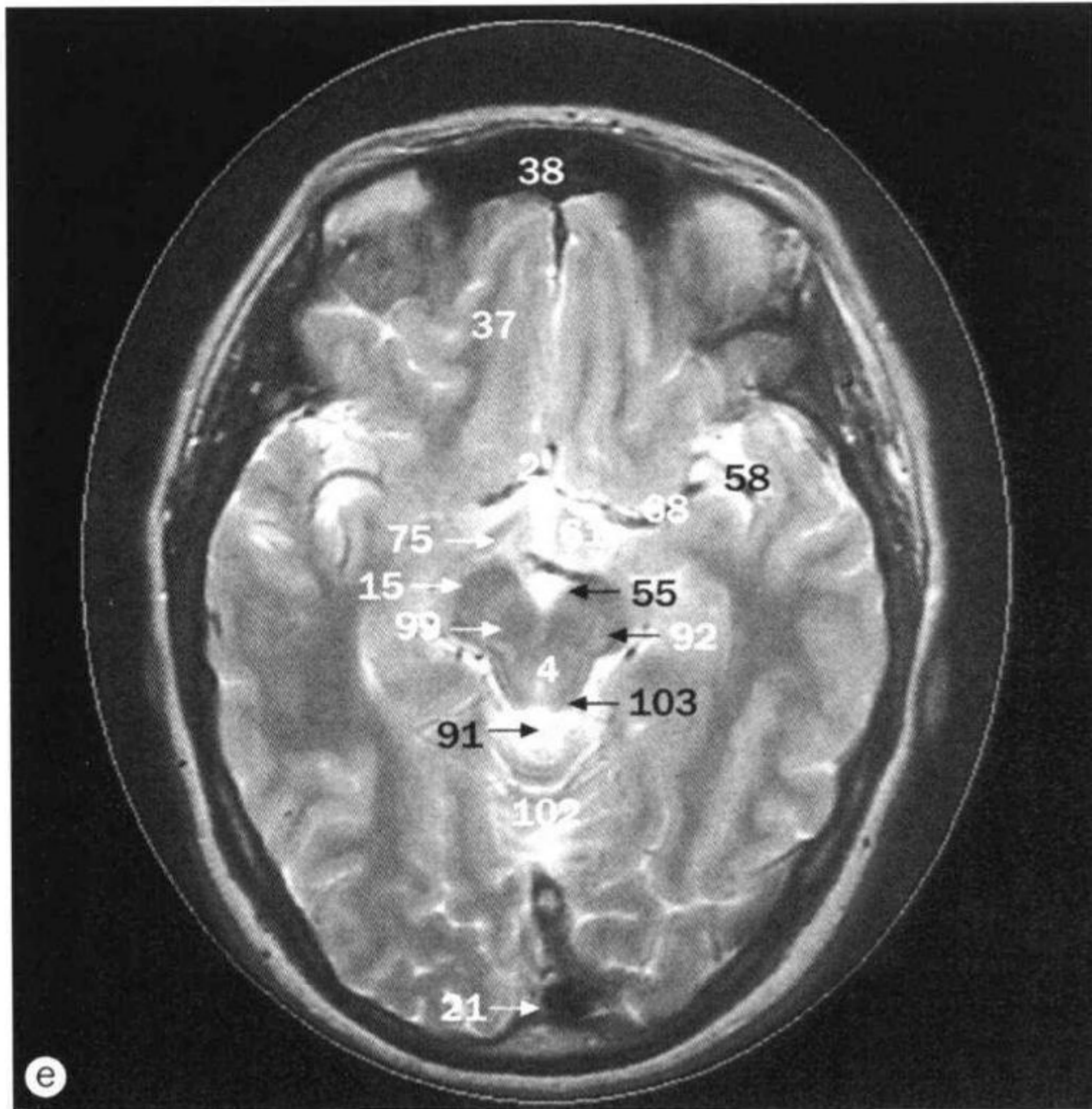
- 1 Rosenthal 基底静脉 basal vein of Rosenthal
- 2 基底动脉 basilar artery
- 3 海绵窦 cavernous sinus
- 4 窦汇 confluence of venous sinuses (torcular Herophili)
- 5 大脑大静脉 great cerebral vein of Galen
- 6 岩下窦 inferior petrosal sinus
- 7 下矢状窦 inferior sagittal sinus
- 8 颈内动脉 internal carotid artery

- 9 大脑内静脉 internal cerebral vein
- 10 左侧横窦 left transverse sinus
- 11 右侧横窦 right transverse sinus
- 12 蝶顶窦 sphenoparietal sinus
- 13 直窦 straight sinus
- 14 大脑浅静脉 superficial cerebral veins
- 15 岩上窦 superior petrosal sinus
- 16 上矢状窦 superior sagittal sinus

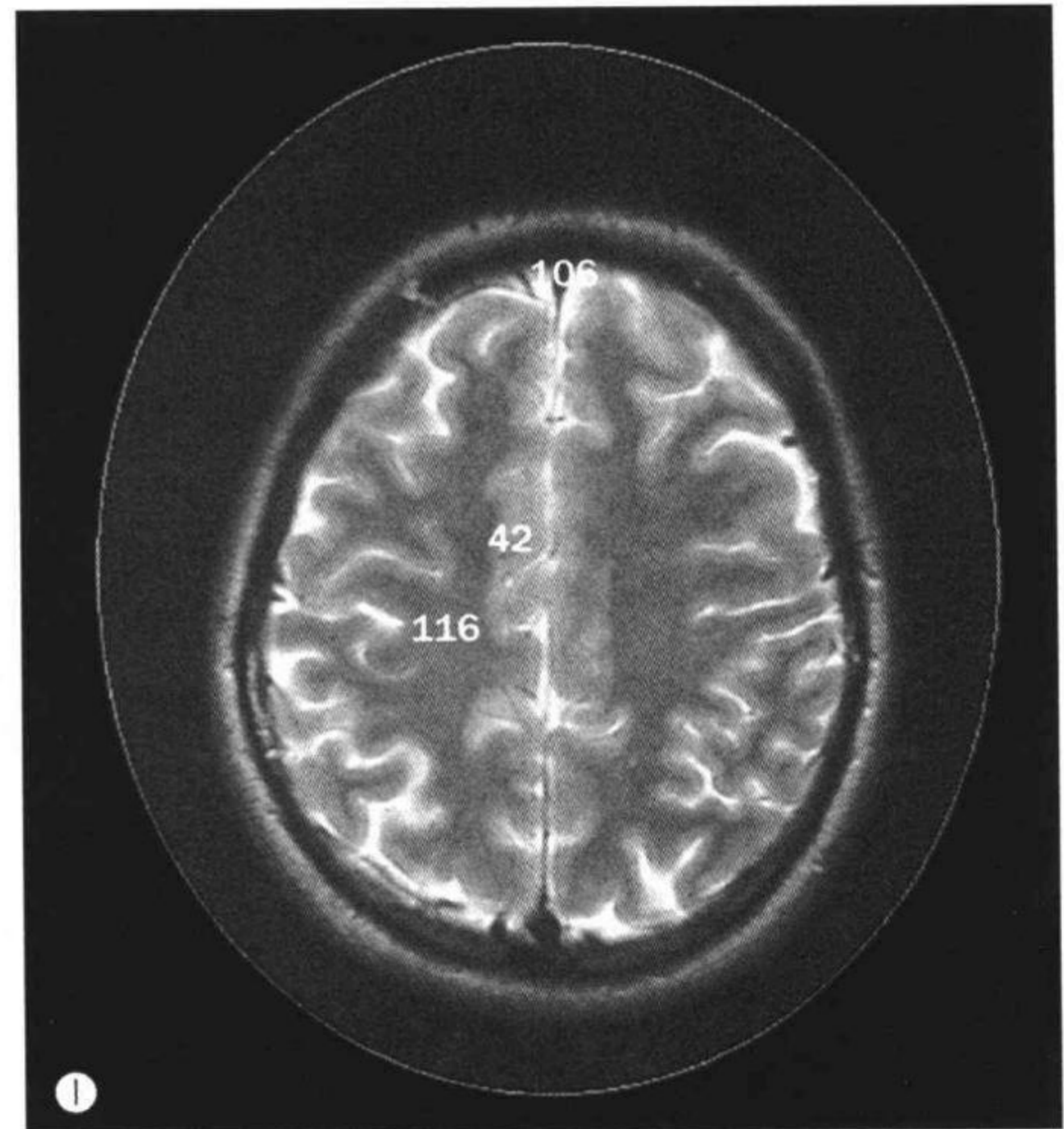
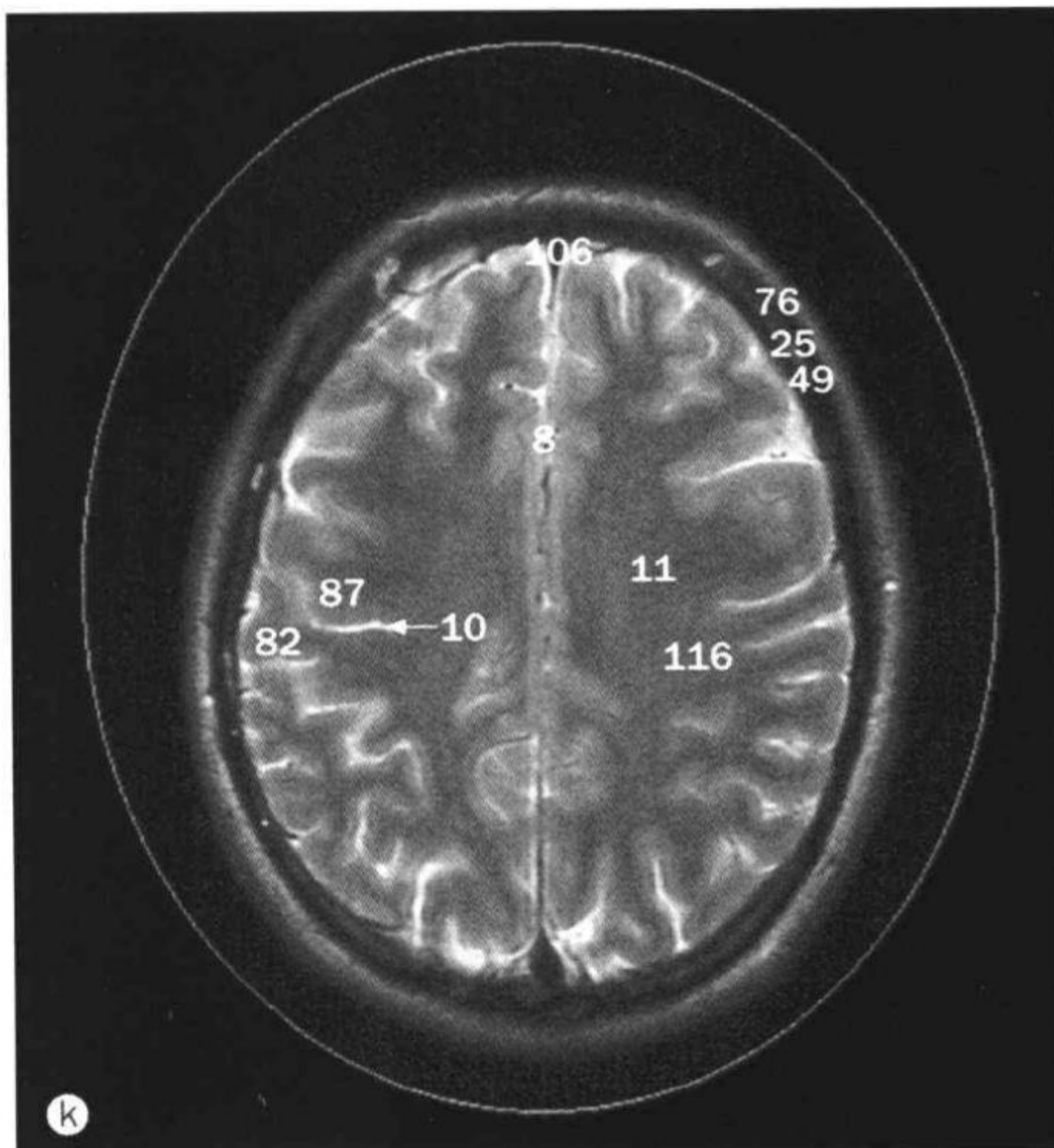
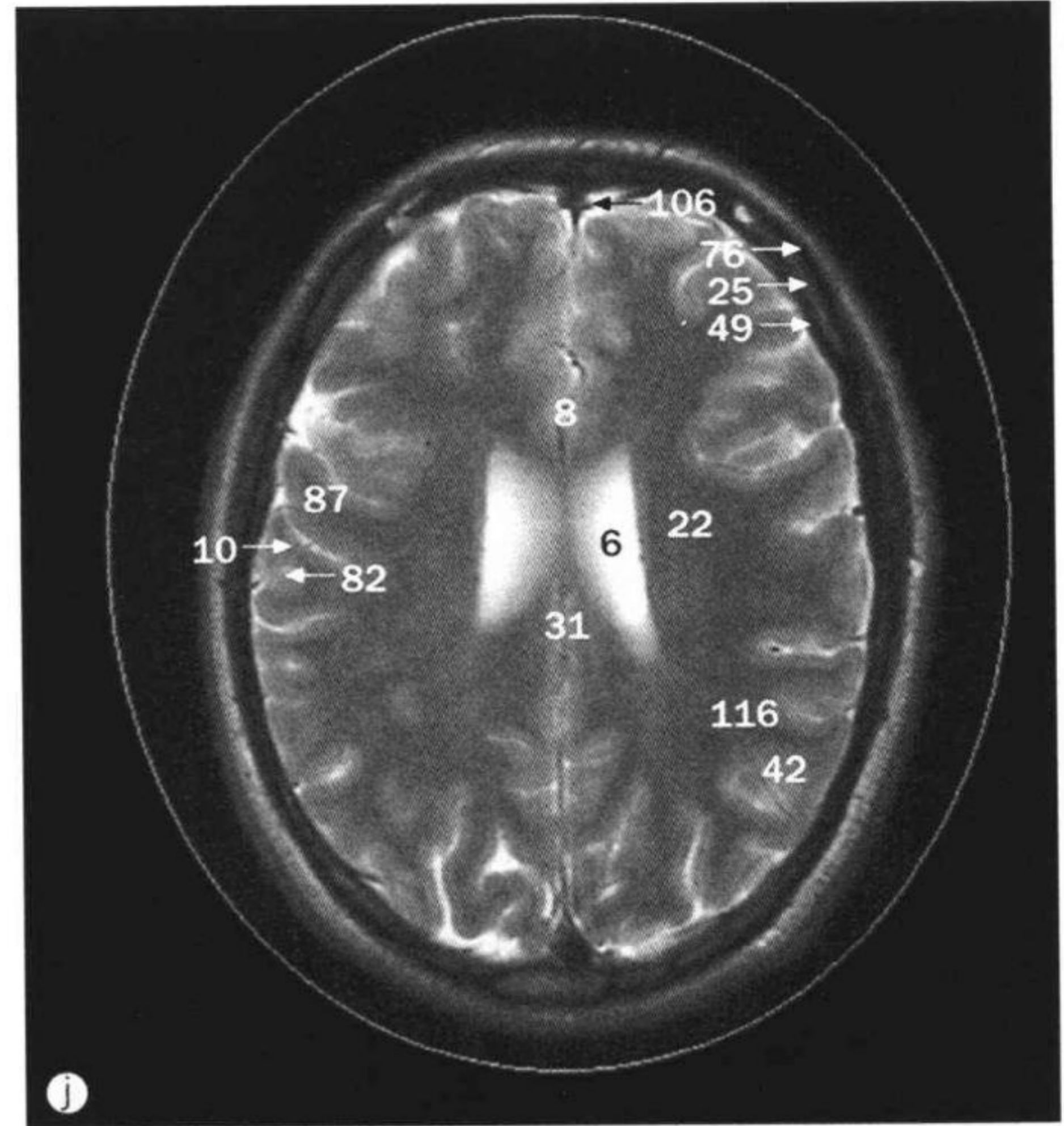
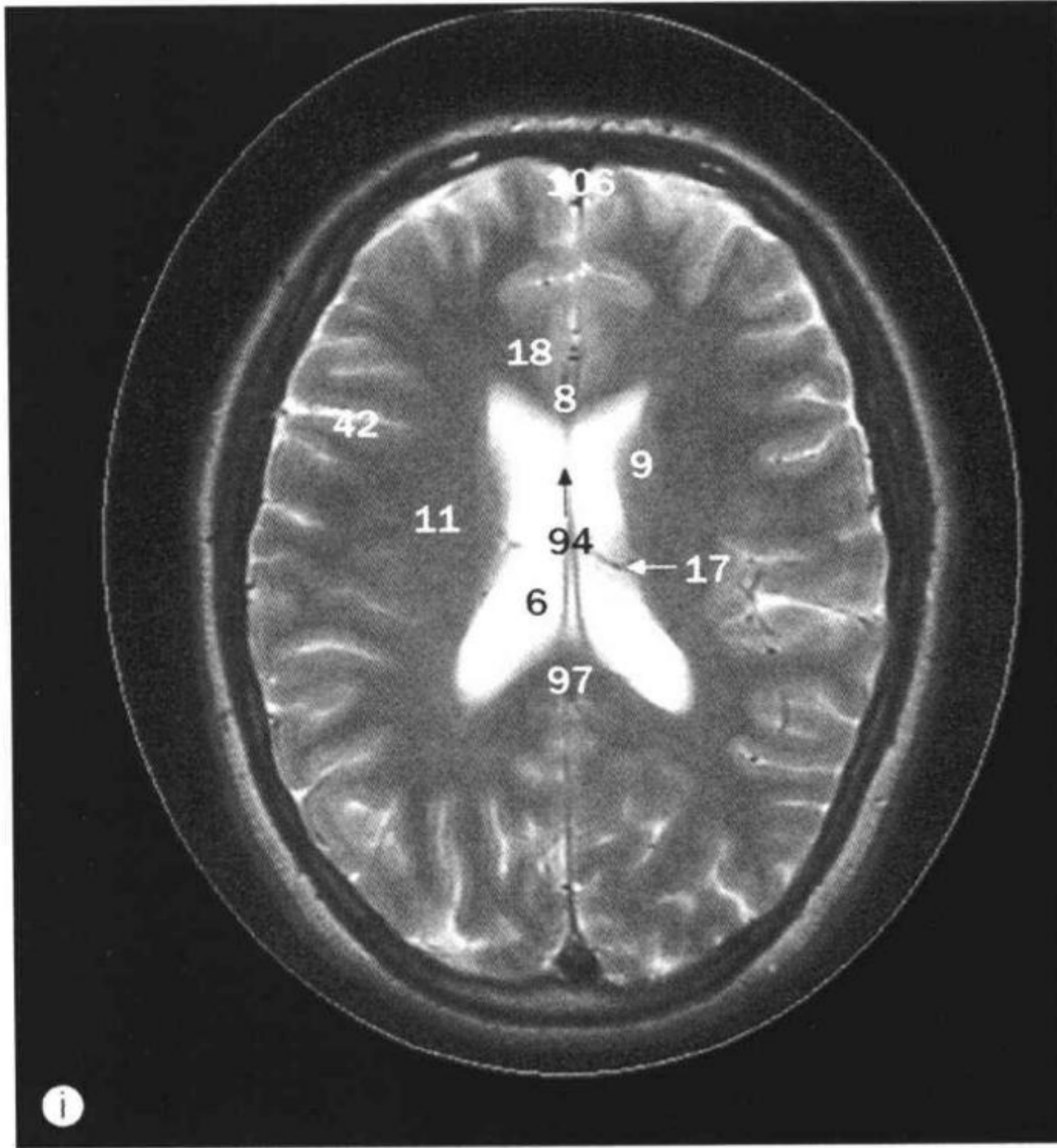


a~p. 脑, 轴位 MRI。

- | | | |
|---|---|---|
| 1 环池 ambient cistern | 9 尾状核 caudate nucleus | 20 耳蜗 cochlea |
| 2 大脑前动脉 anterior cerebral artery | 10 中央沟 central sulcus of Rolando | 21 窦汇 confluence of venous sinuses (torcular Herophili) |
| 3 内囊前肢 anterior limb of internal capsule | 11 半卵圆中心 centrum semi ovale | 22 辐射冠 corona radiata |
| 4 中脑导水管 aqueduct of Sylvius | 12 小脑叶片 cerebellar folia | 23 皮质静脉 cortical vein |
| 5 基底动脉 basilar artery | 13 小脑扁桃体 cerebellar tonsil | 24 齿状核 dentate nucleus |
| 6 侧脑室体部 body of lateral ventricle | 14 脑桥小脑角池 cerebellopontine cistern | 25 板障 diploë |
| 7 外侧沟内的大脑中动脉 branch of middle cerebral artery in lateral sulcus (Sylvian fissure) | 15 大脑脚 cerebral peduncle | 26 鞍背 dorsum sellae |
| 8 胼胝体缘动脉 callosomarginal artery | 16 侧脑室三角区脉络丛 choroid plexus in trigone of lateral ventricle | 27 筛小房 ethmoidal air cells |
| | 17 脉络膜血管 choroid vessels | 28 外耳门 external acoustic meatus |
| | 18 扣带回 cingulate gyrus | 29 外囊 external capsule |
| | 19 屏状核 claustrum | 30 内耳道内的面神经 facial nerve in internal acoustic canal |

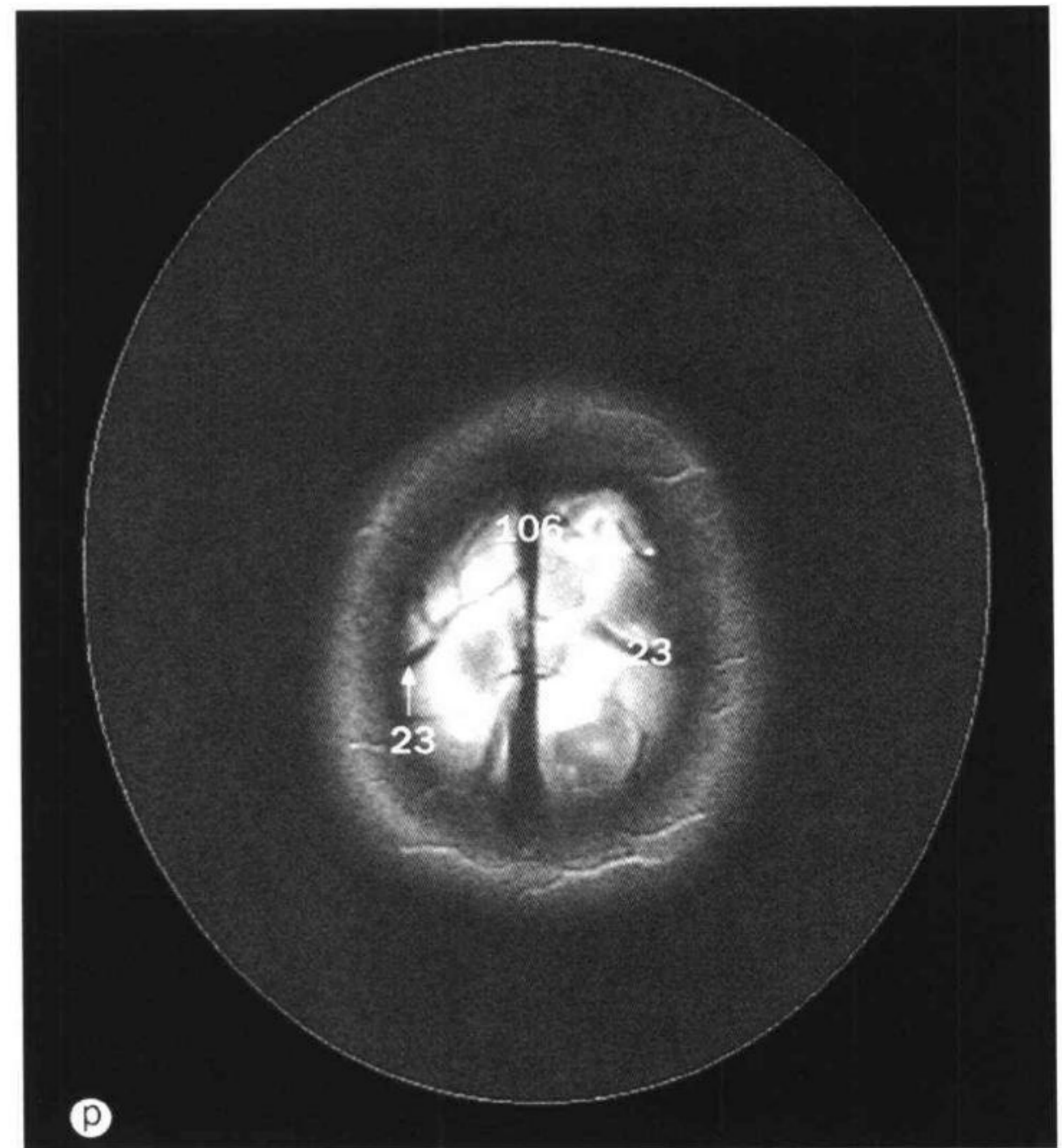
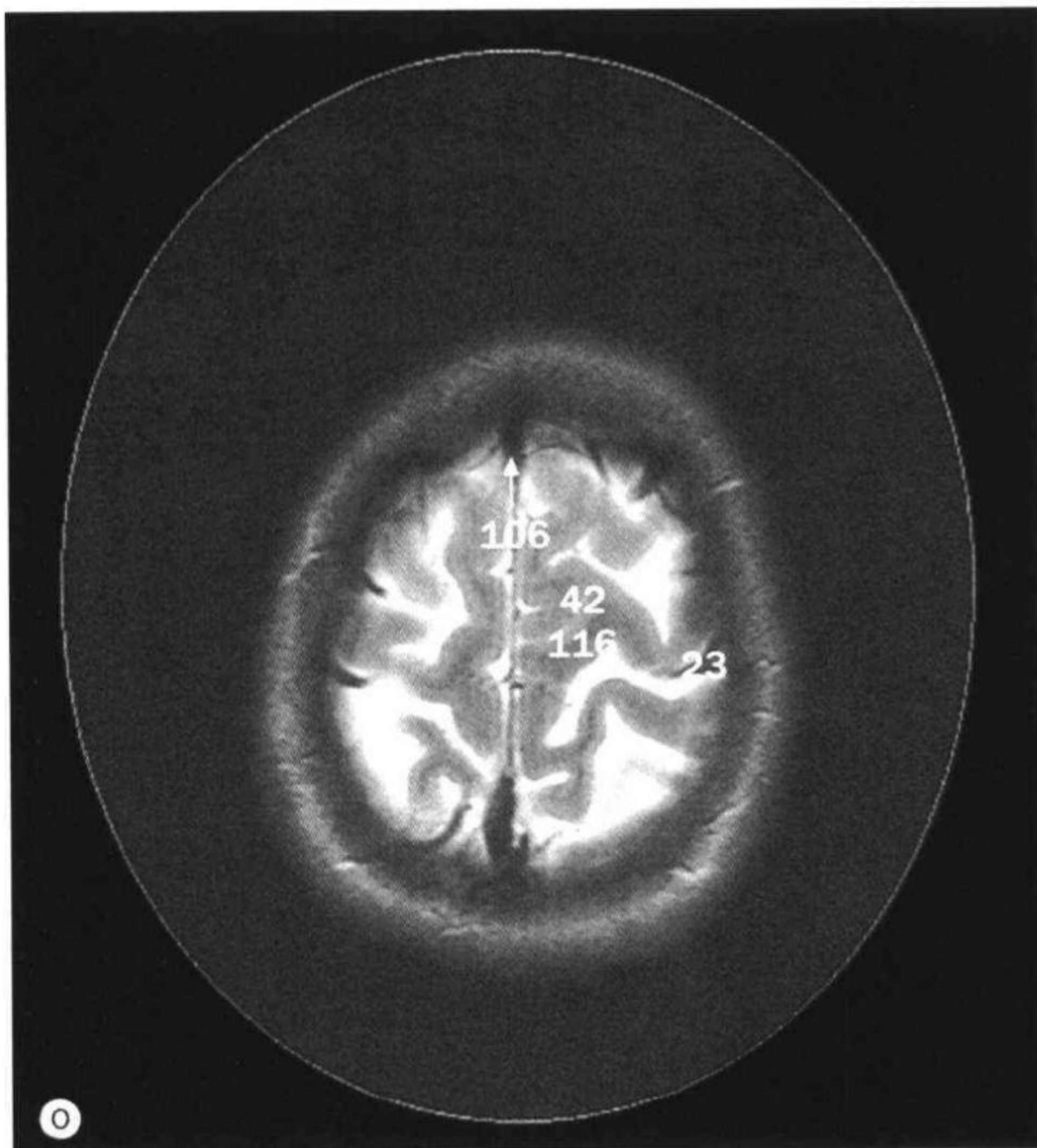
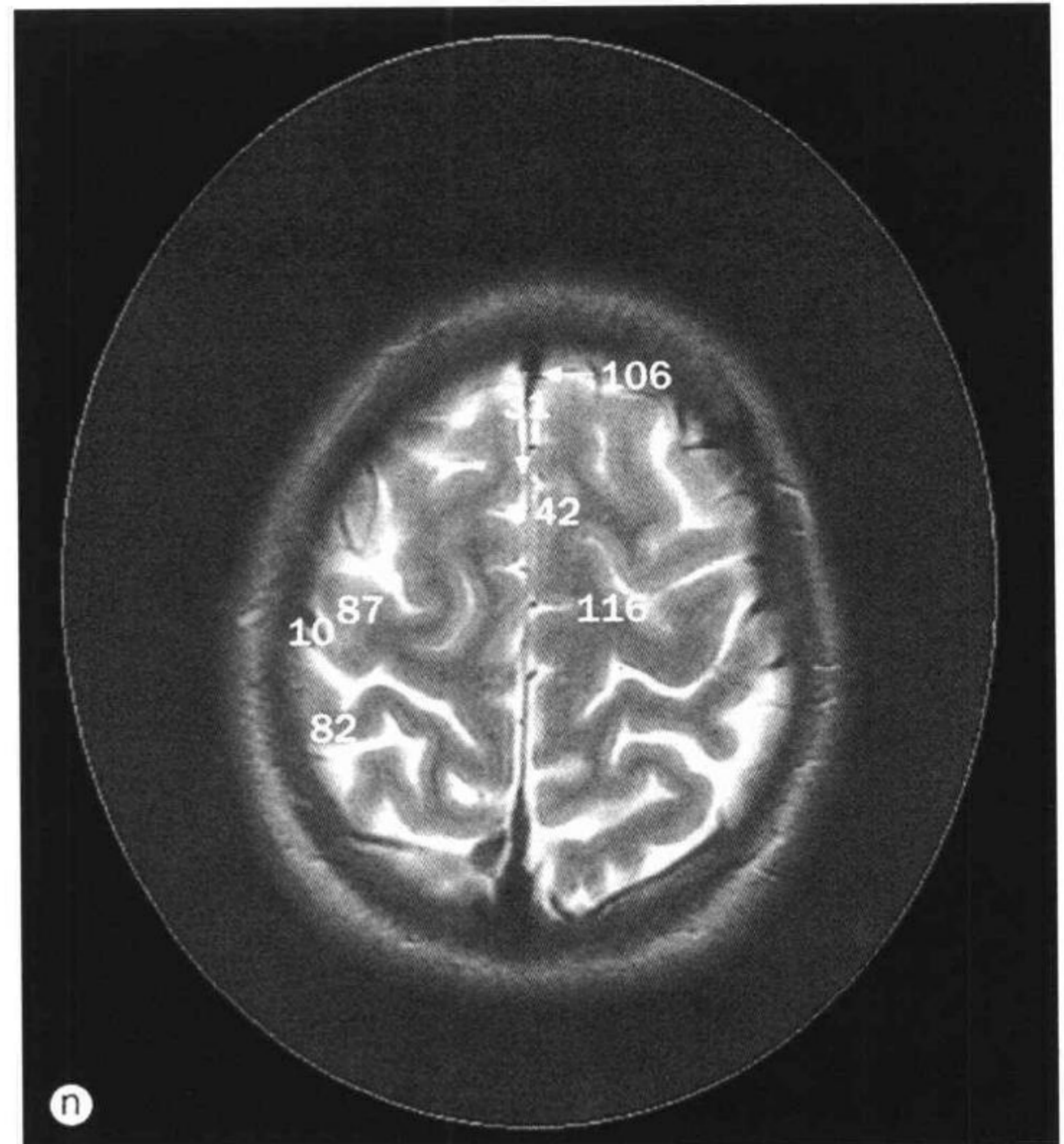
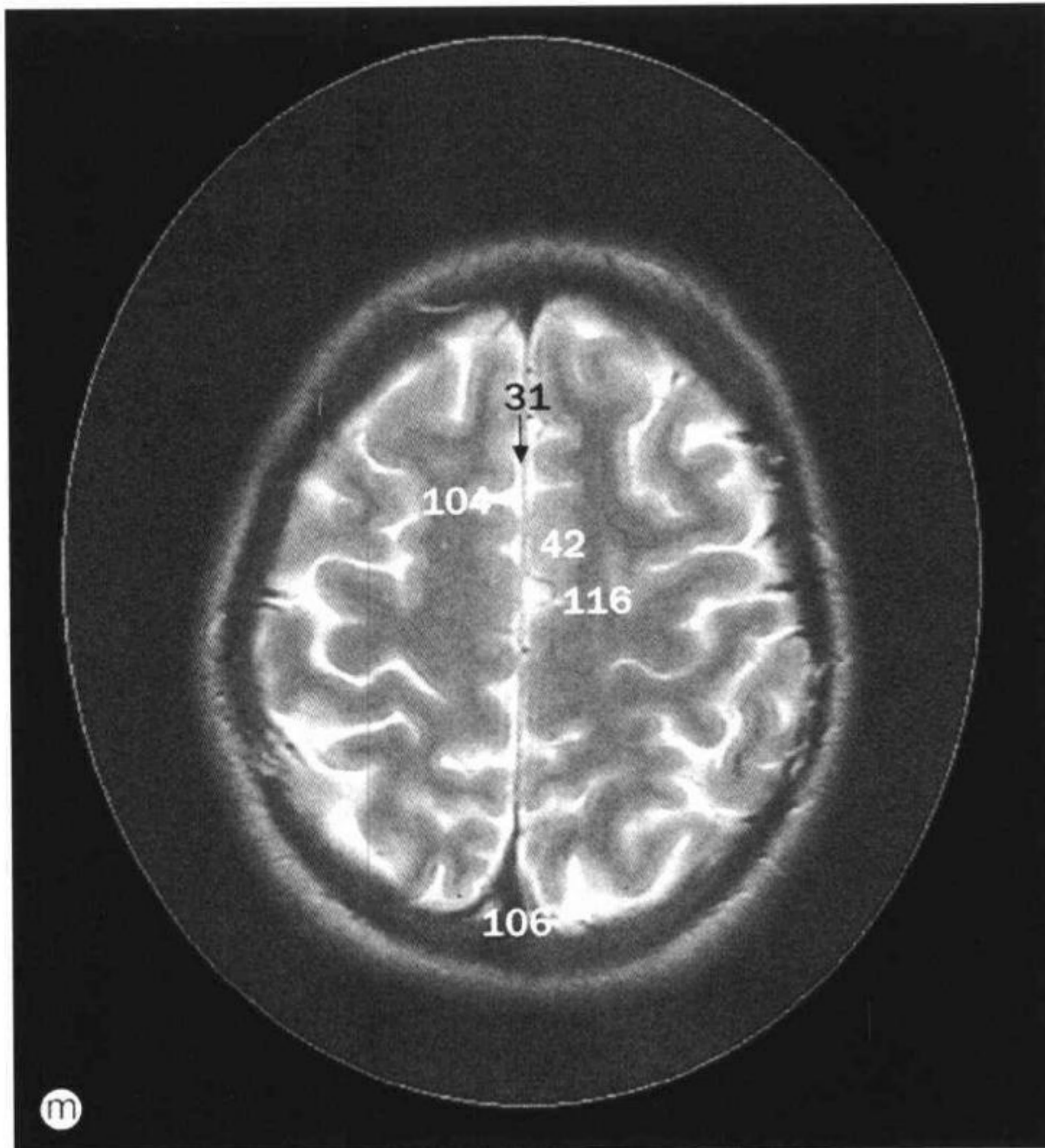


- | | | |
|-----------------------------------|--------------------------------------|-----------------------------------|
| 31 大脑镰 falx cerebri | 42 灰质 grey matter | 52 内耳门 internal acoustic meatus |
| 32 胼胝体辐射线枕部 forceps major | 43 尾状核头 head of caudate nucleus | 53 颈内动脉 internal carotid artery |
| 33 胼胝体辐射线额部 forceps minor | 44 小脑下脚 inferior cerebellar peduncle | 54 大脑内静脉 internal cerebral vein |
| 34 穹隆 fornix | 45 小脑下蚓 inferior cerebellar vermis | 55 脚间池 interpeduncular cistern |
| 35 第4脑室 fourth ventricle | 46 下丘 inferior colliculus | 56 室间孔 |
| 36 侧脑室额角 | 47 下矢状窦 inferior sagittal sinus | interventricular foramen of Monro |
| frontal horn of lateral ventricle | 48 侧脑室下(颞)角 inferior (temporal) | 57 外直肌 lateral rectus muscle |
| 37 额叶 frontal lobe | horn of lateral ventricle | 58 外侧沟 |
| 38 额窦 frontal sinus | 49 内板、硬脑膜、脑脊液 inner table, | lateral sulcus (Sylvian fissure) |
| 39 胼胝体膝 genu of corpus callosum | dura and cerebrospinal fluid | 59 左大脑半球 |
| 40 眼球 globe | 50 脑岛 insula | left cerebellar hemisphere |
| 41 苍白球 globus pallidus | 51 岛回 insular gyri | 60 晶状体 lens |

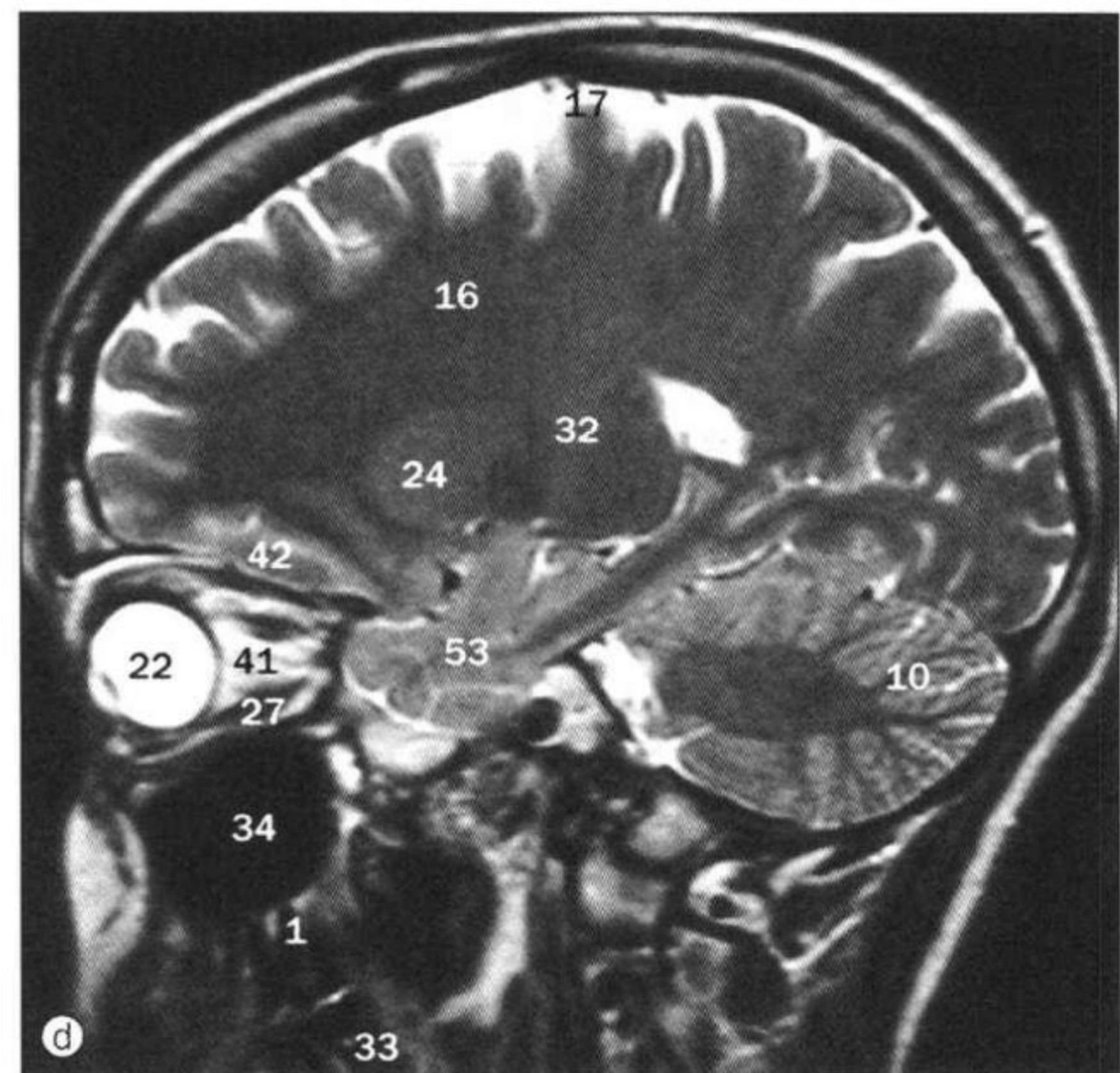
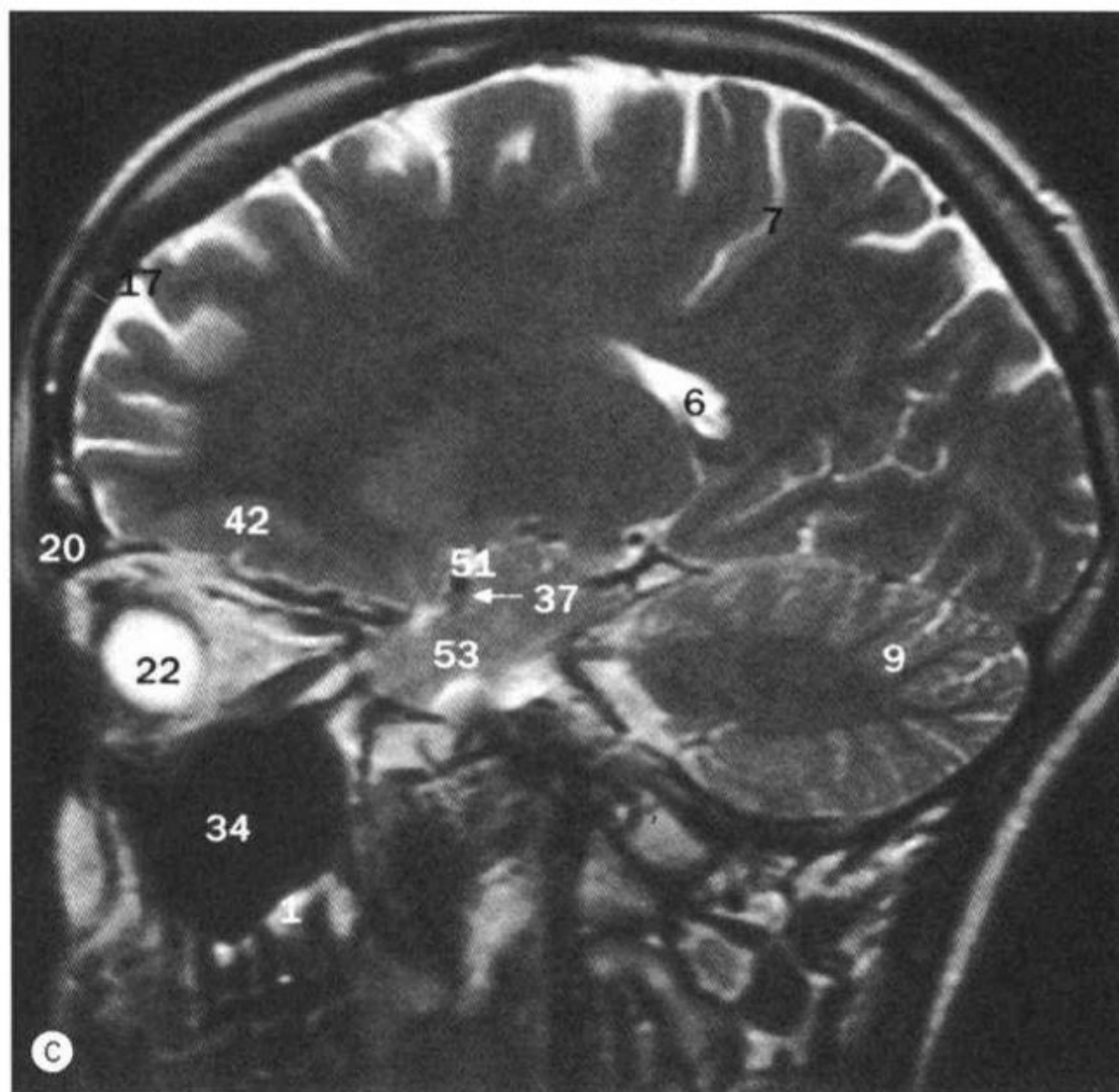
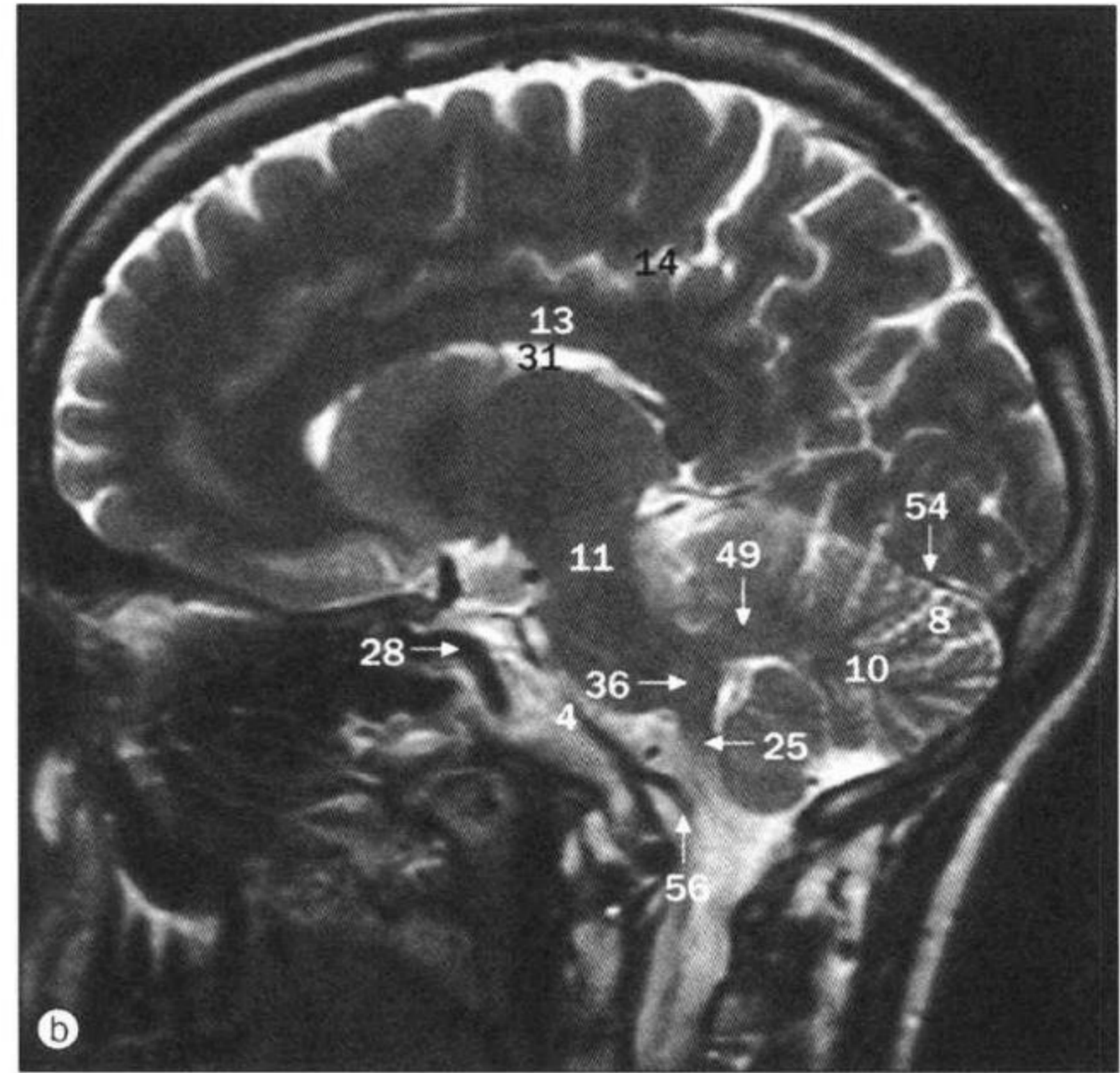
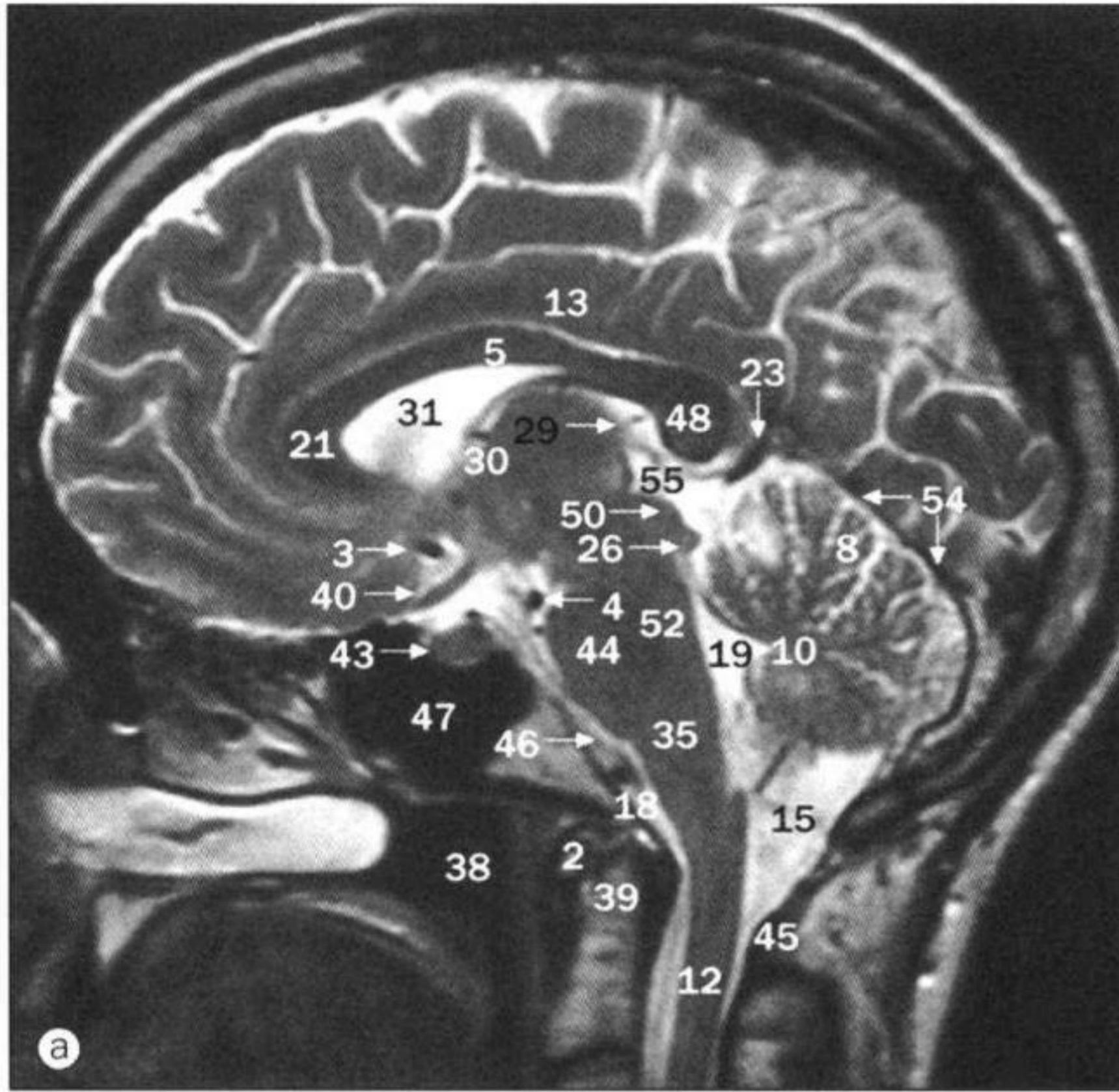


脑, 轴位 MRI (续)。

- | | | |
|--|---|---|
| 61 鞍上池内的乳头体 mammillary bodies in suprasellar cistern | 73 视神经 optic nerve | 85 内囊后肢 posterior limb of internal capsule |
| 62 乳突小房 mastoid air cells | 74 视辐射 optic radiations | 86 侧脑室后(枕)角 posterior (occipital) horn of lateral ventricle |
| 63 上颌窦 maxillary sinus (antrum) | 75 视束 optic tract | 87 中央前回 precentral gyrus |
| 64 内直肌 medial rectus muscle | 76 外板 outer table | 88 桥前池 prepontine cistern |
| 65 延髓 medulla oblongata | 77 海马旁回 parahippocampal gyrus | 89 壳 putamen |
| 66 中脑 mesencephalon (midbrain) | 78 颞骨岩部 petrous temporal bone | 90 延髓锥体 pyramid of medulla oblongata |
| 67 小脑中脚 middle cerebellar peduncle | 79 耳廓 pinna of ear | 91 四叠体池 quadrigeminal cistern |
| 68 大脑中动脉 middle cerebral artery | 80 垂体 pituitary gland | 92 红核 red nucleus |
| 69 鼻中隔 nasal septum | 81 脑桥 pons | 93 眶后脂肪 retro-orbital fat |
| 70 小脑小结 nodule of cerebellum | 82 中央后回 postcentral gyrus | 94 透明隔 septum pellucidum |
| 71 枕叶 occipital lobe | 83 大脑后动脉 posterior cerebral artery | 95 乙状窦 sigmoid sinus |
| 72 鞍上池内的视交叉 optic chiasma in suprasellar cistern | 84 环池内的大脑后动脉 posterior cerebral artery in ambient cistern | |

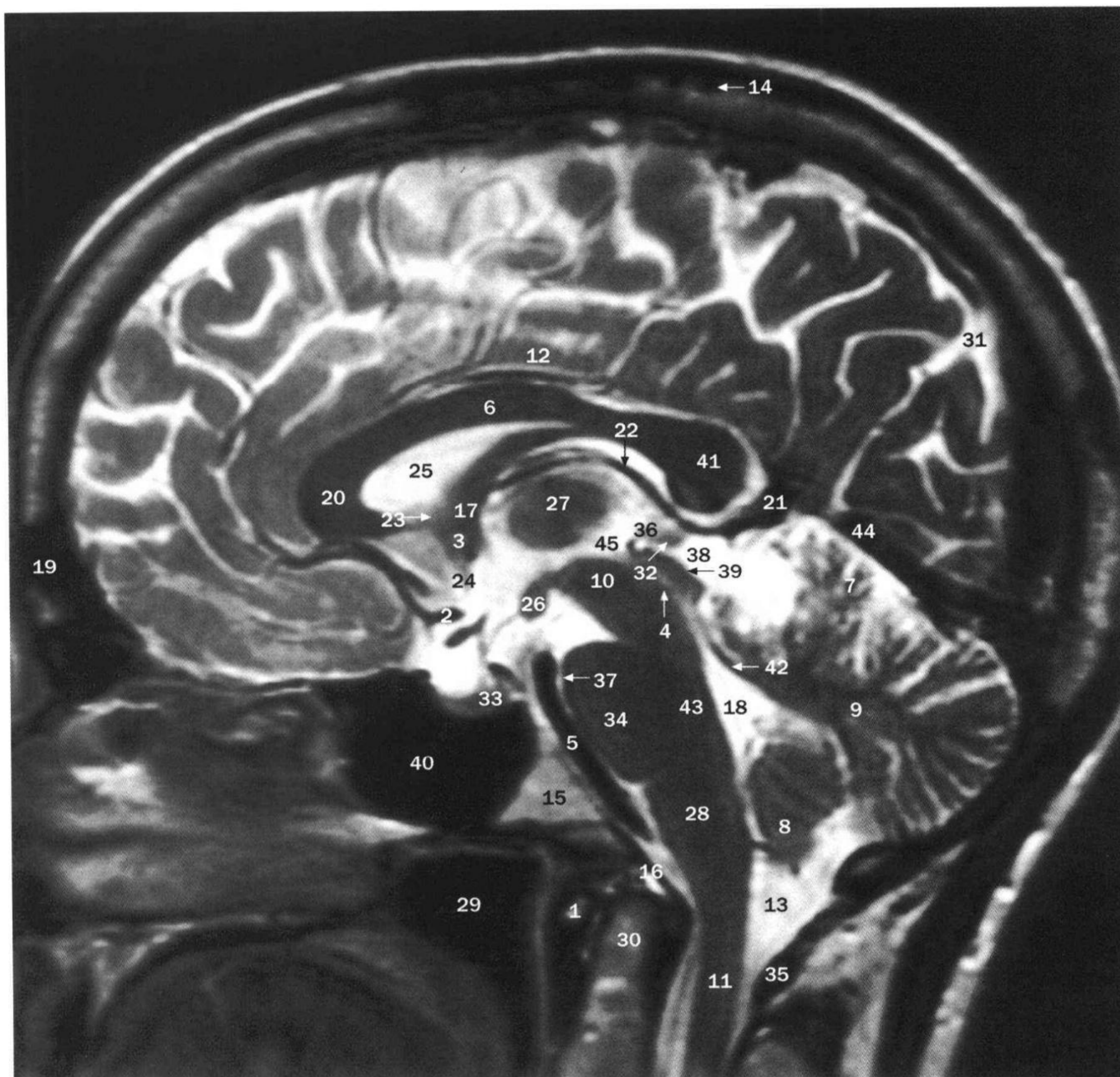


- | | |
|---------------------------------------|--|
| 96 蝶窦 sphenoidal sinus | 107 上蚓 superior vermis |
| 97 胼胝体压部 splenium of corpus callosum | 108 颞叶 temporal lobe |
| 98 直窦 straight sinus | 109 丘脑 thalamus |
| 99 黑质 substantia nigra | 110 第3脑室 third ventricle |
| 100 颞浅动脉 superficial temporal artery | 111 侧脑室3角区 trigone of lateral ventricle |
| 101 小脑上脚 superior cerebellar peduncle | 112 迷走神经 vagus nerve |
| 102 小脑上蚓 superior cerebellar vermis | 113 椎动脉 vertebral artery |
| 103 上丘 superior colliculus | 114 内耳前庭 vestibular part of inner ear |
| 104 额上回 superior frontal gyrus | 115 内耳道内的前庭蜗神经
vestibulocochlear nerve in internal acoustic canal |
| 105 眼上静脉 superior ophthalmic vein | 116 白质 white matter |
| 106 上矢状窦 superior sagittal sinus | |



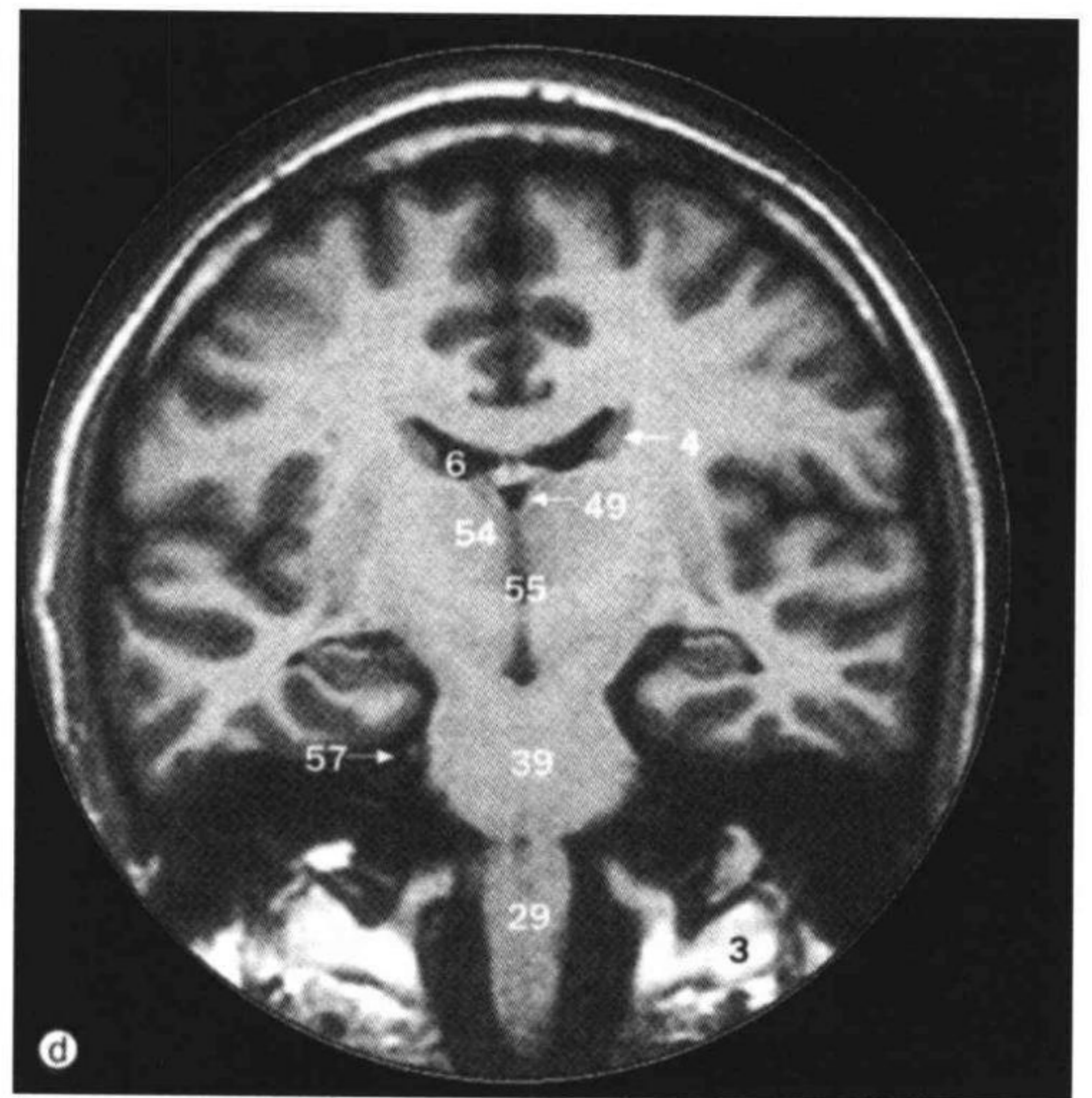
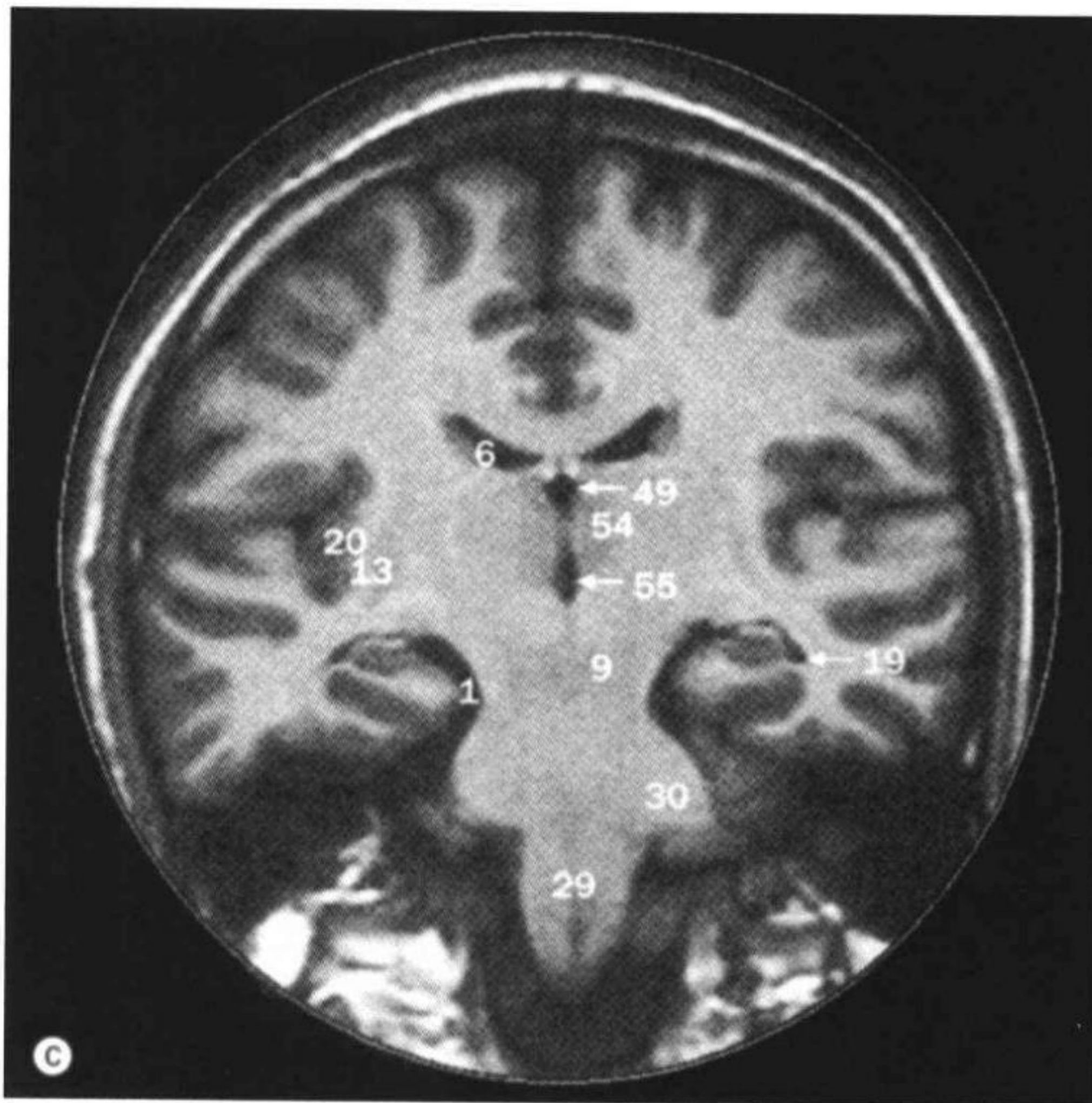
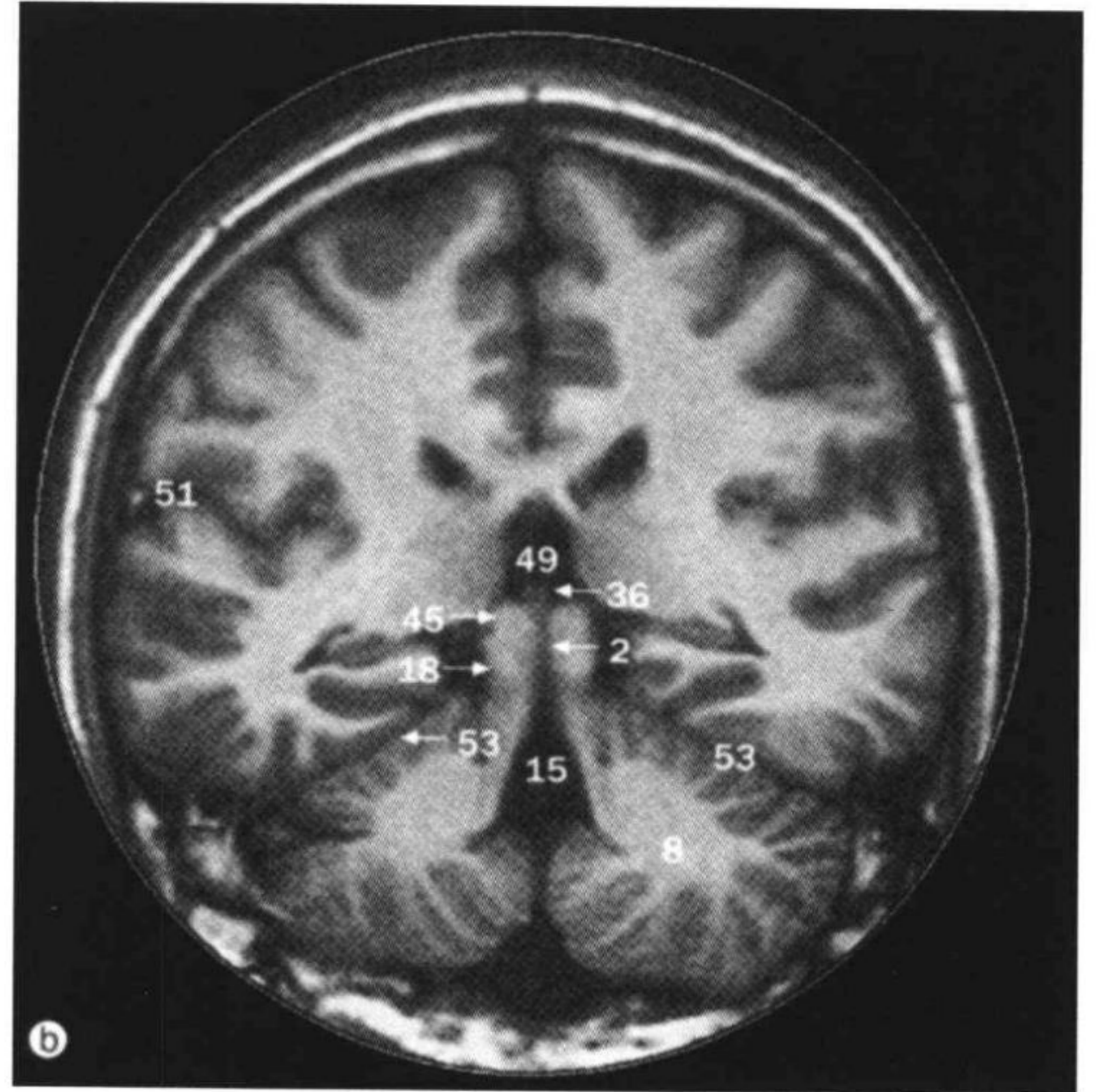
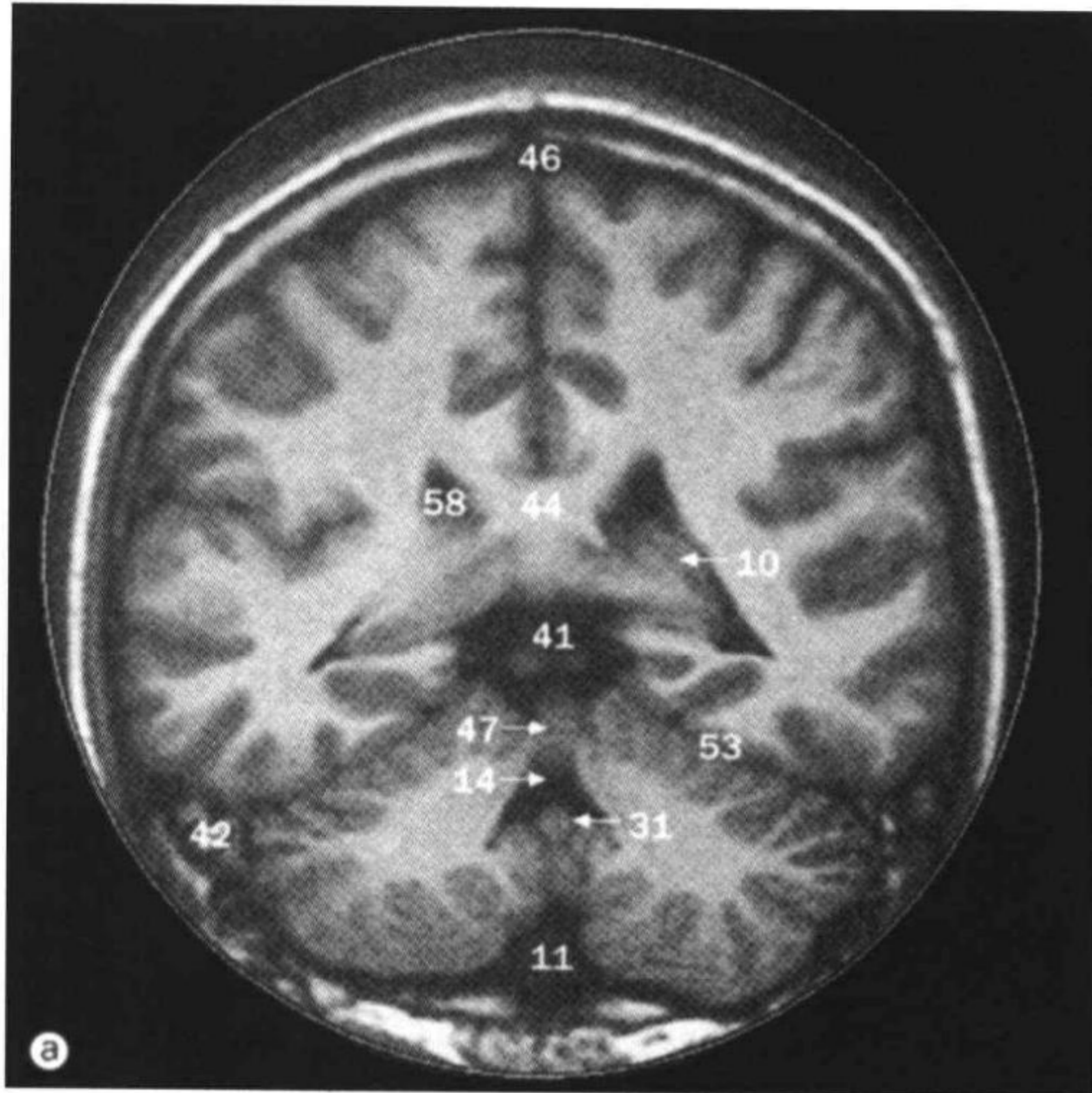
a~d. 脑, 矢状位 MRI。

- | | | | |
|---|---|--|---|
| 1 牙槽嵴 alveolar ridge | 16 辐射冠 corona radiata | 29 大脑内静脉
internal cerebral vein | 43 垂体 pituitary gland |
| 2 寰椎前弓 anterior arch of atlas (first cervical vertebra) | 17 皮质静脉 cortical vein | 30 室间孔 Interventricular foramen of Monro | 44 脑桥 pons |
| 3 大脑前动脉
anterior cerebral artery | 18 枕骨大孔
foramen magnum | 31 侧脑室 lateral ventricle | 45 寰椎后弓
posterior arch of atlas |
| 4 基底动脉 basilar artery | 19 第4脑室 fourth ventricle | 32 豆状核 lentiform nucleus | 46 桥前池 prepontine cistern |
| 5 胼胝体
body of corpus callosum | 20 额窦 frontal sinus | 33 下颌骨 mandible | 47 蝶窦 sphenoidal sinus |
| 6 侧脑室体部
body of lateral ventricle | 21 胼胝体膝
genu of corpus callosum | 34 上颌窦 maxillary sinus | 48 胼胝体压部 splenium of corpus callosum |
| 7 中央沟
central sulcus of Rolando | 22 眼球 globe | 35 延髓 medulla oblongata | 49 小脑上脚
superior cerebellar peduncle |
| 8 小脑叶片 cerebellar folia | 23 大脑大静脉
great cerebral vein of Galen | 36 小脑中脚
middle cerebellar peduncle | 50 上丘 superior colliculus |
| 9 小脑半球
cerebellar hemisphere | 24 尾状核头
head of caudate nucleus | 37 大脑中动脉
middle cerebral artery | 51 外侧沟 Sylvian fissure |
| 10 小脑 cerebellum | 25 小脑下脚 inferior cerebellar peduncle | 38 鼻咽 nasopharynx | 52 脑桥被盖部
tegmentum of pons |
| 11 大脑脚 cerebral peduncle | 26 下丘 inferior colliculus | 39 齿突
odontoid process (dens) | 53 颞叶
temporal lobe of brain |
| 12 颈髓 cervical spinal cord | 27 下直肌
inferior rectus muscle | 40 鞍上池内的视交叉 optic chiasma in suprasellar cistern | 54 小脑幕 tentorium cerebelli |
| 13 扣带回 cingulate gyrus | 28 颈内动脉海绵窦段
internal carotid artery in cavernous sinus | 41 视神经 optic nerve | 55 第3脑室 third ventricle |
| 14 扣带沟 cingulate sulcus | | 42 额叶眶皮质
orbital cortex of frontal lobe | 56 椎动脉 vertebral artery |
| 15 枕大池 cisterna magna | | | |



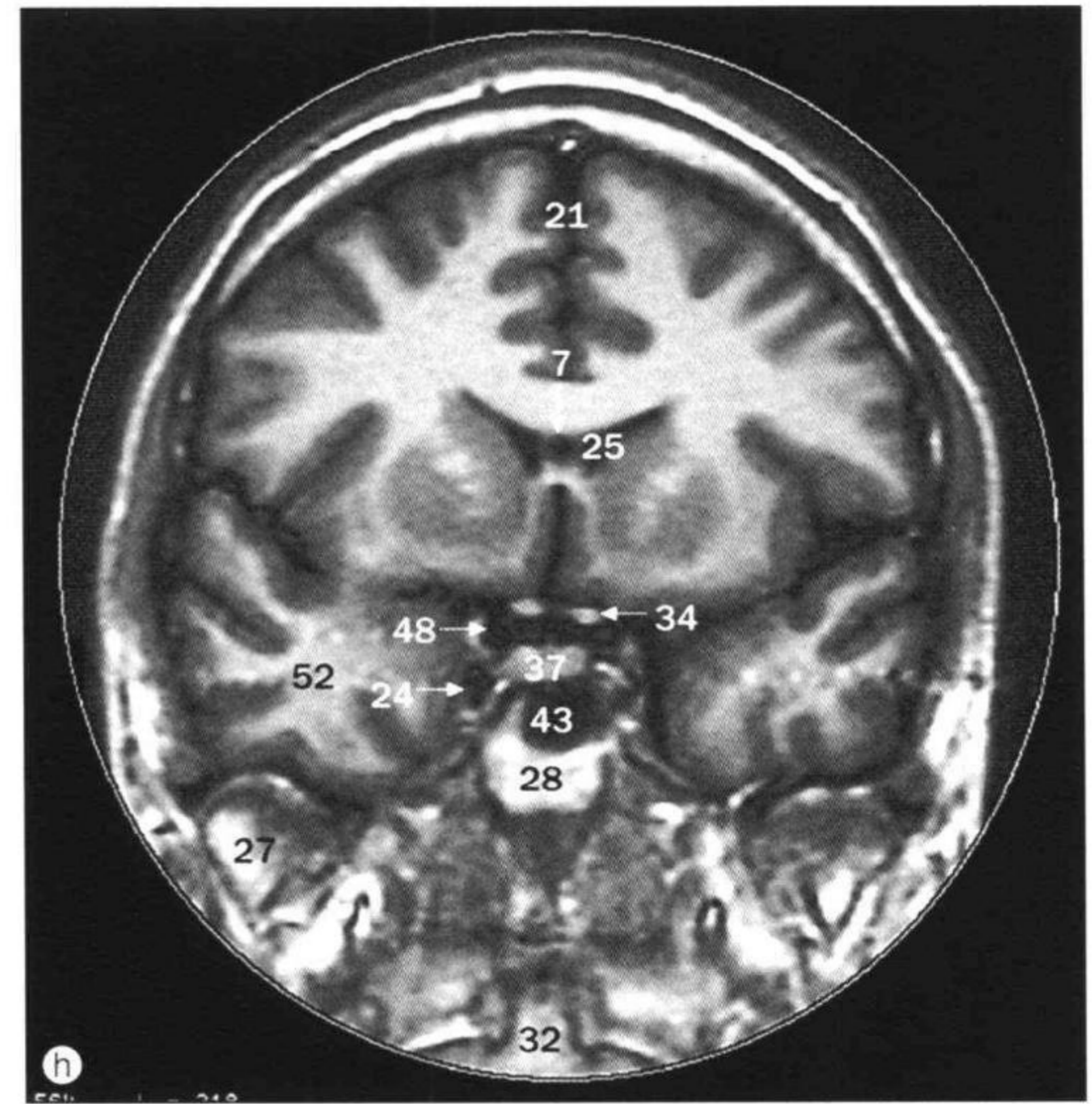
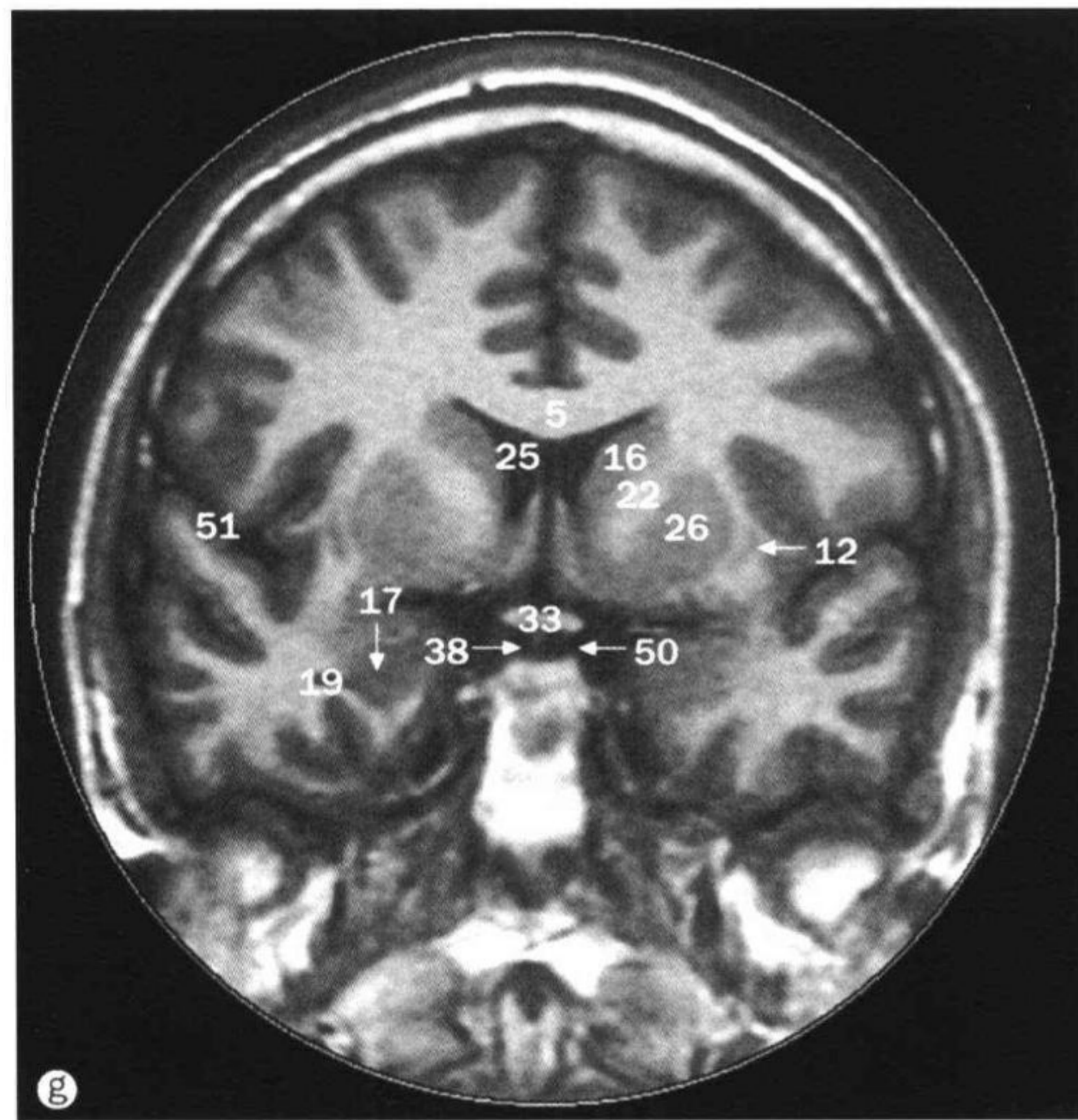
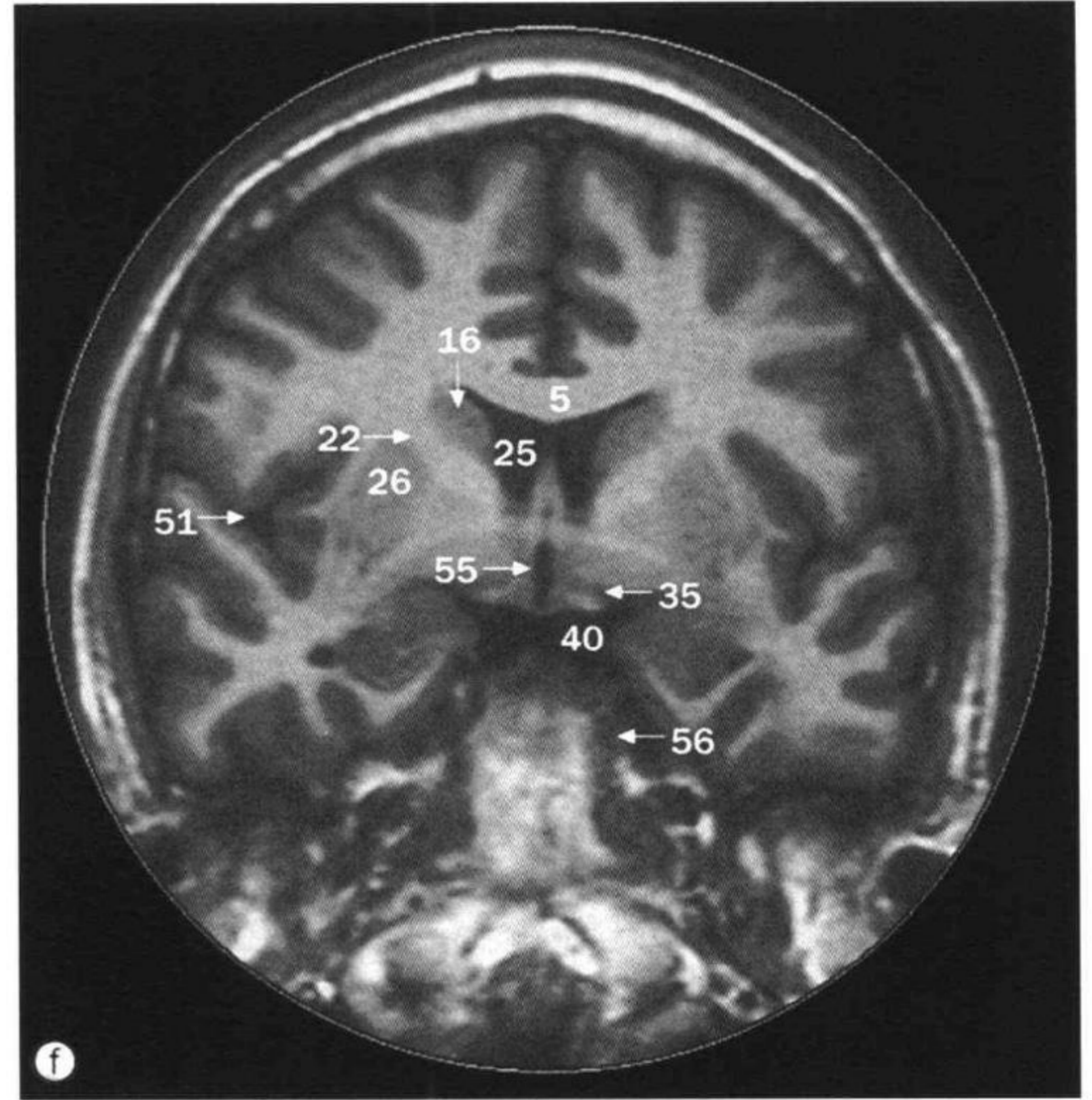
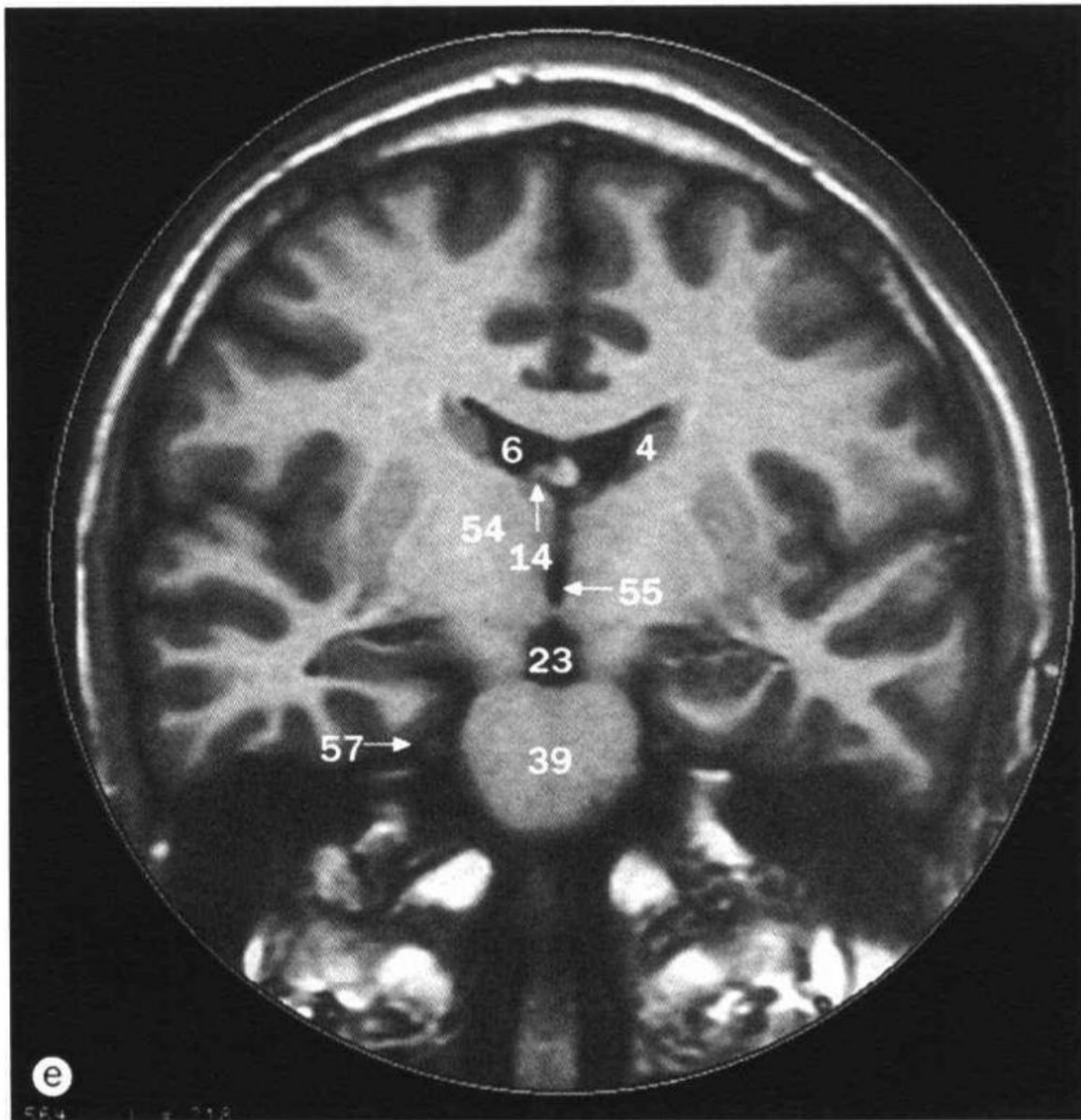
脑，矢状位 MRI。

- | | | |
|---|---|--|
| 1 寰椎前弓 anterior arch of atlas (first cervical vertebra) | 16 枕骨大孔 foramen magnum | 32 松果体 pineal gland |
| 2 大脑前动脉 anterior cerebral artery | 17 穹隆 fornix | 33 垂体 pituitary gland |
| 3 前连合 anterior commissure | 18 第4脑室 fourth ventricle | 34 脑桥 pons |
| 4 中脑导水管 aqueduct of Sylvius | 19 额窦 frontal sinus | 35 寰椎后弓 posterior arch of atlas |
| 5 基底动脉 basilar artery | 20 胼胝体膝 genu of corpus callosum | 36 后连合 posterior commissure |
| 6 胼胝体体部 body of corpus callosum | 21 大脑大静脉
great cerebral vein of Galen | 37 桥前池 prepontine cistern |
| 7 小脑叶片 cerebellar folia | 22 大脑内静脉 internal cerebral vein | 38 四叠体池 quadrigeminal cistern |
| 8 小脑扁桃体 cerebellar tonsil | 23 室间孔
interventricular foramen of Monro | 39 中脑四叠体板
quadrigeminal plate of midbrain |
| 9 小脑 cerebellum | 24 终板 lamina terminalis | 40 蝶窦 sphenoidal sinus |
| 10 中脑大脑脚
cerebral peduncles of midbrain | 25 侧脑室 lateral ventricle | 41 胼胝体压部
splenium of corpus callosum |
| 11 颈髓 cervical spinal cord | 26 乳头体 mammillary body | 42 上髓帆 superior medullary velum |
| 12 扣带回 cingulate gyrus | 27 中间块 massa intermedia | 43 脑桥被盖部 tegmentum of pons |
| 13 枕大池 (小脑延髓池) cisterna magna
(cerebellomedullary cistern) | 28 延髓 medulla oblongata | 44 小脑幕 tentorium cerebelli |
| 14 板障静脉 diploic veins | 29 鼻咽 nasopharynx | 45 第3脑室 third ventricle |
| 15 斜坡黄骨髓 fat in marrow of clivus | 30 齿突 odontoid process (dens) | |
| | 31 顶枕沟 parieto-occipital fissure | |

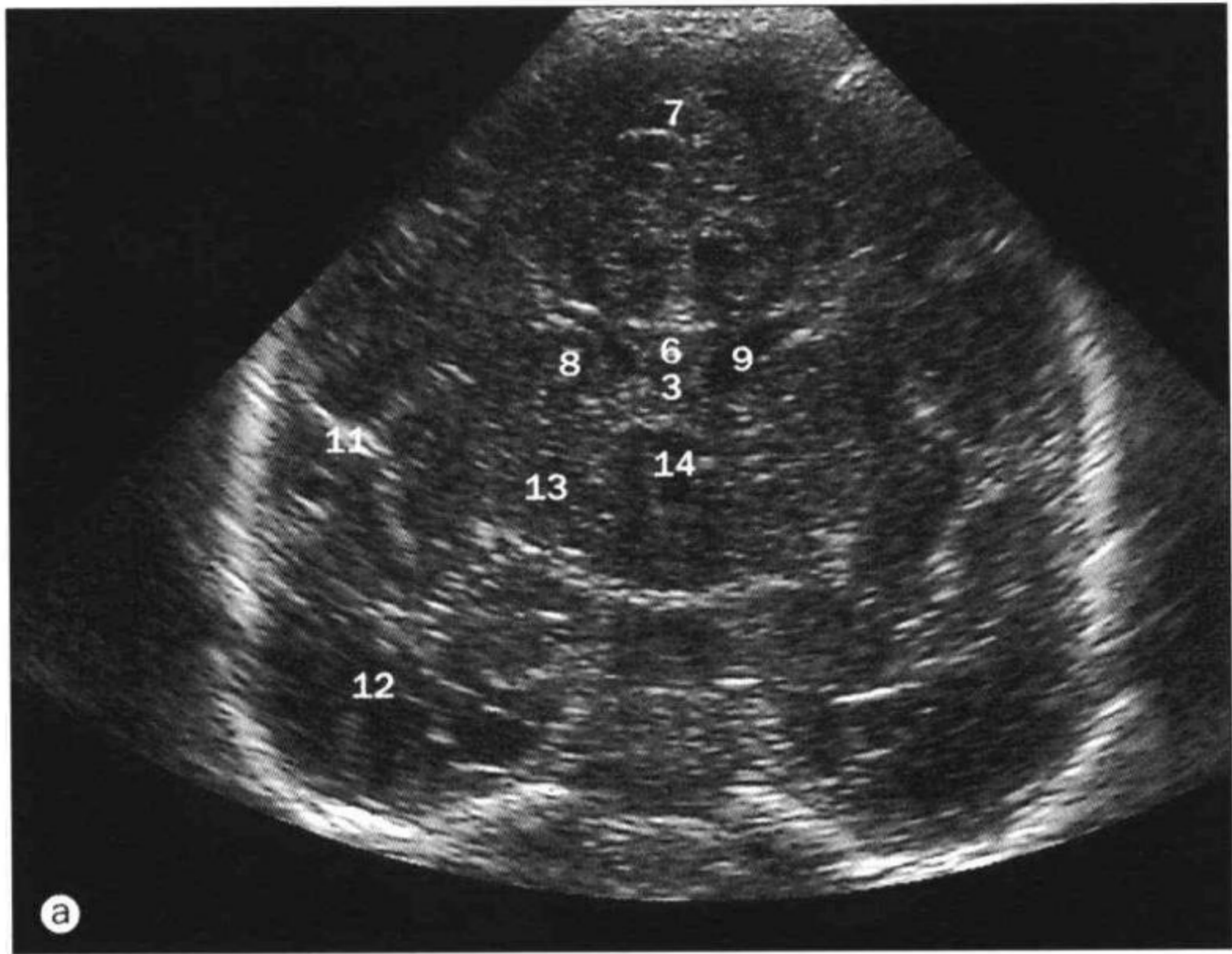


a~h. 脑, 冠状位 MRI。

- | | | |
|---|--|---|
| 1 环池 ambient cistern | 12 屏状核和外囊
claustrum and external capsule | 22 内囊 internal capsule |
| 2 中脑导水管 aqueduct of Sylvius | 13 外囊 external capsule | 23 脚间池 interpeduncular cistern |
| 3 寰椎 atlas (first cervical vertebra) | 14 穹隆 fornix | 24 颈内动脉海绵窦段
intracavernous internal carotid artery |
| 4 尾状核体 body of caudate nucleus | 15 第4脑室 fourth ventricle | 25 侧脑室 lateral ventricle |
| 5 胼胝体体部 body of corpus callosum | 16 尾状核头 head of caudate nucleus | 26 豆状核 lentiform nucleus |
| 6 侧脑室体部 body of lateral ventricle | 17 海马 hippocampus | 27 下颌骨 mandible |
| 7 透明隔腔 cavum septum pellucidum | 18 下丘 inferior colliculus | 28 基蝶骨 (斜坡) 骨髓
marrow of basisphenoid (clivus) |
| 8 小脑半球 cerebellar hemisphere | 19 侧脑室下 (颞) 角 inferior (temporal)
horn of lateral ventricle | 29 延髓 medulla oblongata |
| 9 大脑脚 cerebral peduncle | 20 脑岛 insula | 30 小脑中脚
middle cerebellar peduncle |
| 10 脉络丛 choroid plexus | 21 半球间池 interhemispheric cistern | |
| 11 枕大池 (小脑延髓池) cisterna magna
(cerebellomedullary cistern) | | |

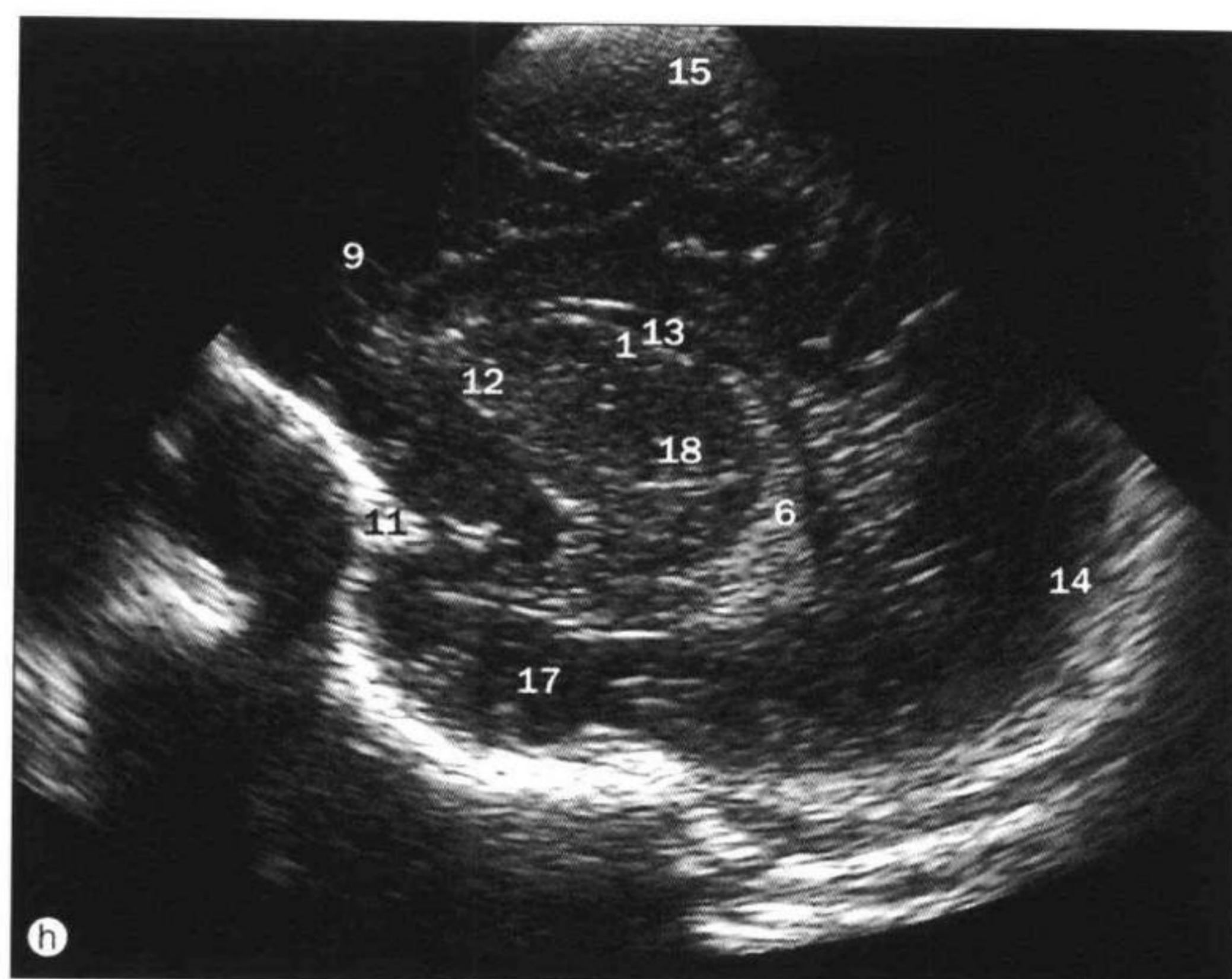
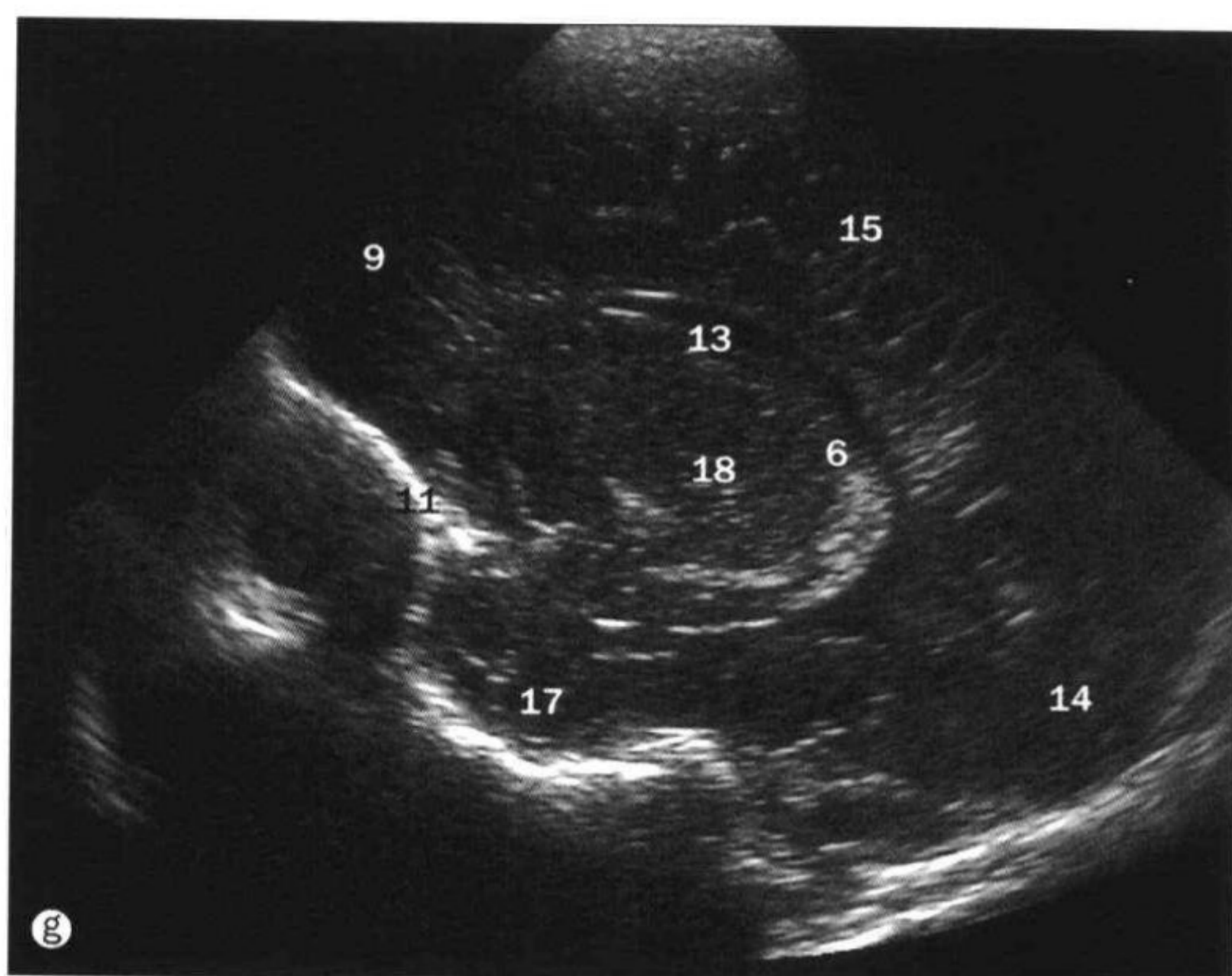
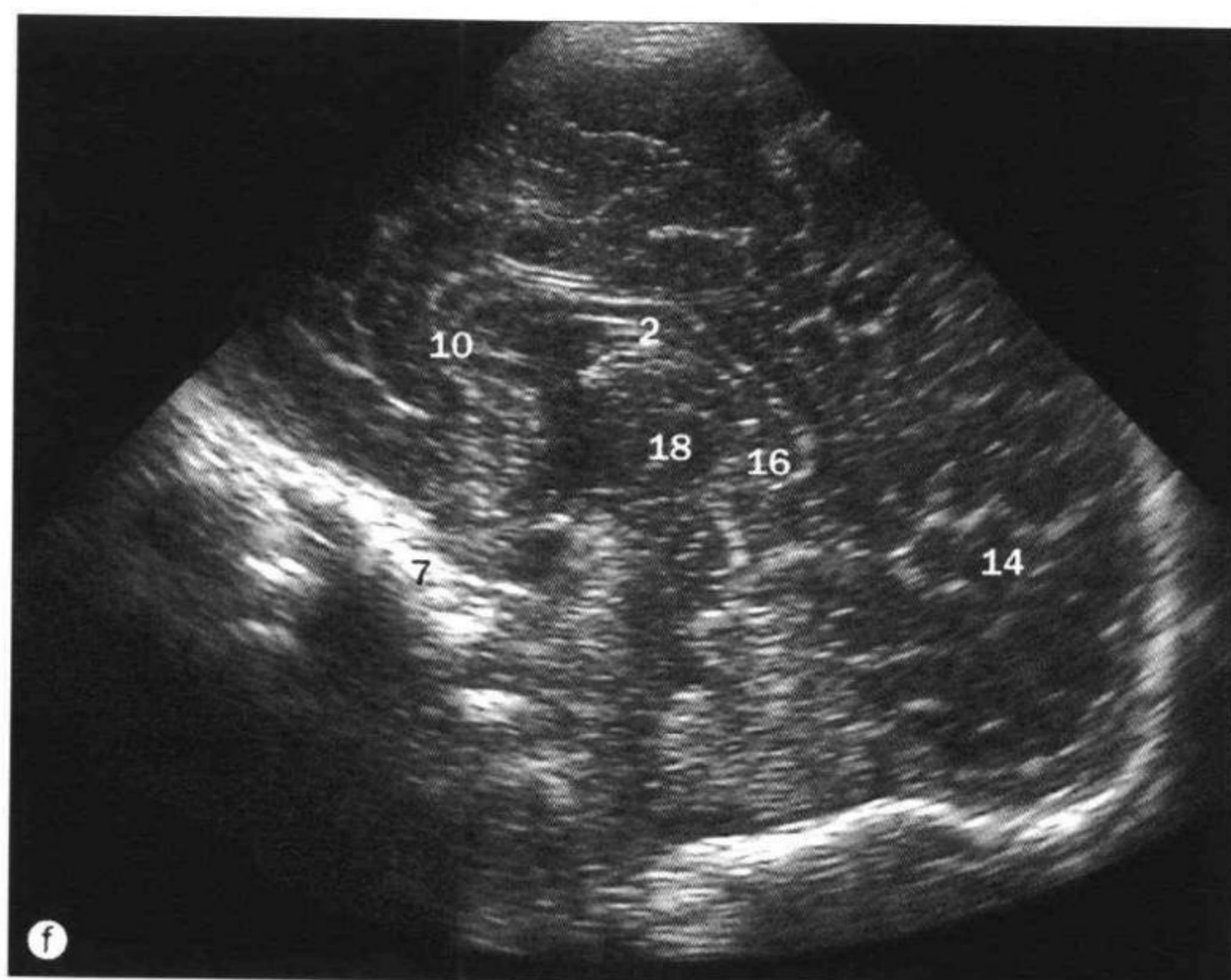
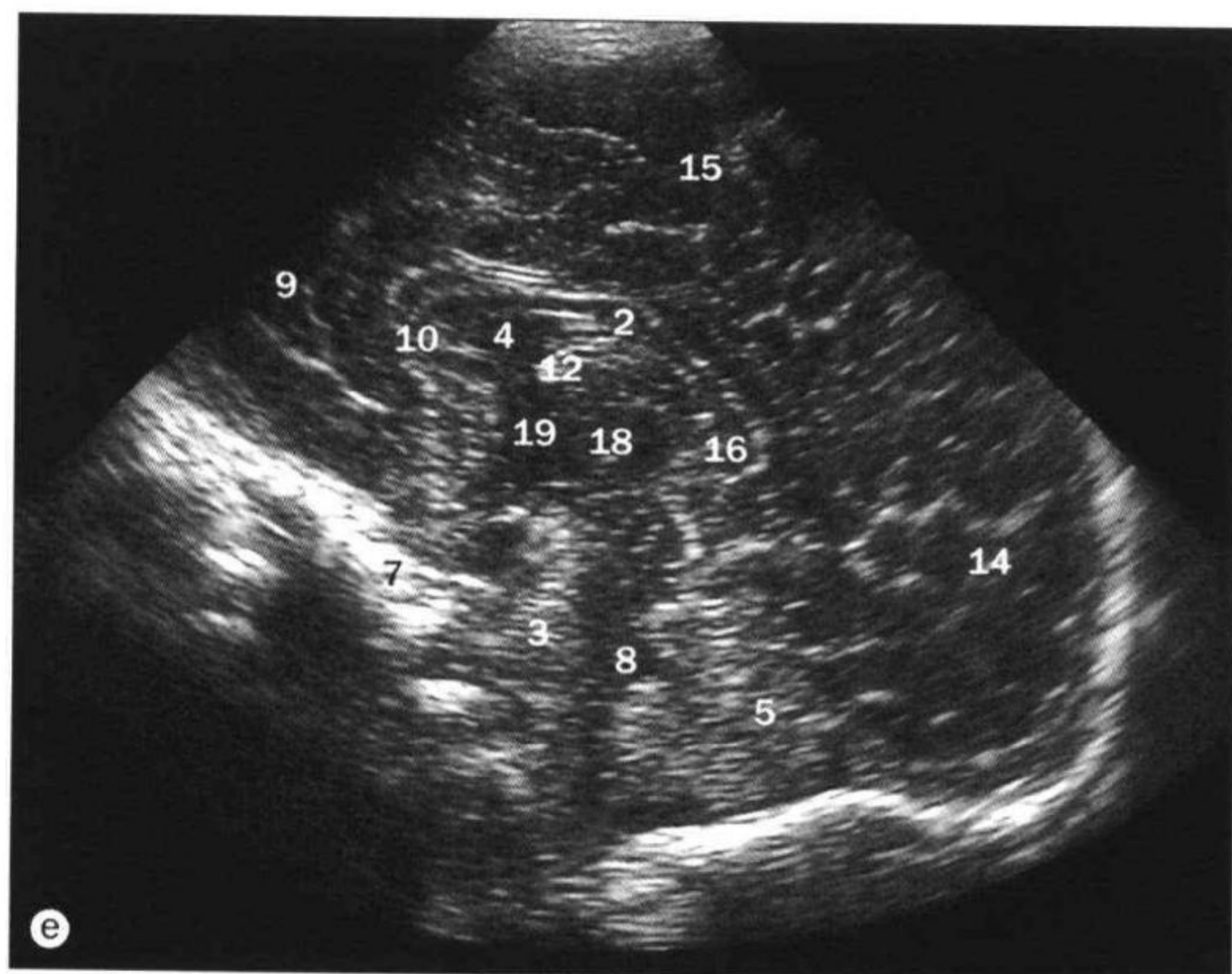


- | | | |
|---|--|--|
| 31 小脑小结 nodule of cerebellum | 41 四叠体池 quadrigeminal cistern | 50 鞍上池 suprasellar cistern |
| 32 齿突 odontoid process (dens) | 42 乙状窦 sigmoid sinus | 51 外侧沟 Sylvian fissure |
| 33 鞍上池内的视交叉
optic chiasma in suprasellar cistern | 43 蝶窦 sphenoidal sinus | 52 颞叶 temporal lobe |
| 34 视神经 optic nerve | 44 胼胝体压部
splenium of corpus callosum | 53 小脑幕 tentorium cerebelli |
| 35 视束 optic tract | 45 上丘 superior colliculus | 54 丘脑 thalamus |
| 36 松果体 pineal gland | 46 上矢状窦 superior sagittal sinus | 55 第3脑室 third ventricle |
| 37 垂体 pituitary gland | 47 上蚓 superior vermis | 56 Meckel 腔内的三叉神经节
trigeminal (gasserian) ganglion in
recess (Meckel's cave) |
| 38 鞍上池内的垂体柄
pituitary stalk in suprasellar cistern | 48 颈内动脉床突上段
supraclinoid internal carotid artery | 57 三叉神经 trigeminal nerve |
| 39 脑桥 pons | 49 第3脑室松果体上隐窝 suprapineal
recess of the third ventricle | 58 侧脑室三角区
trigone of lateral ventricle |
| 40 桥前池 prepontine cistern | | |



a~d. 新生儿脑，冠状位超声。

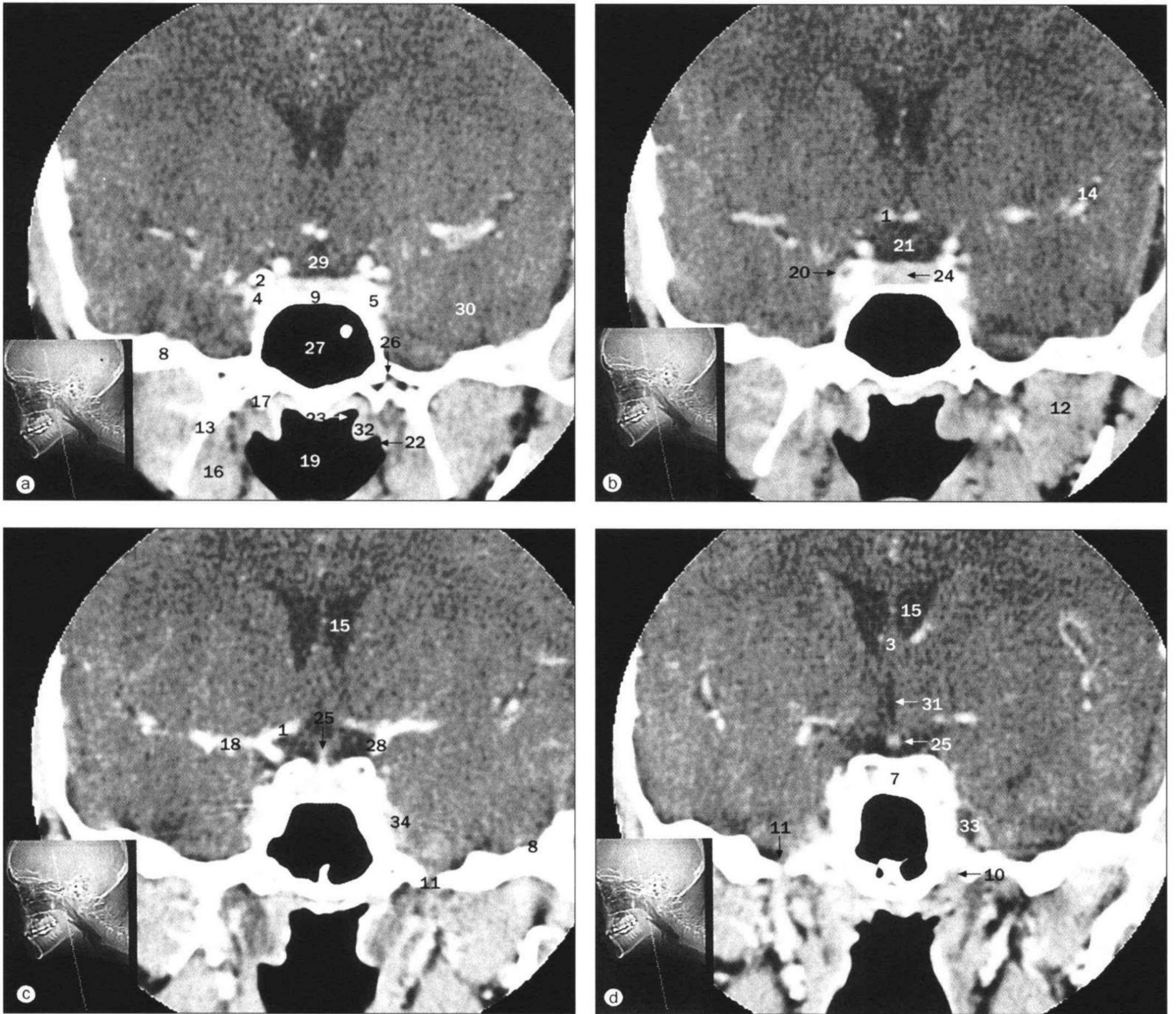
- 1 尾状核体 body of caudate nucleus
- 2 脑干 brainstem
- 3 透明隔腔 cavum septum pellucidum
- 4 小脑 cerebellum
- 5 脉络丛 choroid plexus
- 6 胼胝体 corpus callosum
- 7 大脑镰 falx cerebri
- 8 尾状核头 head of caudate nucleus
- 9 侧脑室 lateral ventricle
- 10 大脑顶叶 parietal lobe of brain
- 11 外侧沟 Sylvian fissure
- 12 颞叶 temporal lobe
- 13 丘脑 thalamus
- 14 第3脑室 third ventricle



e~h. 新生儿脑，矢状位超声。

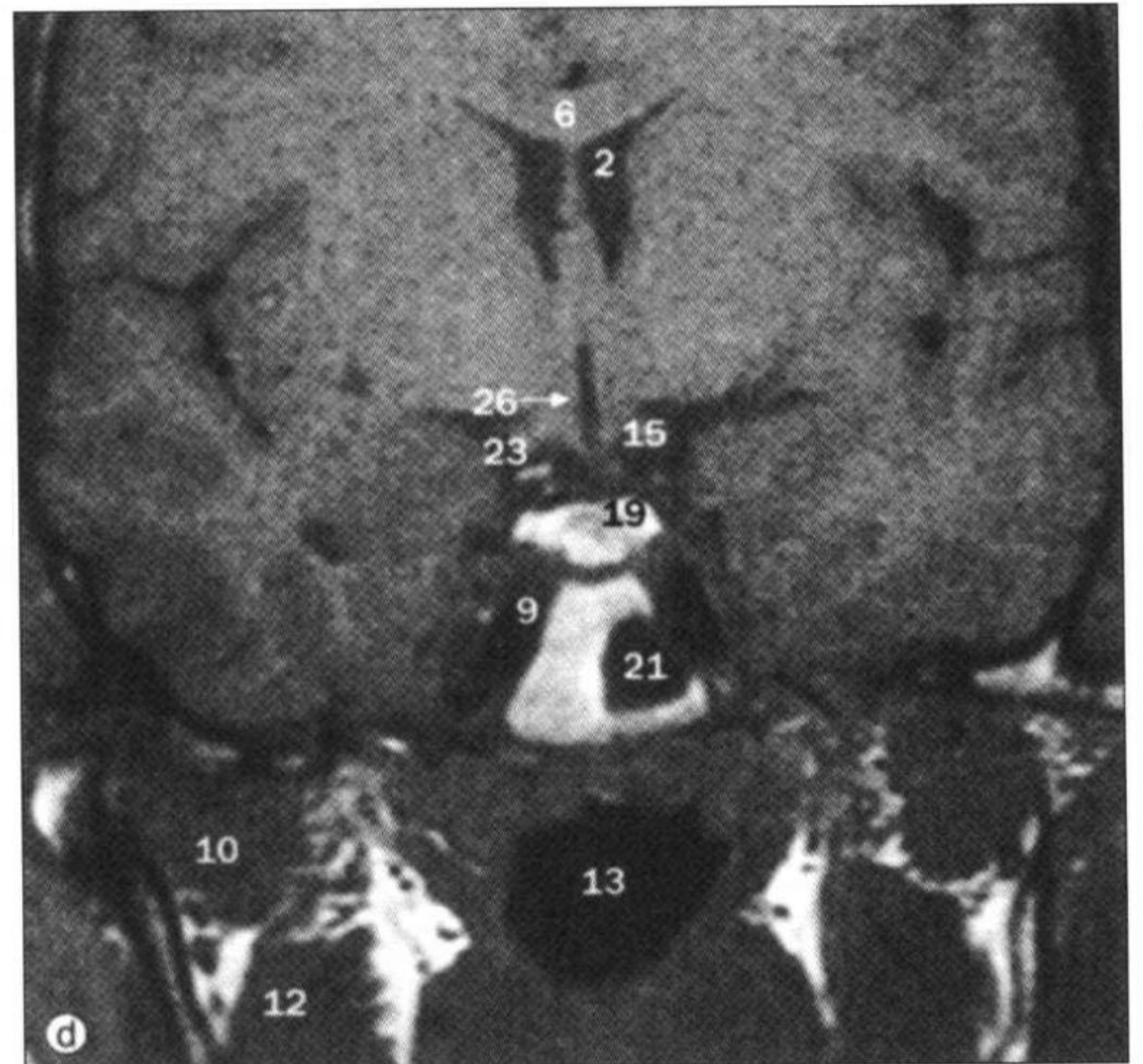
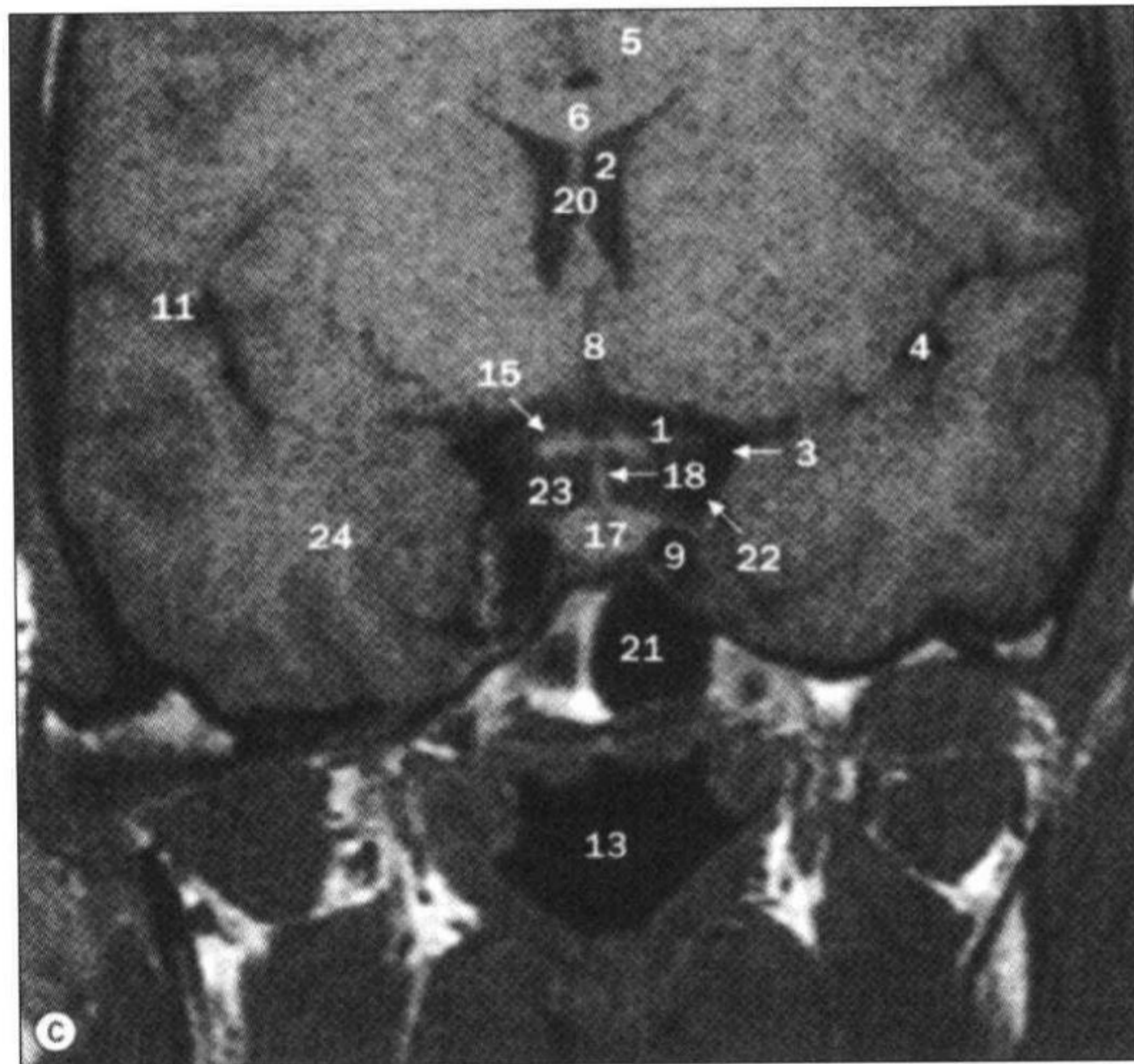
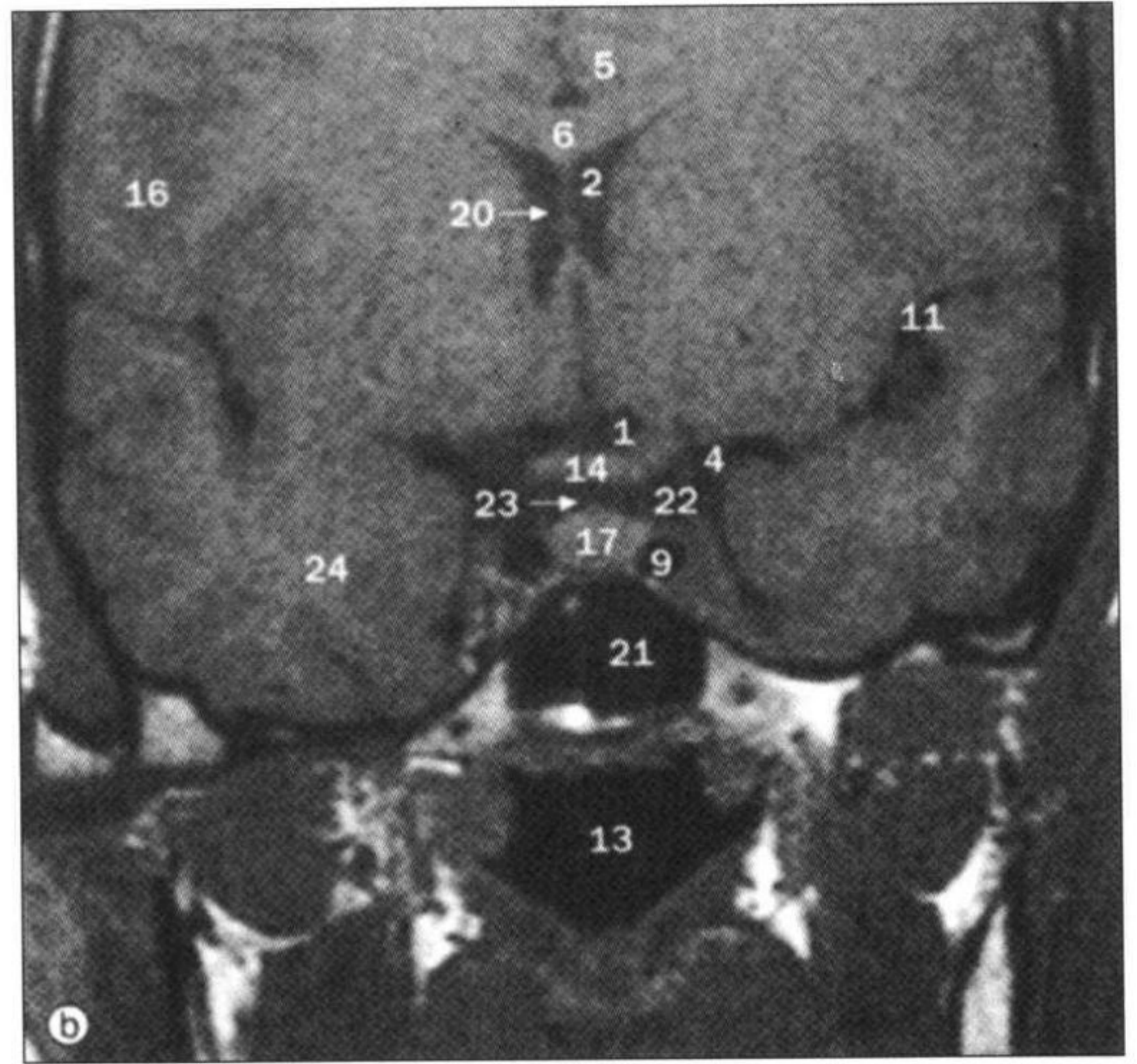
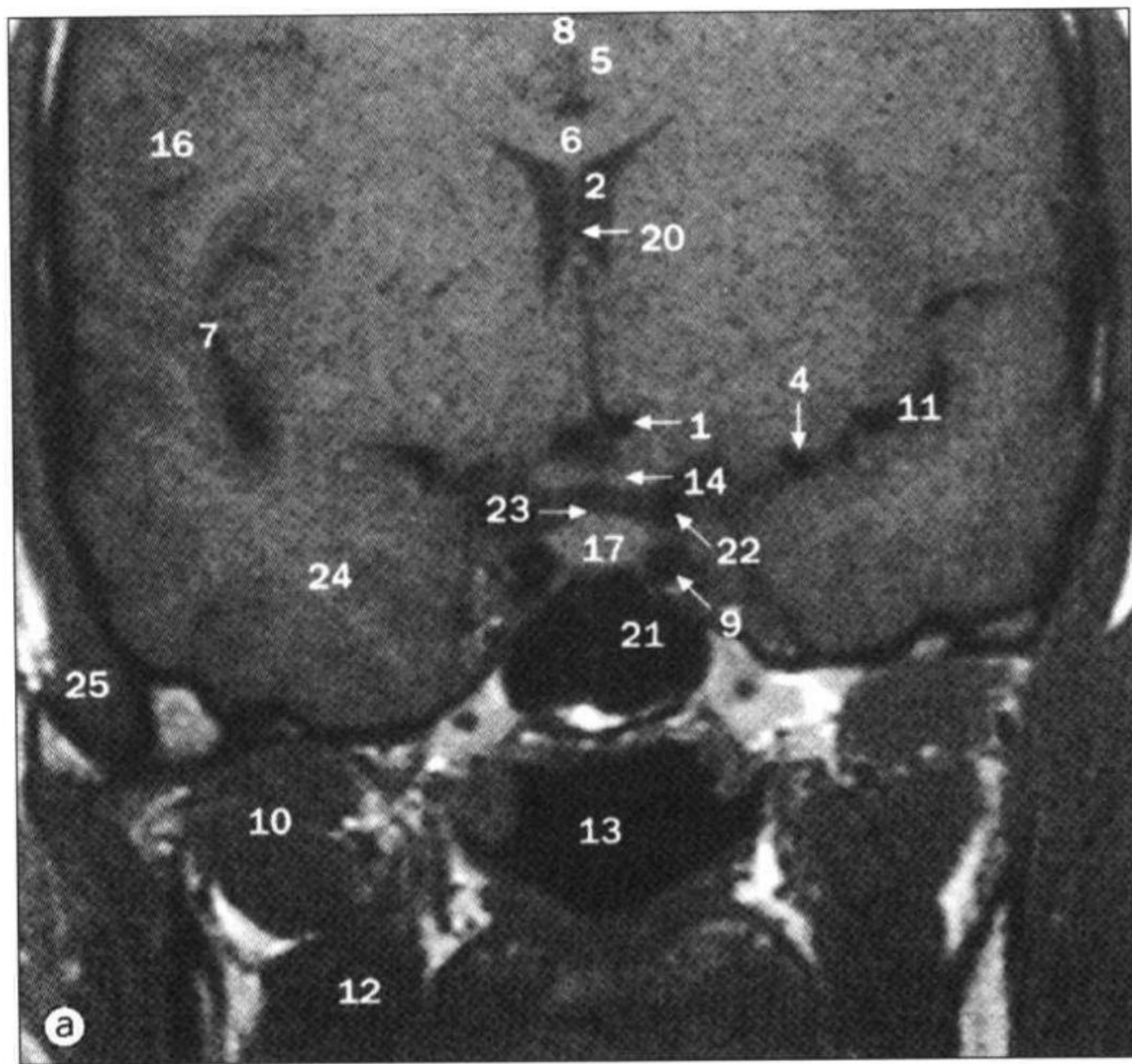
- 1 尾状核体 body of caudate nucleus
- 2 胼胝体体部 body of corpus callosum
- 3 脑干 brainstem
- 4 透明隔腔 cavum septum pellucidum
- 5 小脑 cerebellum
- 6 脉络丛 choroid plexus
- 7 斜坡 clivus
- 8 第4脑室 fourth ventricle
- 9 额叶 frontal lobe
- 10 胼胝体膝 genu of corpus callosum

- 11 蝶骨大翼 greater wing of sphenoid
- 12 尾状核头 head of caudate nucleus
- 13 侧脑室 lateral ventricle
- 14 枕叶 occipital lobe
- 15 大脑顶叶 parietal lobe of brain
- 16 胼胝体压部 splenium of corpus callosum
- 17 颞叶 temporal lobe
- 18 丘脑 thalamus
- 19 第3脑室 third ventricle



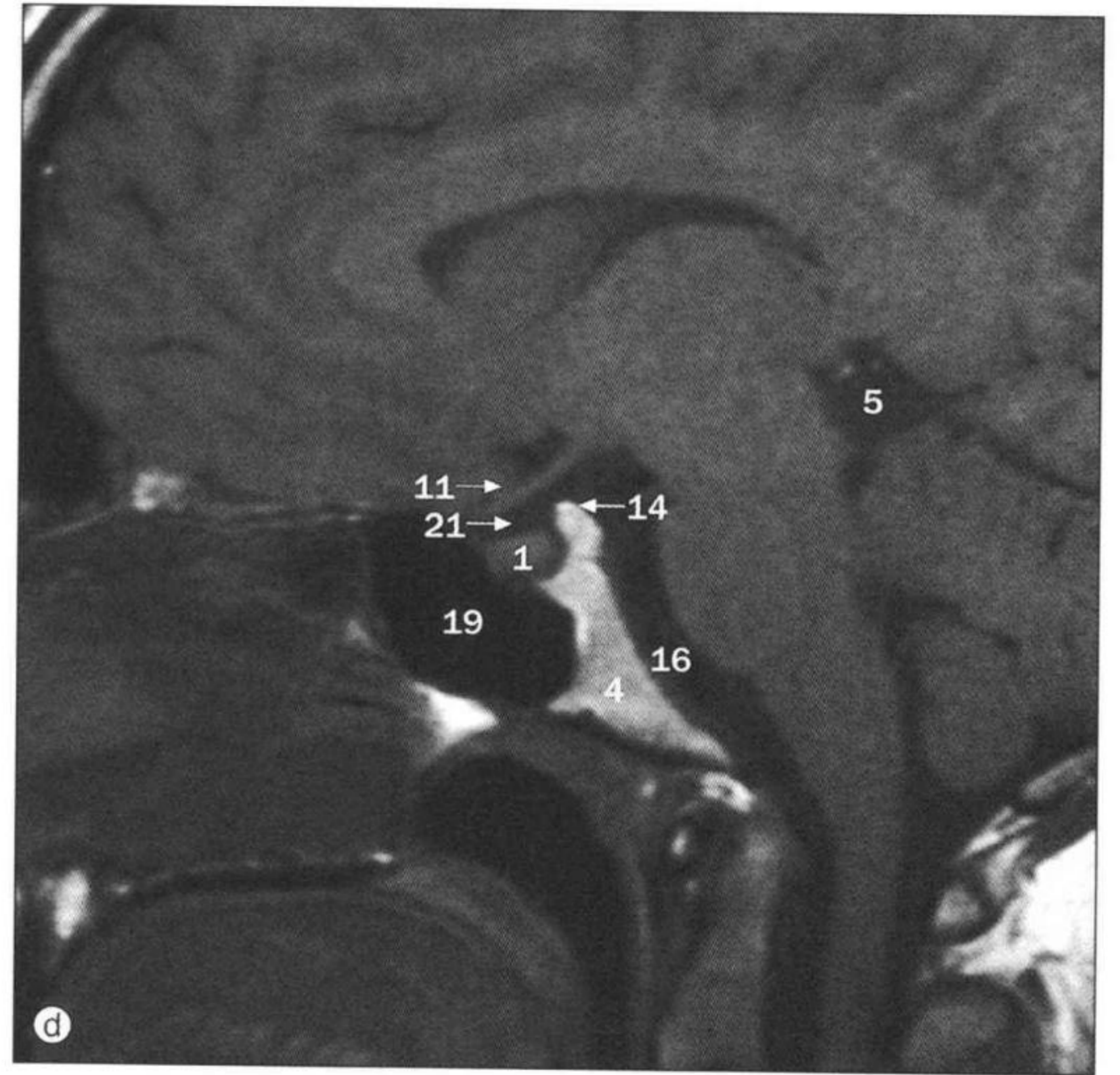
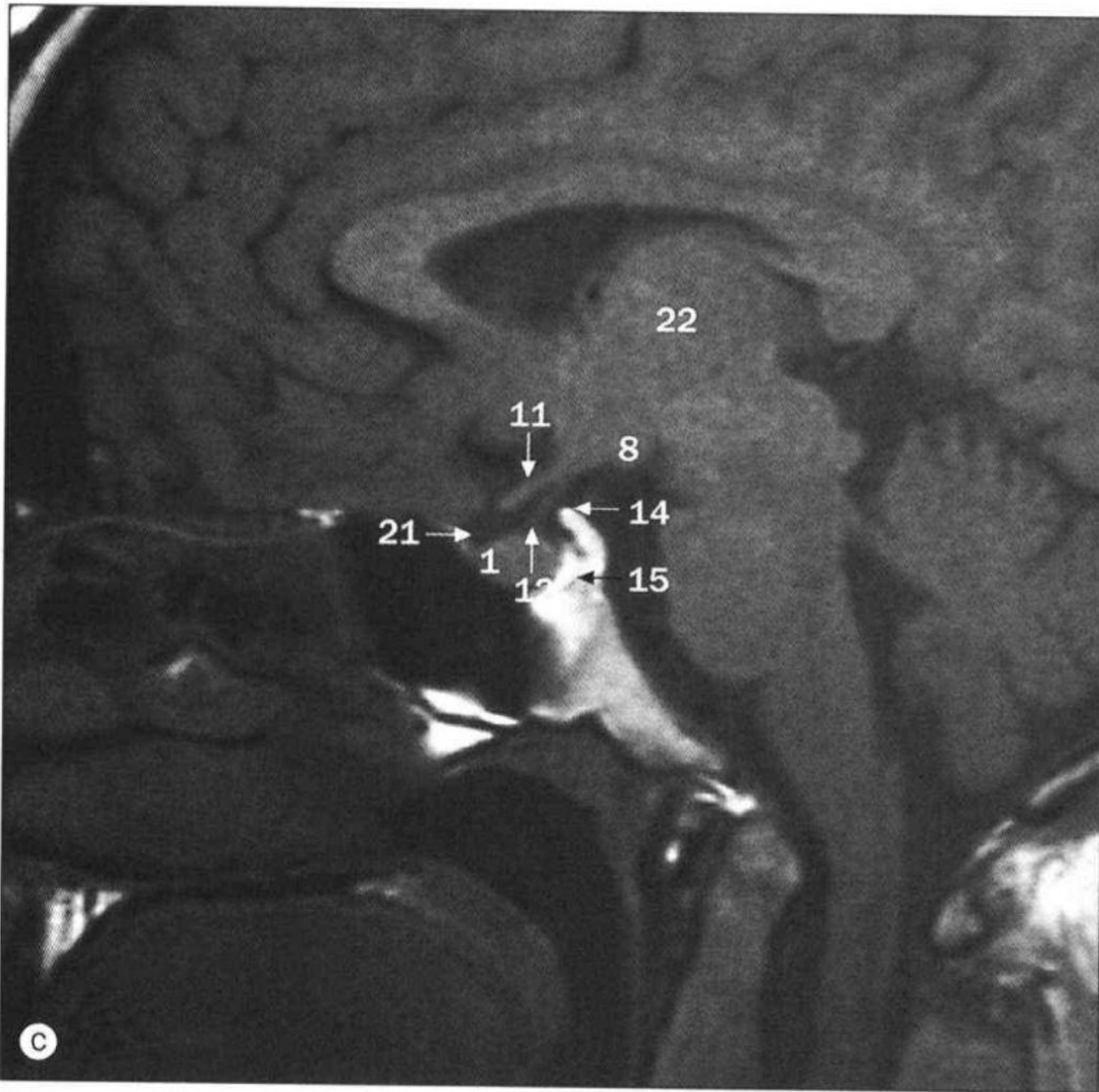
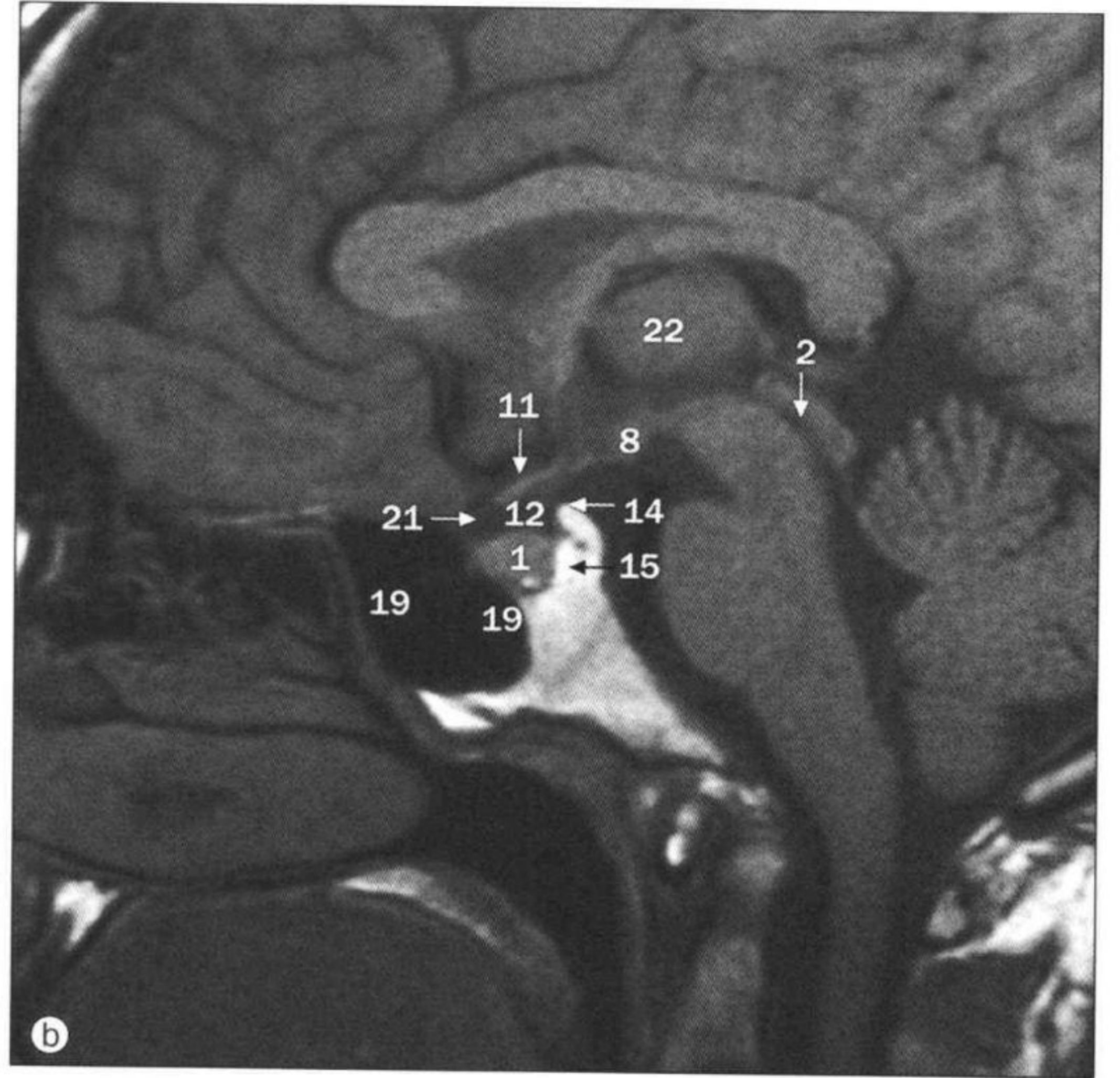
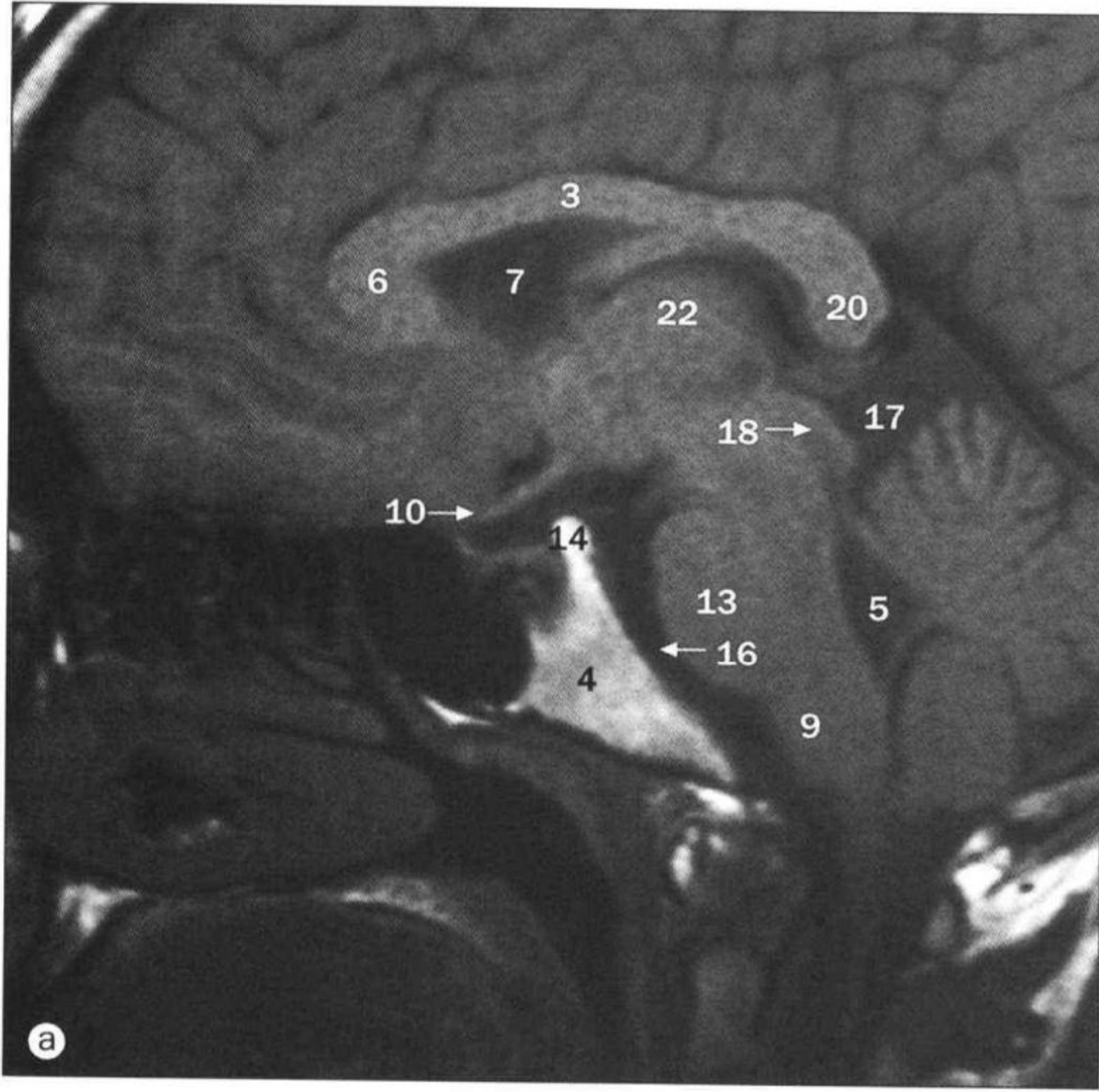
a~d. 垂体窝（蝶鞍），冠状位 CT。从垂体窝由前到后冠状位扫描，层厚 2mm，静脉注射非离子水溶性对比剂。

- | | | |
|--|--|--|
| 1 大脑前动脉 anterior cerebral artery | 13 翼突外侧板 lateral pterygoid plate | 24 垂体 pituitary gland |
| 2 前床突 anterior clinoid process | 14 外侧沟（内含大脑中动脉分支）
lateral sulcus (Sylvian fissure) with
branches of middle cerebral artery | 25 垂体柄 pituitary stalk |
| 3 穹隆体 body of fornix | 15 侧脑室 lateral ventricle | 26 翼管 pterygoid (vidian) canal |
| 4 颈内动脉海绵窦段
cavernous carotid artery | 16 翼内肌 medial pterygoid muscle | 27 蝶窦 sphenoidal sinus |
| 5 海绵窦 cavernous sinus | 17 翼突内侧板 medial pterygoid plate | 28 颈内动脉床突上段
supraclinoid internal carotid artery |
| 6 脉络丛 choroid plexus | 18 大脑中动脉 middle cerebral artery | 29 鞍上池 suprasellar cistern |
| 7 鞍背 dorsum sellae | 19 鼻咽 nasopharynx | 30 颞叶 temporal lobe of brain |
| 8 颅中窝底
floor of middle cranial fossa | 20 动眼神经 oculomotor nerve | 31 第3脑室 third ventricle |
| 9 蝶鞍（垂体窝）底
floor of pituitary fossa (sella turcica) | 21 视交叉 optic chiasma | 32 咽鼓管圆枕 torus tubarius |
| 10 破裂孔 foramen lacerum | 22 咽鼓管口
orifice of auditory (eustachian) tube | 33 Meckel 腔内的三叉神经节
trigeminal (gasserian) ganglion in
recess (Meckel's cave) |
| 11 卵圆孔 foramen ovale | 23 咽隐窝 pharyngeal recess (fossa of
Rosenmuller) | 34 三叉神经 trigeminal nerve |
| 12 翼外肌 lateral pterygoid muscle | | |



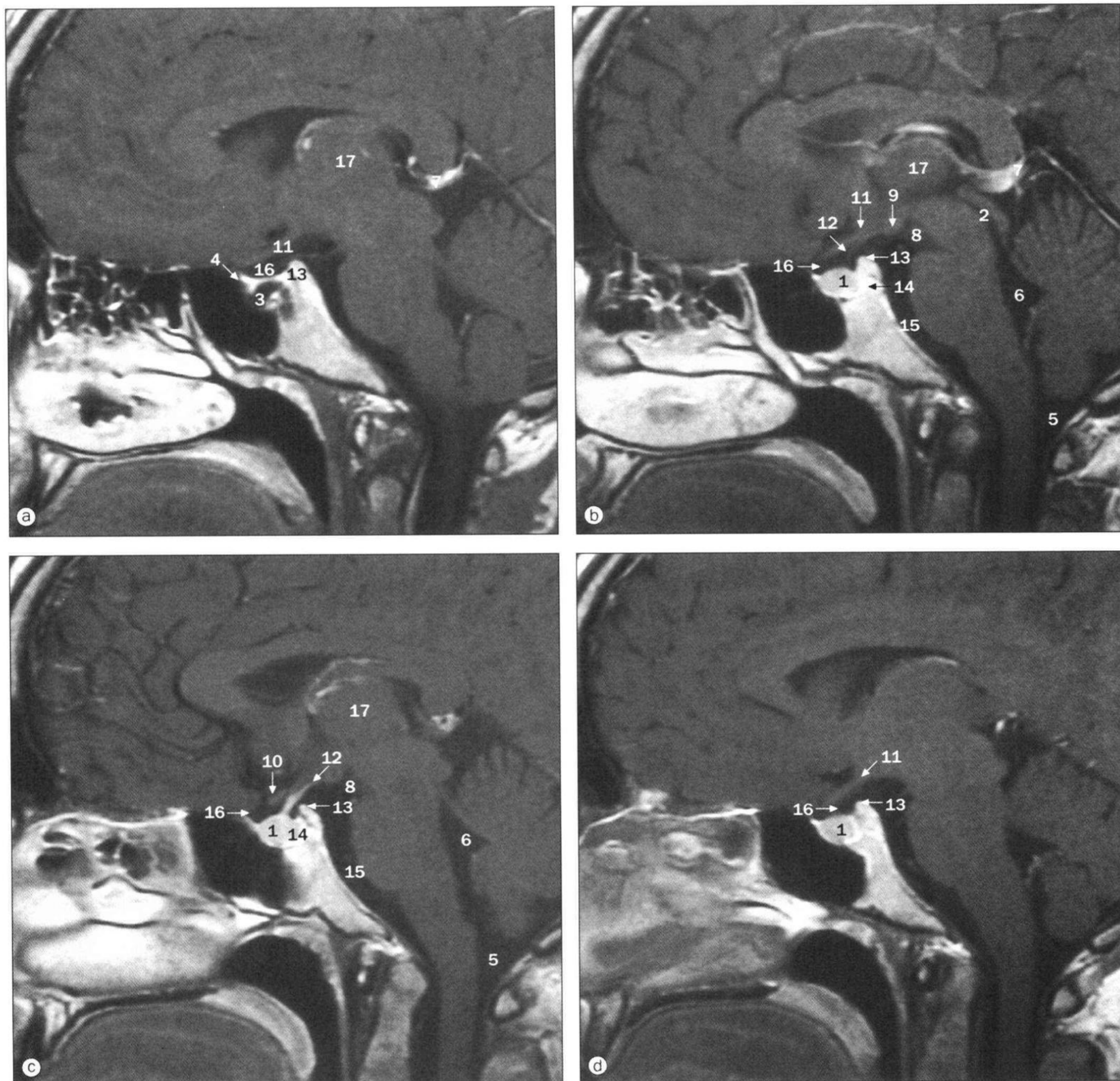
垂体窝（蝶鞍），冠状位 MRI。于以下不同层面进行的扫描：a. 前床突；b. 垂体窝中部；c. 垂体柄；d. 鞍背。

- | | | |
|---|--|---|
| 1 大脑前动脉 anterior cerebral artery | 8 半球间裂 interhemispheric fissure | 18 垂体柄 pituitary stalk |
| 2 侧脑室前角
anterior horn of lateral ventricle | 9 颈内动脉海绵窦段 internal carotid
artery in cavernous sinus | 19 后床突 posterior clinoid process |
| 3 颈内动脉分叉部
bifurcation of internal carotid artery | 10 翼外肌 lateral pterygoid muscle | 20 透明隔 septum pellucidum |
| 4 大脑中动脉在外侧沟的分支
branch of middle cerebral artery in
lateral sulcus (Sylvian fissure) | 11 外侧沟 lateral sulcus (Sylvian fissure) | 21 蝶窦 sphenoidal sinus |
| 5 扣带回 cingulate gyrus | 12 翼内肌 medial pterygoid muscle | 22 颈内动脉床突上段
supraclinoid internal carotid artery |
| 6 胼胝体 corpus callosum | 13 鼻咽 nasopharynx | 23 鞍上池 suprasellar cistern |
| 7 脑岛 insula | 14 视交叉 optic chiasma | 24 颞叶 temporal lobe of brain |
| | 15 视束 optic tract | 25 颞肌 temporalis muscle |
| | 16 大脑顶叶 parietal lobe of brain | 26 第3脑室 third ventricle |
| | 17 垂体 pituitary gland | |



a~d. 垂体窝，矢状位 MRI。

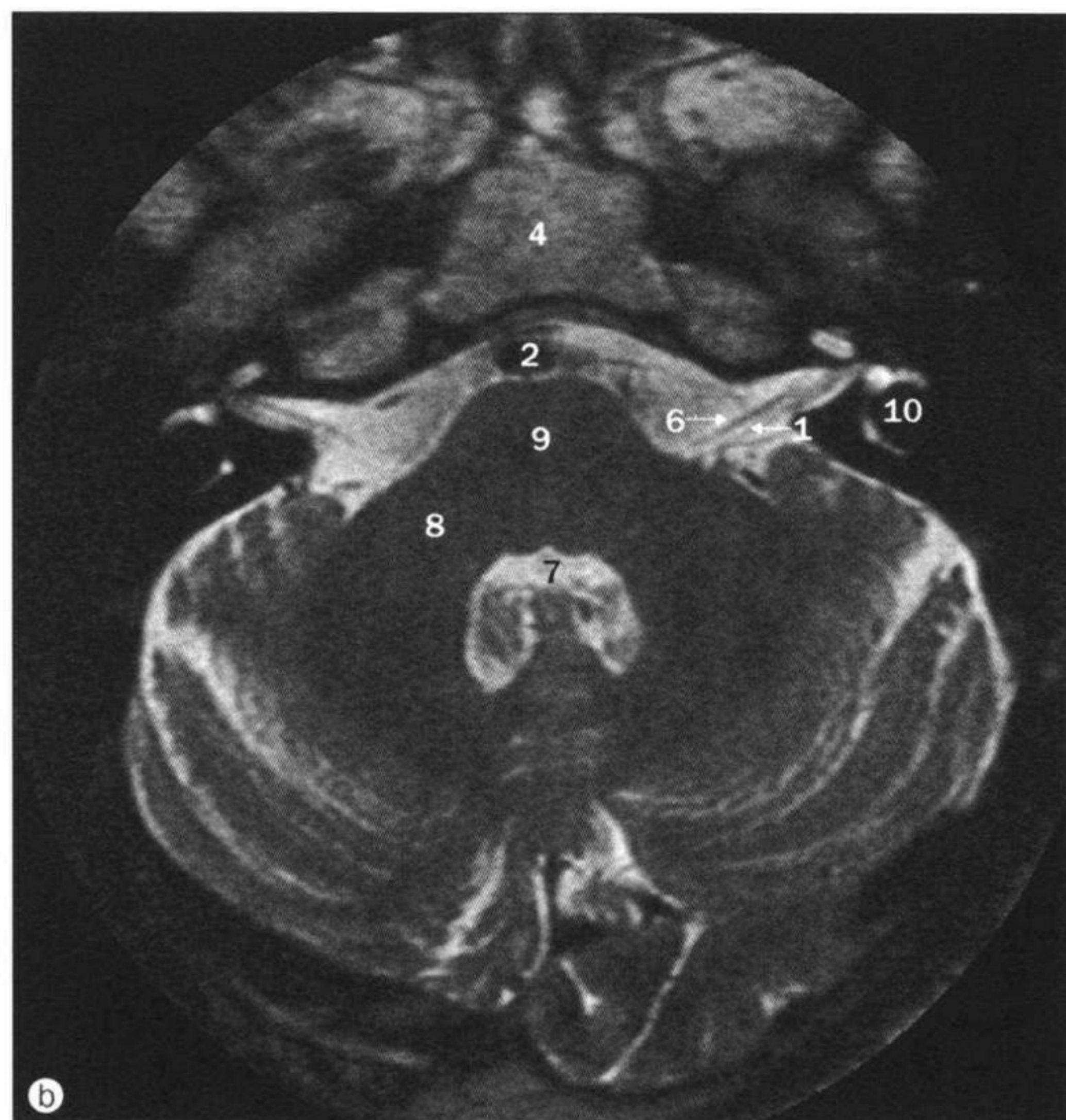
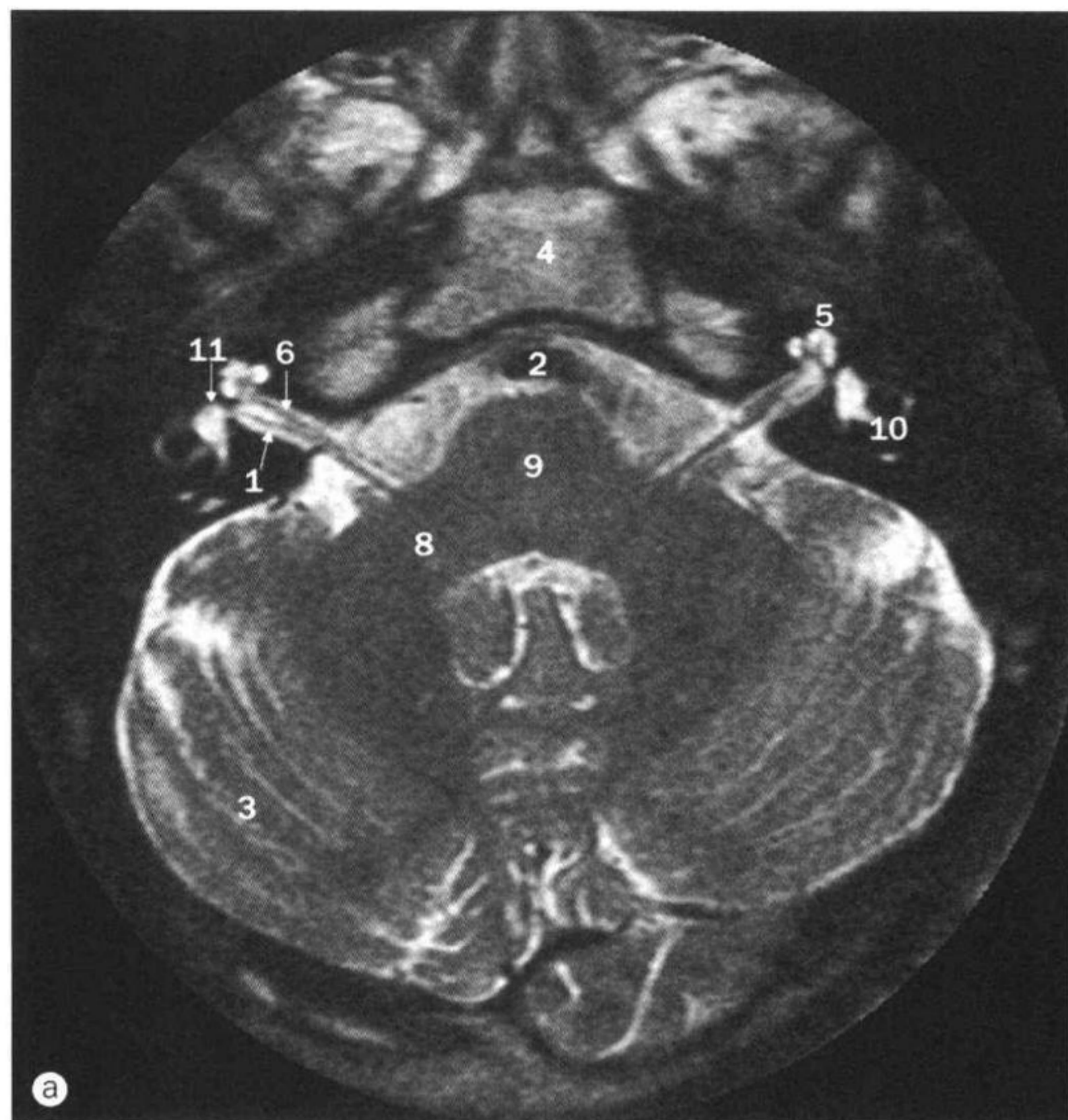
- | | | |
|---------------------------------|---|--|
| 1 垂体前叶 anterior pituitary gland | 10 鞍上池内的视交叉
optic chiasma in suprasellar cistern | 18 中脑四叠体板
quadrigeminal plate of midbrain |
| 2 中脑导水管 aqueduct of Sylvius | 11 视束 optic tract | 19 蝶窦 sphenoidal sinus |
| 3 胼胝体体部 body of corpus callosum | 12 垂体柄 pituitary stalk | 20 胼胝体压部
splenium of corpus callosum |
| 4 斜坡黄骨髓 fat in marrow of clivus | 13 脑桥 pons | 21 鞍上池 suprasellar cistern |
| 5 第4脑室 fourth ventricle | 14 后床突 posterior clinoid process | 22 丘脑 thalamus |
| 6 胼胝体膝 genu of corpus callosum | 15 垂体后叶 posterior pituitary gland | |
| 7 侧脑室 lateral ventricle | 16 桥前池 prepontine cistern | |
| 8 乳头体 mammillary body | 17 四叠体池 quadrigeminal cistern | |
| 9 延髓 medulla oblongata | | |



a~d. 垂体窝，矢状位 MRI，钆增强后。

1 垂体前叶 anterior pituitary gland
 2 中脑导水管 aqueduct of Sylvius
 3 颈内动脉海绵窦段
 cavernous portion of internal carotid artery
 4 海绵窦 cavernous sinus
 5 枕大池 (小脑延髓池)
 cisterna magna (cerebellomedullary cistern)
 6 第4脑室 fourth ventricle
 7 大脑大静脉 great cerebral vein of Galen
 8 脚间池 interpeduncular cistern

9 乳头体 mammillary body
 10 视交叉 optic chiasma
 11 视束 optic tract
 12 垂体柄 pituitary stalk
 13 后床突 posterior clinoid process
 14 垂体后叶 posterior pituitary gland
 15 桥前池 prepontine cistern
 16 鞍上池 suprasellar cistern
 17 丘脑 thalamus



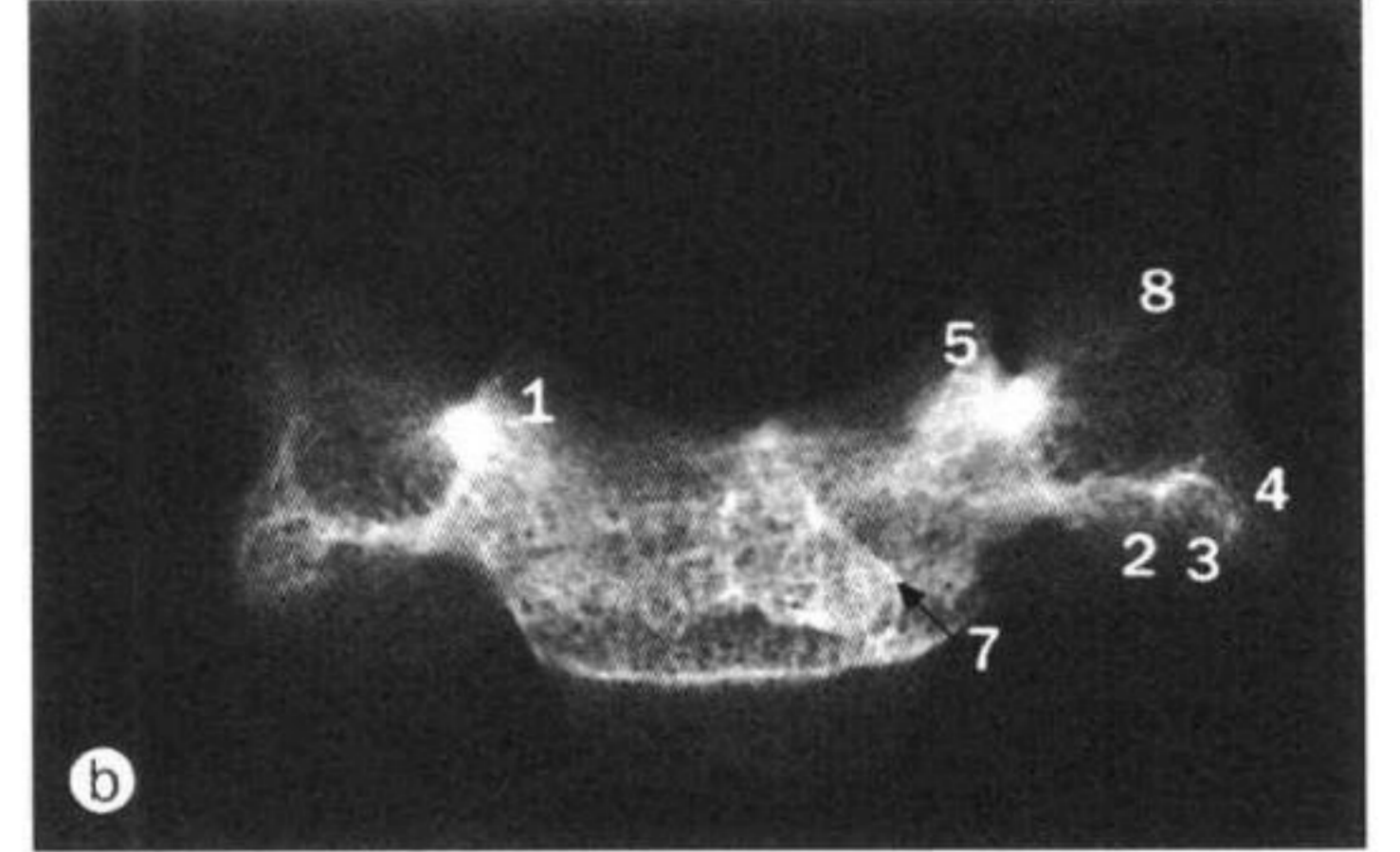
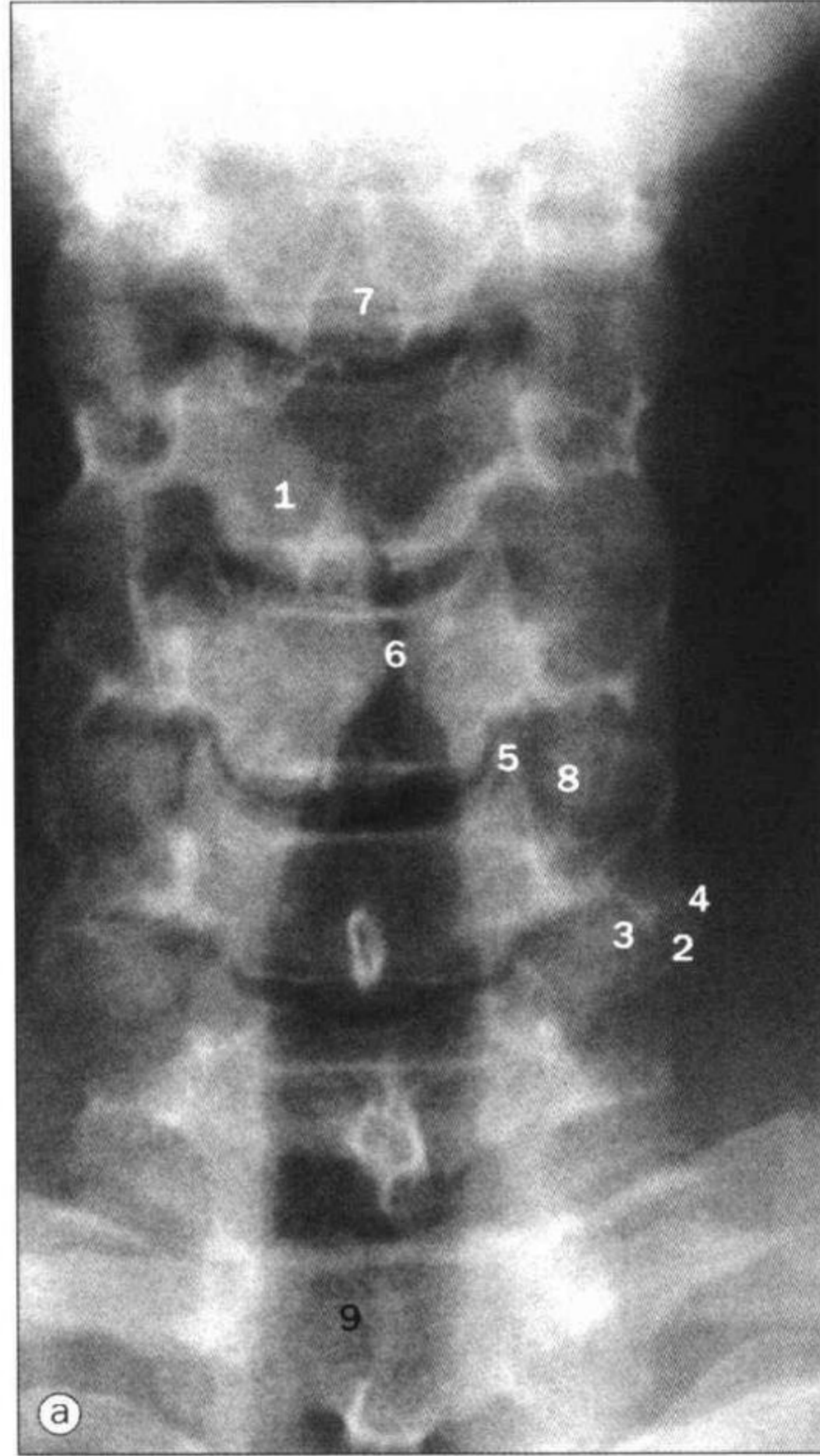
a~b. 脑桥小脑角，轴位 MRI。

- 1 位听神经 (第Ⅷ对脑神经)
auditory nerve (8th cranial nerve)
- 2 基底动脉 basilar artery
- 3 小脑半球 cerebellar hemisphere
- 4 斜坡 clivus
- 5 耳蜗 cochlea
- 6 面神经 (第Ⅶ对脑神经)
facial nerve (7th cranial nerve)
- 7 第4脑室 fourth ventricle
- 8 小脑中脚 middle cerebellar peduncle
- 9 脑桥 pons
- 10 半规管 semi-circular canals
- 11 前庭 vestibule

3

脊柱和脊髓

- 1 椎体 body of vertebra
- 2 下关节突 inferior articular process (facet)
- 3 横突结节间板 intertubercular lamella of transverse process
- 4 横突后结节 posterior tubercle of transverse process
- 5 后外侧钩 posterolateral lip (uncus)
- 6 声带区 region of vocal cords
- 7 棘突 spinous process
- 8 上关节突 superior articular process (facet)
- 9 气管 trachea



a. 颈椎, 前后位 X 线。

b. 颈椎 (标本), 前后位 X 线。

- 1 寰椎前弓 anterior arch of atlas (first cervical vertebra)
- 2 第 4 颈椎横突前结节 anterior tubercle of transverse process of fourth cervical vertebra
- 3 枢椎椎体 body of axis (second cervical vertebra)
- 4 第 4 颈椎下关节突 inferior articular process (facet) of fourth cervical vertebra
- 5 枢椎齿突 odontoid process (dens) of axis (second cervical vertebra)
- 6 寰椎后弓 posterior arch of atlas (first cervical vertebra)
- 7 寰椎后结节 posterior tubercle of atlas (first cervical vertebra)
- 8 第 4 颈椎横突后结节 posterior tubercle of transverse process of fourth cervical vertebra
- 9 寰椎棘突 spinous process of atlas (first cervical vertebra)
- 10 枢椎棘突 spinous process of axis (second cervical vertebra)
- 11 第 4 颈椎棘突 spinous process of fourth cervical vertebra
- 12 第 4 颈椎上关节突 superior articular process (facet) of fourth cervical vertebra

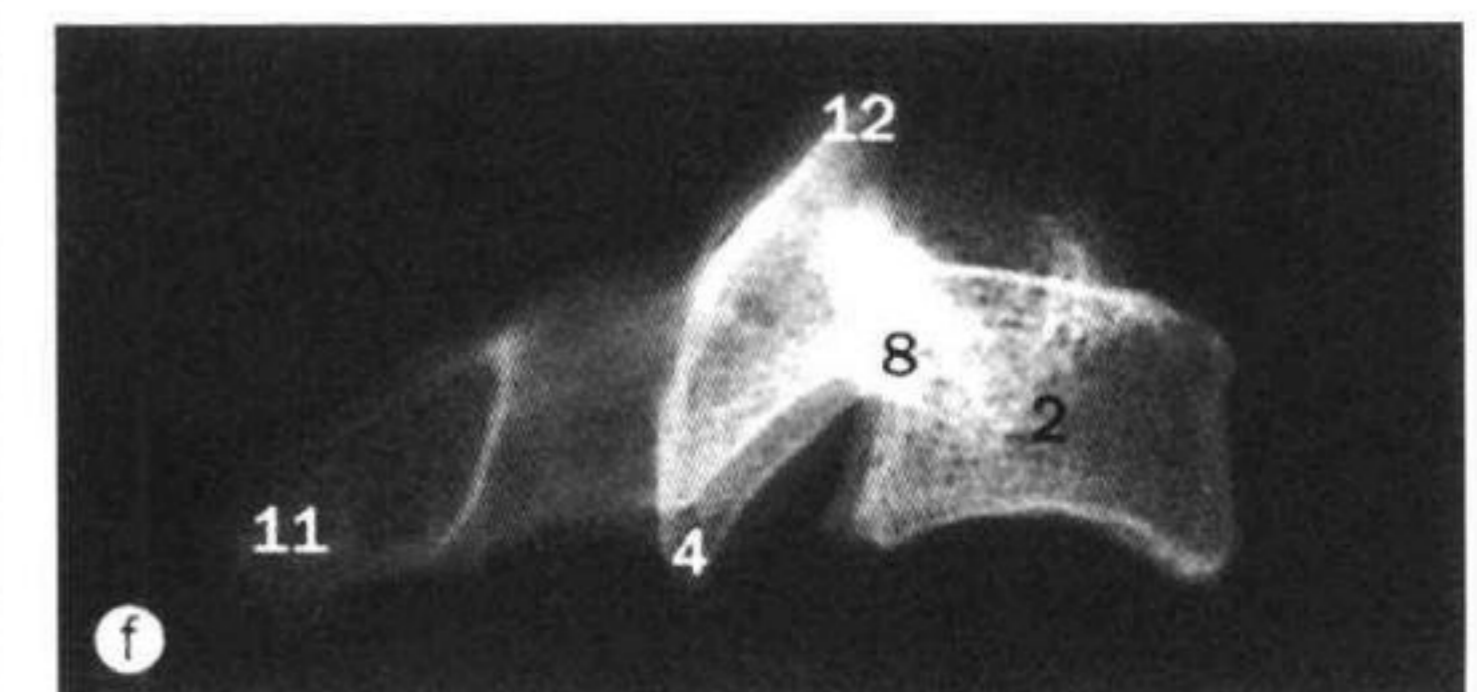
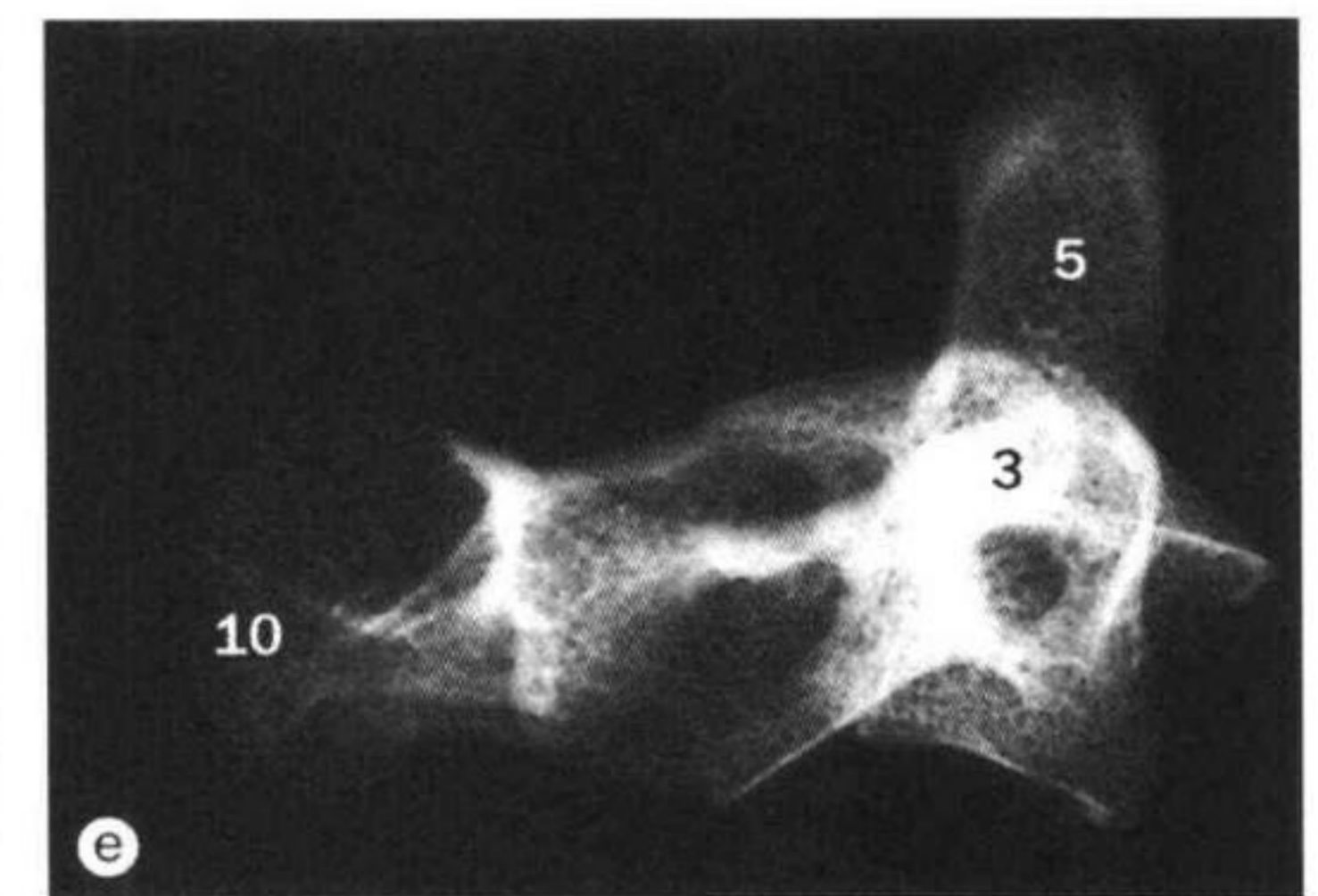
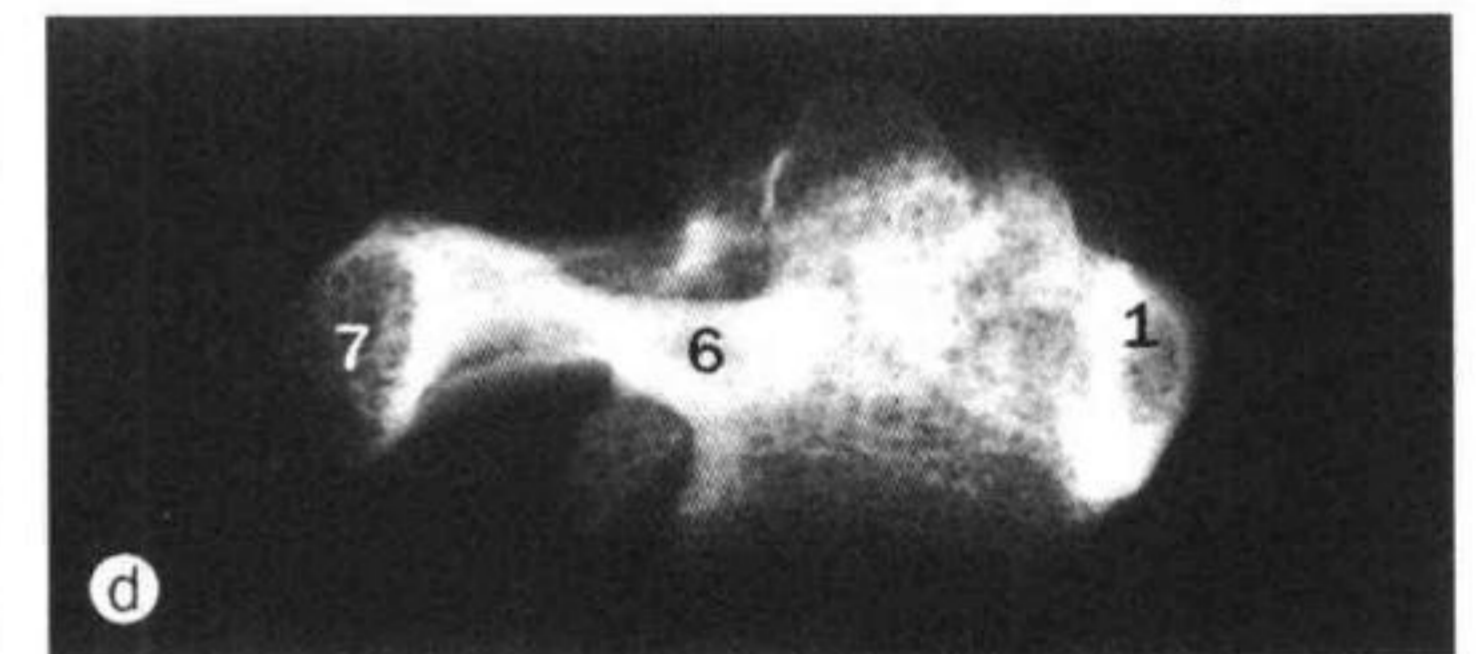


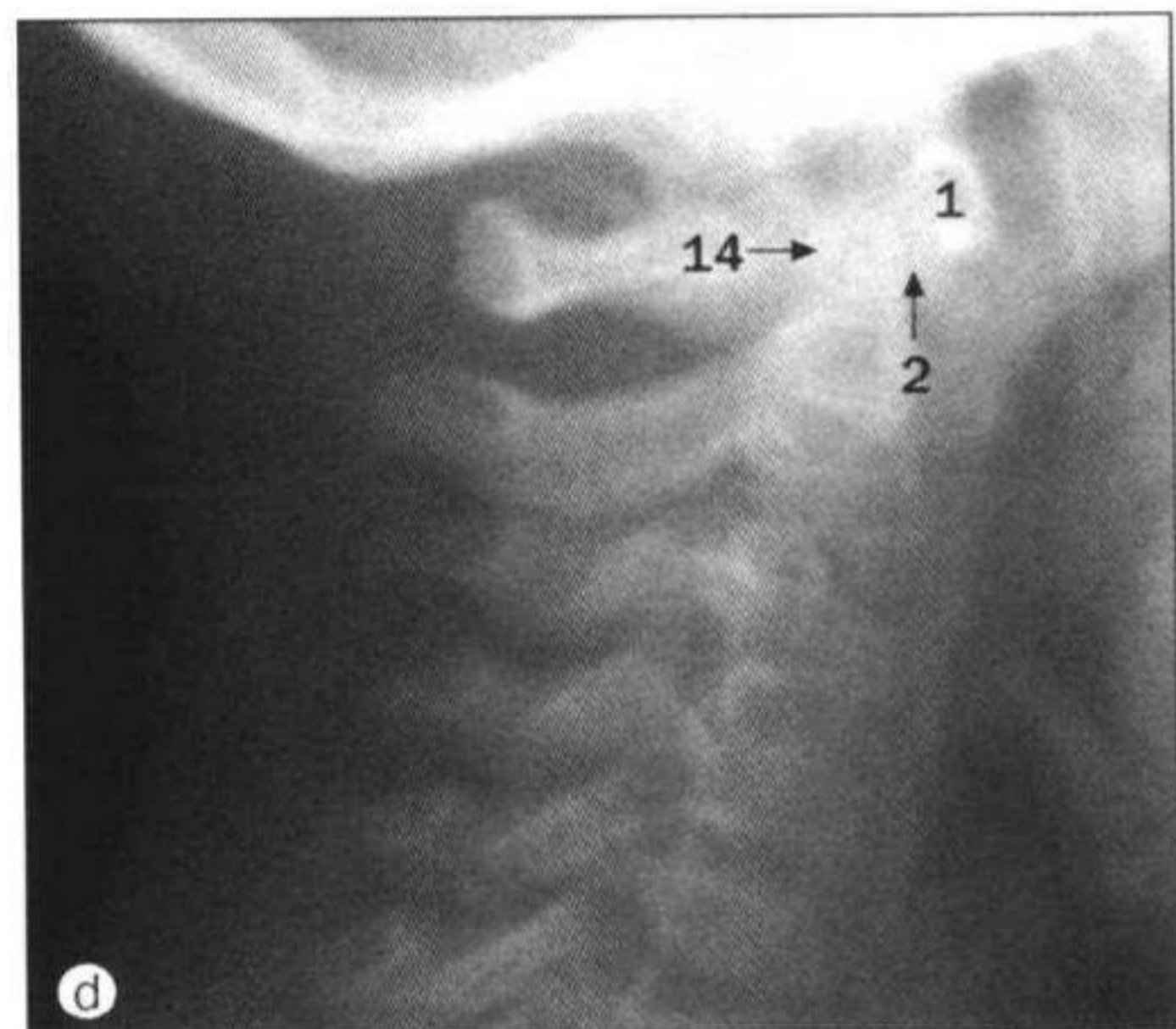
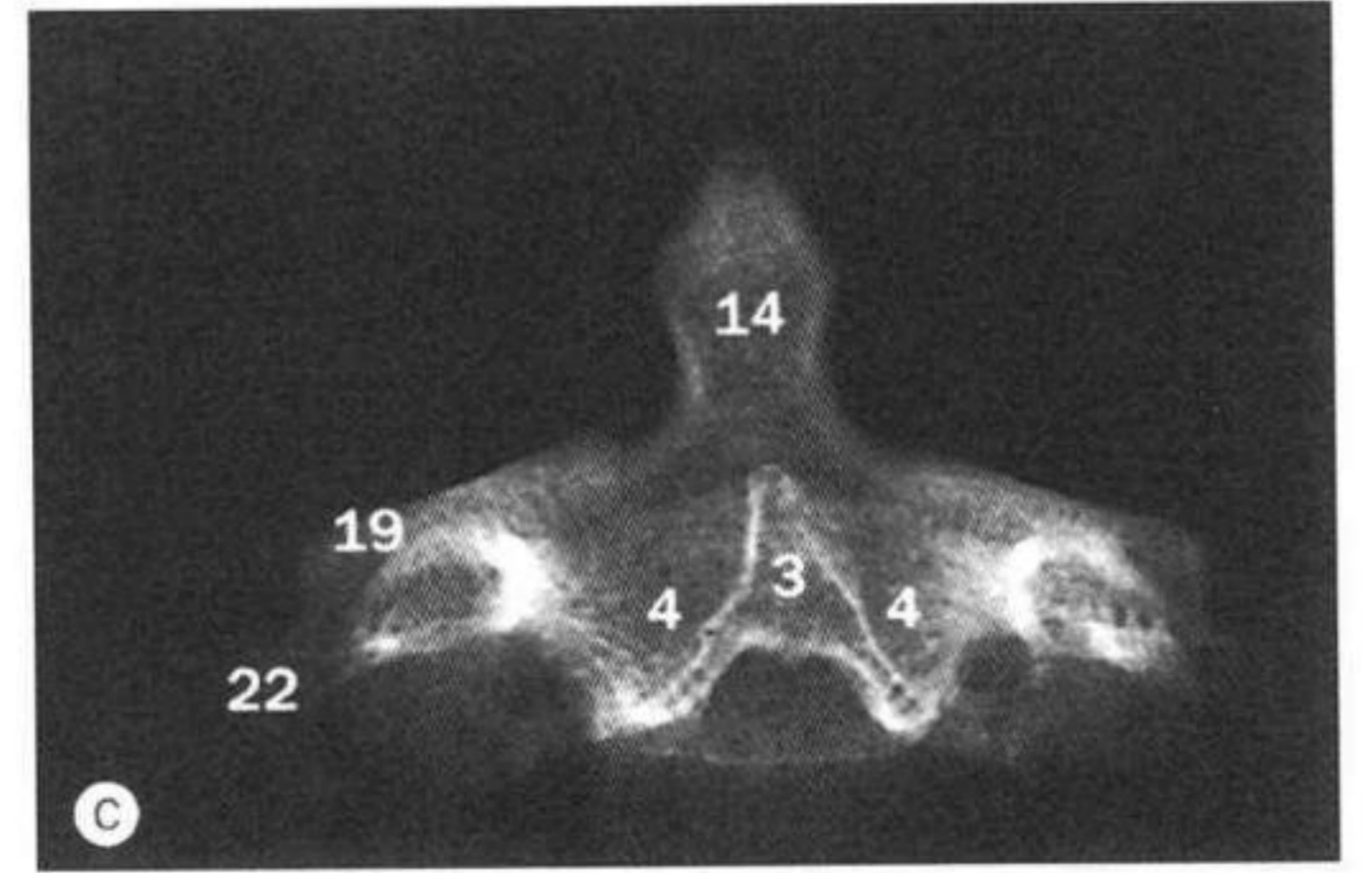
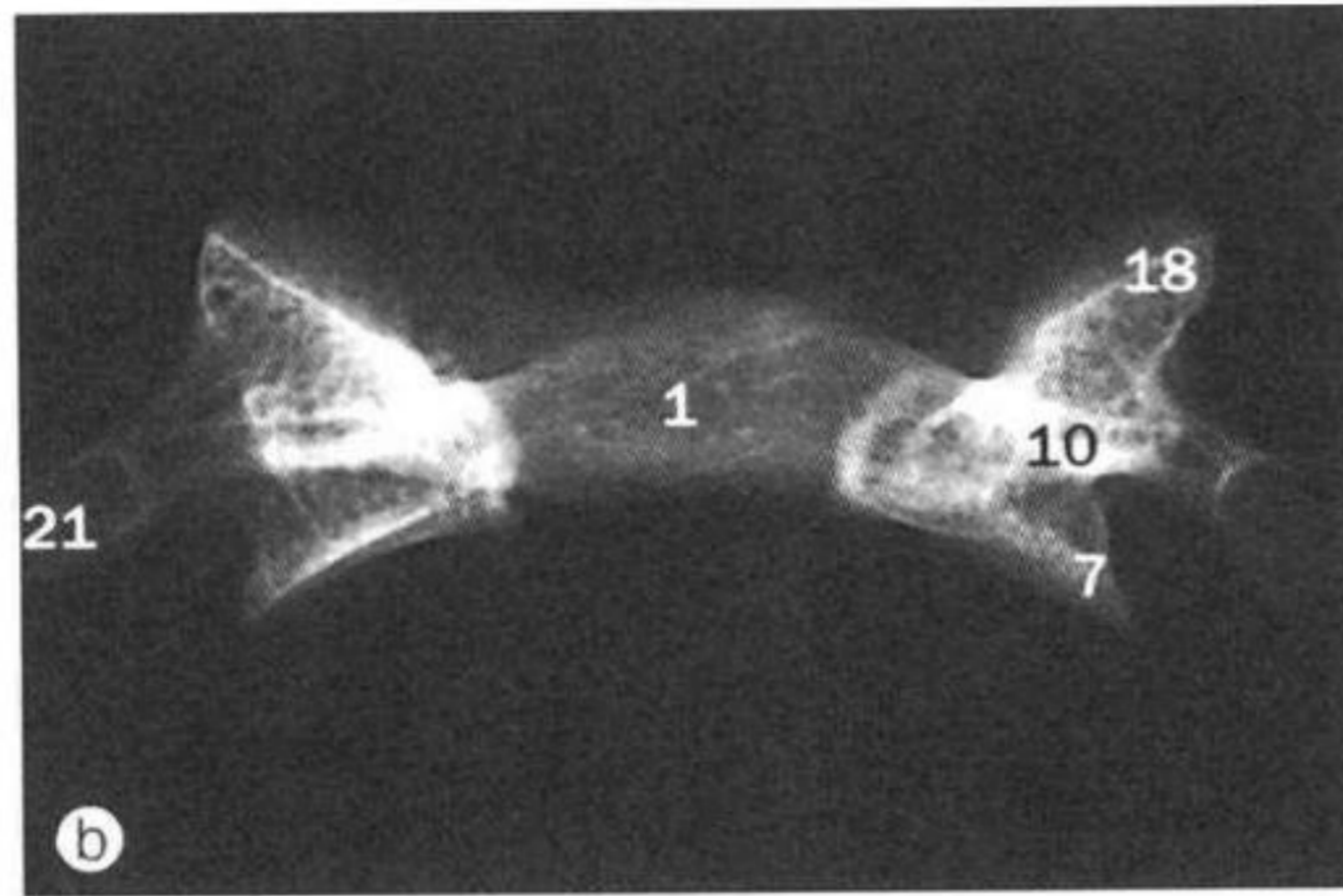
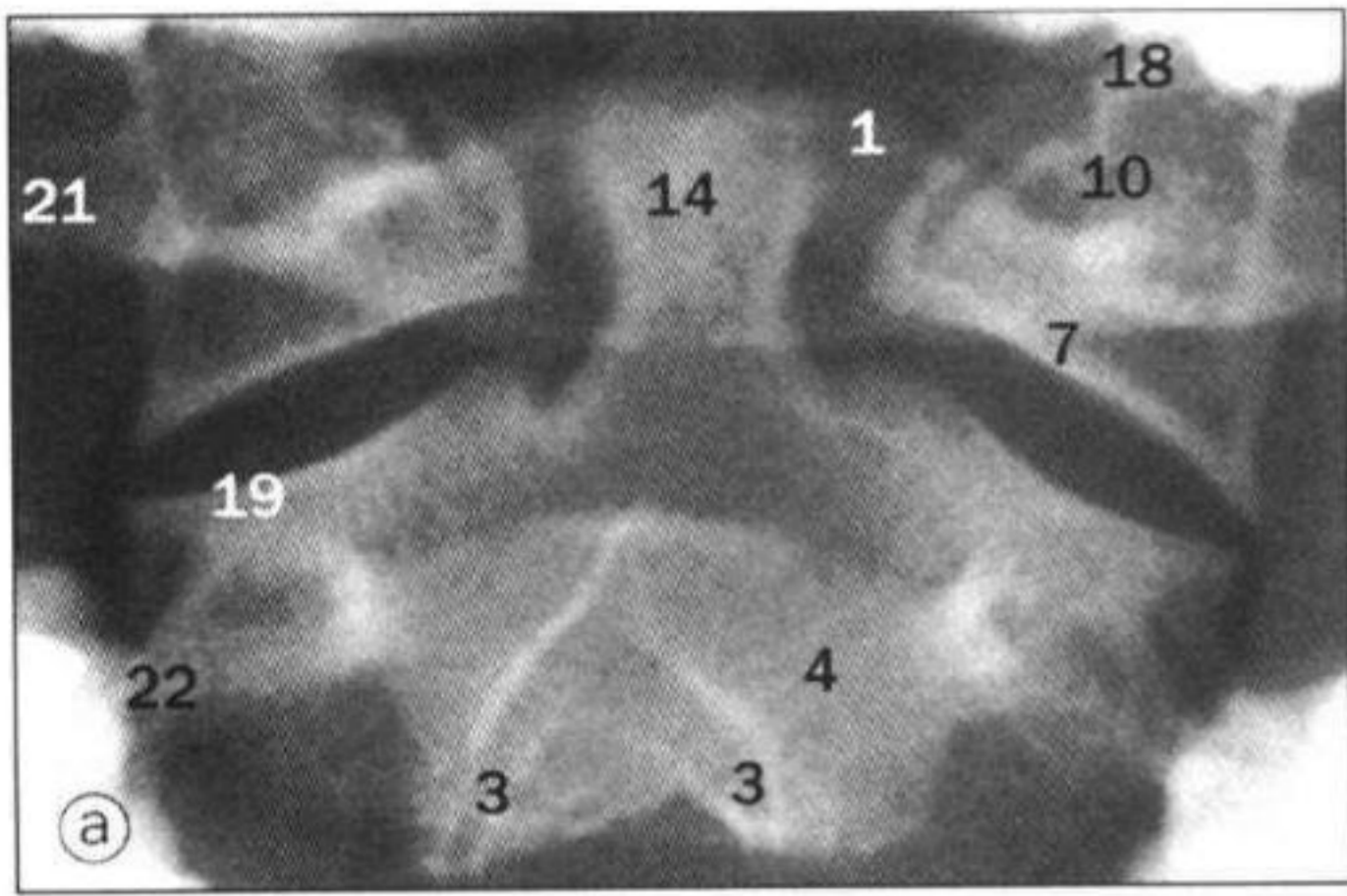
c. 颈椎, 侧位 X 线。

d. 寰椎 (标本), 侧位 X 线。

e. 枢椎 (标本), 侧位 X 线。

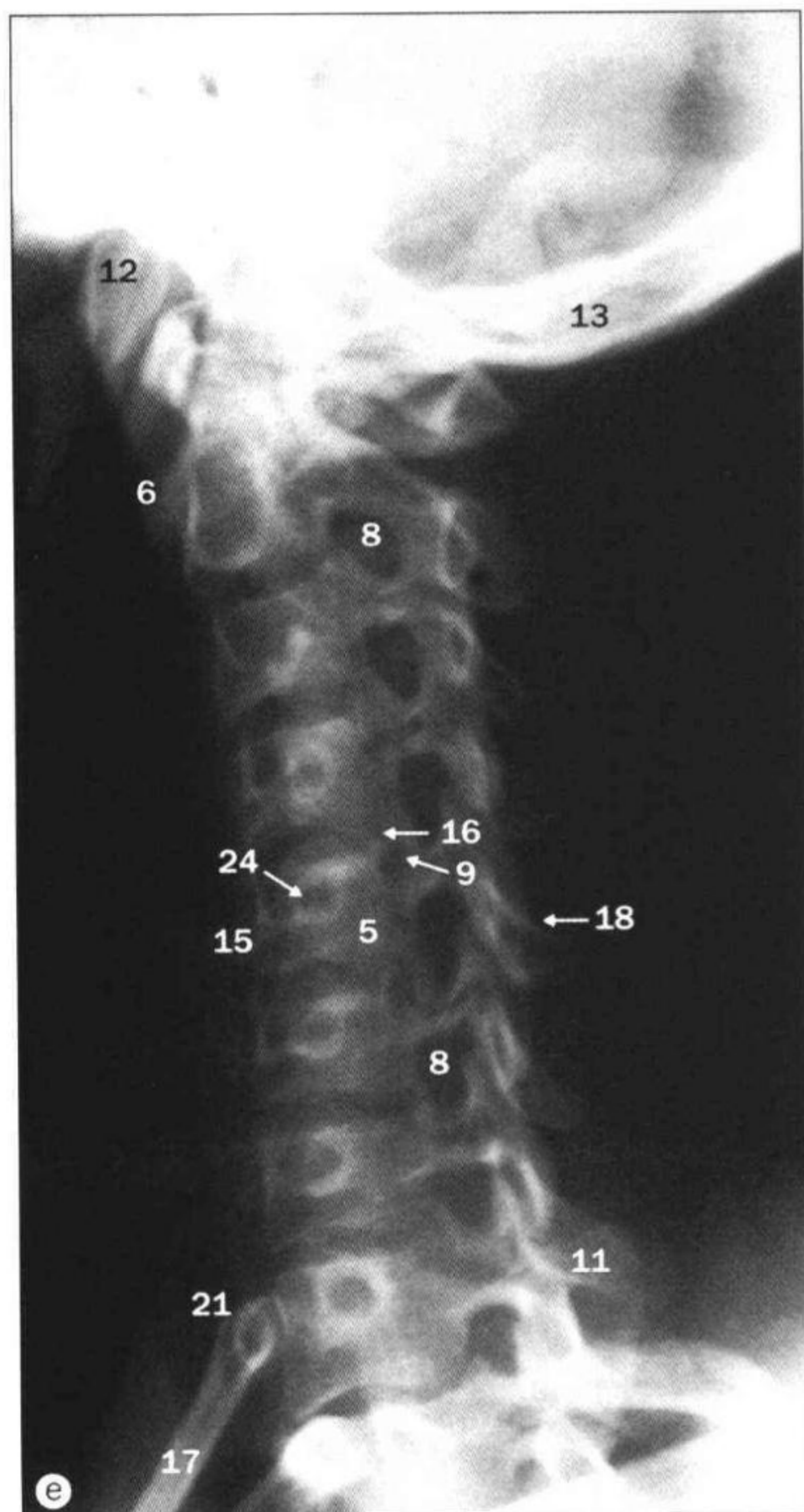
f. 第 4 颈椎 (标本), 侧位 X 线。





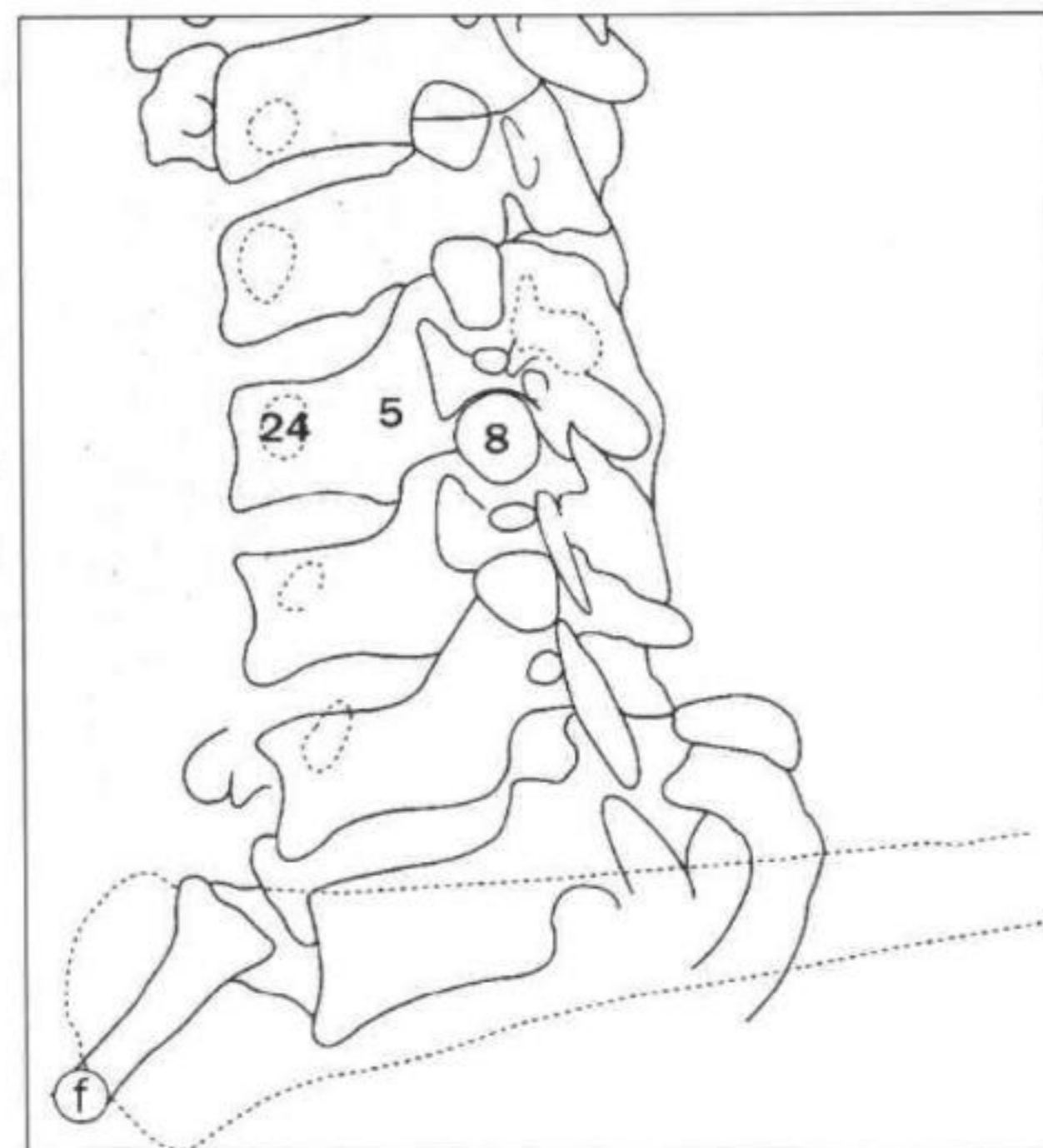
- a. 寰椎和枢椎，张口，前后位 X 线。
- b. 寰椎（标本），前后位 X 线。
- c. 枢椎（标本），前后位 X 线。
- d. 3 岁儿童，颈椎，X 线（本图“2”所示寰枢关节增宽在该年龄属正常）。
- e. 颈椎，斜位 X 线。
- f. 图 e 的线条图。

- 1 寰椎前弓 anterior arch of atlas (first cervical vertebra)
- 2 枢椎的寰枢关节 atlanto-axial joint of axis (second cervical vertebra)
- 3 枢椎棘突分叉 bifid spinous process of axis (second cervical vertebra)
- 4 枢椎椎体 body of axis (second cervical vertebra)
- 5 第 5 颈椎椎体 body of fifth cervical vertebra

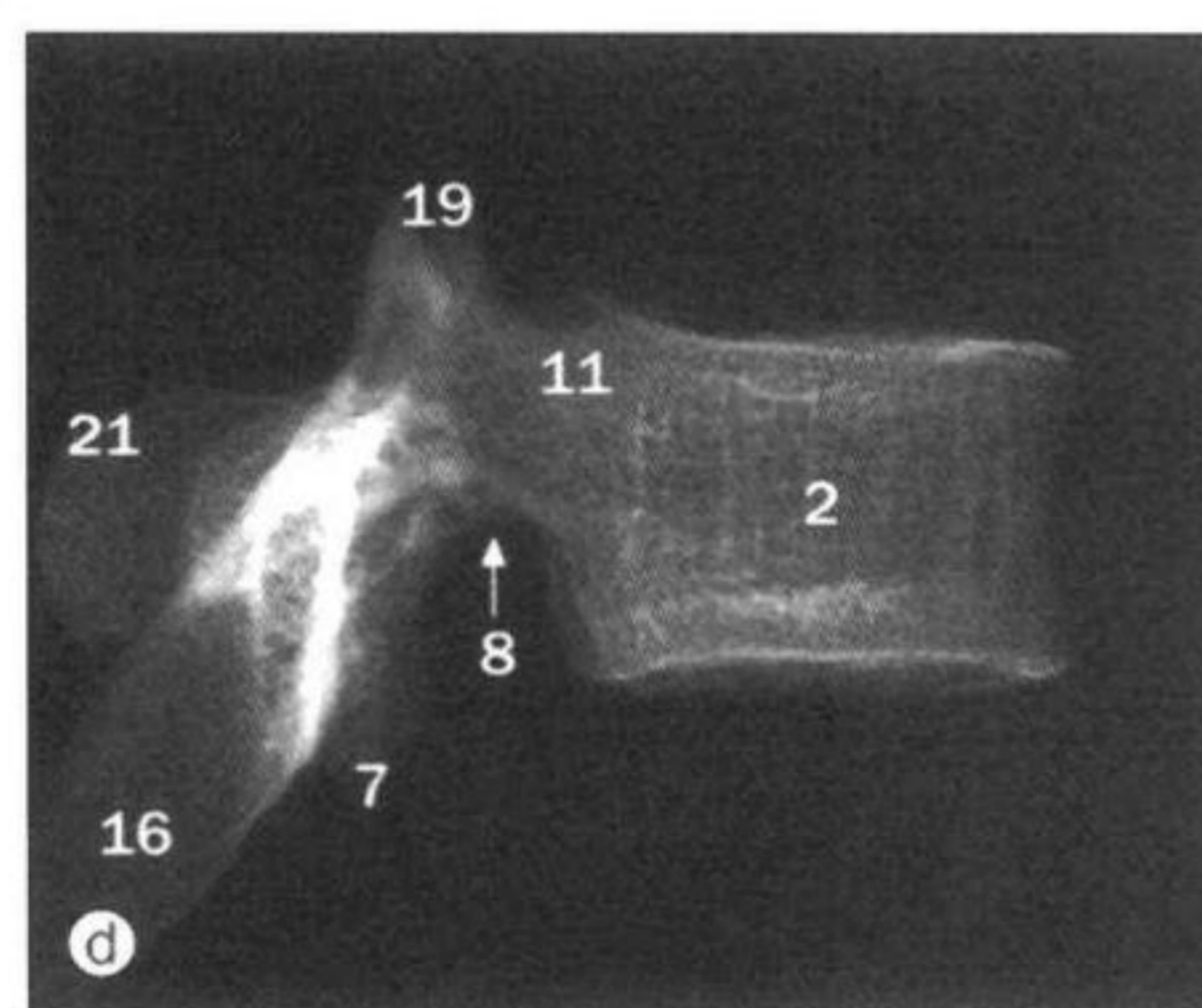
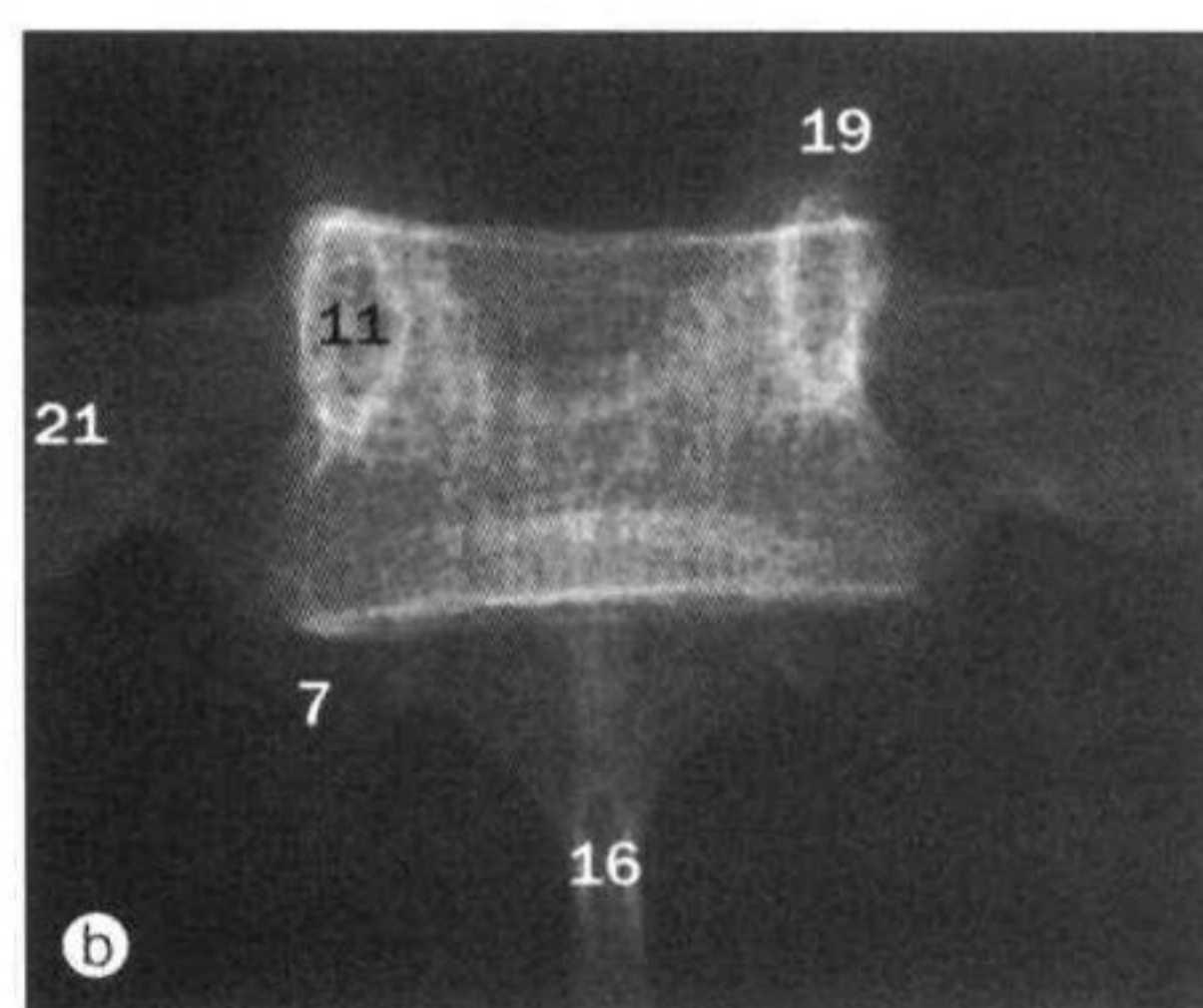
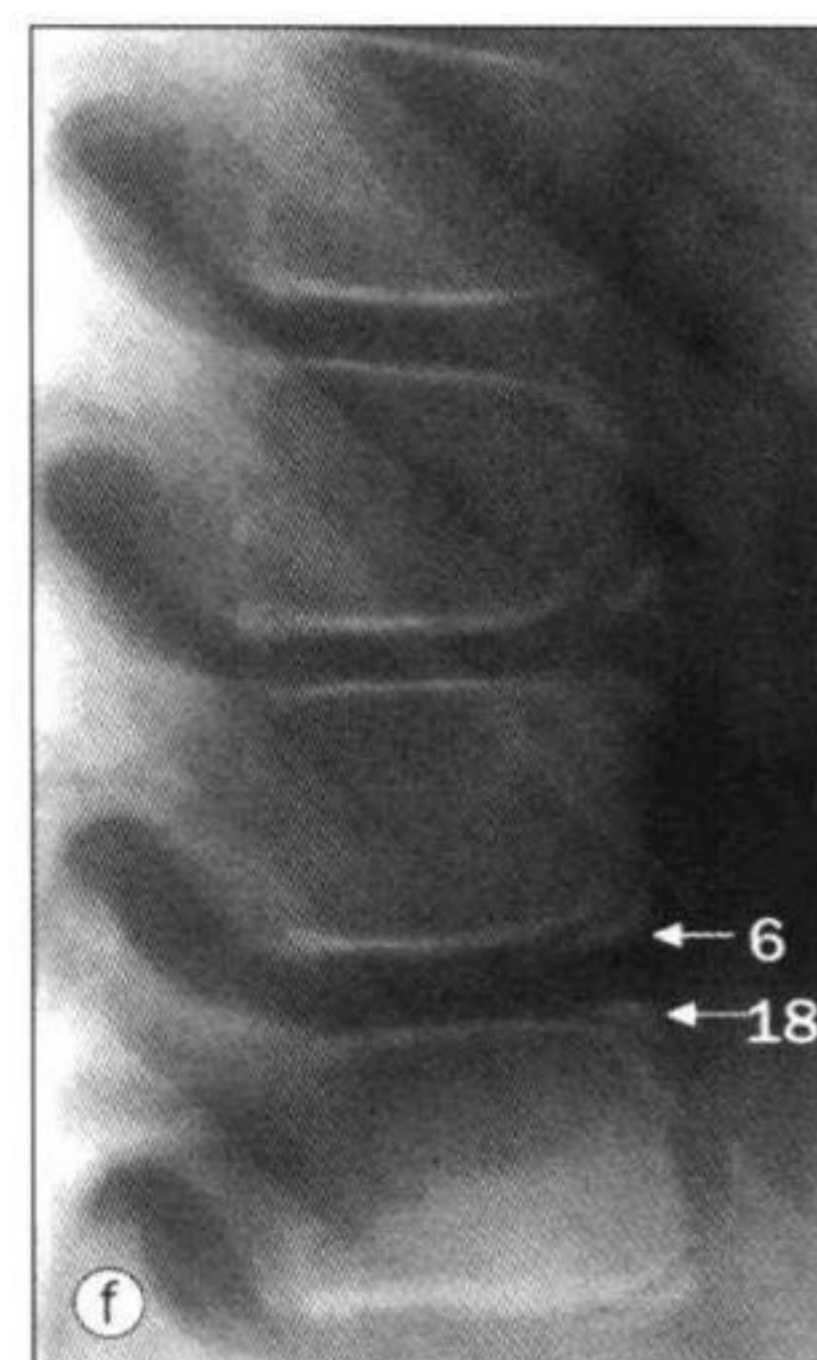
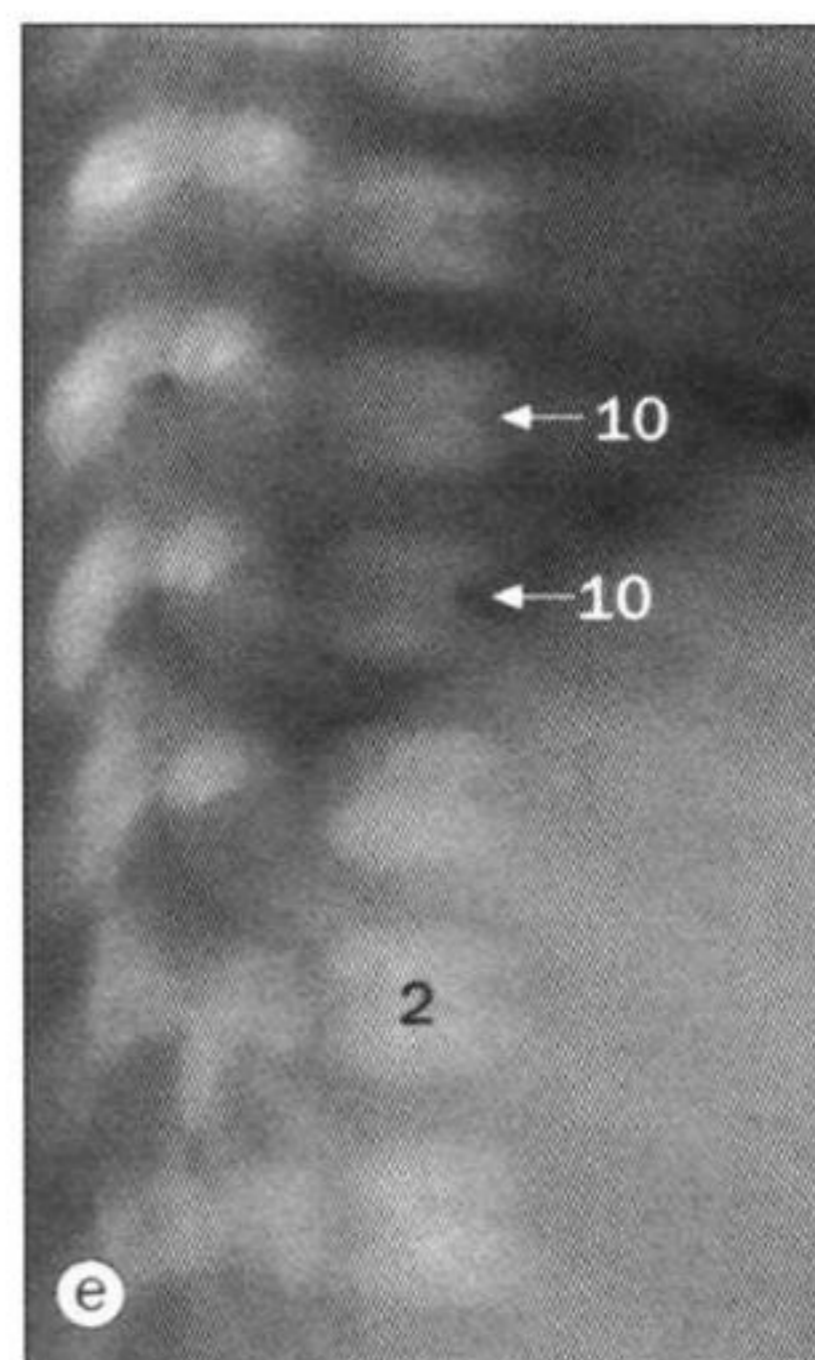
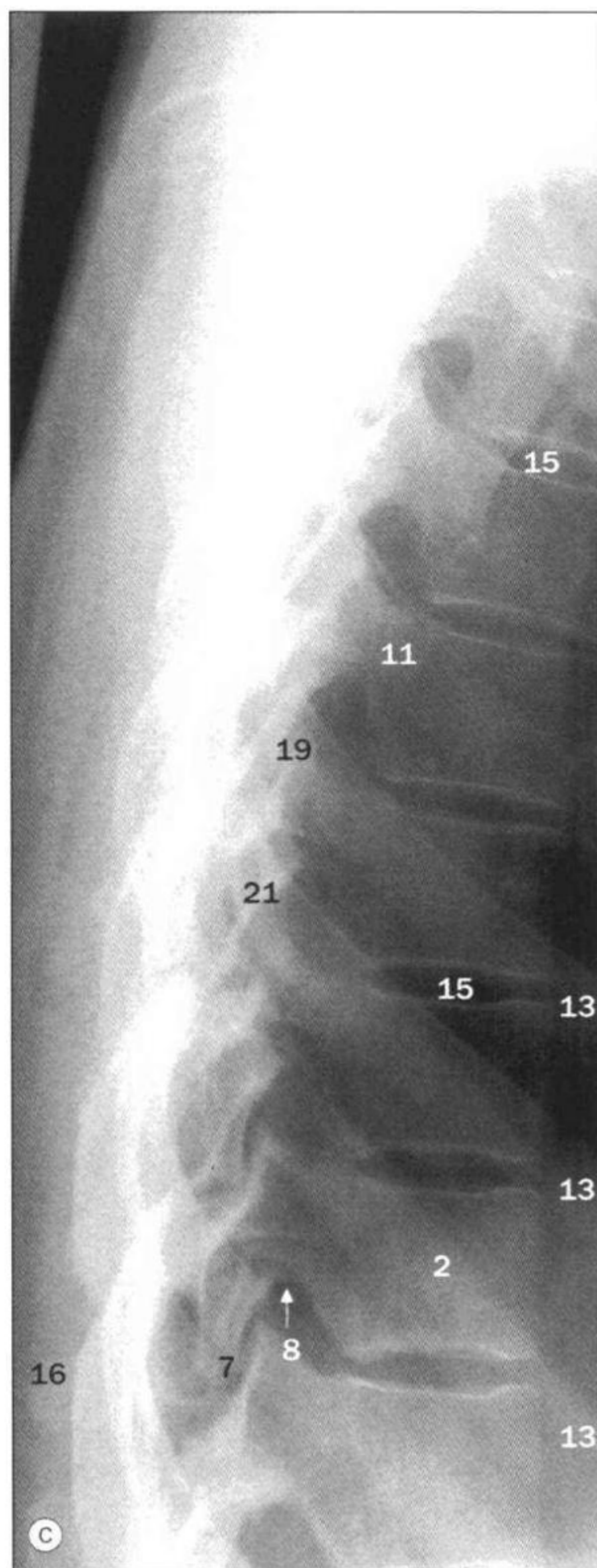
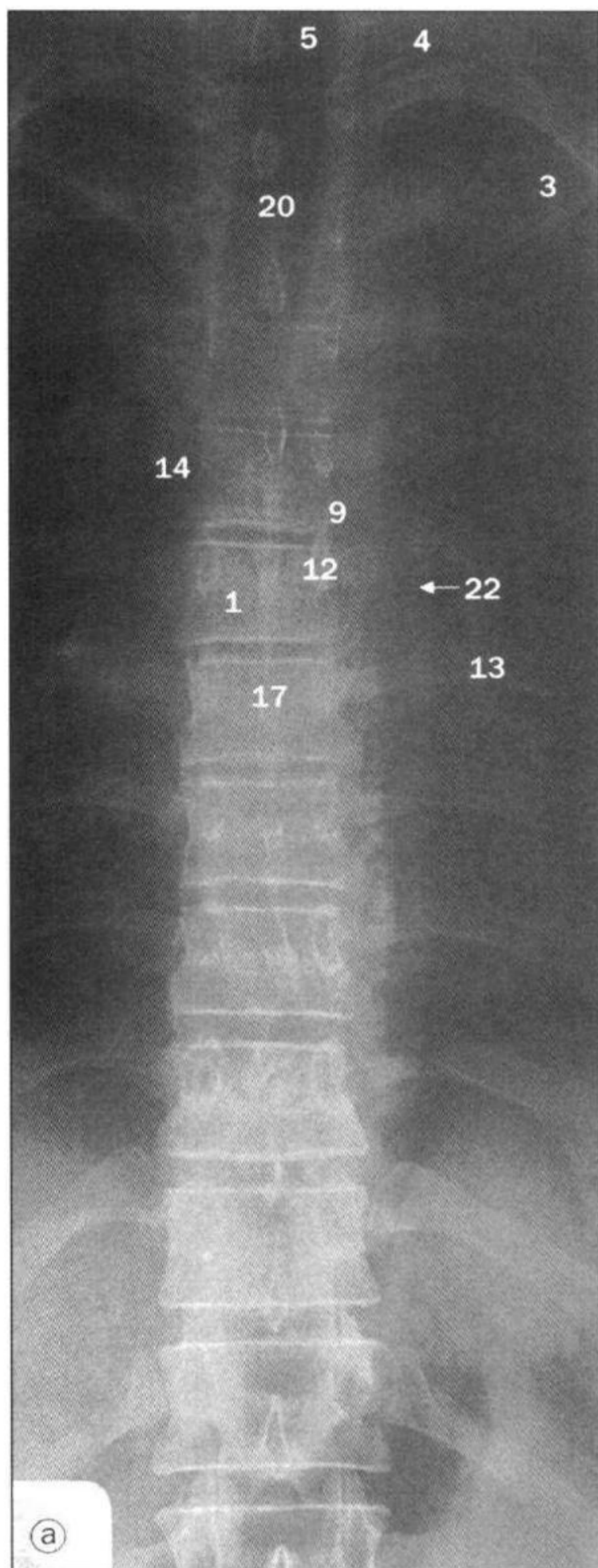


- 6 舌骨 hyoid bone
- 7 寰椎下关节突 inferior articular process (facet) of atlas (first cervical vertebra)
- 8 椎间孔 intervertebral foramen
- 9 第 5 颈椎椎板 lamina of fifth cervical vertebra
- 10 寰椎侧块 lateral mass of atlas (first cervical vertebra)
- 11 左第 1 肋 left first rib
- 12 下颌骨 mandible
- 13 枕骨 occipital bone
- 14 枢椎齿突 odontoid process (dens) of axis (second cervical vertebra)

- 15 第 5 颈椎横突后结节 posterior tubercle of transverse process of fifth cervical vertebra
- 16 第 5 颈椎后外侧钩 posterolateral lip (uncus) of fifth cervical vertebra
- 17 右第 1 肋 right first rib
- 18 第 5 颈椎棘突 spinous process of fifth cervical vertebra
- 19 寰椎上关节突 superior articular process (facet) of atlas (first cervical vertebra)
- 20 枢椎上关节突 superior articular process (facet) of axis (second cervical vertebra)

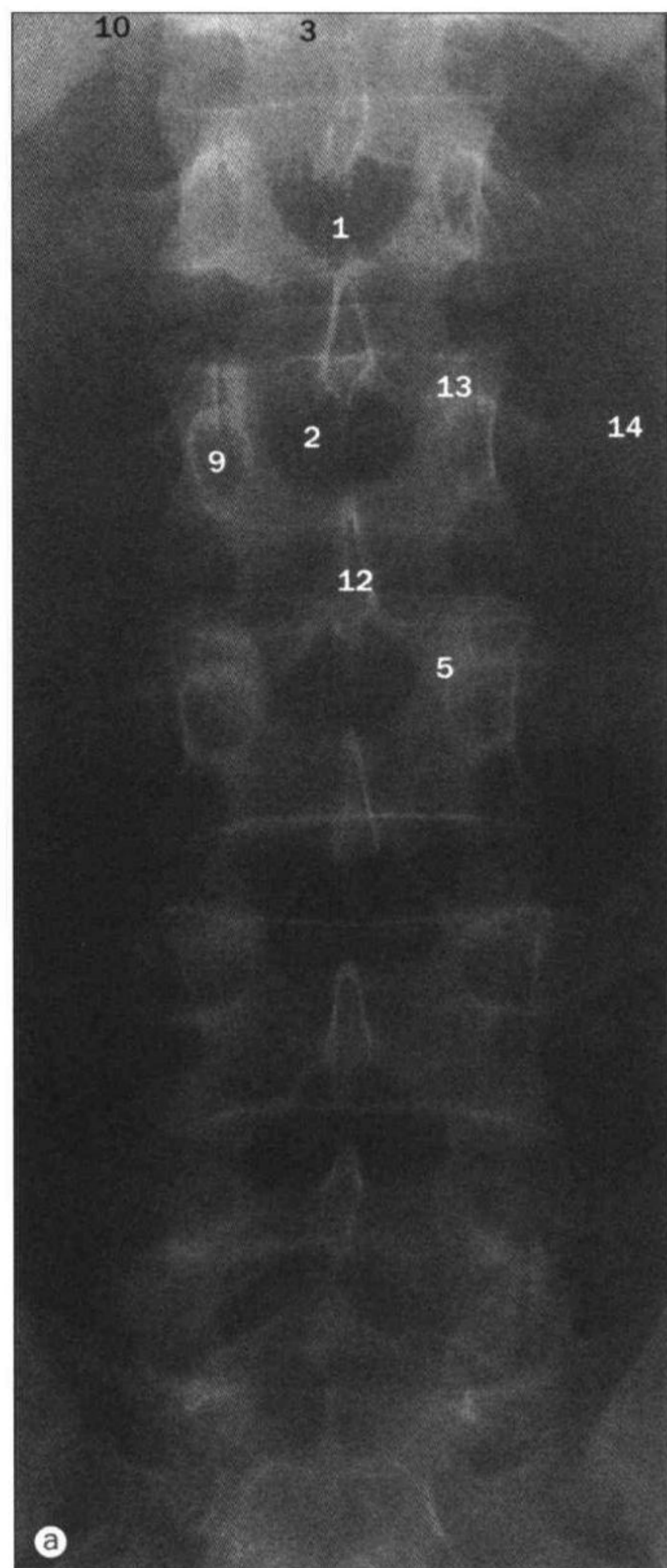


- 21 气管 Trachea
- 22 寰椎横突 transverse process of atlas (first cervical vertebra)
- 23 枢椎横突 transverse process of axis (second cervical vertebra)
- 24 第 5 颈椎横突 transverse process of fifth cervical vertebra



- 1 第6胸椎椎体 body of sixth thoracic vertebra
- 2 椎体 body of vertebra
- 3 锁骨 clavicle
- 4 第1肋 first rib
- 5 第1胸椎 first thoracic vertebra
- 6 椎体骺板下环 inferior annular epiphysial discs for vertebral body
- 7 下关节突 inferior articular process (facet)
- 8 椎下切迹 inferior vertebral notch
- 9 左主支气管 left main bronchus
- 10 新生儿裂 neonatal cleft
- 11 椎弓根 pedicle
- 12 第6胸椎椎弓根 pedicle of sixth thoracic vertebra
- 13 肋 ribs
- 14 右主支气管 right main bronchus
- 15 椎间盘 site of intervertebral disc
- 16 棘突 spinous process
- 17 第6胸椎棘突 spinous process of sixth thoracic vertebra
- 18 椎体骺板上环 superior annular epiphysial discs for vertebral body
- 19 上关节突 superior articular process (facet)
- 20 气管 trachea
- 21 横突 transverse process
- 22 第6胸椎横突 transverse process of sixth thoracic vertebra

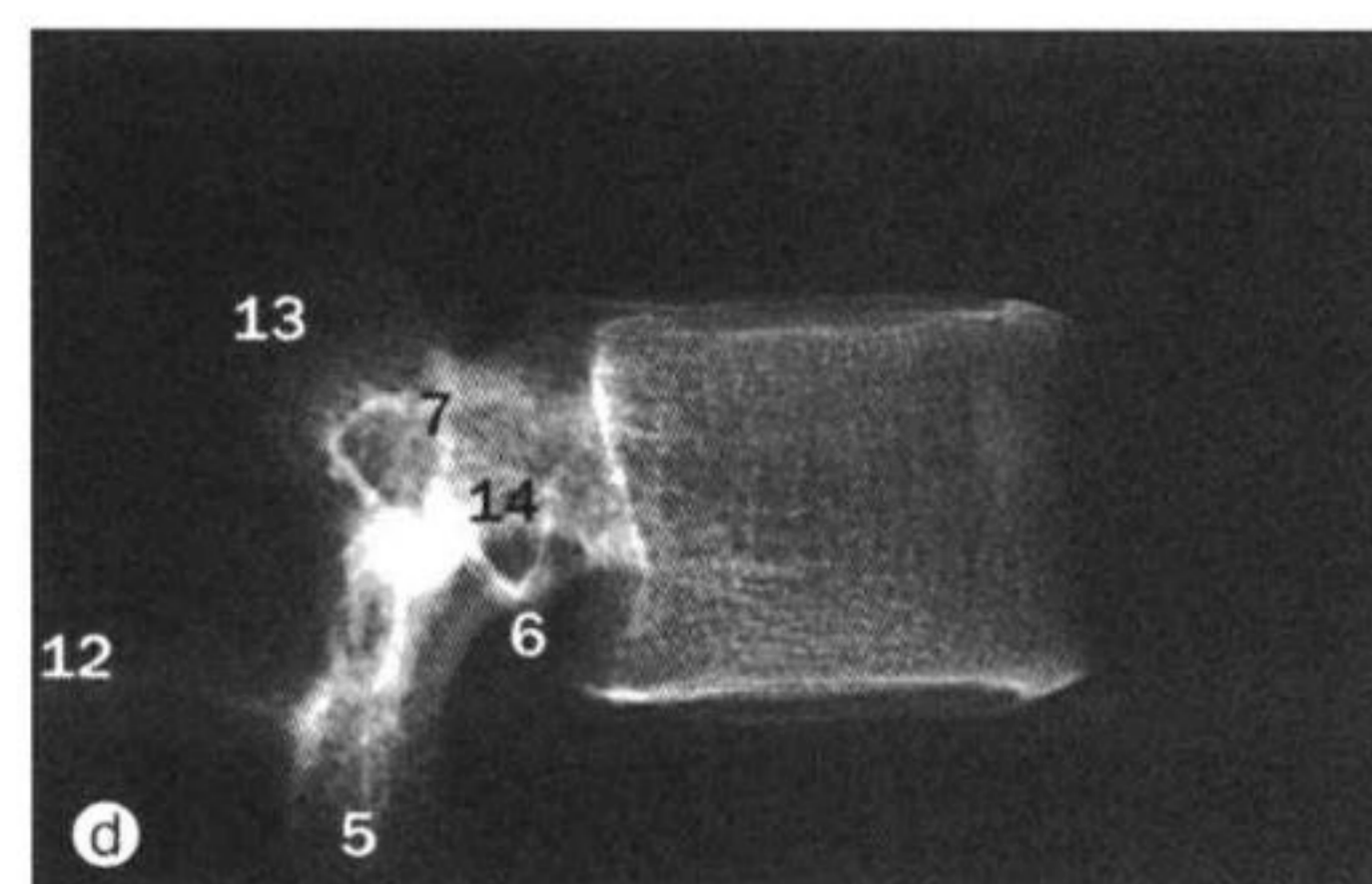
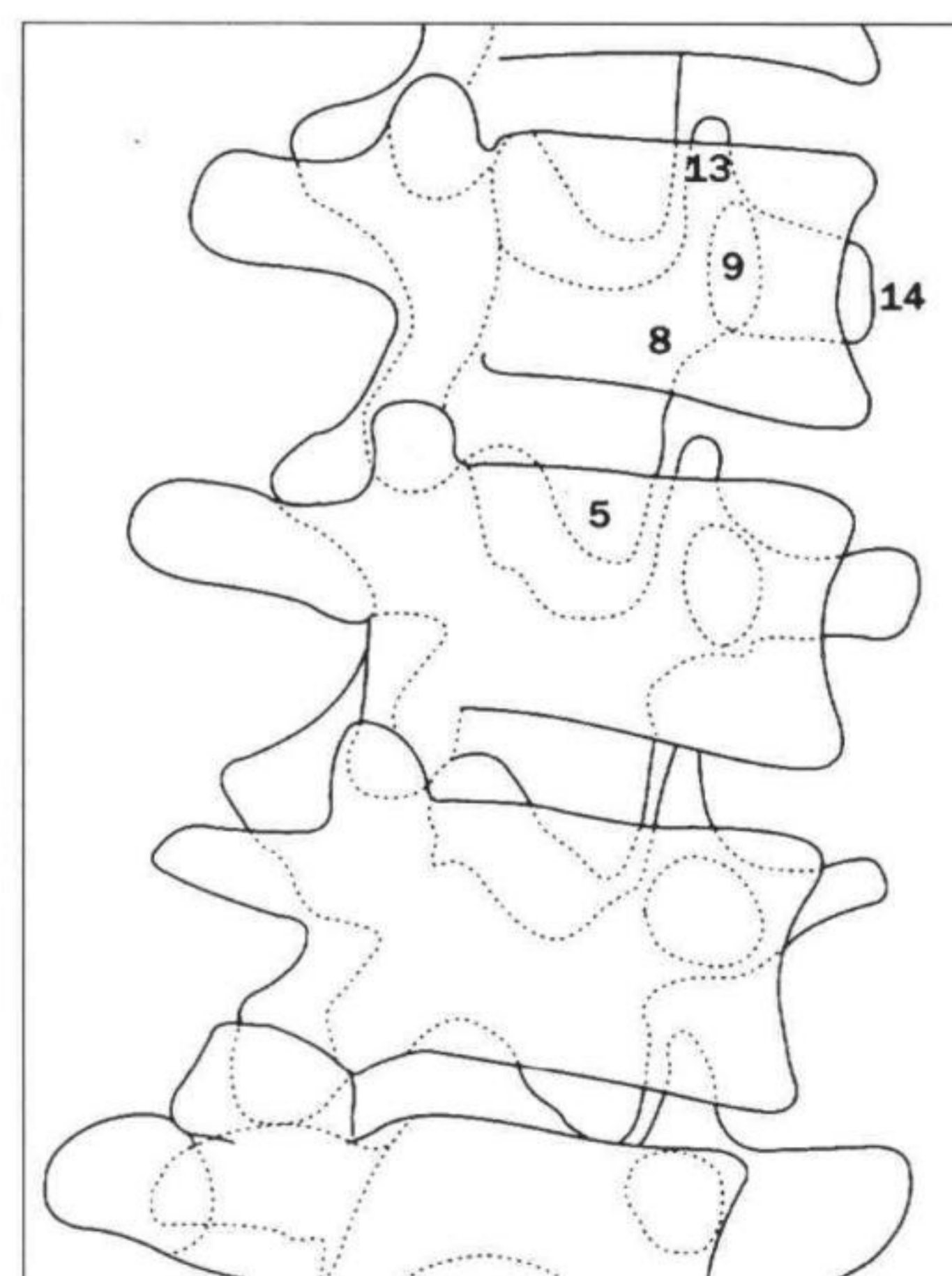
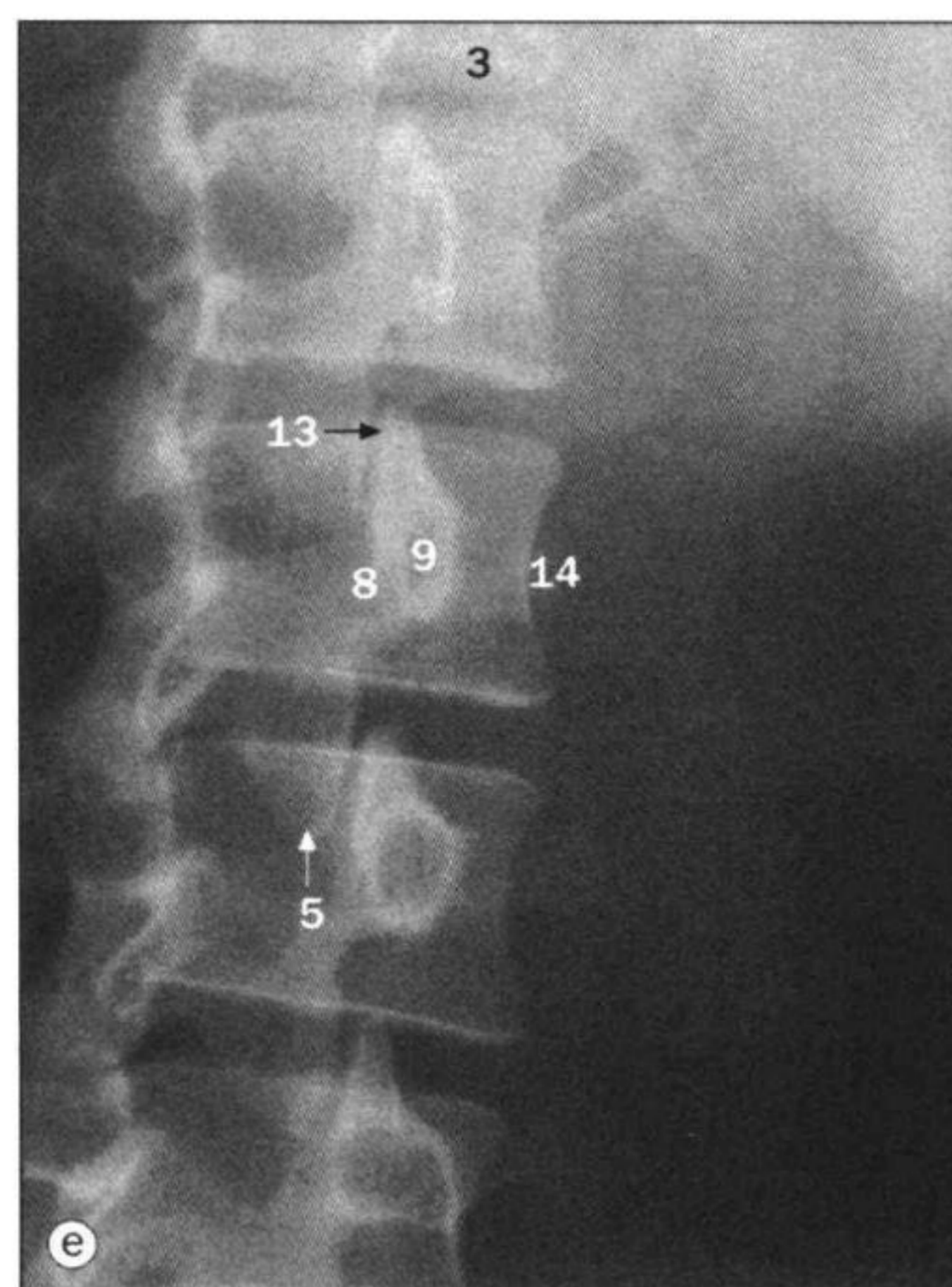
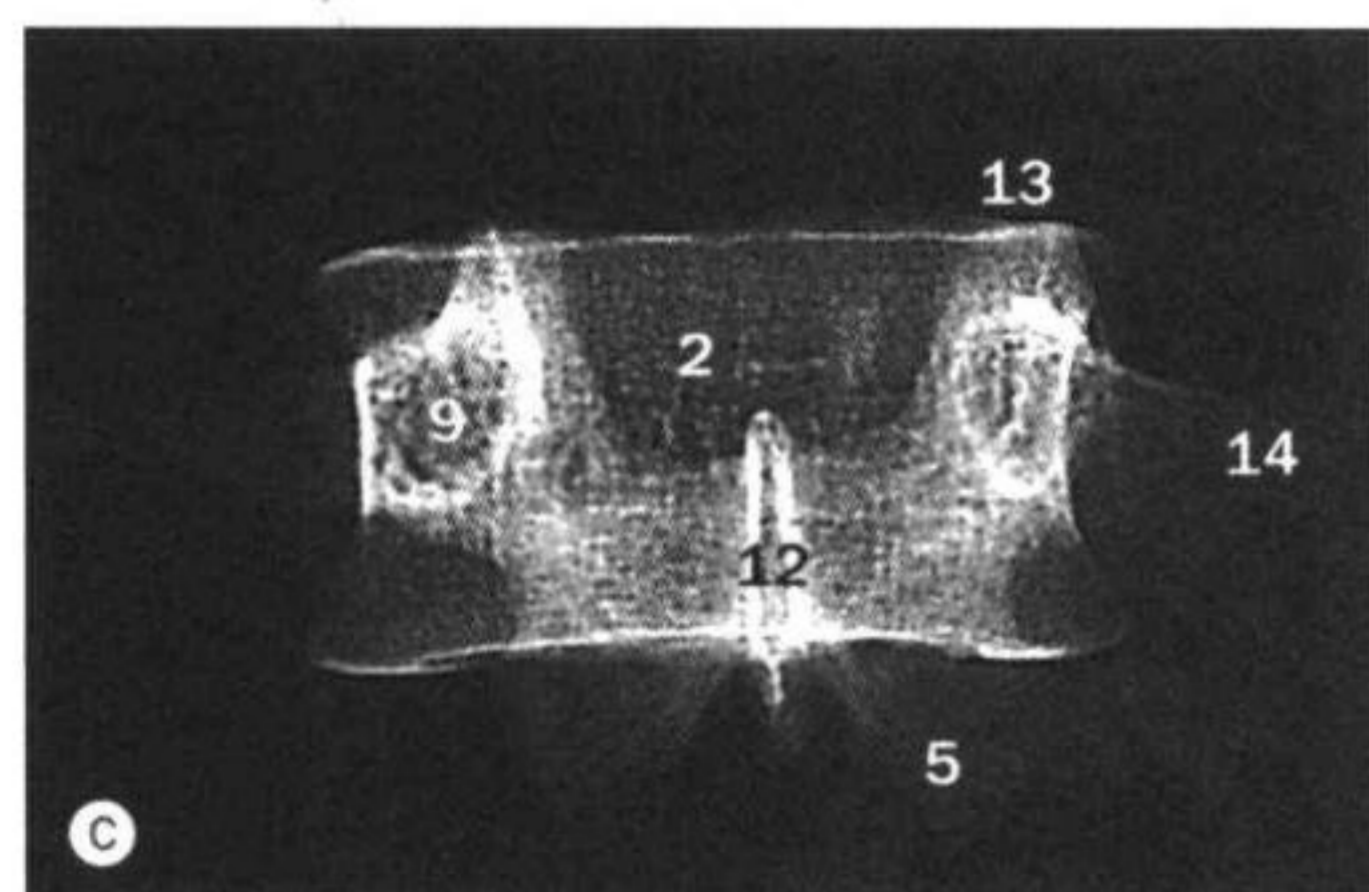
a. 胸椎，前后位 X 线。
 b. 胸椎（标本），前后位 X 线。
 c. 胸椎（标本），侧位 X 线。
 d. 第6胸椎，侧位 X 线。
 e. 7天新生儿，胸椎，侧位 X 线。
 f. 12岁儿童，胸椎，侧位 X 线。



- 1 第1腰椎椎体
body of first lumbar vertebra
- 2 第2腰椎椎体
body of second lumbar vertebra
- 3 第12胸椎椎体
body of twelfth thoracic vertebra
- 4 第5腰椎 fifth lumbar vertebra
- 5 第2腰椎下关节突
inferior articular process (facet) of second lumbar vertebra
- 6 第2腰椎椎下切迹
inferior vertebral notch of second lumbar vertebra
- 7 第2腰椎乳突
mammillary process of second lumbar vertebra
- 8 椎弓峡部 pars interarticularis
- 9 第2腰椎椎弓根
pedicle of second lumbar vertebra
- 10 右第12肋 right twelfth rib
- 11 骶岬 sacral promontory
- 12 第2腰椎棘突 spinous process of second lumbar vertebra
- 13 第2腰椎上关节突 superior articular process (facet) of second lumbar vertebra
- 14 第2腰椎横突 transverse process of second lumbar vertebra

a. 腰椎，前后位 X 线。

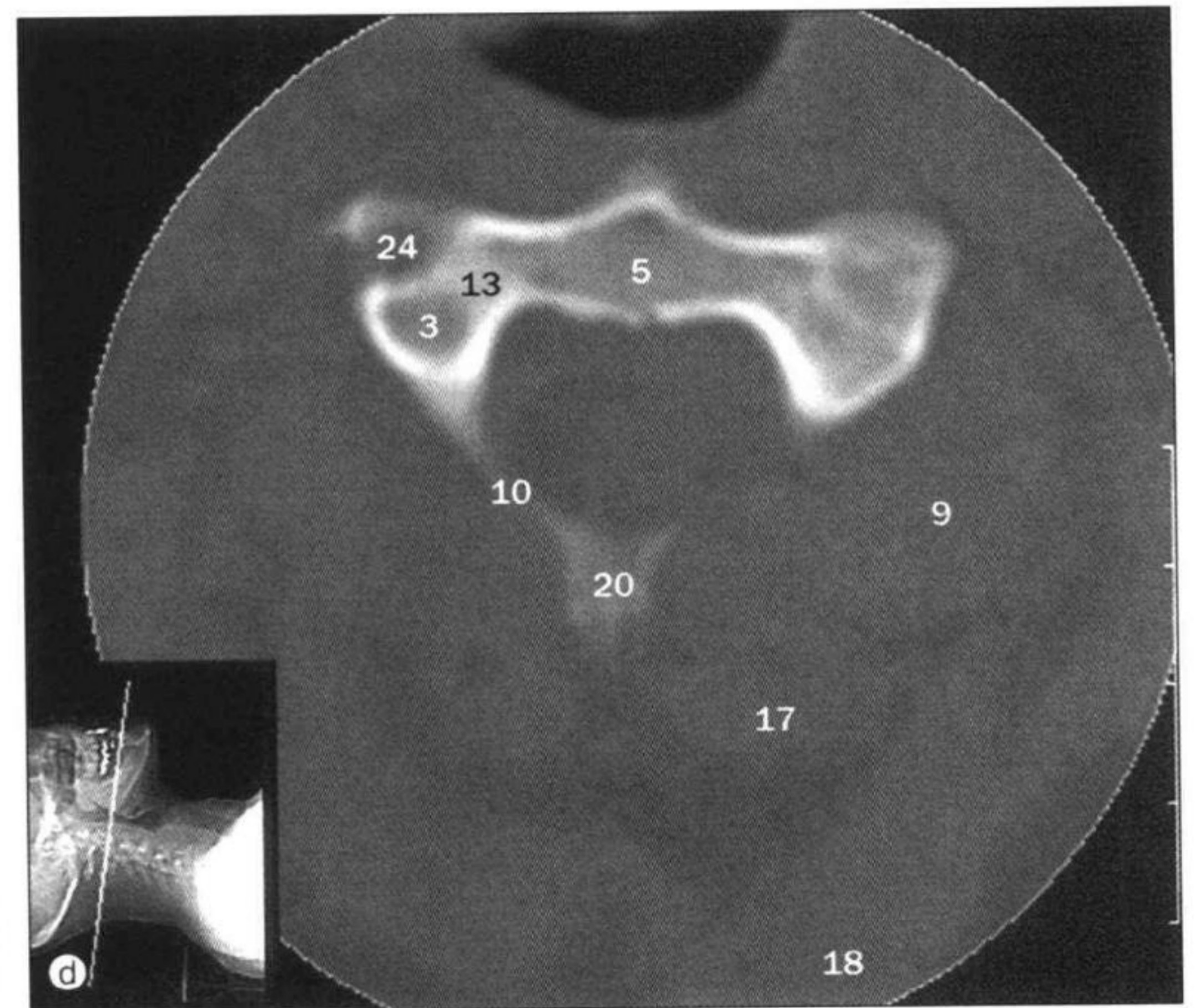
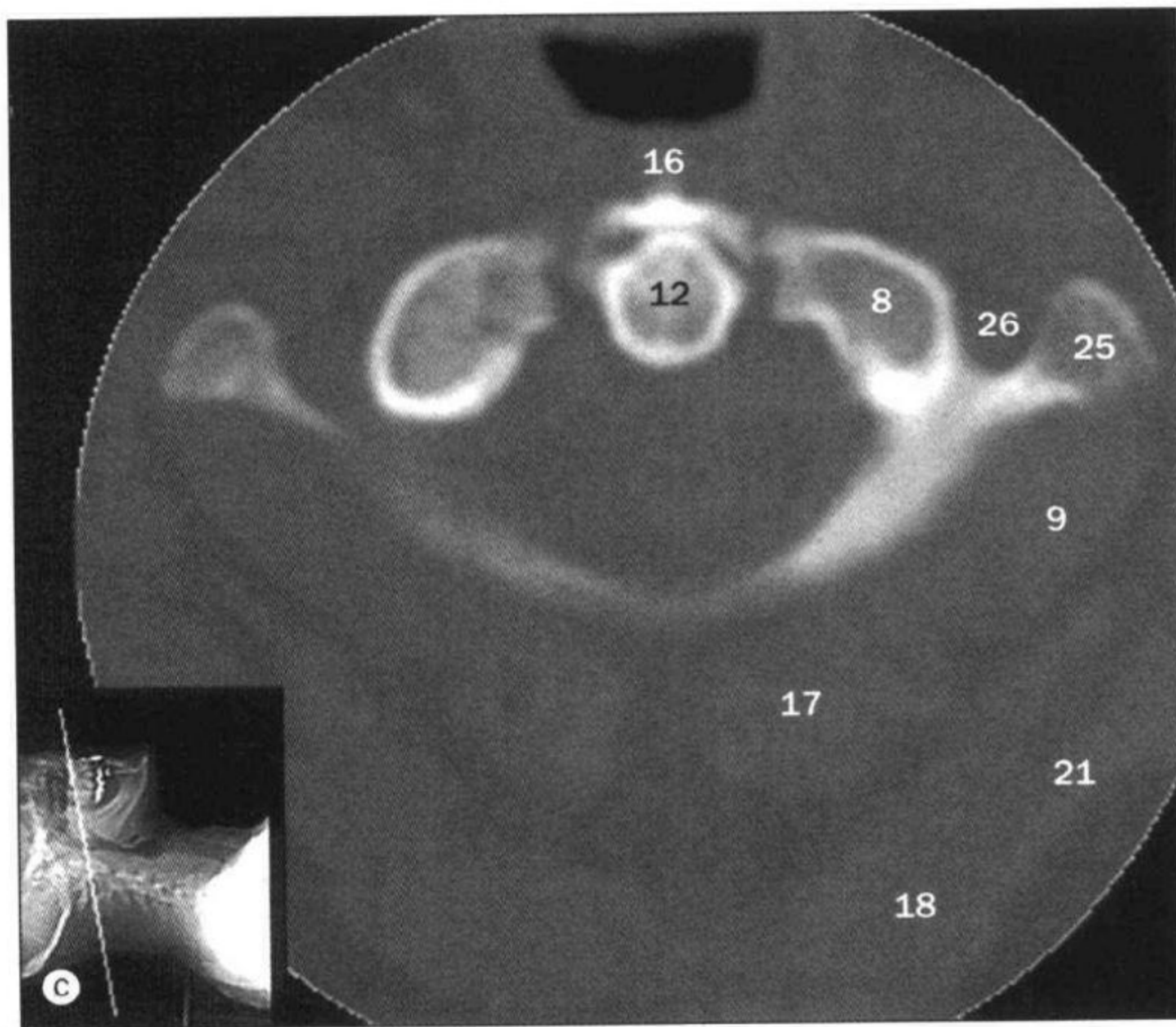
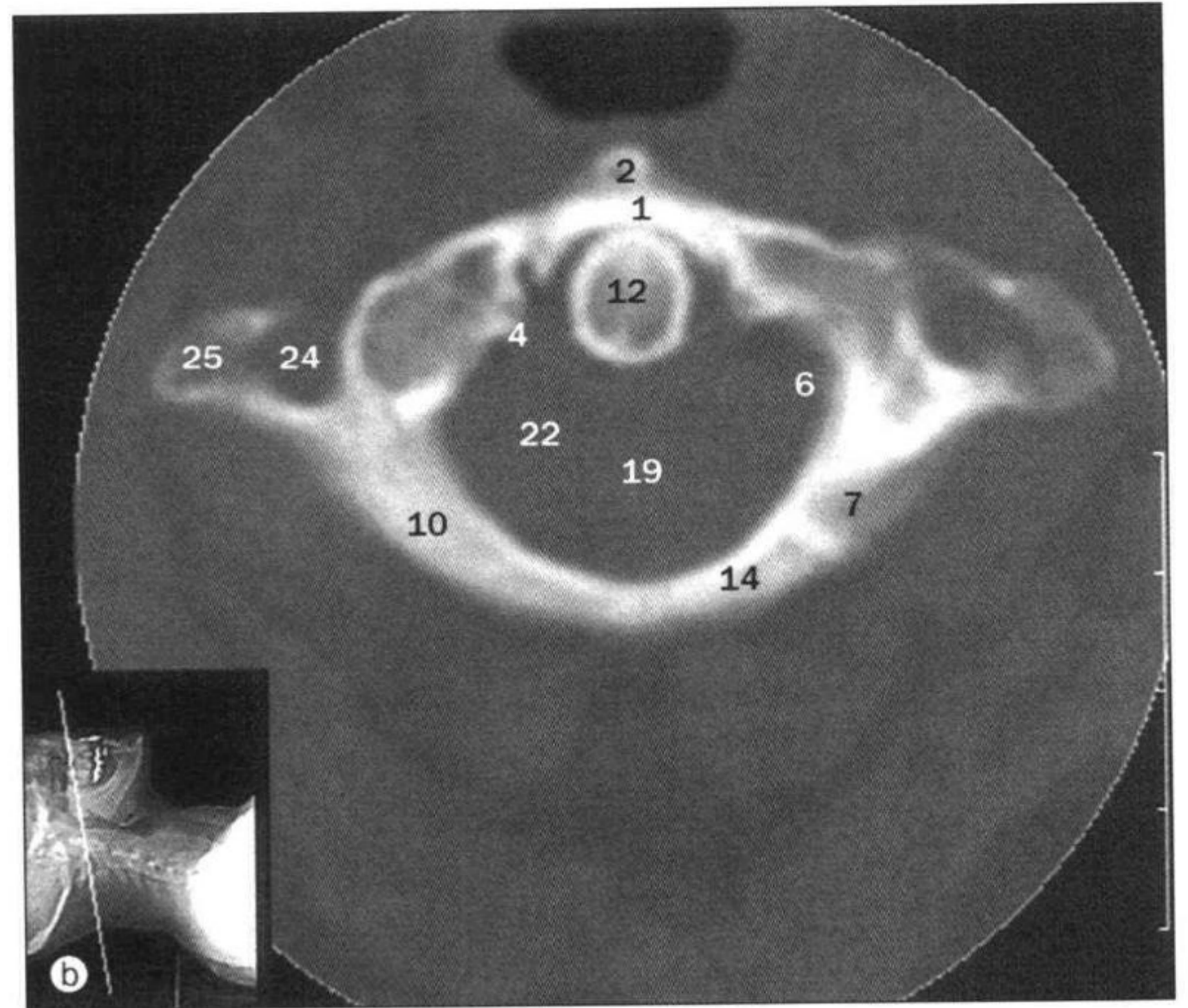
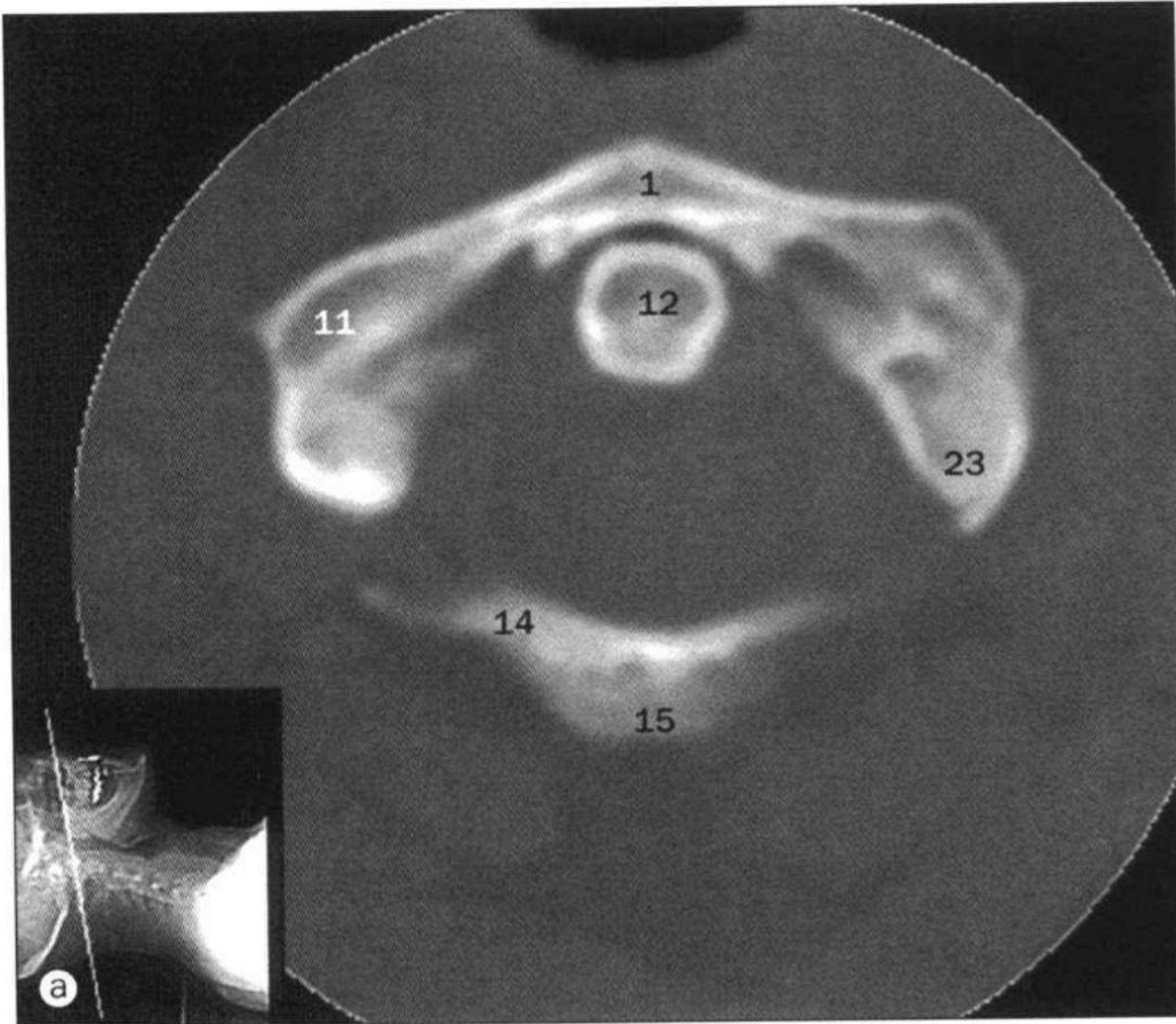
b. 腰椎，侧位 X 线。



c. 第2腰椎 (标本), 前后位 X 线。

d. 第2腰椎 (标本), 侧位 X 线。

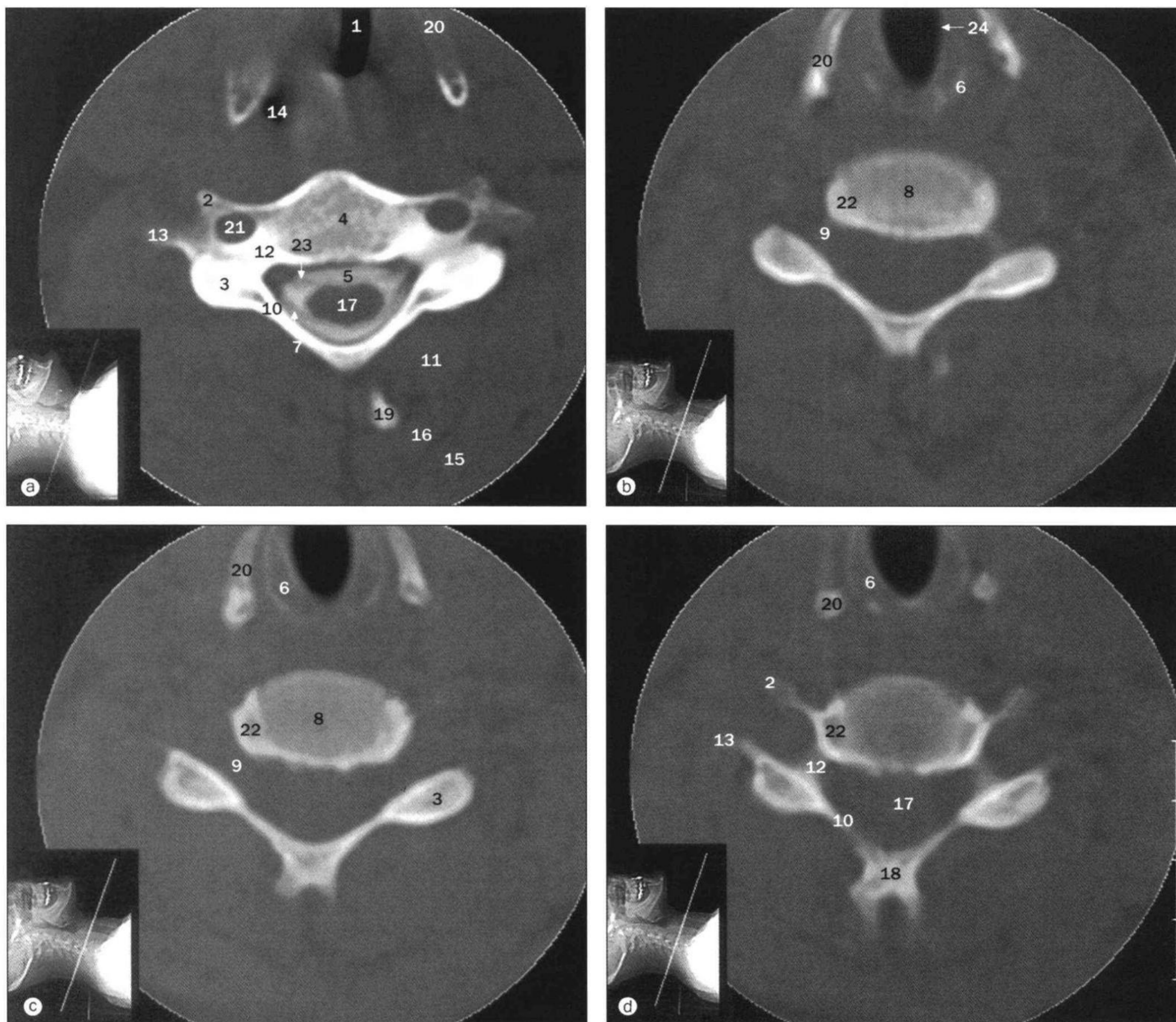
e. 腰椎，斜位 X 线。



a~d. 颈椎，轴位 CT (寰椎水平)。

- 1 寰椎前弓
anterior arch of atlas (first cervical vertebra)
- 2 寰椎前结节 anterior tubercle of atlas
- 3 关节脚 articular pillar
- 4 横韧带附着点 attachment of transverse ligament
- 5 枢椎椎体 body of axis (second cervical vertebra)
- 6 硬膜外隙 epidural space
- 7 椎动脉沟 groove for vertebral artery
- 8 下关节突 inferior articular process (facet)
- 9 下斜肌 inferior oblique muscle
- 10 椎板 lamina
- 11 寰椎侧块 lateral mass of atlas (first cervical vertebra)
- 12 枢椎齿突 odontoid process (dens) of axis (second cervical vertebra)
- 13 椎弓根 pedicle
- 14 寰椎后弓 posterior arch of atlas (first cervical vertebra)

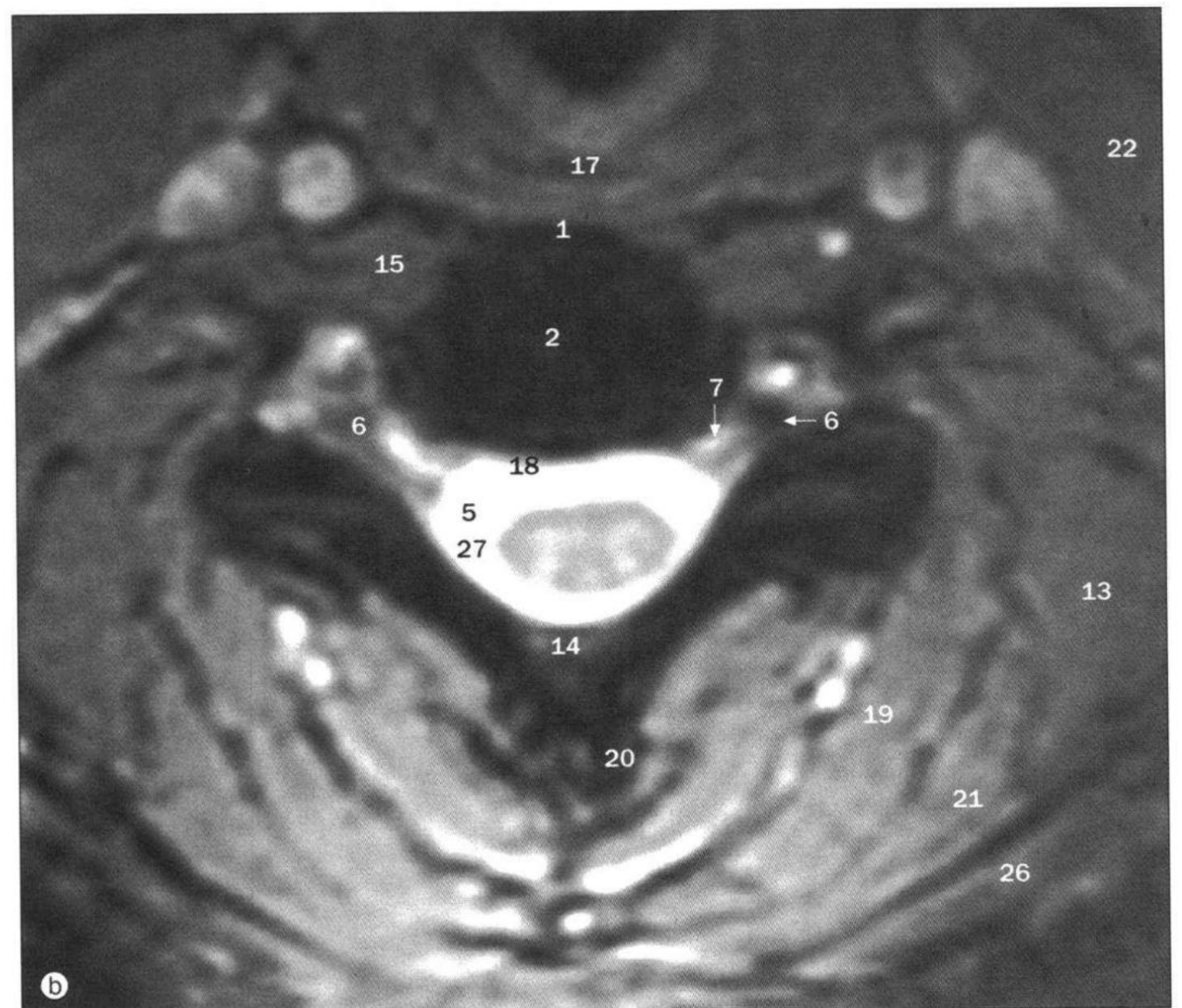
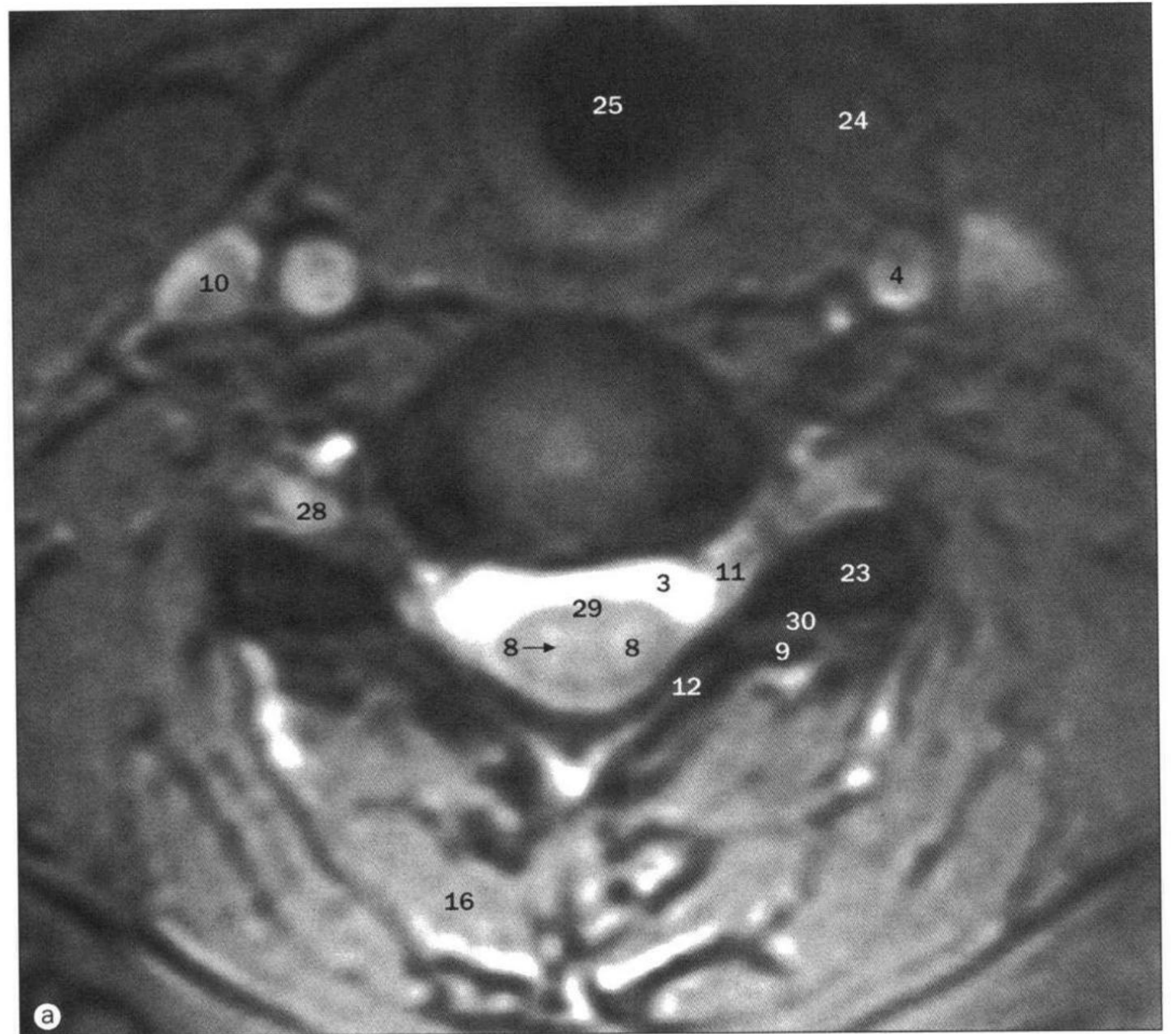
- 15 寰椎后结节
posterior tubercle of atlas (first cervical vertebra)
- 16 椎前软组织 prevertebral soft tissue
- 17 头直肌 rectus capitis muscle
- 18 头半棘肌 semispinalis capitis muscle
- 19 脊髓 spinal cord
- 20 枢椎棘突 spinous process of axis
- 21 头夹肌 splenius capitis muscle
- 22 蛛网膜下隙 subarachnoid space
- 23 寰椎下关节突 superior articular process (facet) of atlas (first cervical vertebra)
- 24 横突孔 transverse foramen
- 25 横突 transverse process
- 26 横突孔内的椎动脉
vertebral artery in transverse foramen



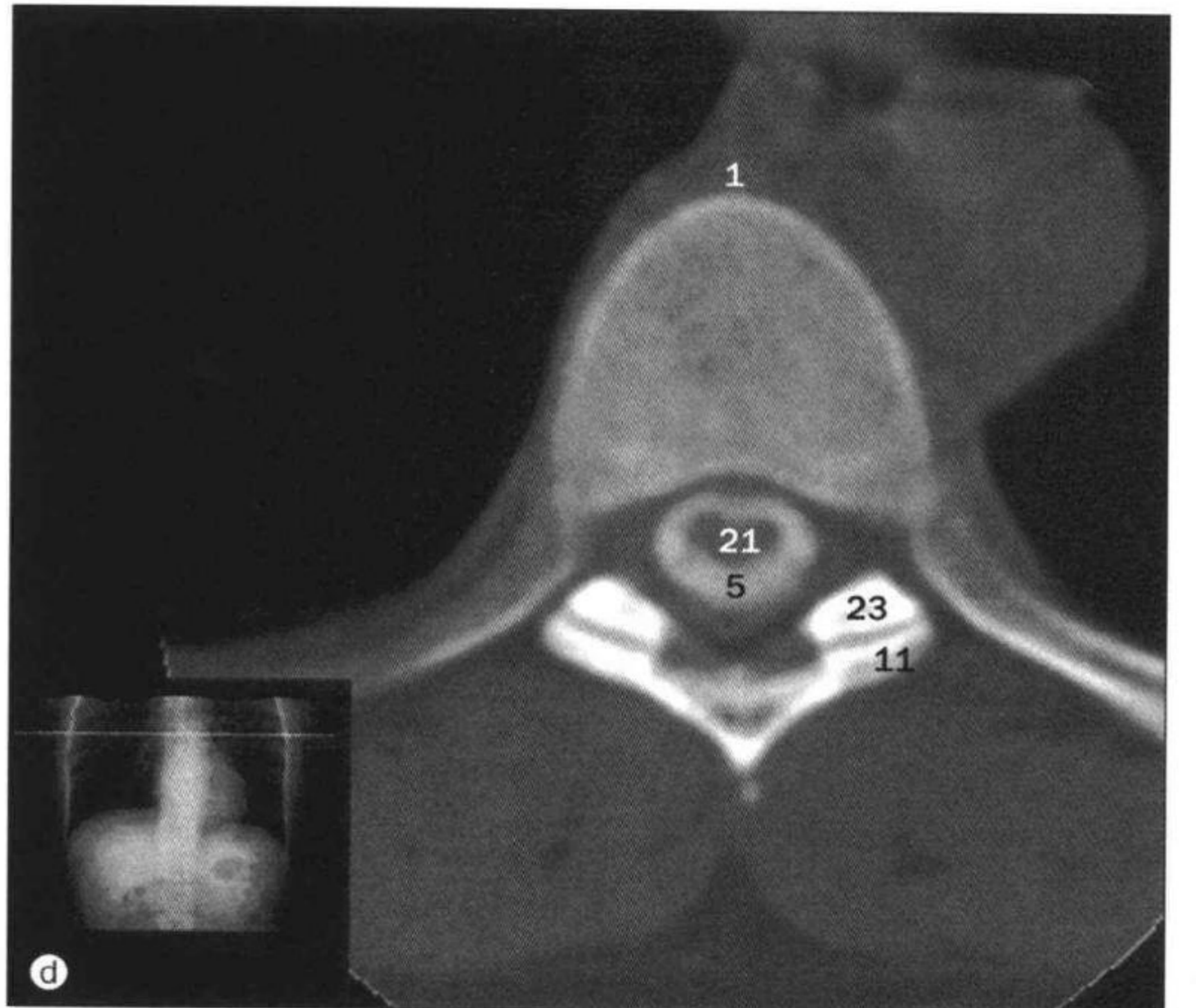
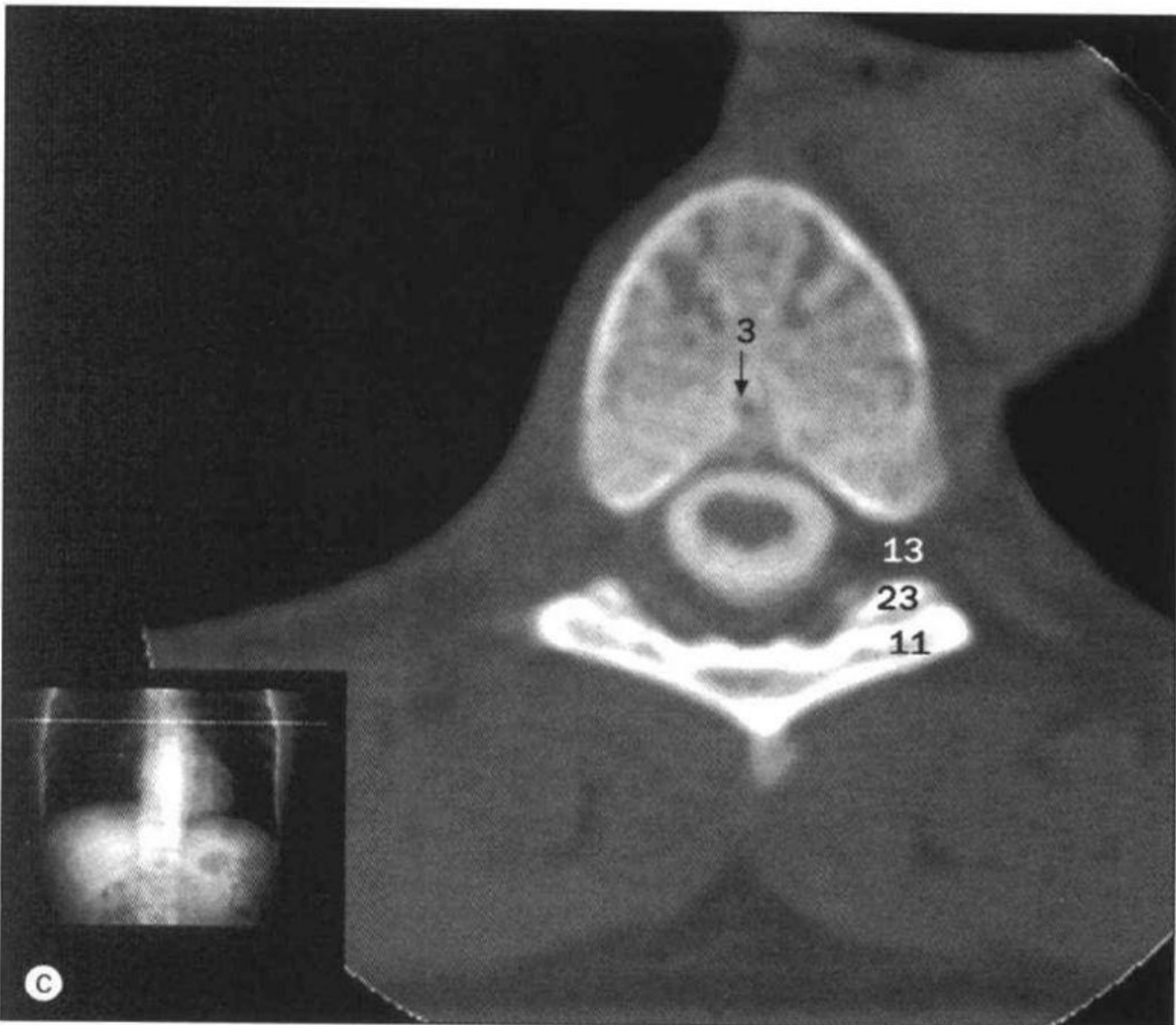
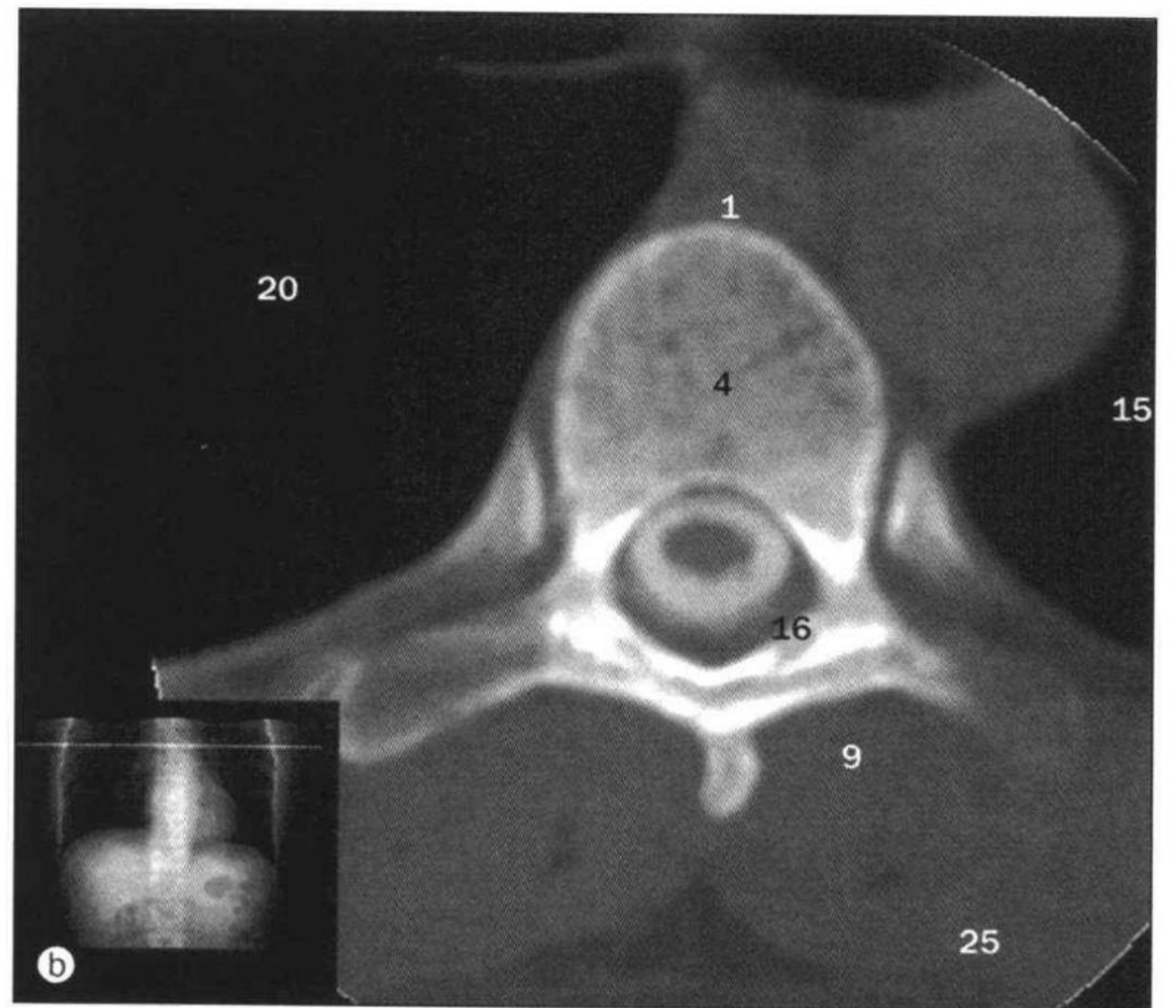
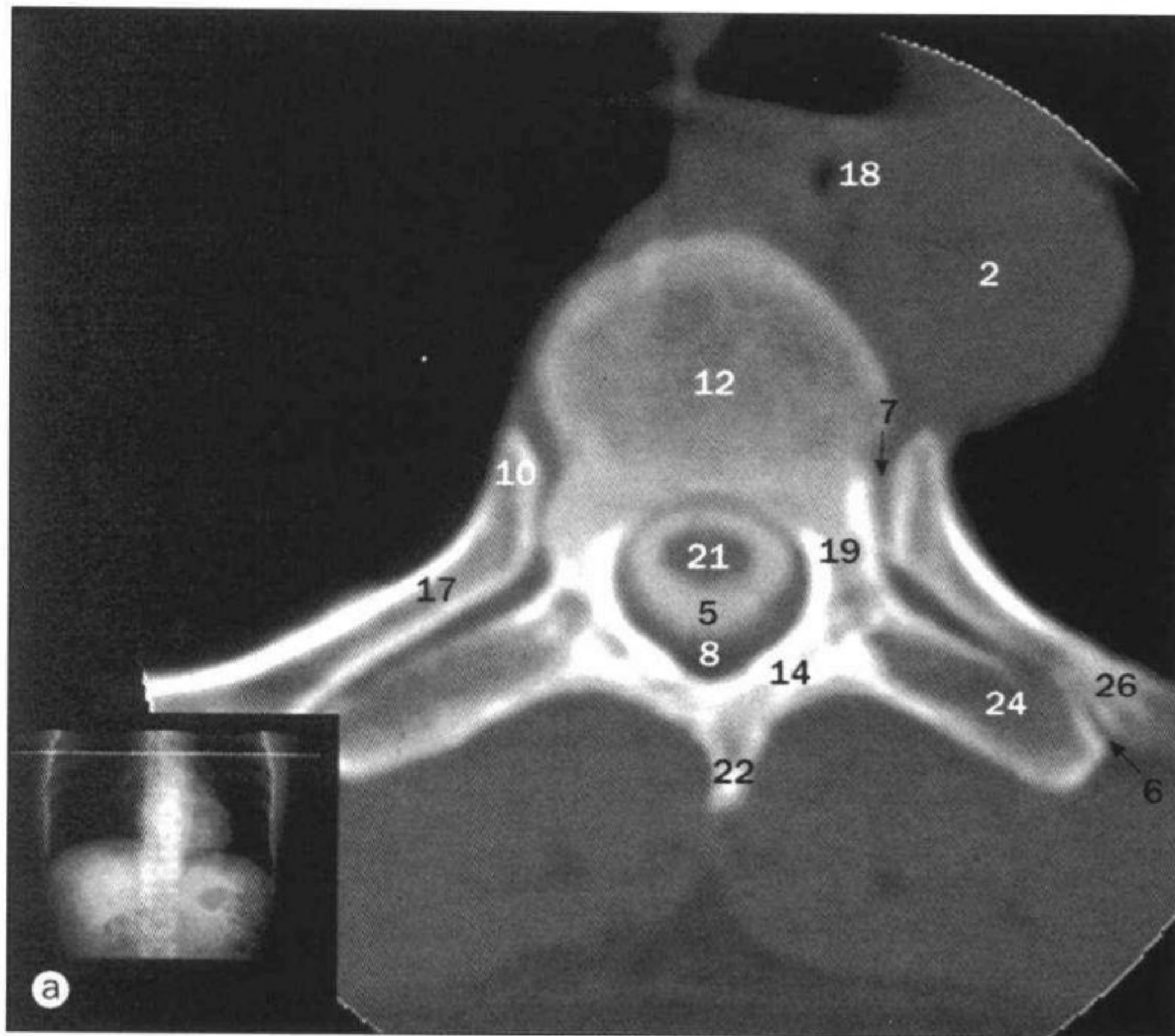
a~d. 颈椎，轴位 CT (第 5、6 颈椎水平)。

- | | |
|--|---|
| 1 声带水平气道 airway at level of vocal cord | 13 后结节 posterior tubercle |
| 2 前结节 anterior tubercle | 14 梨状隐窝 pyriform sinus |
| 3 关节脚 articular pillar | 15 头半棘肌 semispinalis capitis muscle |
| 4 第 5 颈椎椎体 body of fifth cervical vertebra | 16 颈半棘肌 semispinalis cervicis muscle |
| 5 蛛网膜下隙的对比剂 contrast medium in subarachnoid space | 17 脊髓 spinal cord |
| 6 环状软骨 cricoid cartilage | 18 棘突 spinous process |
| 7 后支 dorsal ramus | 19 第 4 颈椎棘突 spinous process of fourth cervical vertebra |
| 8 椎间盘 (第 5、6 颈椎之间) intervertebral disc (between fifth and sixth cervical vertebra) | 20 甲状软骨 thyroid cartilage |
| 9 椎间孔 intervertebral foramen | 21 横突孔 transverse foramen |
| 10 椎板 lamina | 22 钩突 uncinat process |
| 11 多裂肌 multifidus muscle | 23 腹侧支 ventral ramus |
| 12 椎弓根 pedicle | 24 声带 vocal cord |

- 1 前纵韧带和骨皮质
anterior longitudinal ligament and cortical bone
- 2 椎体 body of vertebra
- 3 蛛网膜下隙的脑脊液
cerebrospinal fluid in subarachnoid space
- 4 颈总动脉 common carotid artery
- 5 后支 dorsal ramus
- 6 后根神经节 dorsal root ganglion
- 7 硬膜外脂肪 epidural fat
- 8 颈髓灰质
grey matter of cervical spinal cord
- 9 下关节突
inferior articular process (facet)
- 10 颈内静脉 internal jugular vein
- 11 椎间孔 intervertebral foramen
- 12 椎板 lamina
- 13 肩胛提肌 levator scapulae muscle
- 14 黄韧带 ligamentum flavum
- 15 颈长肌 longus cervicis muscle
- 16 多裂肌 multifidus muscle
- 17 食管 oesophagus
- 18 后纵韧带和骨皮质
posterior longitudinal ligament and cortical bone
- 19 头半棘肌
semispinalis capitis muscle
- 20 棘突 spinous process
- 21 头夹肌 splenius capitis muscle
- 22 胸锁乳突肌
sternocleidomastoid muscle
- 23 上关节突
superior articular process (facet)
- 24 甲状腺 thyroid gland
- 25 气管 trachea
- 26 斜方肌 trapezius muscle
- 27 腹侧支 ventral ramus
- 28 横突孔内的椎动脉
vertebral artery in transverse foramen
- 29 颈髓白质 white matter of cervical spinal cord
- 30 关节突间关节
zygapophysial (facet) joint



a, b. 颈椎, 轴位 MRI。

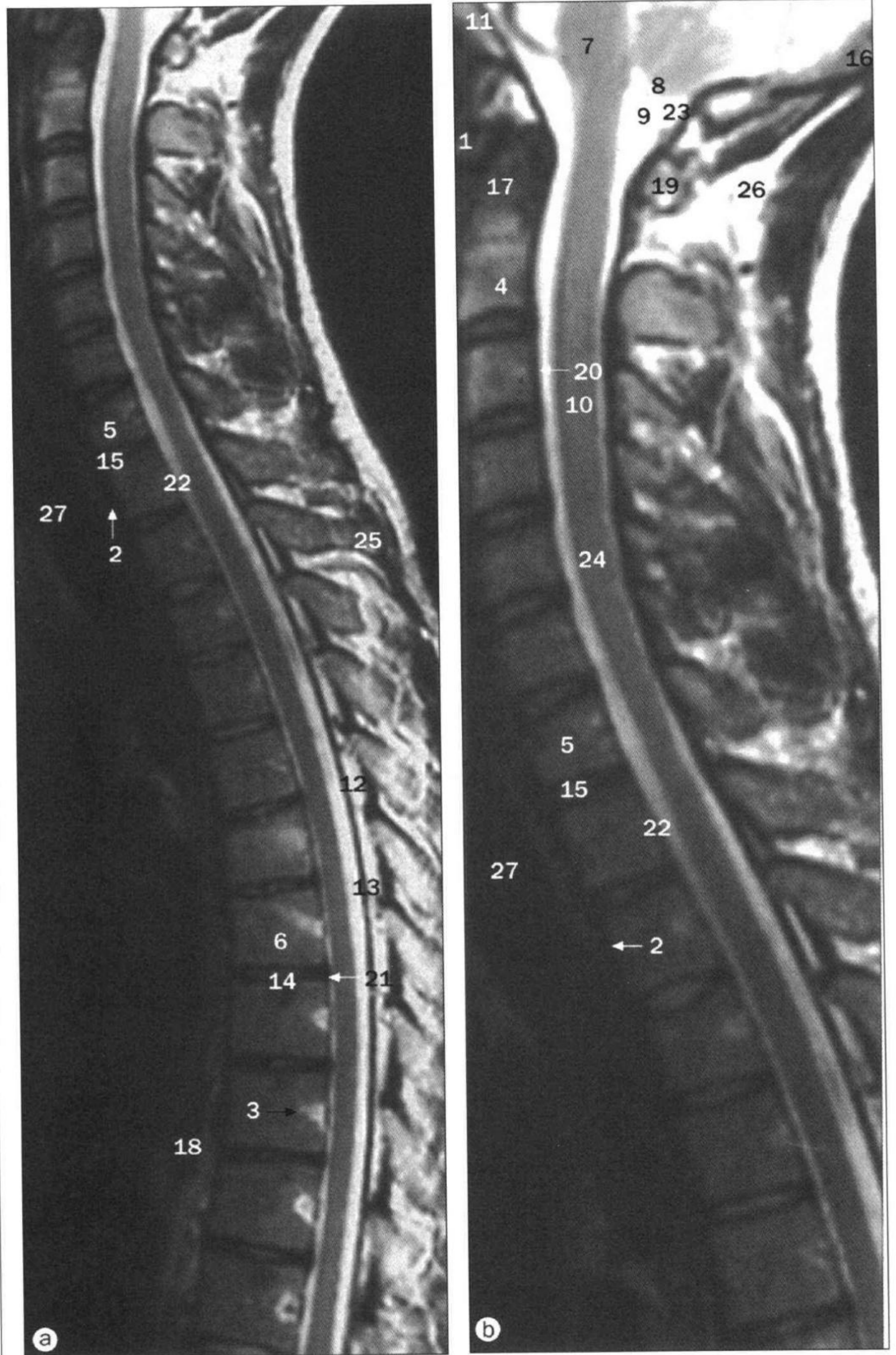


a~d. 胸椎，轴位 CT (第 6 胸椎水平，鞘内注射对比剂)。

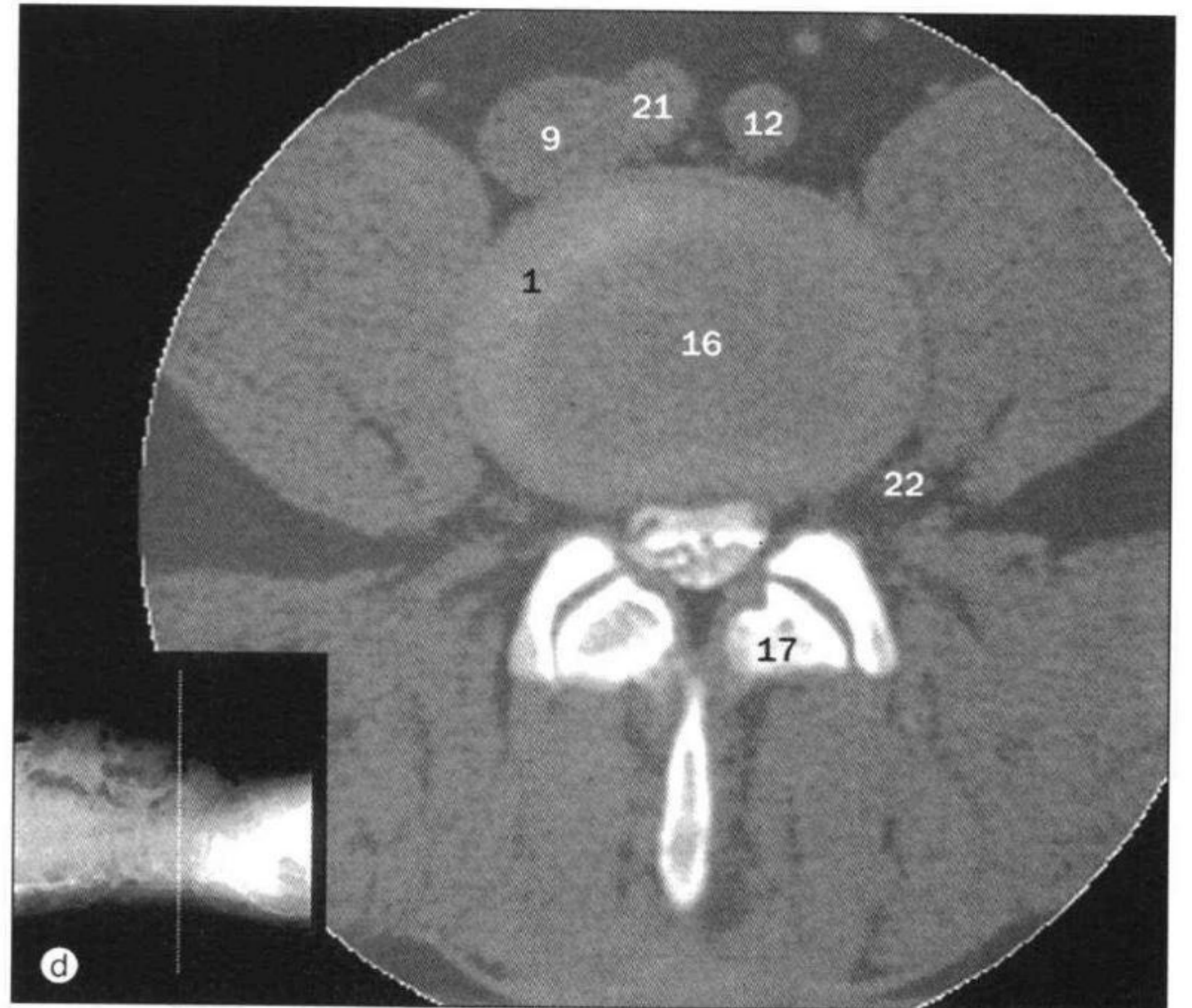
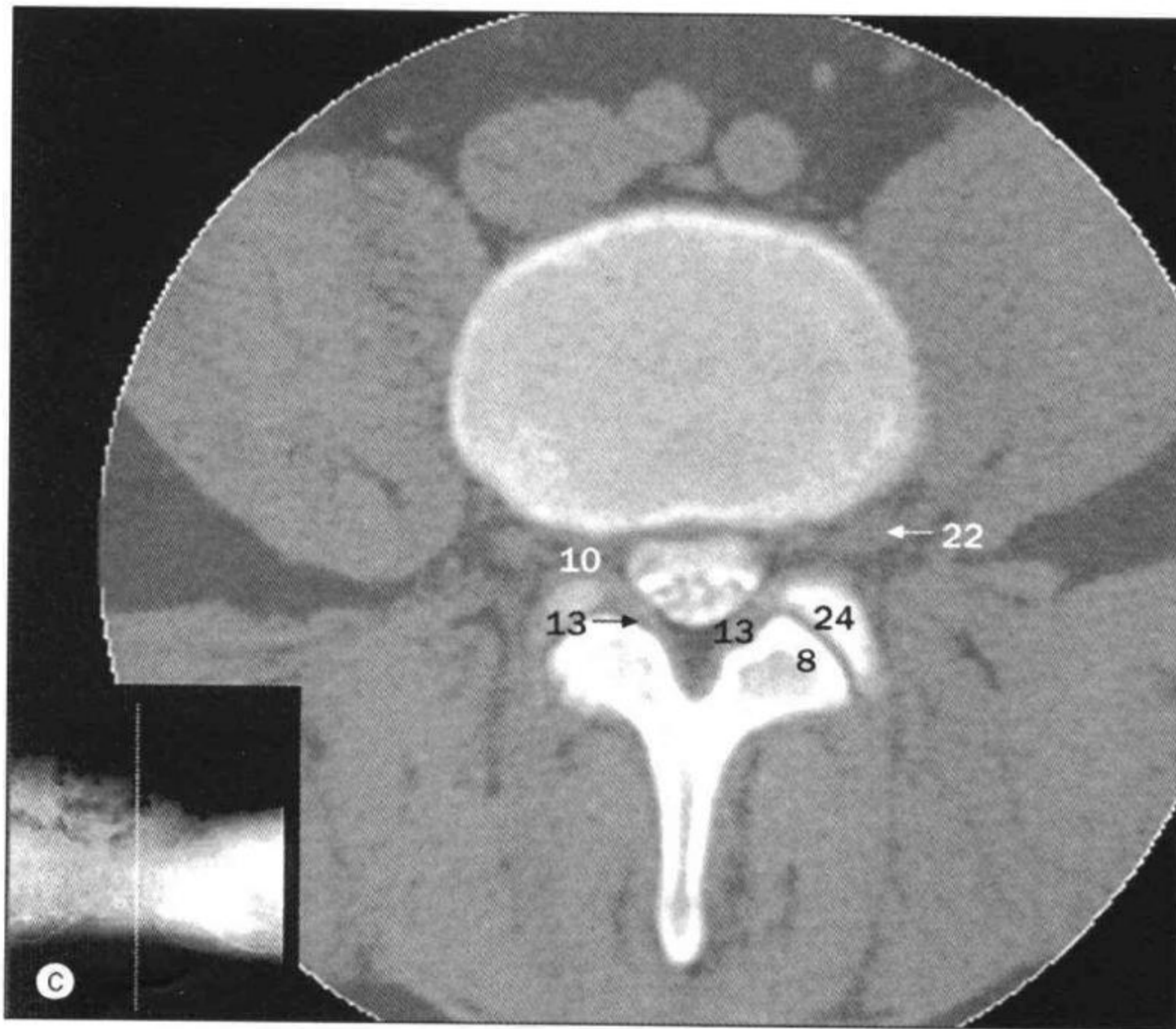
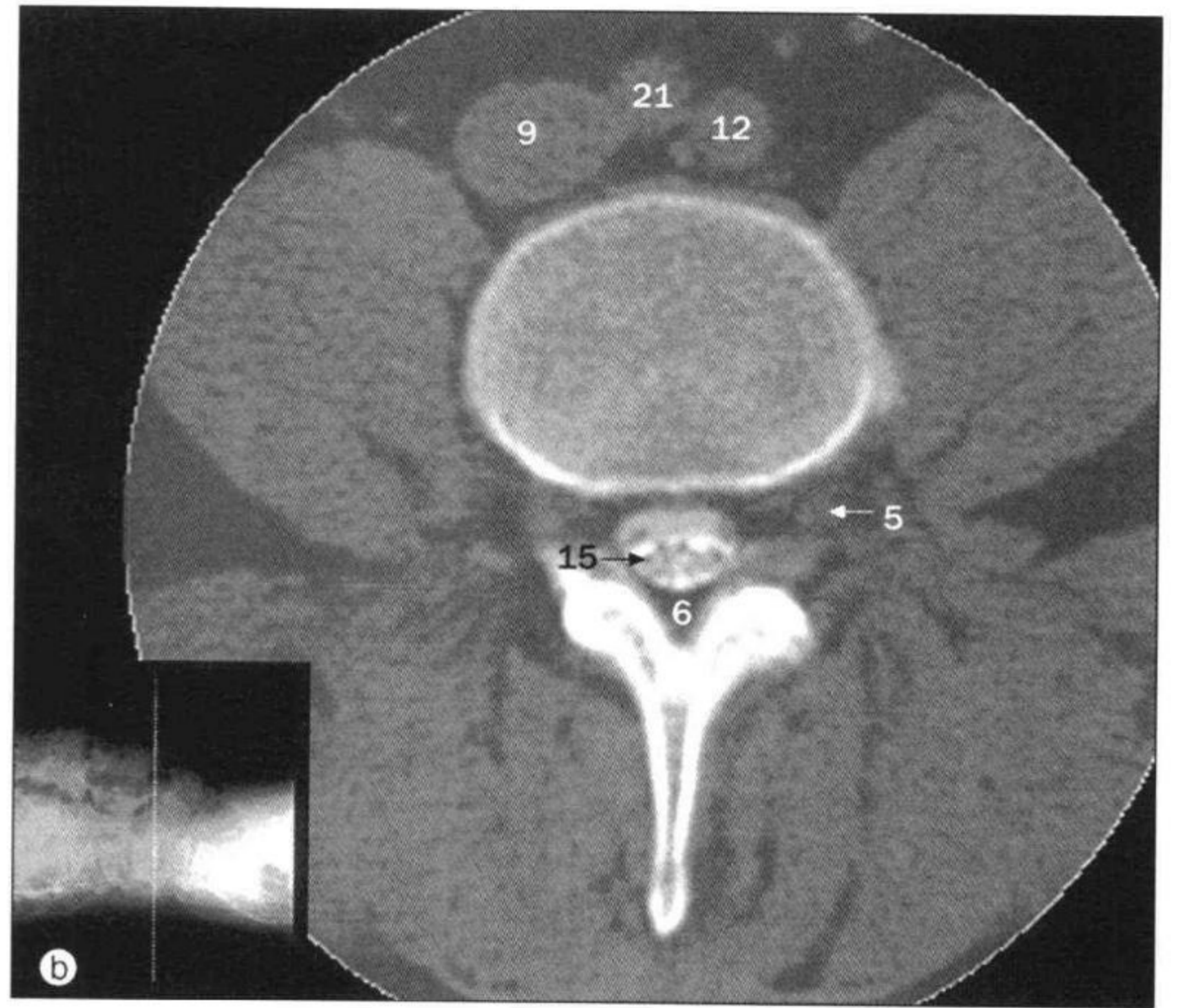
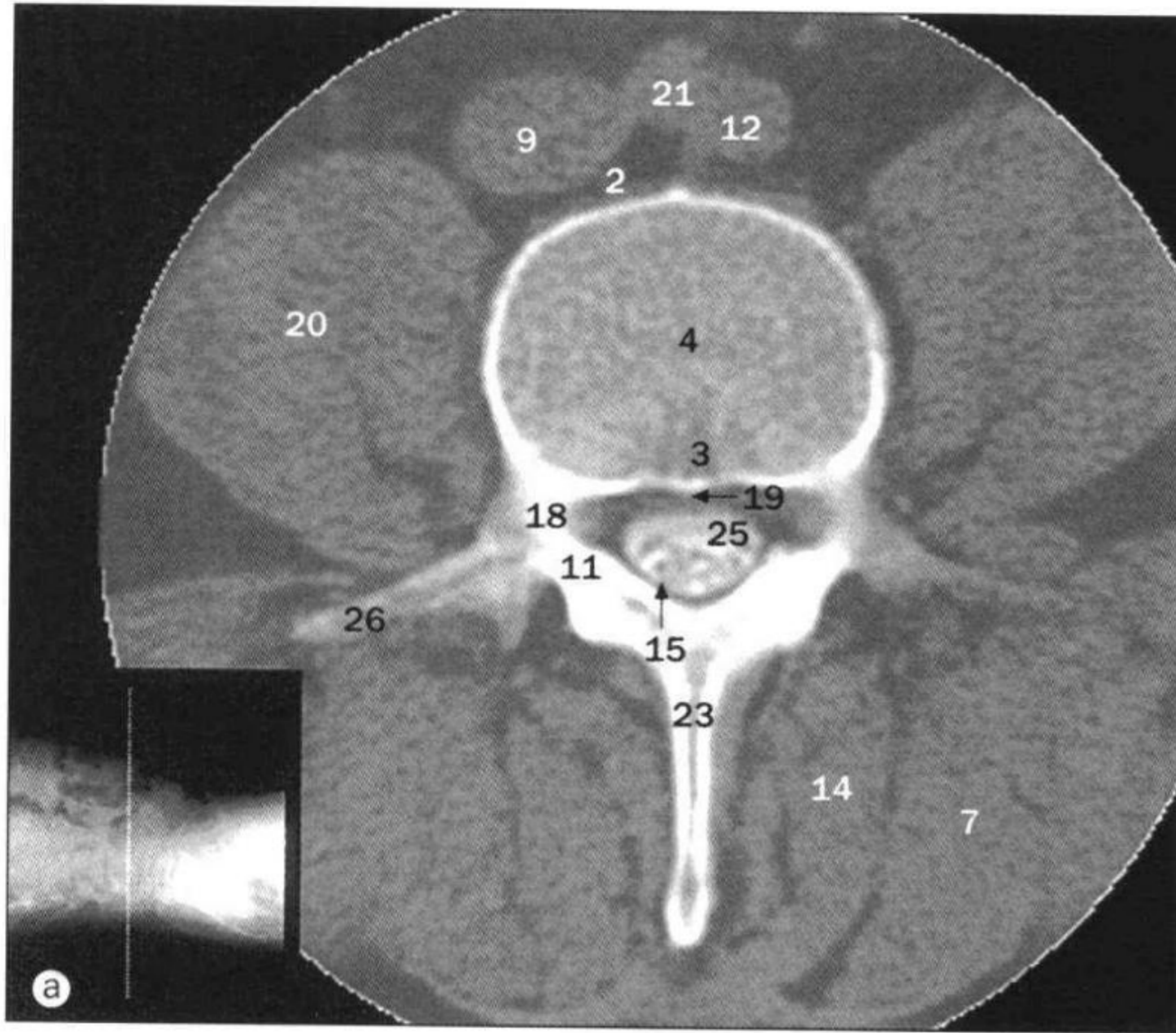
- 1 前纵韧带 anterior longitudinal ligament
- 2 主动脉 aorta
- 3 椎体静脉 basivertebral veins
- 4 第 6 胸椎椎体 body of sixth thoracic vertebra
- 5 蛛网膜下隙的对比剂
contrast medium in subarachnoid space
- 6 肋横突关节 costotransverse joint
- 7 肋椎关节 costovertebral joint
- 8 硬膜外隙 epidural space
- 9 竖脊肌 erector spinae muscles
- 10 肋骨头 head of rib
- 11 第 6 胸椎下关节突 inferior articular process
(facet) of sixth thoracic vertebra
- 12 椎间盘 (第 5、6 胸椎之间) intervertebral disc
(between fifth and sixth thoracic vertebrae)

- 13 椎间孔 intervertebral foramen
- 14 椎板 lamina
- 15 左肺 left lung
- 16 黄韧带 ligamentum flavum
- 17 肋颈 neck of rib
- 18 食管 oesophagus
- 19 椎弓根 pedicle
- 20 右肺 right lung
- 21 脊髓 spinal cord
- 22 棘突 spinous process
- 23 第 7 胸椎上关节突 superior articular process
(facet) of seventh thoracic vertebra
- 24 横突 transverse process
- 25 斜方肌 trapezius muscle
- 26 肋结节 tubercle of rib

- 1 寰椎前弓 anterior arch of atlas (first cervical vertebra)
- 2 前纵韧带和骨皮质 anterior longitudinal ligament and cortical bone
- 3 椎体静脉 basivertebral vein
- 4 枢椎椎体 body of axis (second cervical vertebra)
- 5 第7颈椎椎体 body of seventh cervical vertebra
- 6 第7胸椎椎体 body of seventh thoracic vertebra
- 7 脑干 brainstem
- 8 小脑扁桃体 cerebellar tonsil
- 9 蛛网膜下隙的脑脊液 cerebrospinal fluid in subarachnoid space
- 10 颈膨大 cervical expansion
- 11 斜坡 clivus
- 12 硬膜外脂肪 epidural fat
- 13 黄韧带 ligamentum flavum
- 14 椎间盘髓核 (第7、8胸椎之间) nucleus pulposus of intervertebral disc (between seventh and eighth thoracic vertebrae)
- 15 椎间盘髓核 (第7颈椎和第1胸椎之间) nucleus pulposus of intervertebral disc (between seventh cervical and first thoracic vertebrae)
- 16 枕骨 occipital bone
- 17 齿突 odontoid process (dens)
- 18 食管 oesophagus
- 19 寰椎后弓 posterior arch of atlas (first cervical vertebra)
- 20 后纵韧带 posterior longitudinal ligament
- 21 后纵韧带和纤维环 posterior longitudinal ligament and annulus fibrosus
- 22 后纵韧带和骨皮质 Posterior longitudinal ligament and cortical bone
- 23 枕骨大孔后缘 posterior margin of foramen magnum
- 24 脊髓 spinal cord
- 25 棘突 spinous process
- 26 枕下脂肪 suboccipital fat
- 27 气管 trachea



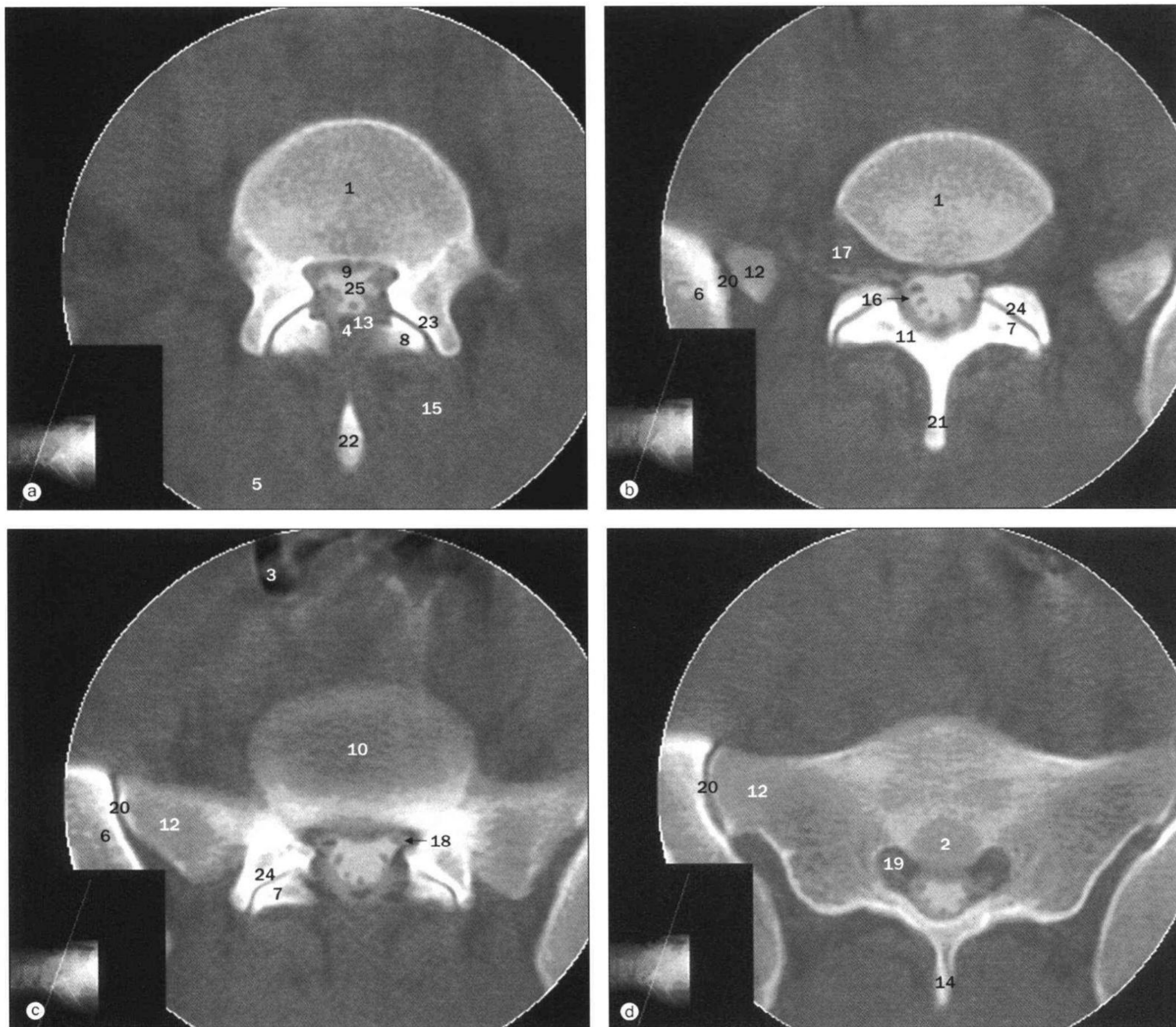
a, b. 脊髓, 矢状位 MRI。



a~d. 腰椎，轴位 CT (第 4、5 胸椎水平，鞘内注射对比剂)。

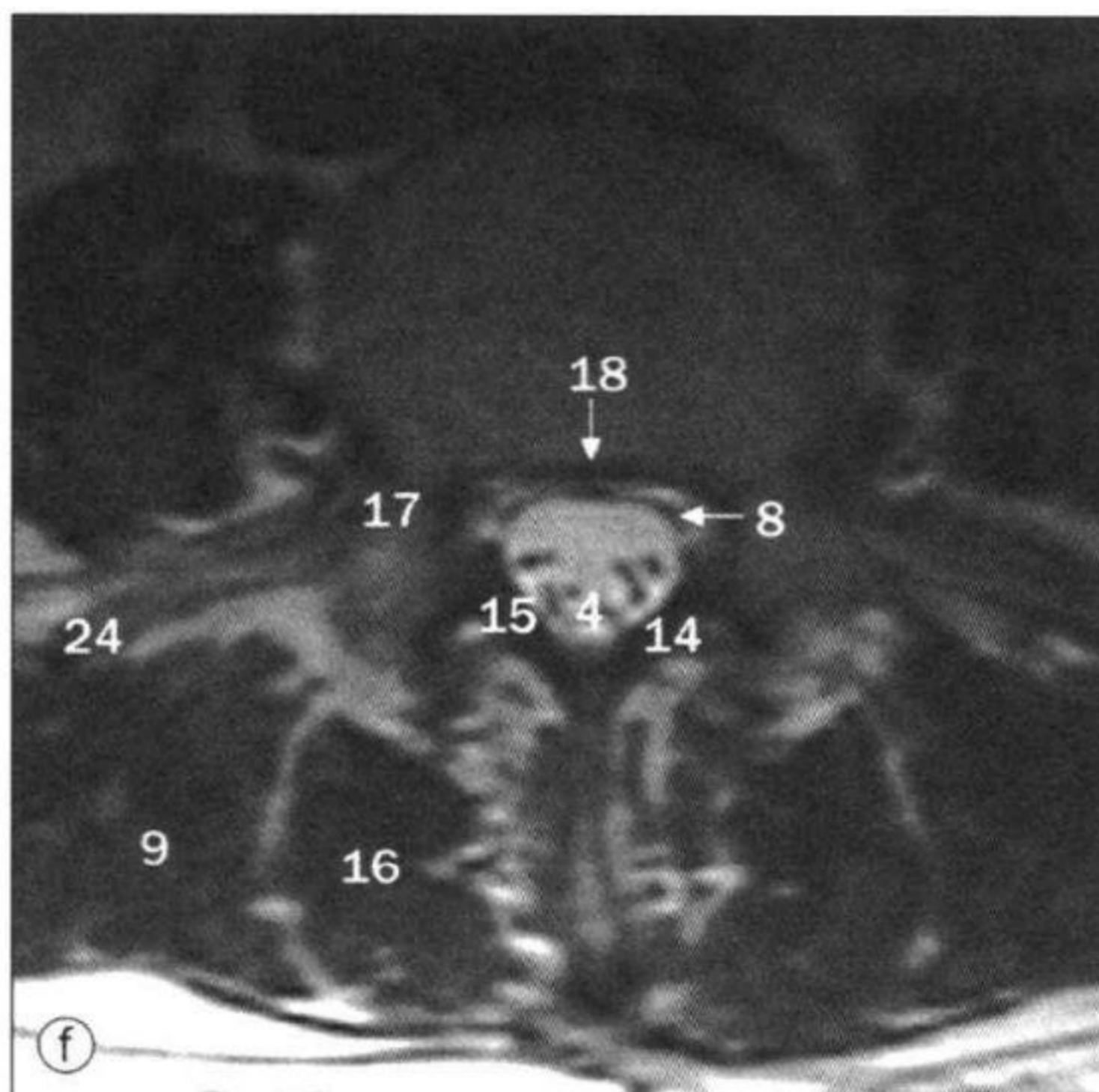
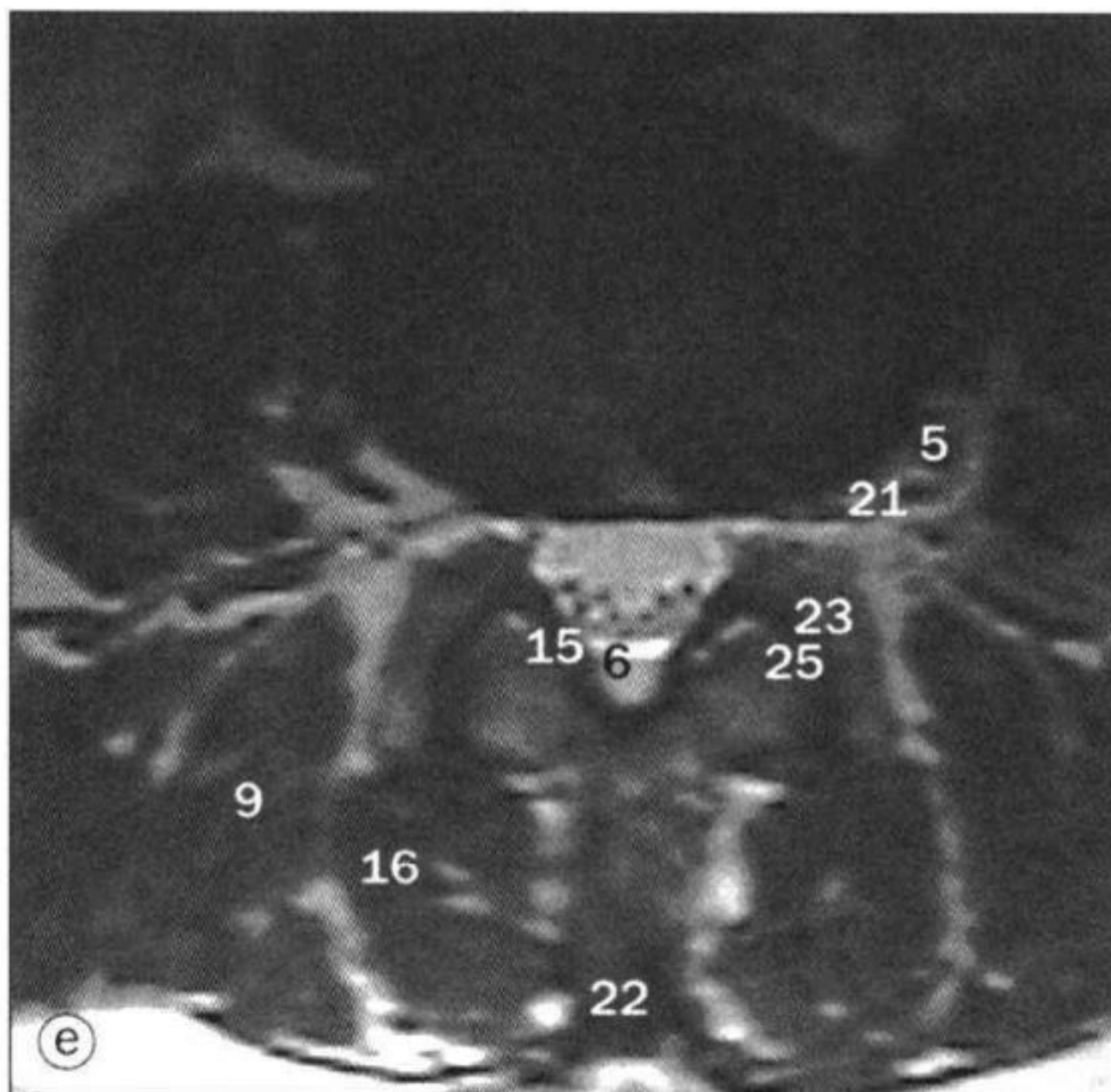
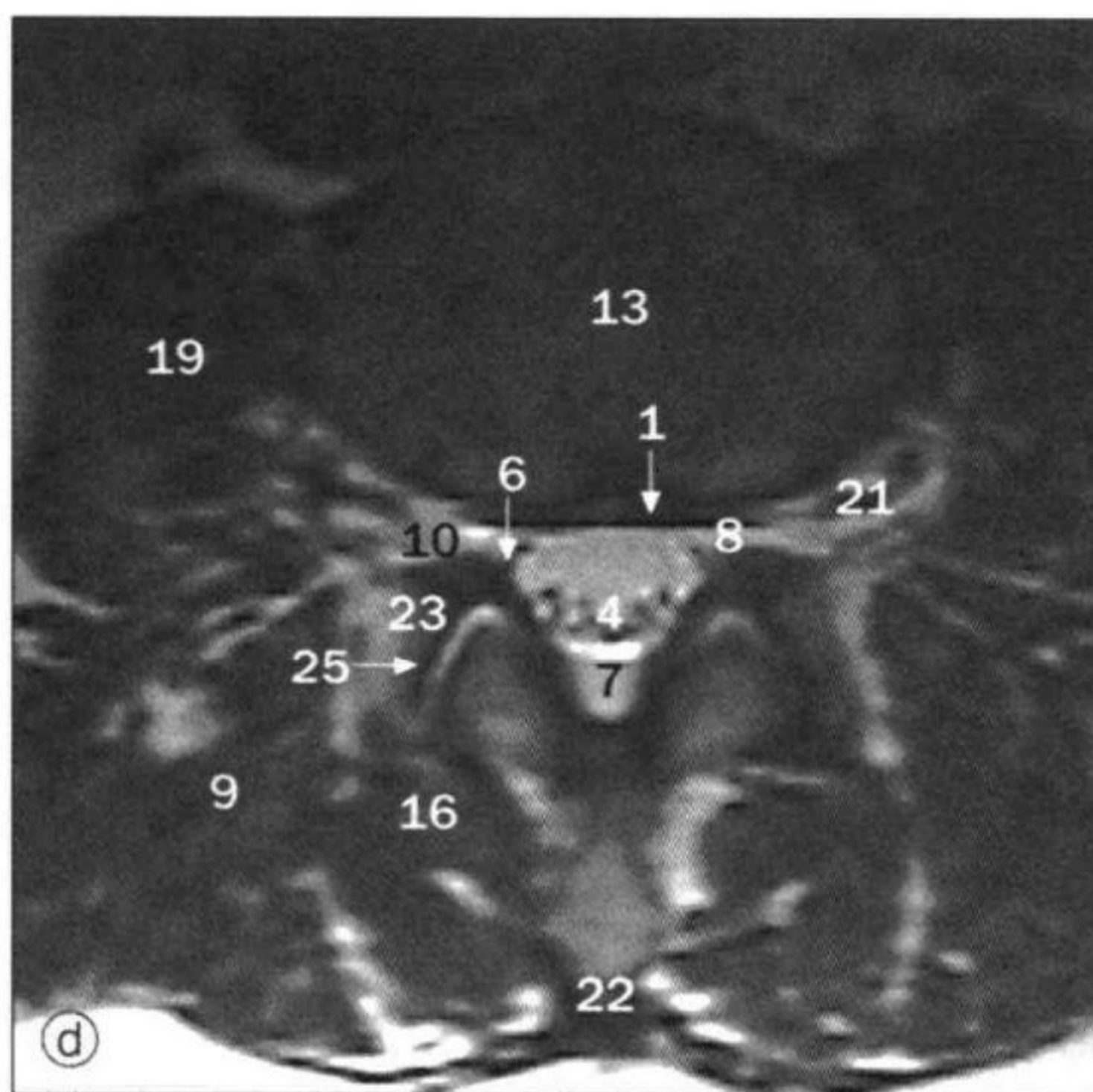
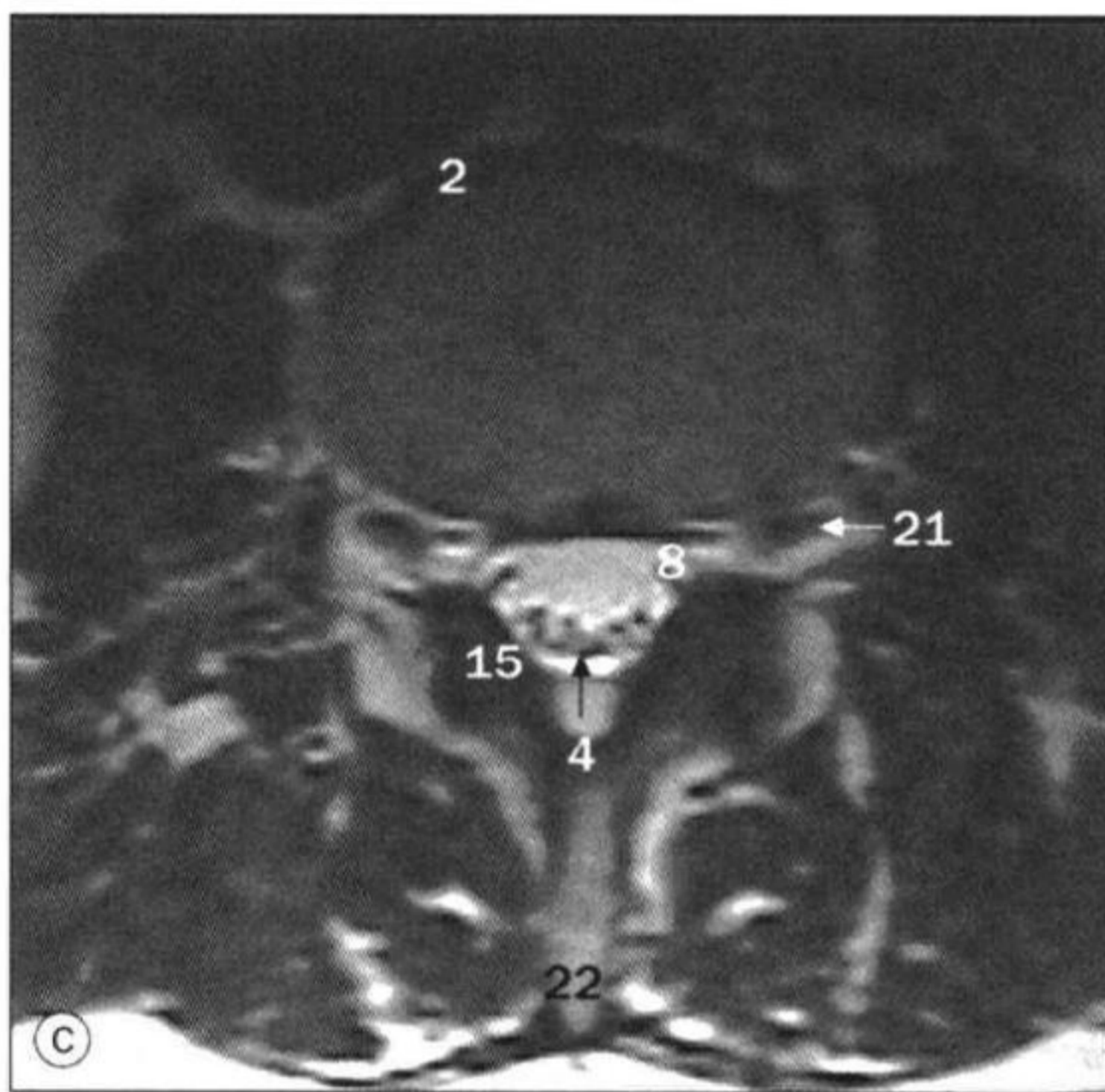
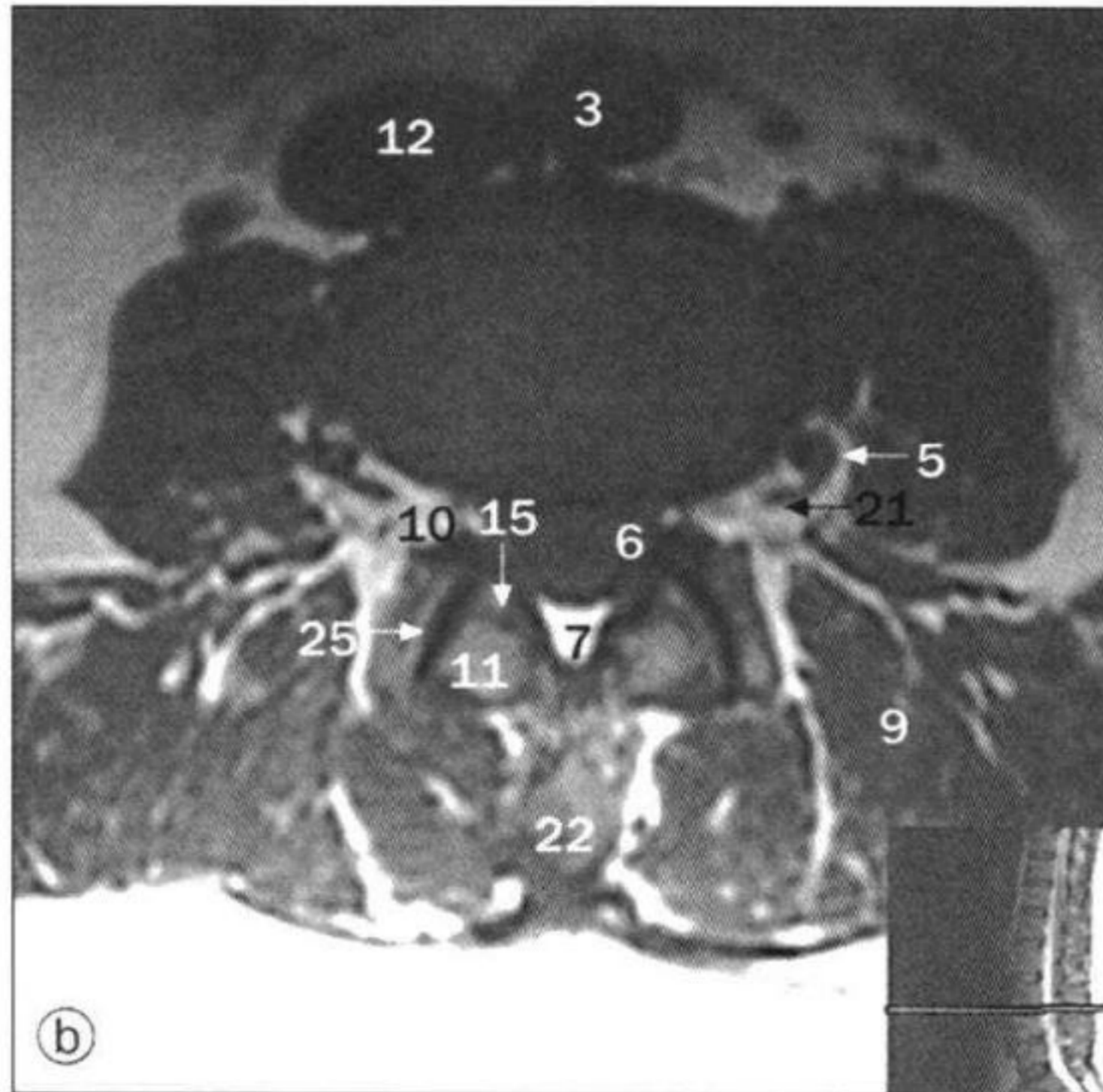
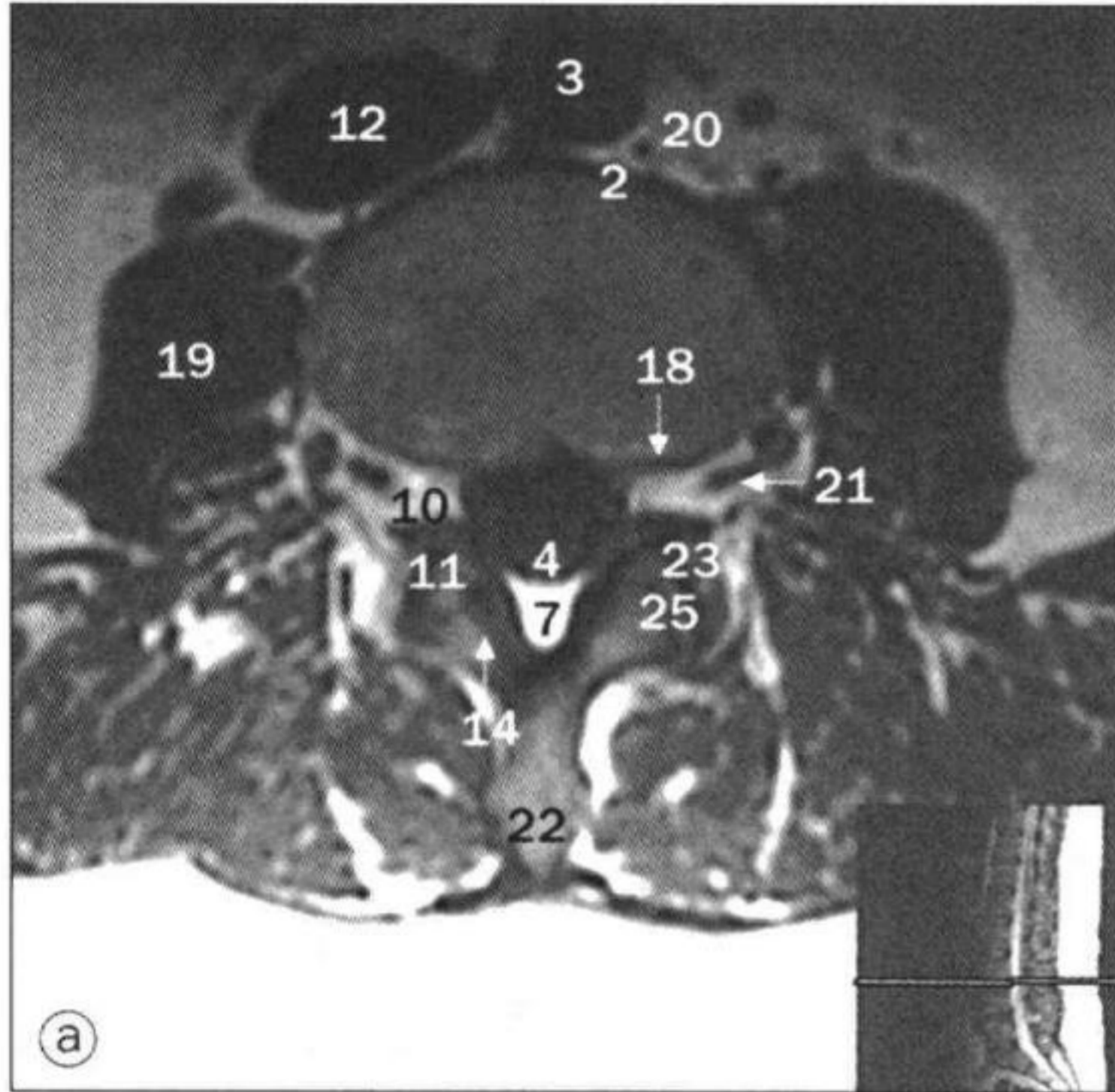
平行于椎间隙，间隔 5mm 扫描，硬膜外脂肪为鞘膜、神经根、椎间盘后部提供了对比。

- | | |
|--|--|
| 1 椎间盘纤维环 annulus fibrosus of intervertebral disc | 13 黄韧带 ligamentum flavum |
| 2 前纵韧带 anterior longitudinal ligament | 14 多裂肌 multifidus muscle |
| 3 椎体静脉 basivertebral veins | 15 马尾神经根 nerve roots of cauda equina |
| 4 第 4 腰椎椎体 body of fourth lumbar vertebra | 16 椎间盘髓核 nucleus pulposus of intervertebral disc |
| 5 第 4 腰神经后根神经节 dorsal root ganglion of fourth lumbar nerve | 17 椎弓峡部 pars interarticularis |
| 6 硬膜外脂肪 epidural fat | 18 椎弓根 pedicle |
| 7 竖棘肌 erector spinae muscle | 19 后纵韧带 posterior longitudinal ligament |
| 8 第 4 腰椎下关节突 inferior articular process (facet) of fourth lumbar vertebra | 20 腰大肌 psoas muscle |
| 9 下腔静脉 inferior vena cava | 21 右髂总动脉 right common iliac artery |
| 10 椎间孔 (第 4、5 腰椎之间) intervertebral foramen (between fourth and fifth lumbar vertebrae) | 22 第 4 腰神经根 root of fourth lumbar nerve |
| 11 椎板 lamina | 23 第 4 腰椎棘突 spinous process of fourth lumbar vertebra |
| 12 左髂总动脉 left common iliac artery | 24 第 5 腰椎上关节突 superior articular process (facet) of fifth lumbar vertebrae |
| | 25 硬脊膜囊 thecal sac |
| | 26 横突 transverse process |



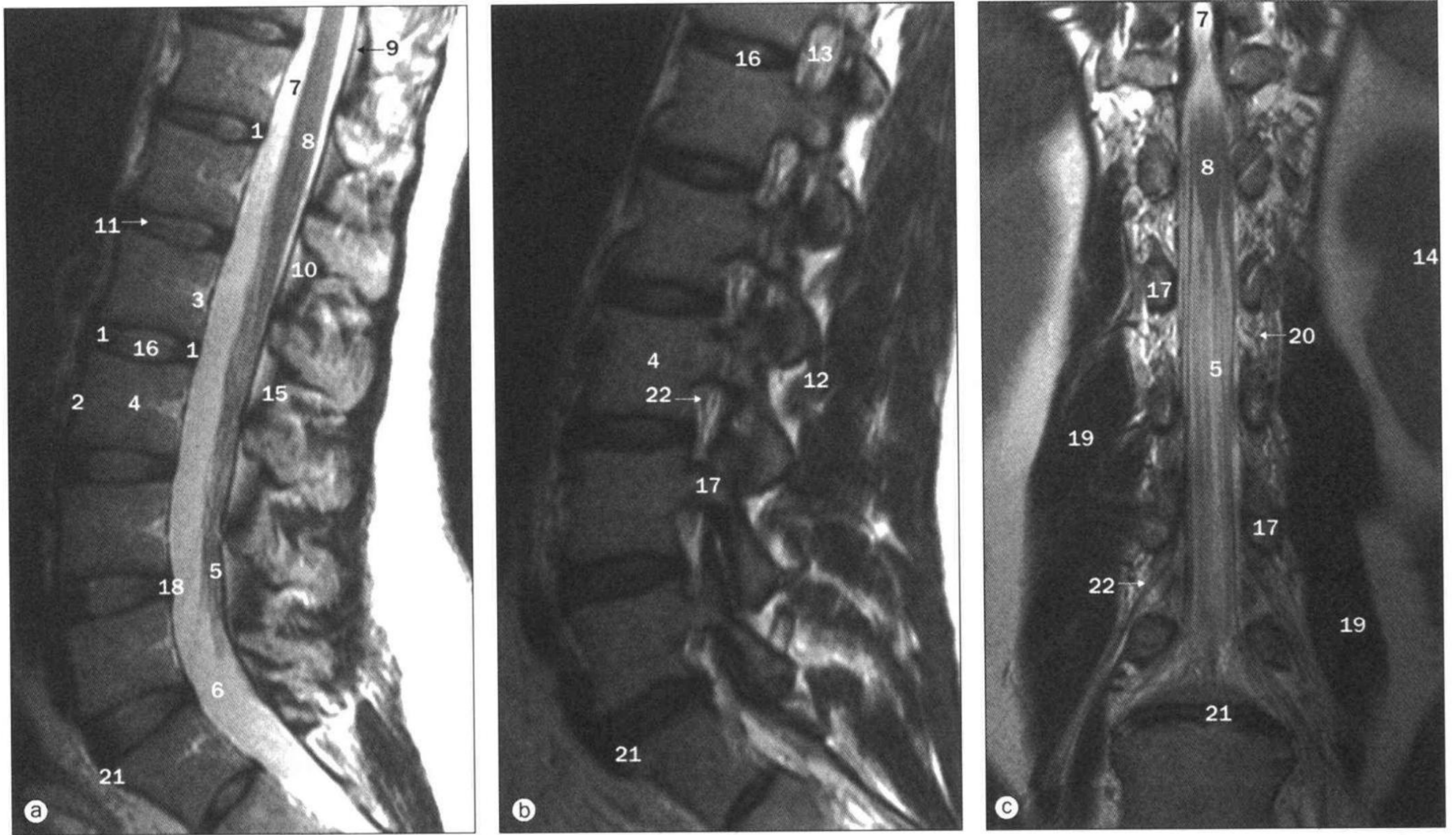
a~d. 腰椎，轴位 CT (腰骶关节水平，鞘内注射对比剂)。

- | | |
|--|--|
| 1 第 5 腰椎椎体 body of fifth lumbar vertebra | 13 黄韧带 ligamentum flavum |
| 2 骶骨体 body of sacrum | 14 骶正中嵴 median sacral crest |
| 3 肠内气体 bowel gas | 15 多裂肌 multifidus muscle |
| 4 硬膜外脂肪 epidural fat | 16 马尾神经根 nerve roots of cauda equina |
| 5 竖脊肌 erector spinae muscle | 17 第 5 腰神经根 root of fifth lumbar nerve |
| 6 髌骨 ilium | 18 第 1 骶神经根 root of first sacral nerve |
| 7 第 5 腰椎下关节突
inferior articular process (facet) of fifth lumbar vertebra | 19 骶孔 sacral foramina |
| 8 第 4 腰椎下关节突
inferior articular process (facet) of fourth lumbar vertebra | 20 骶髂关节 sacro-iliac joint |
| 9 椎管内静脉丛 internal vertebral veins | 21 第 5 腰椎棘突 spinous process of fifth lumbar vertebra |
| 10 椎间盘 (第 5 腰椎与第 1 骶椎之间)
intervertebral disc (fifth lumbar / first sacral vertebra) | 22 第 4 腰椎棘突 spinous process of fourth lumbar vertebra |
| 11 椎板 lamina | 23 第 5 腰椎上关节突
superior articular process (facet) of fifth lumbar vertebra |
| 12 骶骨侧部 lateral part (ala) of sacrum | 24 第 1 骶椎上关节突
superior articular process (facet) of first sacral vertebra |
| | 25 硬脊膜囊 thecal sac |



- 1 纤维环和后纵韧带
annulus fibrosus and posterior longitudinal ligament
- 2 前纵韧带和骨皮质
anterior longitudinal ligament and cortical bone
- 3 主动脉 aorta
- 4 腰硬脊膜囊内的马尾 cauda equina in lumbar thecal sac
- 5 后根神经节
dorsal root ganglion
- 6 硬脊膜 dura
- 7 硬膜外隙内的脂肪 epidural fat in epidural space
- 8 硬膜外隙内的静脉 epidural veins in epidural space
- 9 竖脊肌
erector spinae muscles
- 10 椎间孔内的脂肪 fat in intervertebral foramen
- 11 下关节突 inferior articular process (facet)
- 12 下腔静脉
inferior vena cava
- 13 椎间盘 intervertebral disc
- 14 椎板 lamina
- 15 黄韧带 ligamentum flavum
- 16 多裂肌 multifidus muscle
- 17 椎弓根 pedicle
- 18 后纵韧带 posterior longitudinal ligament
- 19 腰大肌 psoas muscle
- 20 腹膜后脂肪
retroperitoneal fat
- 21 脊神经根 spinal nerve root
- 22 棘突 spinous process
- 23 上关节突 superior articular process (facet)
- 24 横突 transverse process
- 25 关节突间关节
zygapophysial (facet) joint

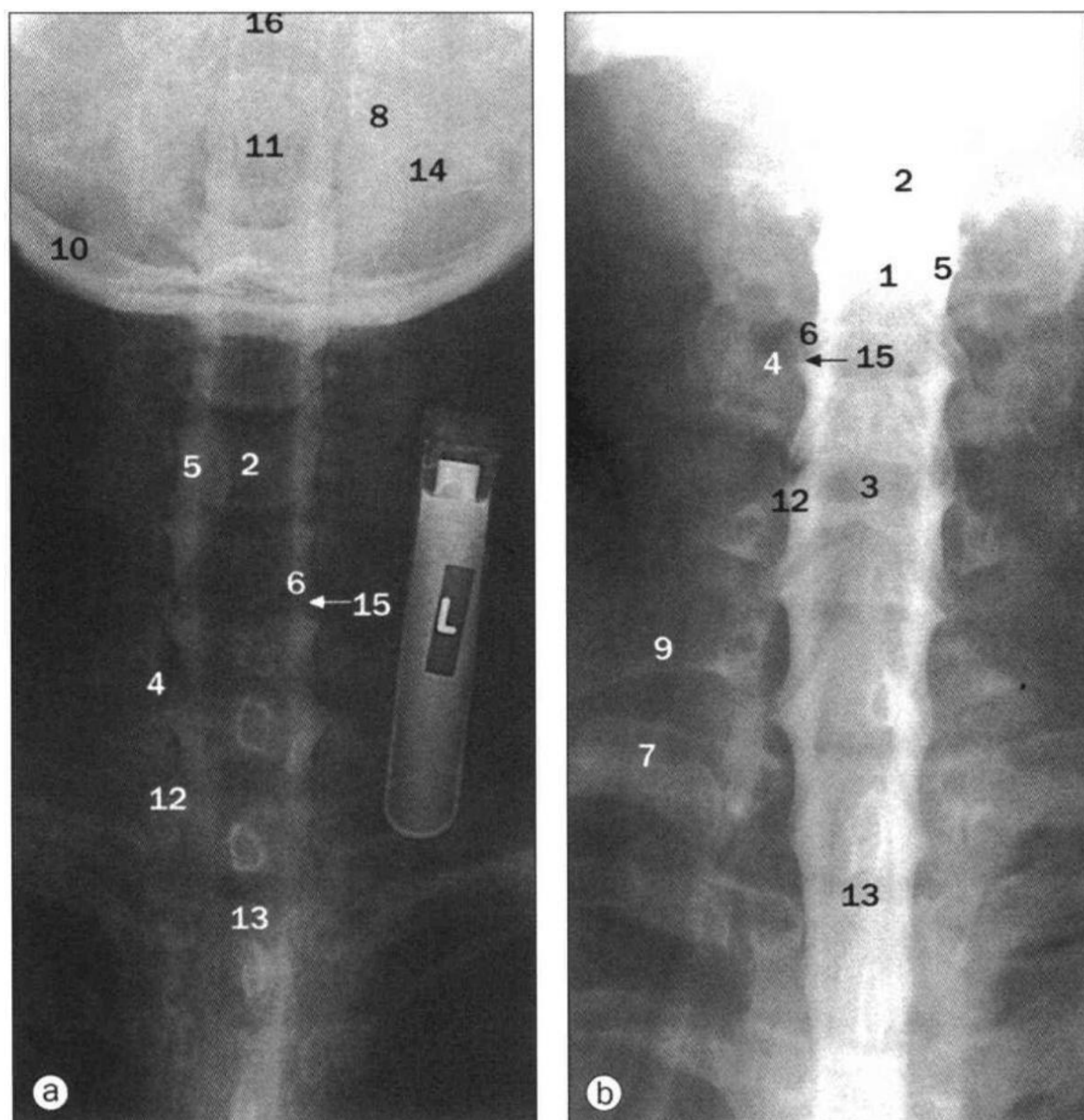
a~f. 腰椎，轴位 MRI。



腰骶椎，MRI。

a. 矢状位；b 旁矢状位；c. 冠状位。

- | | |
|---|---|
| 1 纤维环 annulus fibrosus | 13 椎间孔 intervertebral foramen |
| 2 前纵韧带 anterior longitudinal ligament | 14 肾 kidney |
| 3 椎体静脉 basivertebral veins | 15 黄韧带 ligamentum flavum |
| 4 第3腰椎椎体 body of third lumbar vertebra | 16 髓核 nucleus pulposus |
| 5 马尾 cauda equina | 17 椎弓根 pedicle |
| 6 硬脊膜囊尾端 caudal lumbar thecal sac | 18 后纵韧带和纤维环
posterior longitudinal ligament and annulus fibrosus |
| 7 脑脊液 cerebrospinal fluid | 19 腰大肌 psoas muscle |
| 8 脊髓圆锥 conus medullaris | 20 神经根血管 radicular vessels |
| 9 硬膜外脂肪 epidural fat | 21 骶岬 sacral promontory |
| 10 硬膜外隙 (充满脂肪) epidural space (fat filled) | 22 椎间孔内的脊神经根
spinal nerve root in intervertebral foramen |
| 11 髓核内裂隙 internuclear cleft | |
| 12 棘间韧带和关节囊 interspinous ligament and bursa | |

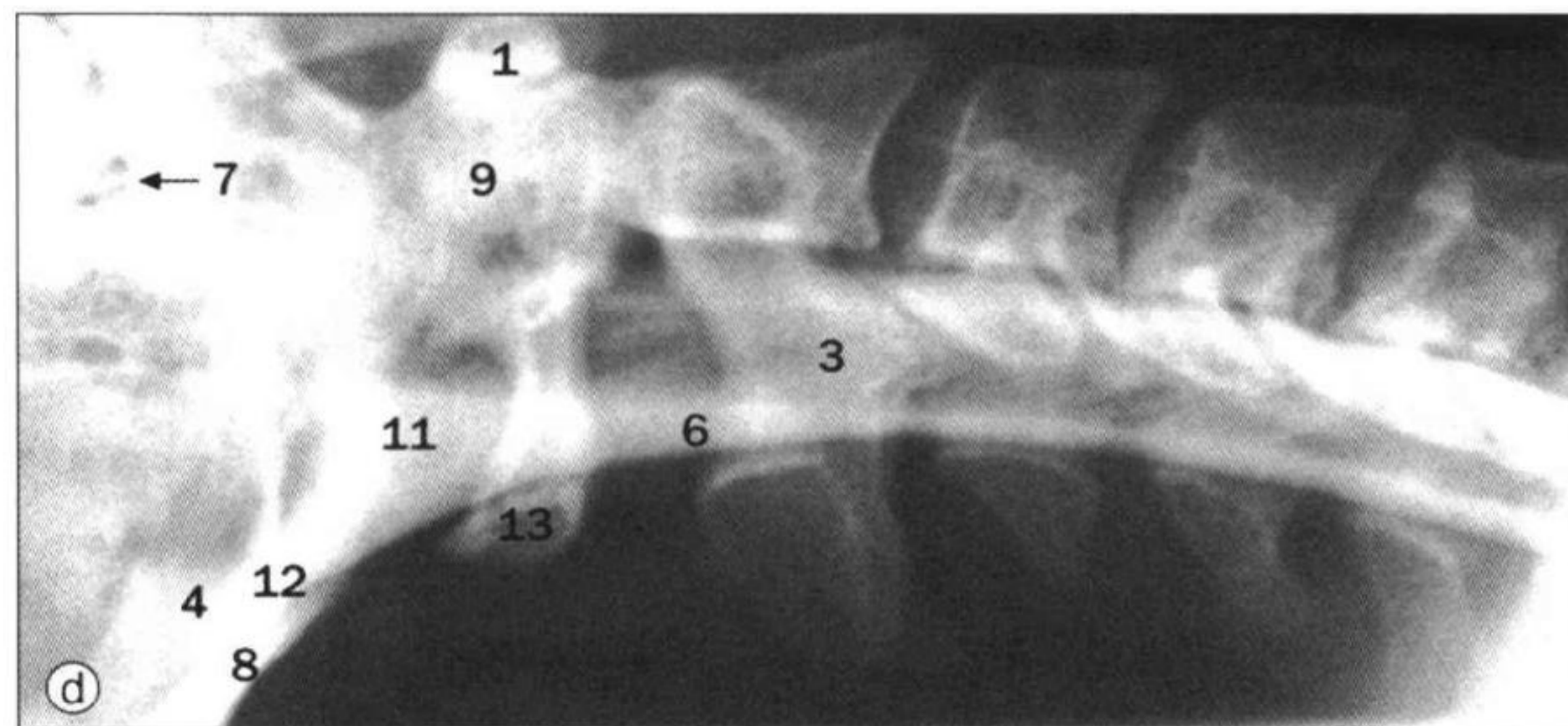
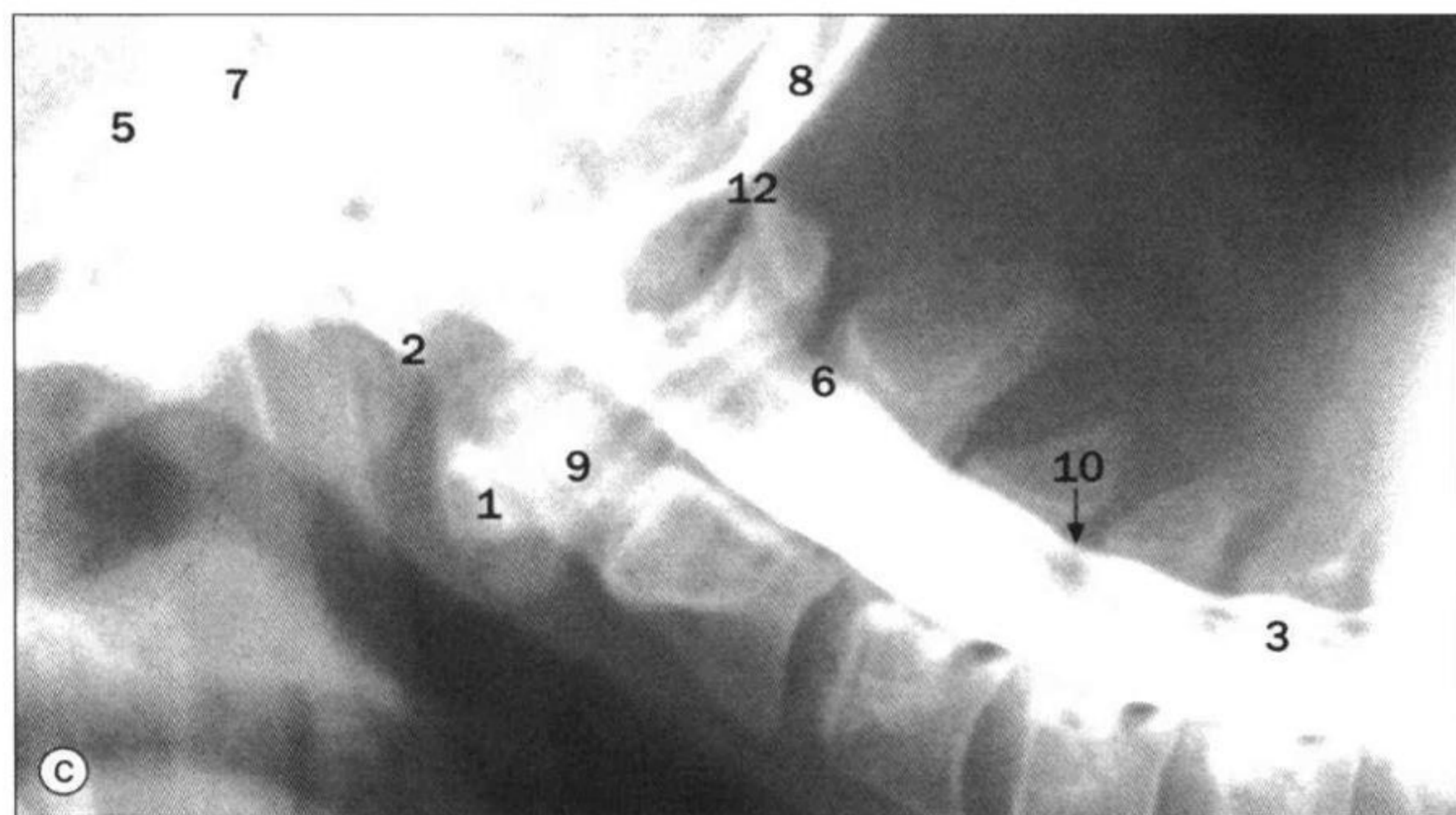


颈髓 X 线造影。

a. 颈伸展位；b. 颈部轻度屈曲，前后位。

通过腰椎穿刺蛛网膜下隙内注入非离子水溶性对比剂，病人俯卧位，颈部过伸，固定在倾斜板上，对比剂就会向上到达颈段，显示出颈髓和神经根。颈神经有 8 对，第 8 颈神经从第 7 颈椎下方的椎间孔穿出。正常颈膨大（即图中标注“3”处，此处发出臂丛神经）从第 3 颈椎到第 2 胸椎，其中第 5 颈椎处最为粗大，不可误认为是髓内病变。

- 1 脊髓前动脉 anterior spinal artery
- 2 颈髓 cervical cord
- 3 颈膨大 cervical cord enlargement
- 4 从椎间孔穿出的颈神经 cervical spinal nerve exiting through intervertebral foramen
- 5 颈部蛛网膜下隙内的对比剂 contrast medium in cervical subarachnoid space
- 6 脊神经后根 dorsal root of spinal nerve
- 7 第 1 肋 first rib
- 8 寰椎侧块 lateral mass of atlas (first cervical vertebra)
- 9 第 7 颈椎正常的大横突 normal large transverse process of seventh cervical vertebra
- 10 枕骨 occiput
- 11 齿突 odontoid process (dens)
- 12 第 8 颈神经根 root of eighth cervical nerve
- 13 胸髓 thoracic cord
- 14 横突孔 transverse foramen
- 15 脊神经前根 ventral root of spinal nerve
- 16 椎动脉 vertebral artery

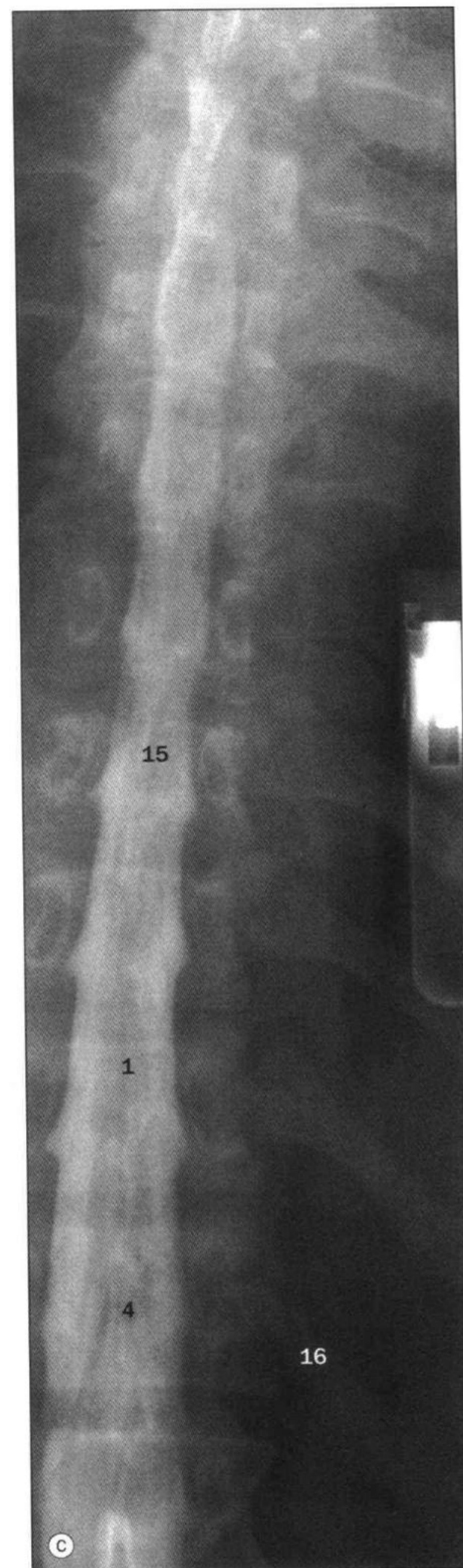
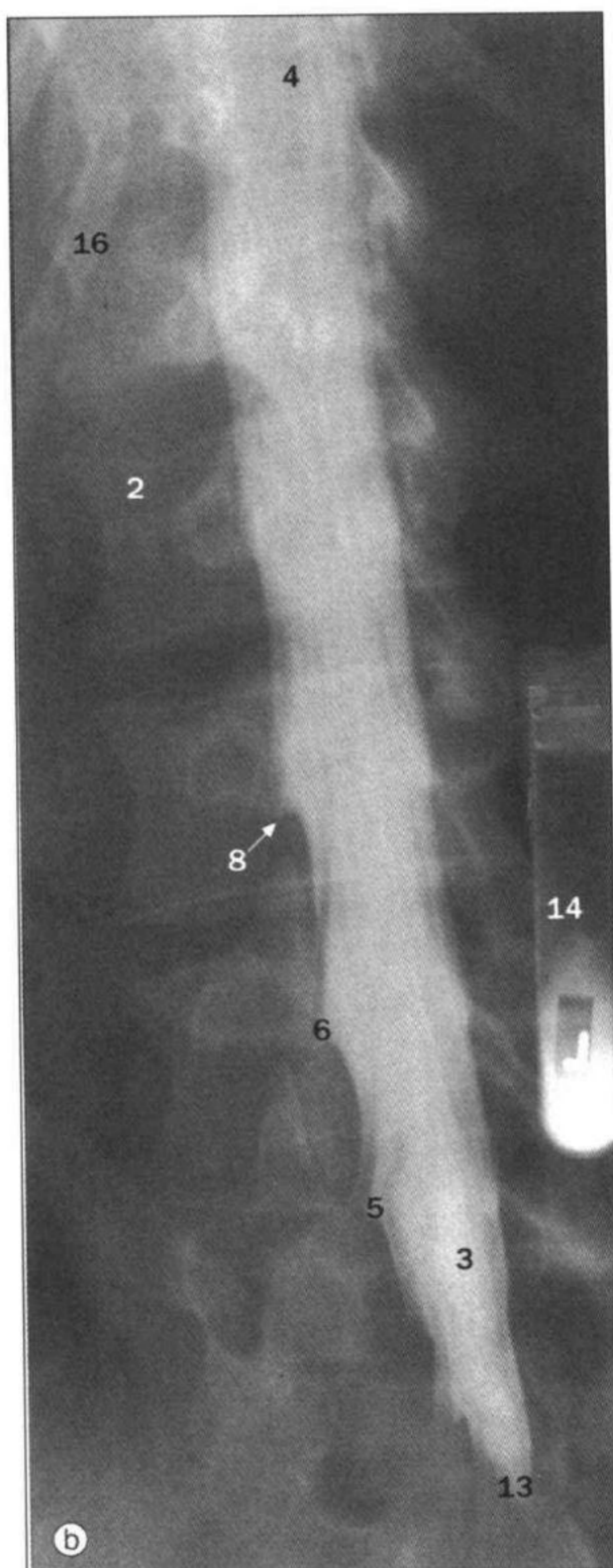
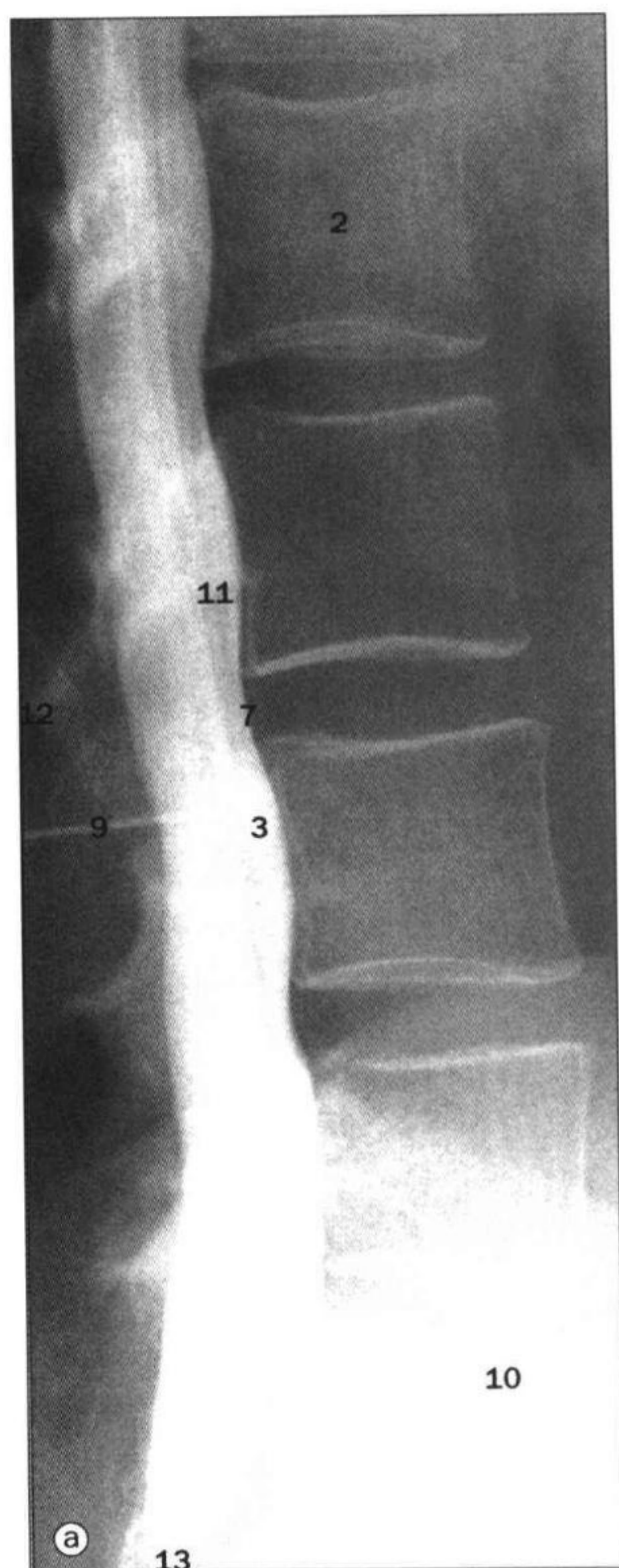


颈髓侧位 X 线造影。c. 俯卧位；d. 仰卧位。

- 1 寰椎前弓 anterior arch of atlas (first cervical vertebra)
- 2 枕骨大孔前缘 anterior rim of foramen magnum
- 3 颈髓 cervical cord
- 4 枕大池（小脑延髓池） cisterna magna (cerebellomedullary cistern)
- 5 斜坡 clivus
- 6 颈部蛛网膜下隙内的对比剂 contrast medium in cervical subarachnoid space
- 7 外耳门 external acoustic meatus
- 8 枕骨 occiput
- 9 齿突 odontoid (process) dens
- 10 硬脊膜囊来自黄韧带的后部切迹 posterior indentation on theca from ligamentum flavum
- 11 小脑后下动脉 posterior inferior cerebellar artery
- 12 枕骨大孔后缘 posterior rim of foramen magnum
- 13 寰椎后结节 posterior tubercle of atlas (first cervical vertebra)

腰椎神经根 X 线造影。a. 侧位；b. 斜位；c. 前后位。

通过腰椎穿刺将非离子水溶性对比剂注入腰椎蛛网膜下隙，显示从椎间孔发出的马尾神经根。神经根由脊髓圆锥发出直到硬脊膜囊终端，最后由椎弓根下方穿出。硬脊膜囊止于第 1 或第 2 骶椎，终丝可以辨认。使俯卧位的病人头部向下轻度倾斜，让对比剂流向头端到达圆锥和胸髓下段，可见脊髓从第 2 到第 10 胸椎大小一致，而从第 10 胸椎到第 1 腰椎出现第 2 个膨大（发出腰骶神经丛）。脊髓圆锥通常止于第 1 或第 2 腰椎，但正常变异也可止于该节段上下。



- | | |
|---|--|
| 1 前正中裂 anterior median fissure | 10 骶岬 sacral promontory |
| 2 第 2 腰椎椎体 body of second lumbar vertebra | 11 蛛网膜下隙内的脊神经 (马尾) spinal nerves within subarachnoid space (cauda equina) |
| 3 蛛网膜下隙内的对比剂 contrast medium in subarachnoid space | 12 第 3 腰椎棘突 spinous process of third lumbar vertebra |
| 4 脊髓圆锥 conus medullaris | 13 第 1 或第 2 骶椎的硬脊膜囊止点 terminal theca at first / second sacral vertebra |
| 5 第 5 腰神经 fifth lumbar spinal nerve | 14 用来显示病人倾斜度的装有对比剂的试管 test tube containing contrast medium to indicate tilt of patient |
| 6 第 4 腰神经 fourth lumbar spinal nerve | 15 胸髓 thoracic cord |
| 7 硬脊膜囊前缘的椎间盘压迹 intervertebral disc indentations in anterior thecal margin | 16 第 12 肋 twelfth rib |
| 8 脊神经根周围蛛网膜下隙的外侧延伸 lateral extension of subarachnoid space around spinal nerve roots | |
| 9 第 3、4 腰椎间隙内的腰椎穿刺针 lumbar puncture needle in space between third and fourth lumbar vertebrae | |



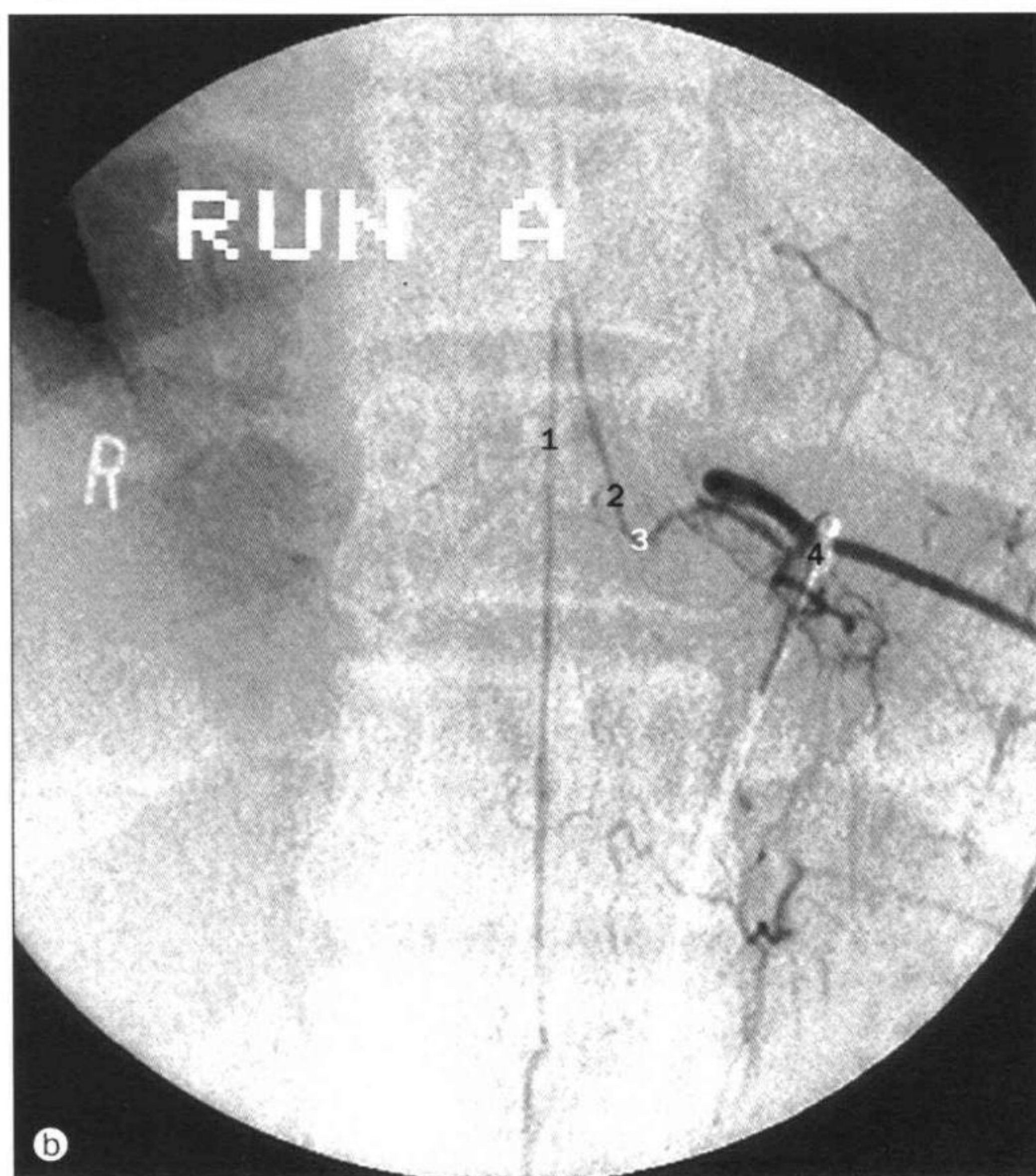
a. 腰椎静脉造影减影。

自从 CT 和 MRI 技术引入后，腰椎静脉造影很少被应用了，然而该方法对腰椎静脉的解剖却有很理想的显影，脊髓的静脉引流通过静脉丛纵向排列，它们自由地与脊椎内外静脉丛吻合，并互相沟通。

- 1 腰升静脉 ascending lumbar veins
- 2 椎体静脉 basivertebral veins
- 3 髂总静脉内的导管 catheter in common iliac vein
- 4 椎间静脉 intervertebral veins
- 5 骶外侧静脉 lateral sacral veins
- 6 脊椎纵向静脉丛 longitudinal vertebral venous plexi
- 7 骶静脉丛 sacral venous plexus
- 8 椎静脉内的导管头 tip of catheter in intravertebral vein

b. 脊椎动脉造影。

- 1 脊髓前动脉 anterior spinal artery
- 2 前根大动脉 arteria radicularis magna (Adamkiewicz)
- 3 前根大动脉经硬脊膜的狭窄处
normal transdural stenosis of the arteria radicularis magna
- 4 左第 11 肋间动脉内的导管
catheter of left eleventh intercostal artery

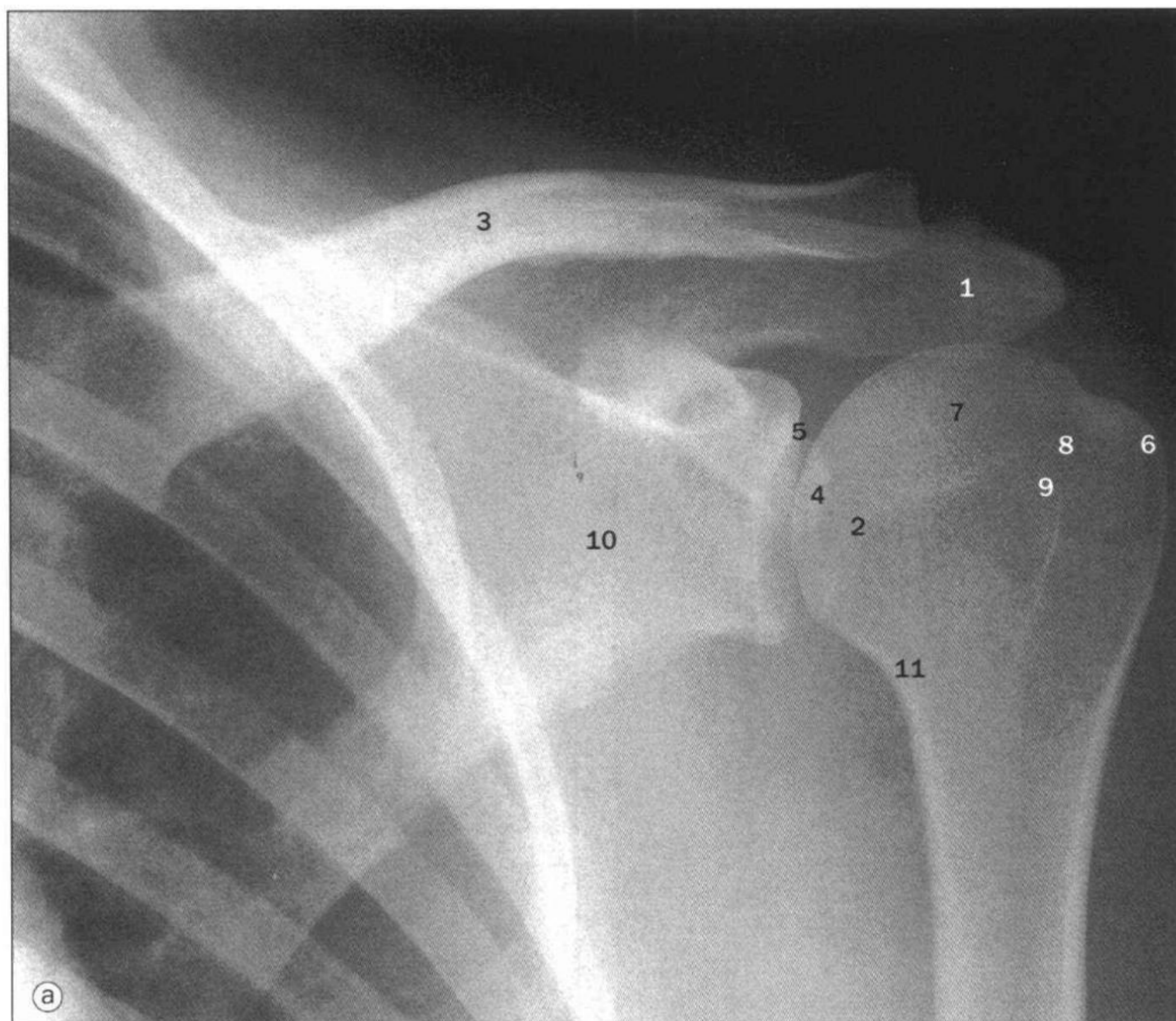


4

上肢

a. 肩, 前后位 X 线。

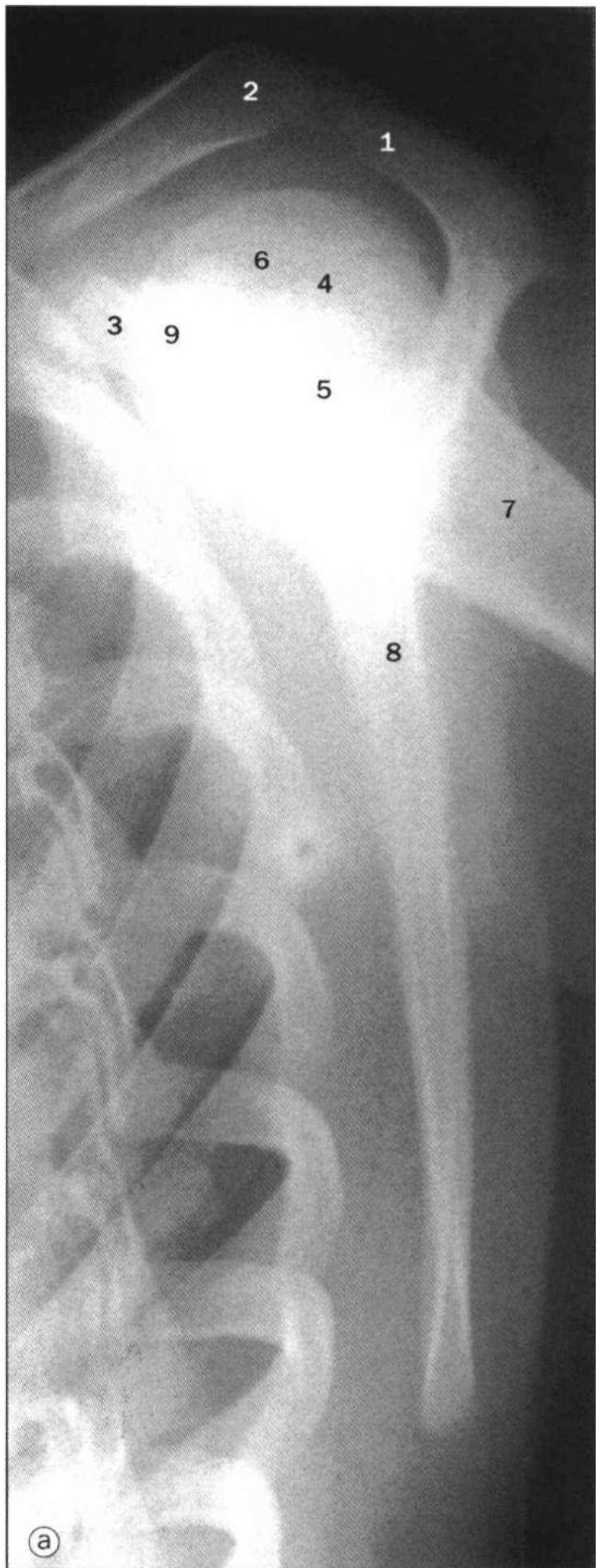
- 1 肩峰 acromion of scapula
- 2 解剖颈 anatomical neck
- 3 锁骨 clavicle
- 4 喙突 coracoid process of scapula
- 5 关节盂 glenoid fossa of scapula
- 6 肱骨大结节
greater tubercle (tuberosity) of humerus
- 7 肱骨头 head of humerus
- 8 肱骨结节间沟
intertubercular groove of humerus
- 9 肱骨小结节
lesser tubercle (tuberosity) of humerus
- 10 肩胛骨 scapula
- 11 外科颈 surgical neck



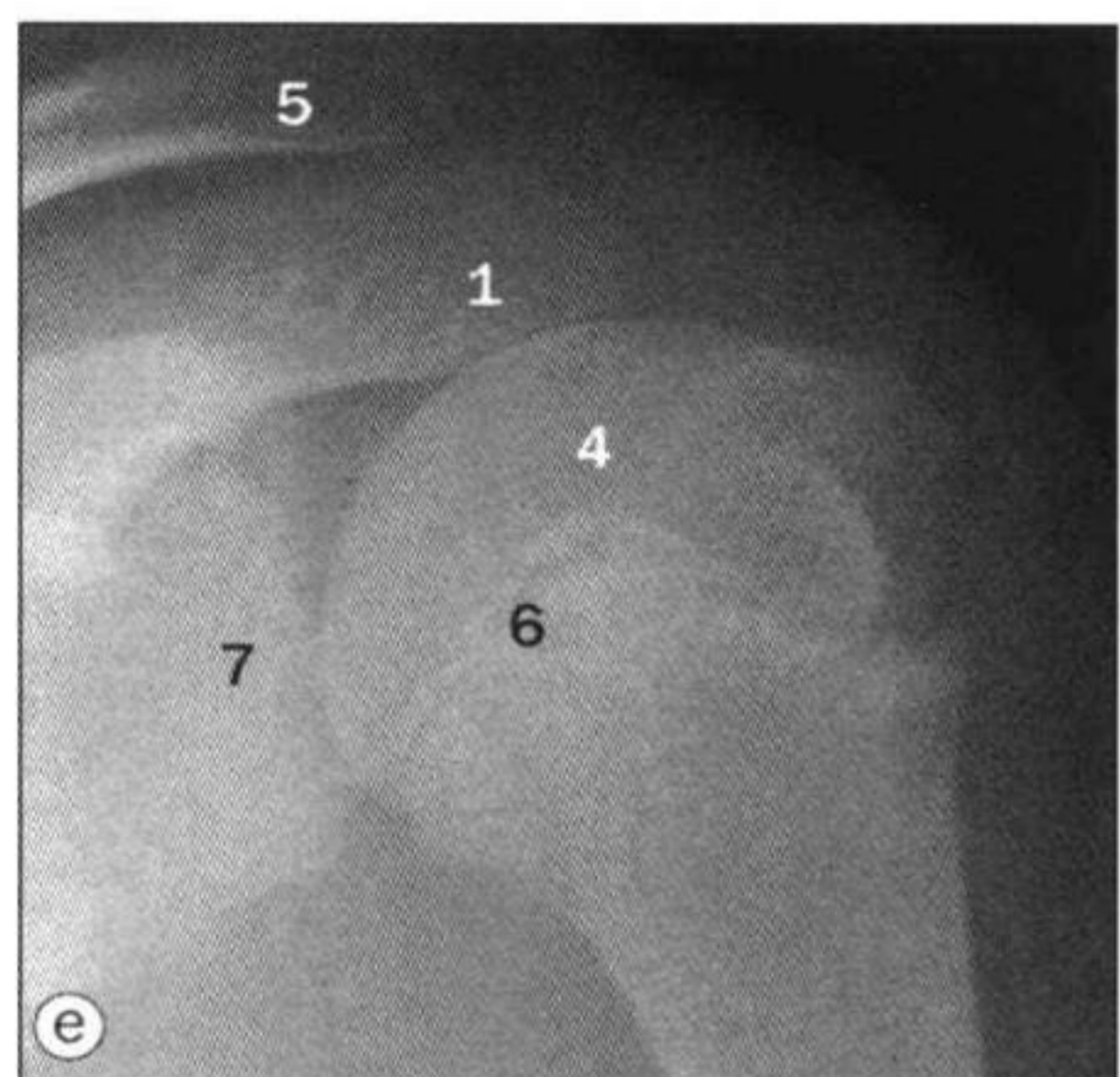
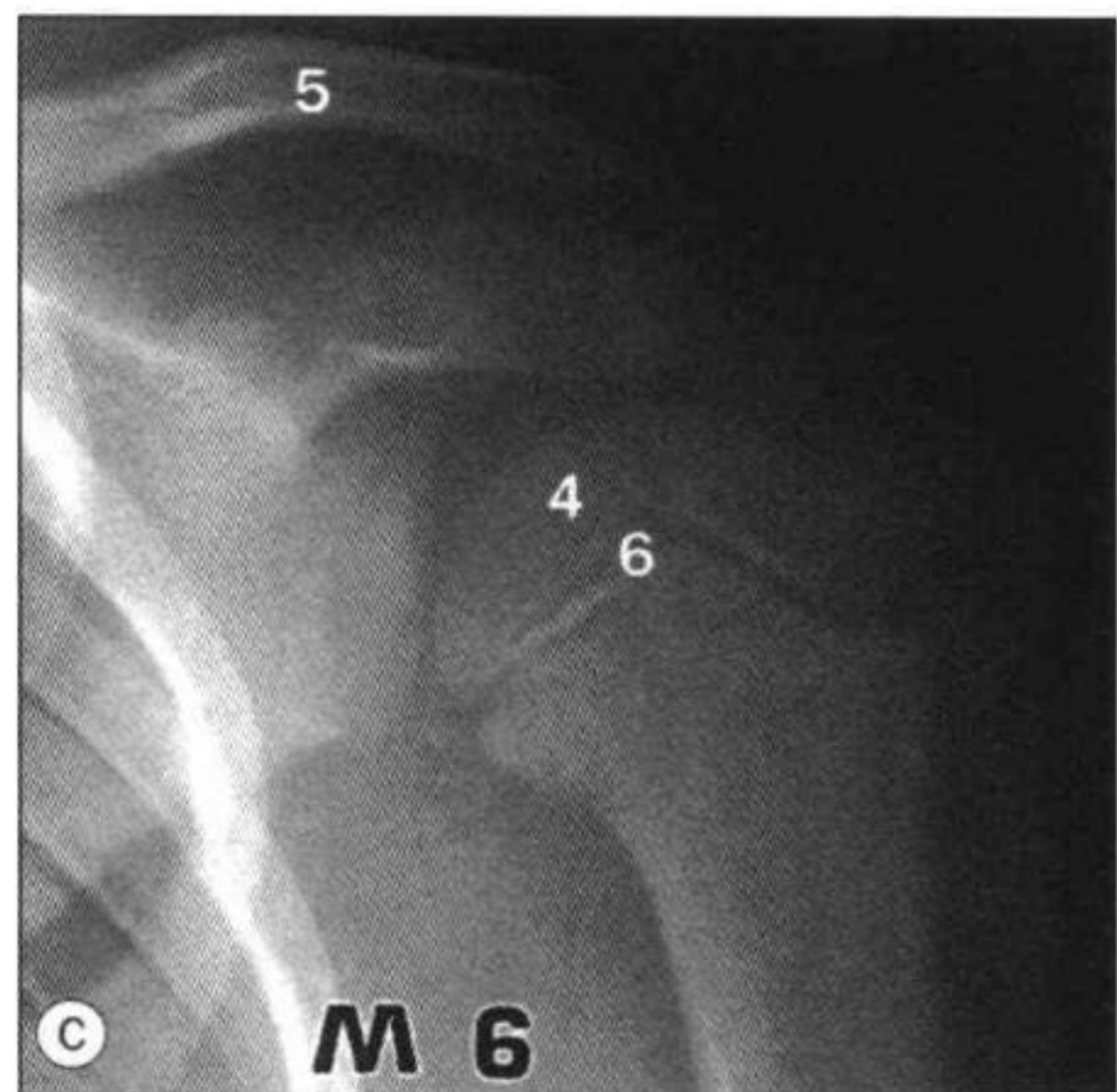
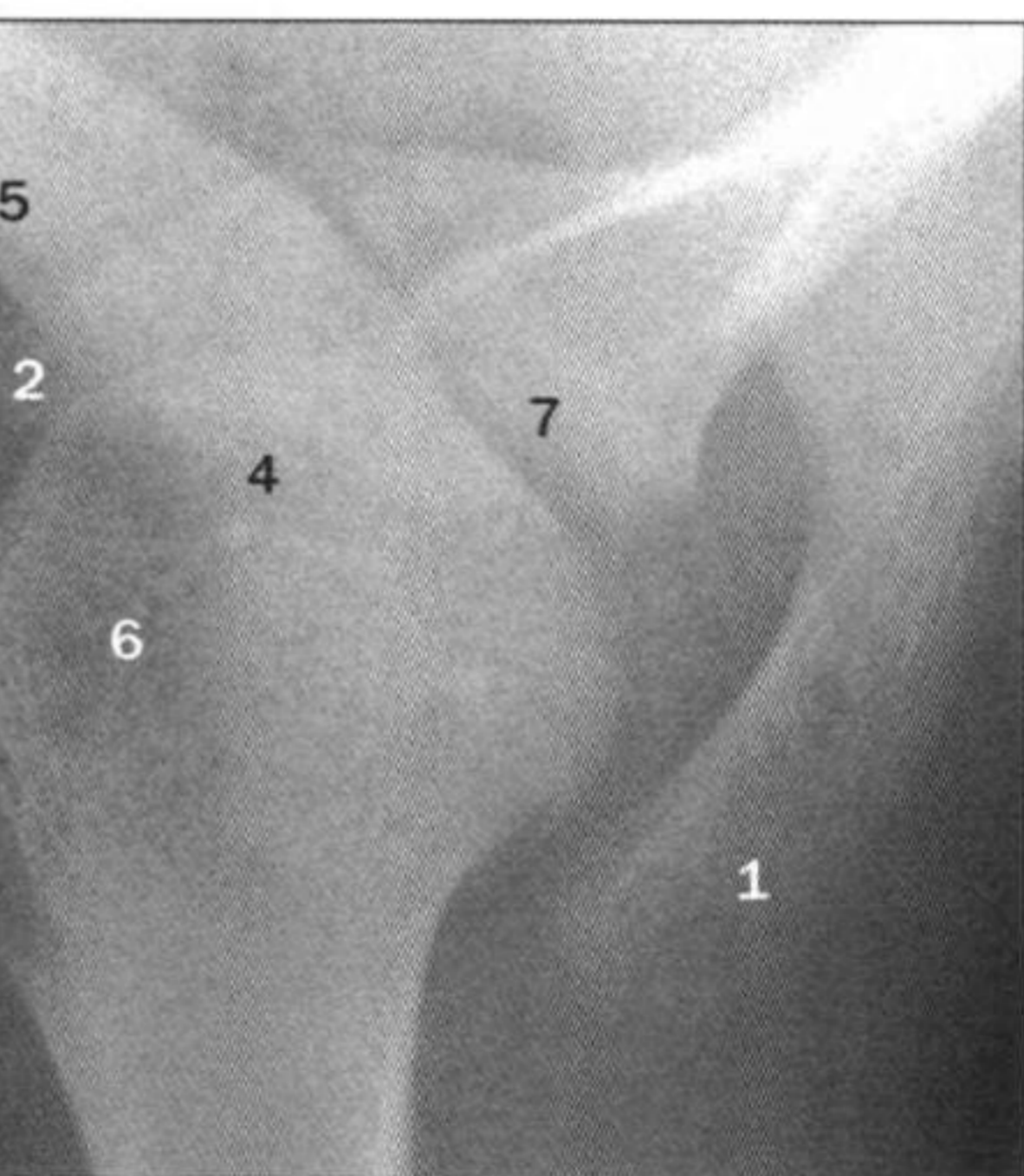
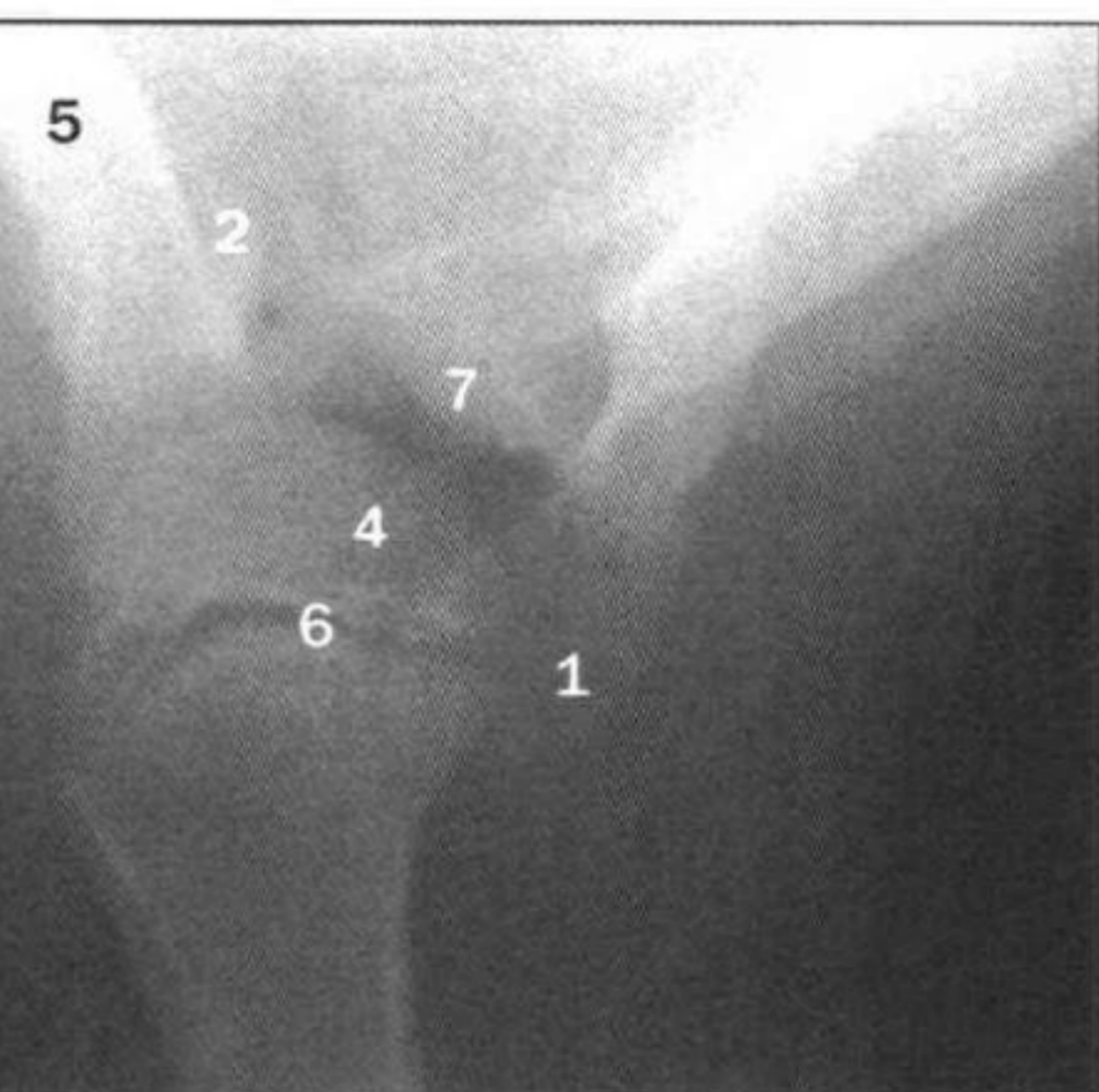
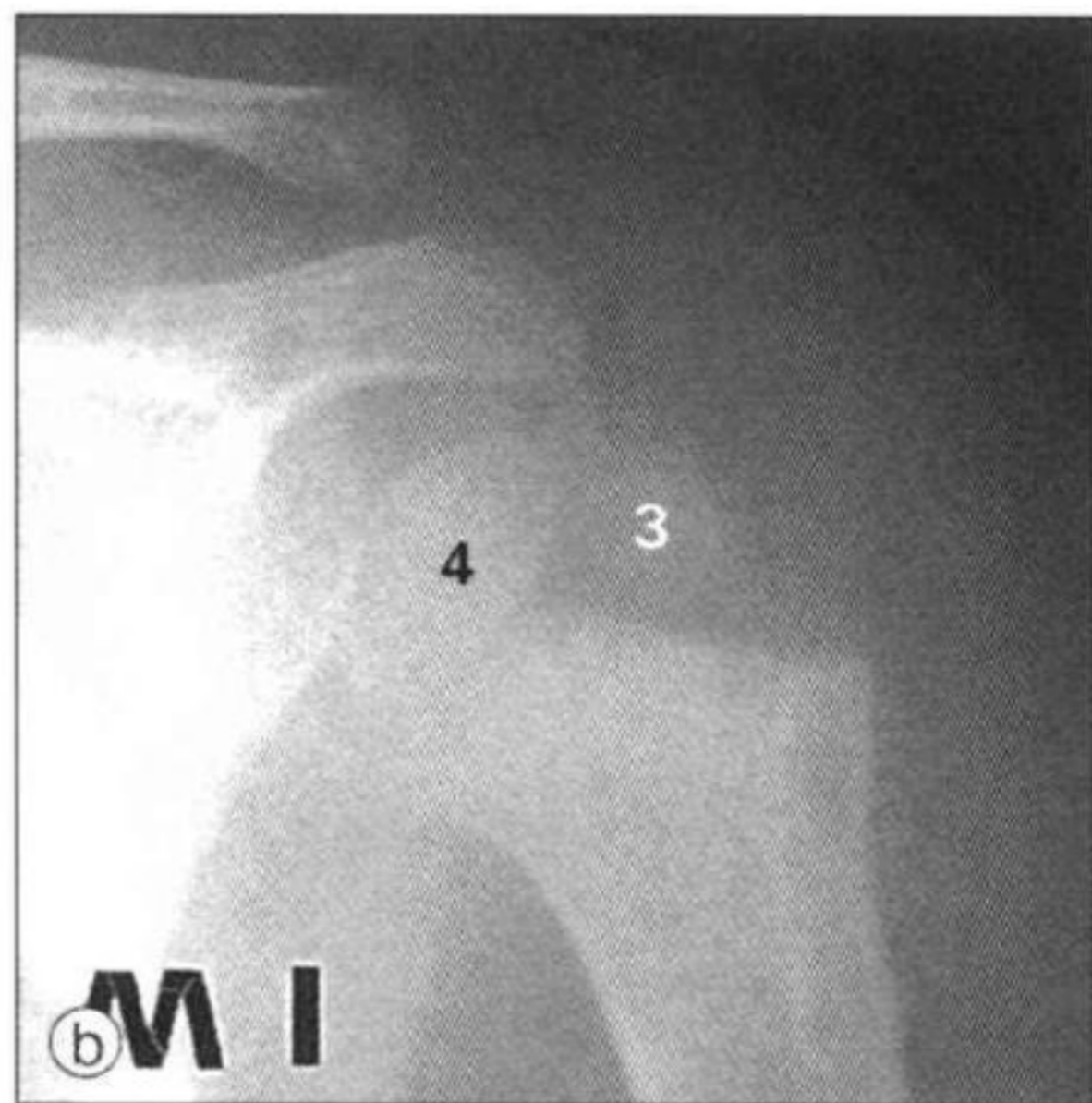
b. 肩, 轴位 (上下位) X 线。

- 1 肩峰 acromion of scapula
- 2 锁骨 clavicle
- 3 喙突 coracoid process of scapula
- 4 关节盂 glenoid fossa of scapula
- 5 肱骨大结节
greater tubercle (tuberosity) of humerus
- 6 肱骨头 head of humerus
- 7 肱骨结节间沟
intertubercular groove of humerus
- 8 肱骨小结节
lesser tubercle (tuberosity) of humerus
- 9 肩胛冈 spine of scapula





a. 14岁男孩，肩，侧位X线。

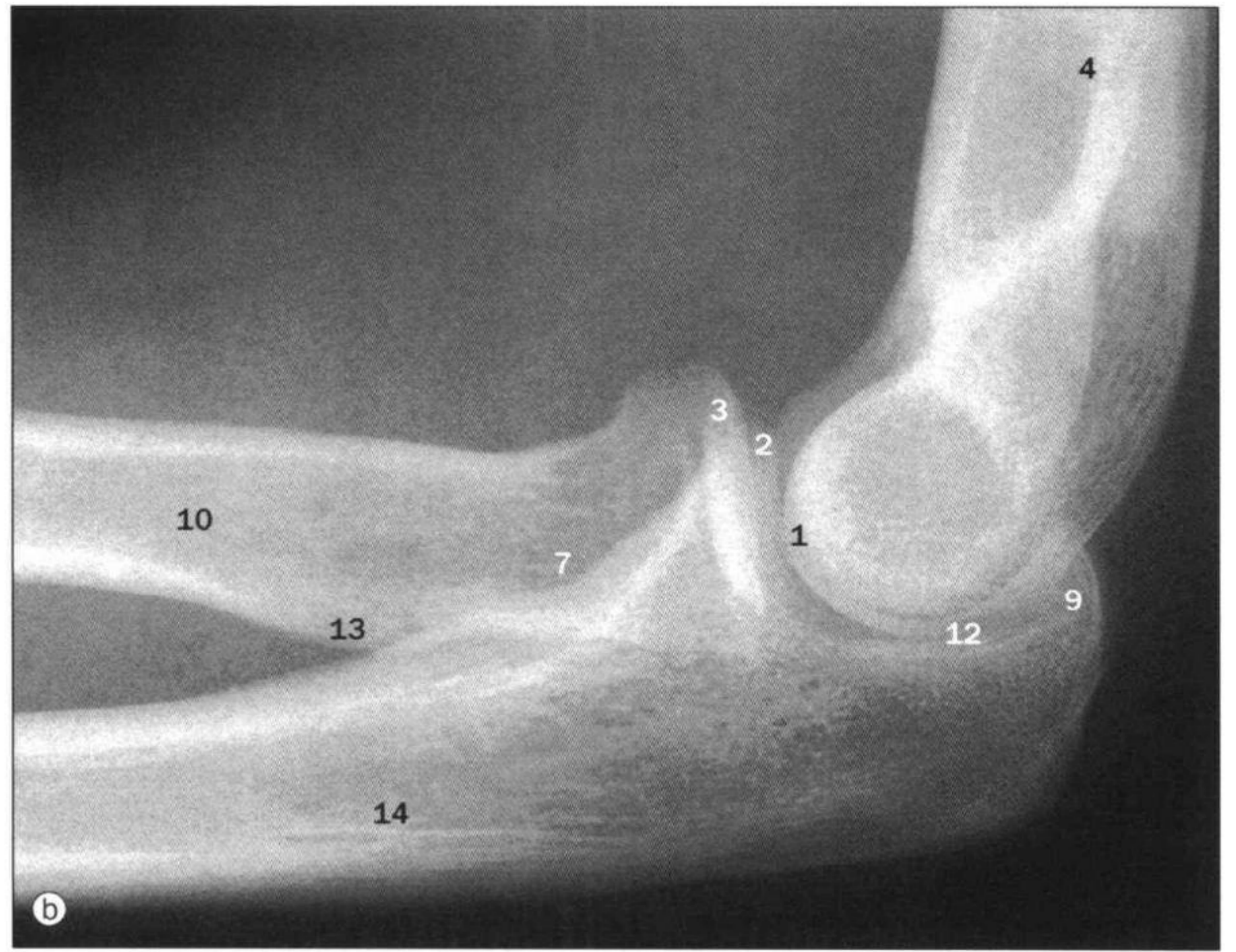
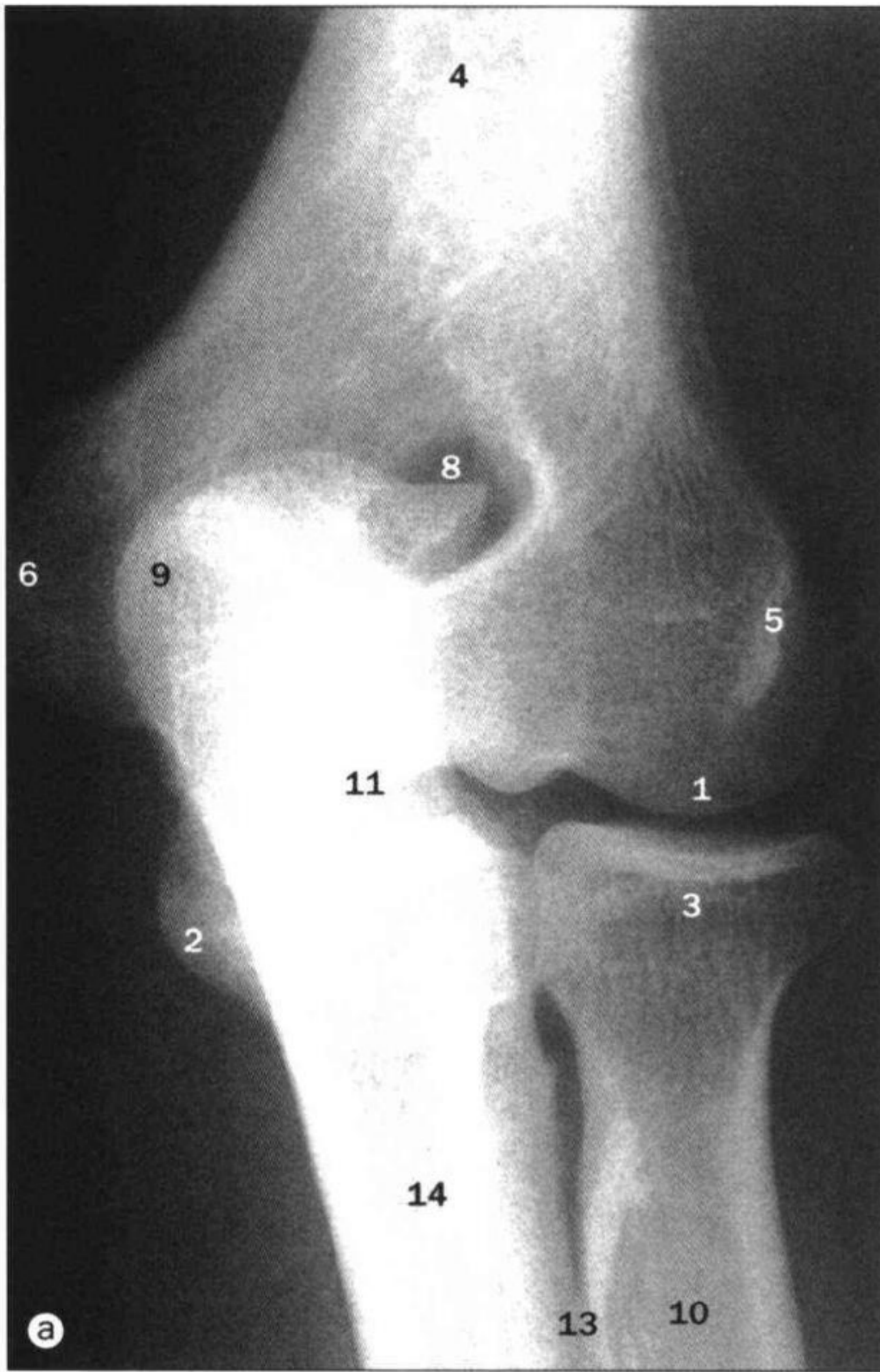


b. 1岁儿童，肩，前后位X线；
c. 6岁儿童，肩，前后位X线；
d. 6岁儿童，肩，轴位X线；
e. 14岁儿童，肩，前后位X线；
f. 14岁儿童，肩，轴位X线。

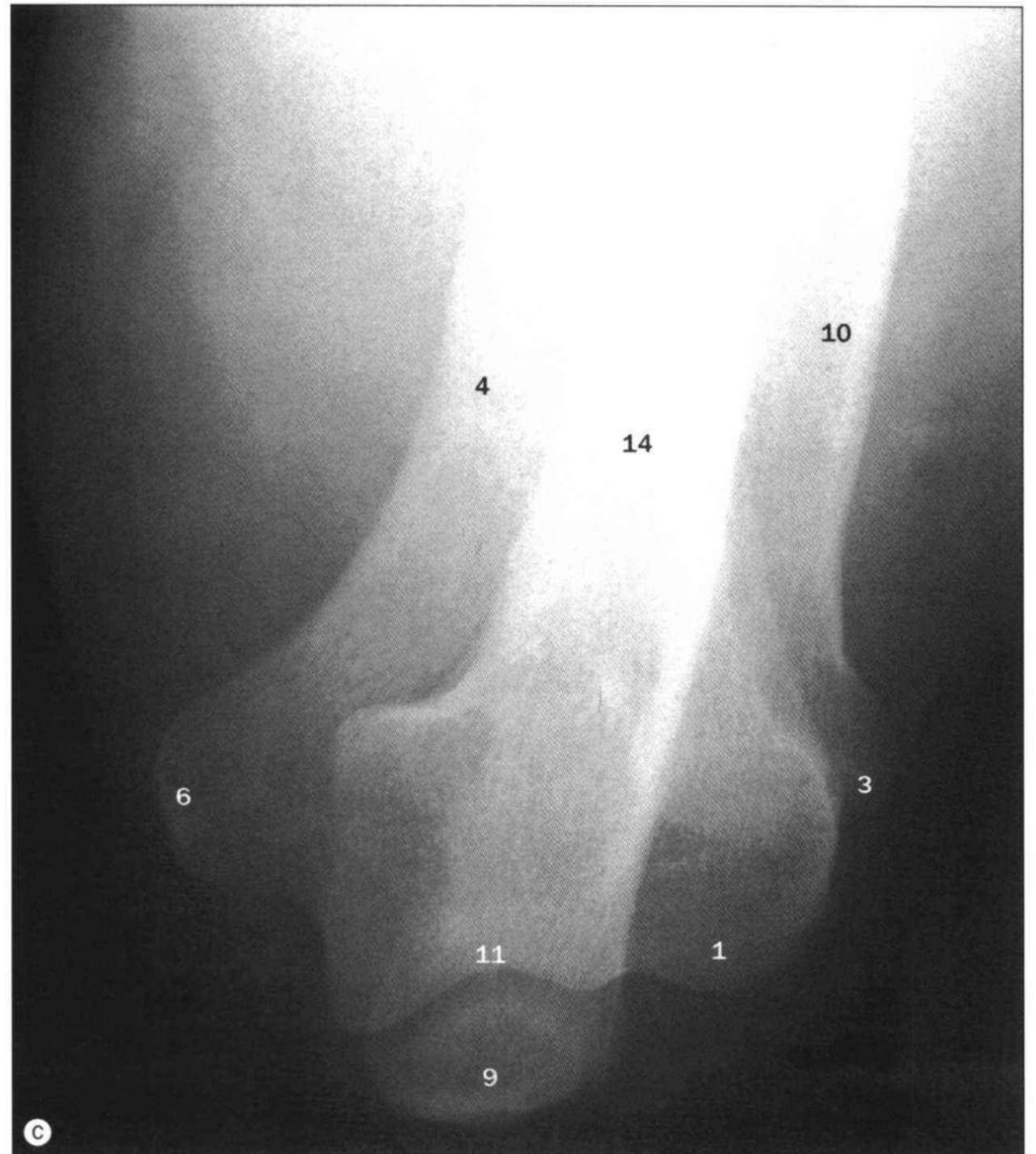
- 1 肩峰 acromion of scapula
- 2 喙突骨化中心 centre for coracoid process
- 3 肱骨大结节骨化中心 centre for greater tubercle (tuberosity) of humerus
- 4 肱骨头骨化中心 centre for head of humerus
- 5 锁骨 clavicle
- 6 骺线 epiphysial line
- 7 肩胛骨关节盂 glenoid fossa of scapula

- 1 肩峰 acromion
- 2 锁骨 clavicle
- 3 喙突 coracoid process
- 4 骺线 epiphysial line
- 5 关节盂 glenoid fossa
- 6 肱骨头 head of humerus
- 7 肱骨 humerus
- 8 肩胛骨外侧缘 lateral border of scapula
- 9 肩胛冈 spine of scapula

锁骨 (骨膜骨化)	出现	融合
外端	5周胎龄	20岁以上
内端	15岁	20岁以上
肩胛骨 (软骨骨化)	出现	融合
体	8周胎龄	15岁
喙突	<1岁	20岁
喙突基底	青春期	15~20岁
肩峰	青春期	15~20岁

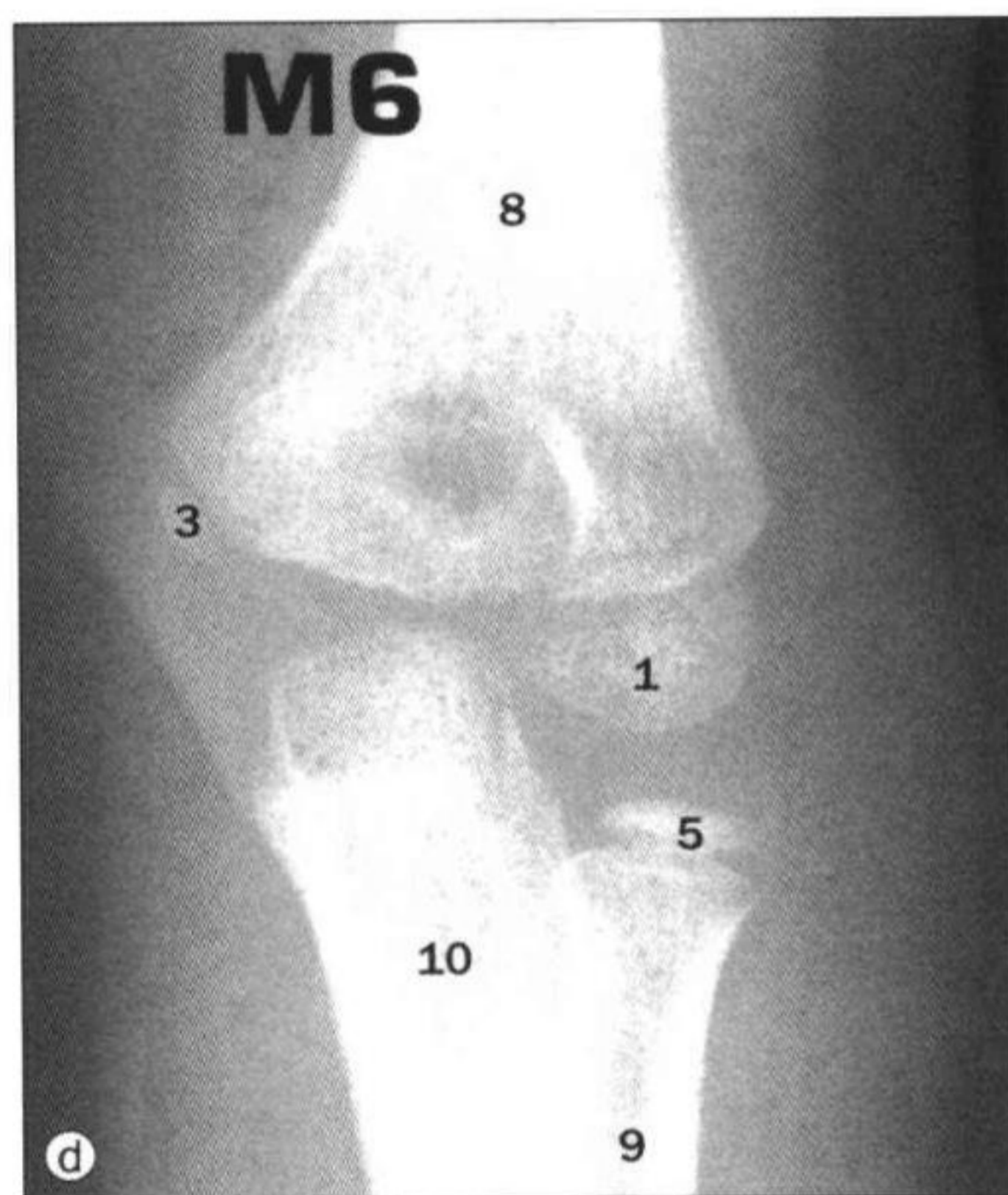
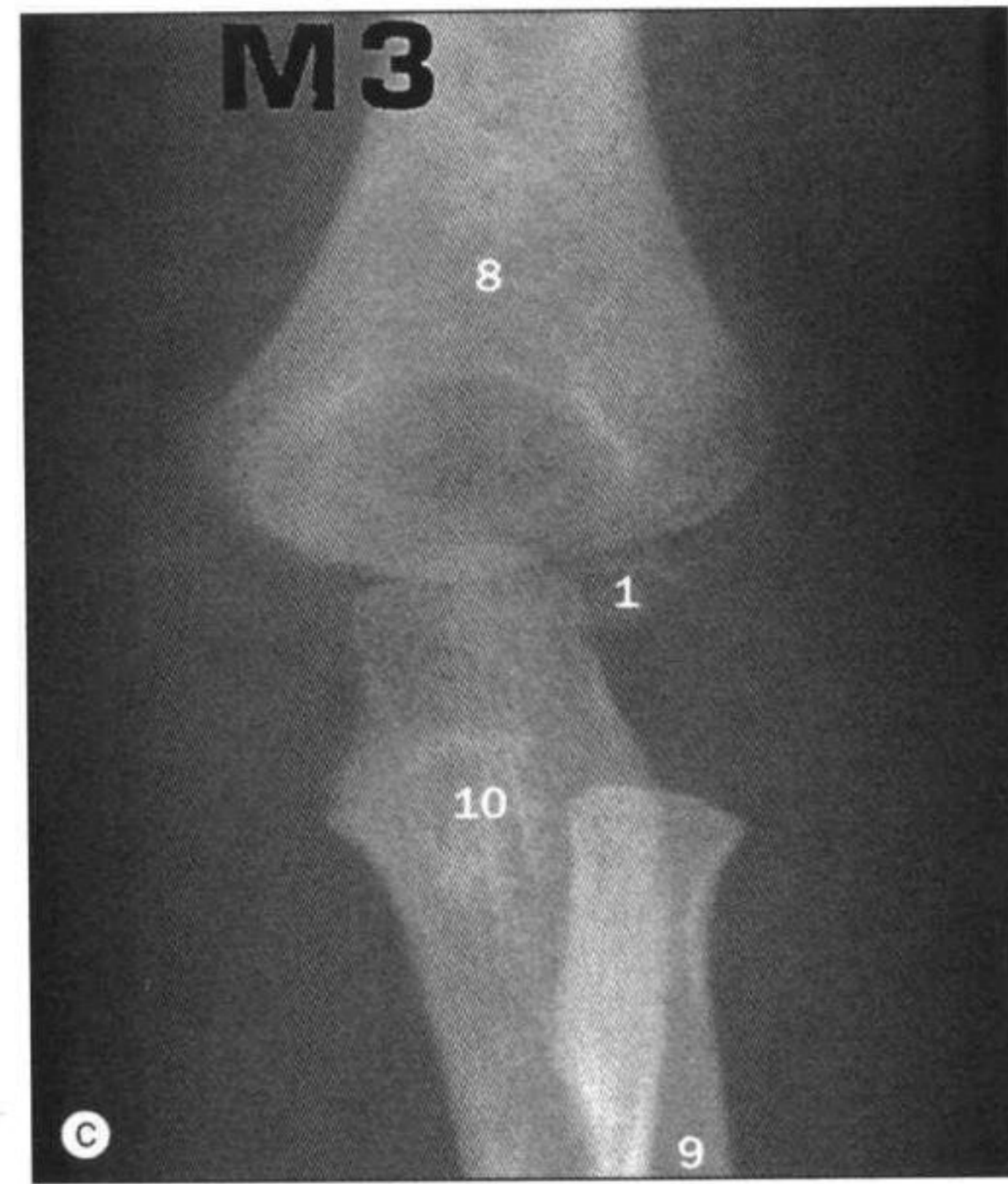
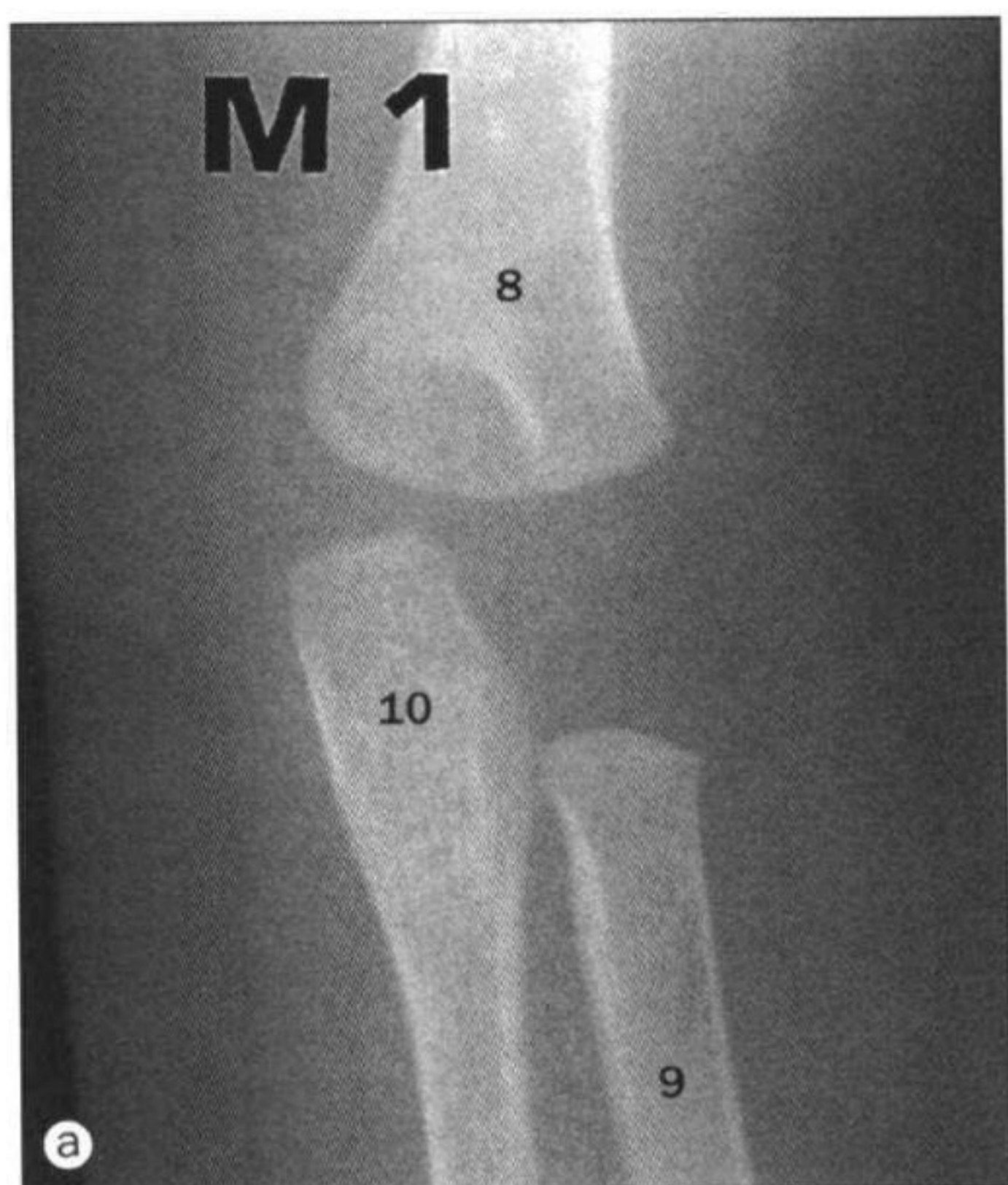


肘, X线。a. 前后位; b. 侧位; c. 轴位。

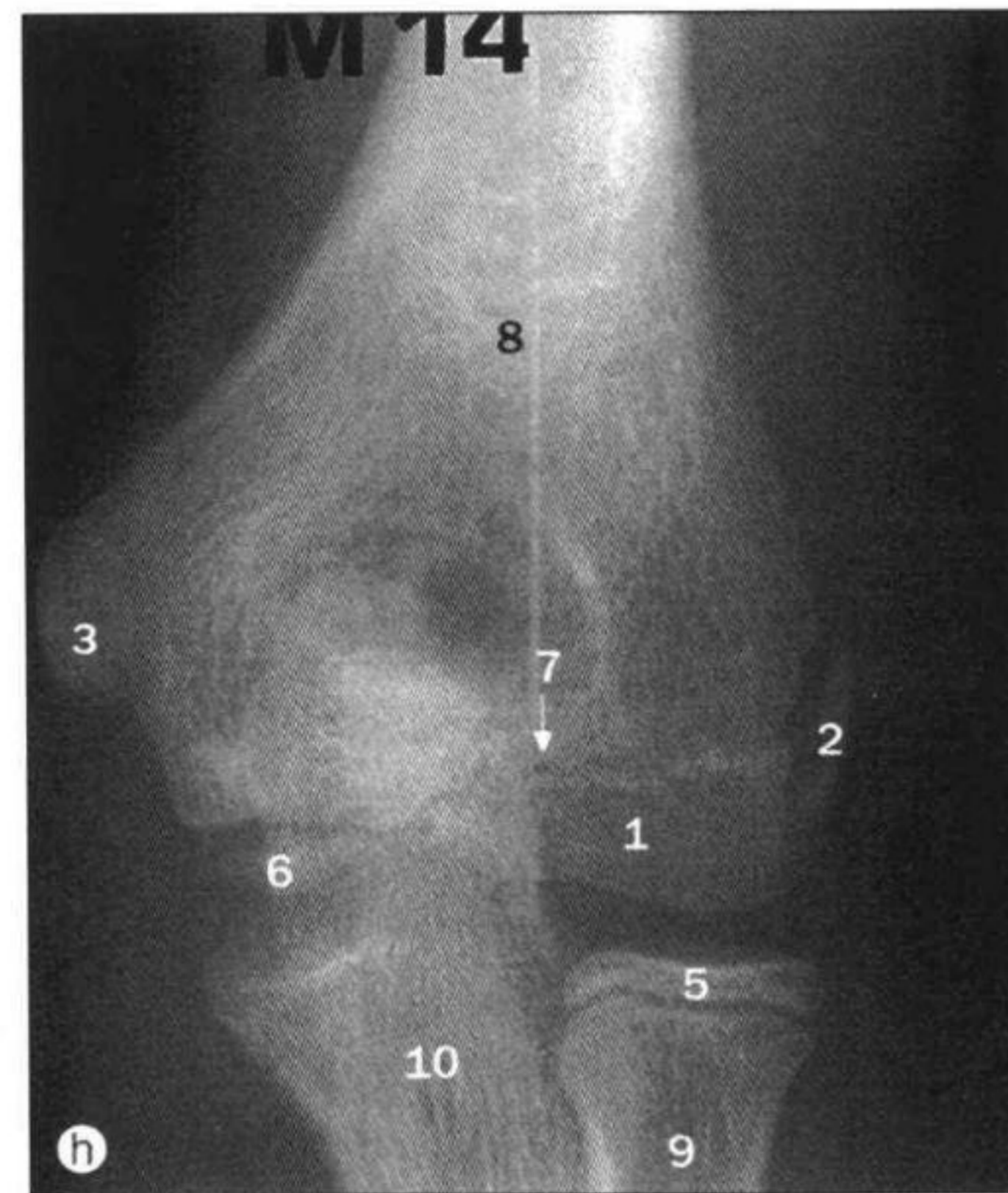
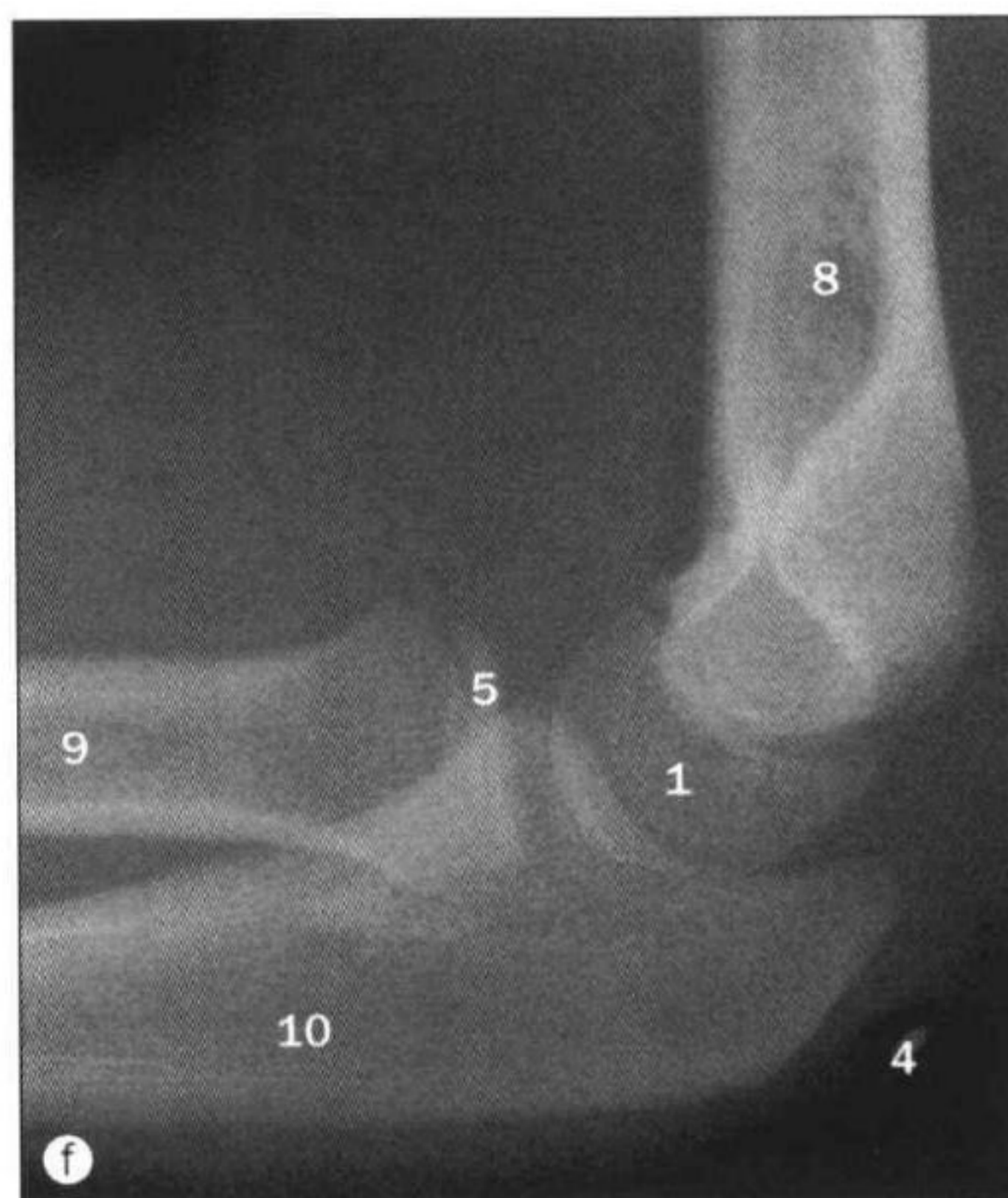
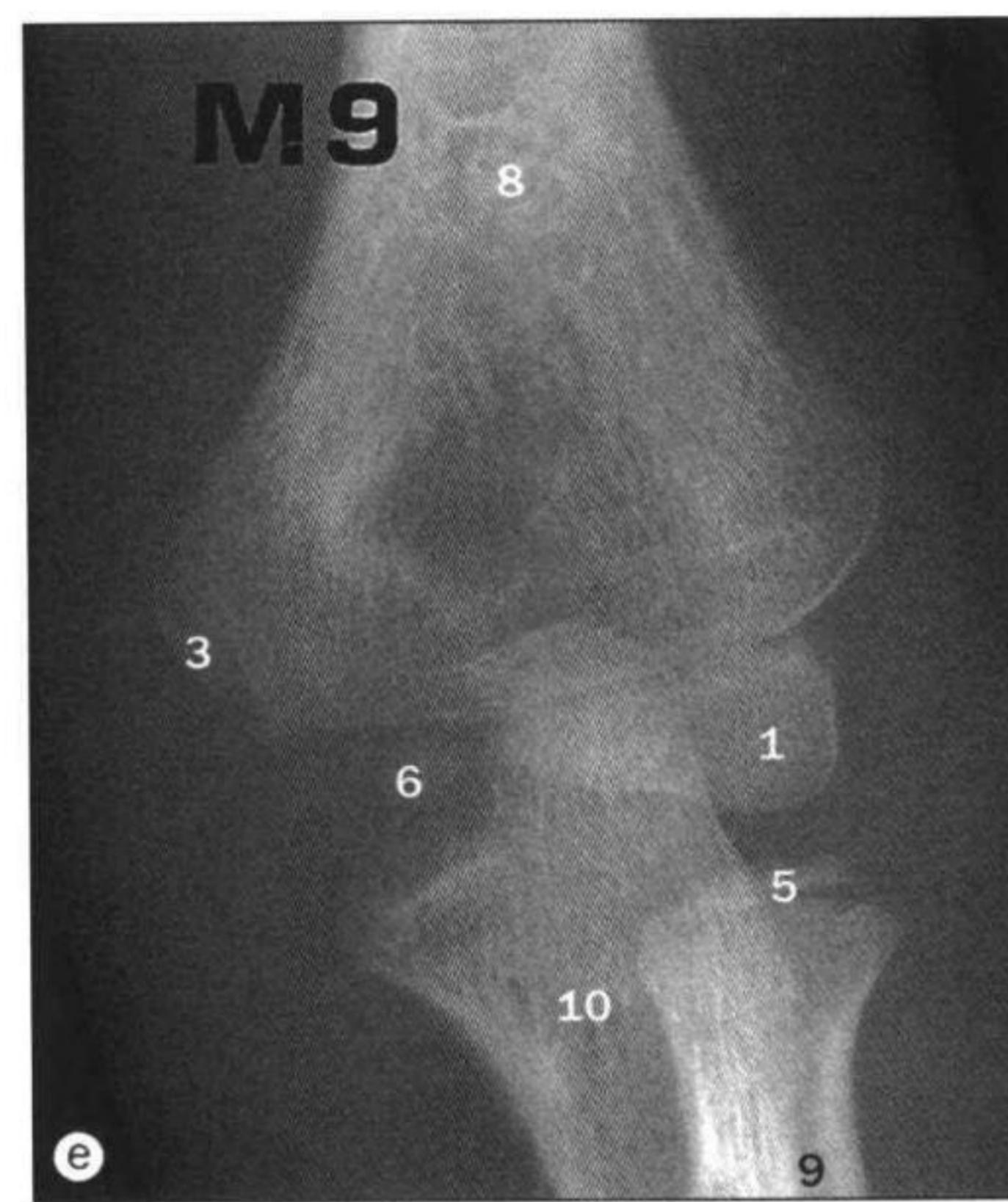


- 1 肱骨小头 capitulum of humerus
- 2 尺骨冠突 coronoid process of ulna
- 3 桡骨头 head of radius
- 4 肱骨 humerus
- 5 肱骨外上髁 lateral epicondyle of humerus
- 6 肱骨内上髁 medial epicondyle of humerus
- 7 桡骨颈 neck of radius
- 8 肱骨鹰嘴窝 olecranon fossa of humerus
- 9 尺骨鹰嘴 olecranon of ulna
- 10 桡骨 radius
- 11 肱骨滑车 trochlea of humerus
- 12 尺骨滑车切迹 trochlear notch of ulna
- 13 桡骨粗隆 tuberosity of radius
- 14 尺骨 ulna

肱骨(软骨骨化)	出现	融合
体	8周胎龄	15~20岁
头	1~6个月	15~20岁
大结节	6个月~1岁	15~20岁
小结节	3~5岁	18~20岁
小头	4个月~1岁	13~16岁
滑车	10岁	13~16岁
内上髁	3~6岁	13~16岁
外上髁	9~12岁	13~16岁
桡骨(软骨骨化)	出现	融合
体	8周胎龄	
近端	4~6岁	13~16岁
远端	1岁	16~18岁
尺骨(软骨骨化)	出现	融合
体	8周胎龄	
近端	8~10岁	13~15岁
远端	5~7岁	16~18岁



肘部 X 线片，显示各骨骨化中心。
a. 1 岁儿童（前后位）；b. 3 岁儿童（侧位）；c. 3 岁儿童（前后位）；d. 6 岁儿童（前后位）；e. 9 岁儿童（前后位）；f. 11 岁儿童（侧位）；g. 14 岁儿童（侧位）；h. 14 岁儿童（前后位）。

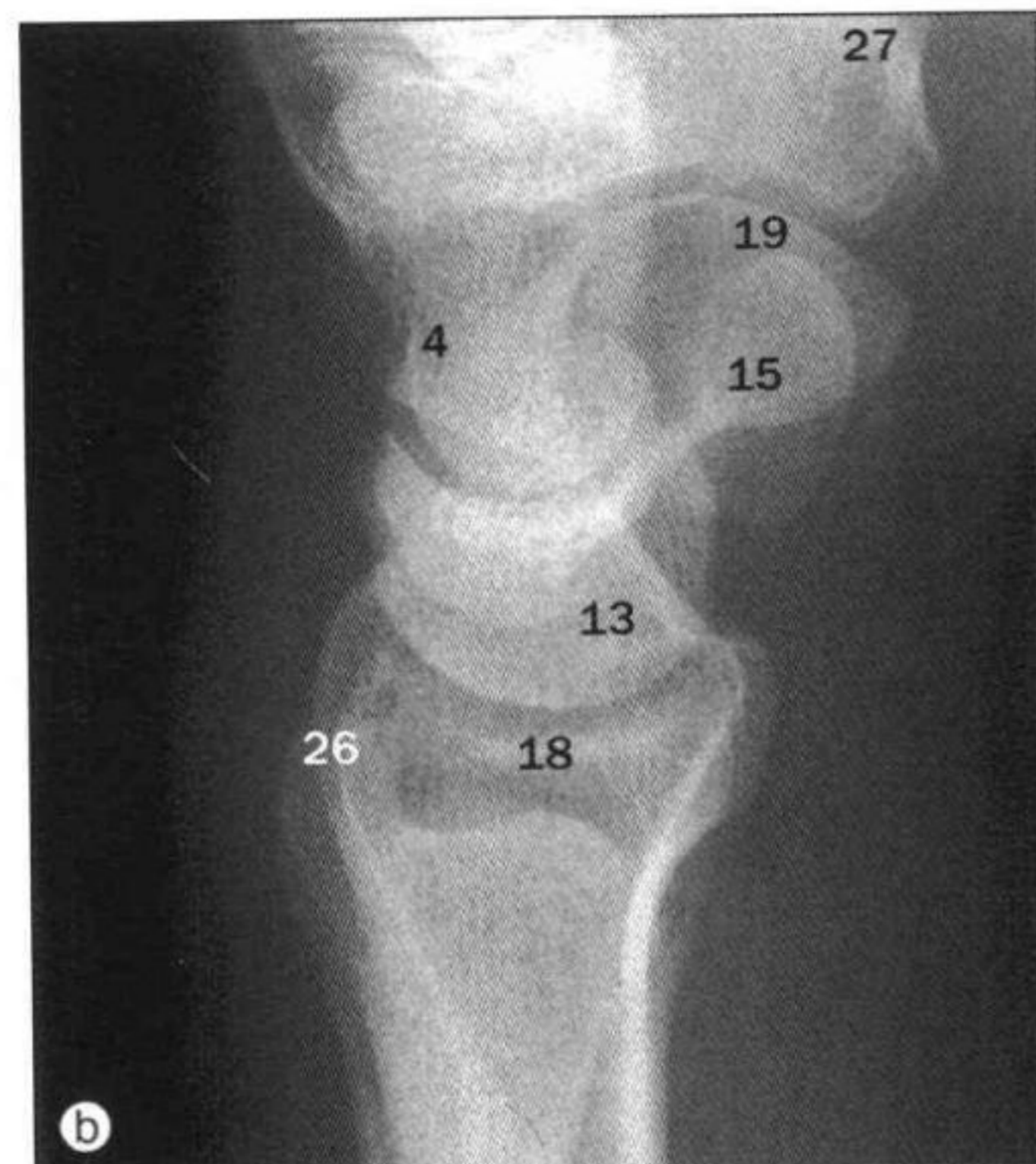


1 肱骨小头骨化中心 centre for capitulum
2 外上髁骨化中心 centre for lateral epicondyle
3 内上髁骨化中心 centre for medial epicondyle
4 鹰嘴骨化中心 centre for olecranon
5 桡骨头骨化中心 centre for radial head

6 滑车骨化中心 centre for trochlea
7 骺线 epiphysial line
8 肱骨 humerus
9 桡骨 radius
10 尺骨 ulna



a. 手, 背掌位 X 线。



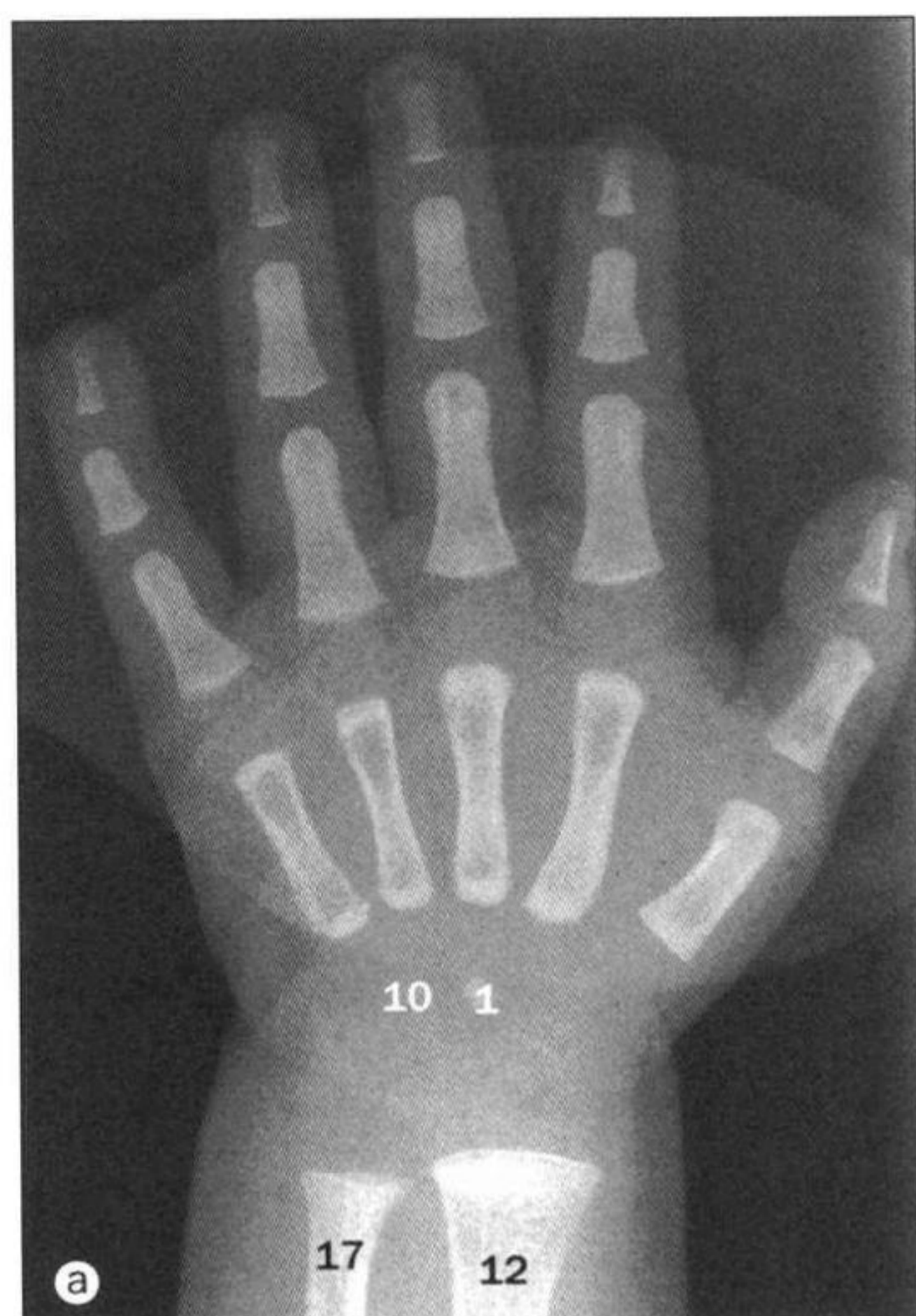
b. 腕, 侧位 X 线。

- 1 第 5 掌骨底
base of fifth metacarpal
- 2 中指中节指骨底
base of middle phalanx of middle finger
- 3 环指近节指骨底
base of proximal phalanx of ring finger
- 4 头状骨 capitate
- 5 示指远节指骨
distal phalanx of index finger
- 6 拇指远节指骨
distal phalanx of thumb
- 7 钩骨 hamate
- 8 第 5 掌骨头
head of fifth metacarpal
- 9 中指中节指骨头 head of middle phalanx of middle finger
- 10 尺骨头 head of ulna
- 11 环指近节指骨头 head of proximal phalanx of ring finger
- 12 钩骨钩 hook of hamate
- 13 月骨 lunate
- 14 示指中节指骨
middle phalanx of index finger

- 15 豌豆骨 pisiform
- 16 示指近节指骨
proximal phalanx of index finger
- 17 拇指近节指骨
proximal phalanx of thumb
- 18 桡骨 radius
- 19 手舟骨 scaphoid
- 20 第 2 掌骨 second metacarpal

- 21 籽骨 sesamoid bone
- 22 第 5 掌骨体
shaft of fifth metacarpal
- 23 中指中节指骨体
shaft of middle phalanx of middle finger
- 24 环指近节指骨体
shaft of proximal phalanx of ring finger

- 25 桡骨茎突 styloid process of radius
- 26 尺骨茎突 styloid process of ulna
- 27 大多角骨 trapezium
- 28 小多角骨 trapezoid
- 29 三角骨 triquetral
- 30 桡骨的尺骨切迹
ulnar notch of radius

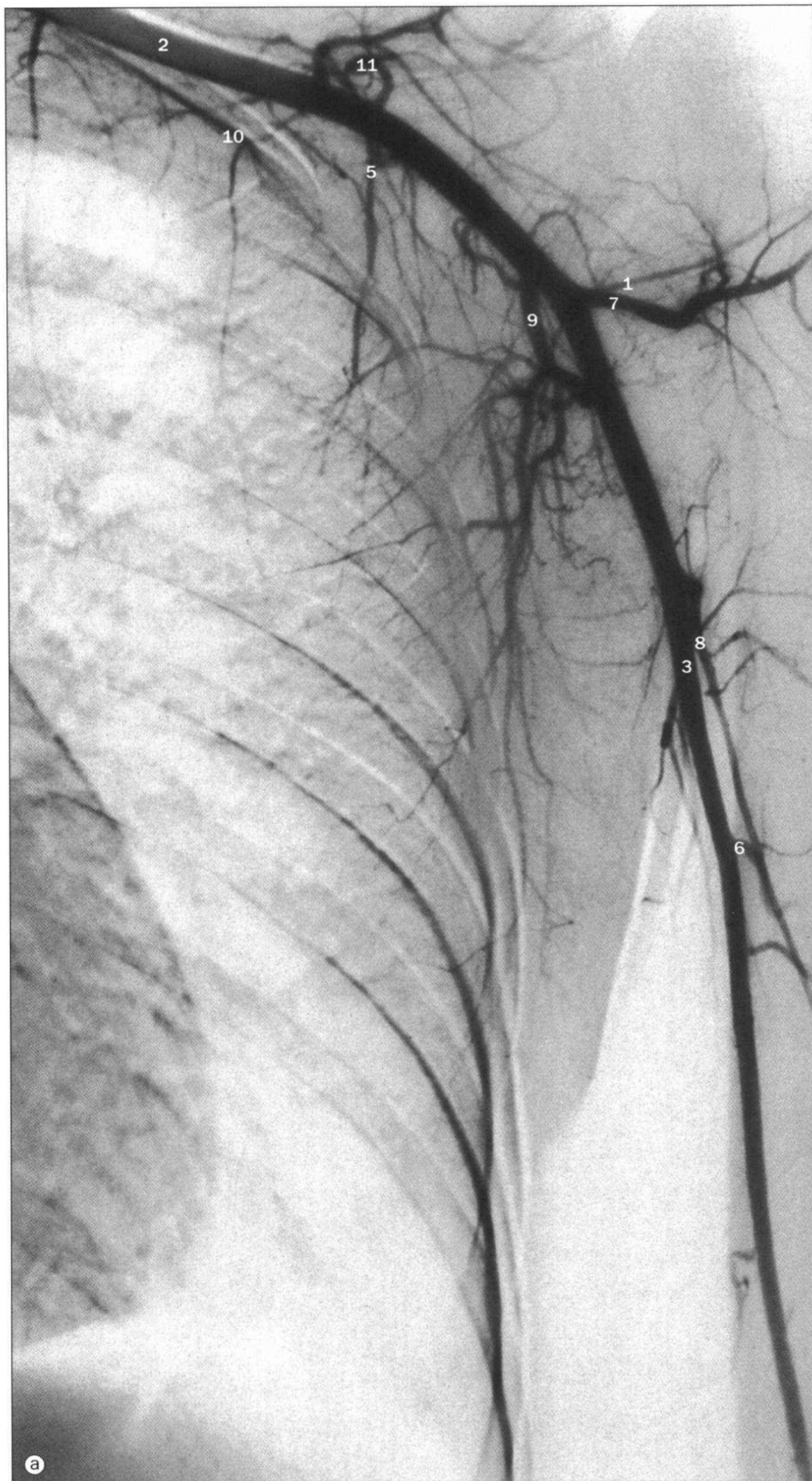


手，背掌位 X 线，说明骨化中心。
a. 3 个月男孩；b. 3 岁男孩；c. 6 岁男孩；d. 11 岁男孩。

腕骨(软骨骨化)	出现	融合
头状骨	1~3 个月	
钩骨	2~4 个月	
三角骨	2~3 岁	
月骨	2~4 岁	
手舟骨	4~6 岁	
大多角骨	4~6 岁	
小多角骨	4~6 岁	
豌豆骨	8~12 岁	
掌骨(软骨骨化)	出现	融合
体	9 周胎龄	
头	1~2 岁	14~19 岁
指骨(软骨骨化)	出现	融合
体	8~12 周胎龄	
头	1~3 岁	14~18 岁

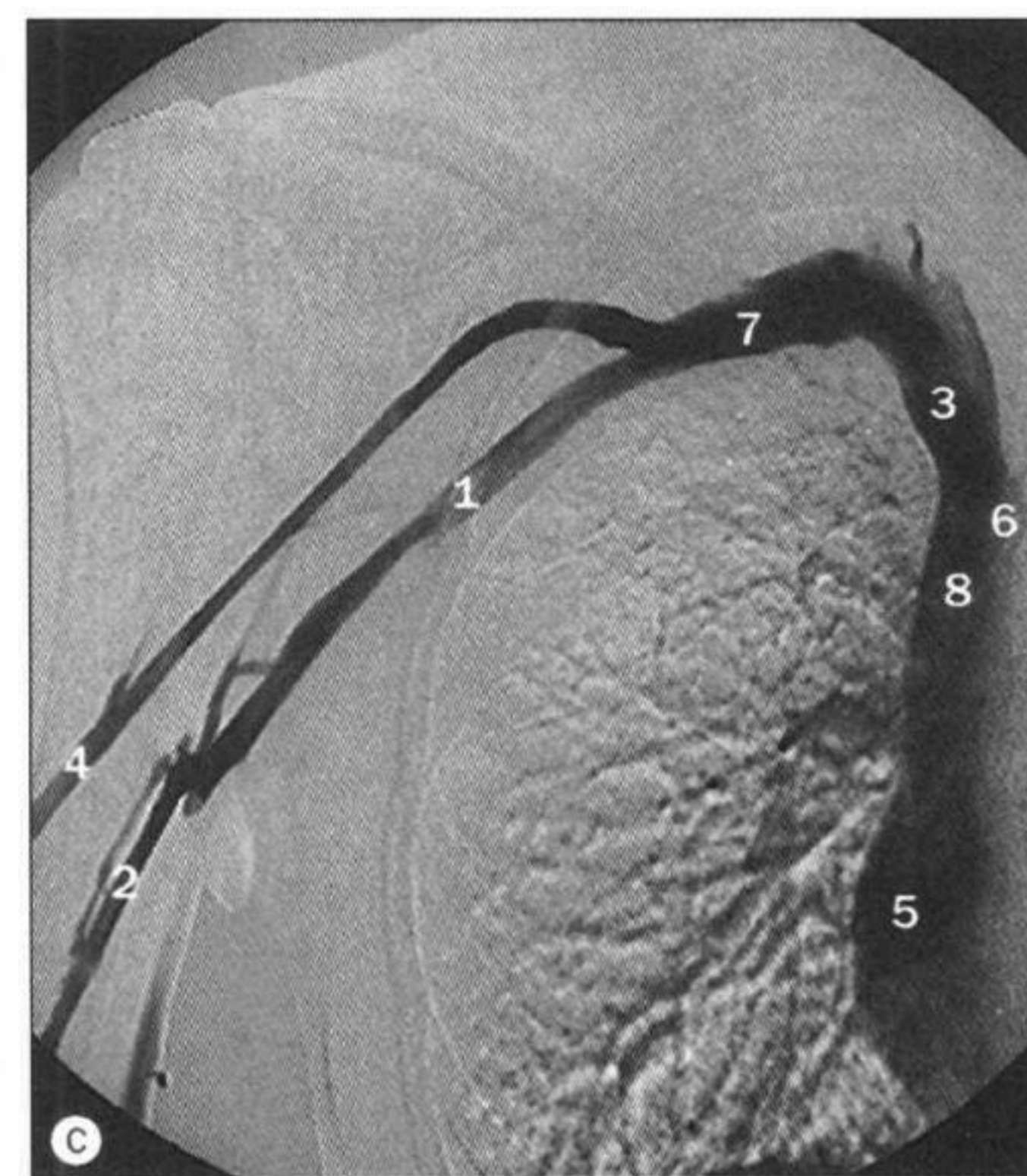
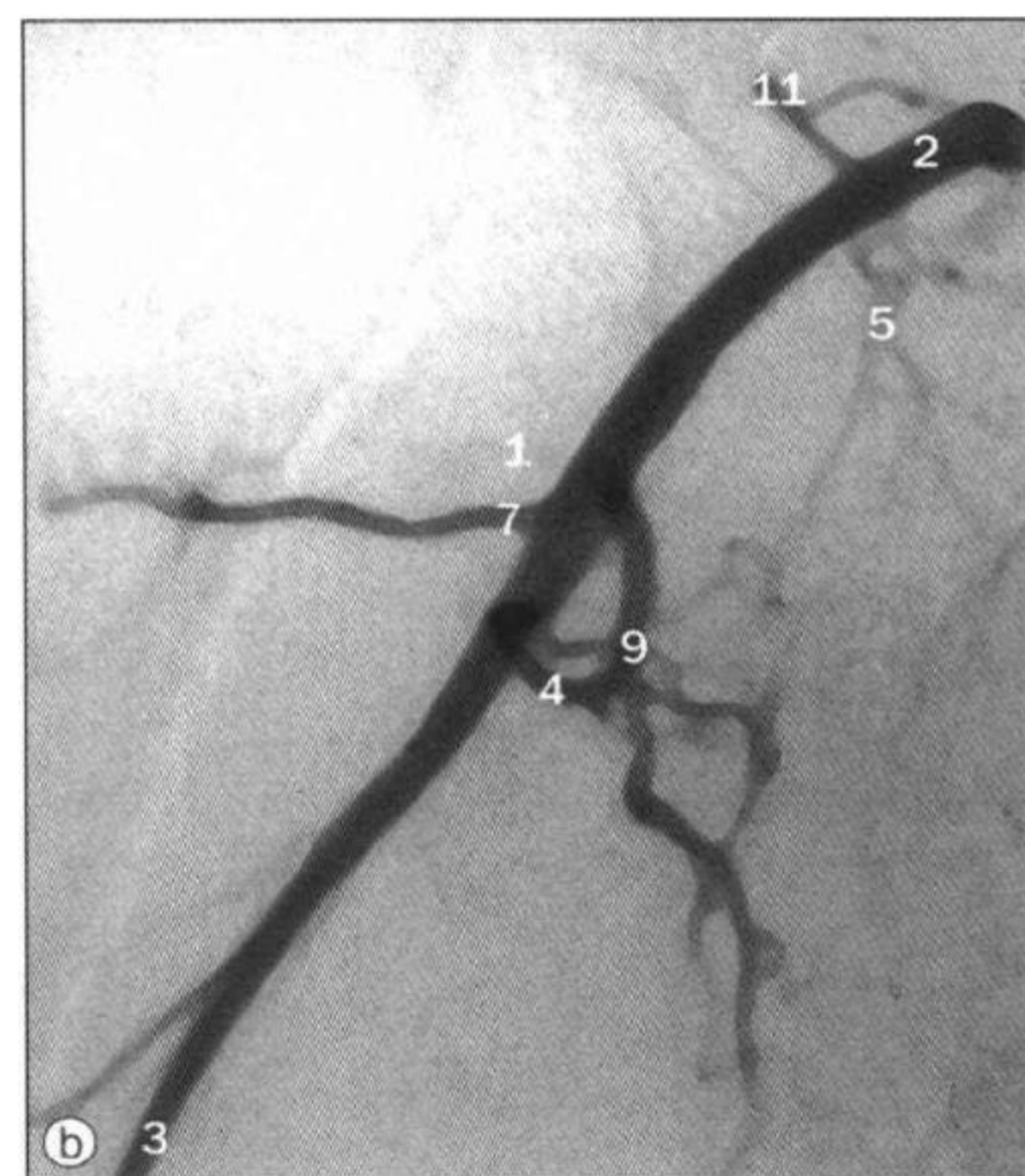


- 1 头状骨 capitate
- 2 中指远节指骨骨化中心
centre for distal phalanx
of middle finger
- 3 桡骨远端骨化中心
centre for distal radius
- 4 尺骨远端骨化中心
centre for distal ulna
- 5 第 1 掌骨骨化中心
centre for first metacarpal
- 6 中指中节指骨骨化中心
centre for middle phalanx
of middle finger
- 7 中指近节指骨骨化中心
centre for proximal phalanx
of middle finger
- 8 第 2 掌骨骨化中心 (第 3~5 掌骨
同此) centre for second metacarpal
(applies to second to fifth
metacarpals)
- 9 骺线 epiphysial line
- 10 钩骨 hamate
- 11 月骨 lunate
- 12 桡骨 radius
- 13 手舟骨 scaphoid
- 14 大多角骨 trapezium
- 15 小多角骨 trapezoid
- 16 三角骨 triquetral
- 17 尺骨 ulna



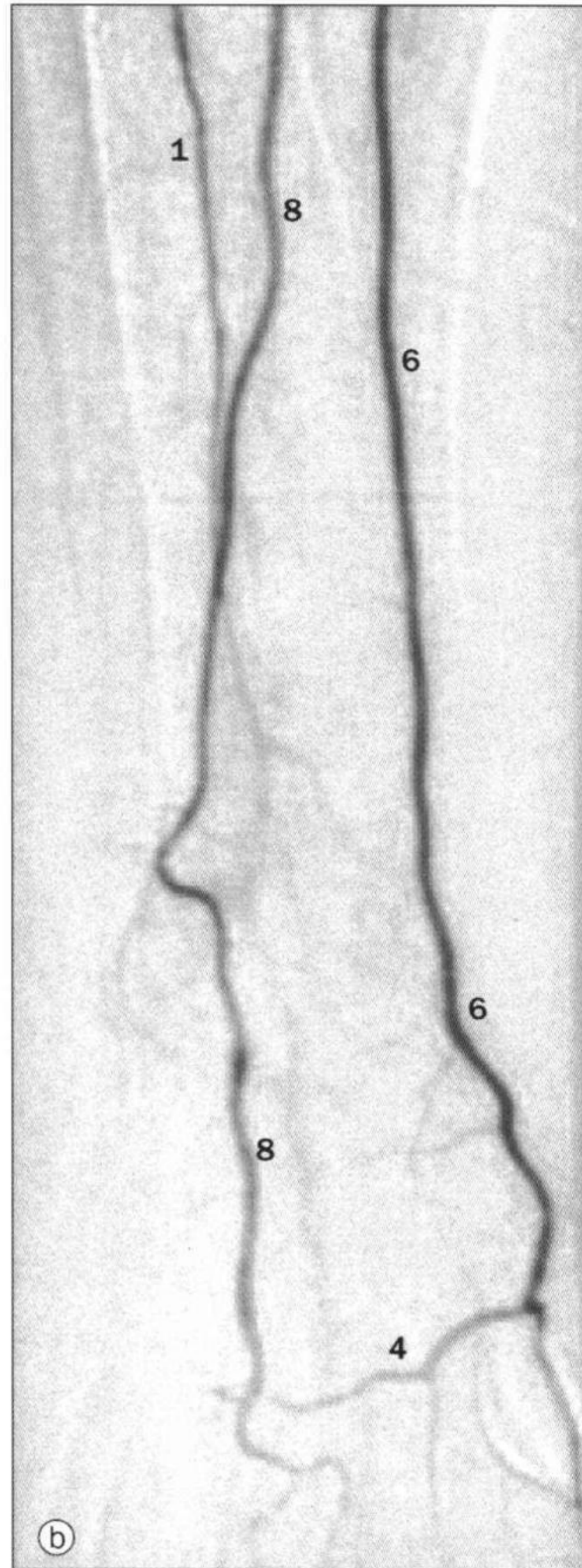
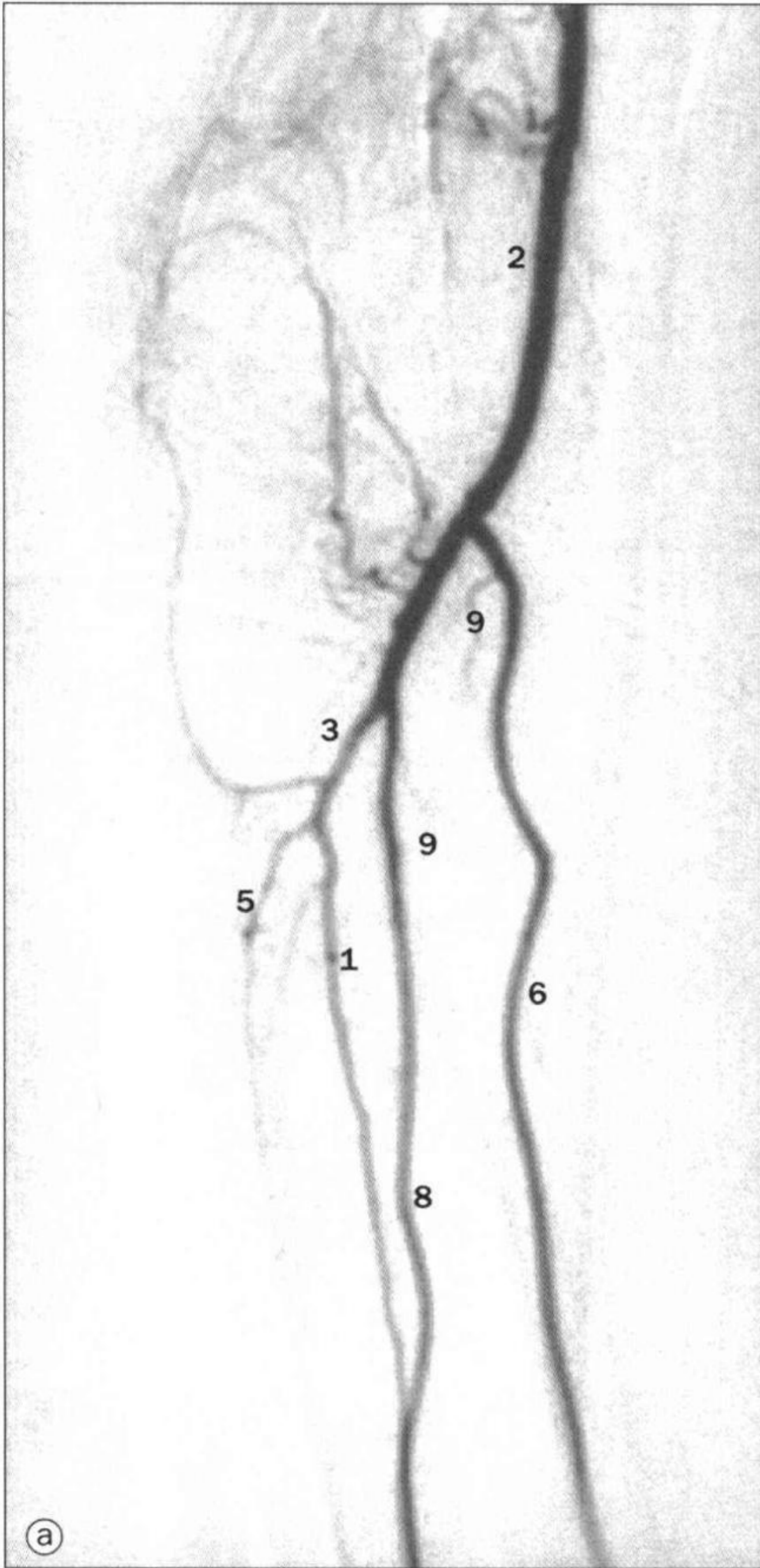
腋窝动脉造影。
a. 减影的；b. 数字减影的。

- 1 旋肱前动脉
anterior humeral circumflex artery
- 2 腋动脉 axillary artery
- 3 肱动脉 brachial artery
- 4 旋肩胛动脉
circumflex scapular artery
- 5 胸外侧动脉 lateral thoracic artery
- 6 肱动脉肌支
muscular branches of brachial artery
- 7 旋肱后动脉
posterior humeral circumflex artery
- 8 肱深动脉 profunda brachii artery
- 9 肩胛下动脉 subscapular artery
- 10 胸上动脉 superior thoracic artery
- 11 胸肩峰动脉 thoracoacromial artery



c. 上腔静脉造影减影。

- | | | |
|-----------------------------|--|------------------------------|
| 1 腋静脉 axillary vein | 5 右心房 right atrium | 7 锁骨下静脉
subclavian vein |
| 2 贵要静脉 basilic vein | 6 左头臂静脉入口
site of entry of left
brachiocephalic vein | 8 上腔静脉
superior vena cava |
| 3 头臂静脉 brachiocephalic vein | | |
| 4 头静脉 cephalic vein | | |

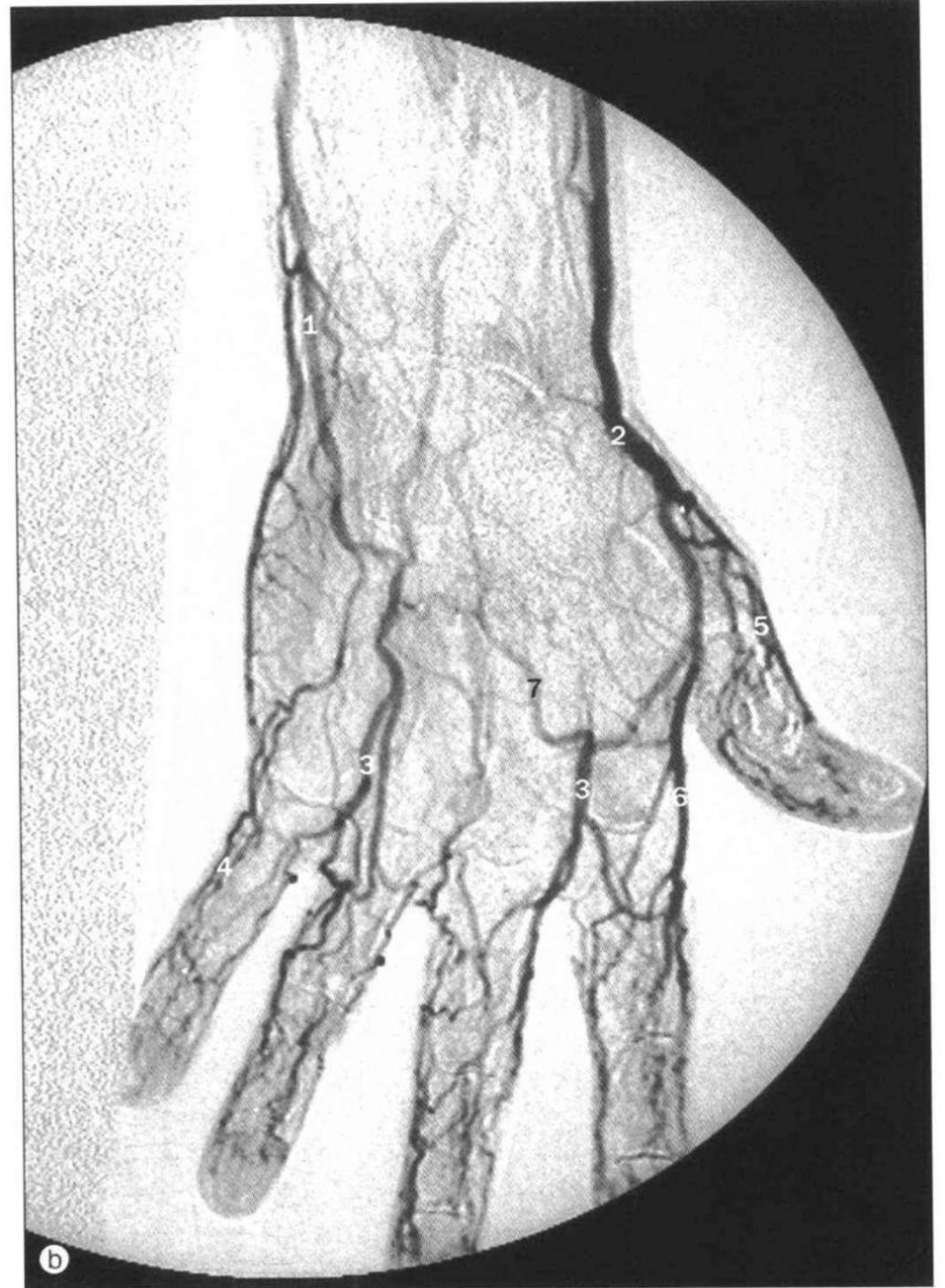


- 1 骨间前动脉
anterior interosseous artery
- 2 肱动脉 brachial artery
- 3 骨间总动脉
common interosseous artery
- 4 掌深弓
deep palmar arch
- 5 骨间后动脉
posterior interosseous artery
- 6 桡动脉 radial artery
- 7 桡侧返动脉
radial recurrent artery
- 8 尺动脉 ulnar artery
- 9 尺侧返动脉
ulnar recurrent artery

a, b. 肱动脉造影。



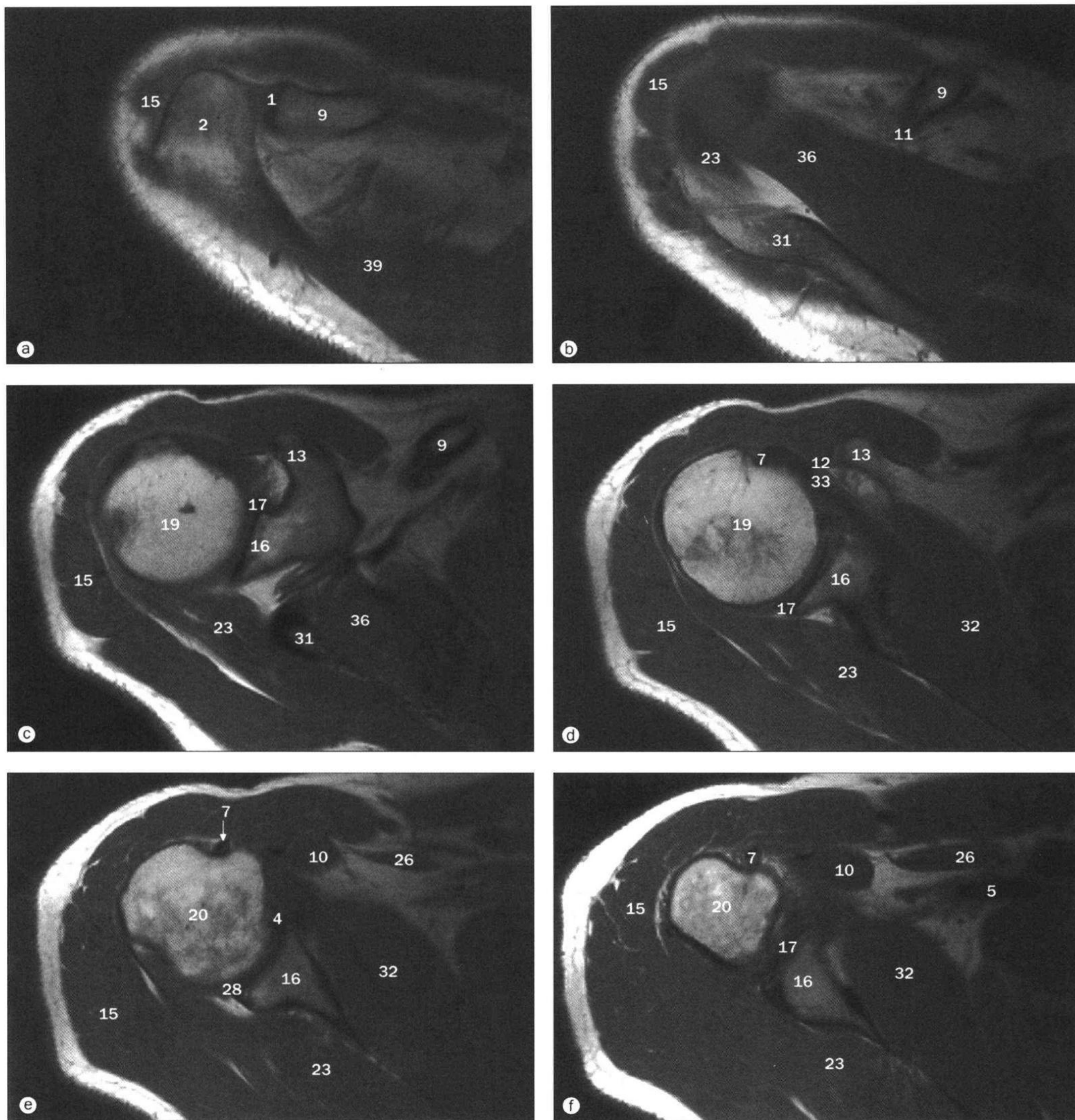
a. 数字减影手部血管造影。
这个病人有一个不完全掌浅弓。



b. 手部静脉血管造影。

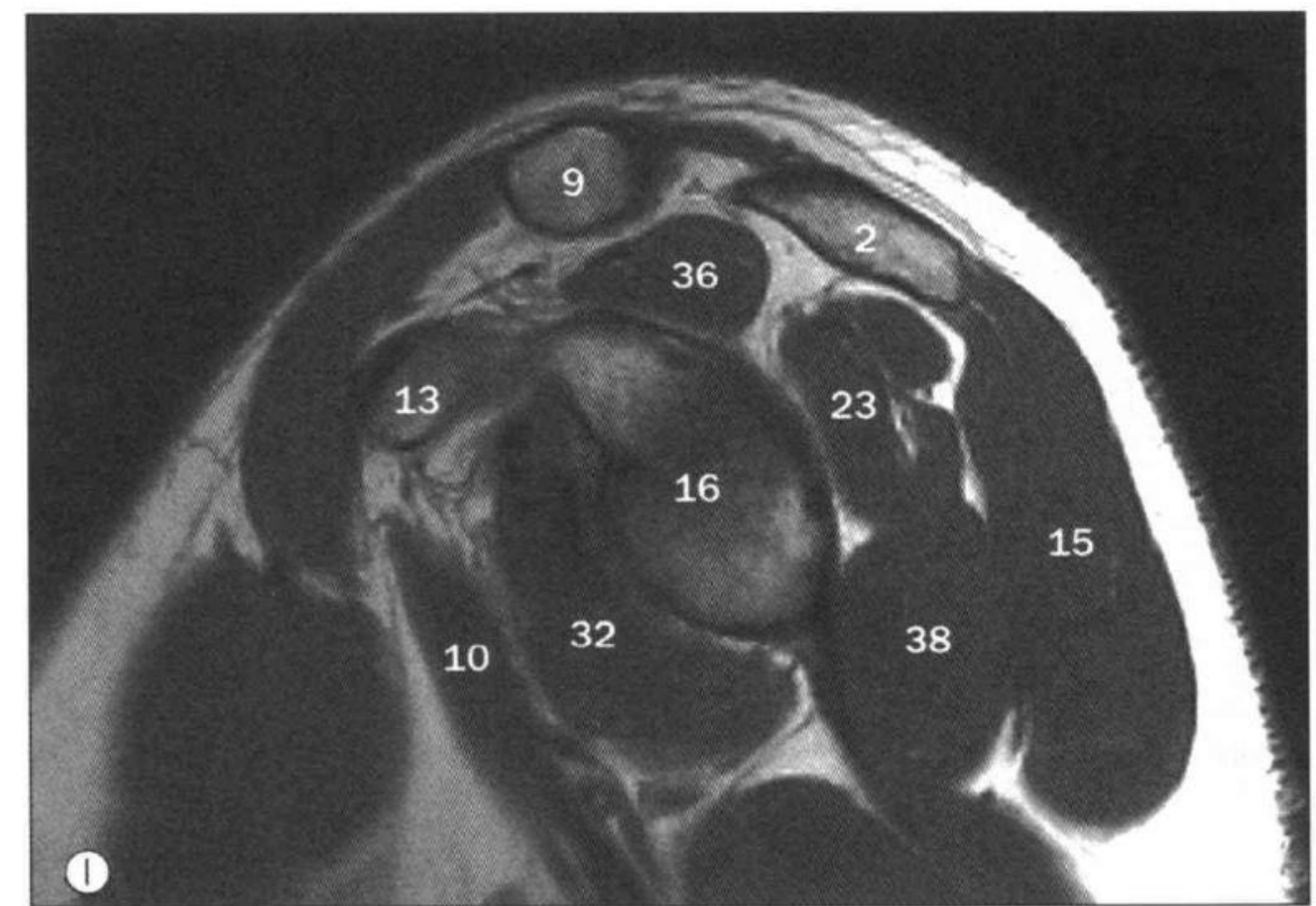
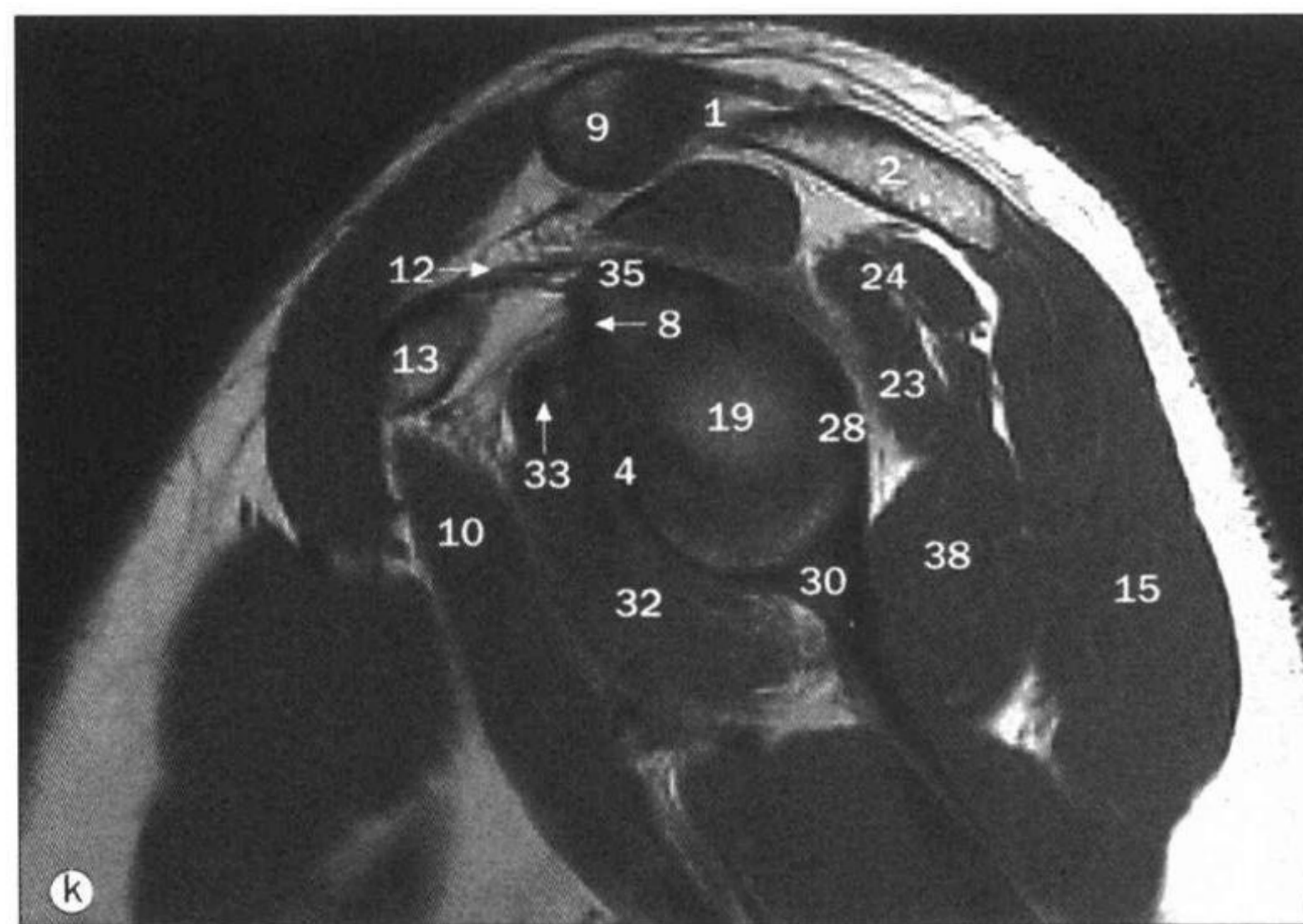
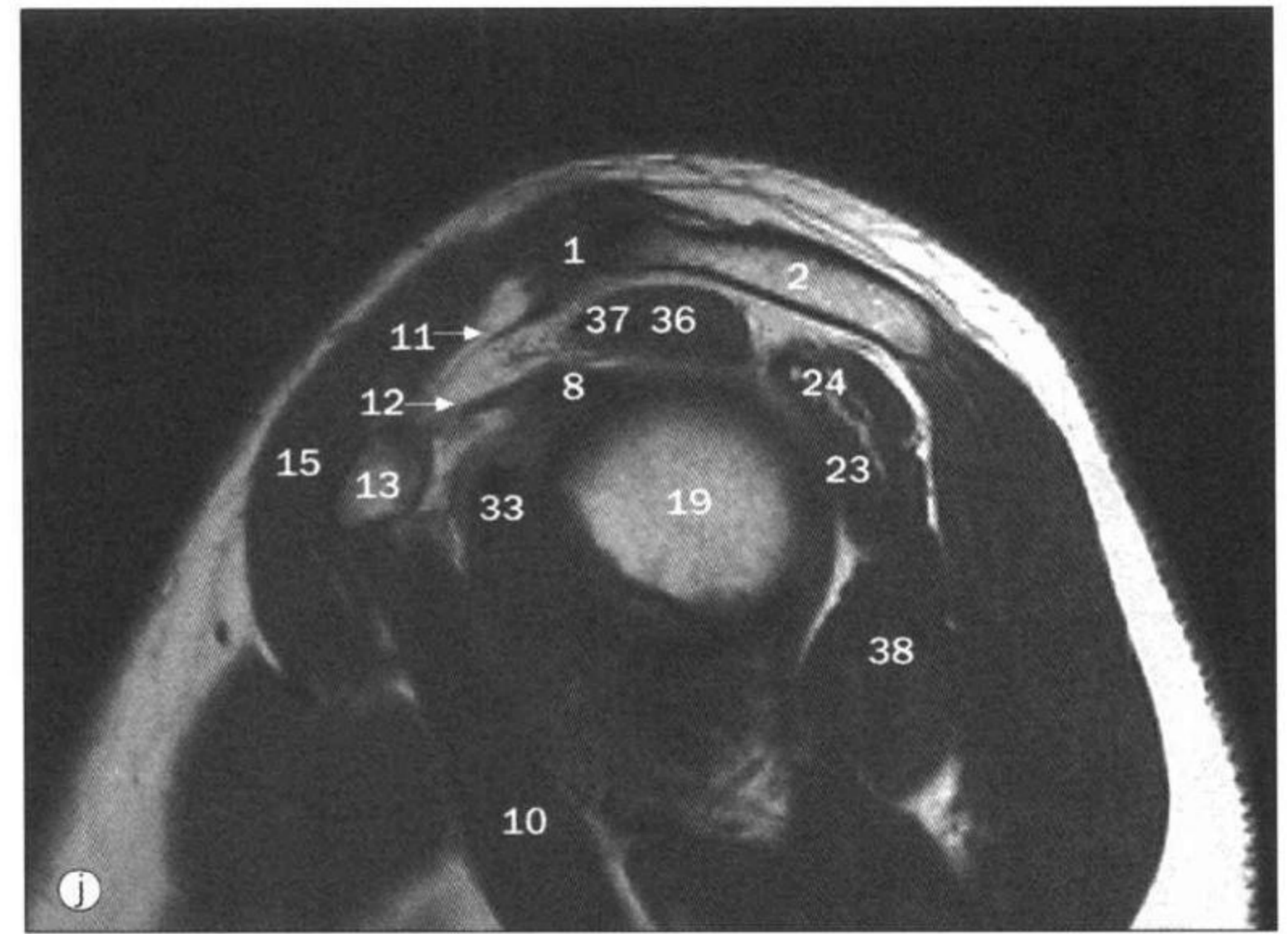
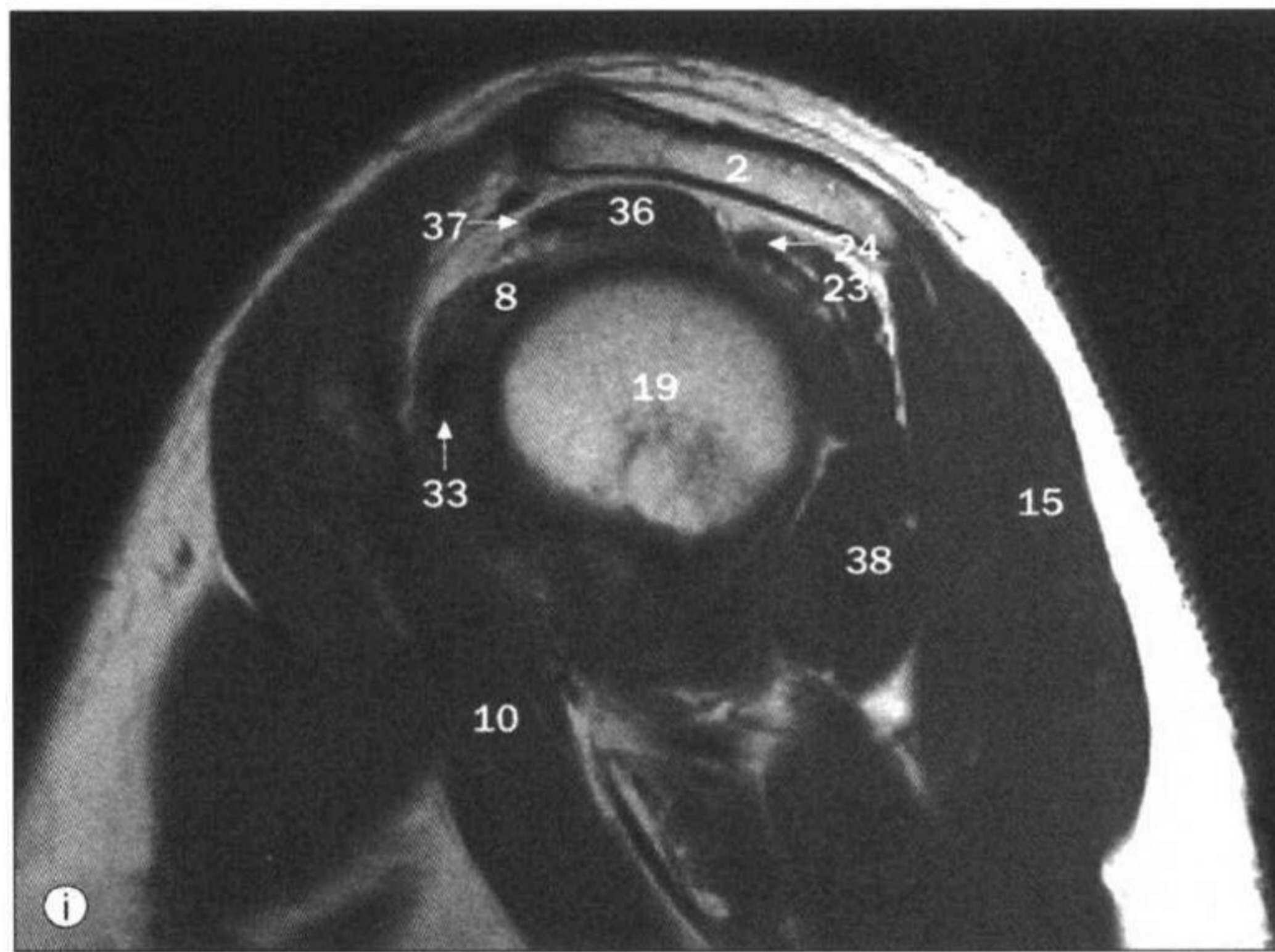
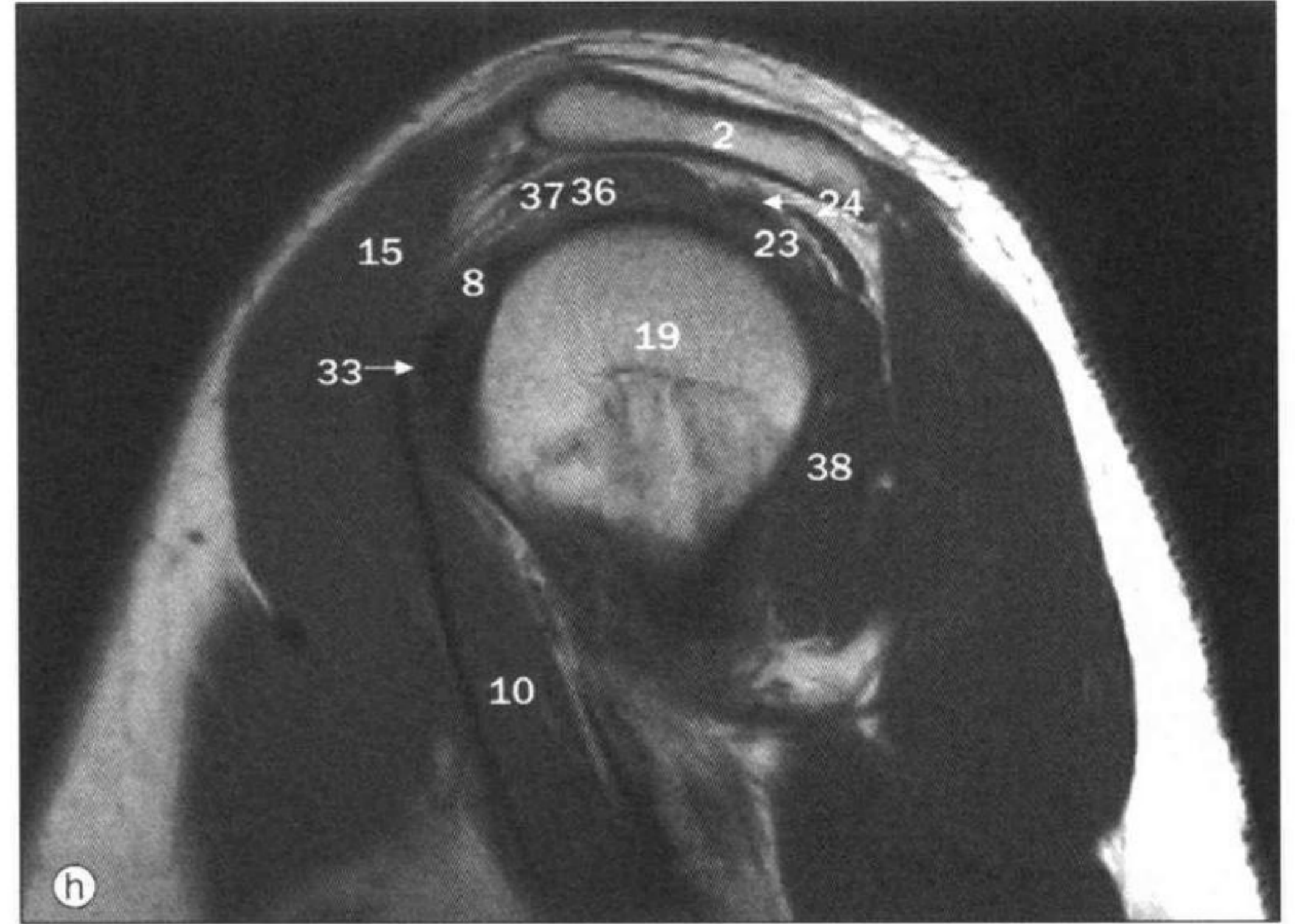
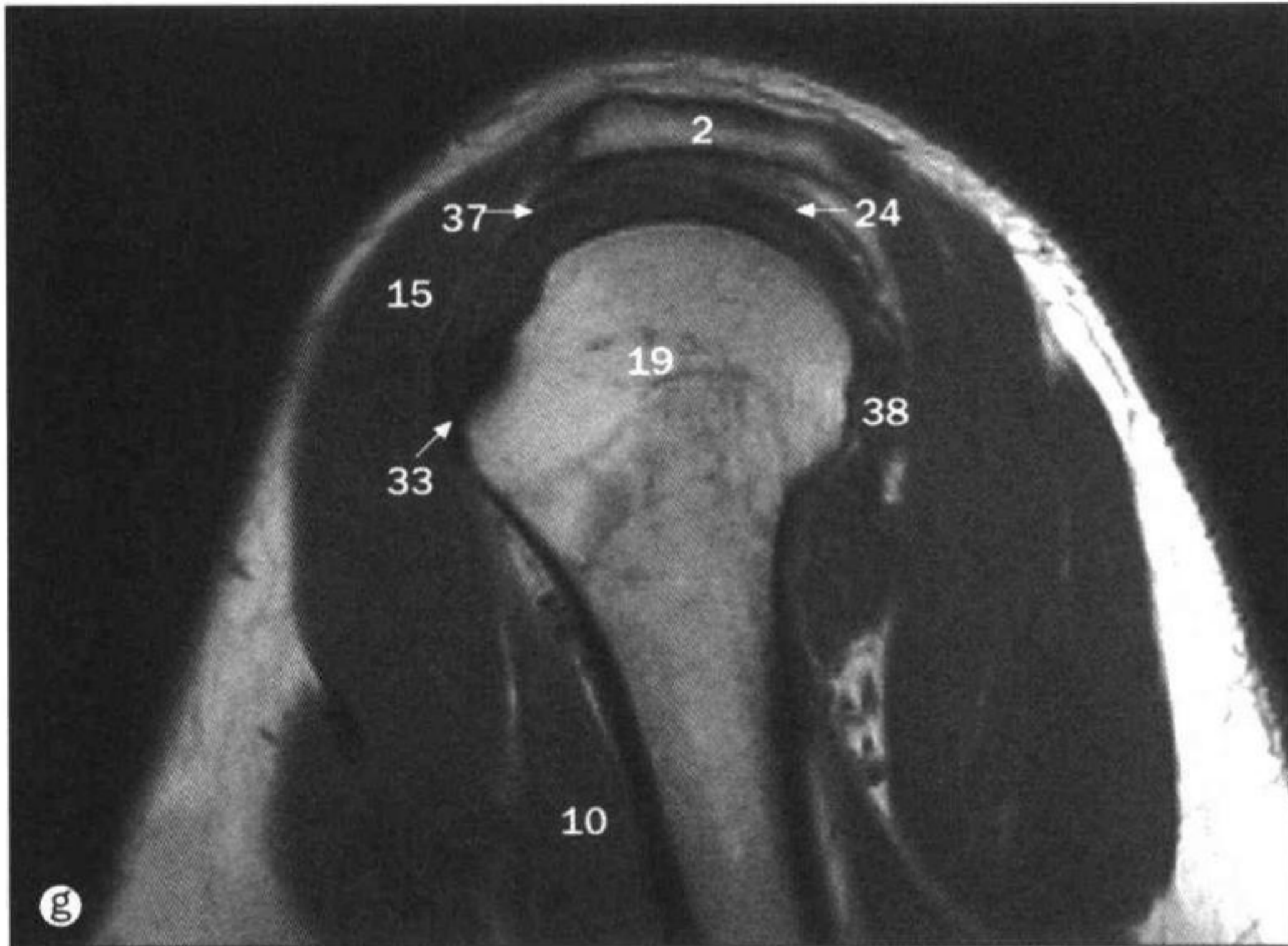
- 1 拇指桡侧动脉 artery to radial aspects of thumb
- 2 指掌侧总动脉 common palmar digital artery
- 3 掌深弓 deep palmar arch
- 4 尺动脉掌深支 deep palmar branch of ulnar artery
- 5 尺动脉腕掌支 palmar carpal branch of ulnar artery
- 6 掌心动脉 palmar metacarpal artery
- 7 拇主要动脉 princeps pollicis artery
- 8 指掌侧固有动脉 proper palmar digital artery
- 9 桡动脉 radial artery
- 10 尺动脉 ulnar artery

- 1 贵要静脉 basilic vein
- 2 头静脉 cephalic vein
- 3 指掌侧总静脉 common palmar digital vein
- 4 指掌侧静脉 palmar digital vein
- 5 拇主要静脉 princeps pollicis vein
- 6 桡侧指静脉 radialis indicis vein
- 7 掌浅静脉弓 superficial palmar venous arch



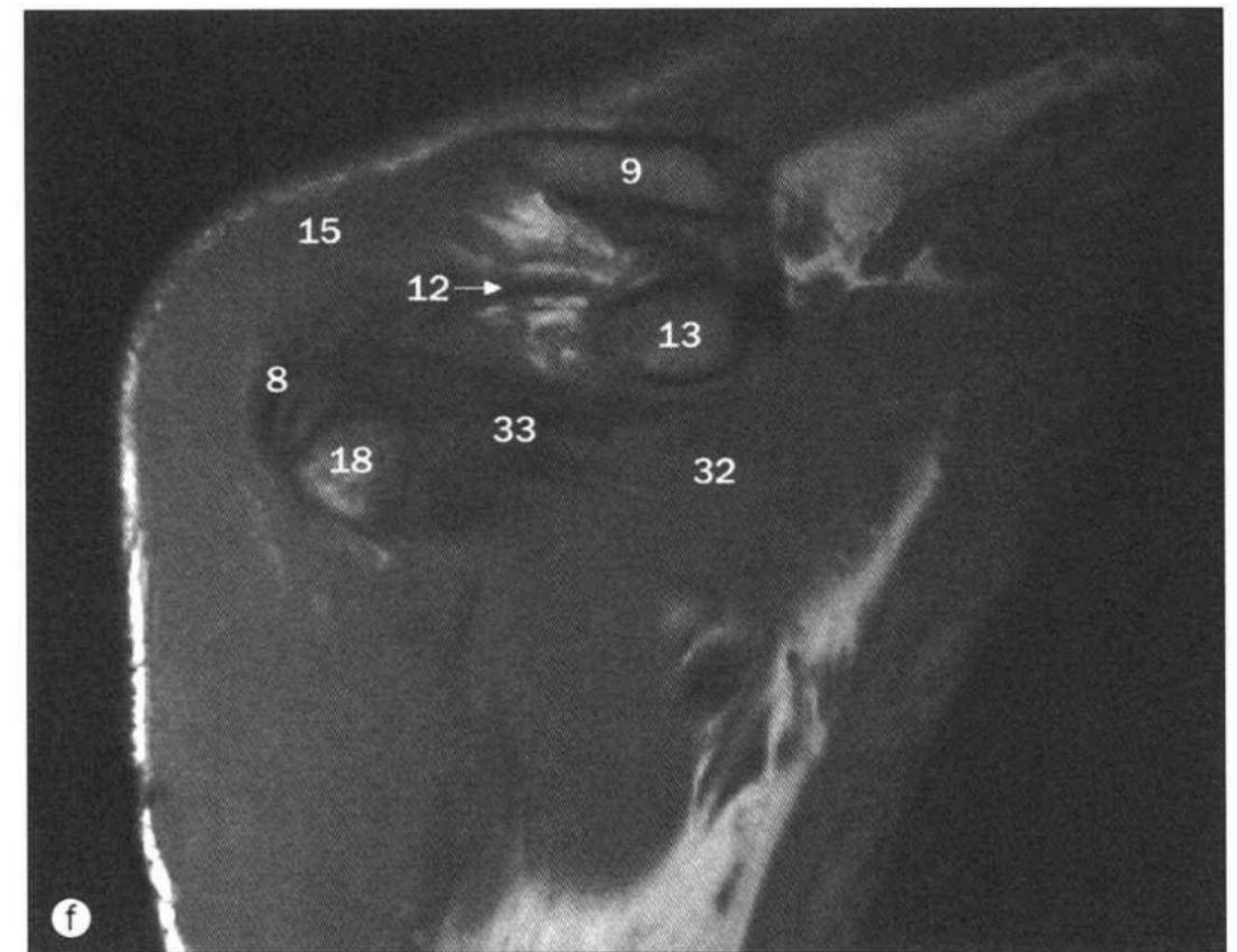
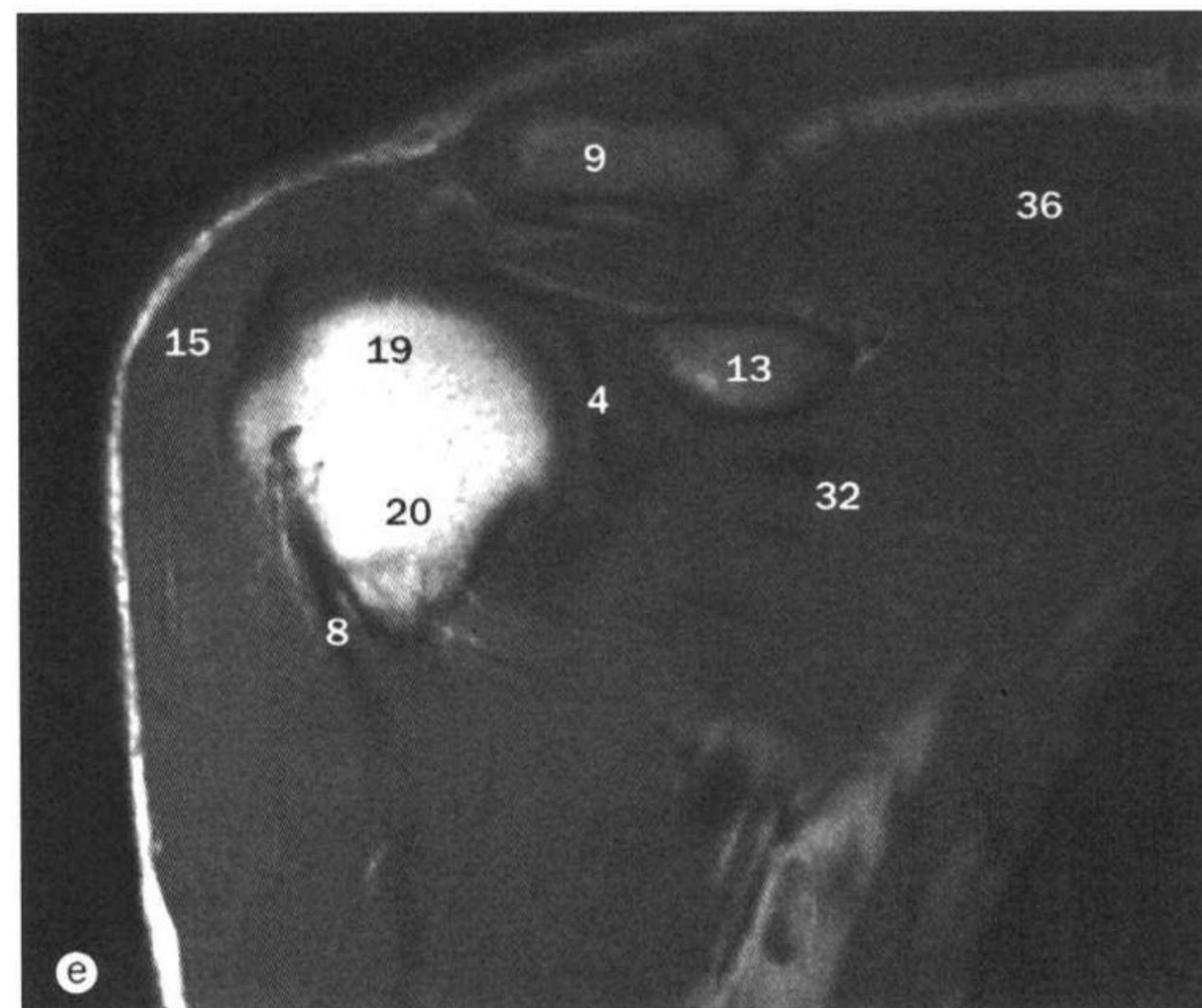
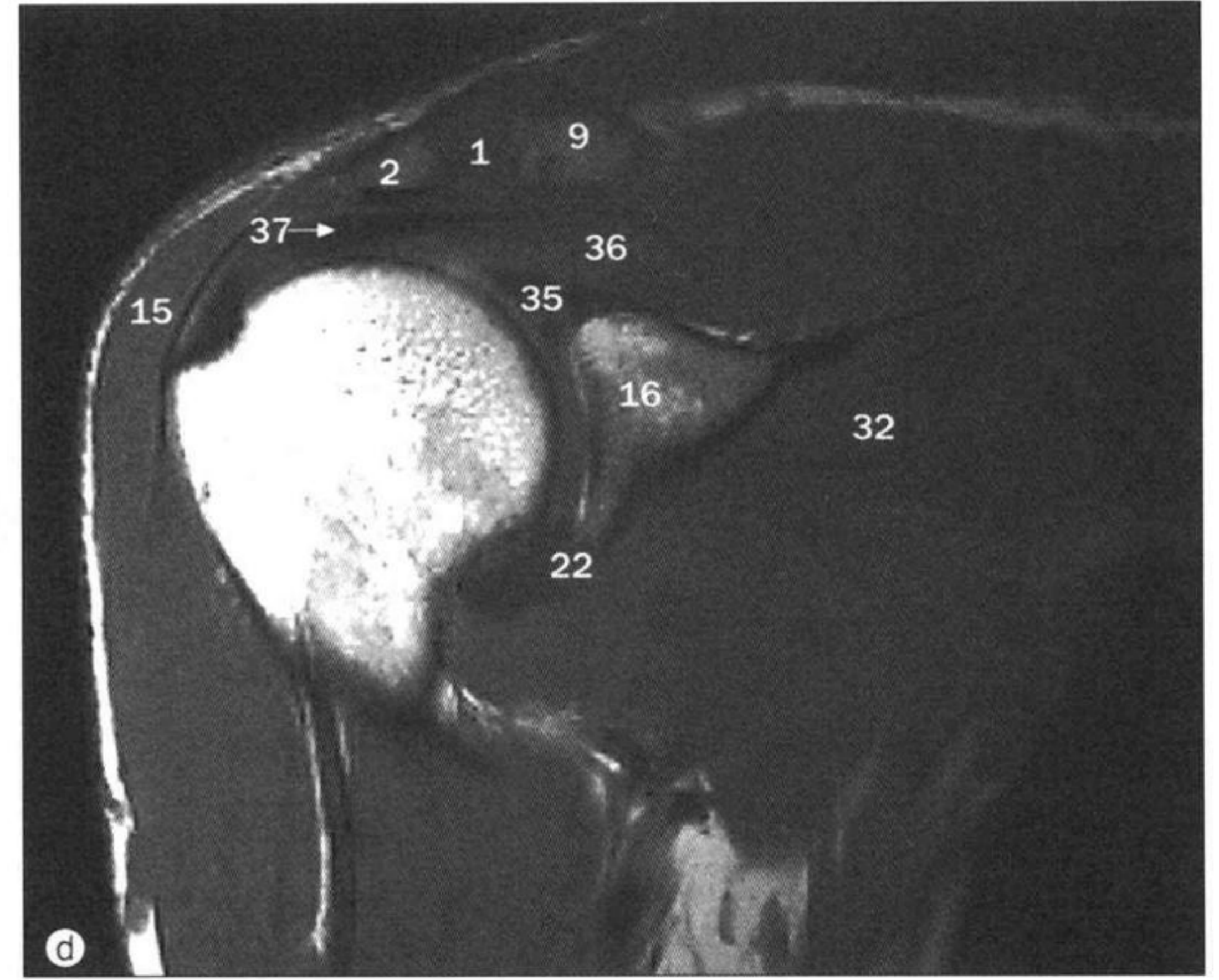
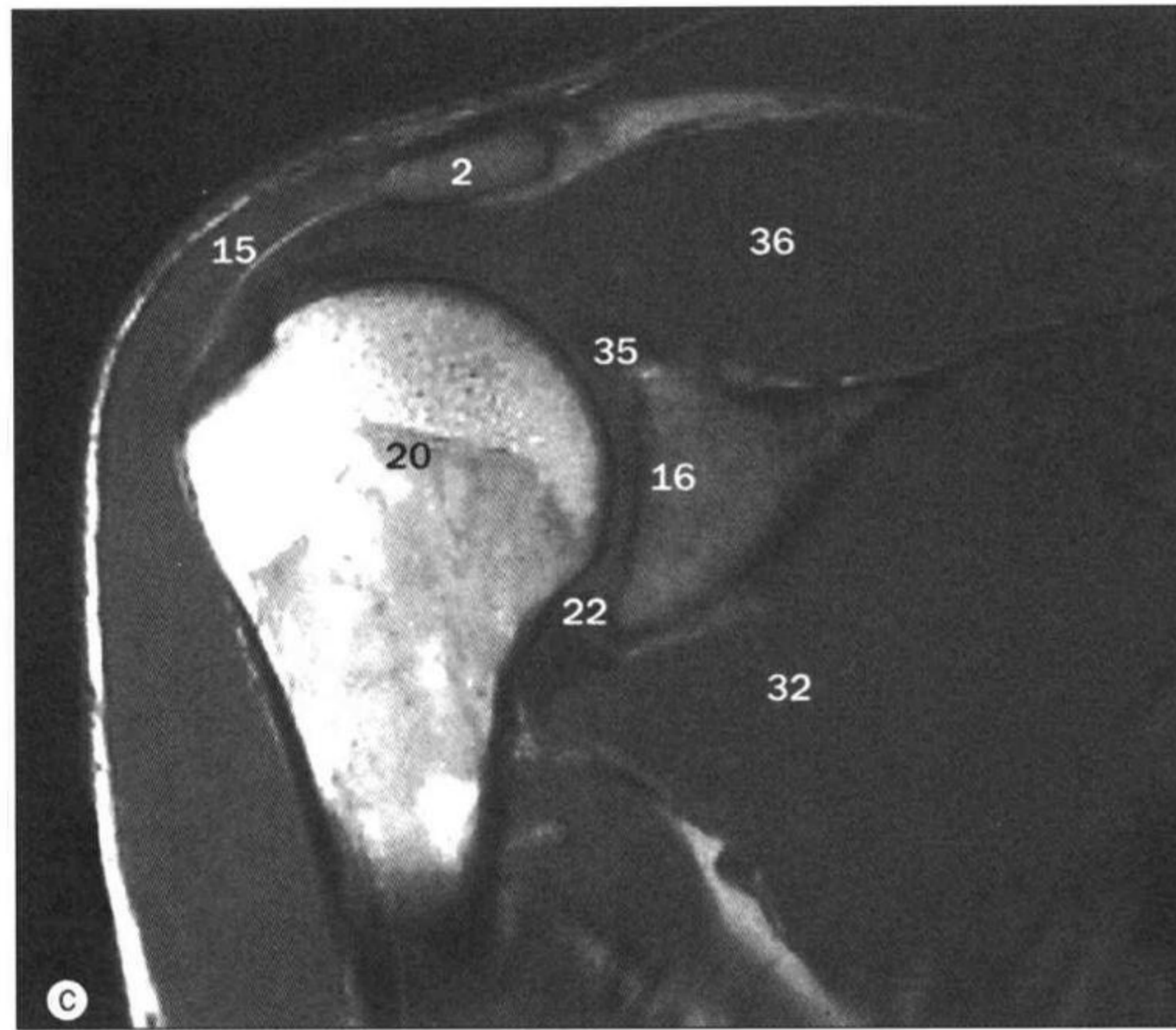
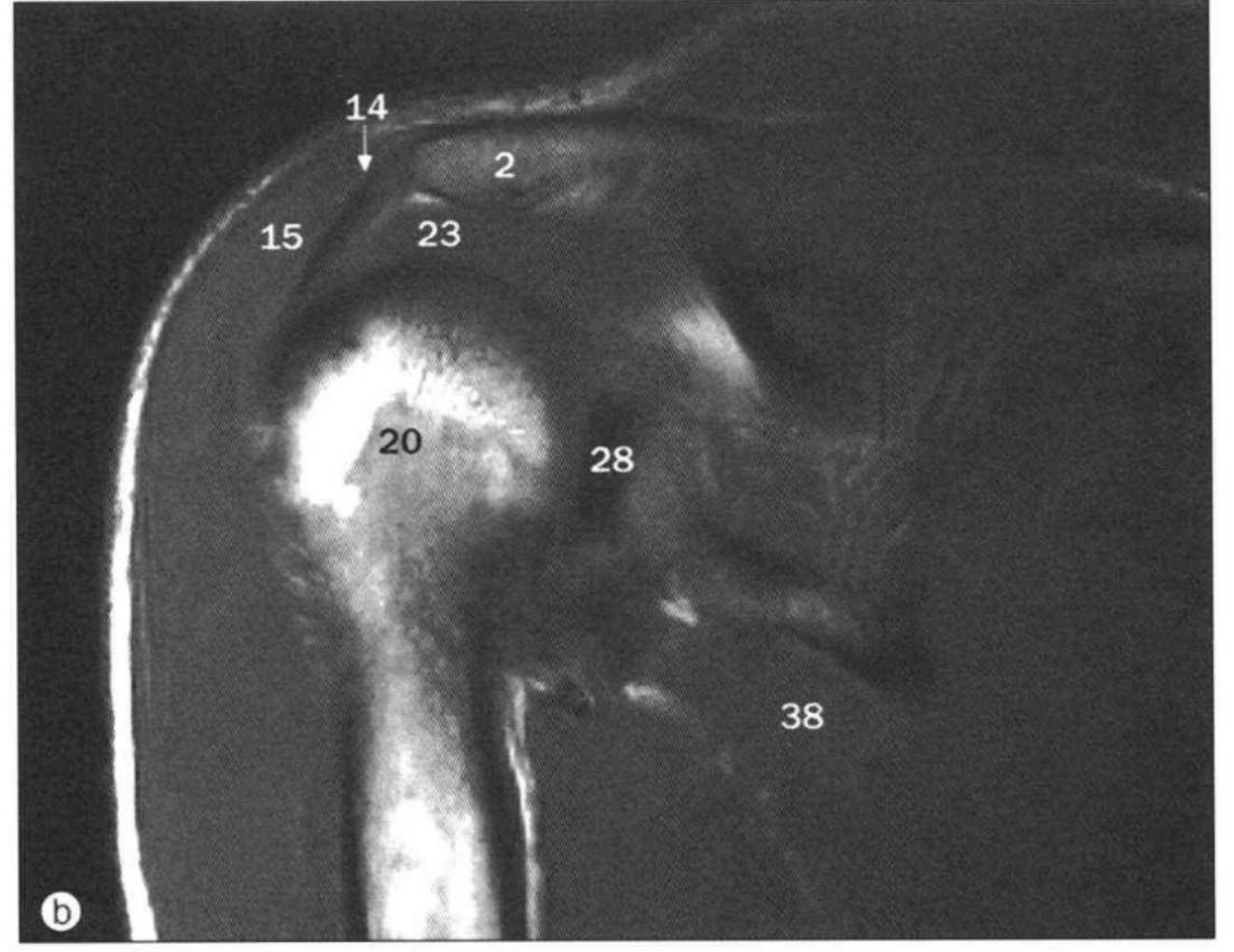
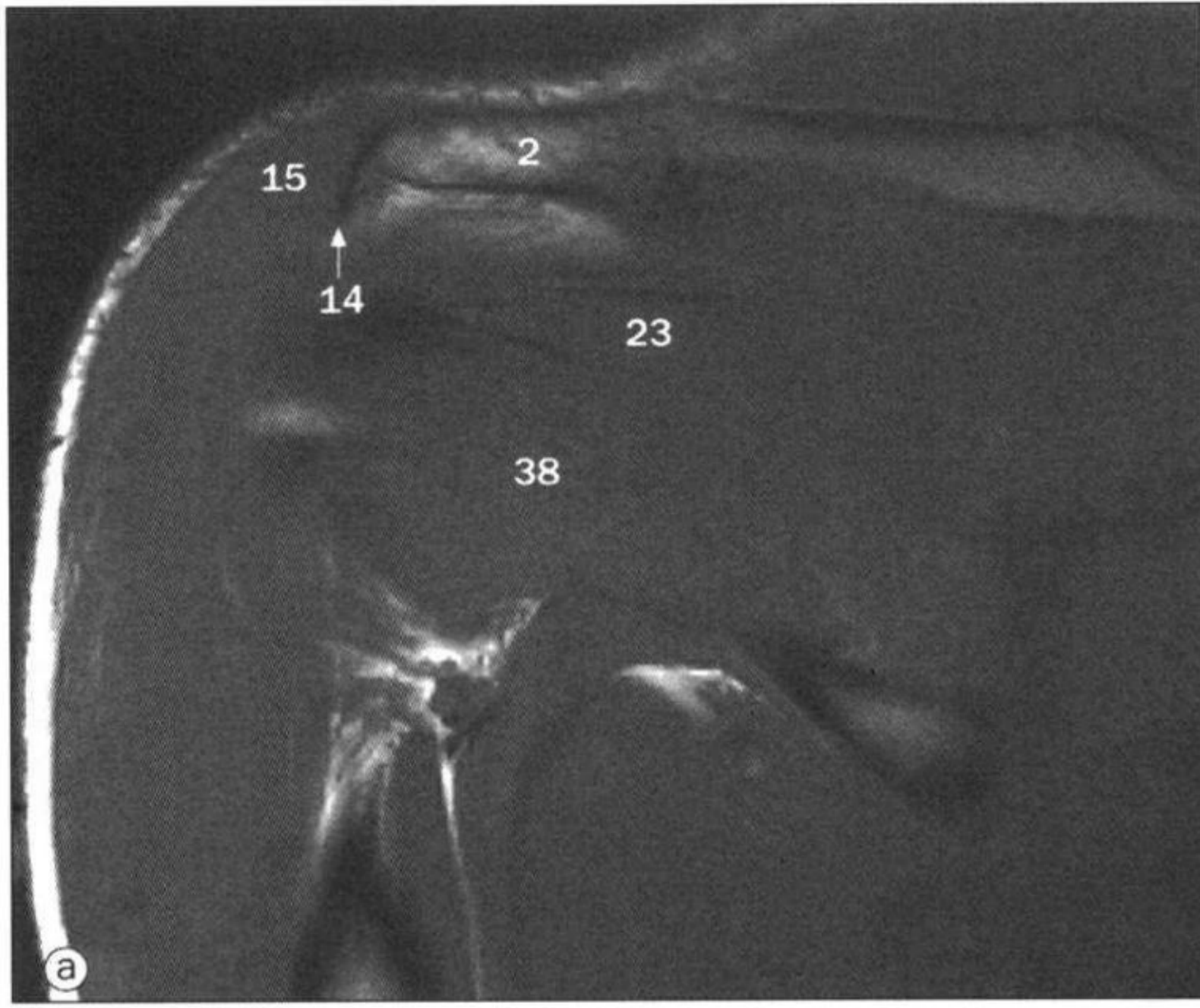
肩, MRI。a~f. 轴位; g~l. 斜位、矢状位。

- | | | |
|---|---|---|
| 1 肩锁关节 acromioclavicular joint | 8 肱二头肌肌腱长头
biceps brachii tendon-long head | 16 关节盂 glenoid cavity |
| 2 肩峰 acromion | 9 锁骨 clavicle | 17 孟唇 glenoid labrum |
| 3 肩关节前囊
anterior capsule of shoulder joint | 10 喙肱肌 coracobrachialis muscle | 18 大结节 greater tuberosity |
| 4 前缘 anterior labrum | 11 喙锁韧带 coracoclavicular ligament | 19 肱骨头 head of humerus |
| 5 腋动静脉 axillary artery and vein | 12 喙肱韧带 coracohumeral ligament | 20 肱骨 humerus |
| 6 腋窝 axillary recess | 13 喙突 coracoid process | 21 下孟肱韧带 inferior glenohumeral ligament |
| 7 肱二头肌肌腱
biceps brachii tendon | 14 三角肌肌腱 deltoid tendon | 22 下缘 inferior labrum |
| | 15 三角肌 deltoid muscle | 23 冈下肌 infraspinatus muscle |
| | | 24 冈下肌肌腱 infraspinatus tendon |

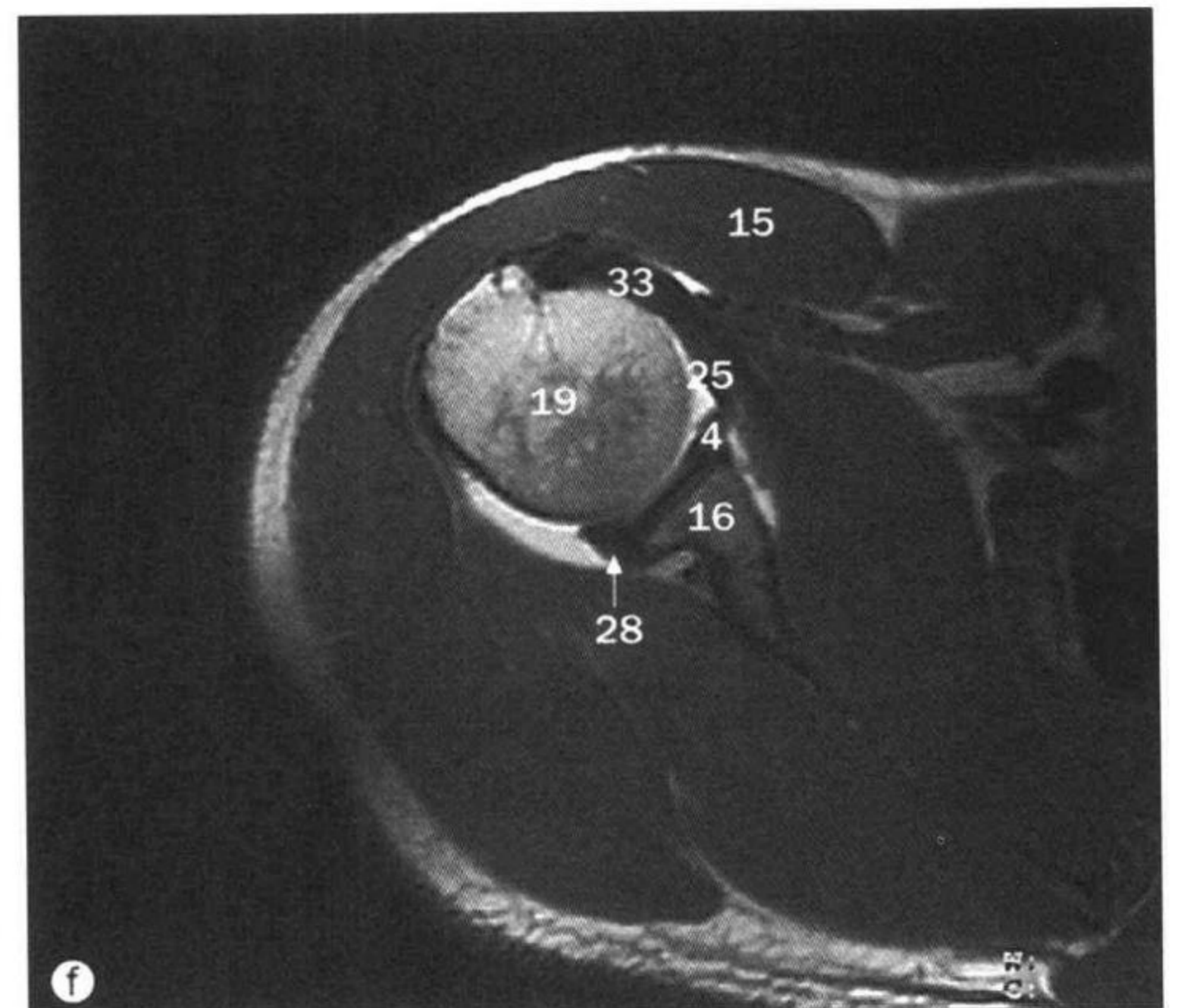
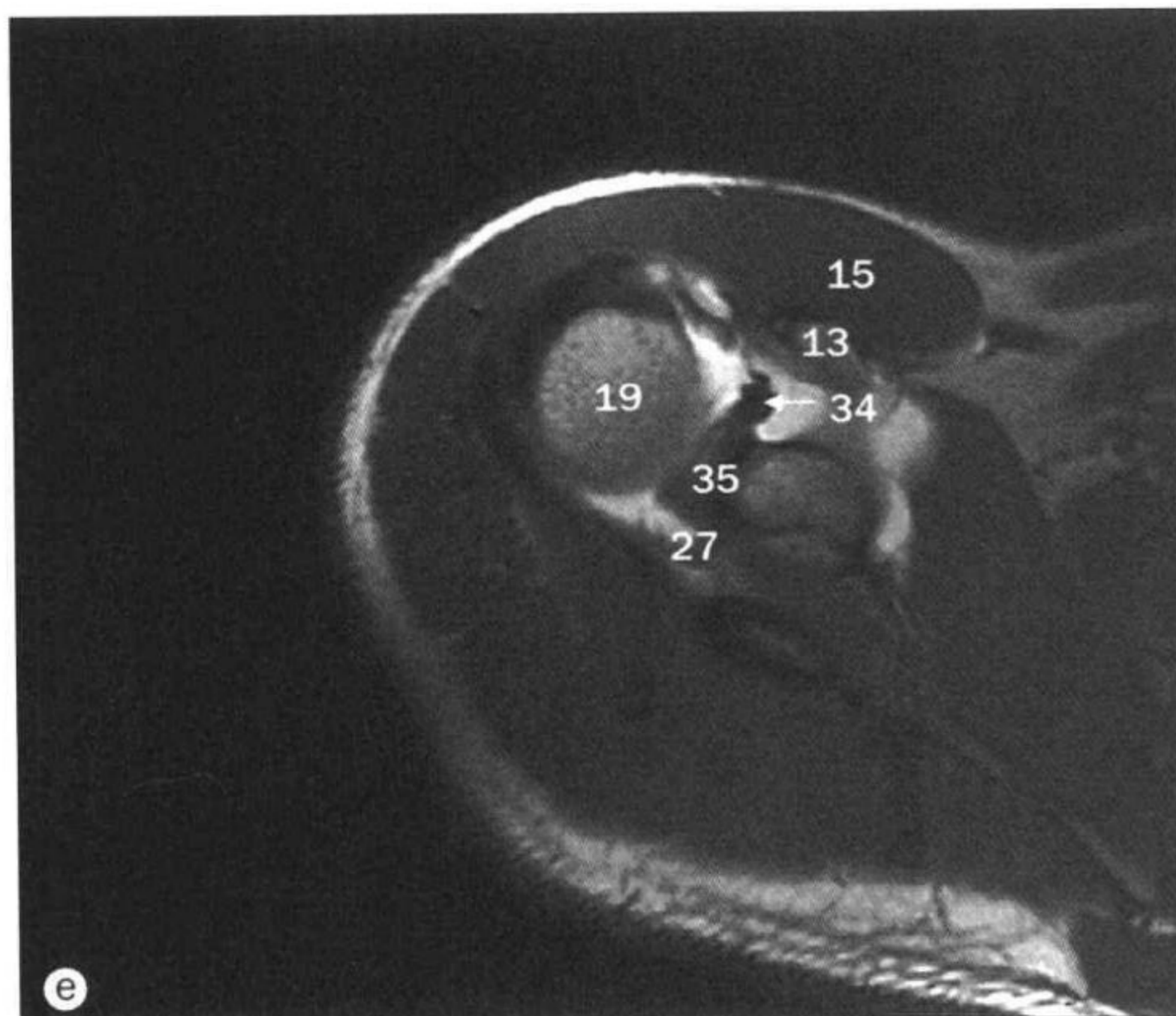
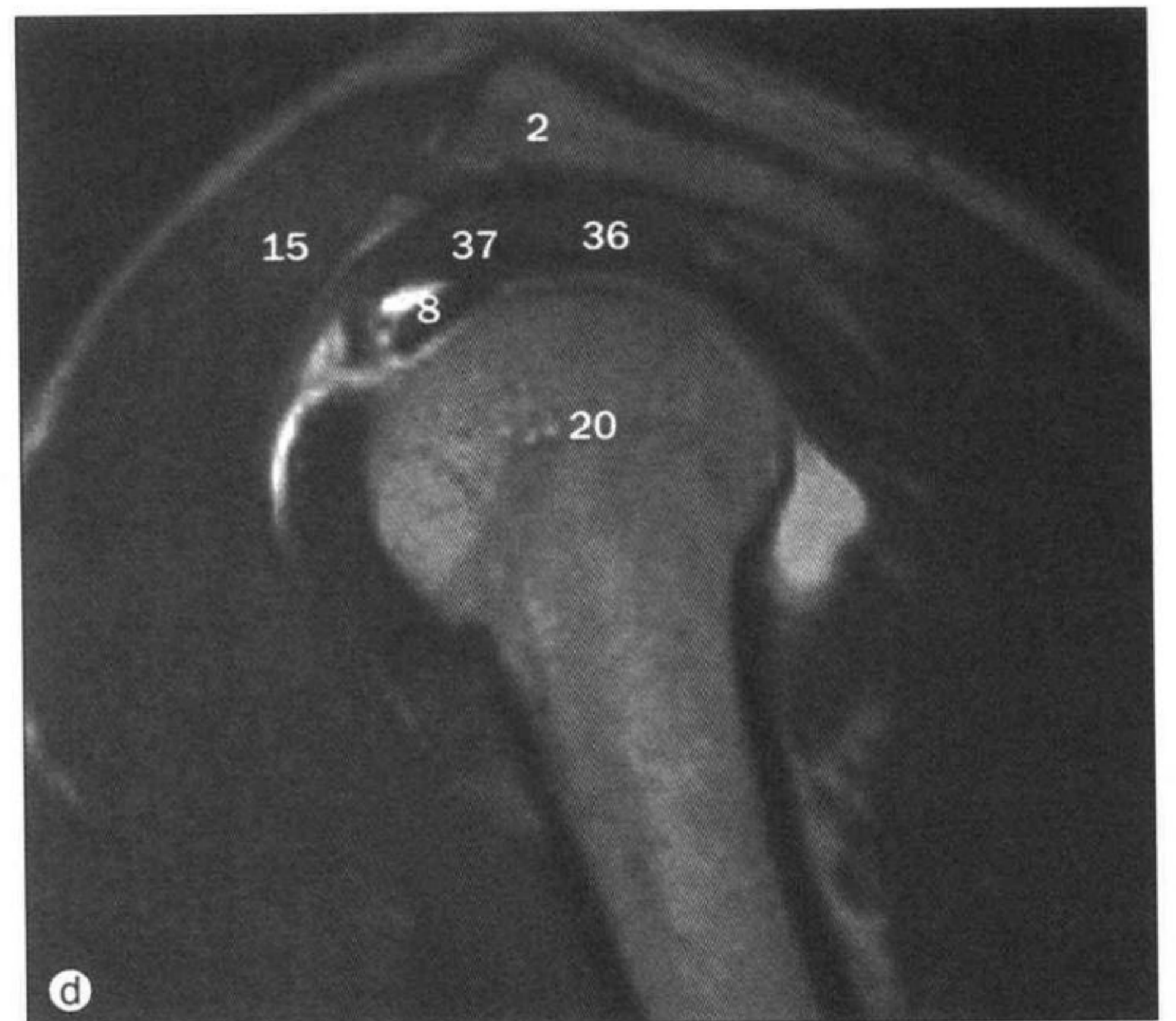
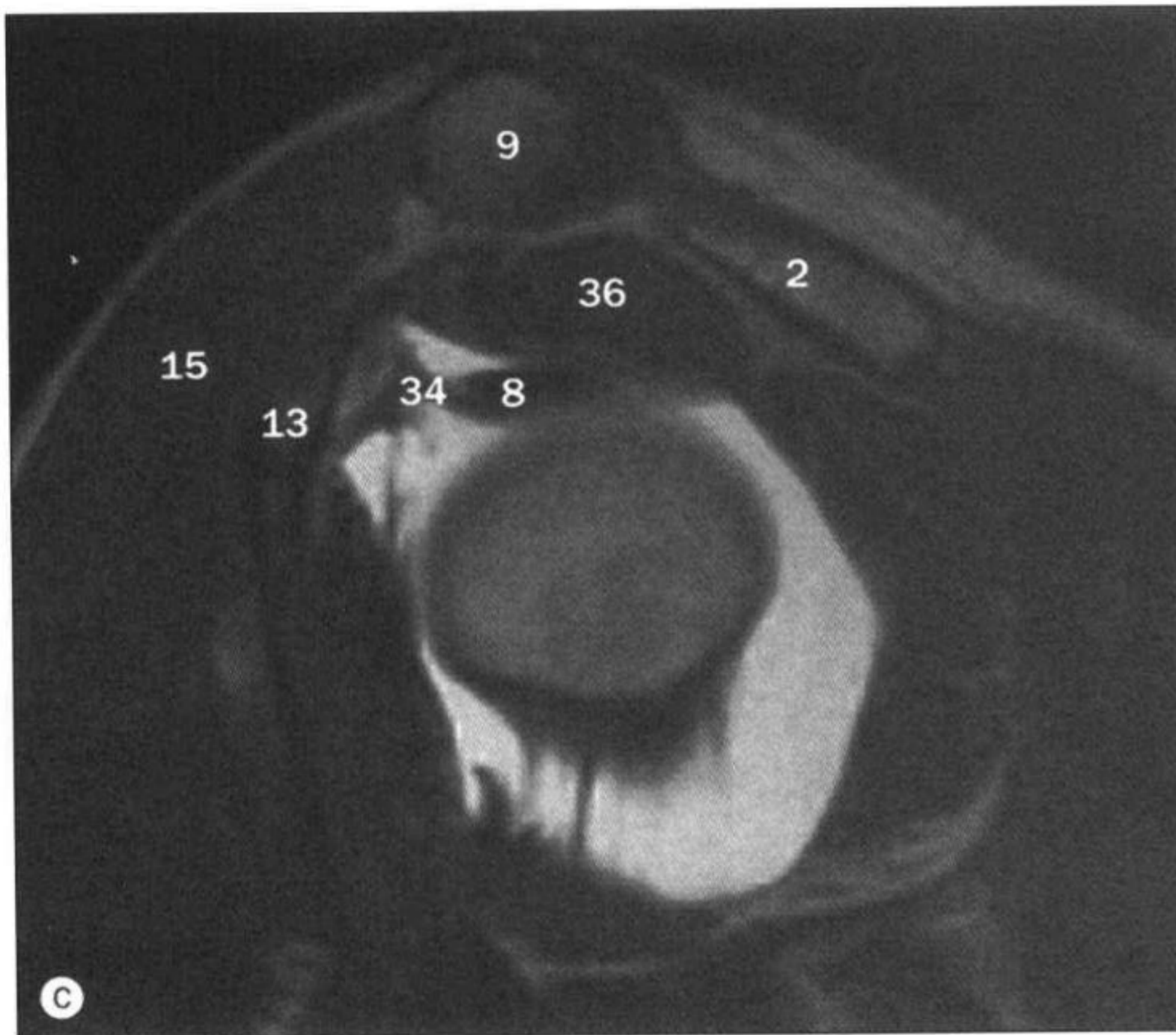
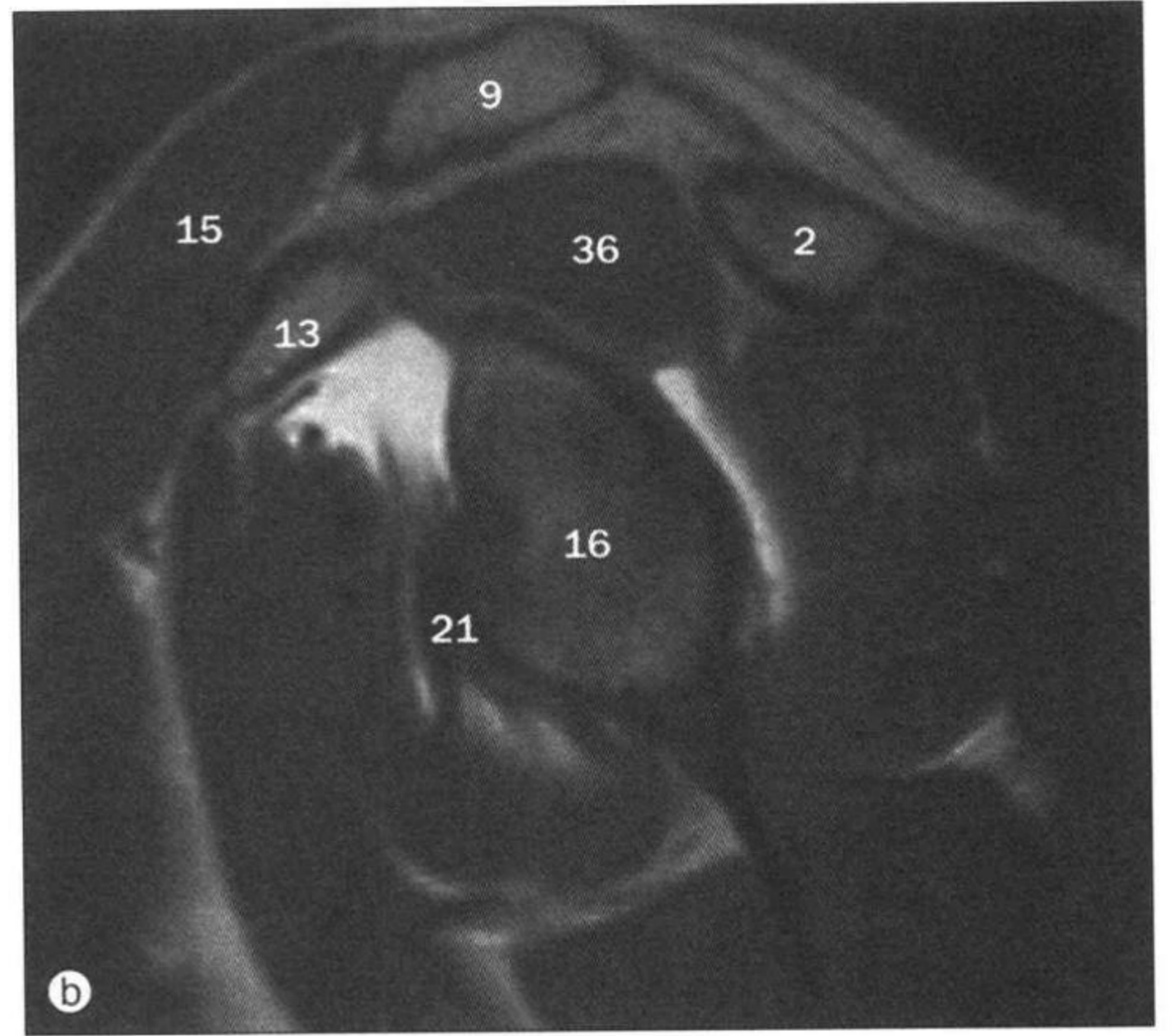
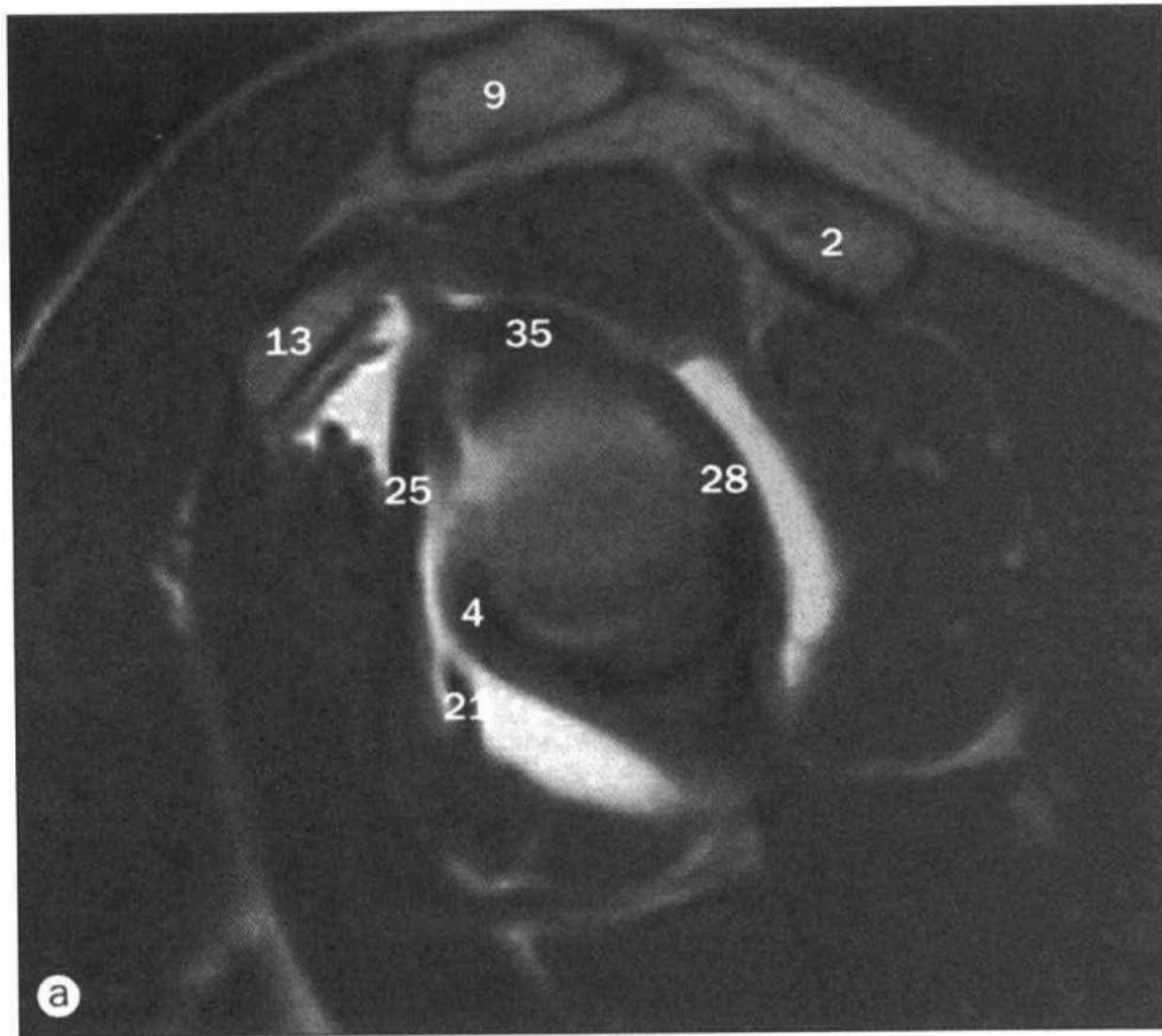


25 中孟肱韧带 middle glenohumeral ligament
 26 胸小肌 pectoralis minor muscle
 27 肩关节后囊 posterior capsule of shoulder joint
 28 后缘 posterior labrum
 29 肩部回旋肌群 rotator cuff
 30 肩胛骨 scapula
 31 肩胛冈 spine of scapula
 32 肩胛下肌 subscapularis muscle

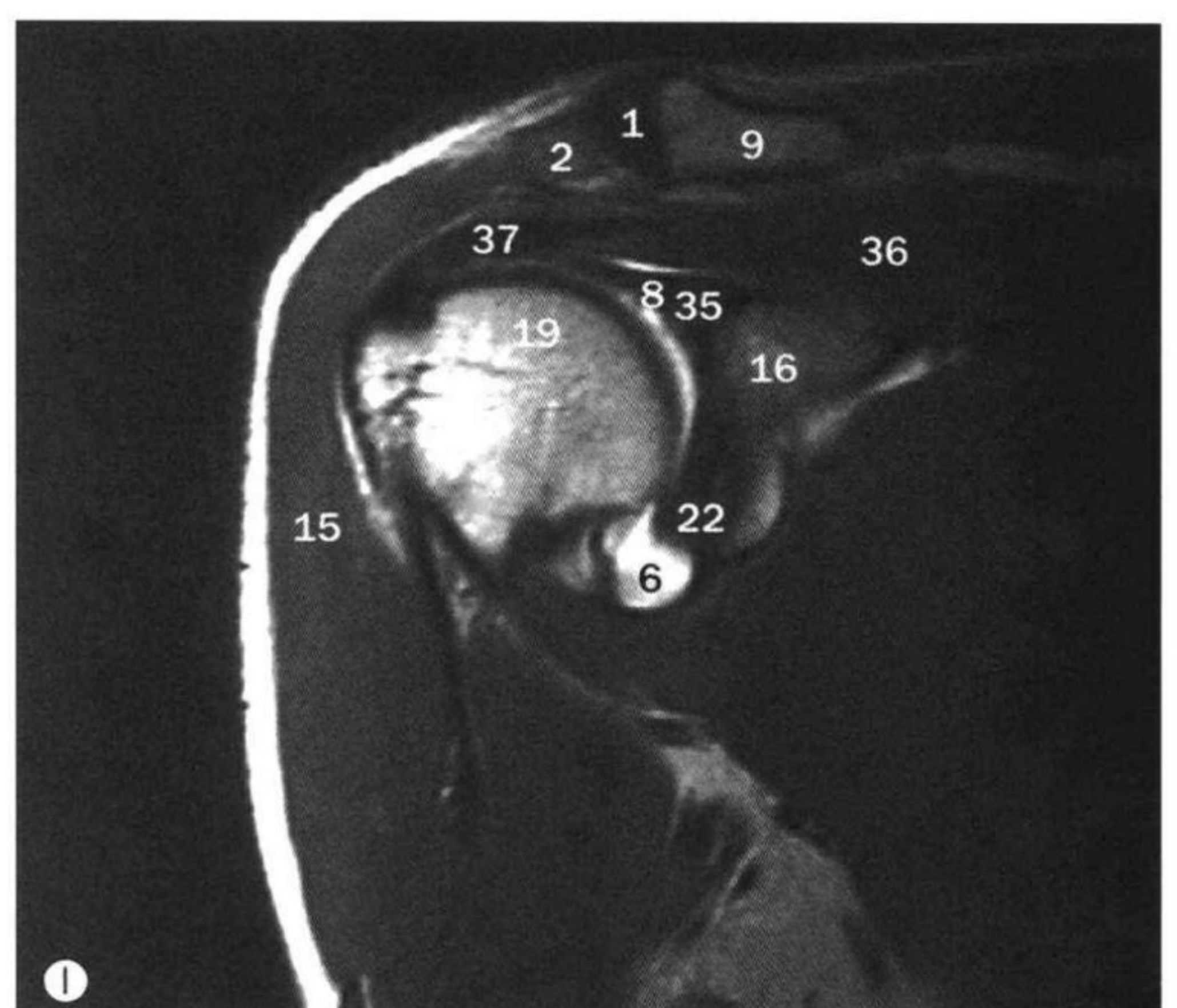
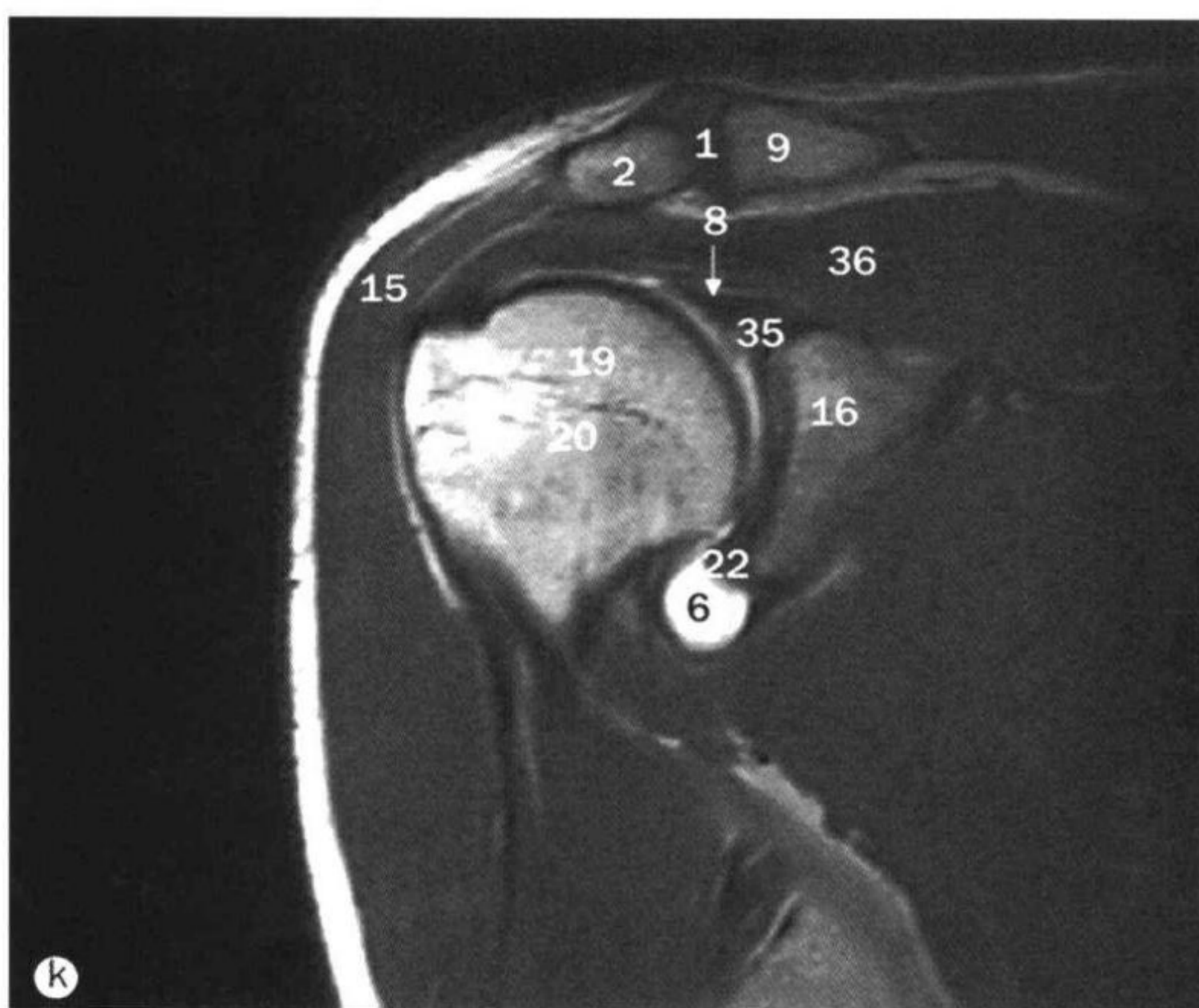
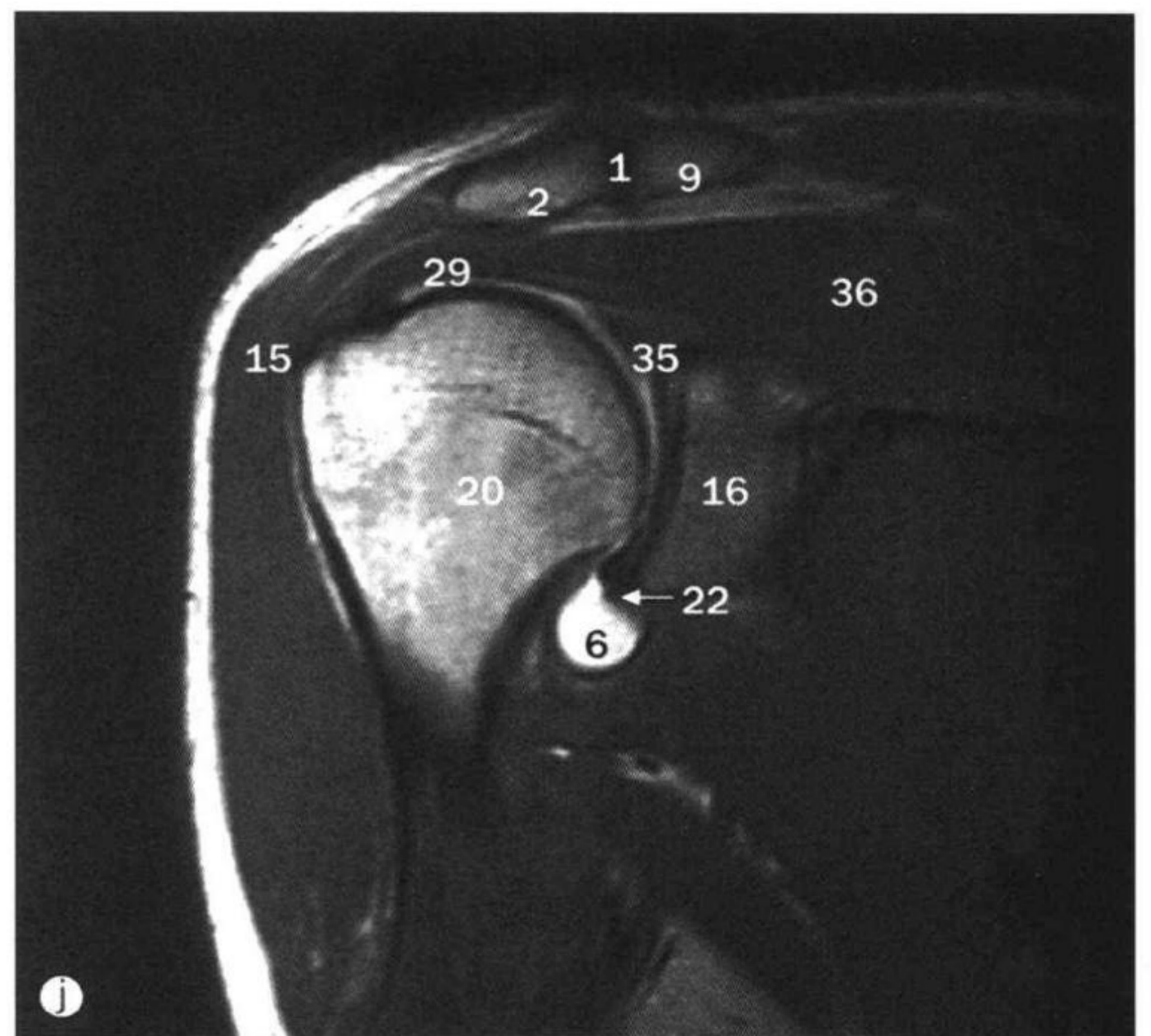
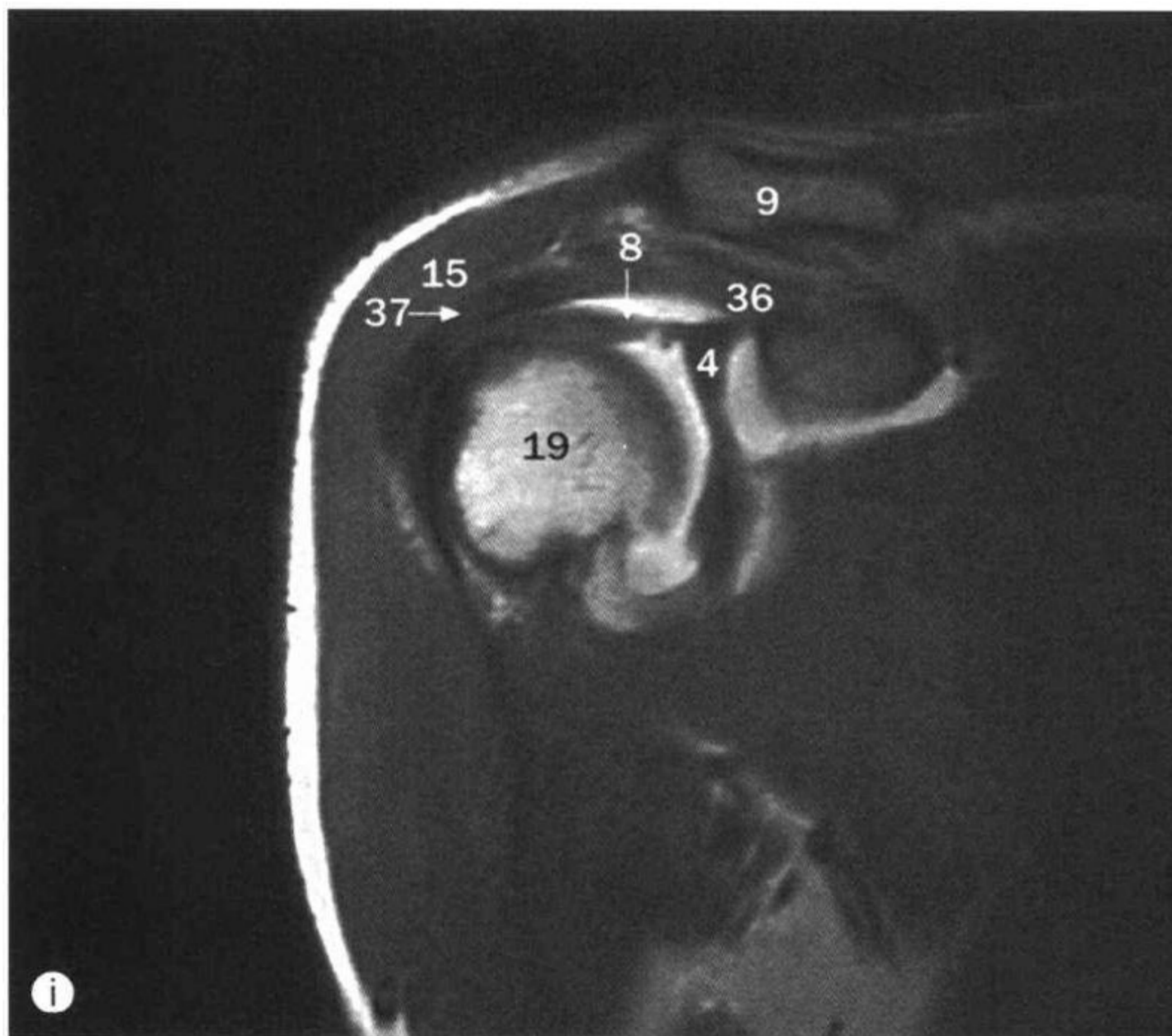
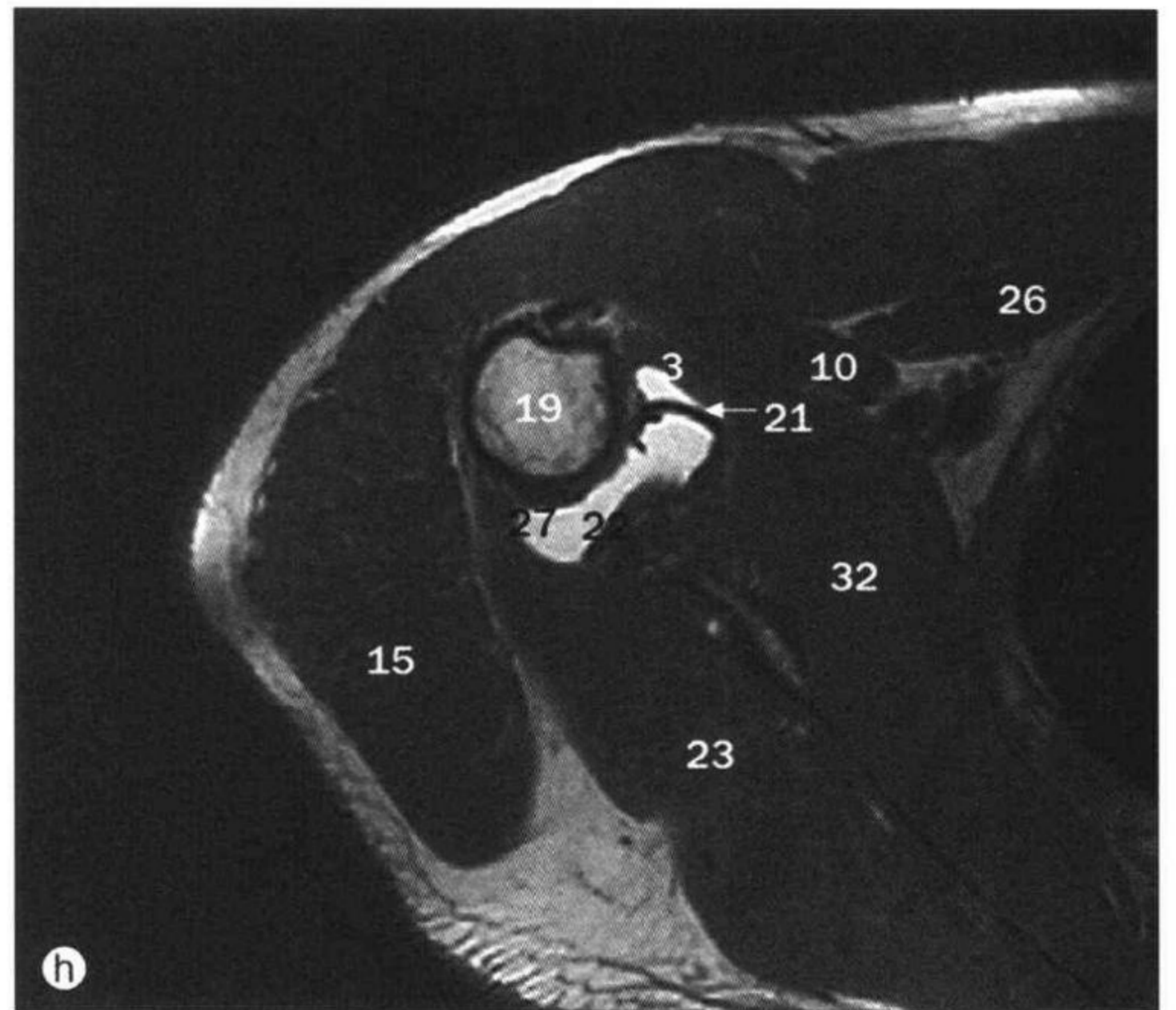
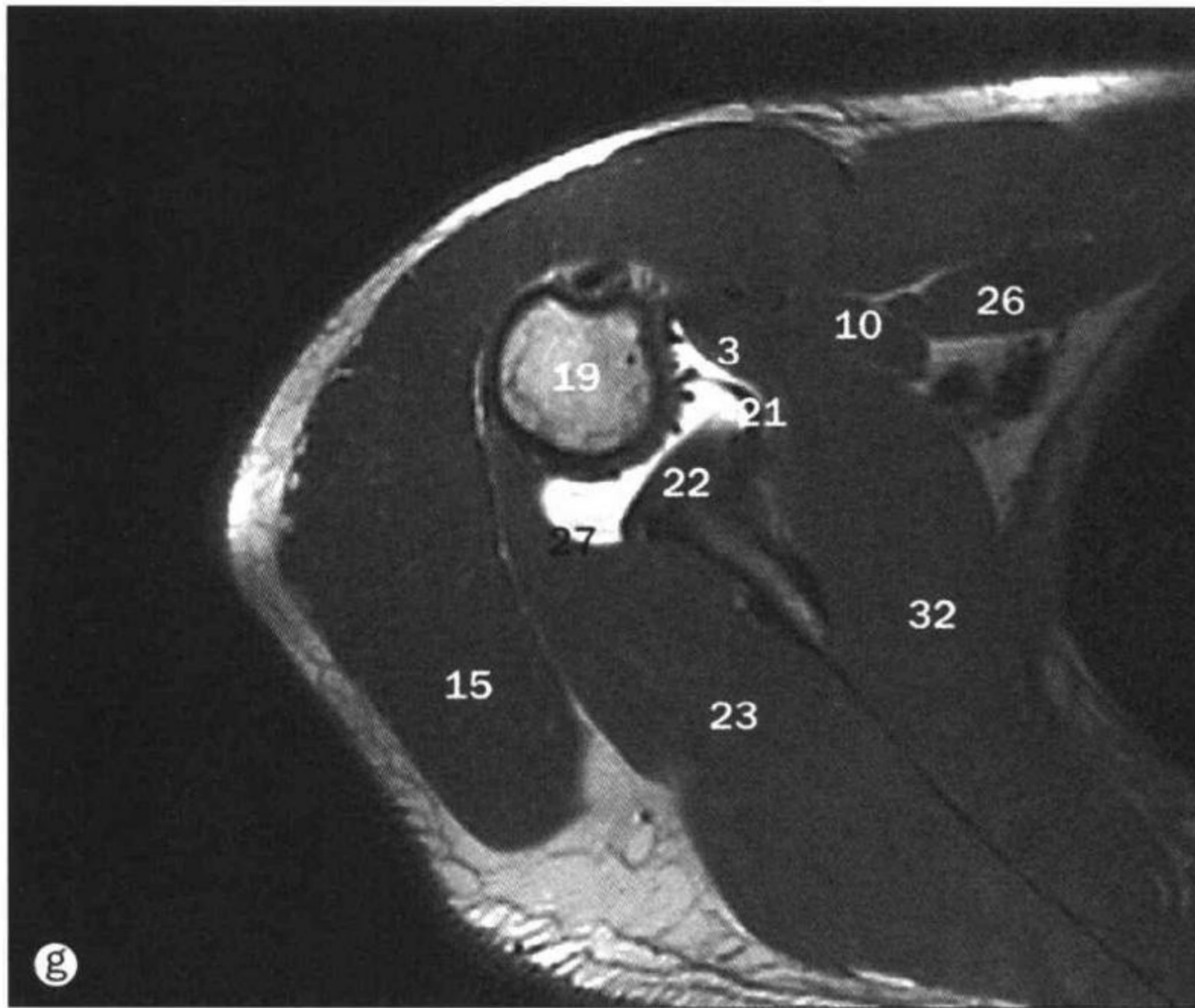
33 肩胛下肌肌腱 subscapularis tendon
 34 上孟肱韧带 superior glenohumeral ligament
 35 上缘 superior labrum
 36 冈上肌 supraspinatus muscle
 37 冈上肌肌腱 supraspinatus tendon
 38 小圆肌 teres minor muscle
 39 斜方肌 trapezius muscle



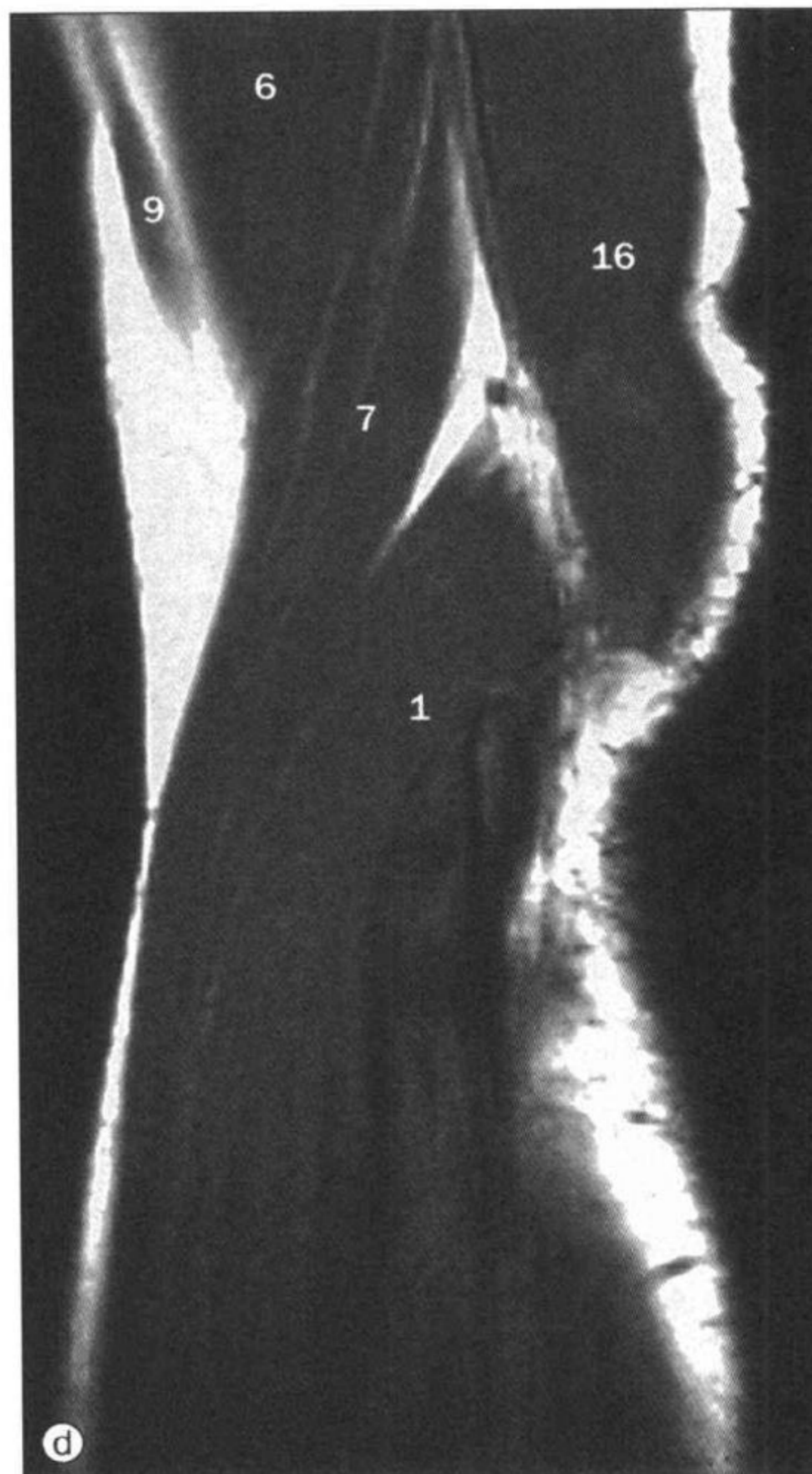
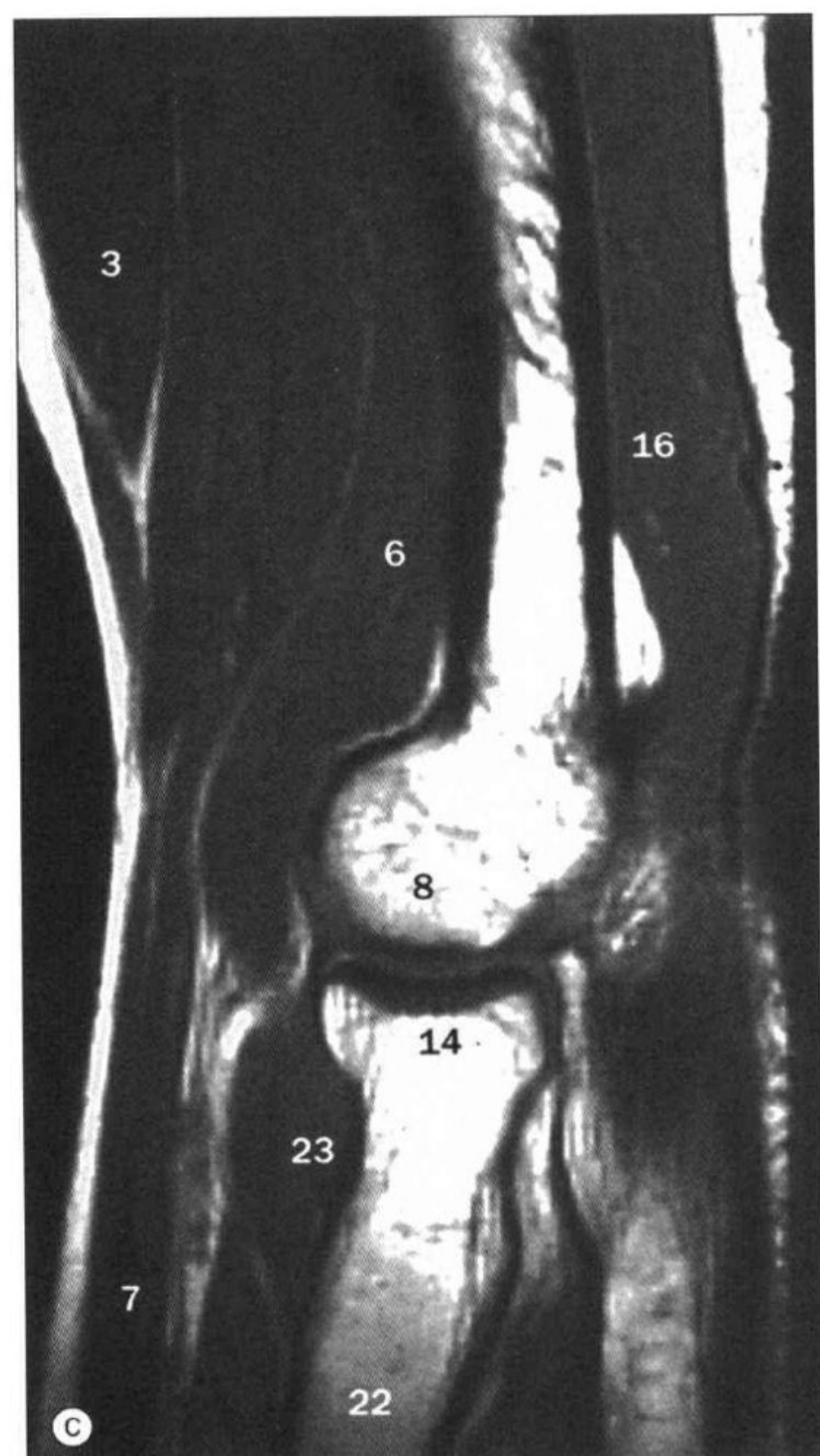
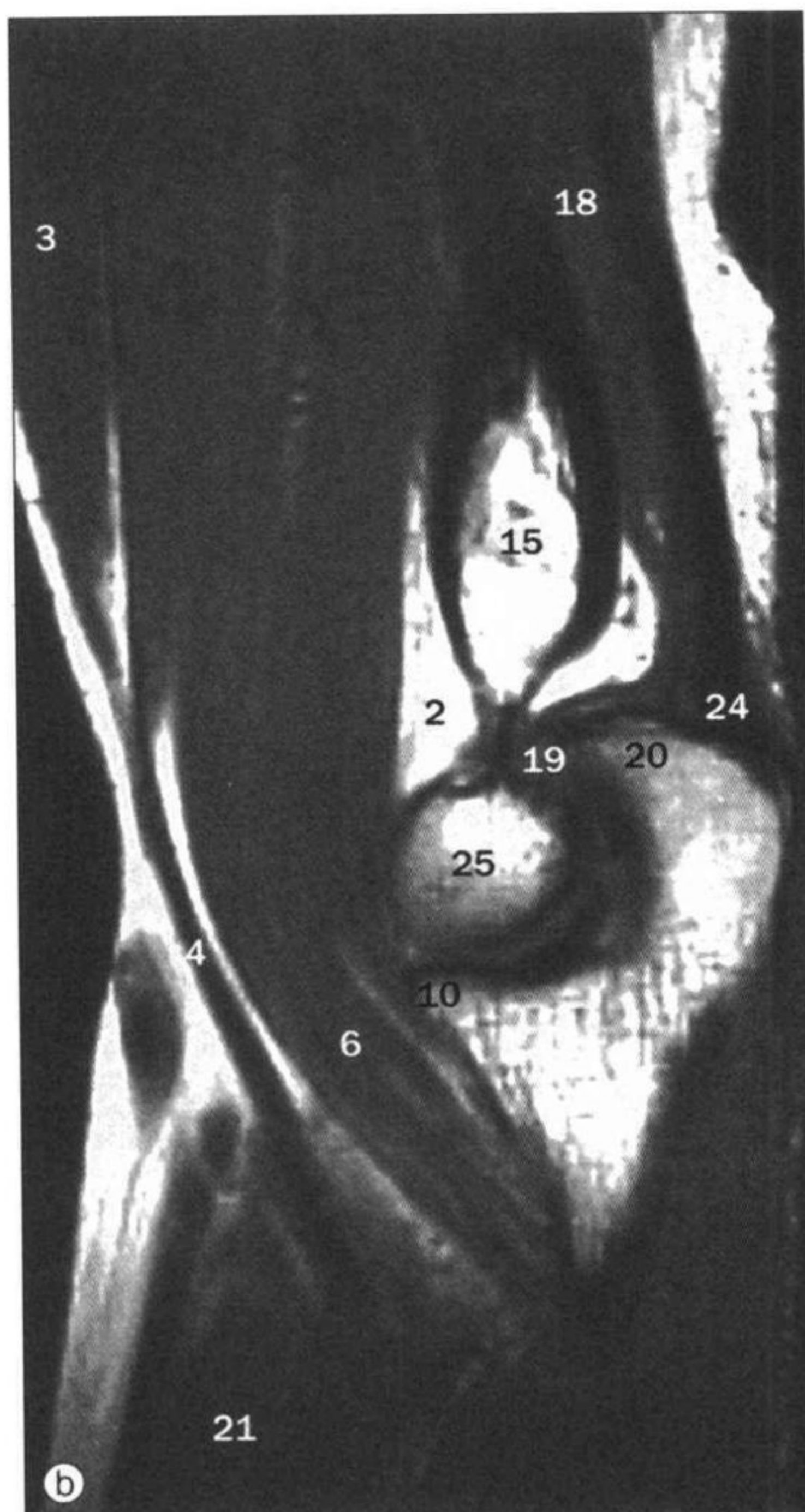
a~f. 肩，冠状斜位 MRI。图注见第 78、79 页。



肩关节，MR 关节造影，钆增强后。a~d. 矢状斜位；e~h. 轴位；i~l. 斜冠状位。图注见第 78、79 页。



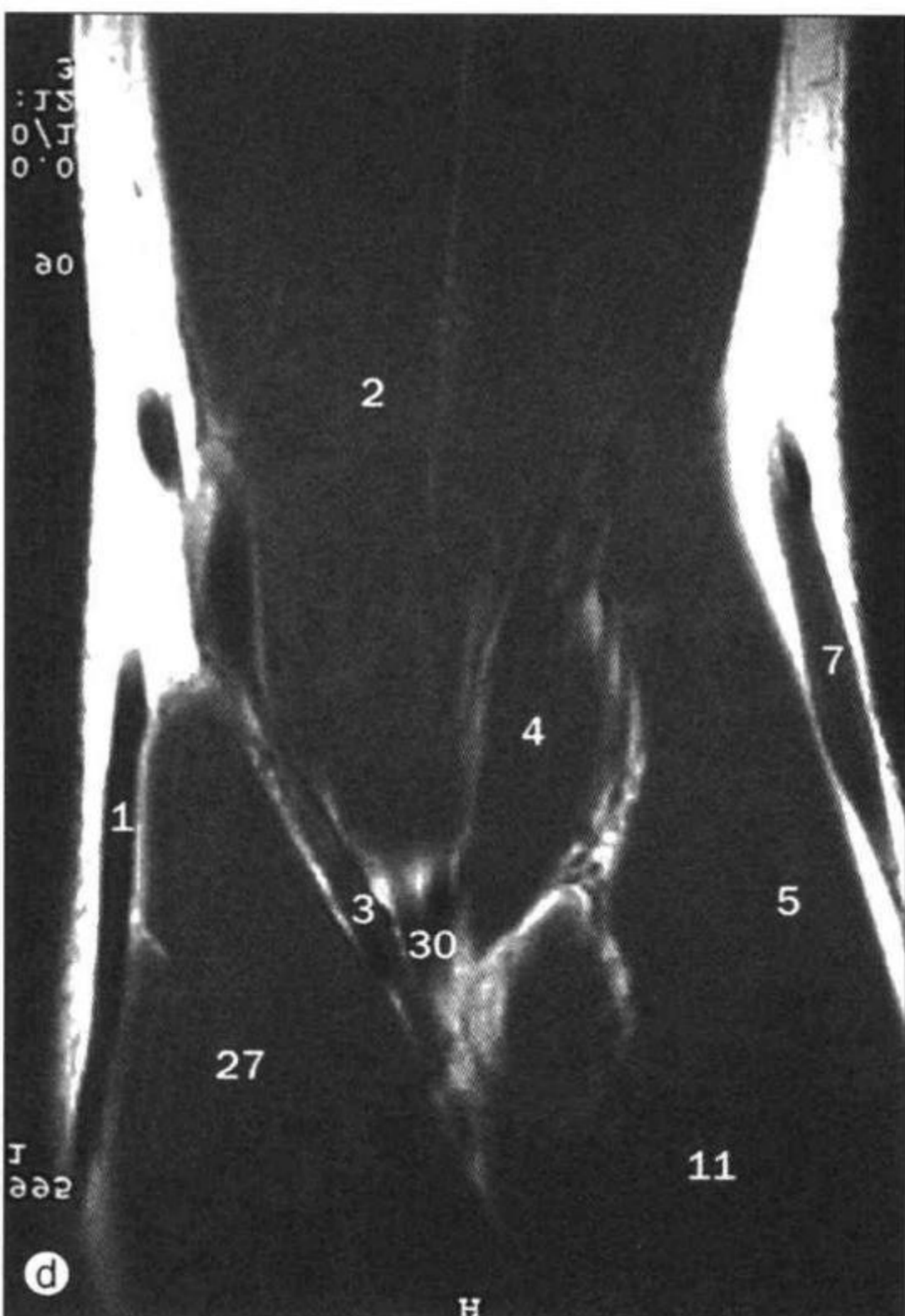
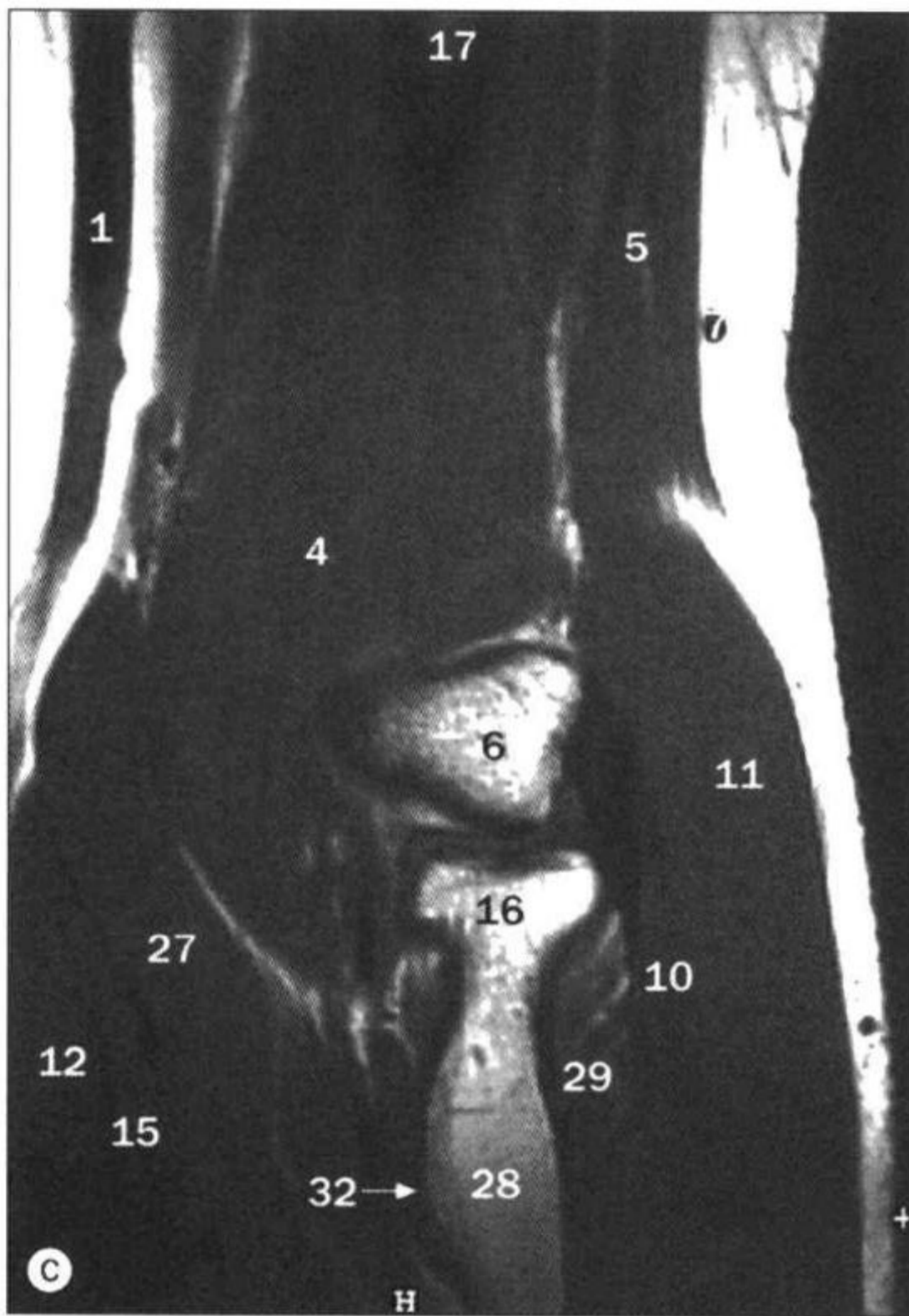
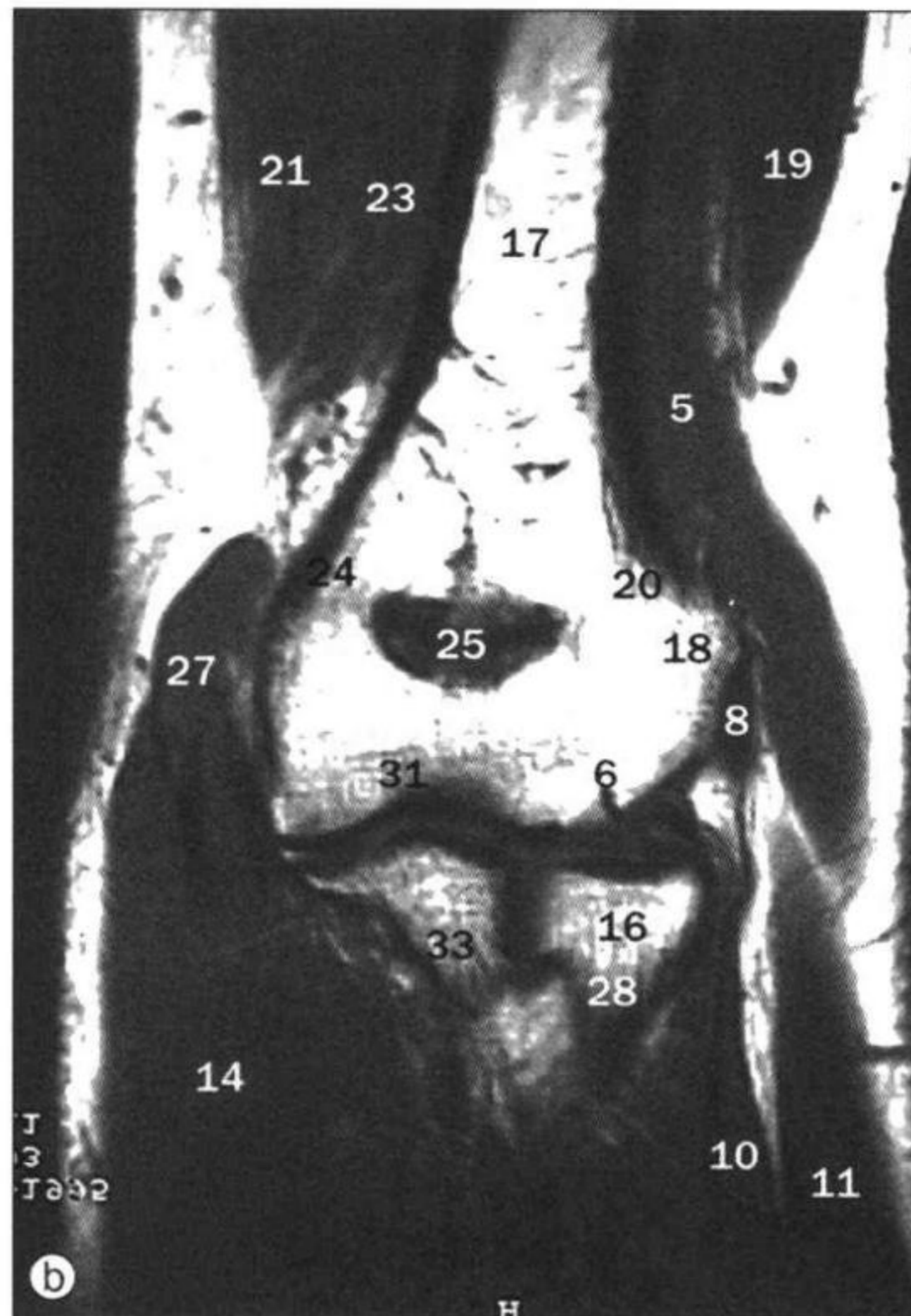
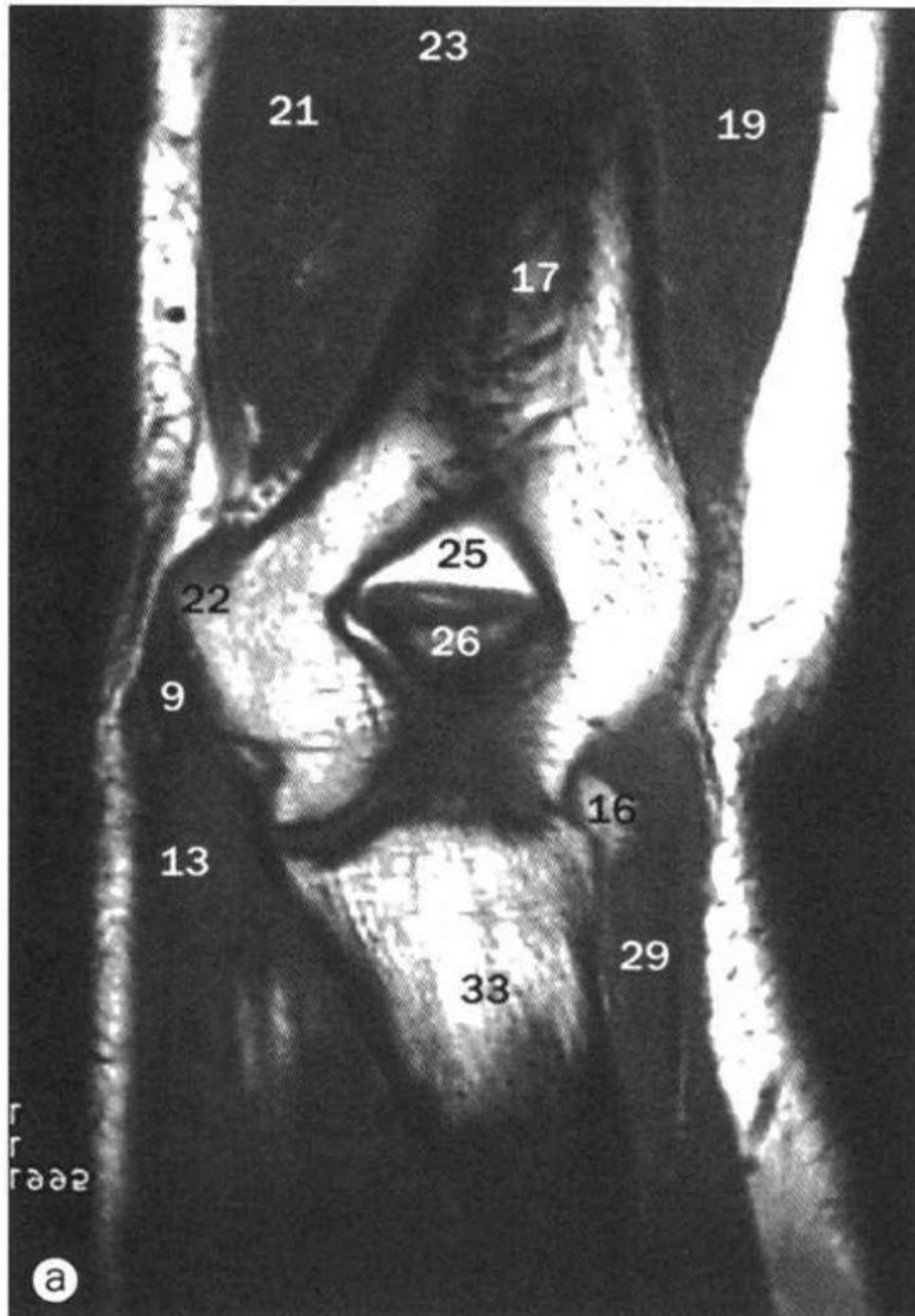
肩关节，MR 关节造影，钆增强后（续）。



a~d. 肘, 矢状位 MRI。

- 1 拇长展肌
abductor pollicis longus muscle
- 2 前脂垫 anterior fat pad
- 3 肱二头肌
biceps brachii muscle
- 4 肱二头肌肌腱
biceps brachii tendon
- 5 肱动脉 brachial artery
- 6 肱肌 brachialis muscle
- 7 肱桡肌 brachioradialis muscle
- 8 肱骨小头
capitulum of humerus
- 9 头静脉 cephalic vein
- 10 尺骨冠突
coronoid process of ulna
- 11 尺侧腕屈肌
flexor carpi ulnaris muscle
- 12 指深屈肌 flexor digitorum profundus muscle
- 13 指浅屈肌 flexor digitorum superficialis muscle
- 14 桡骨头 head of radius
- 15 肱骨 humerus
- 16 三头肌外侧头
lateral head of triceps muscle
- 17 内上髁 medial epicondyle
- 18 三头肌内侧头
medial head of triceps muscle
- 19 肱骨鹰嘴窝
olecranon fossa of humerus
- 20 尺骨鹰嘴
olecranon process of ulna
- 21 旋前圆肌
pronator teres muscle
- 22 桡骨 radius
- 23 旋后肌 supinator muscle
- 24 三头肌肌腱
tendon of triceps muscle
- 25 肱骨滑车
trochlea of humerus

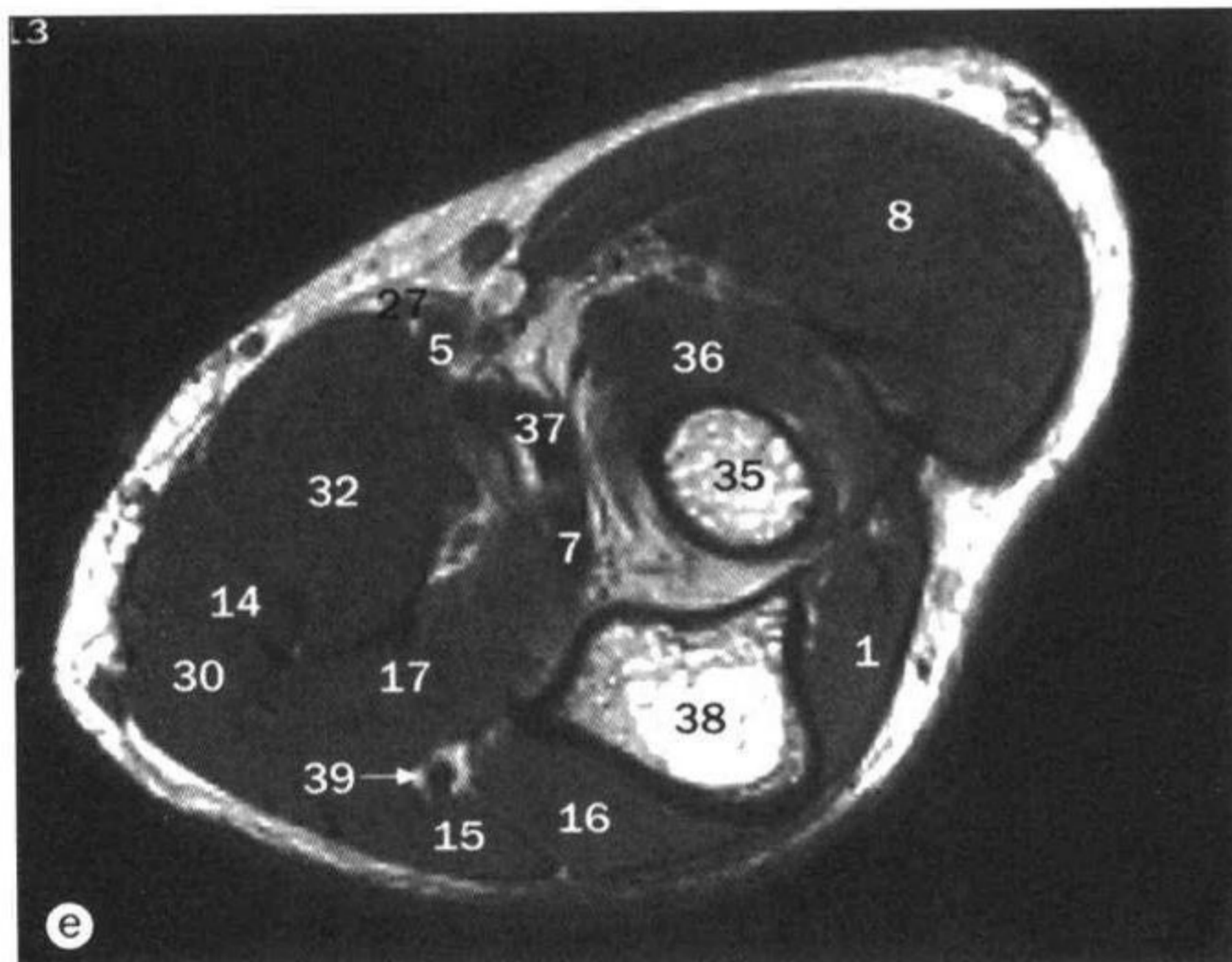
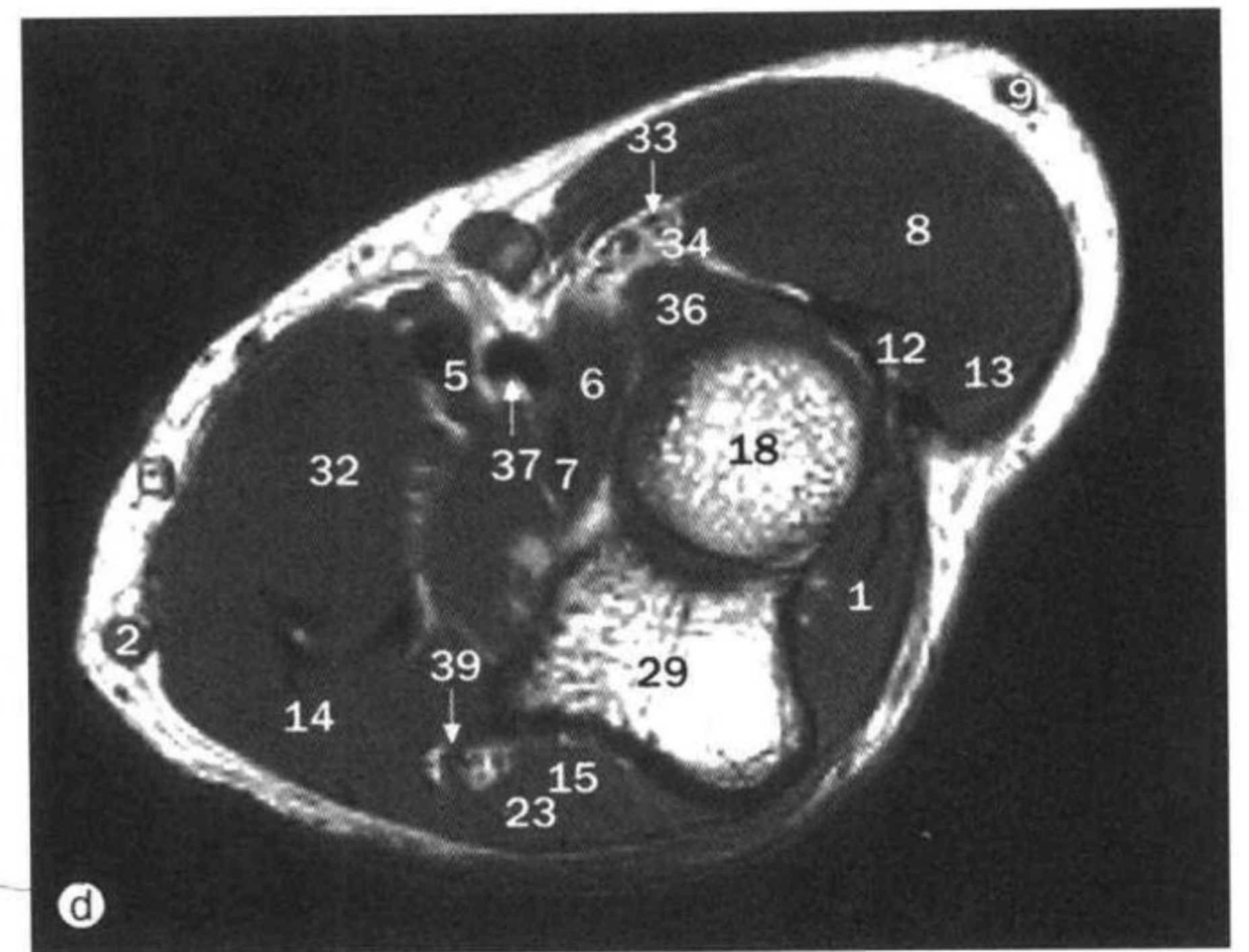
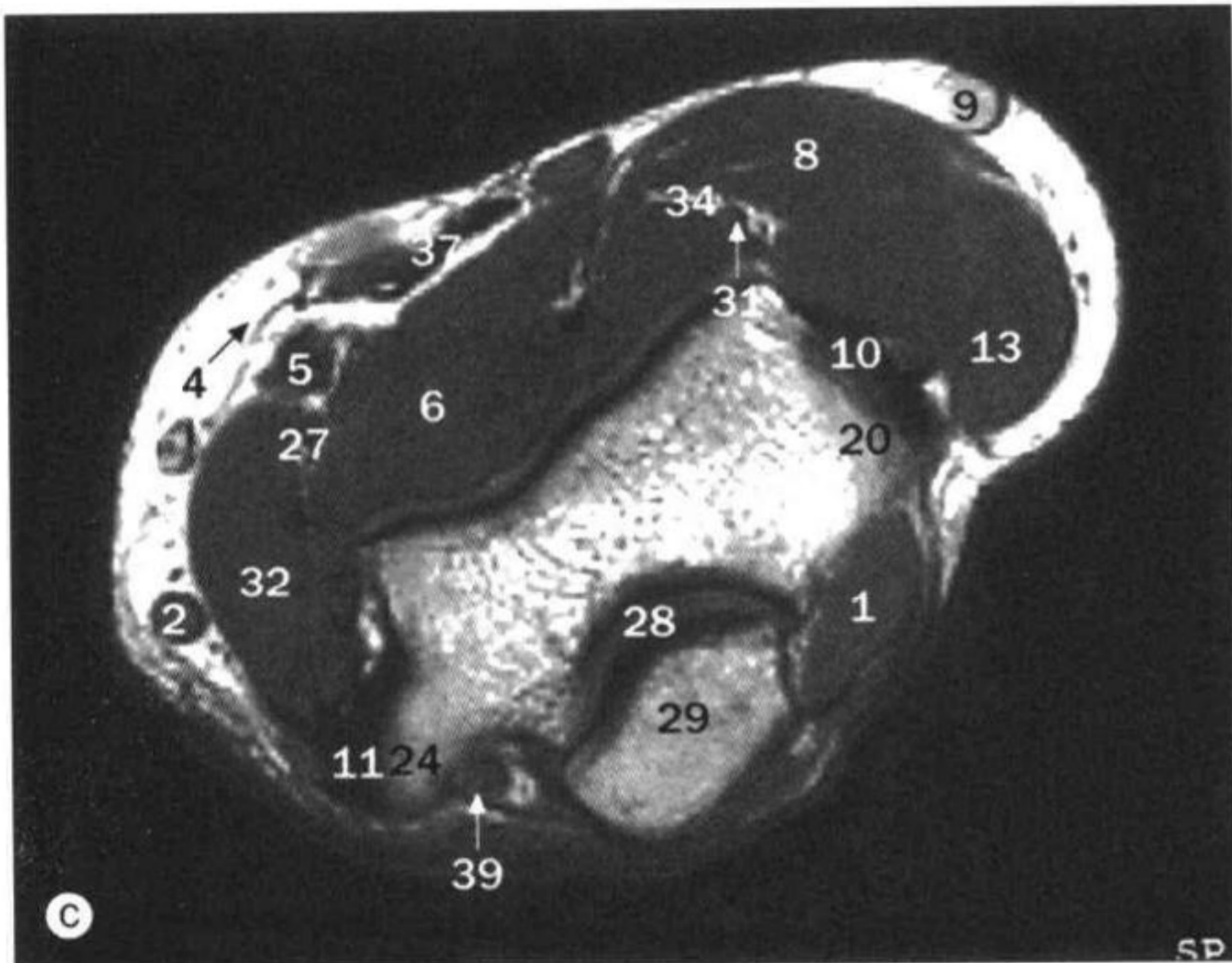
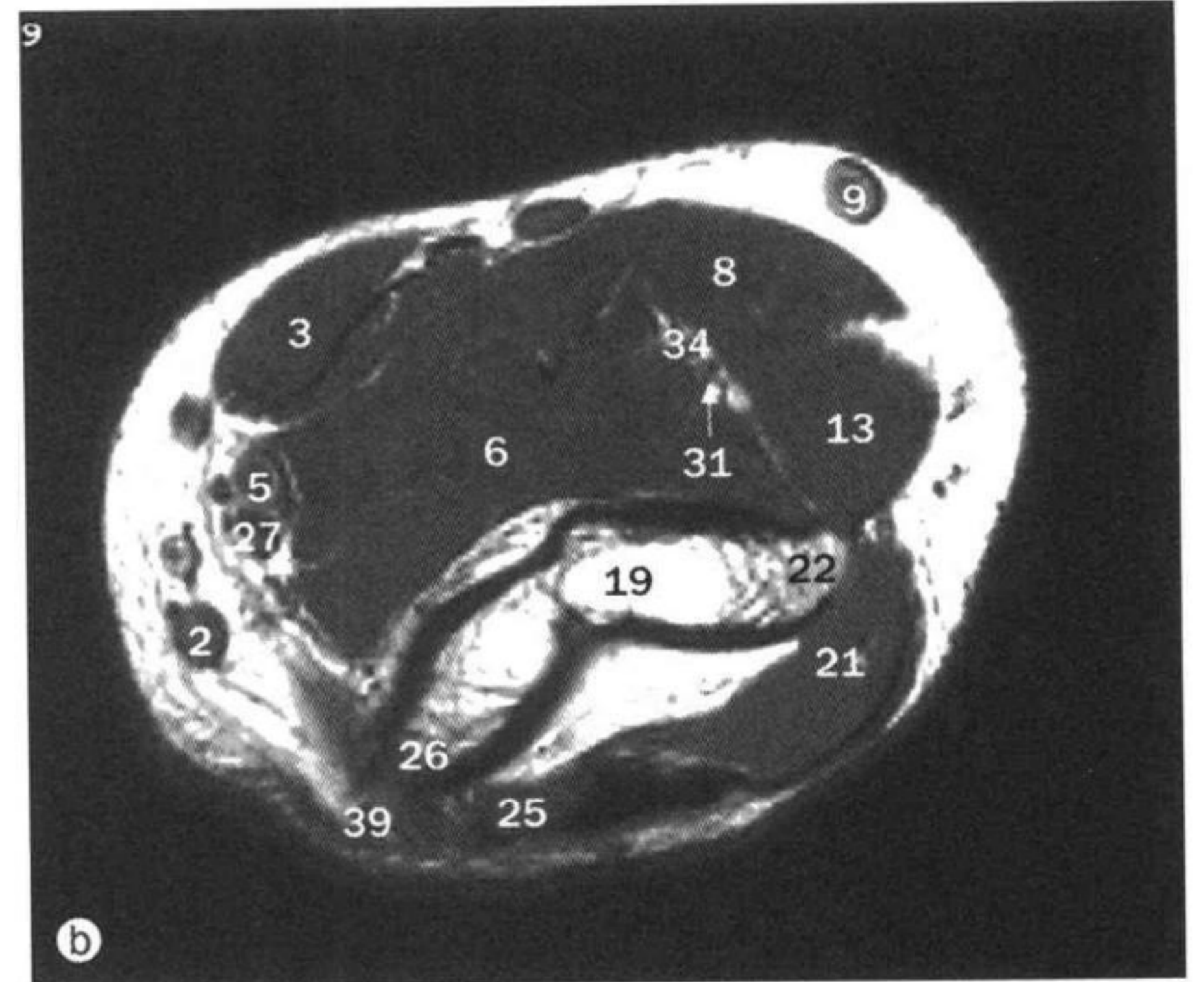
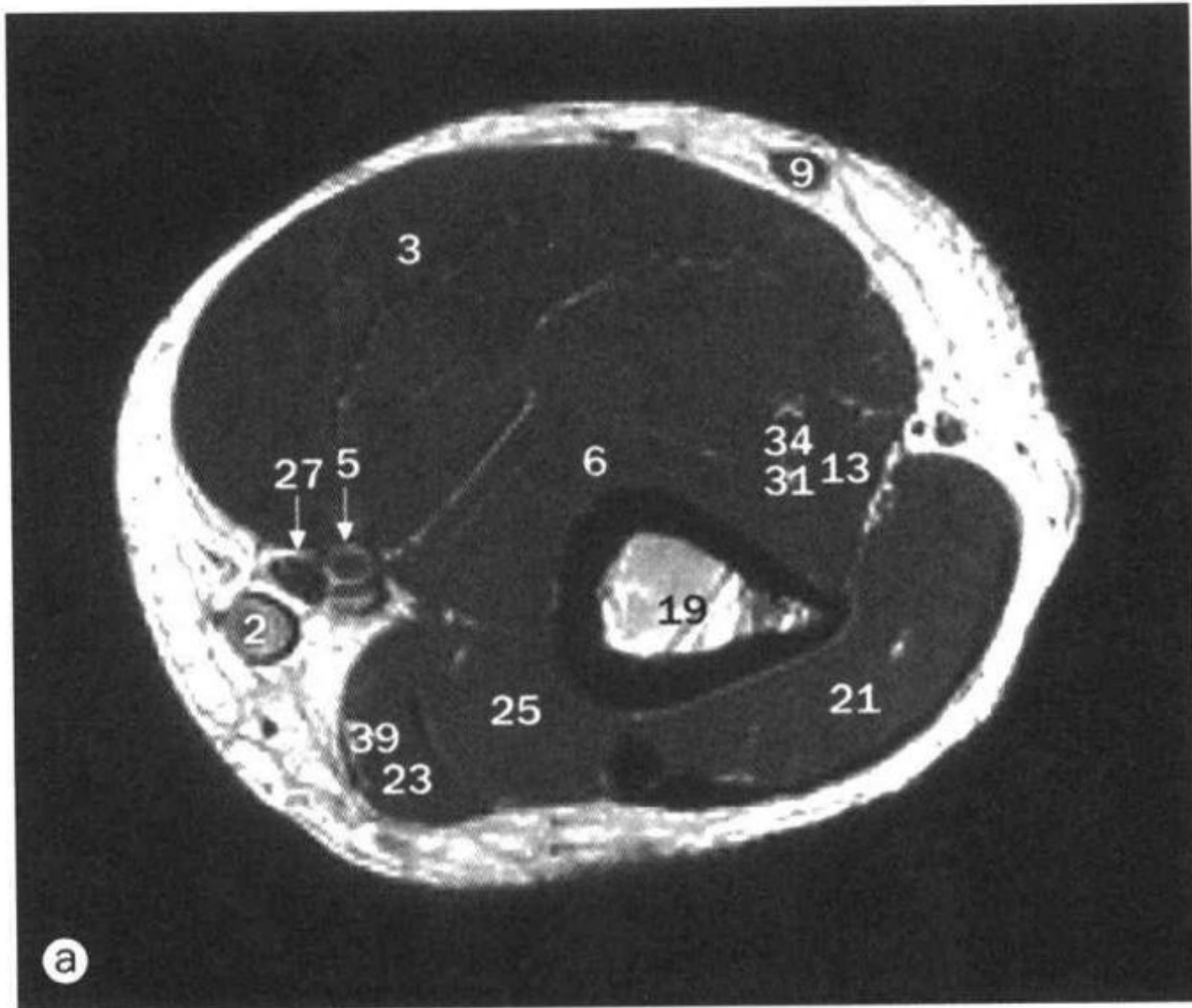
a~d. 肘, 冠状位 MRI。



- 1 贵要静脉 basilic vein
- 2 肱二头肌 biceps brachii muscle
- 3 肱动脉 brachial artery
- 4 肱肌 brachialis muscle
- 5 肱桡肌 brachioradialis muscle
- 6 肱骨小头 capitulum of humerus
- 7 头静脉 cephalic vein
- 8 伸肌起点
common extensor origin
- 9 屈肌起点
common flexor origin
- 10 桡侧腕短伸肌 extensor carpi
radialis brevis muscle
- 11 桡侧腕长伸肌 extensor carpi
radialis longus muscle
- 12 桡侧腕屈肌
flexor carpi radialis muscle
- 13 尺侧腕屈肌
flexor carpi ulnaris muscle
- 14 指深屈肌 flexor digitorum
profundus muscle
- 15 指浅屈肌 flexor digitorum
superficialis muscle
- 16 桡骨头 head of radius
- 17 肱骨 humerus
- 18 外上髁 lateral epicondyle
- 19 三头肌外侧头
lateral head of triceps muscle
- 20 外侧髁上嵴
lateral supracondylar ridge
- 21 三头肌长头
long head of triceps muscle
- 22 内上髁 medial epicondyle
- 23 三头肌内侧头
medial head of triceps muscle

- 24 内侧髁上嵴
medial supracondylar ridge
- 25 肱骨鹰嘴窝
olecranon fossa of humerus
- 26 尺骨鹰嘴 olecranon process of ulna
- 27 旋前圆肌 pronator teres muscle

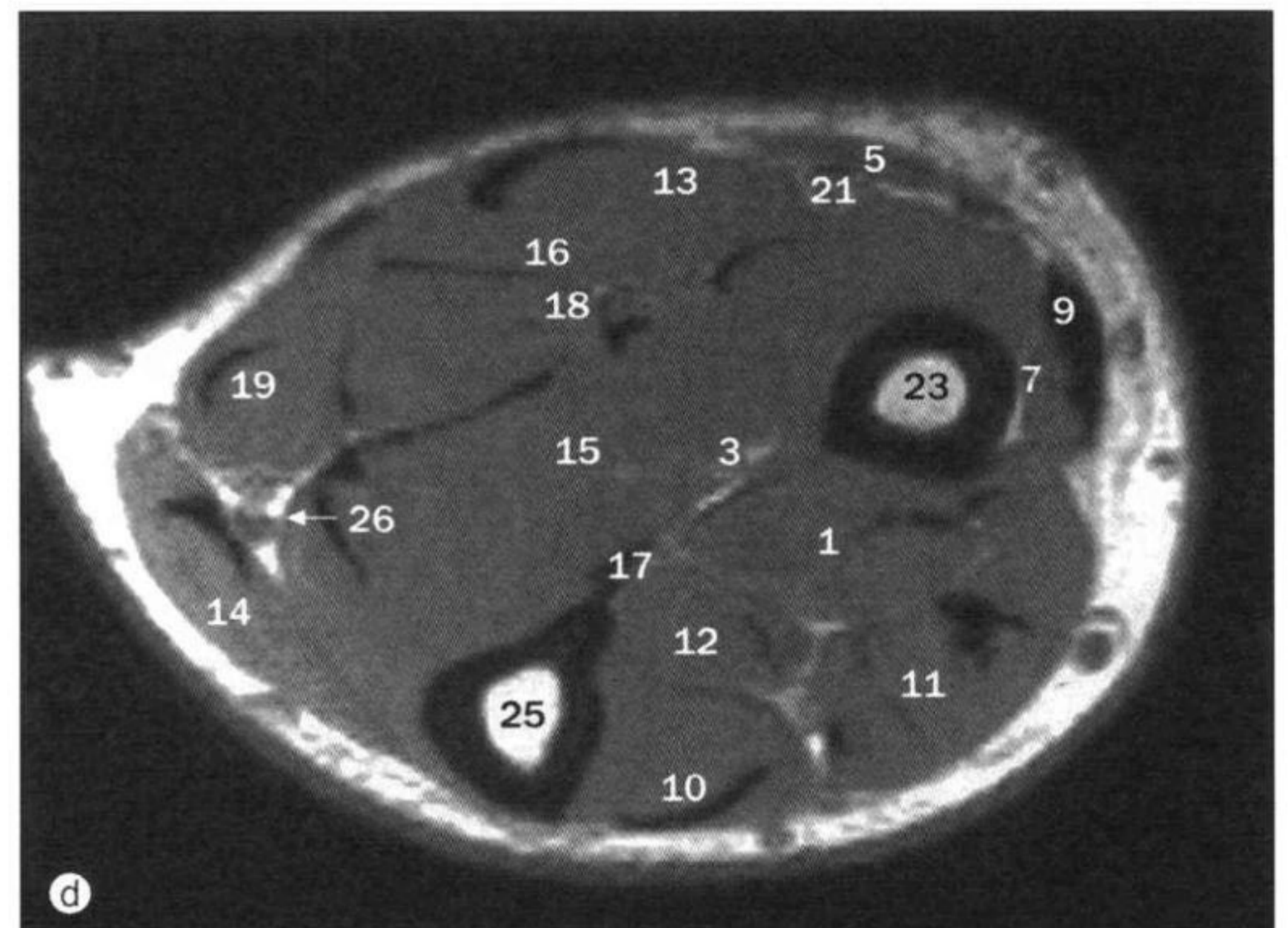
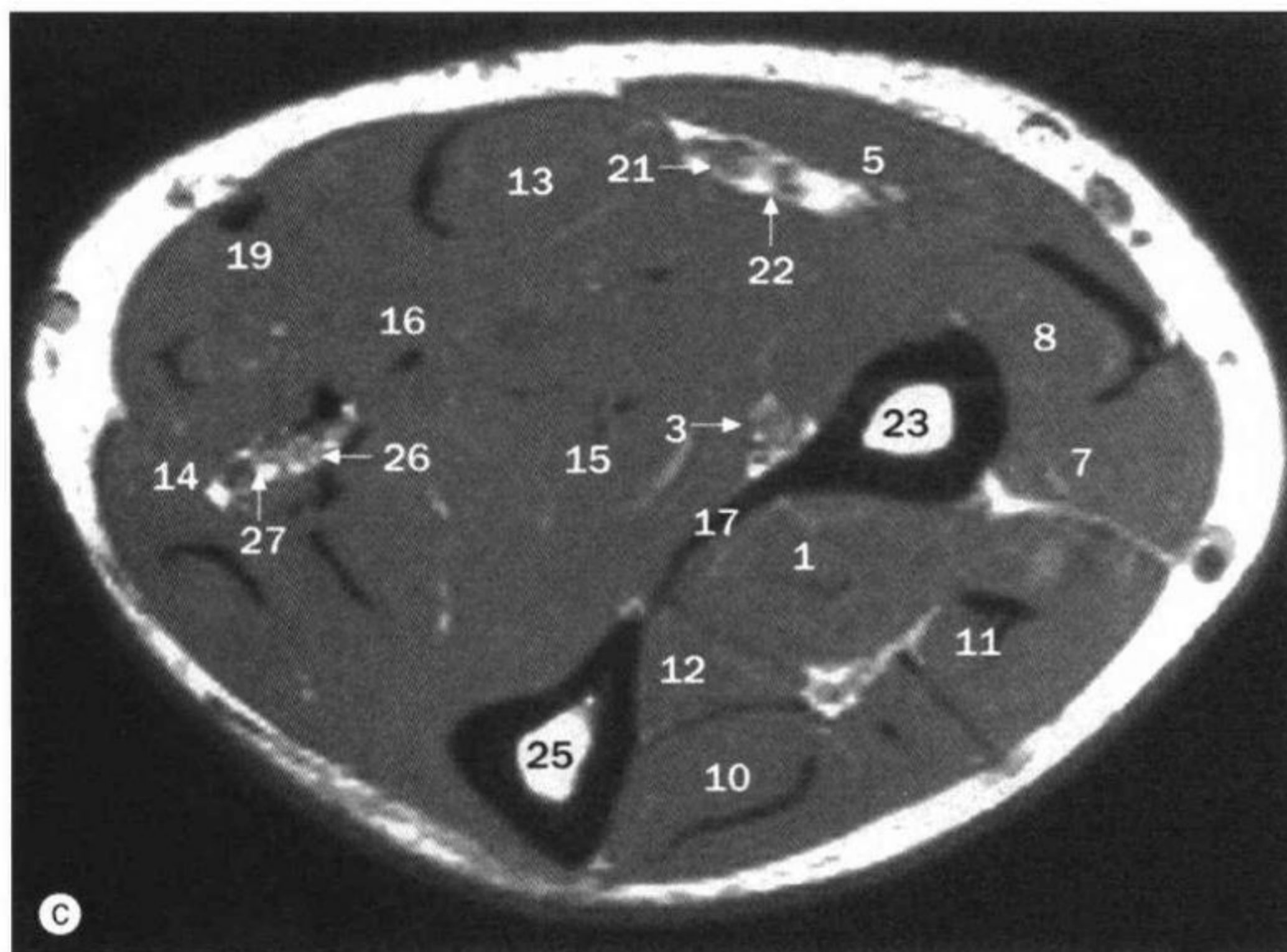
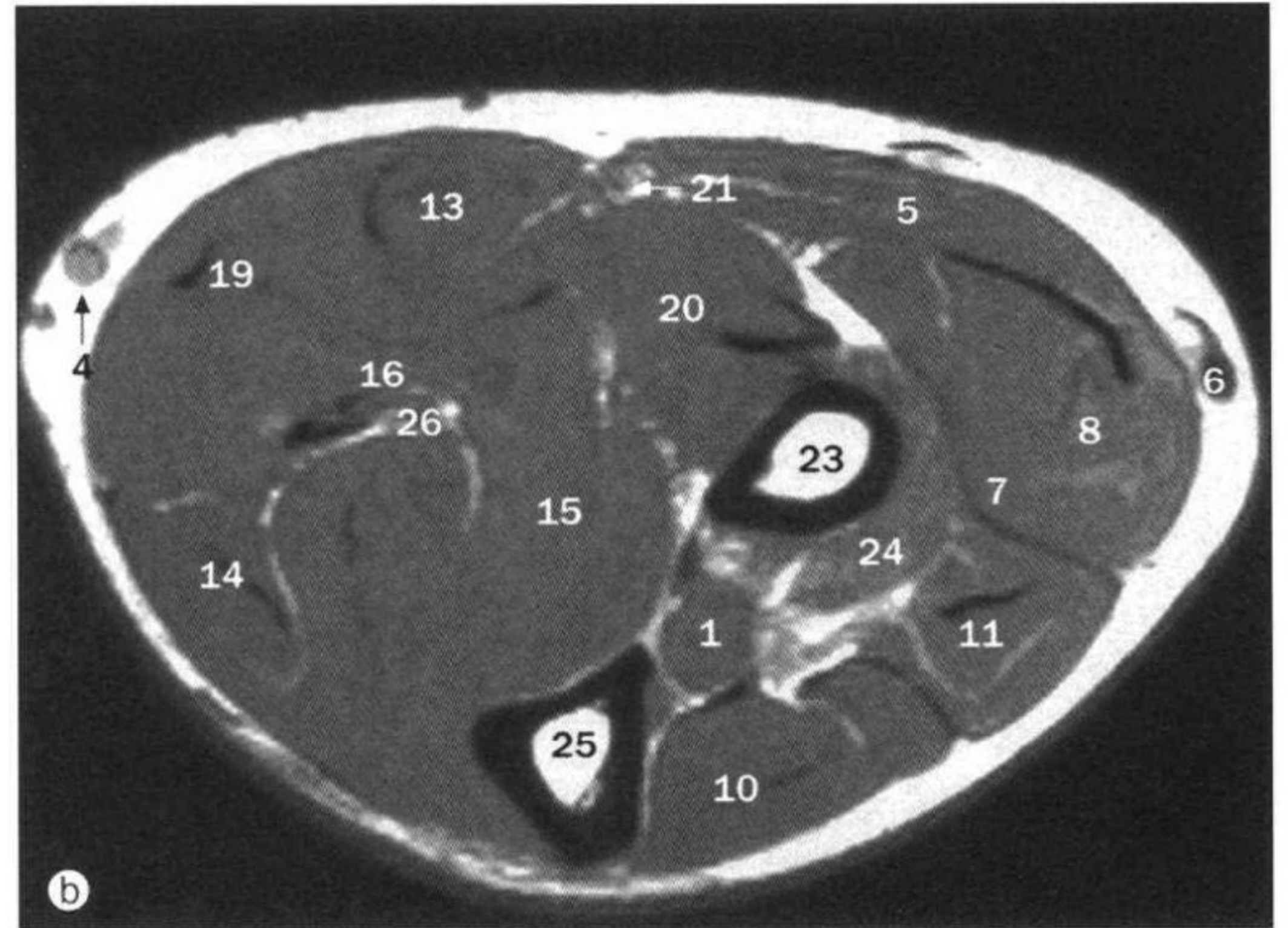
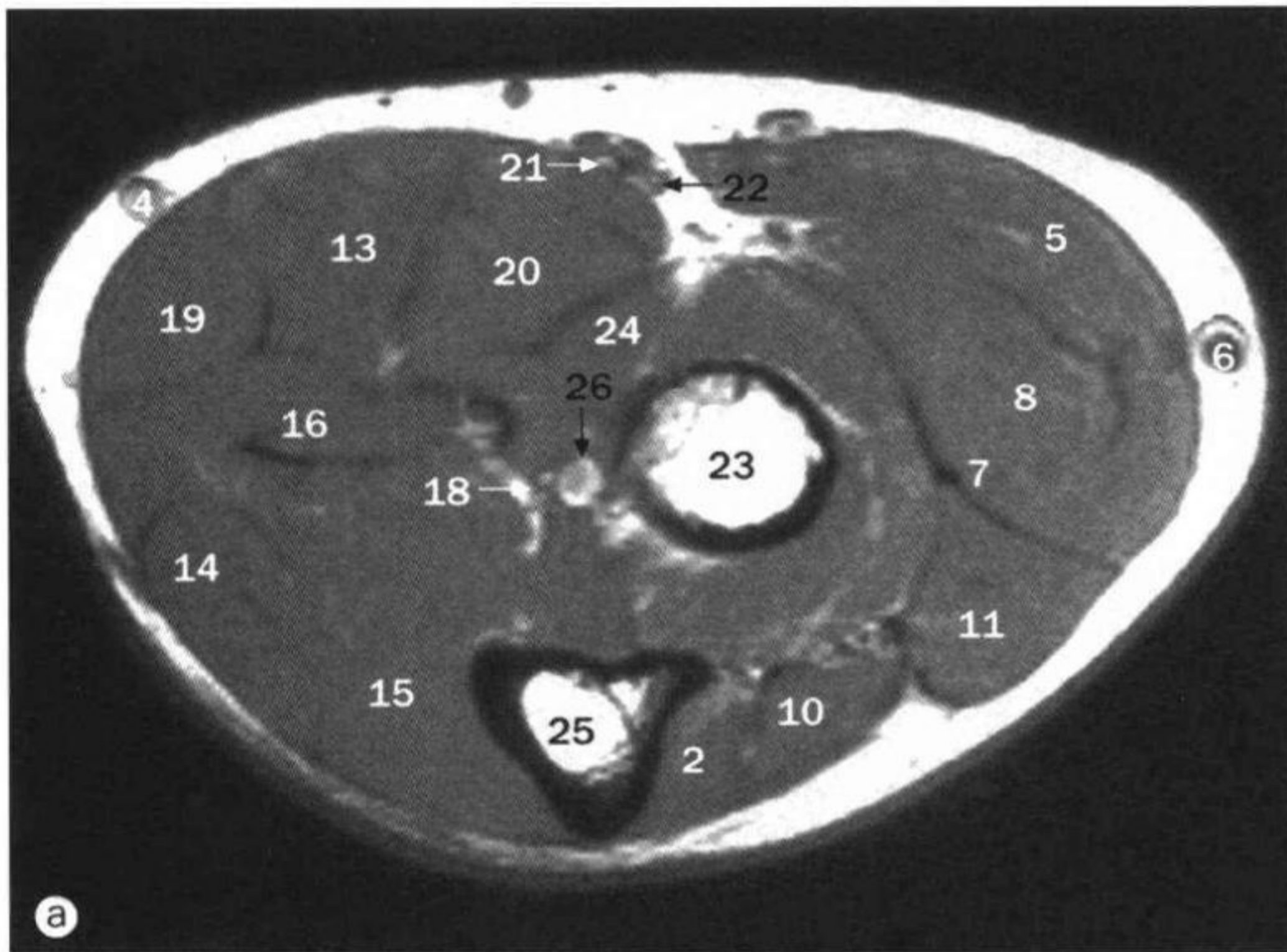
- 28 桡骨 radius
- 29 旋后肌 supinator muscle
- 30 肱二头肌肌腱 tendon of biceps brachii muscle
- 31 肱骨滑车 trochlea of humerus
- 32 桡骨粗隆 tuberosity of radius
- 33 尺骨 ulna



- | | |
|-----------------------------------|--|
| 1 肘肌 anconeus muscle | 11 屈肌起点
common flexor origin |
| 2 贵要静脉 basilic vein | 12 桡侧腕短伸肌 extensor
carpi radialis brevis muscle |
| 3 肱二头肌 biceps brachii muscle | 13 桡侧腕长伸肌 extensor
carpi radialis longus muscle |
| 4 肱二头肌腱膜
bicipital aponeurosis | 14 桡侧腕屈肌
flexor carpi radialis muscle |
| 5 肱动脉 brachial artery | 15 尺侧腕屈肌
flexor carpi ulnaris muscle |
| 6 肱肌 brachialis muscle | 16 指深屈肌 flexor digitorum
profundus muscle |
| 7 肱肌肌腱 brachialis tendon | |
| 8 肱桡肌 brachioradialis muscle | |
| 9 头静脉 cephalic vein | |
| 10 伸肌起点
common extensor origin | |

a~e. 肘, 轴位 MRI。

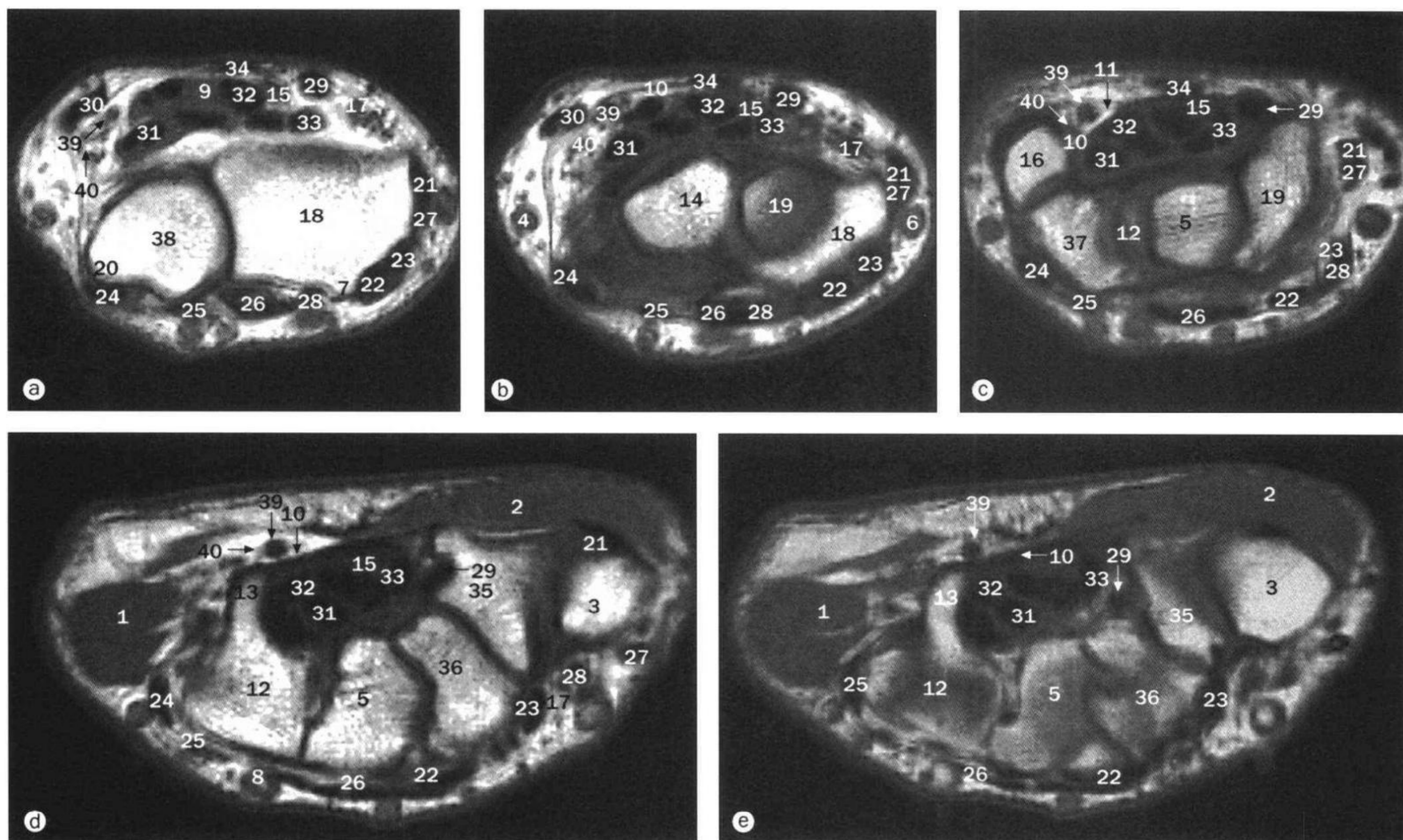
- | | | |
|--|--|--|
| 17 指浅屈肌
flexor digitorum superficialis muscle | 26 内侧髁上嵴
medial supracondylar ridge | 33 桡动脉 radial artery |
| 18 桡骨头 head of radius | 27 正中神经 median nerve | 34 桡神经 radial nerve |
| 19 肱骨 humerus | 28 肱骨鹰嘴窝
olecranon fossa of humerus | 35 桡骨 radius |
| 20 外上髁 lateral epicondyle | 29 尺骨鹰嘴
olecranon process of ulna | 36 旋后肌 supinator muscle |
| 21 三头肌外侧头 lateral head of triceps muscle | 30 掌长肌 palmaris longus muscle | 37 肱二头肌肌腱
tendon of biceps brachii muscle |
| 22 外上髁上嵴 lateral supracondylar ridge | 31 肱深动脉 profunda brachii artery | 38 尺骨 ulna |
| 23 三头肌长头 long head of triceps muscle | 32 旋前圆肌 pronator teres muscle | 39 尺神经 ulnar nerve |
| 24 内上髁 medial epicondyle | | |
| 25 三头肌内侧头 medial head of triceps muscle | | |



a~d. 前臂，轴位 MRI。

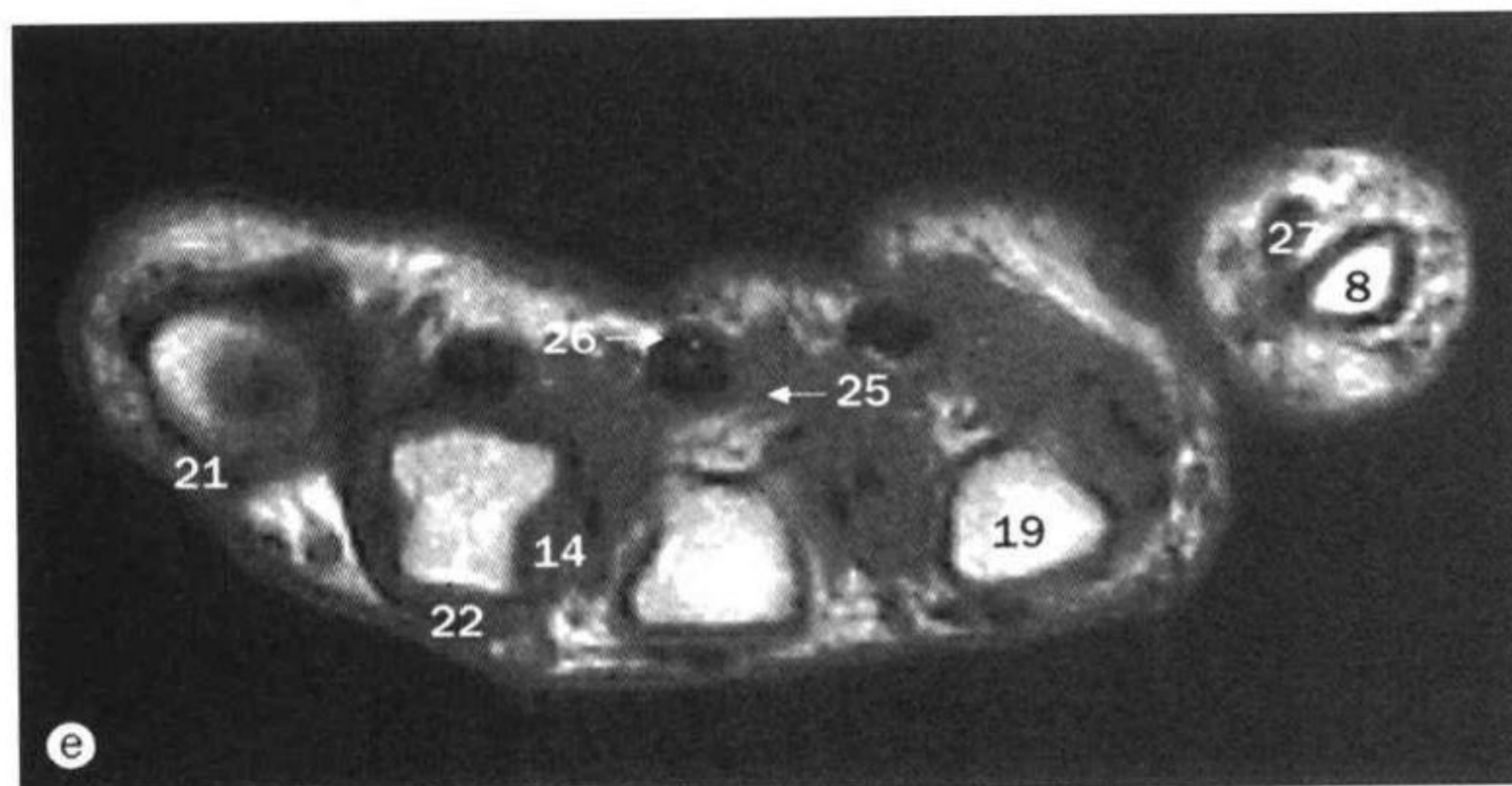
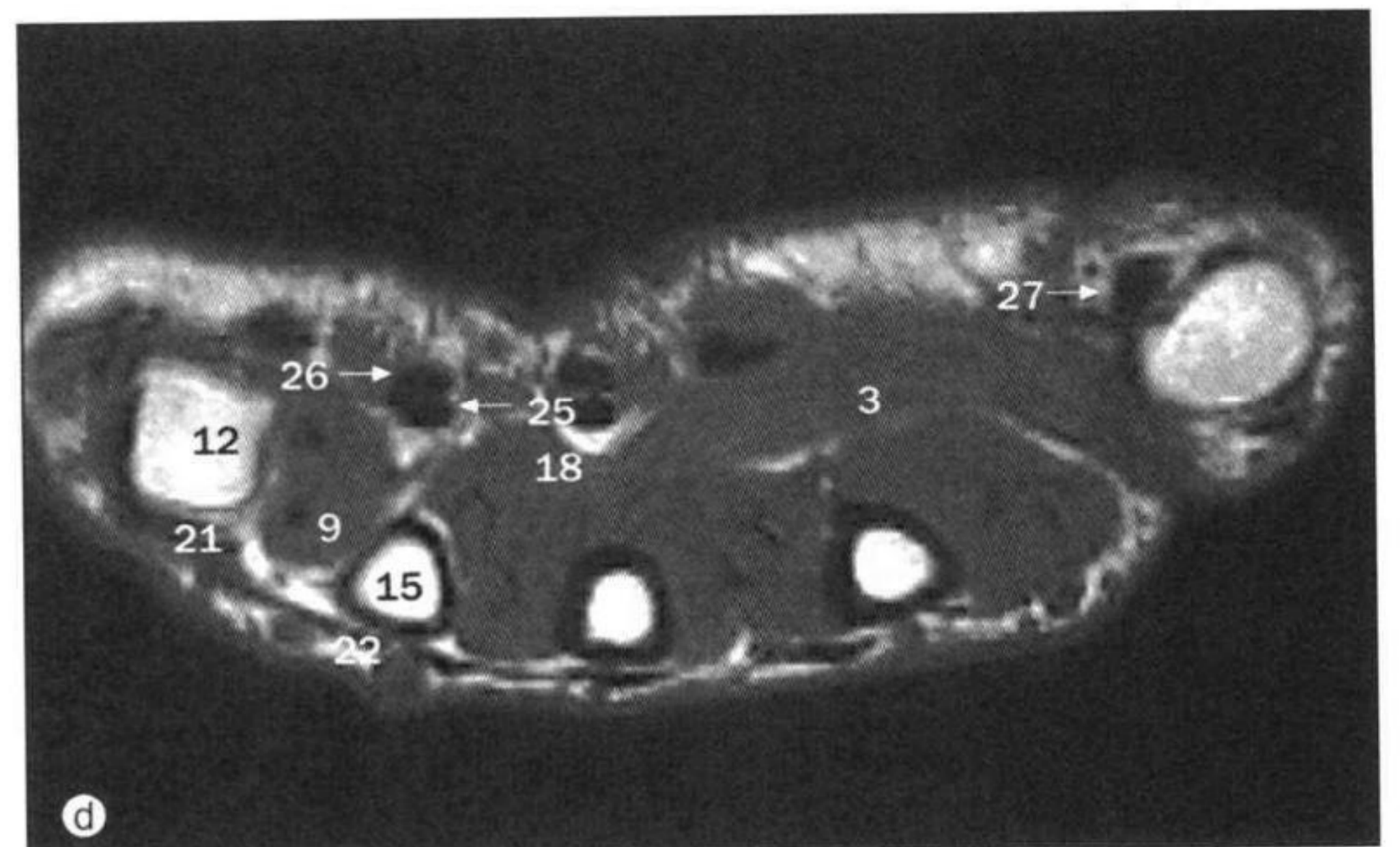
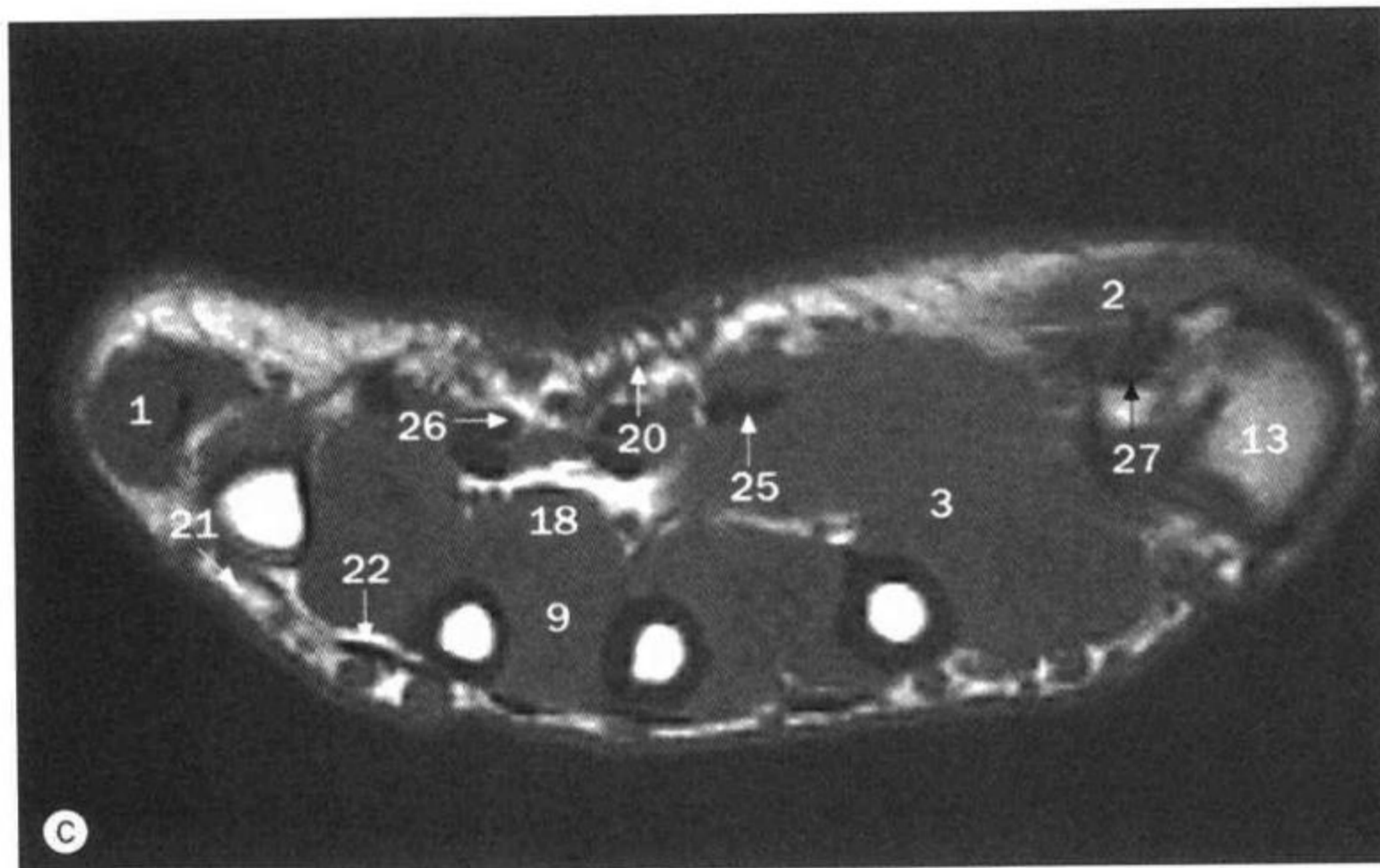
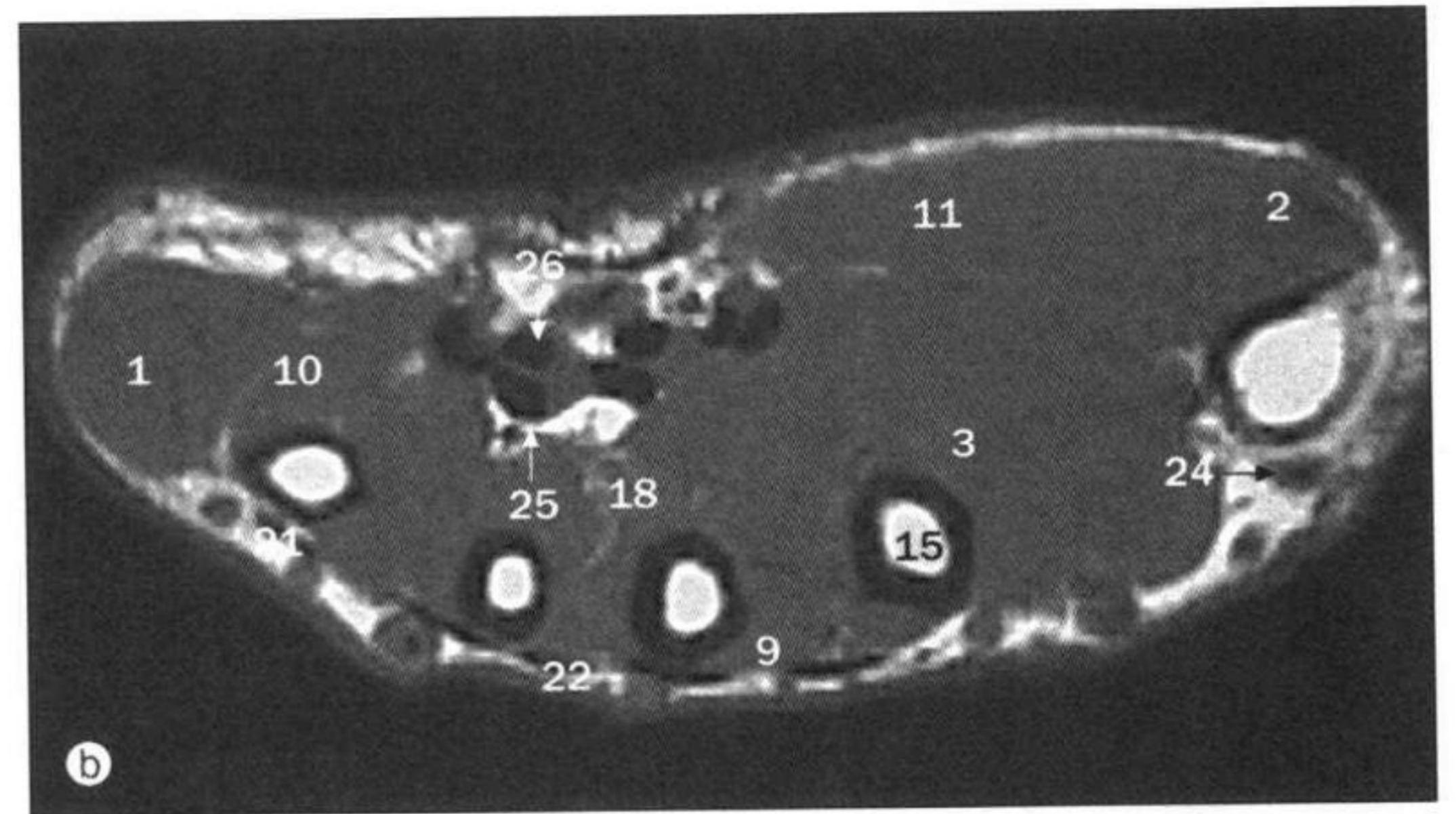
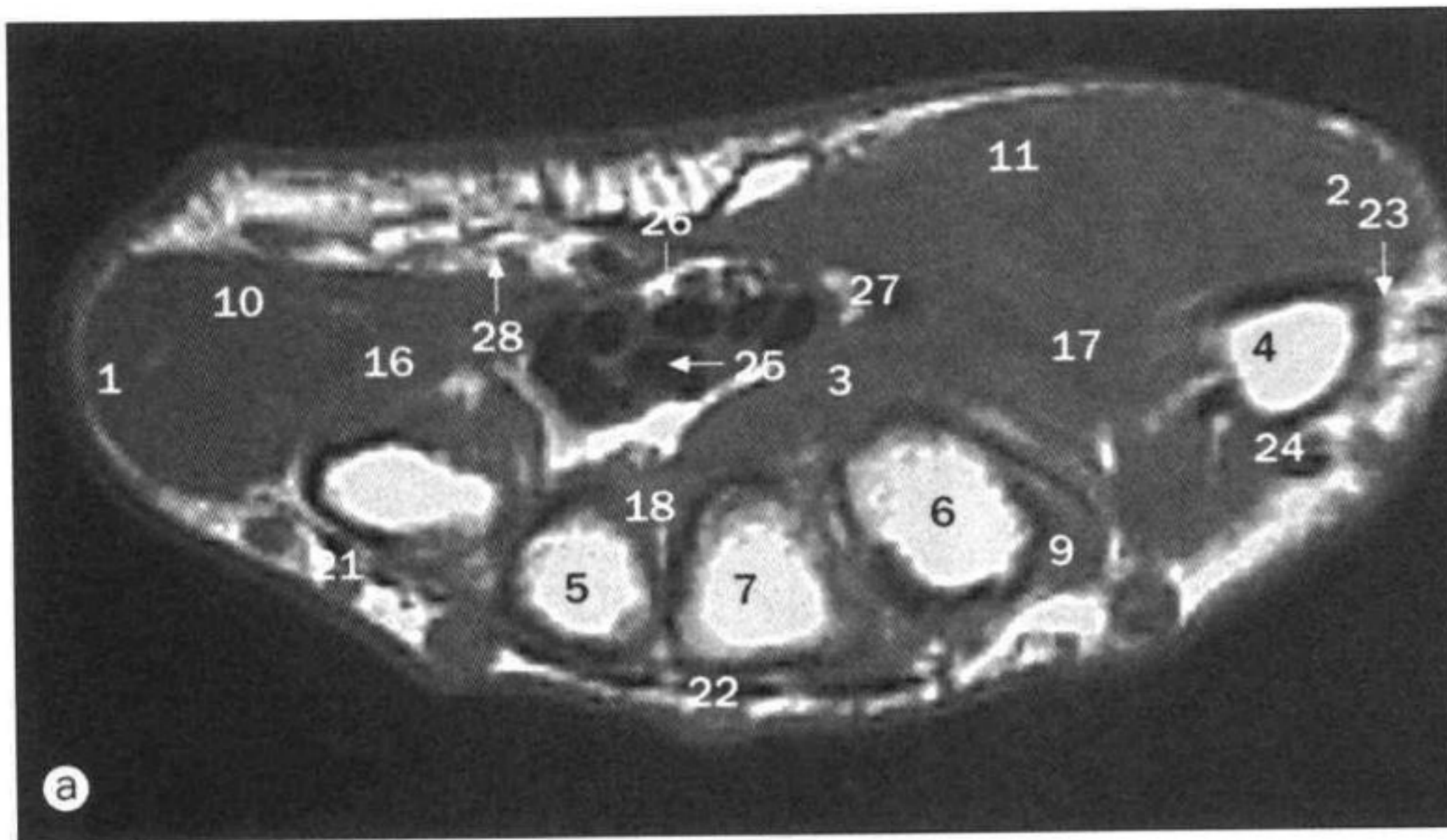
- 1 拇长展肌 abductor pollicis longus muscle
- 2 肘肌 anconeus muscle
- 3 骨间前动脉 anterior interosseous artery
- 4 贵要静脉 basilic vein
- 5 肱桡肌 brachioradialis muscle
- 6 头静脉 cephalic vein
- 7 桡侧腕短伸肌 extensor carpi radialis brevis muscle
- 8 桡侧腕长伸肌 extensor carpi radialis longus muscle
- 9 桡侧腕长伸肌肌腱 extensor carpi radialis longus tendon
- 10 尺侧腕伸肌 extensor carpi ulnaris muscle
- 11 指伸肌 extensor digitorum muscle
- 12 拇长伸肌 extensor pollicis longus muscle
- 13 桡侧腕屈肌 flexor carpi radialis muscle
- 14 尺侧腕屈肌 flexor carpi ulnaris muscle

- 15 指深屈肌 flexor digitorum profundus muscle
- 16 指浅屈肌 flexor digitorum superficialis muscle
- 17 骨间膜 interosseous membrane
- 18 正中神经 median nerve
- 19 掌长肌 palmaris longus muscle
- 20 旋前圆肌 pronator teres muscle
- 21 桡动脉 radial artery
- 22 桡神经 radial nerve
- 23 桡骨 radius
- 24 旋后肌 supinator muscle
- 25 尺骨 ulna
- 26 尺动脉 ulnar artery
- 27 尺神经 ulnar nerve



a~e. 腕, 轴位 MRI。

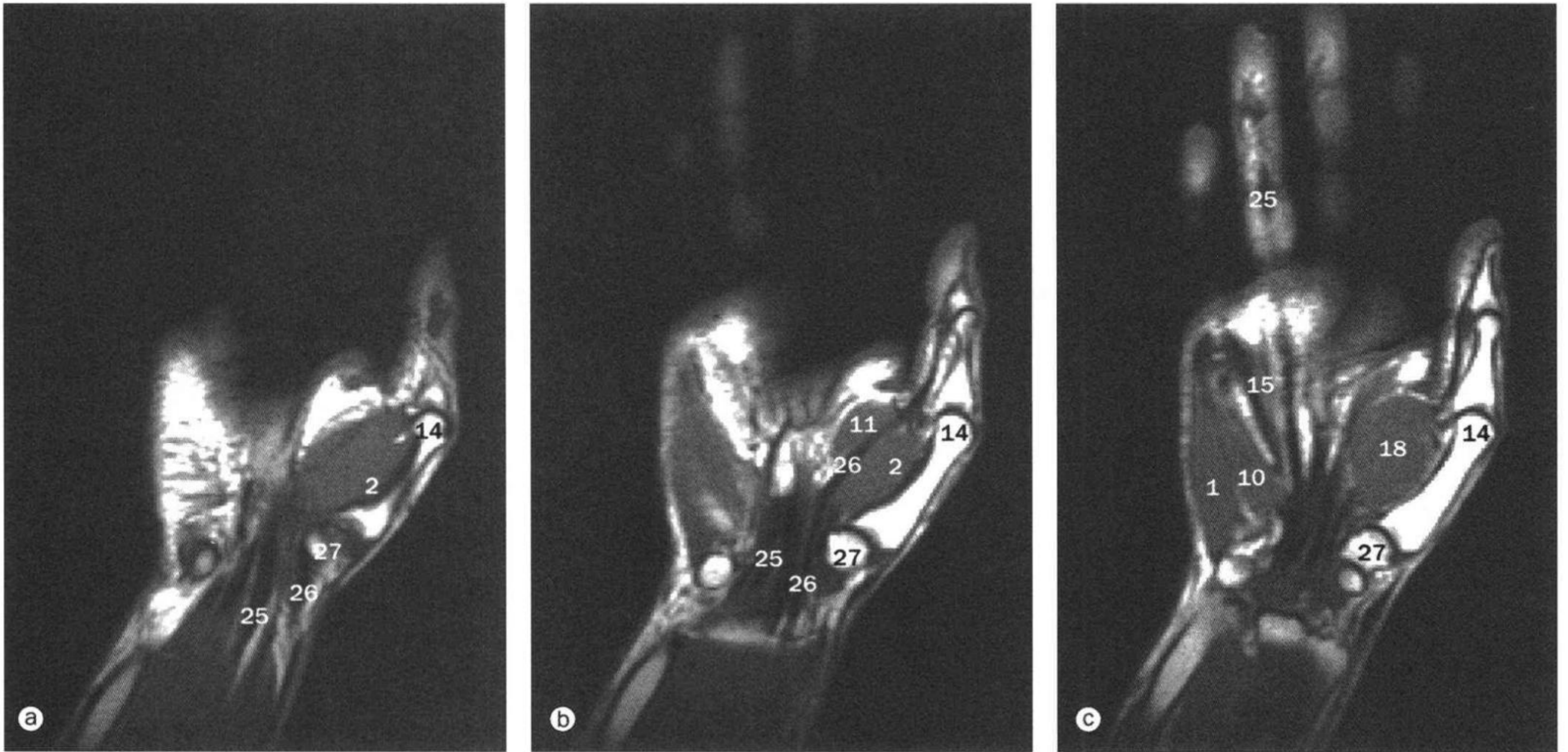
- | | |
|--|--|
| 1 小指展肌 abductor digiti minimi muscle | 22 桡侧腕短伸肌肌腱
tendon of extensor carpi radialis brevis muscle |
| 2 拇短展肌 abductor pollicis brevis muscle | 23 桡侧腕长伸肌肌腱
tendon of extensor carpi radialis longus muscle |
| 3 第1掌骨底 base of first metacarpal | 24 尺侧腕伸肌肌腱 tendon of extensor carpi ulnaris muscle |
| 4 贵要静脉 basilic vein | 25 小指伸肌肌腱 tendon of extensor digiti minimi muscle |
| 5 头状骨 capitate | 26 指伸肌肌腱 tendon of extensor digitorum muscle |
| 6 头静脉 cephalic vein | 27 拇短伸肌肌腱 tendon of extensor pollicis brevis muscle |
| 7 桡骨背侧结节 dorsal tubercle of radius | 28 拇长伸肌肌腱 tendon of extensor pollicis longus muscle |
| 8 背静脉弓 dorsal venous arch | 29 桡侧腕屈肌肌腱 tendon of flexor carpi radialis muscle |
| 9 指浅屈肌 flexor digitorum superficialis muscle | 30 尺侧腕屈肌肌腱 tendon of flexor carpi ulnaris muscle |
| 10 屈肌支持带 flexor retinaculum | 31 指深屈肌肌腱 tendon of flexor digitorum profundus muscle |
| 11 Guyon 管 (尺管) Guyon's canal | 32 指浅屈肌肌腱 tendon of flexor digitorum superficialis muscle |
| 12 钩骨 hamate | 33 拇长屈肌肌腱 tendon of flexor pollicis longus muscle |
| 13 钩骨钩 hook of hamate | 34 掌长肌肌腱 tendon of palmaris longus muscle |
| 14 月骨 lunate | 35 大多角骨 trapezium |
| 15 正中神经 median nerve | 36 小多角骨 trapezoid |
| 16 豌豆骨 pisiform | 37 三角骨 triquetral |
| 17 桡动脉 radial artery | 38 尺骨 ulna |
| 18 桡骨 radius | 39 尺动脉 ulnar artery |
| 19 手舟骨 scaphoid | 40 尺神经 ulnar nerve |
| 20 尺骨茎突 styloid process of ulna | |
| 21 拇长展肌肌腱
tendon of abductor pollicis longus muscle | |



a~e. 手, 轴位 MRI。

- 1 小指展肌 abductor digiti minimi muscle
- 2 拇短展肌 abductor pollicis brevis muscle
- 3 拇收肌 adductor pollicis muscle
- 4 第1掌骨底 base of first metacarpal
- 5 第4掌骨底 base of fourth metacarpal
- 6 第2掌骨底 base of second metacarpal
- 7 第3掌骨底 base of third metacarpal
- 8 拇指远节指骨 distal phalanx of thumb
- 9 骨间背侧肌 dorsal interossei muscles
- 10 小指屈肌 flexor digiti minimi muscle
- 11 拇短屈肌 flexor pollicis brevis muscle
- 12 第5掌骨头 head of fifth metacarpal
- 13 第1掌骨头 head of first metacarpal
- 14 蚓状肌 lumbrical muscle
- 15 掌骨体 metacarpal shaft
- 16 小指对掌肌 opponens digiti minimi muscle
- 17 拇对掌肌 opponens pollicis muscle
- 18 骨间掌侧肌 palmar interossei muscles

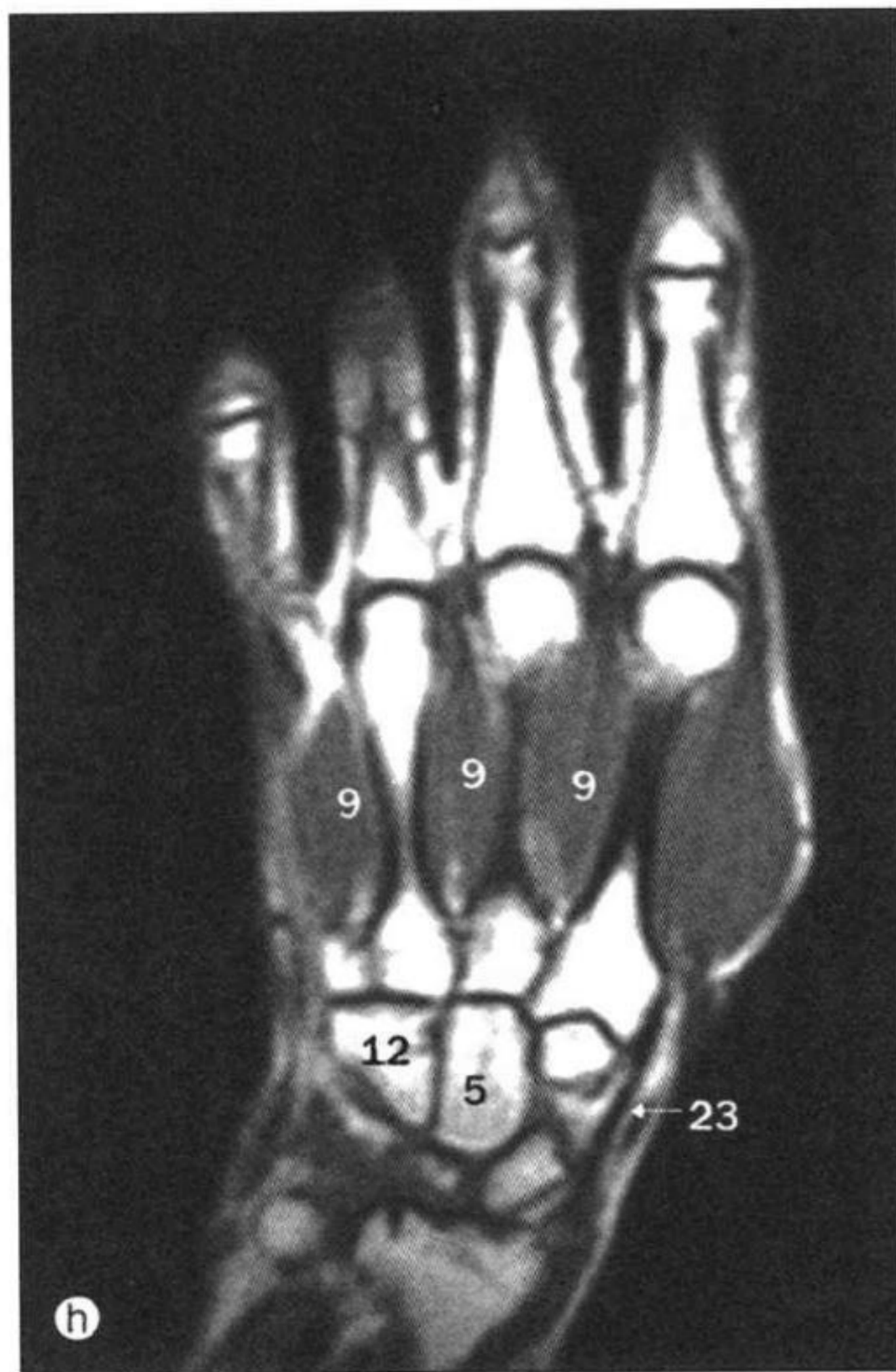
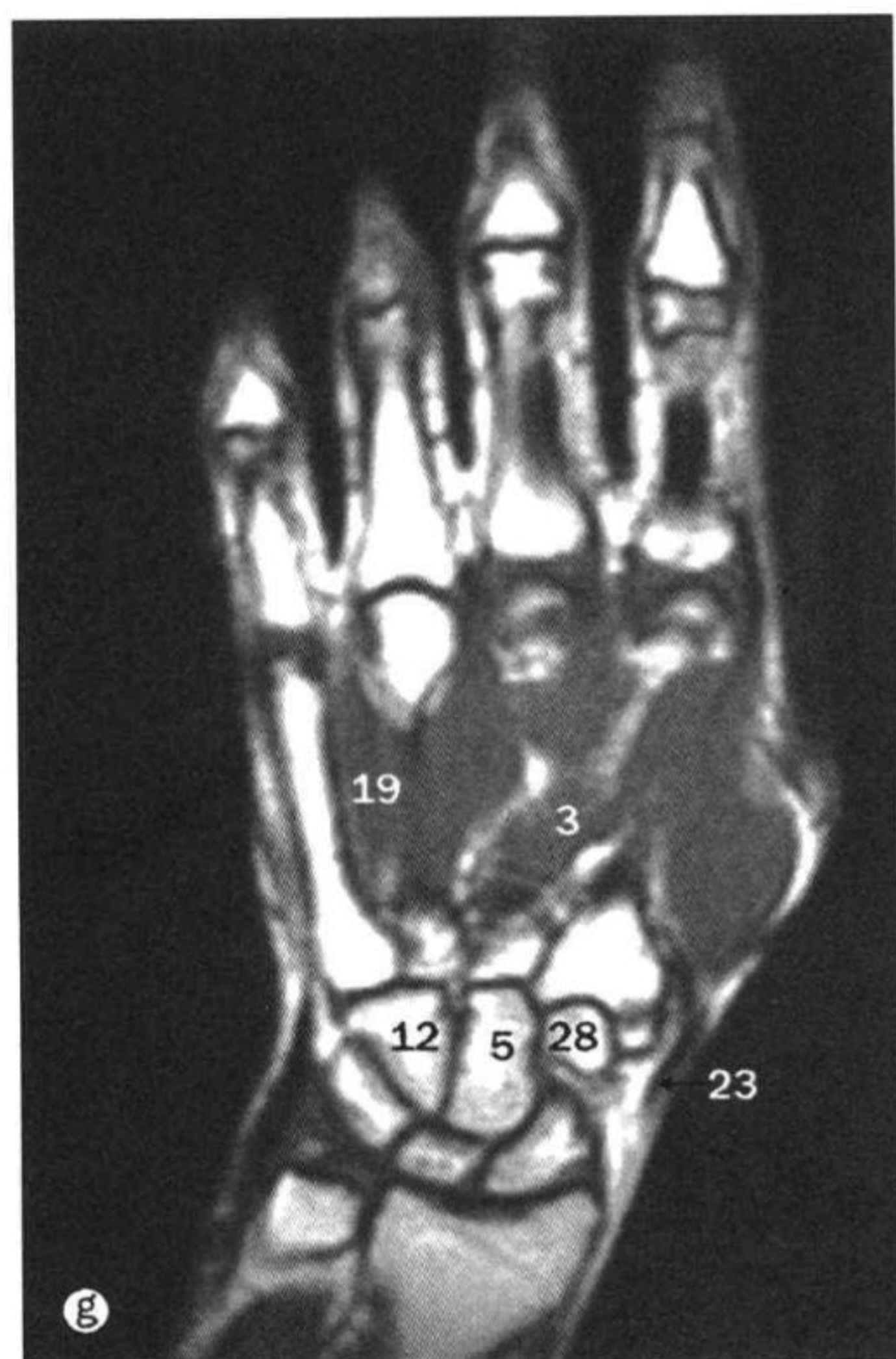
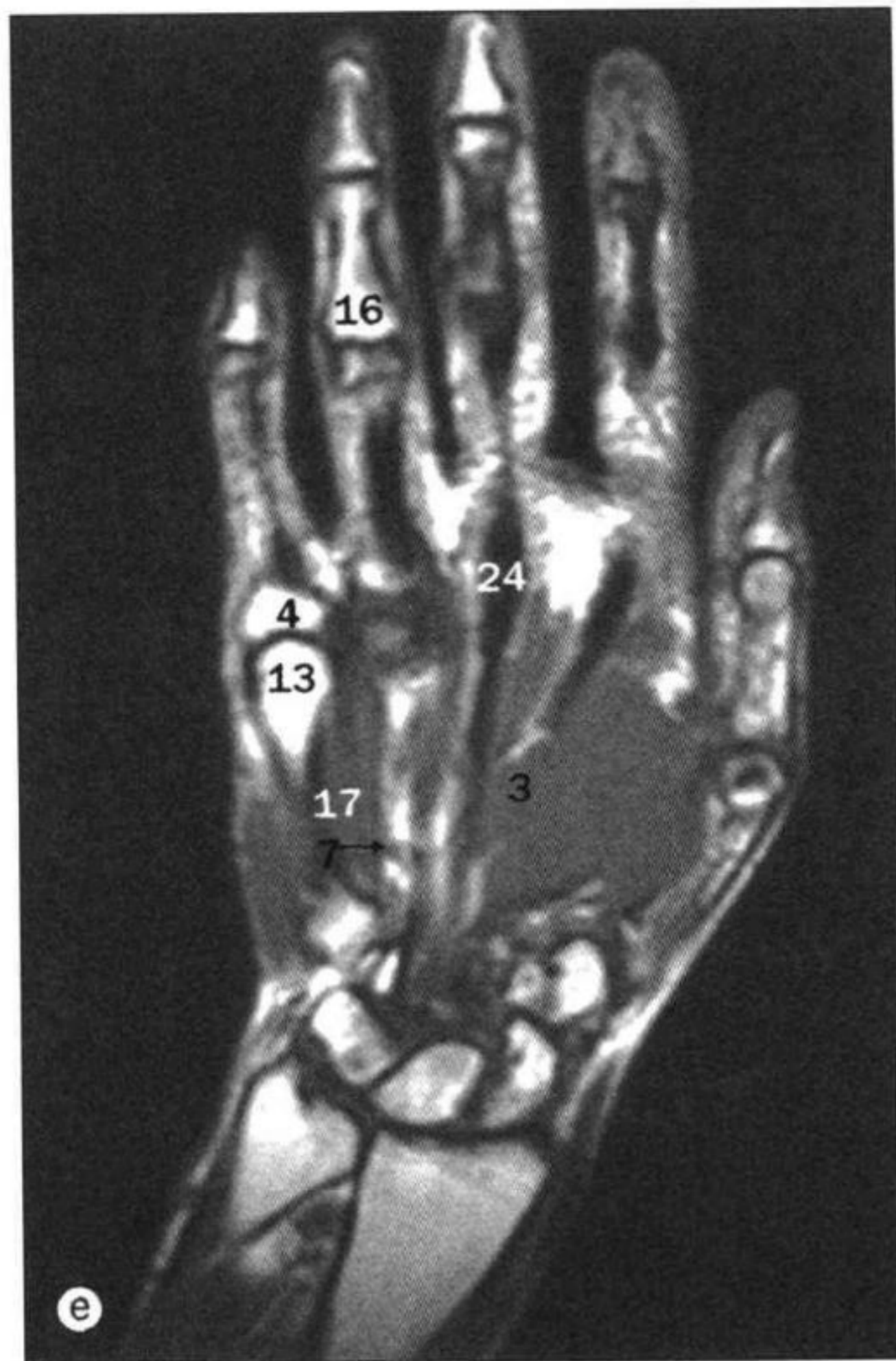
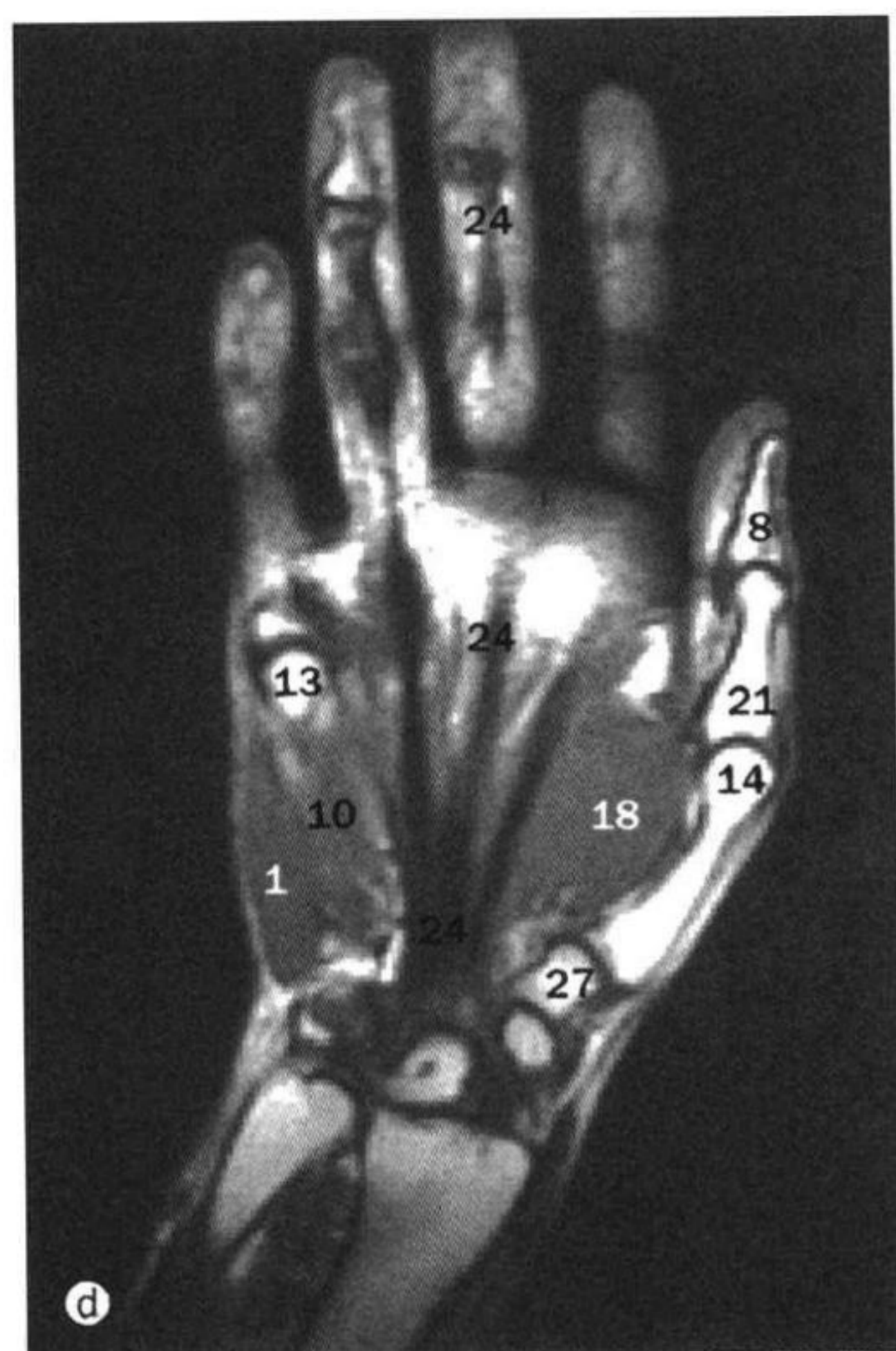
- 19 示指近节指骨 proximal phalanx of index finger
- 20 掌浅弓 superficial palmar arch
- 21 小指伸肌肌腱 tendon of extensor digiti minimi muscle
- 22 指伸肌肌腱 tendon of extensor digitorum muscle
- 23 拇短伸肌肌腱 tendon of extensor pollicis brevis muscle
- 24 拇长伸肌肌腱 tendon of extensor pollicis longus muscle
- 25 指深屈肌肌腱 tendon of flexor digitorum profundus muscle
- 26 指浅屈肌肌腱 tendon of flexor digitorum superficialis muscle
- 27 拇长屈肌肌腱 tendon of flexor pollicis longus muscle
- 28 尺动脉 ulnar artery



a~h. 手，冠状位 MRI。

- 1 小指展肌 abductor digiti minimi muscle
- 2 拇短展肌 abductor pollicis brevis muscle
- 3 拇收肌 adductor pollicis muscle
- 4 近节指骨底 base of proximal phalanx
- 5 头状骨 capitate
- 6 指掌侧总动脉 common palmar digital artery
- 7 掌深弓 deep palmar arch
- 8 拇指远节指骨 distal phalanx of thumb
- 9 骨间背侧肌 dorsal interossei muscles
- 10 小指屈肌 flexor digiti minimi muscle
- 11 拇短屈肌 flexor pollicis brevis muscle
- 12 钩骨 hamate
- 13 第5掌骨头 head of fifth metacarpal
- 14 第1掌骨头 head of first metacarpal
- 15 蚓状肌 lumbrical muscle
- 16 中节指骨 middle phalanx

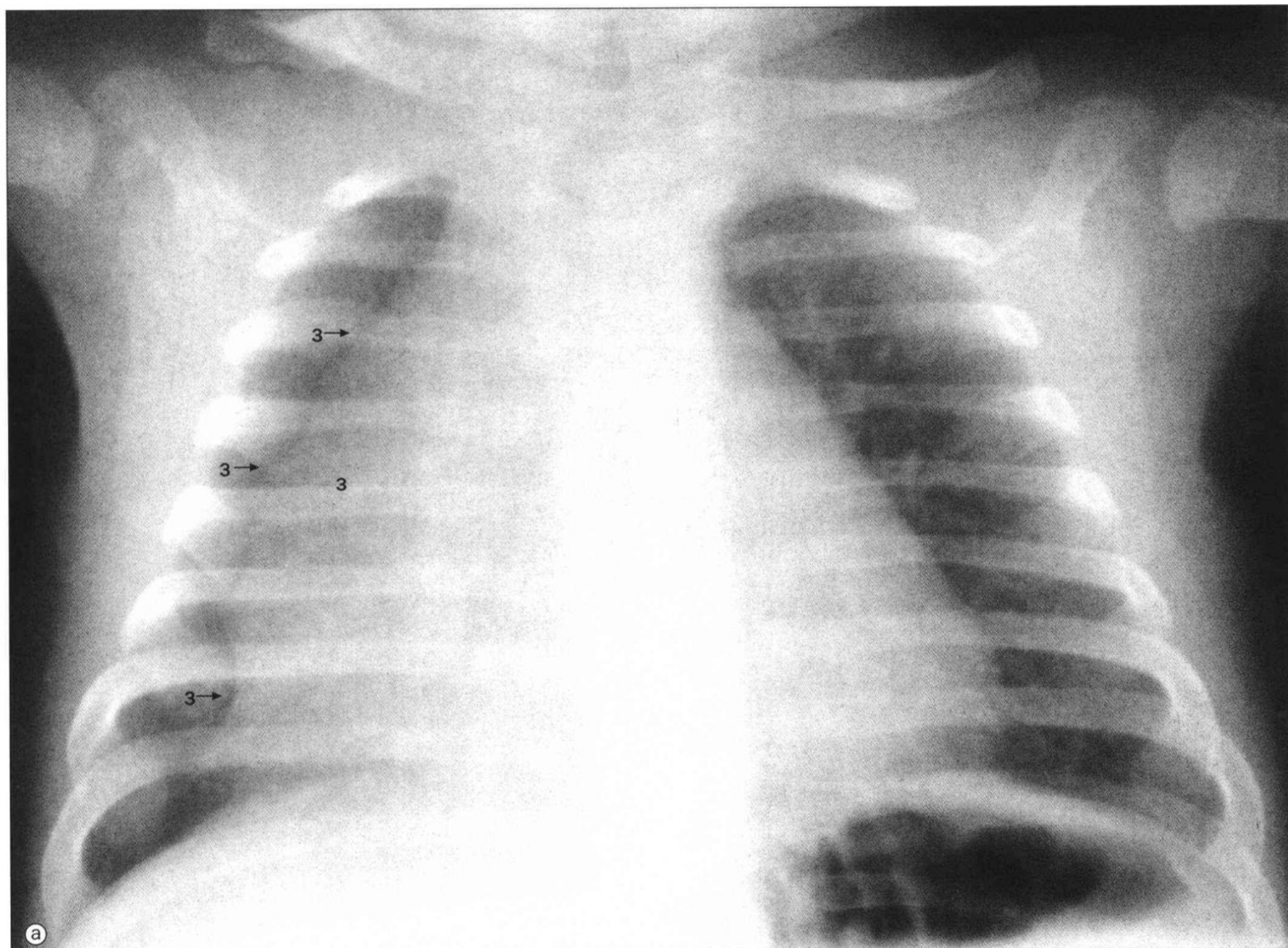
- 17 小指对掌肌 opponens digiti minimi muscle
- 18 拇对掌肌 opponens pollicis muscle
- 19 骨间掌侧肌 palmar interossei muscles
- 20 指掌侧固有动脉 proper palmar digital artery
- 21 拇指近节指骨 proximal phalanx of thumb
- 22 近节指骨体 shaft of proximal phalanx
- 23 拇长伸肌肌腱
tendon of extensor pollicis longus muscle
- 24 指深屈肌肌腱
tendon of flexor digitorum profundus muscle
- 25 指浅屈肌肌腱
tendon of flexor digitorum superficialis muscle
- 26 拇长屈肌肌腱 tendon of flexor pollicis longus muscle
- 27 大多角骨 trapezium
- 28 小多角骨 trapezoid



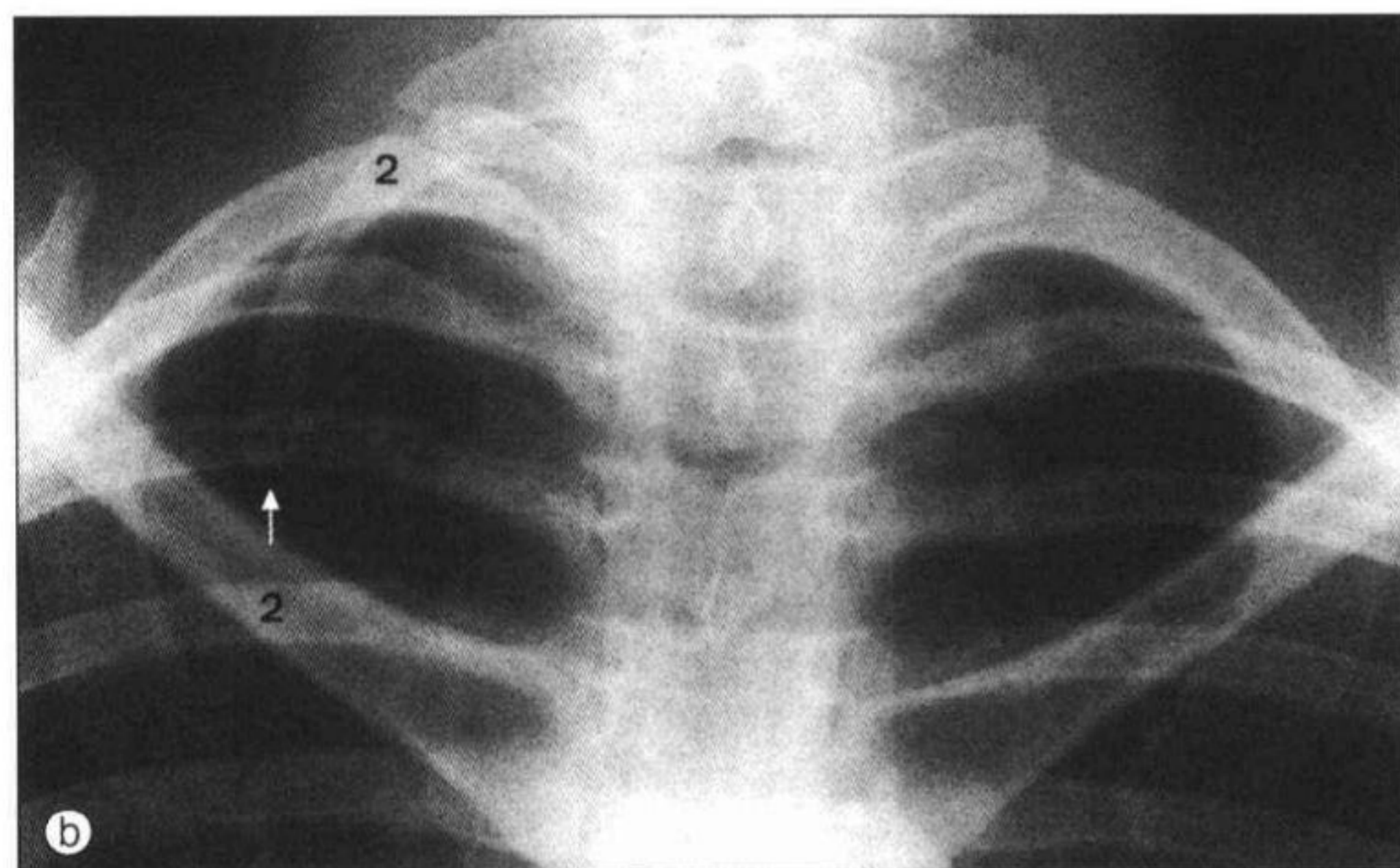
手，冠状位 MRI (续)。

5

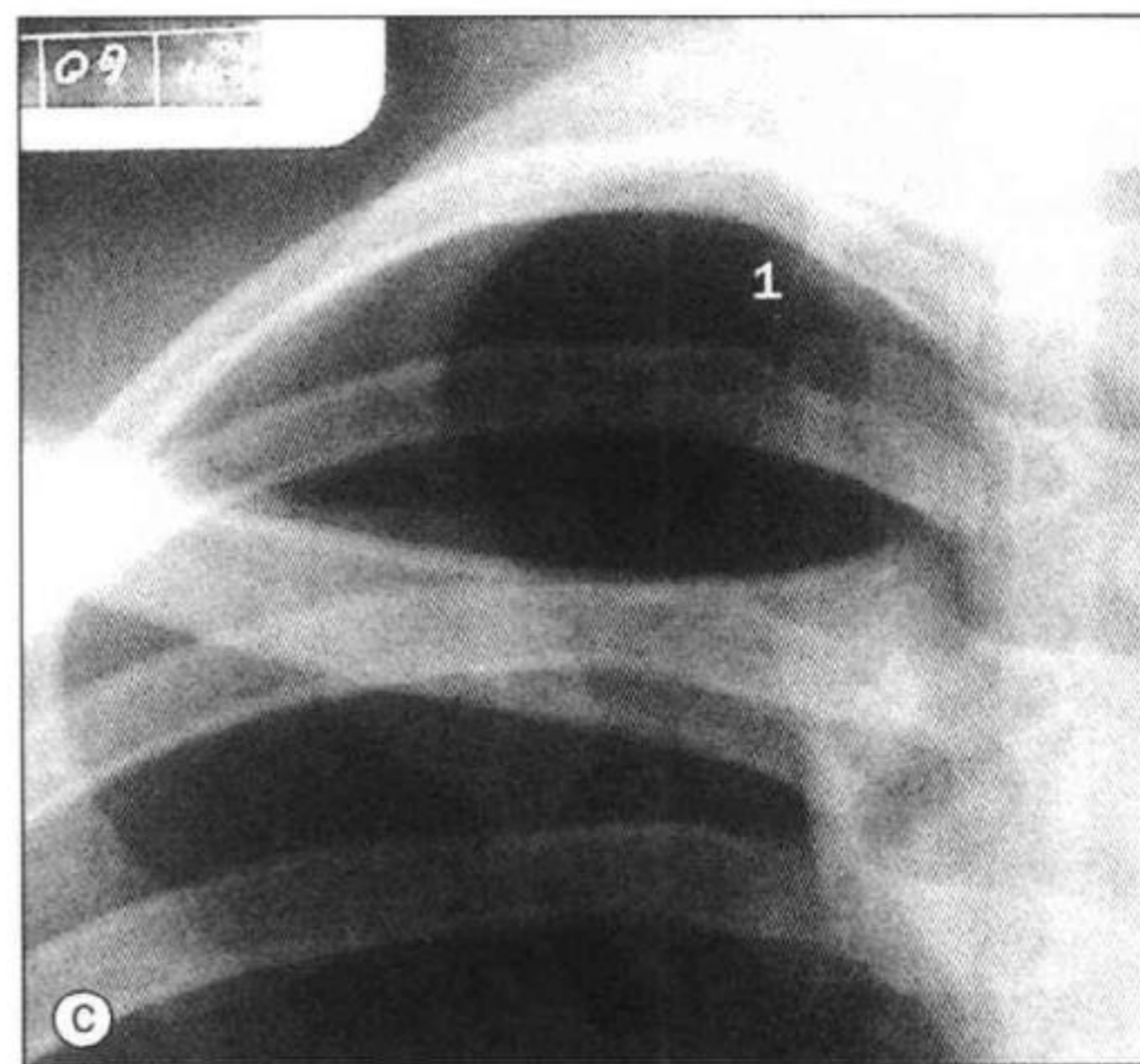
胸部



a. 4个月婴儿胸部，后前位X线。

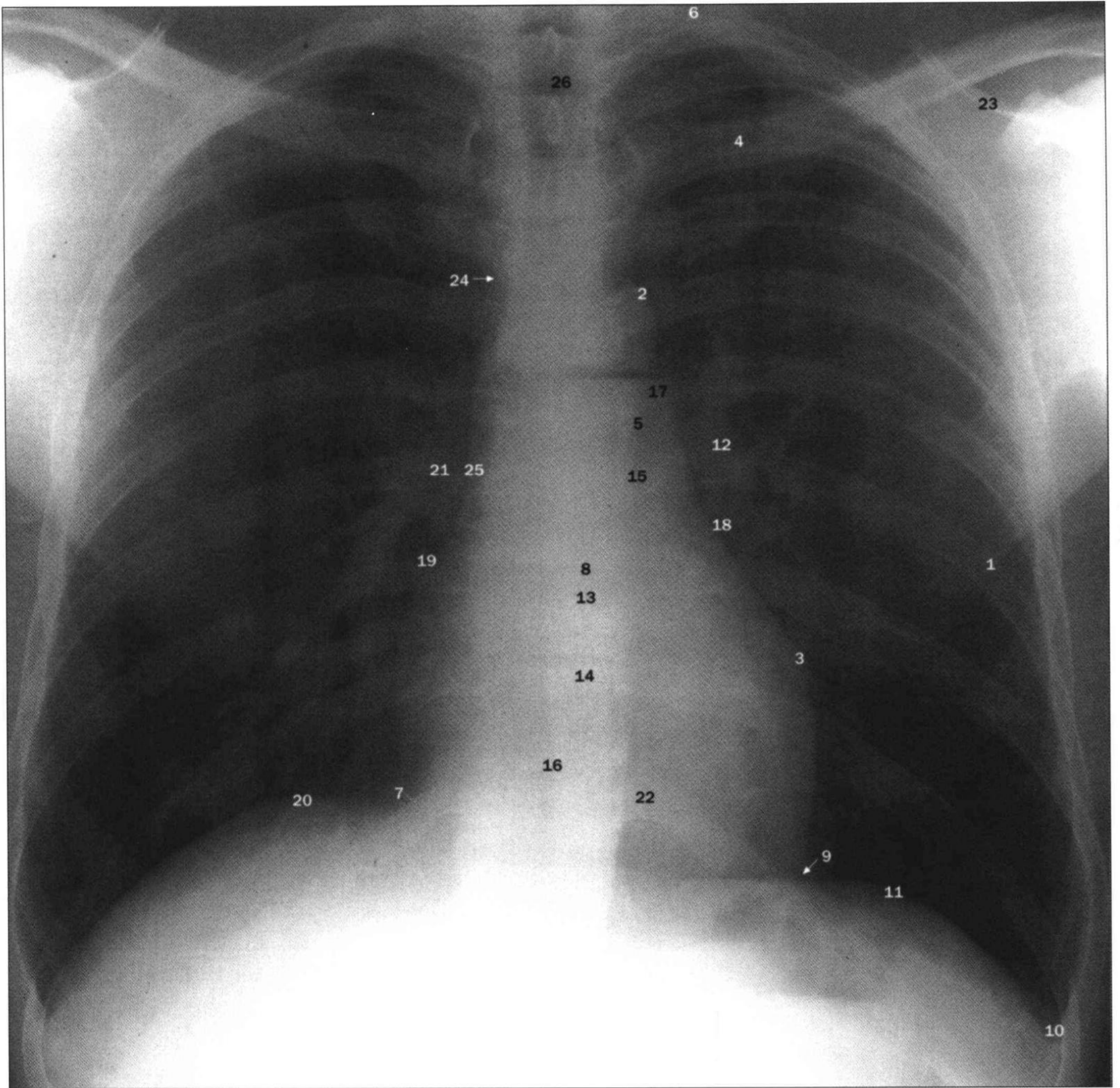


b. 成人颈肋，后前位X线。



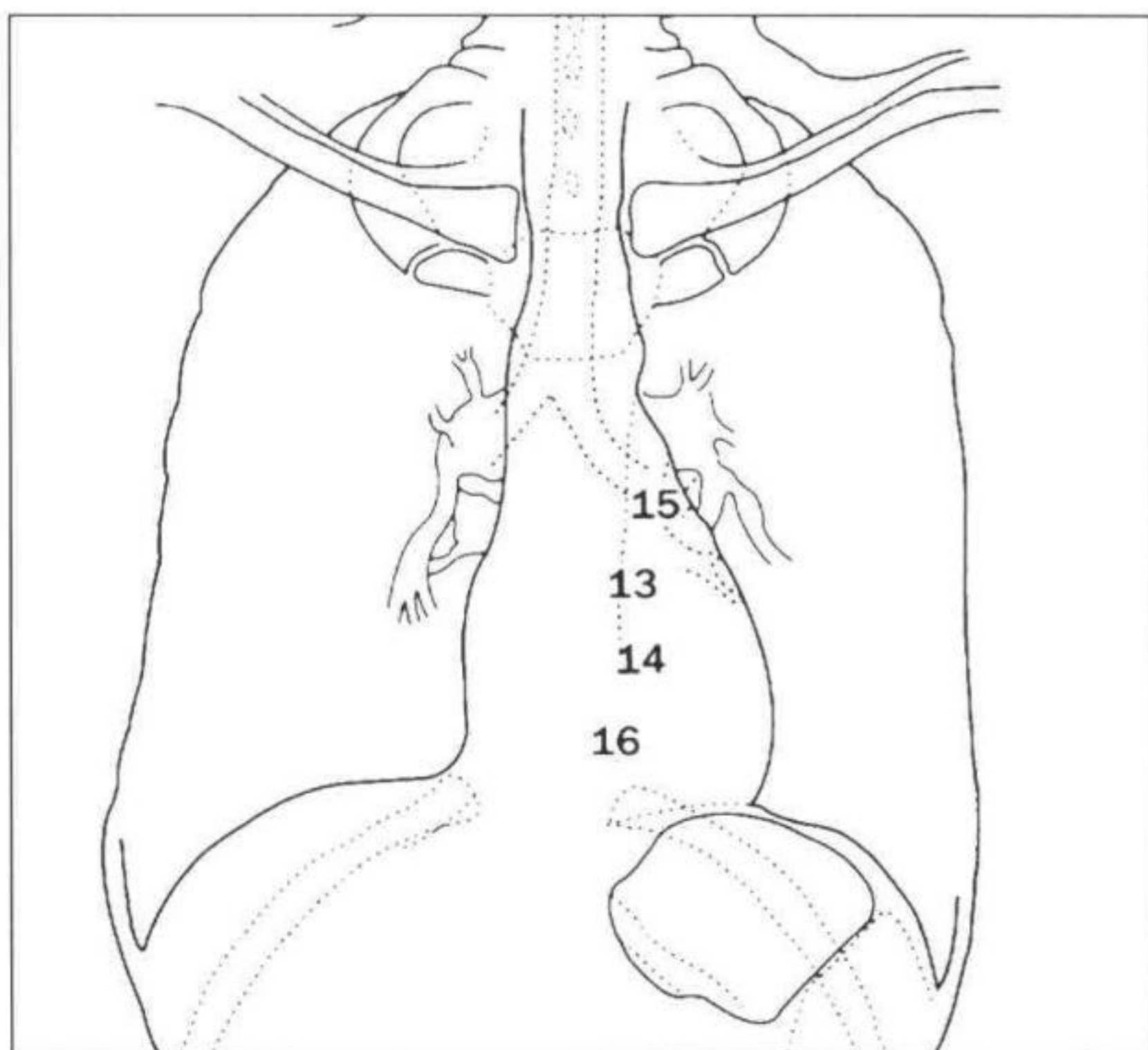
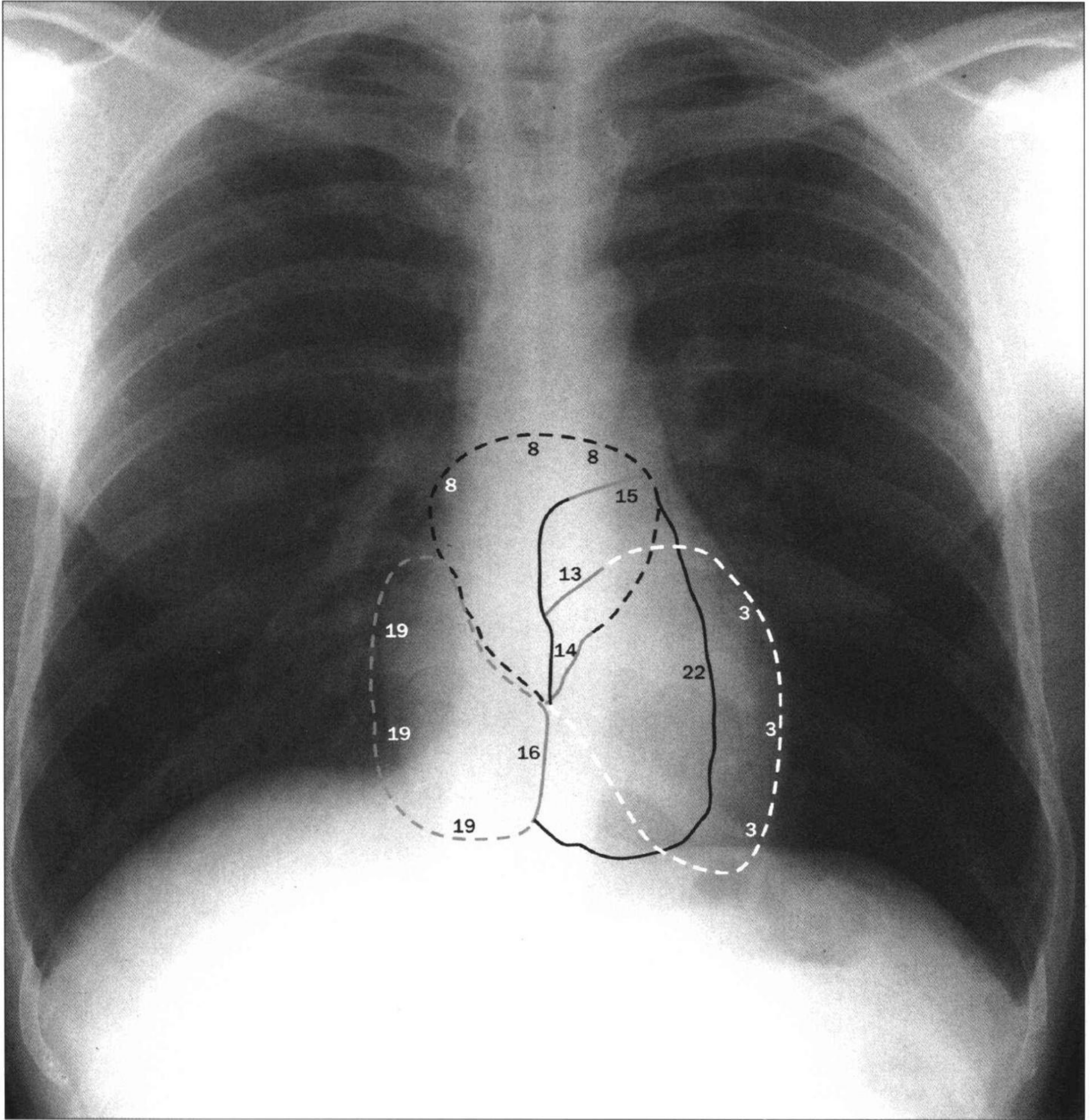
c. 成人奇裂，后前位X线。

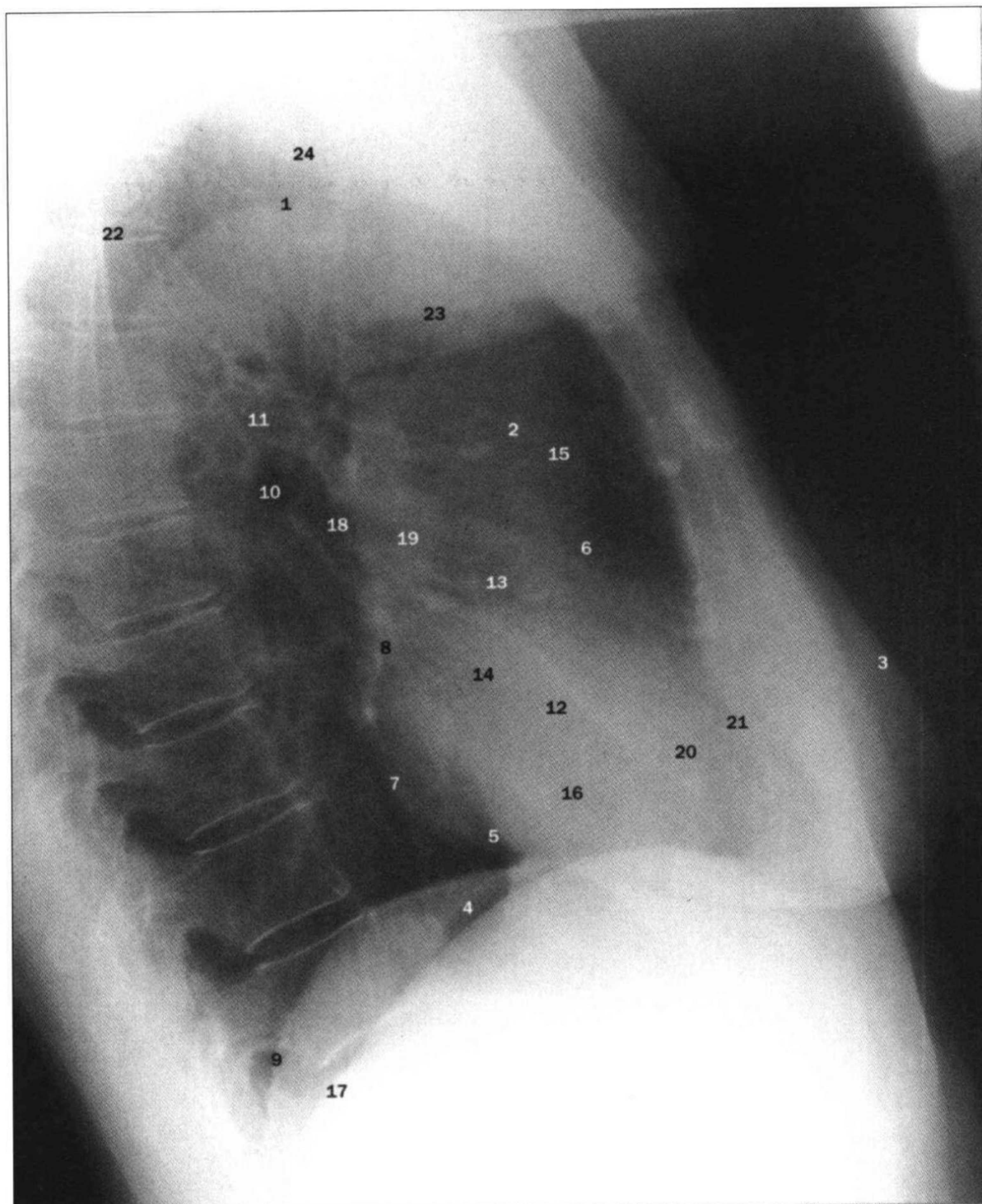
- 1 奇裂
azygos fissure
- 2 颈肋
cervical rib
- 3 胸腺
thymus



成年男性胸部，后前位 X 线。

- | | | |
|--|--|---------------------------------|
| 1 前腋襞 anterior axillary fold | 11 左膈穹隆 left dome of diaphragm | 19 右心房缘 right atrial border |
| 2 主动脉弓 (主动脉结节)
arch of aorta (aortic knuckle or knob) | 12 左肺动脉 left pulmonary artery | 20 右膈穹隆 right dome of diaphragm |
| 3 左心室缘 border of left ventricle | 13 主动脉瓣位置 position of aortic valve | 21 右肺动脉 right pulmonary artery |
| 4 锁骨 clavicle | 14 二尖瓣位置 position of mitral valve | 22 右心室 right ventricle |
| 5 降主动脉 descending aorta | 15 肺动脉瓣位置
position of pulmonary valve | 23 肩胛冈 spine of scapula |
| 6 第 1 肋 first rib | 16 三尖瓣位置
position of tricuspid valve | 24 胸骨 sternum |
| 7 下腔静脉 inferior vena cava | 17 肺动脉干 pulmonary trunk | 25 上腔静脉 superior vena cava |
| 8 左心房 left atrium | 18 左心耳尖区域
region of tip of auricle of left atrium | 26 气管 trachea |
| 9 左心膈角 left cardiophrenic angle | | |
| 10 左肋膈角 left costophrenic angle | | |





成人女性胸部，侧位 X 线。

1 主动脉弓 (主动脉结节)
arch of aorta (aortic knuckle or knob)

2 升主动脉 ascending aorta

3 乳房 breast

4 胃底的气体 gas in fundus of stomach

5 下腔静脉 inferior vena cava

6 右心室漏斗 (下方) 和肺动脉干 (上方)
infundibulum of right ventricle (below)
with pulmonary trunk (above)

7 左心房缘 left atrial border of heart

8 左心房 left atrium

9 左膈穹隆 left dome of diaphragm

10 左主支气管 left main bronchus

11 左肺动脉
left pulmonary artery

12 左斜裂 left oblique fissure

13 主动脉瓣位置
position of aortic valve

14 二尖瓣位置
position of mitral valve

15 肺动脉瓣位置
position of pulmonary valve

16 三尖瓣位置
position of tricuspid valve

17 右膈穹隆
right dome of diaphragm

18 右主支气管
right main bronchus

19 右肺动脉
right pulmonary artery

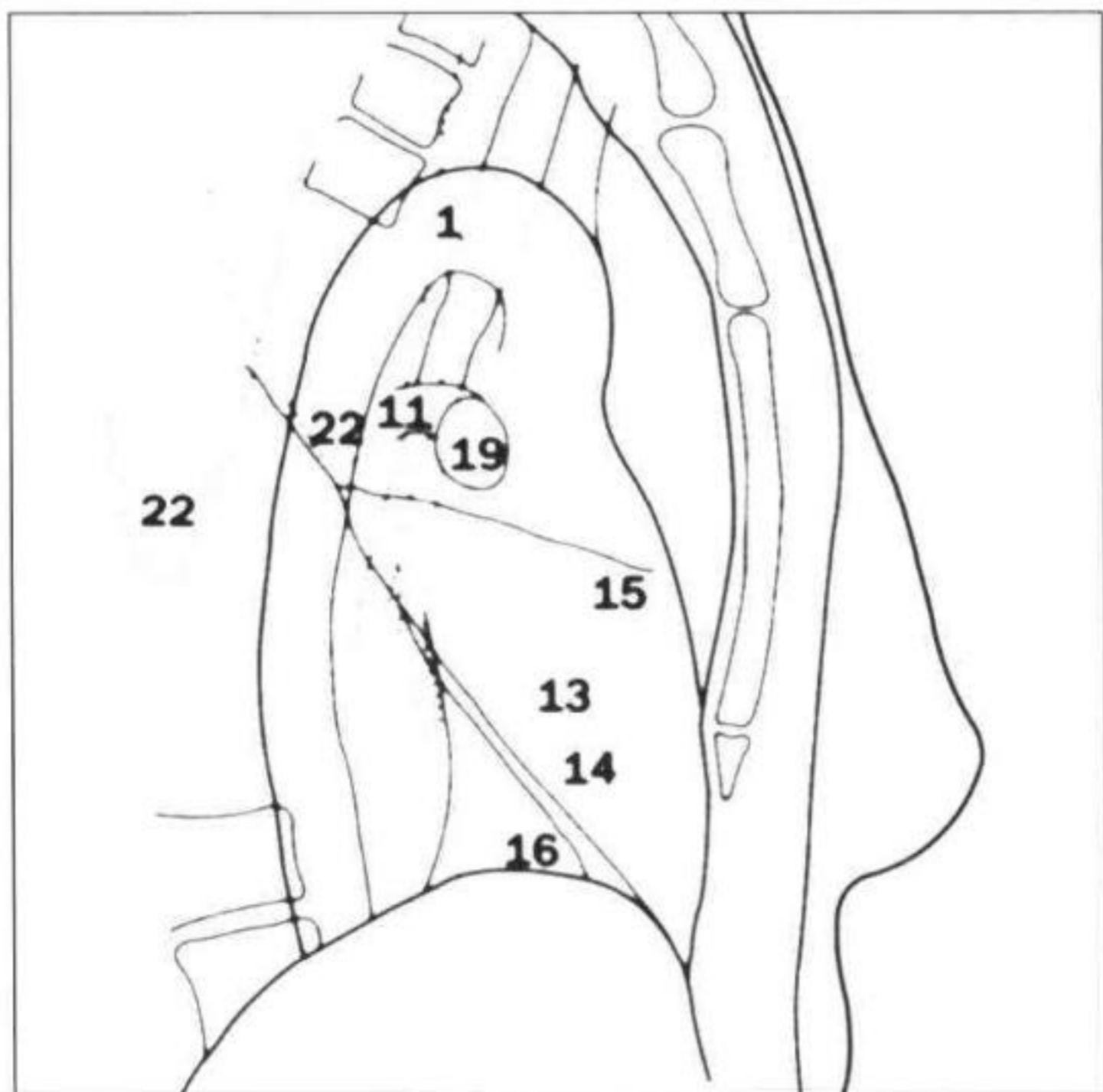
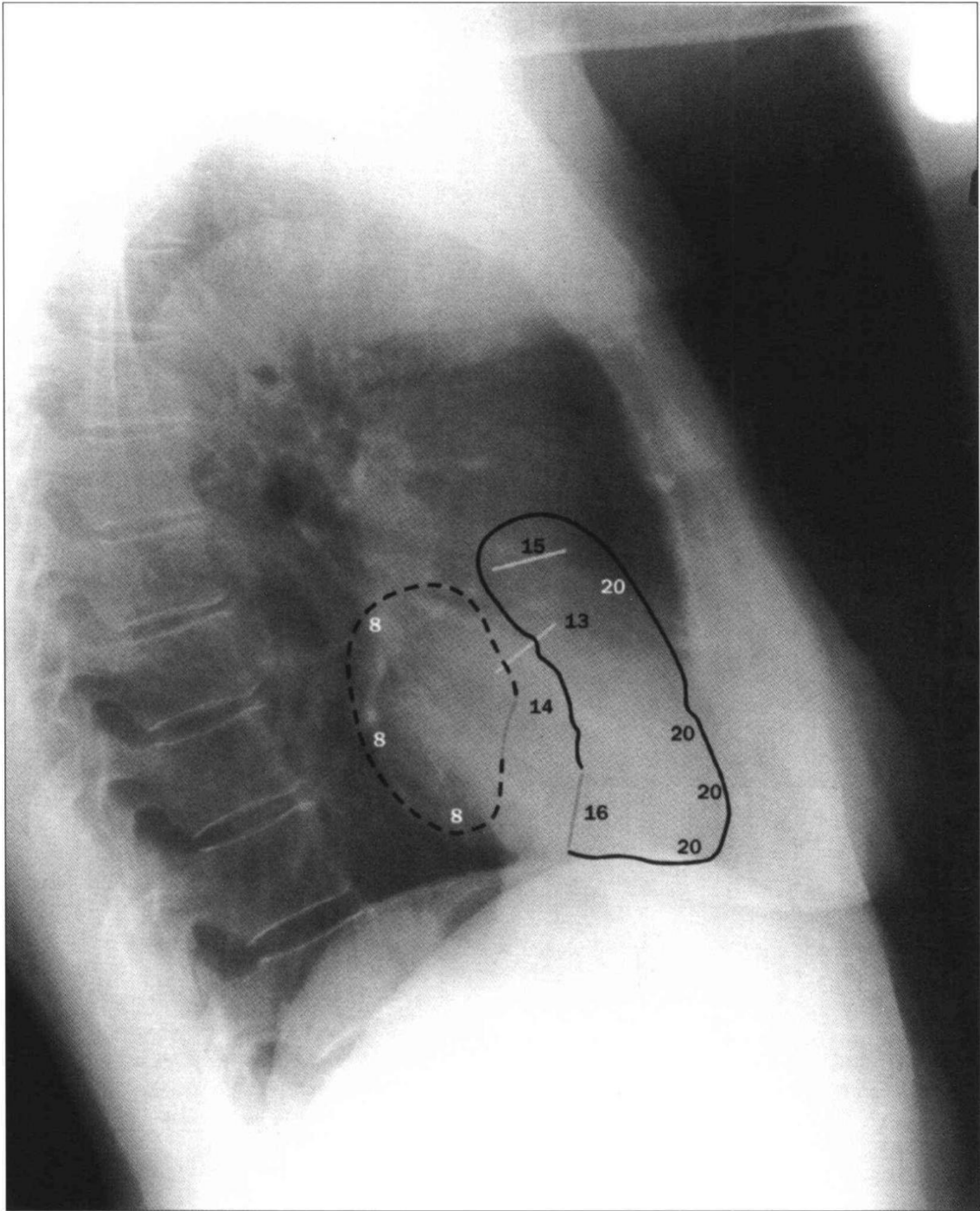
20 右心室 right ventricle

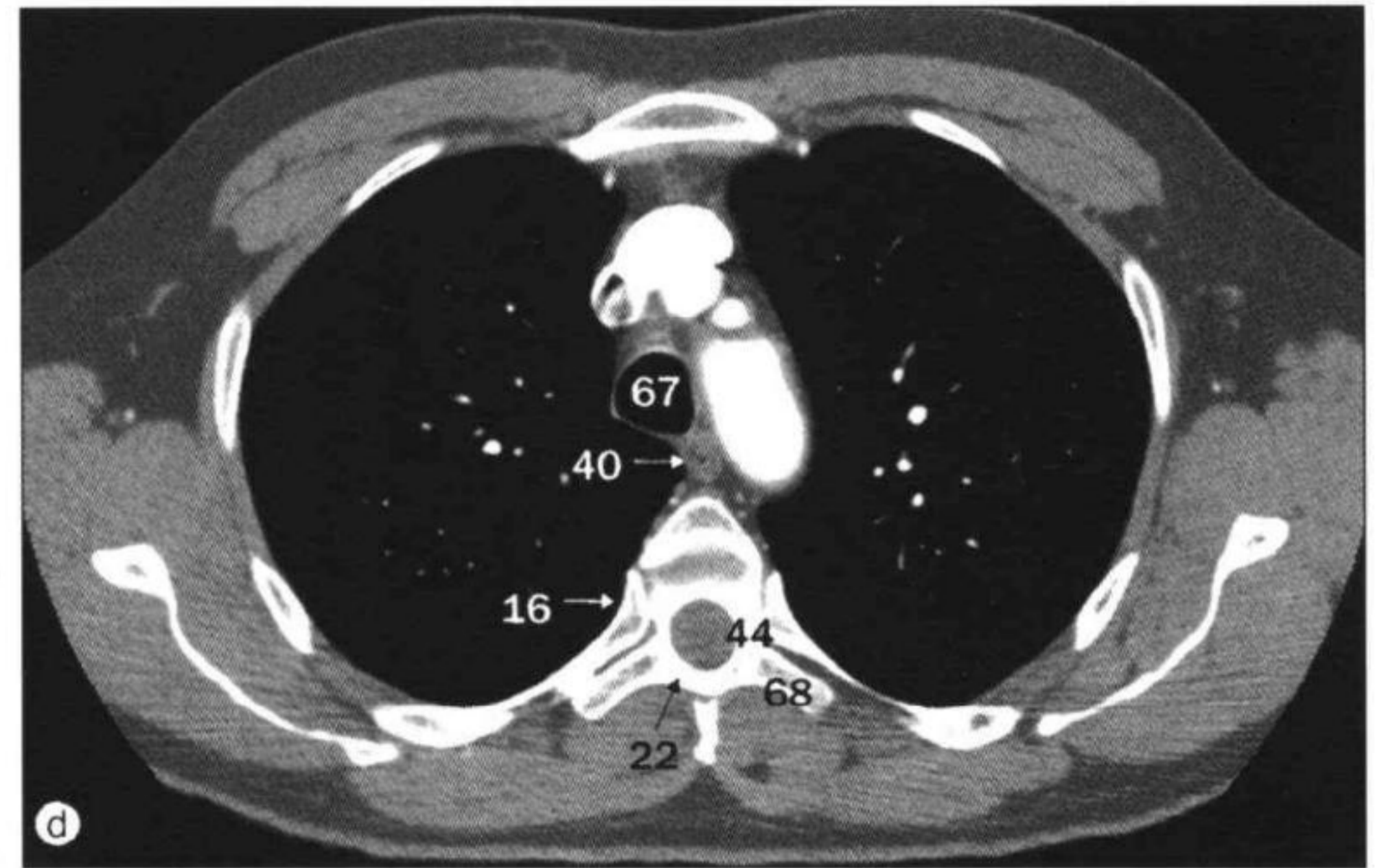
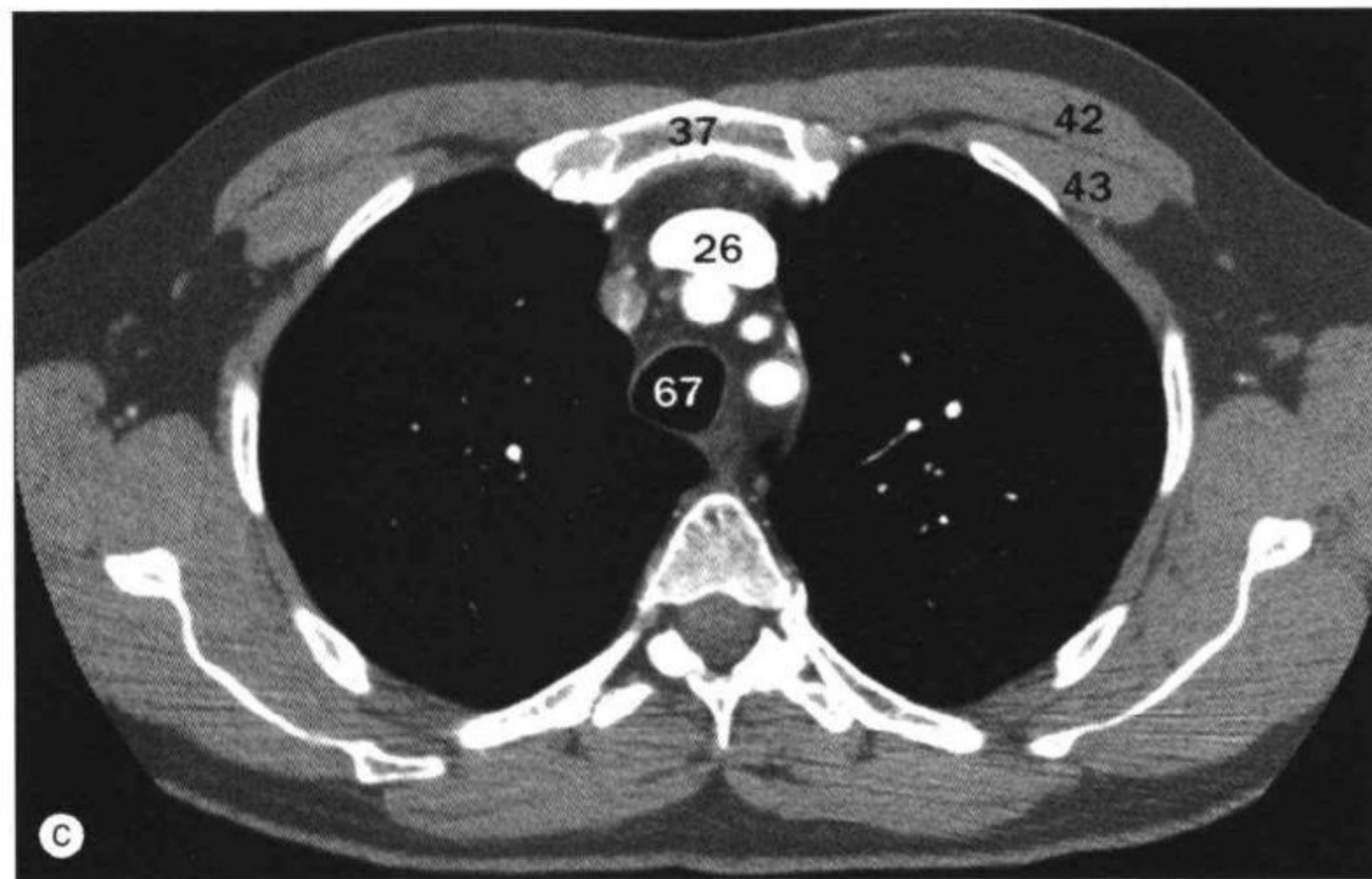
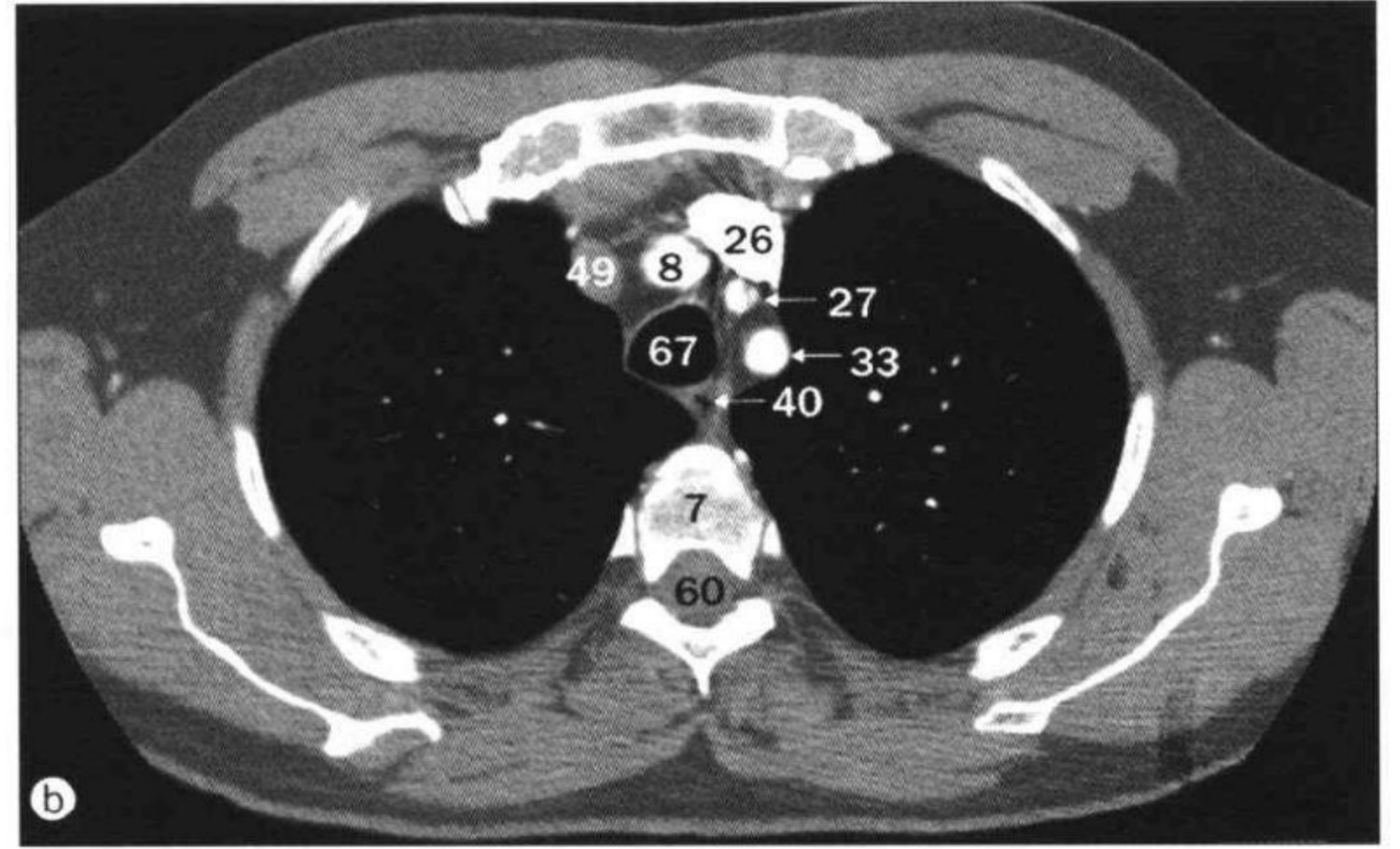
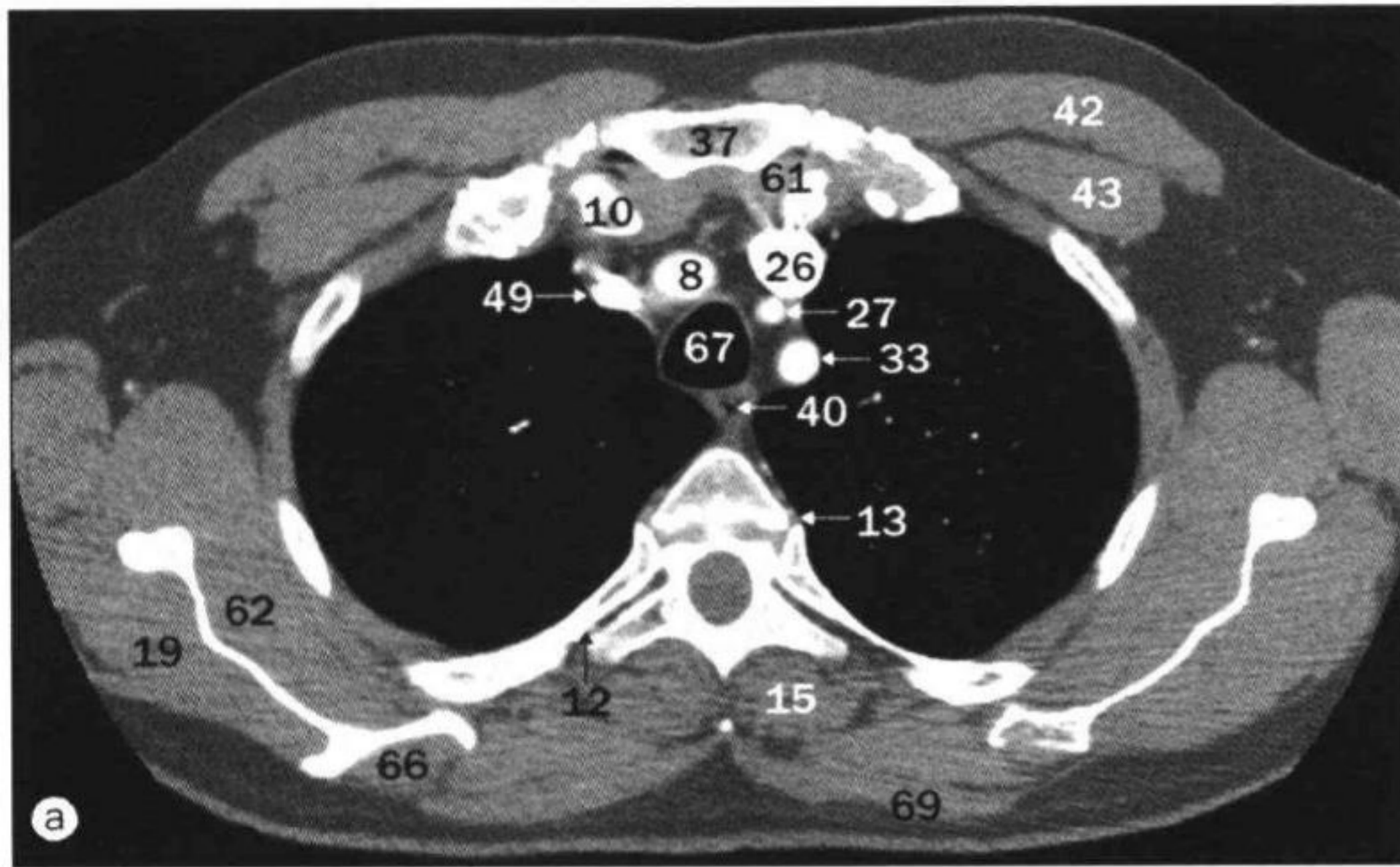
21 右心室缘
right ventricular border of heart

22 肩胛骨 scapula

23 上臂软组织
soft tissues of upper arm

24 气管 trachea

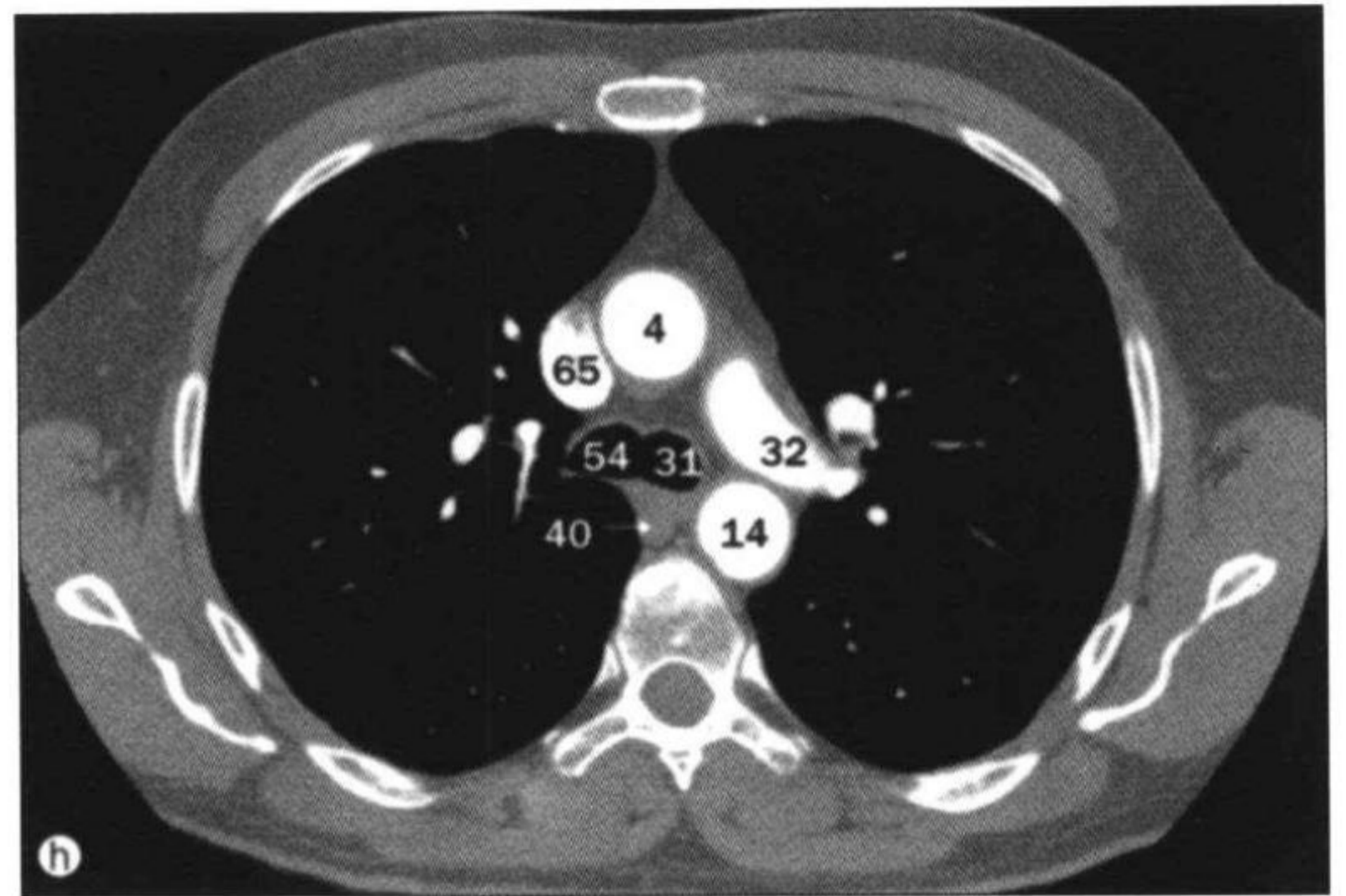
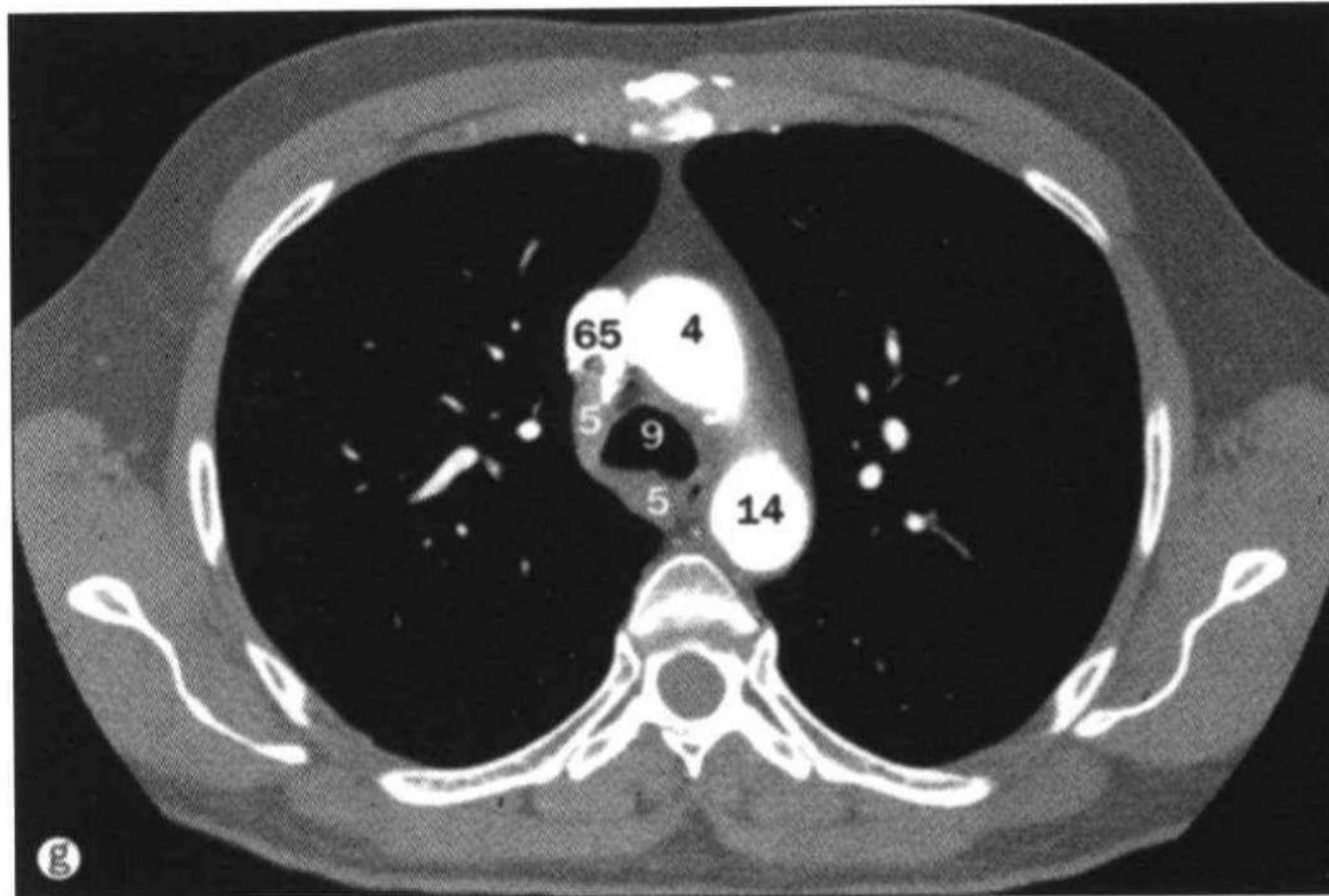
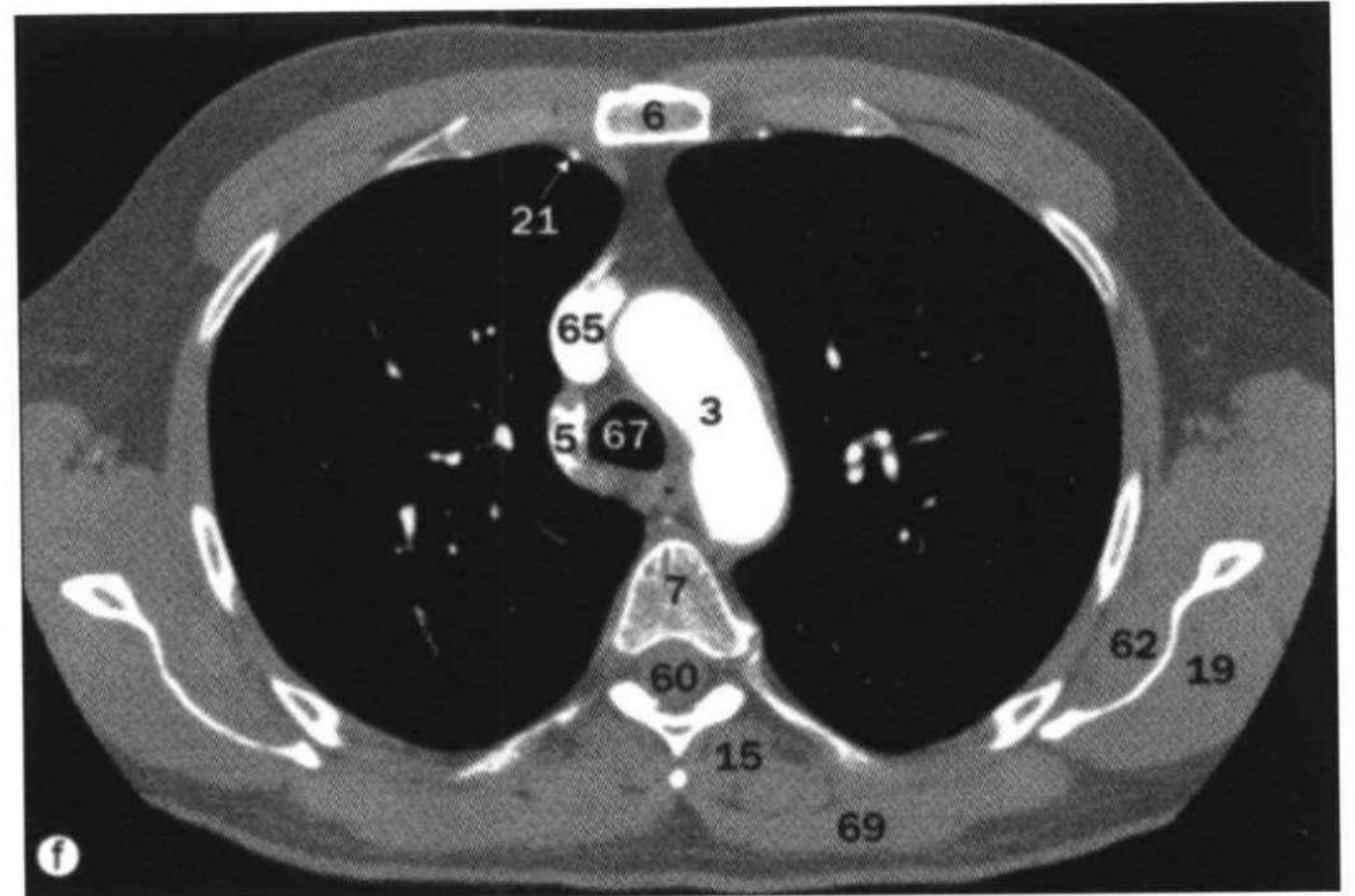
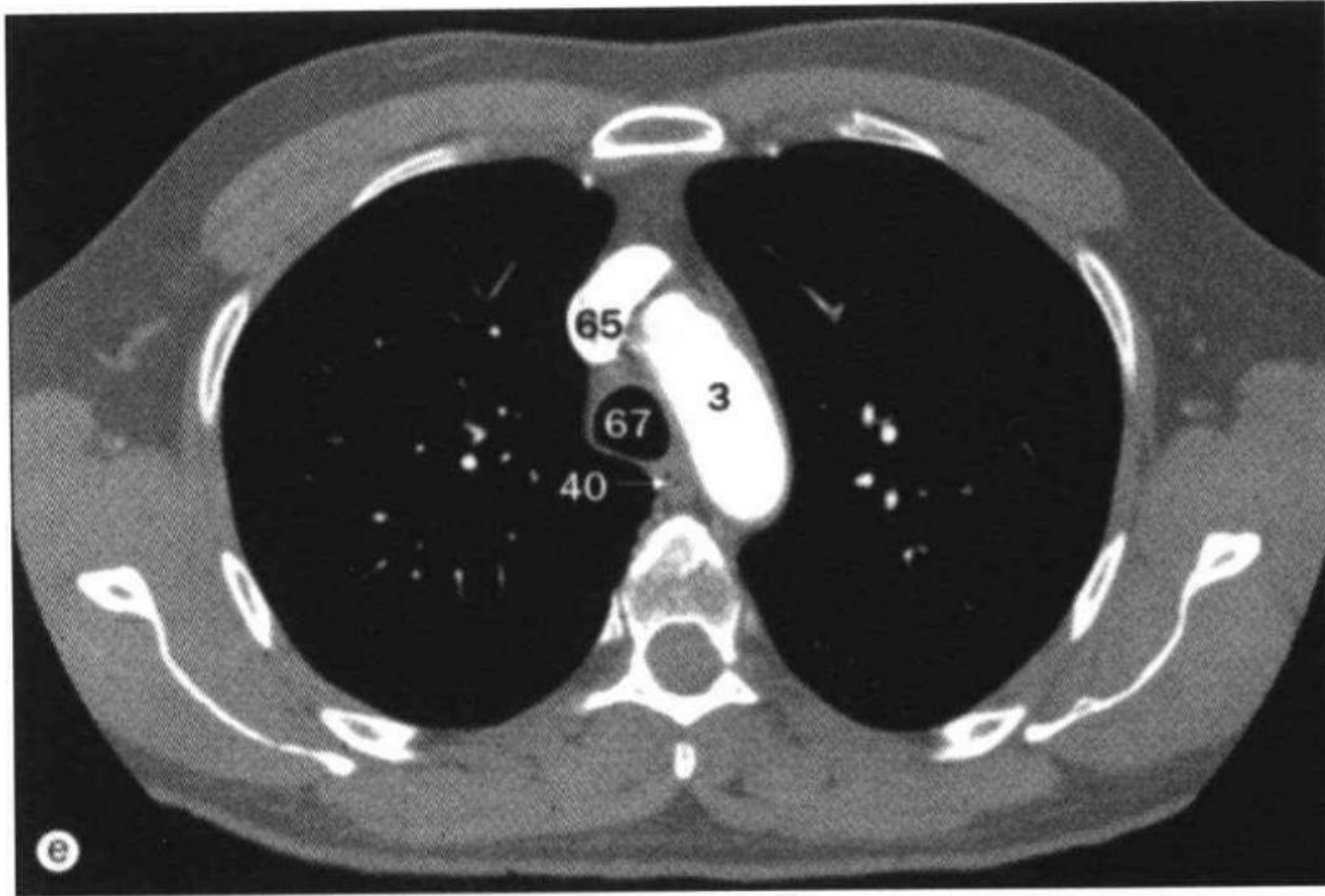




a~t. 胸, 纵隔轴位 CT。

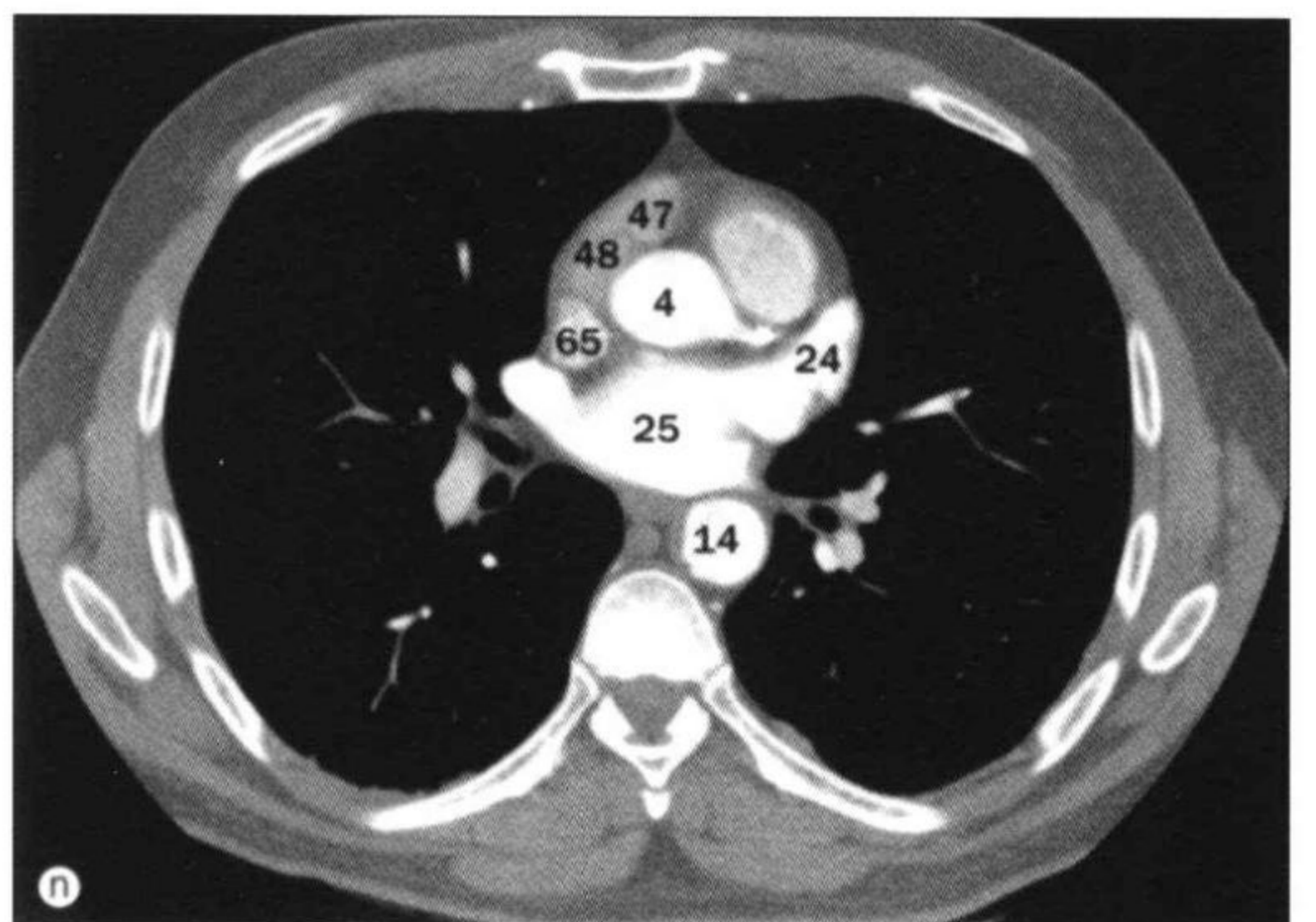
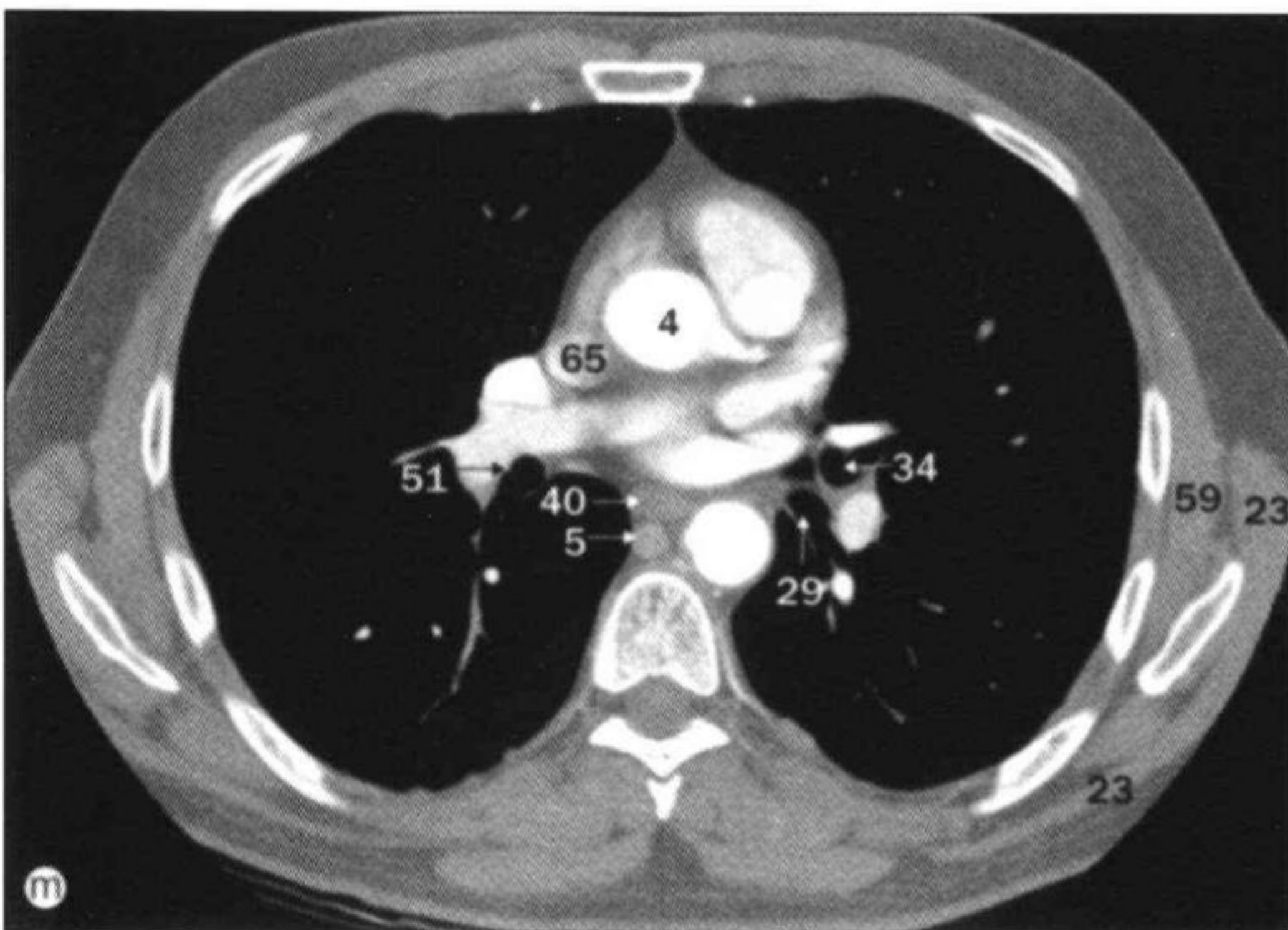
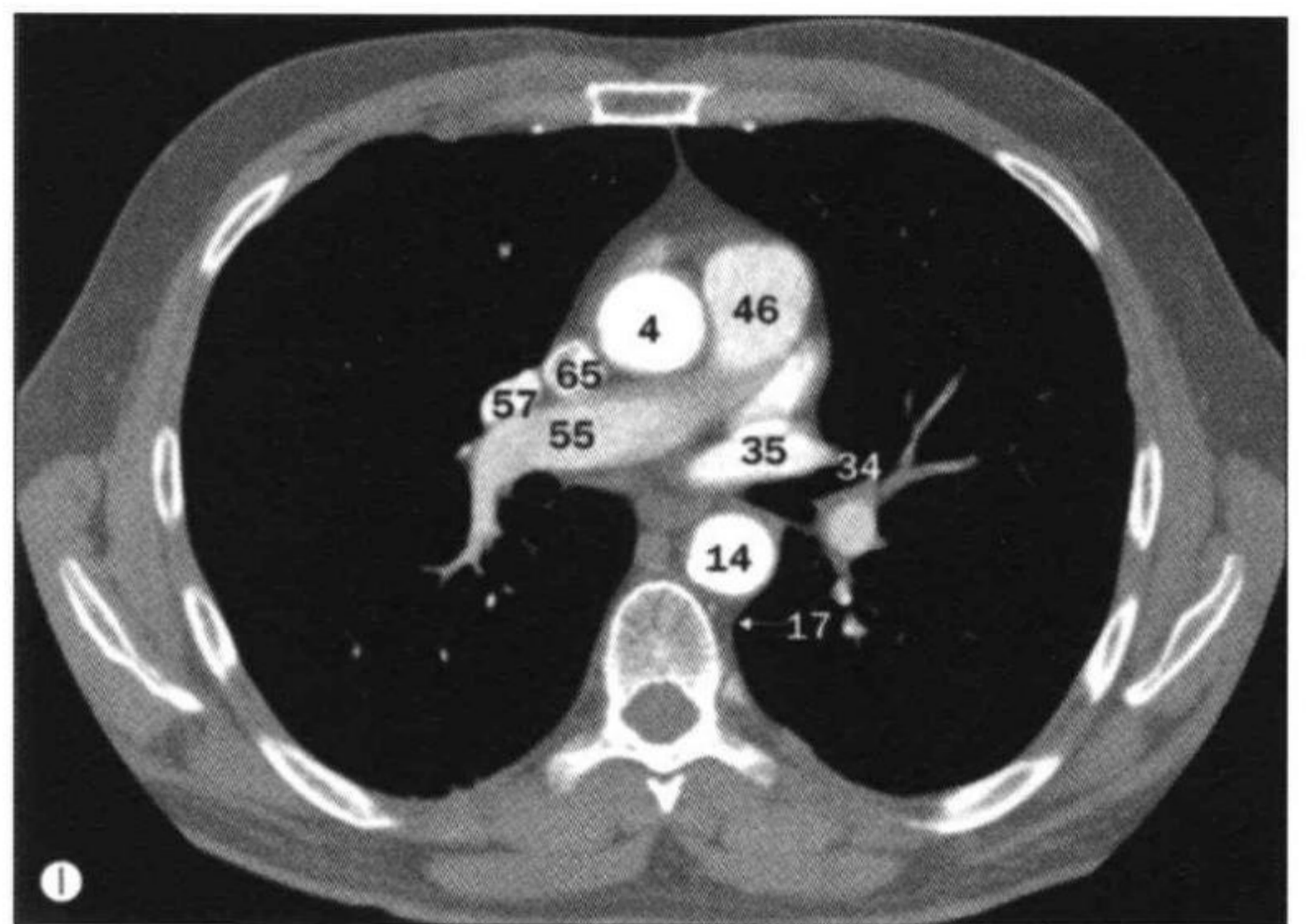
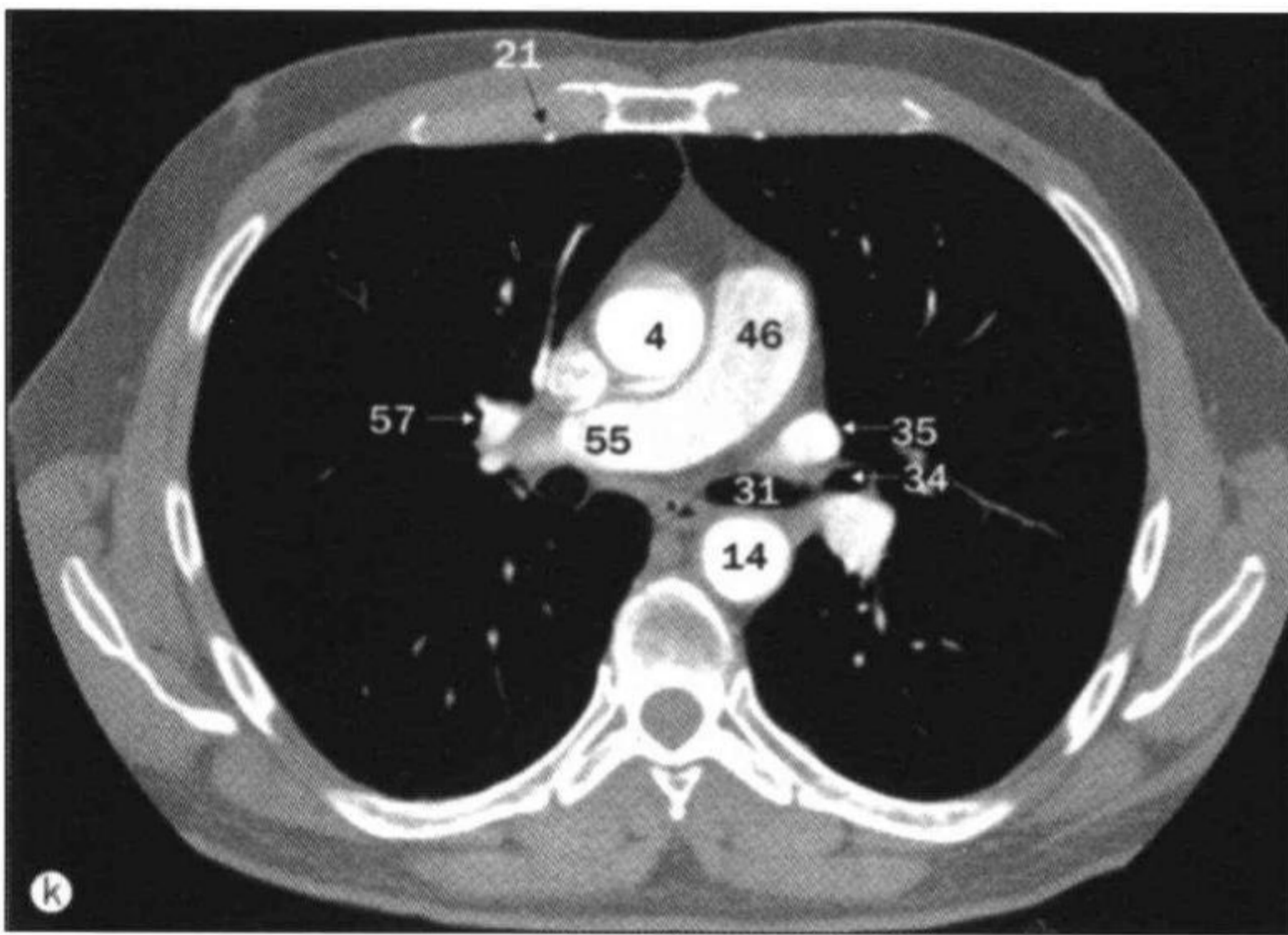
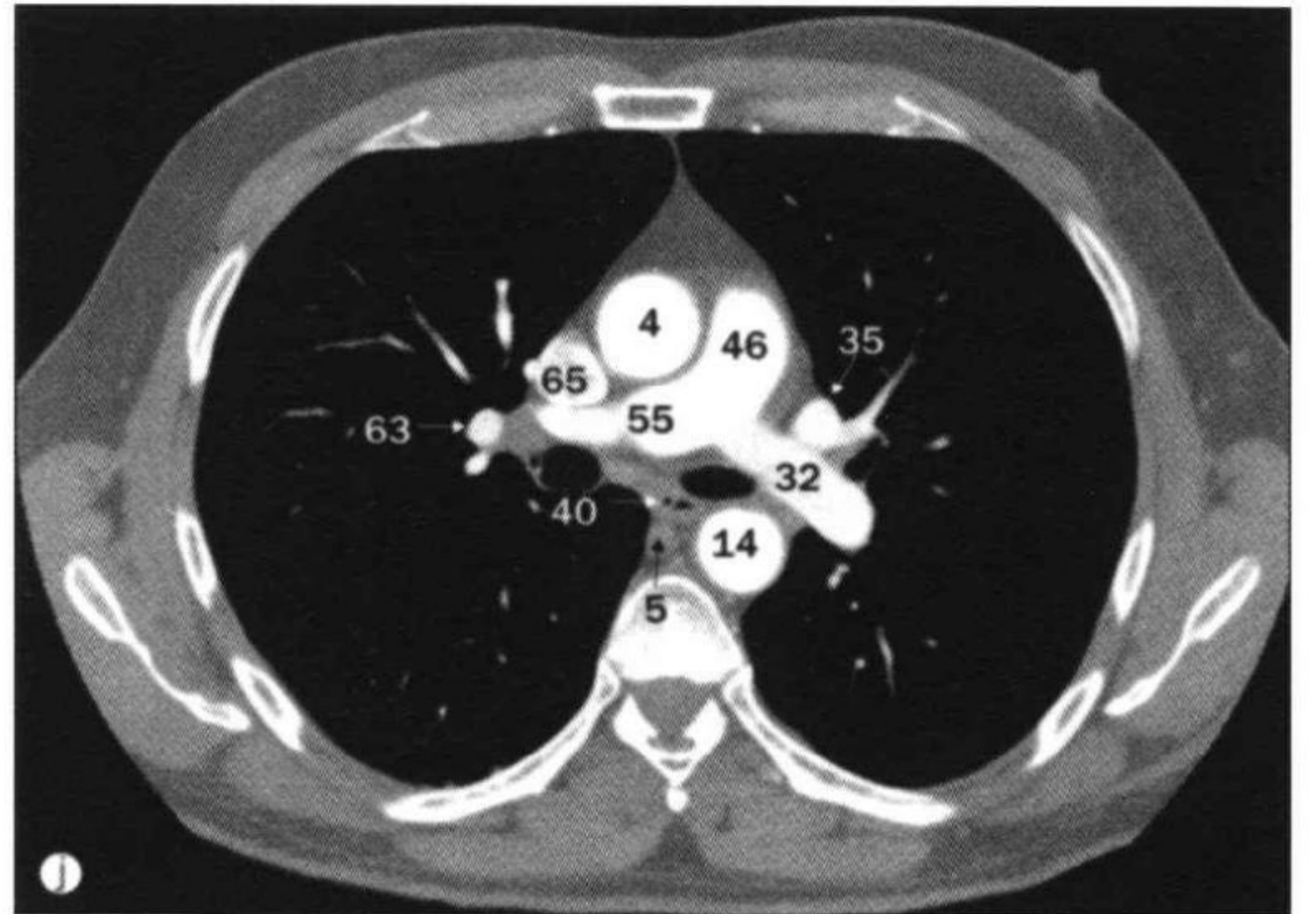
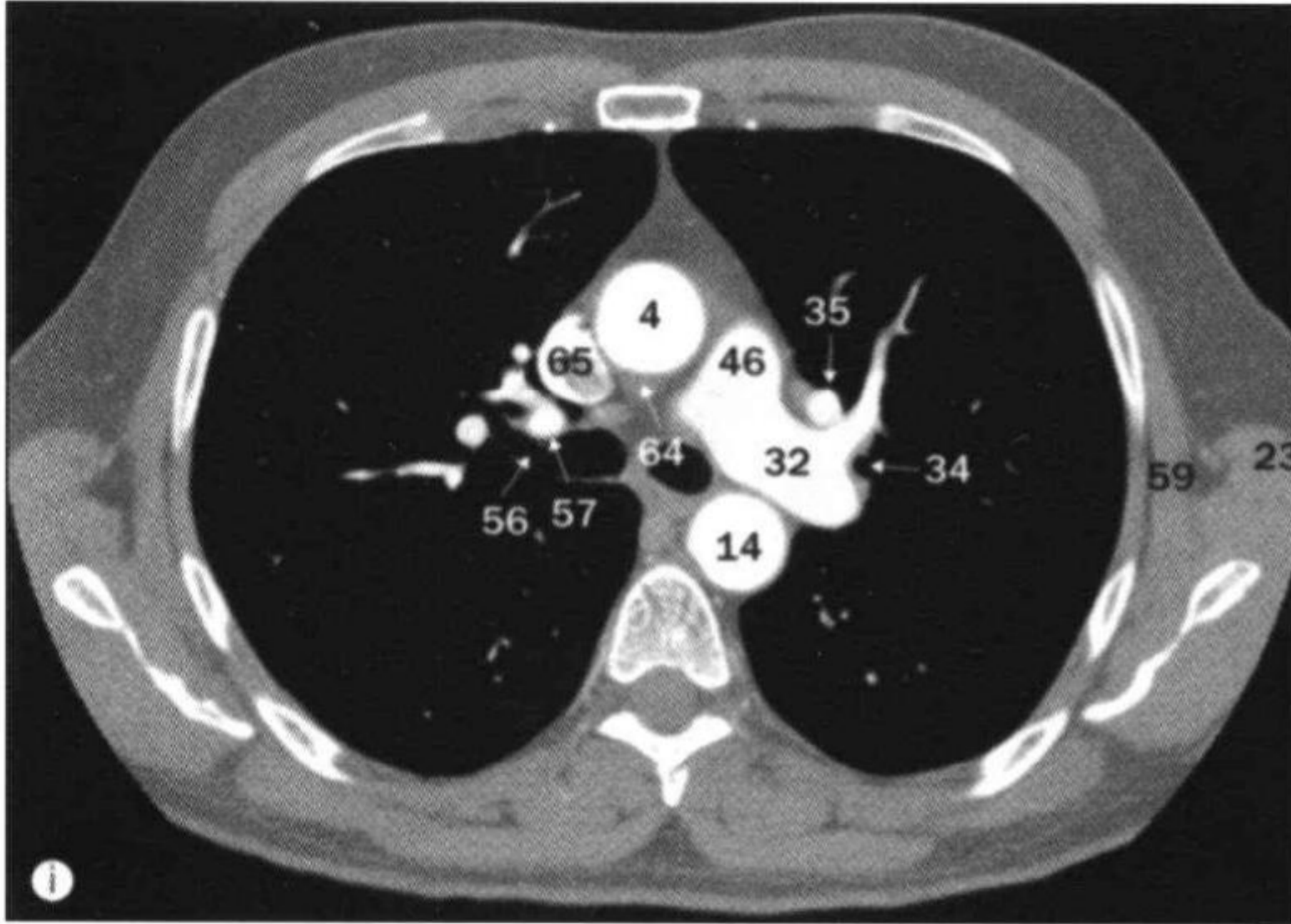
- 1 左冠状动脉前室间支
anterior interventricular branch of left coronary artery
- 2 主动脉瓣 aortic valve
- 3 主动脉弓 (主动脉结节)
arch of aorta (aortic knuckle or knob)
- 4 升主动脉 ascending aorta
- 5 奇静脉 azygos vein
- 6 胸骨体 body of sternum
- 7 椎体 body of vertebra
- 8 头臂干 brachiocephalic trunk
- 9 气管隆嵴 (气管杈) carina (bifurcation of trachea)
- 10 锁骨 clavicle
- 11 冠状窦 coronary sinus
- 12 肋横突关节 costotransverse joint
- 13 肋椎关节 costovertebral joint
- 14 降主动脉 descending aorta
- 15 竖脊肌 erector spinae muscle
- 16 肋头 head of rib
- 17 半奇静脉 hemiazygos vein

- 18 下腔静脉 inferior vena cava
- 19 冈下肌 infraspinatus muscle
- 20 房间隔 interatrial septum
- 21 胸廓内动静脉 internal thoracic artery and vein
- 22 椎板 lamina
- 23 背阔肌 latissimus dorsi muscle
- 24 左心耳 left atrial appendage (auricle)
- 25 左心房 left atrium
- 26 左头臂静脉 left brachiocephalic vein
- 27 左颈总动脉 left common carotid artery
- 28 左半膈 left hemidiaphragm
- 29 左下叶支气管 left inferior lobe bronchus
- 30 左肺下静脉 left inferior pulmonary vein
- 31 左主支气管 left main bronchus
- 32 左肺动脉 left pulmonary artery
- 33 左锁骨下动脉 left subclavian artery
- 34 左上叶支气管 left superior lobe bronchus
- 35 左肺上静脉 left superior pulmonary vein
- 36 左心室腔 left ventricular cavity

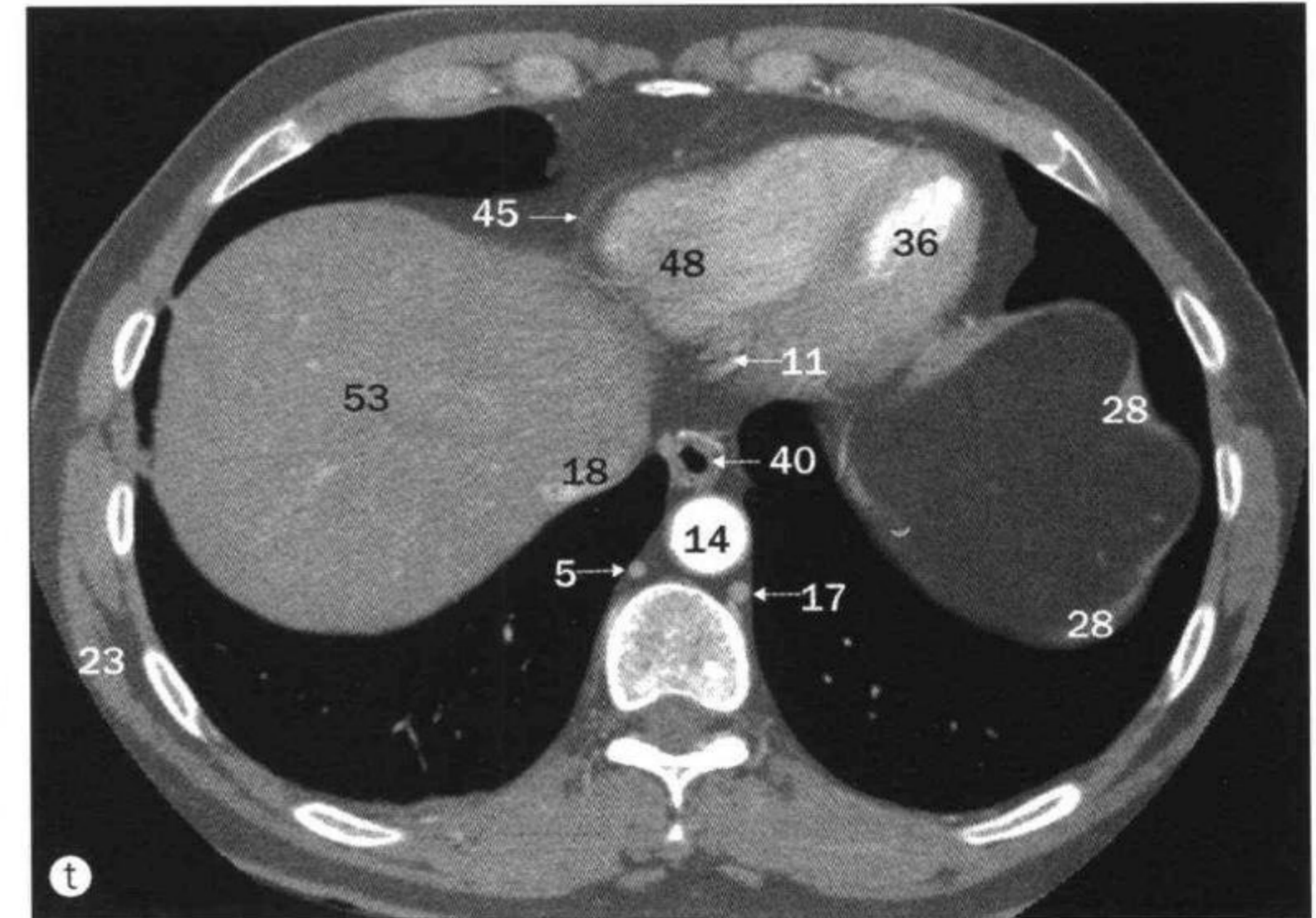
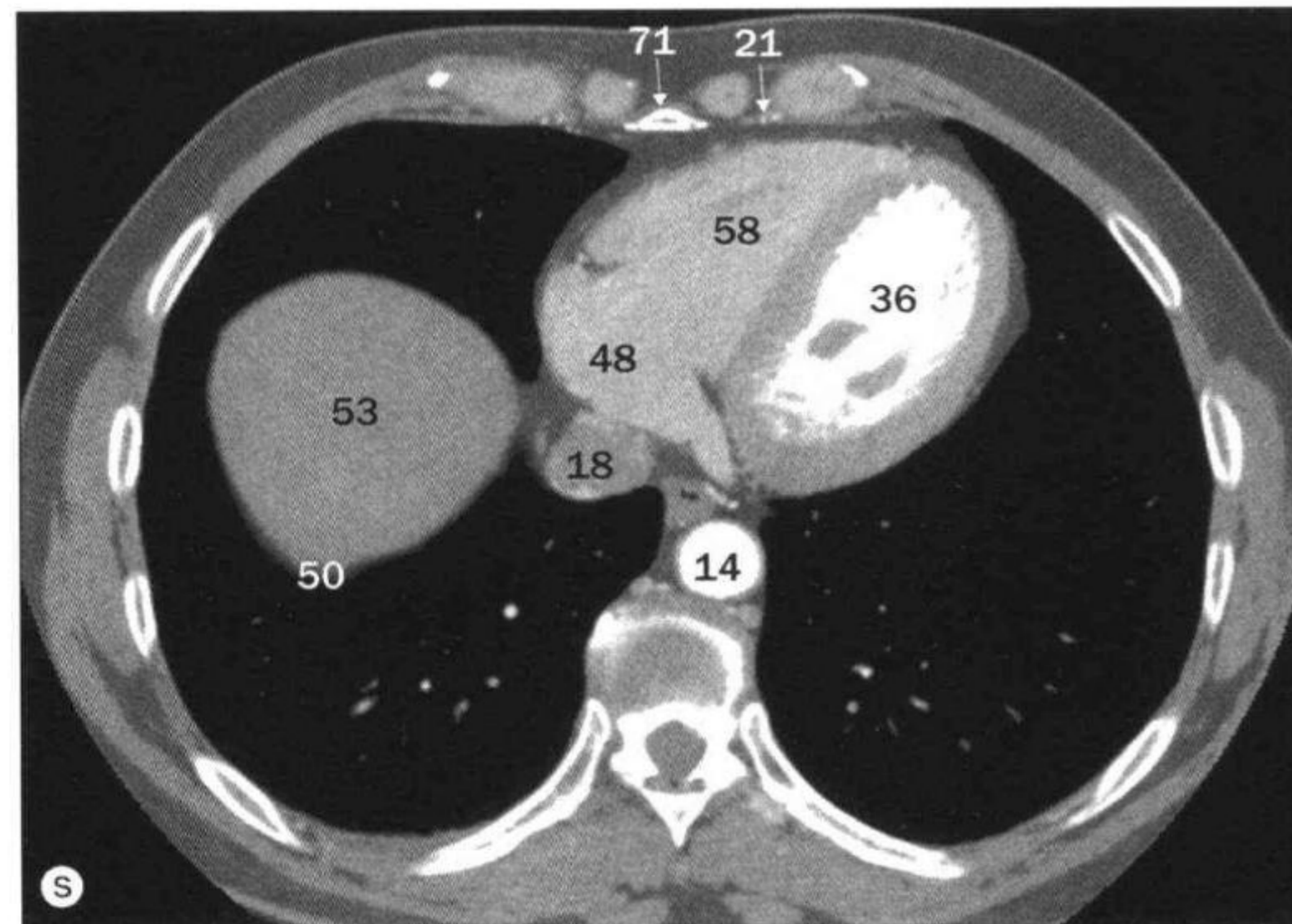
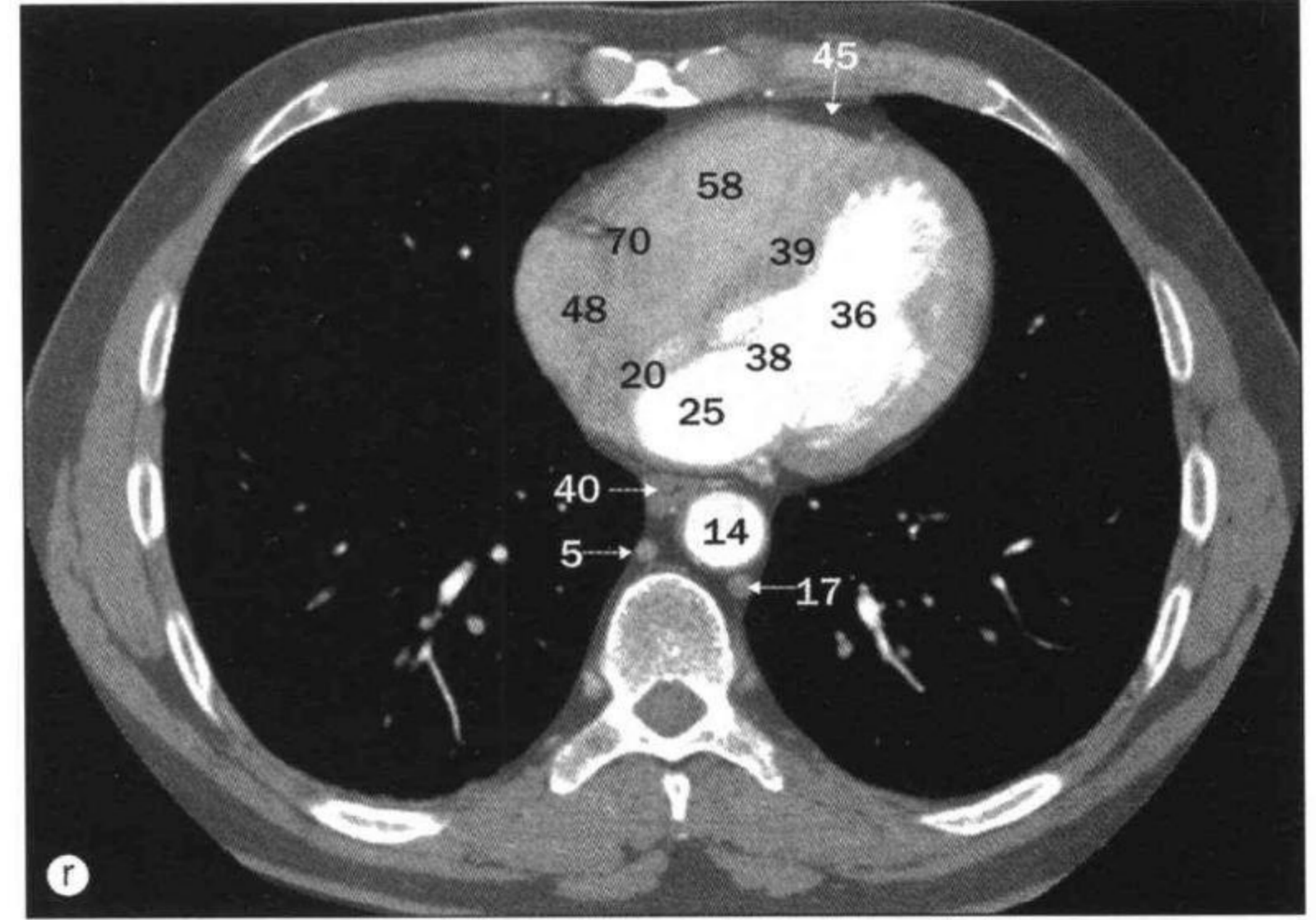
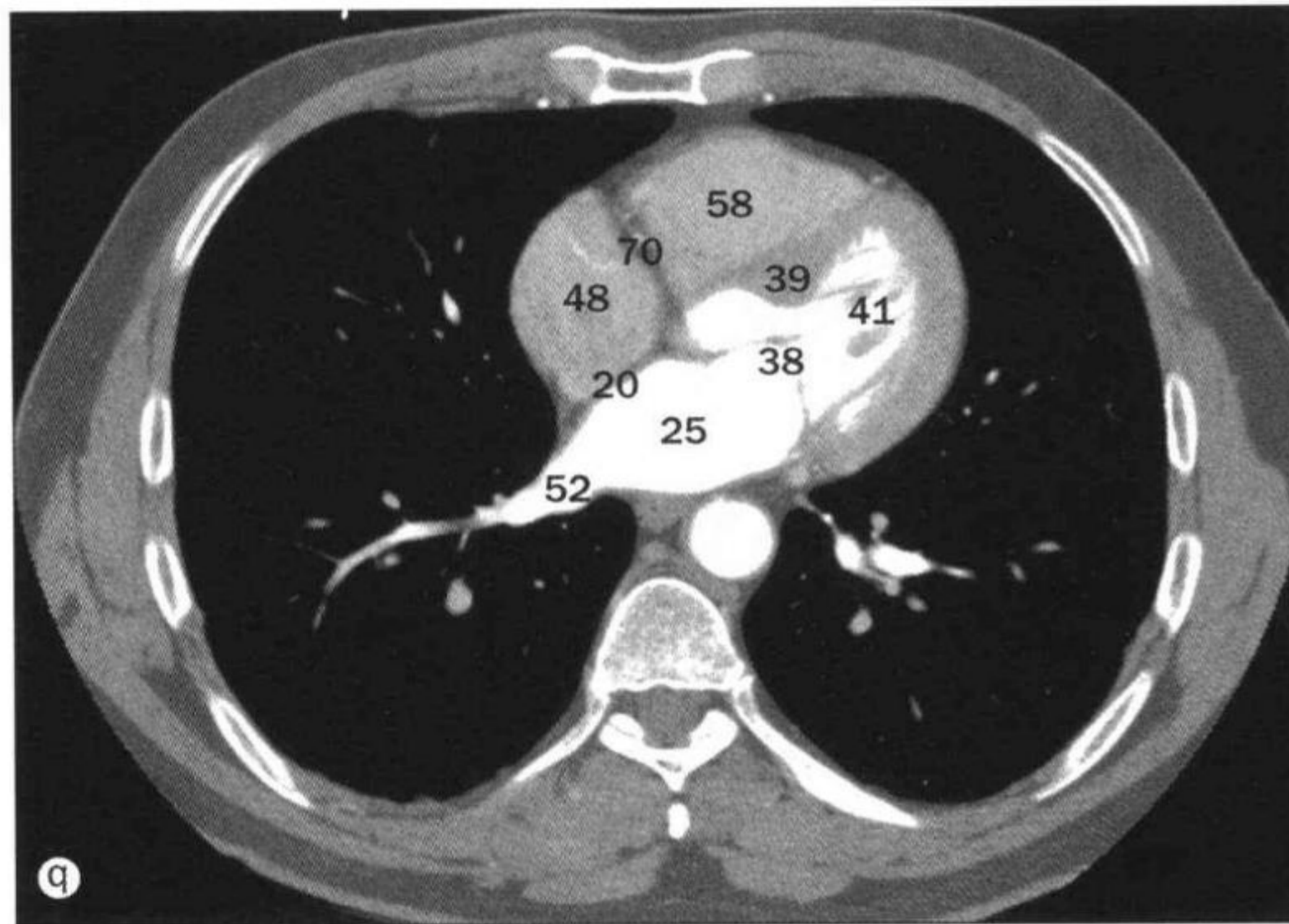
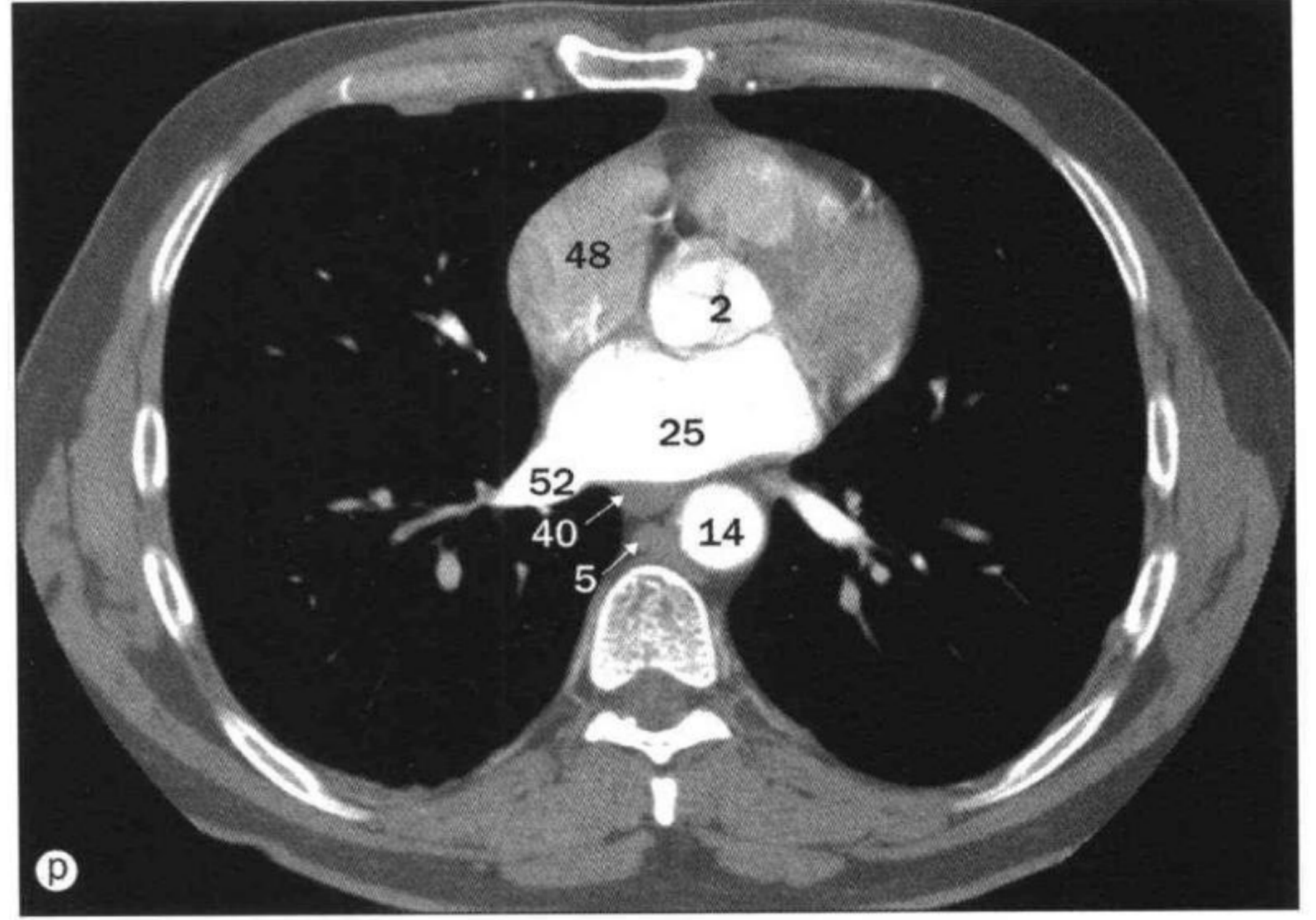
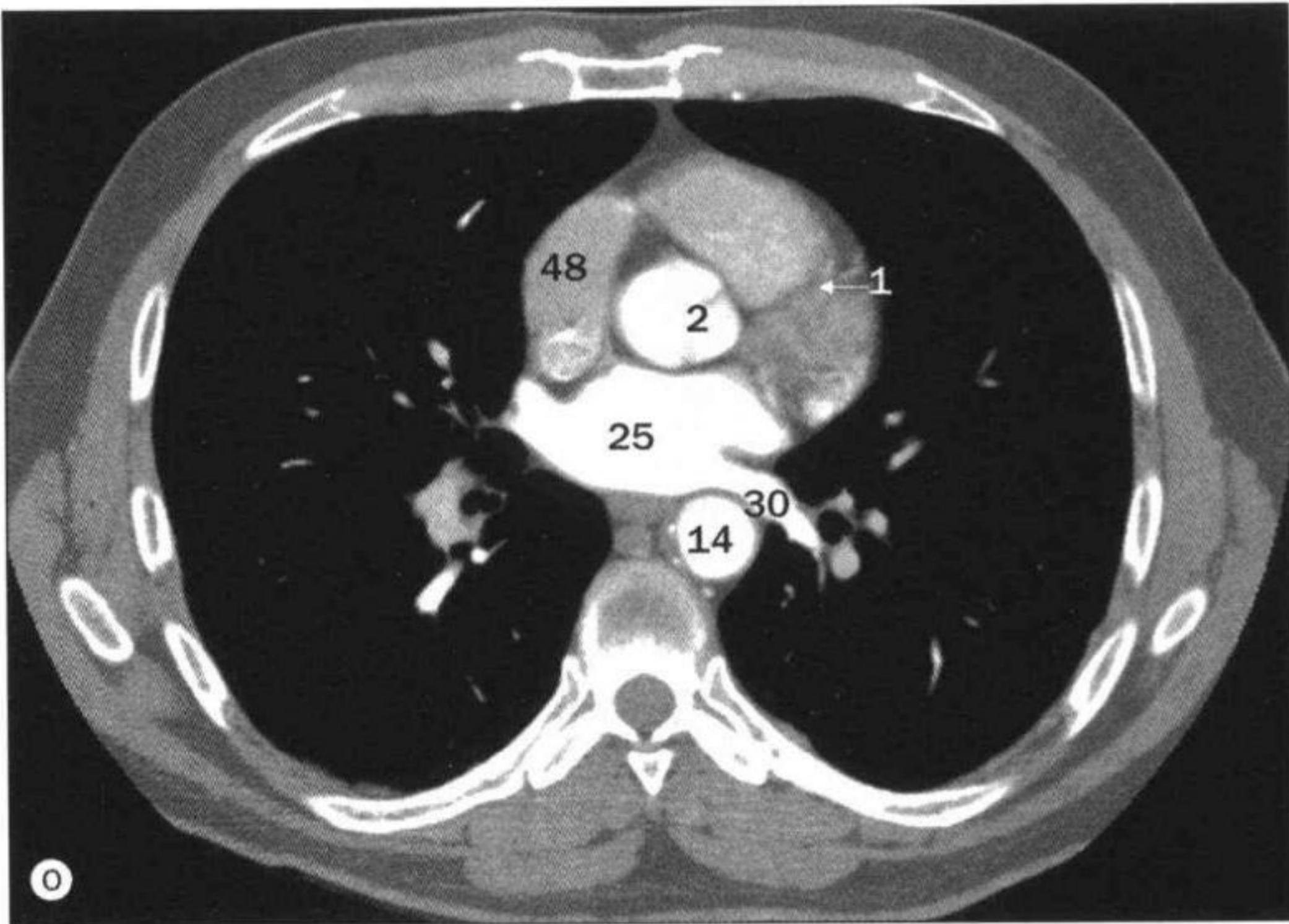


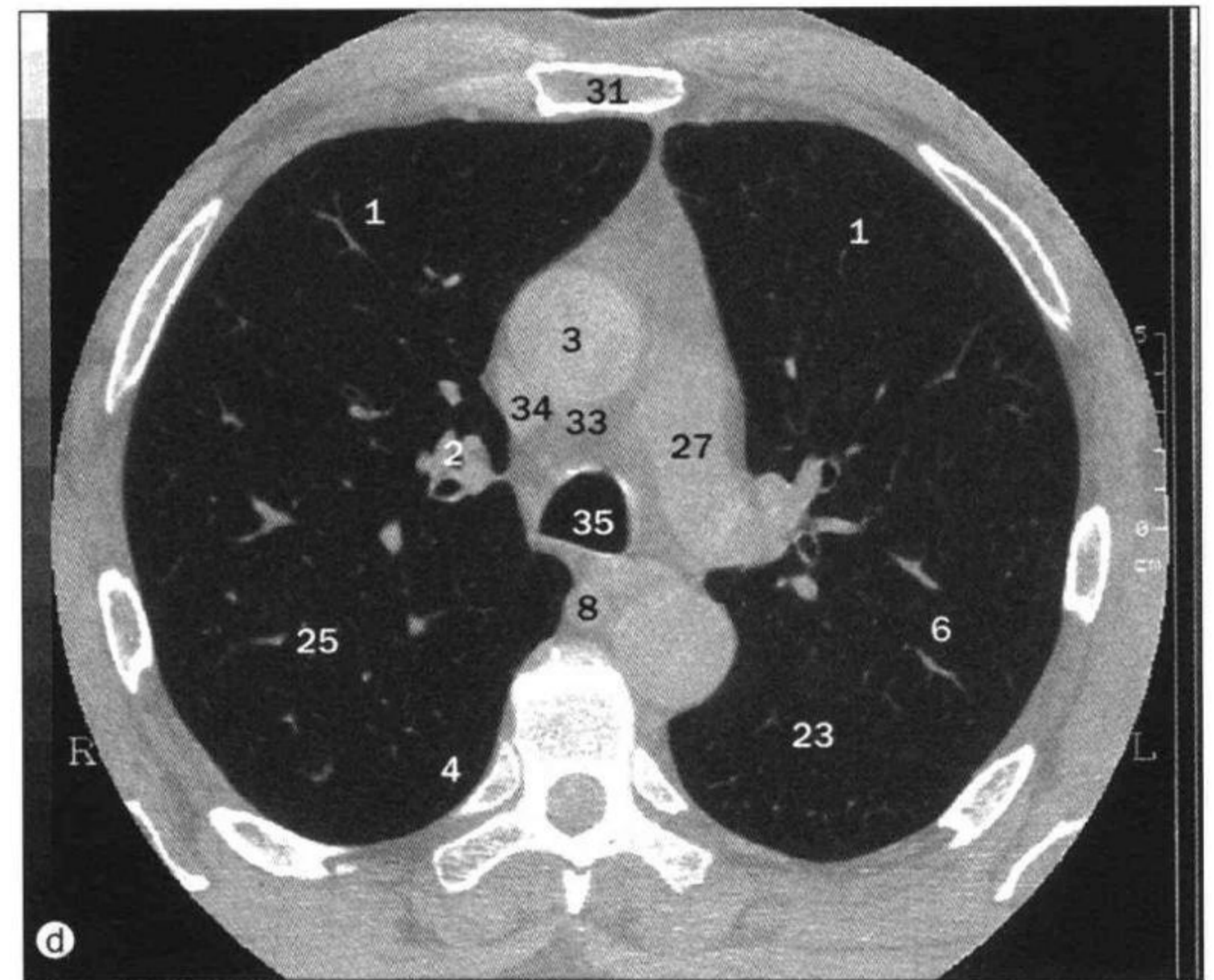
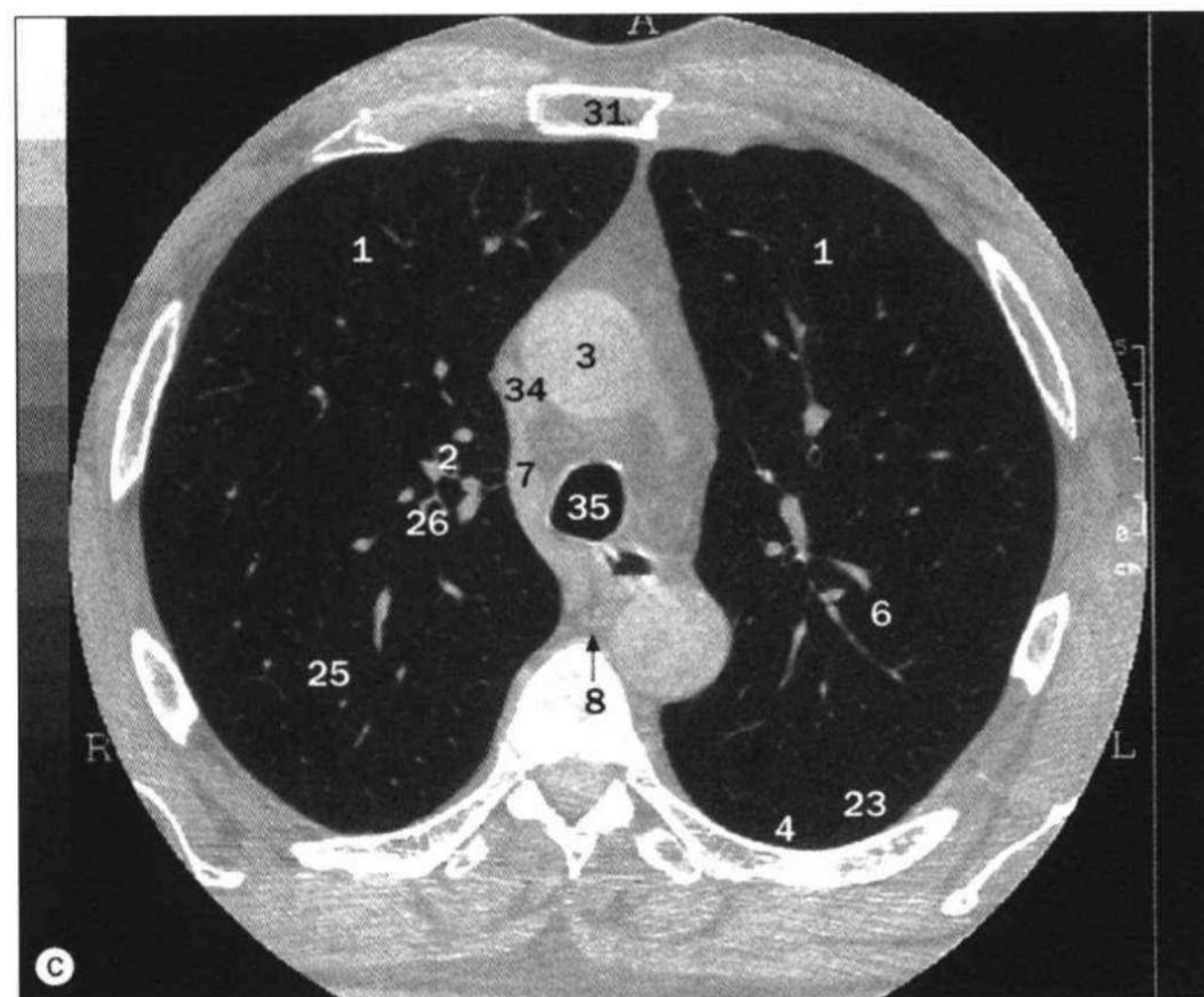
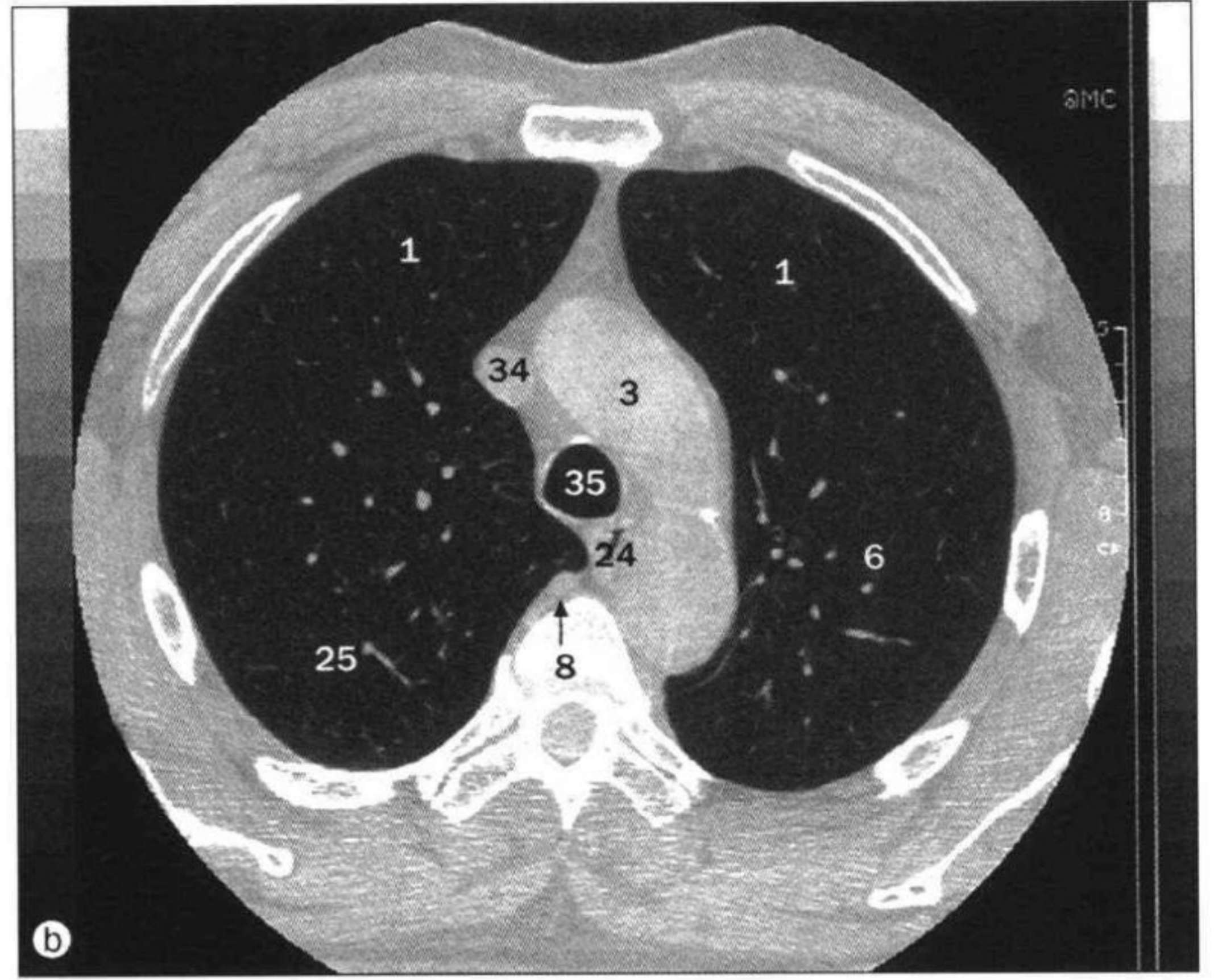
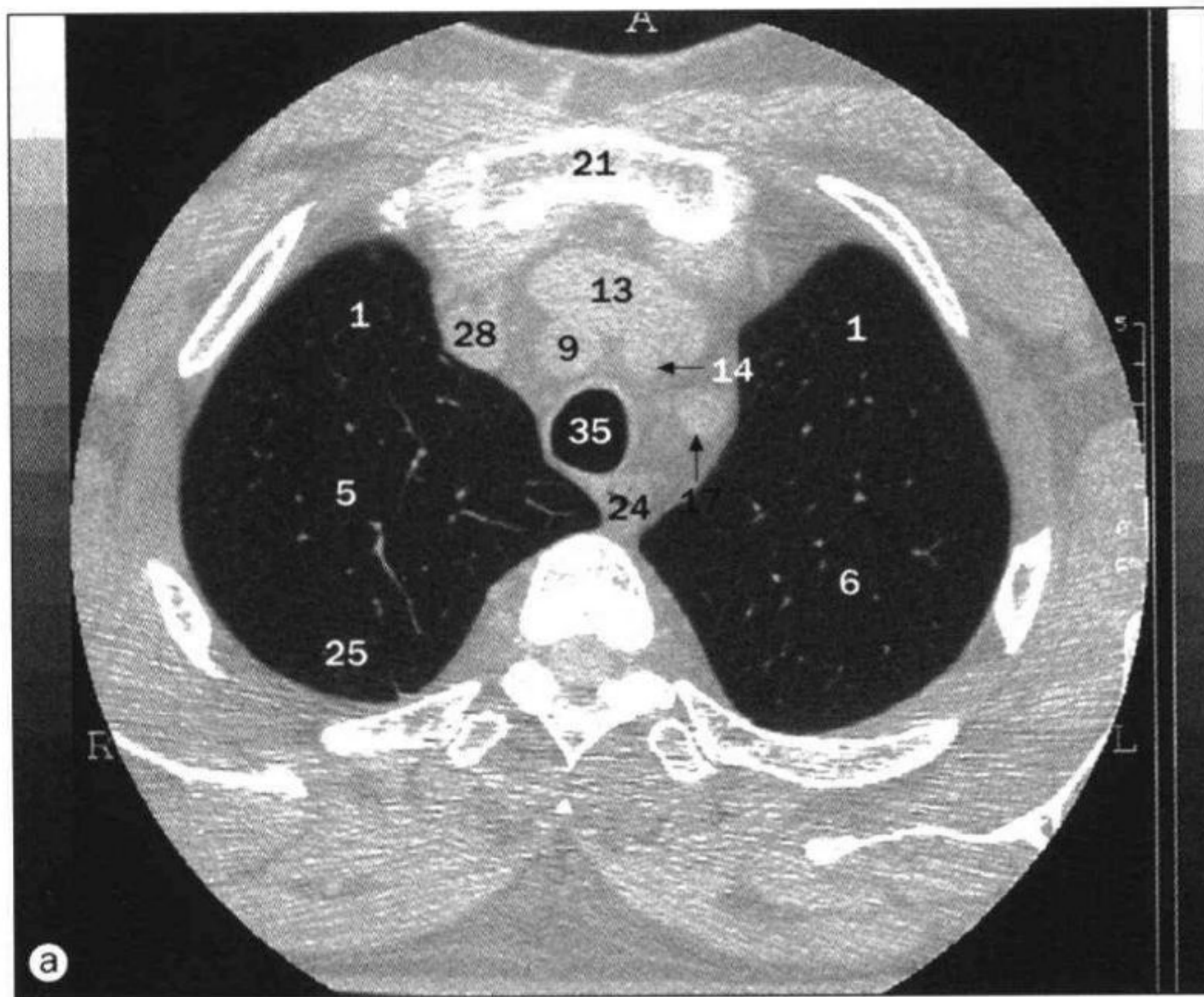
37 胸骨柄 manubrium of sternum
 38 二尖瓣 mitral valve
 39 室间隔肌部 muscular interventricular septum
 40 食管 oesophagus
 41 乳头肌 papillary muscles
 42 胸大肌 pectoralis major muscle
 43 胸小肌 pectoralis minor muscle
 44 椎弓根 pedicle
 45 心包 pericardium
 46 肺动脉干 pulmonary trunk
 47 右心耳 right atrial appendage (auricle)
 48 右心房 right atrium
 49 右头臂静脉 right brachiocephalic vein
 50 右半膈 right hemidiaphragm
 51 右下叶支气管 right inferior lobe bronchus
 52 右肺下静脉 right inferior pulmonary vein
 53 肝右叶 right lobe of liver
 54 右主支气管 right main bronchus

55 右肺动脉 right pulmonary artery
 56 右上叶支气管 right superior lobe bronchus
 57 右肺上静脉 right superior pulmonary vein
 58 右心室腔 right ventricular cavity
 59 前锯肌 serratus anterior muscle
 60 椎管 spinal canal
 61 胸锁关节 sternoclavicular joint
 62 肩胛下肌 subscapularis muscle
 63 右肺动脉上叶支
 superior lobe branch of right pulmonary artery
 64 心包上隐窝 superior pericardial recess
 65 上腔静脉 superior vena cava
 66 冈上肌 supraspinatus muscle
 67 气管 trachea
 68 横突 transverse process
 69 斜方肌 trapezius muscle
 70 三尖瓣 tricuspid valve
 71 剑突 xiphisternum



胸，纵隔轴位 CT (续)。图注见第 96、97 页。

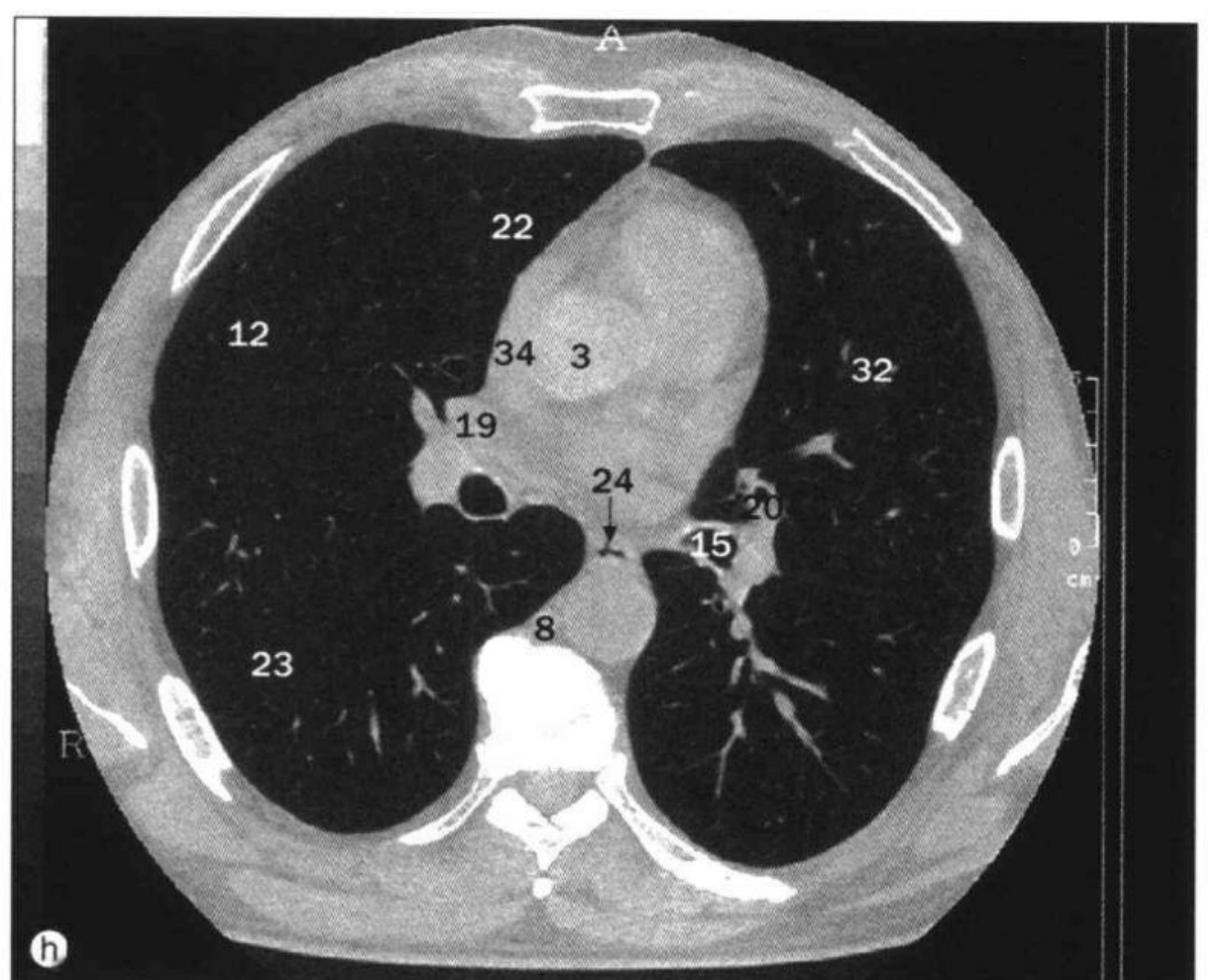
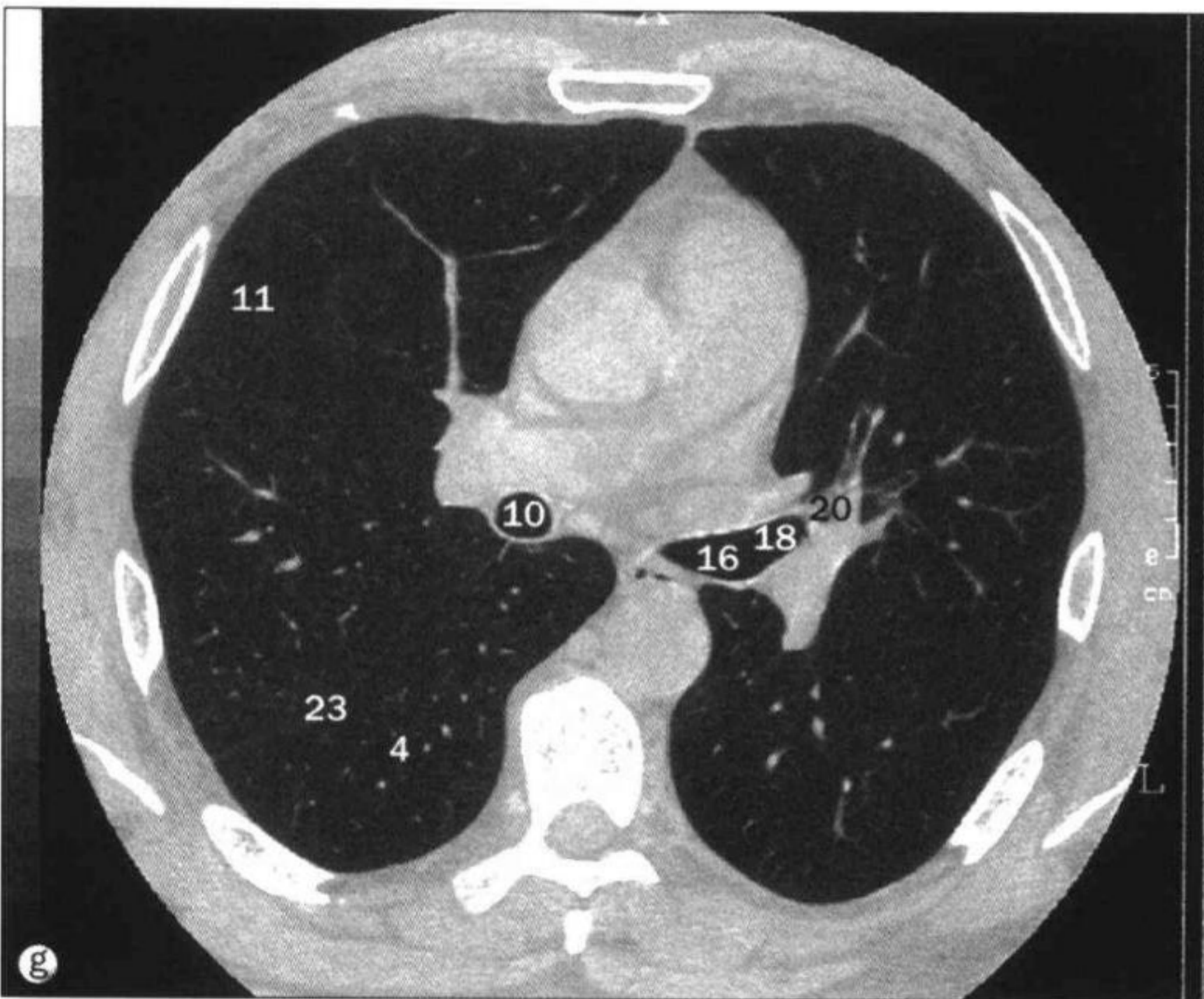
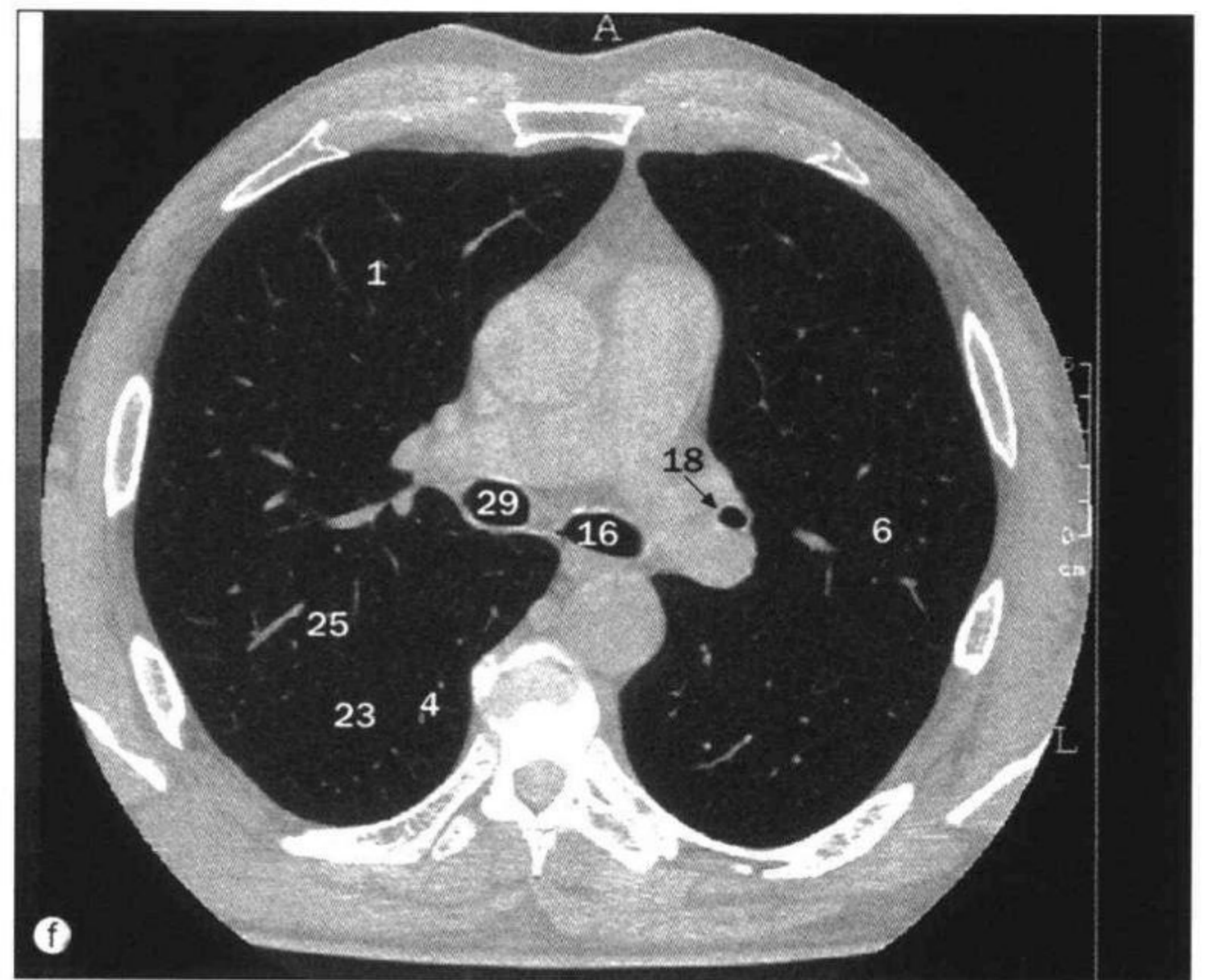
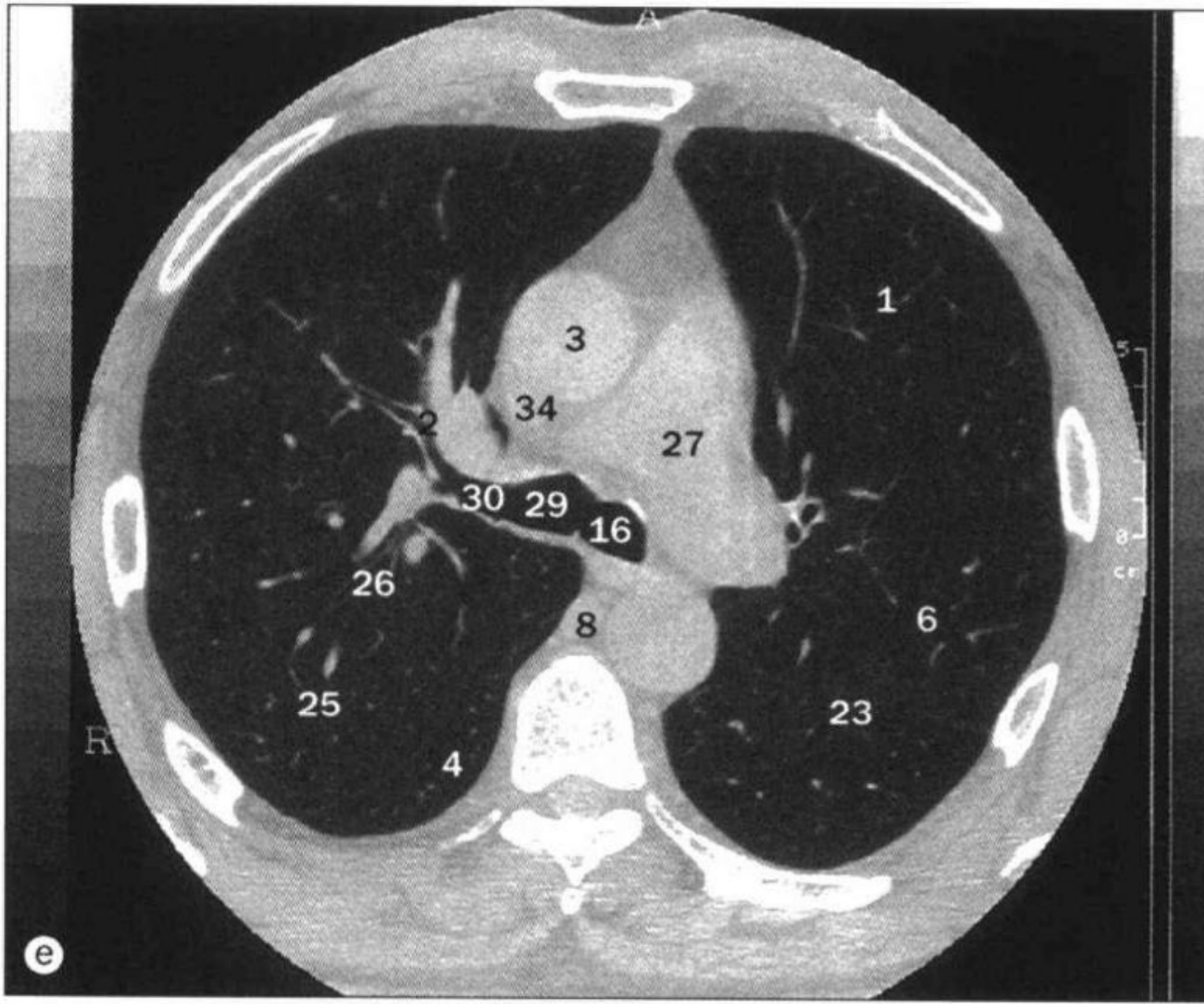




a~h. 肺, 高分辨率轴位 CT。

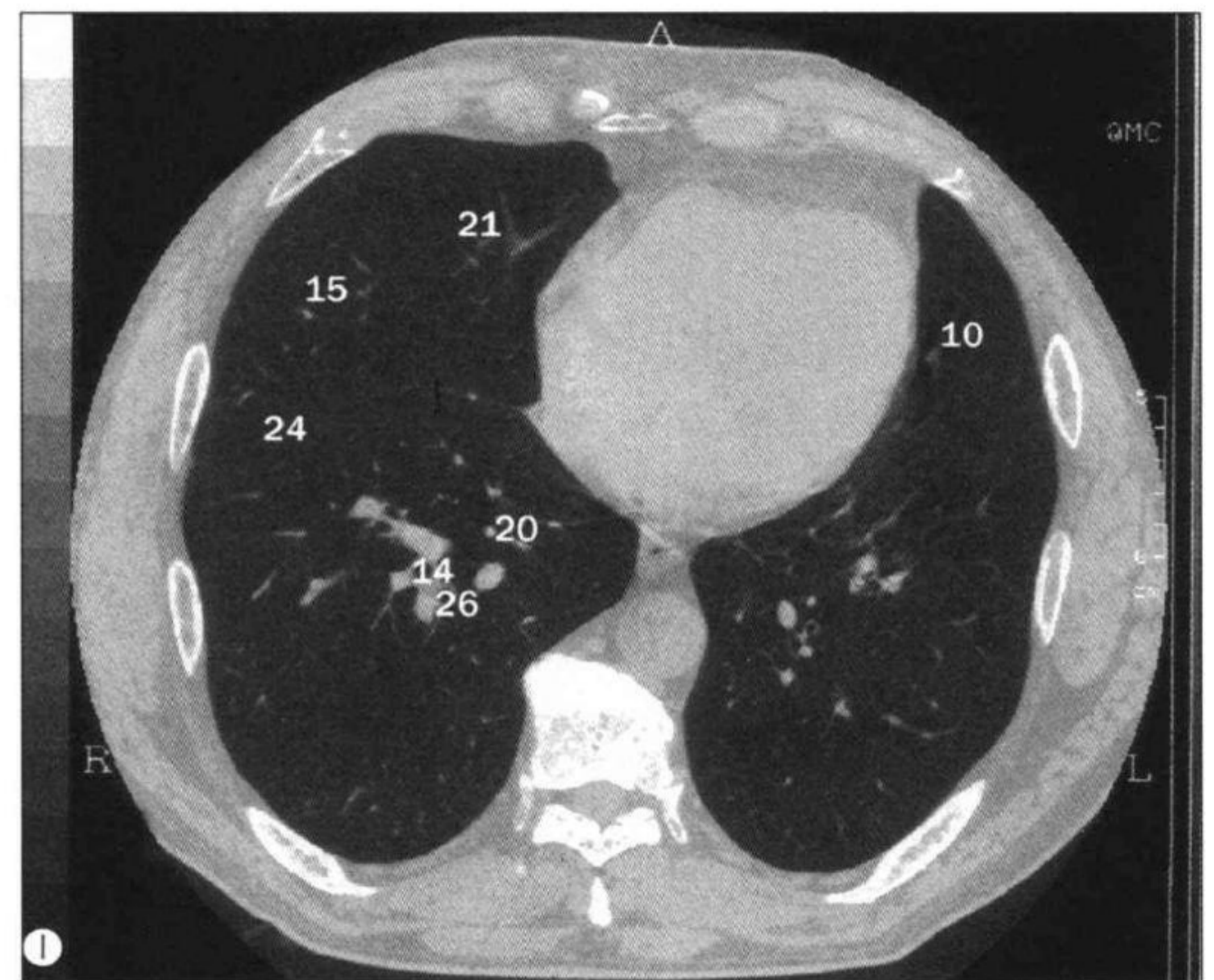
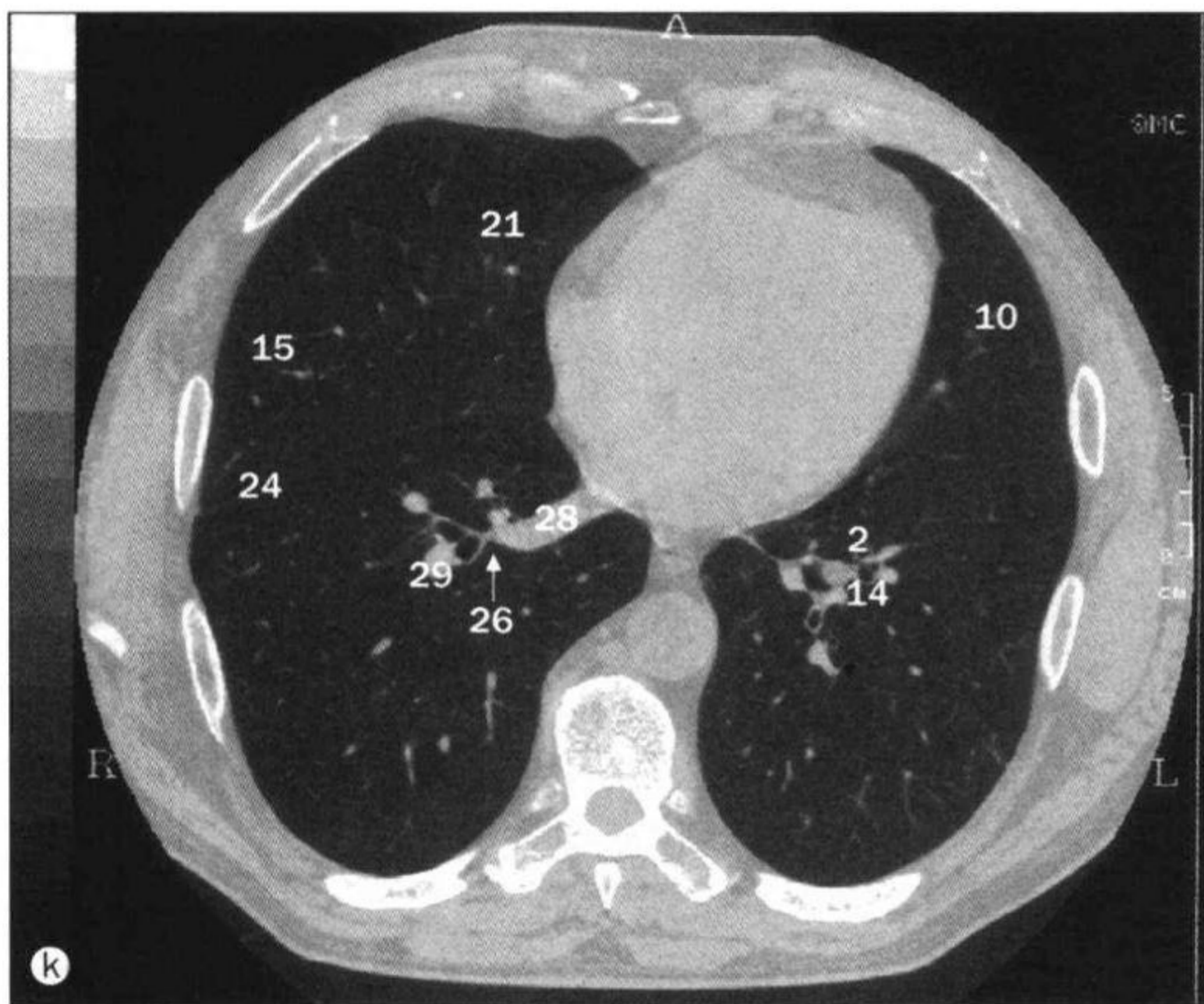
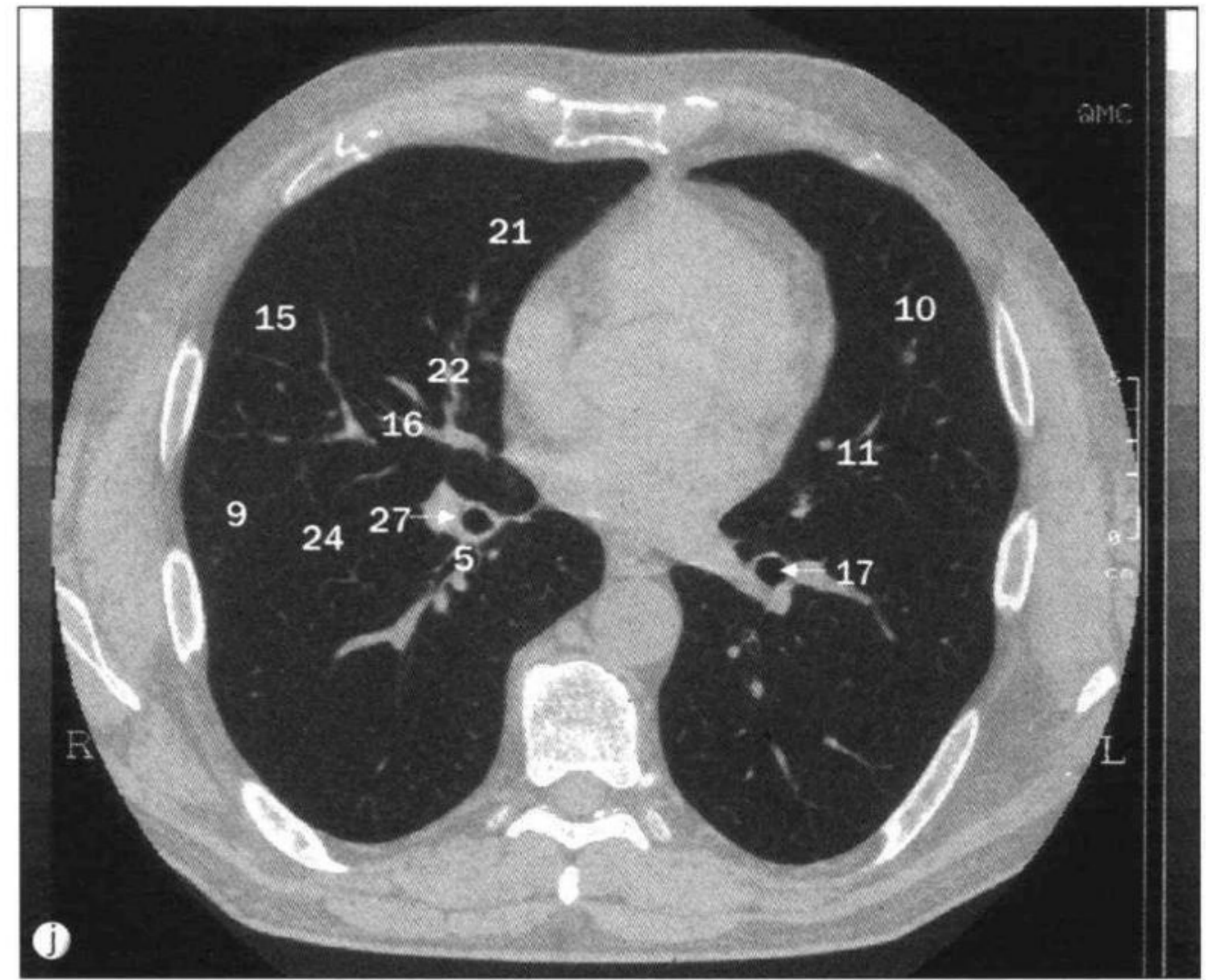
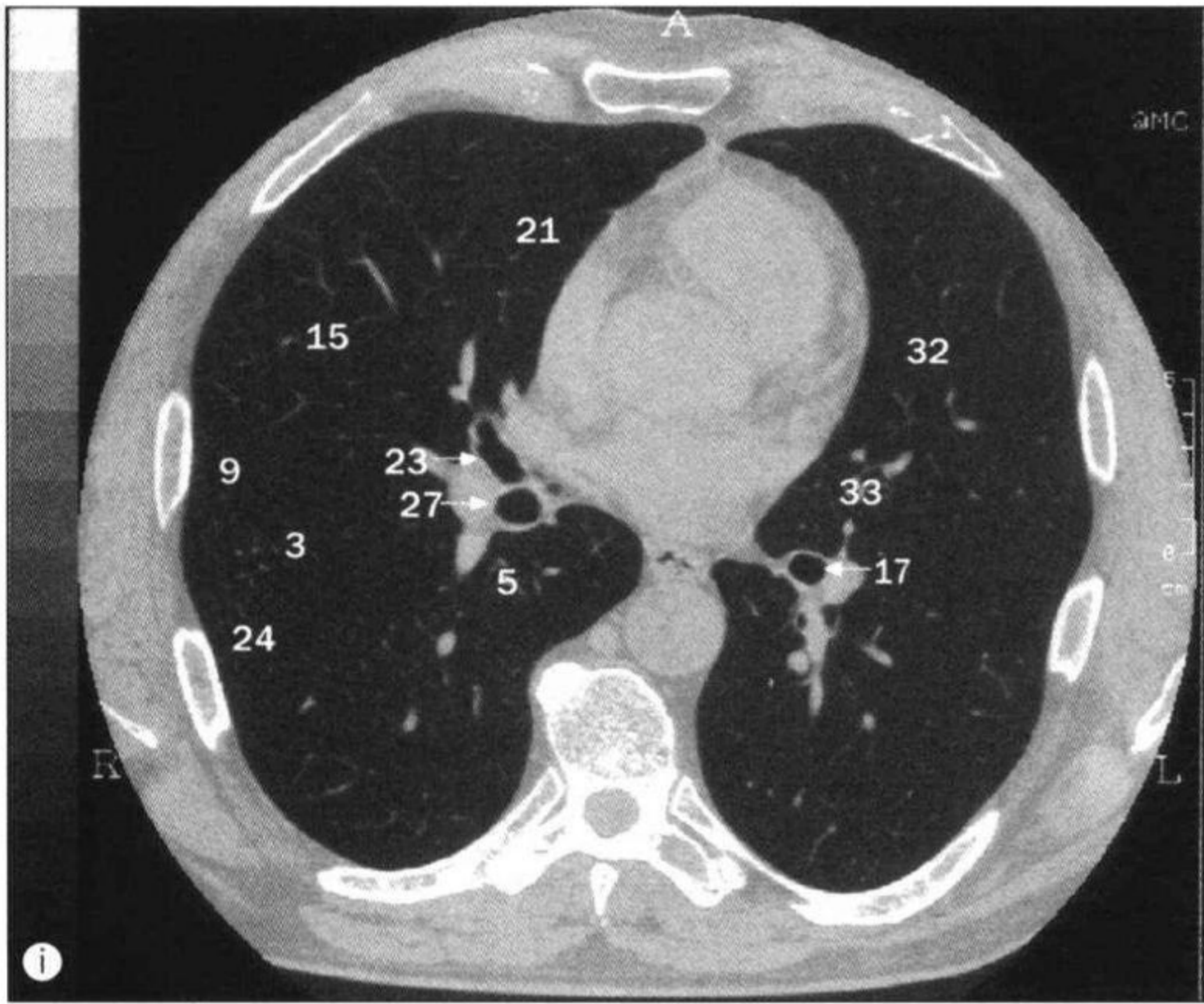
- 1 上叶前段 anterior segment superior lobe
- 2 前段支气管 anterior segmental bronchus
- 3 主动脉 aorta
- 4 下叶尖段 apical segment inferior lobe
- 5 右上叶尖段 apical segment right superior lobe
- 6 左上叶尖后段 apicoposterior segment left superior lobe
- 7 奇静脉弓 azygos arch
- 8 奇静脉 azygos vein
- 9 头臂干 brachiocephalic trunk
- 10 中间支气管 bronchus intermedius

- 11 水平裂 horizontal fissure
- 12 中叶外侧段 lateral segment middle lobe
- 13 左头臂静脉 left brachiocephalic vein
- 14 左颈总动脉 left common carotid artery
- 15 左下叶支气管 left inferior lobe bronchus
- 16 左主支气管 left main bronchus
- 17 左锁骨下动脉 left subclavian artery
- 18 左上叶支气管 left superior lobe bronchus
- 19 左肺上静脉 left superior pulmonary vein
- 20 舌段支气管 lingular segmental bronchus



21 胸骨柄 manubrium of sternum
 22 中叶内侧段 medial segment middle lobe
 23 斜裂 oblique fissure
 24 食管 oesophagus
 25 上叶后段 posterior segment superior lobe
 26 后段支气管 posterior segmental bronchus
 27 肺动脉 pulmonary artery
 28 右头臂静脉 right brachiocephalic vein

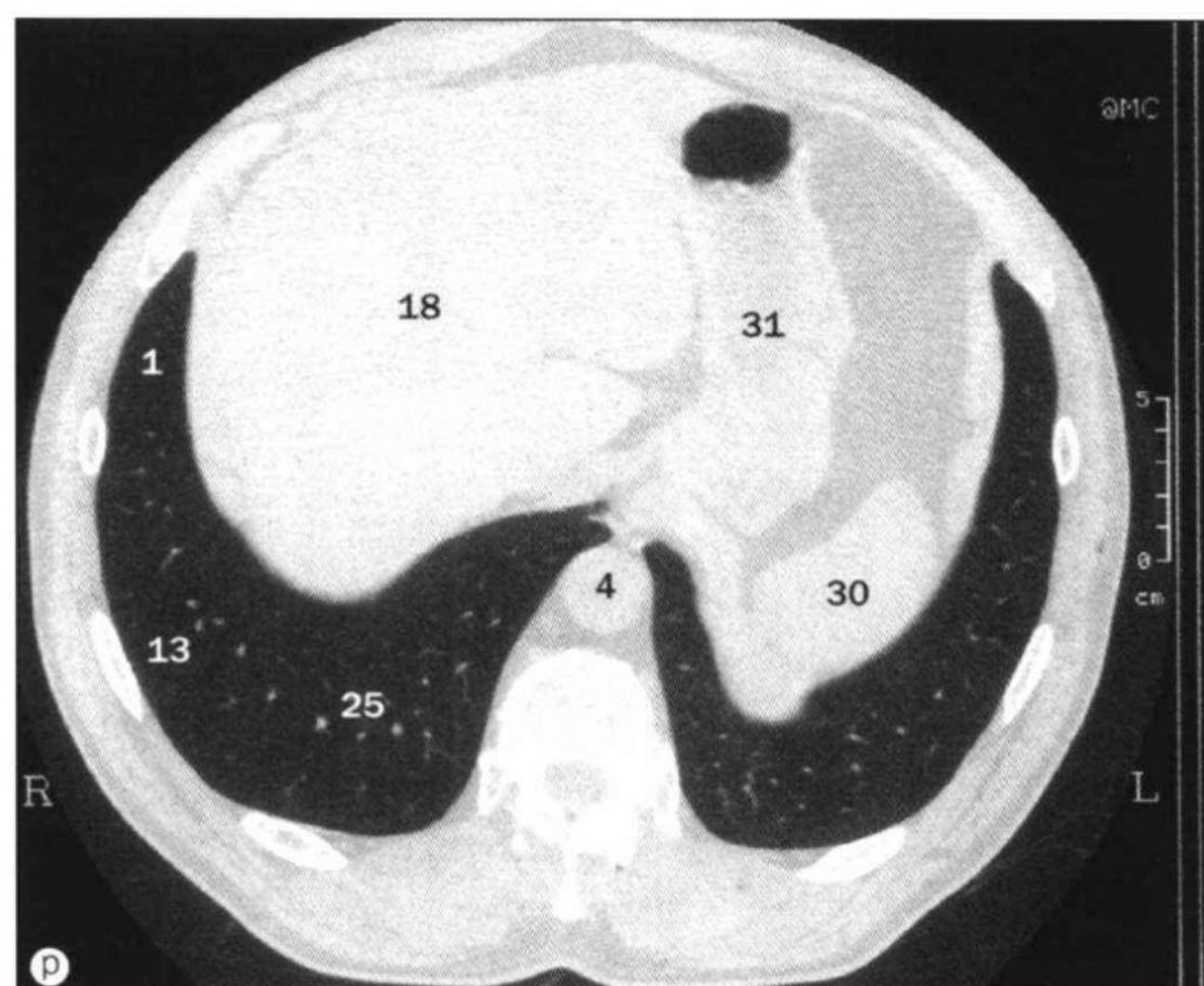
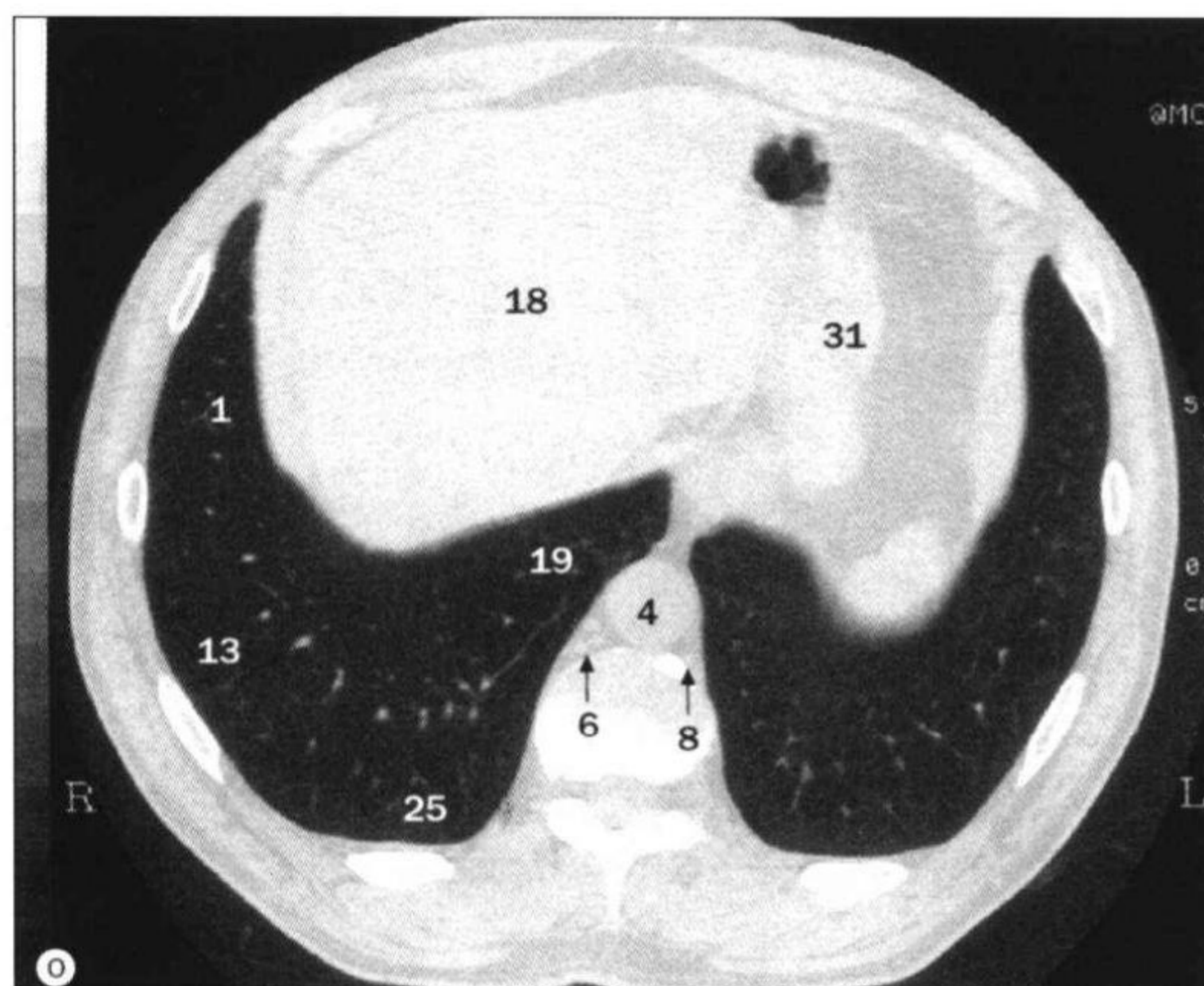
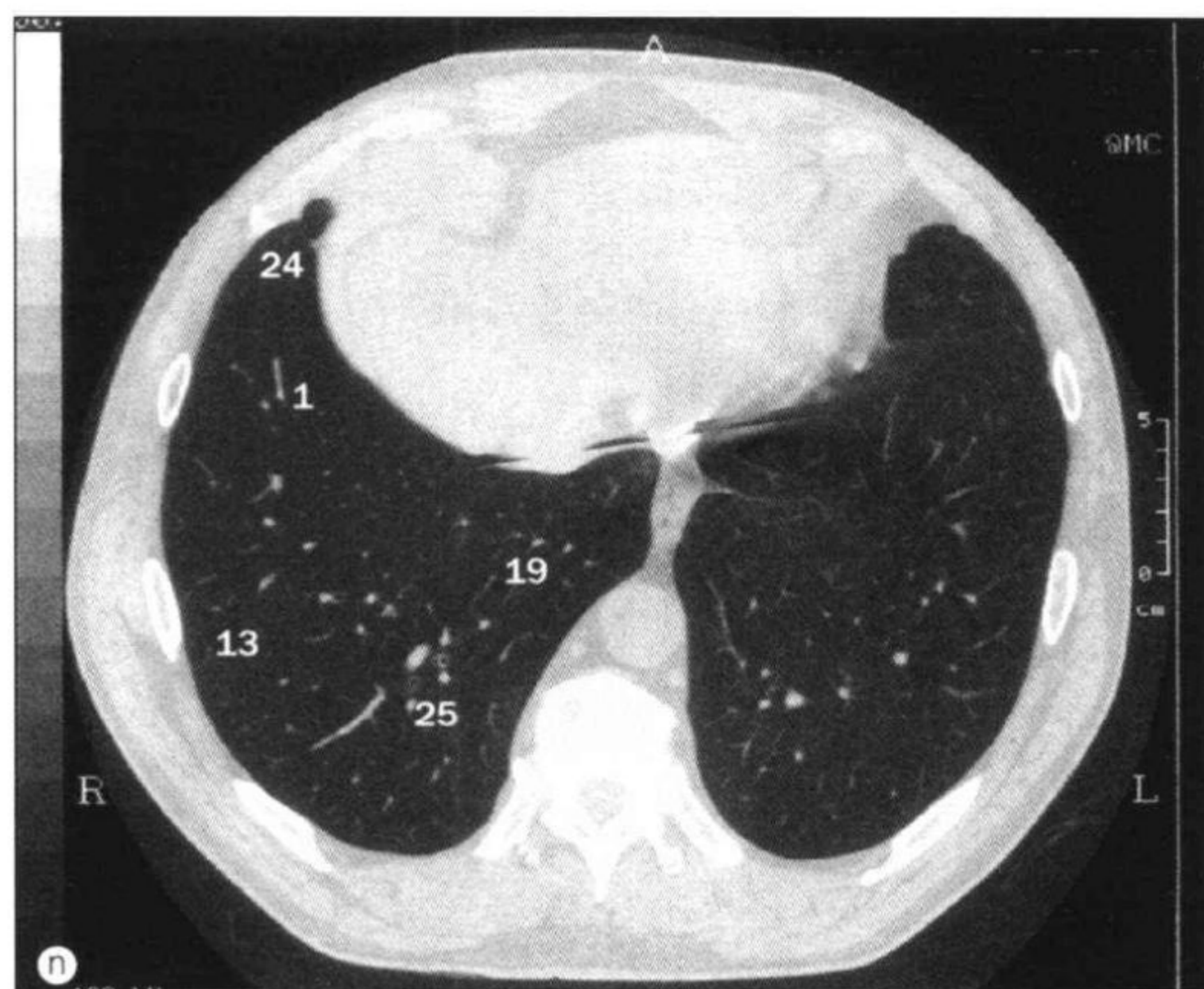
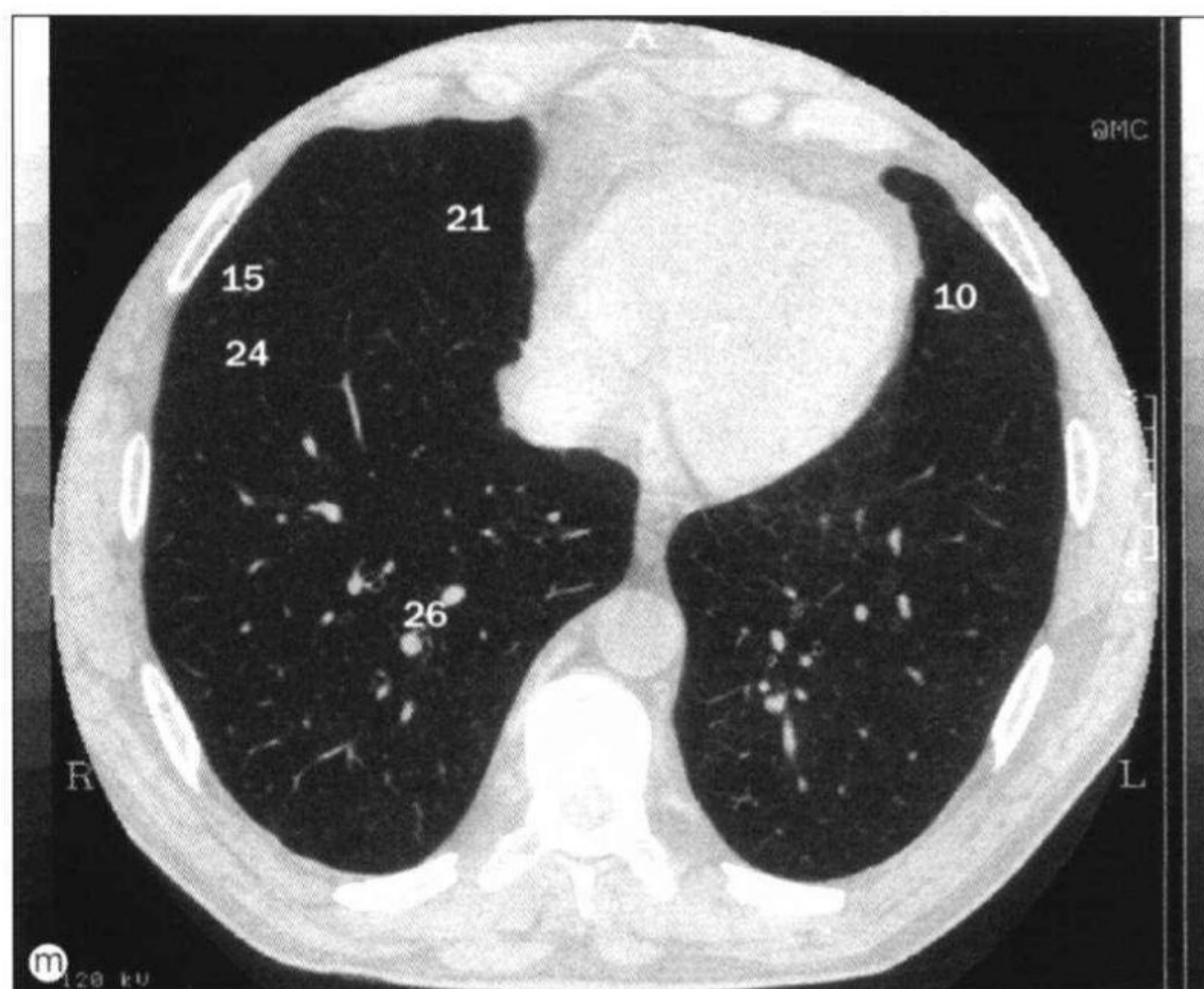
29 右主支气管 right main bronchus
 30 右上叶支气管 right superior lobe bronchus
 31 胸骨 sternum
 32 上舌段 superior lingular segment
 33 心包上隐窝 superior pericardial recess
 34 上腔静脉 superior vena cava
 35 气管 trachea



i~p. 肺，高分辨率轴位 CT。

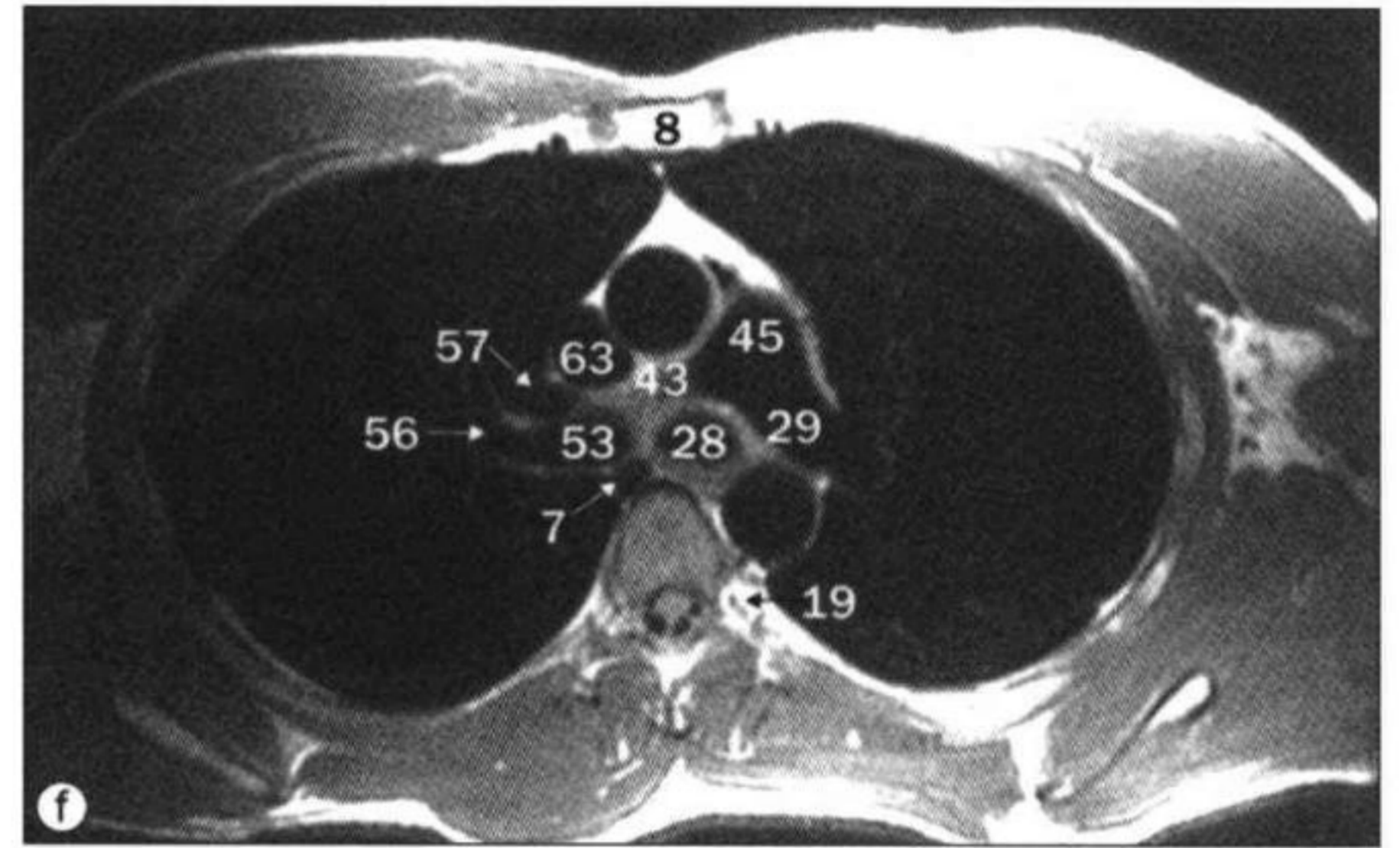
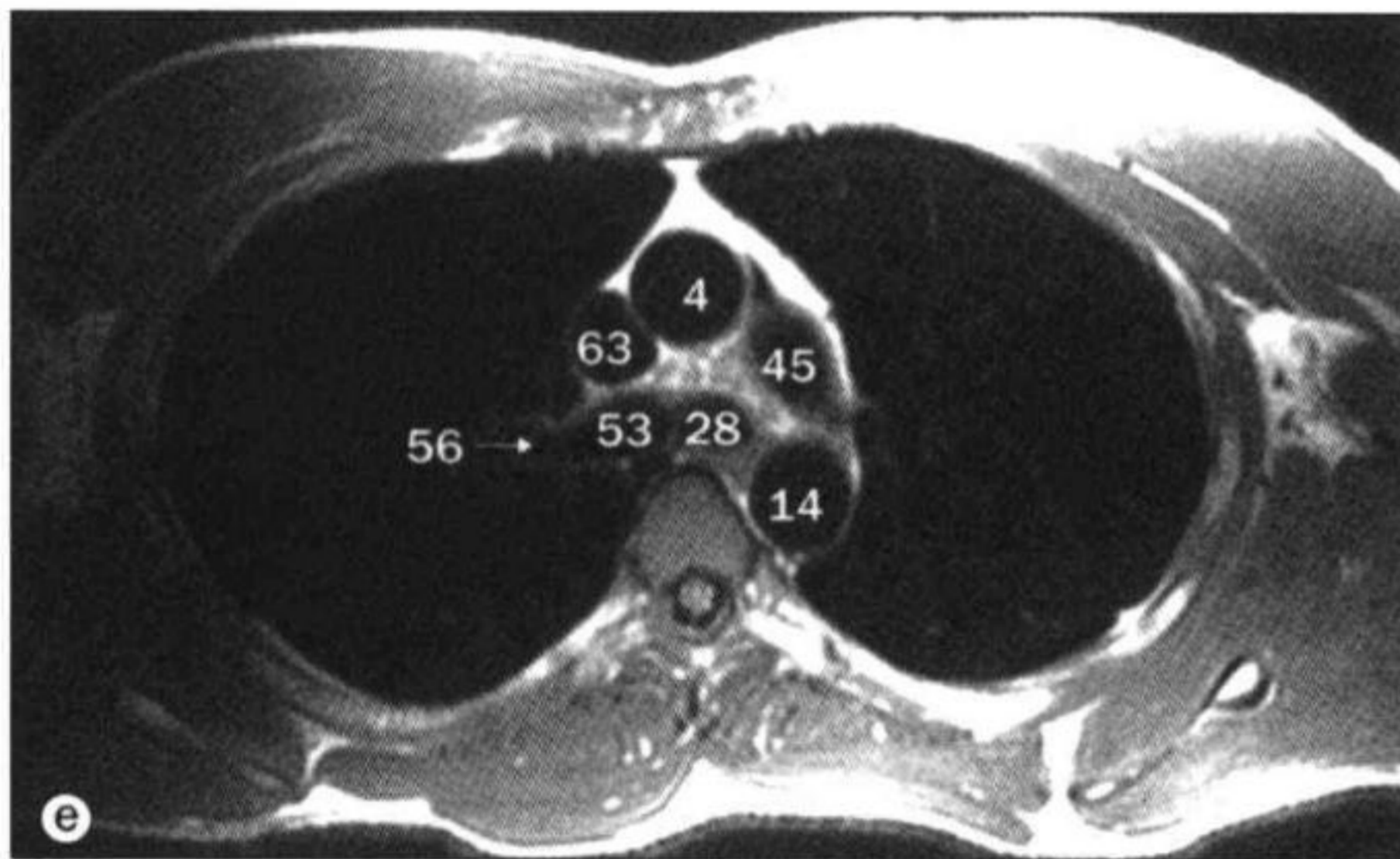
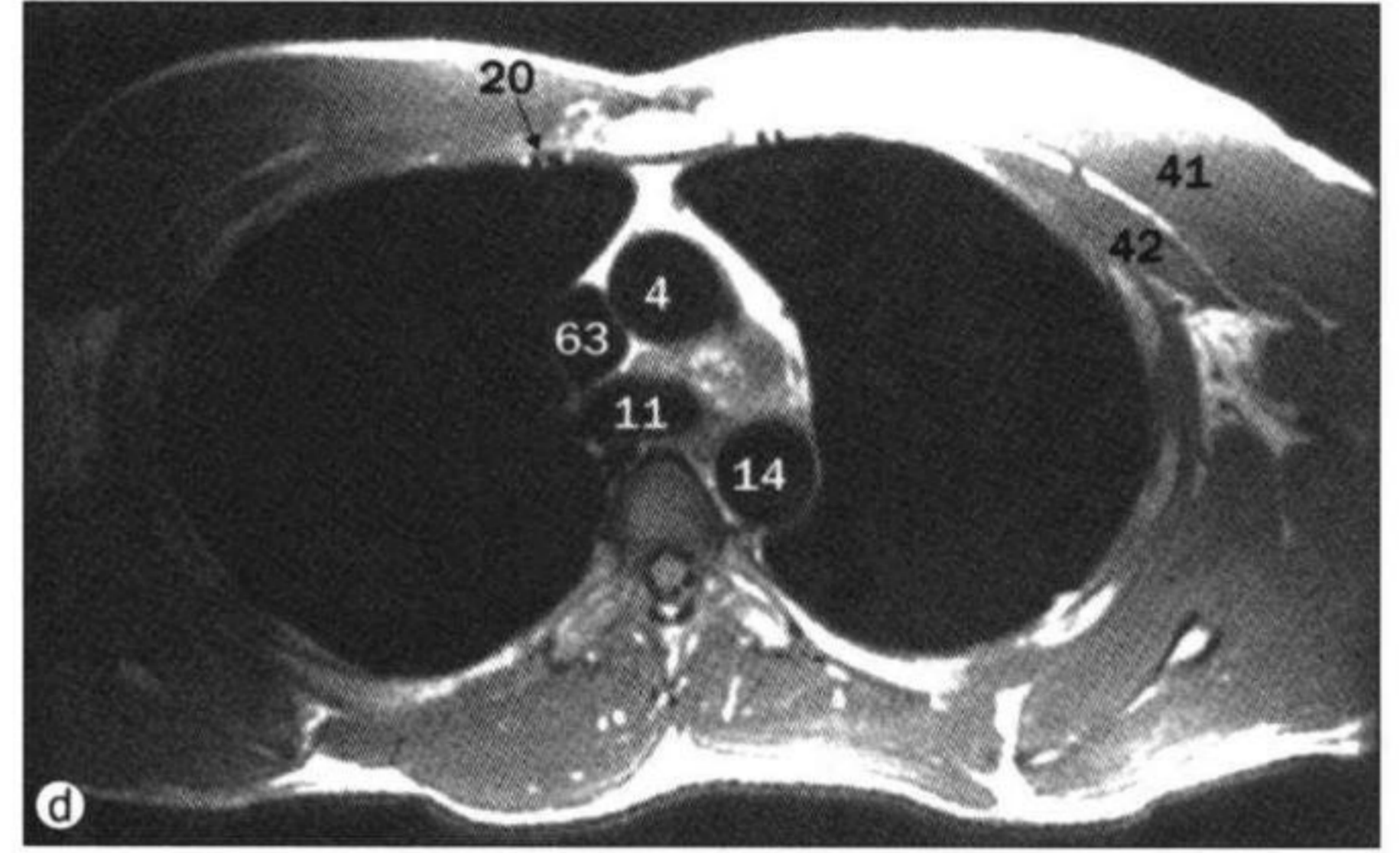
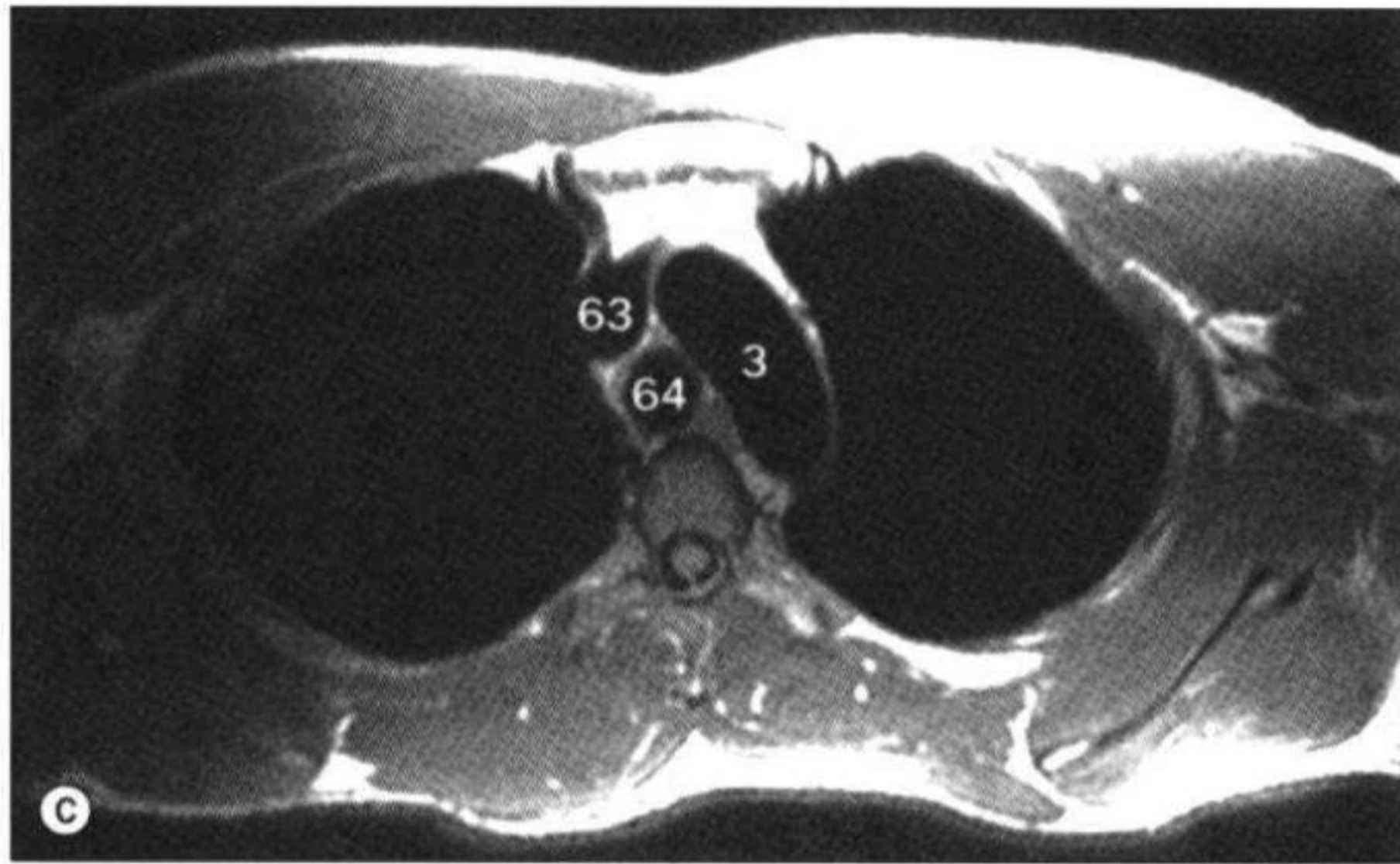
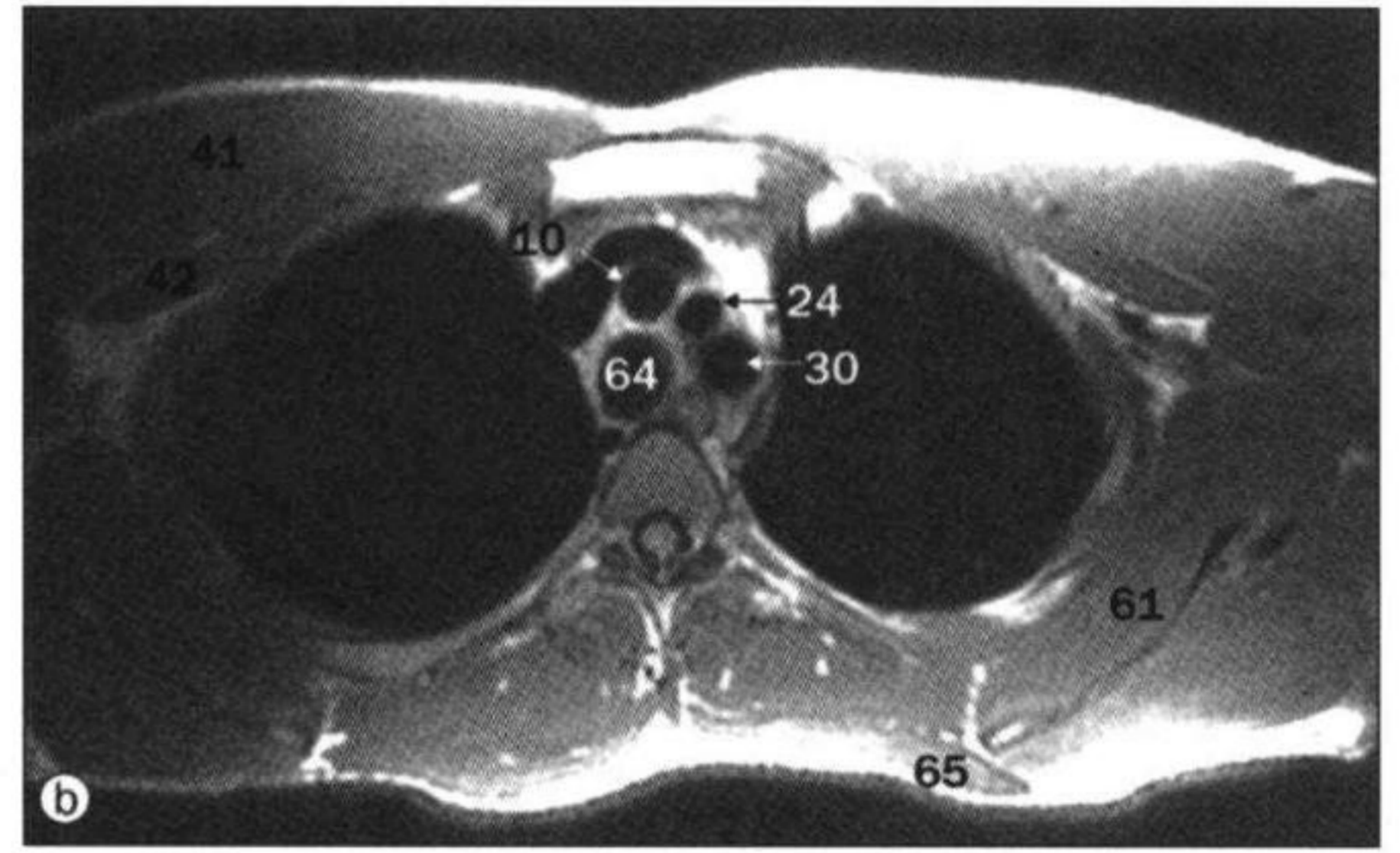
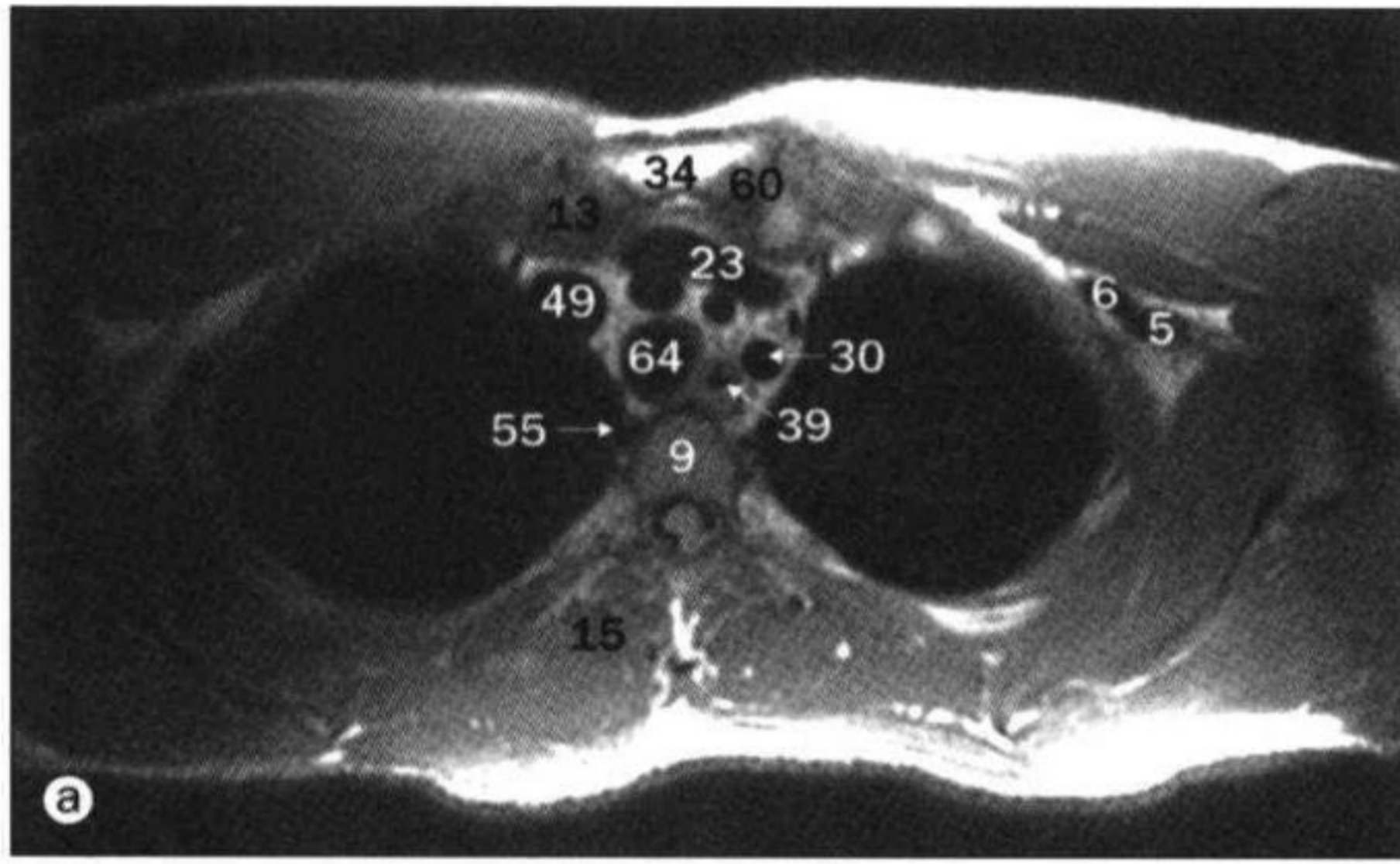
- 1 下叶前底段 anterior basal segment inferior lobe
- 2 前底段支气管 anterior basal segmental bronchus
- 3 上叶前段 anterior segment superior lobe
- 4 主动脉 aorta
- 5 下叶尖段支气管 apical segment inferior lobe bronchus
- 6 奇静脉 azygos vein
- 7 心脏 heart
- 8 半奇静脉 hemiazygos vein
- 9 水平裂 horizontal fissure

- 10 下舌段 inferior lingular segment
- 11 下舌段支气管 inferior lingular segmental bronchus
- 12 下腔静脉 inferior vena cava
- 13 下叶外侧底段 lateral basal segment inferior lobe
- 14 外侧底段支气管 lateral basal segmental bronchus
- 15 中叶外侧段 lateral segment middle lobe
- 16 中叶外侧段支气管 lateral segmental bronchus of middle lobe
- 17 左下叶支气管 left inferior lobe bronchus



18 肝 liver
 19 下叶内侧底段 medial basal segment inferior lobe
 20 内侧底段支气管 medial basal segmental bronchus
 21 中叶内侧段 medial segment middle lobe
 22 中叶内侧段支气管
 medial segmental bronchus of middle lobe
 23 中叶支气管 middle lobe bronchus
 24 斜裂 oblique fissure
 25 下叶后底段 posterior basal segment inferior lobe

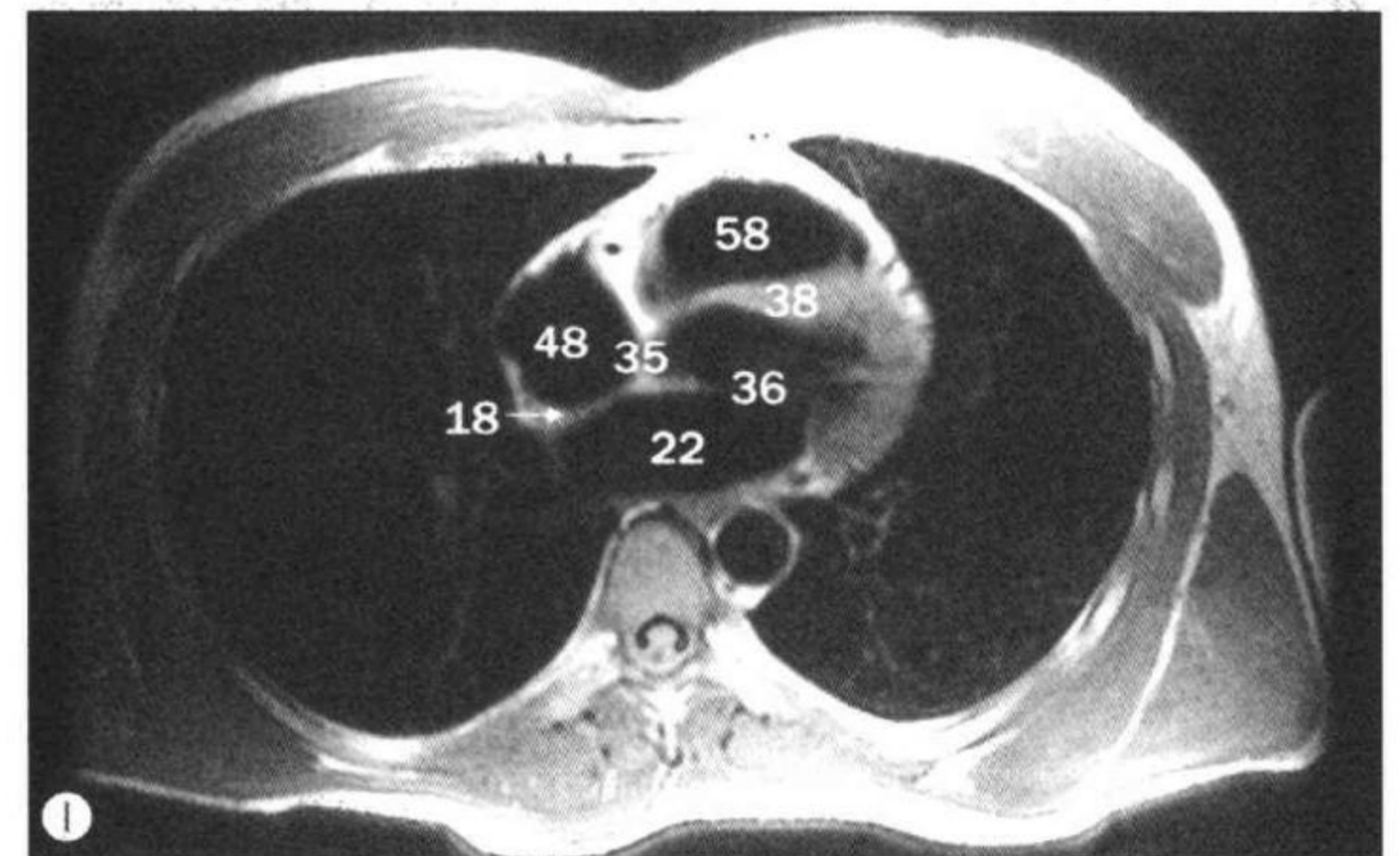
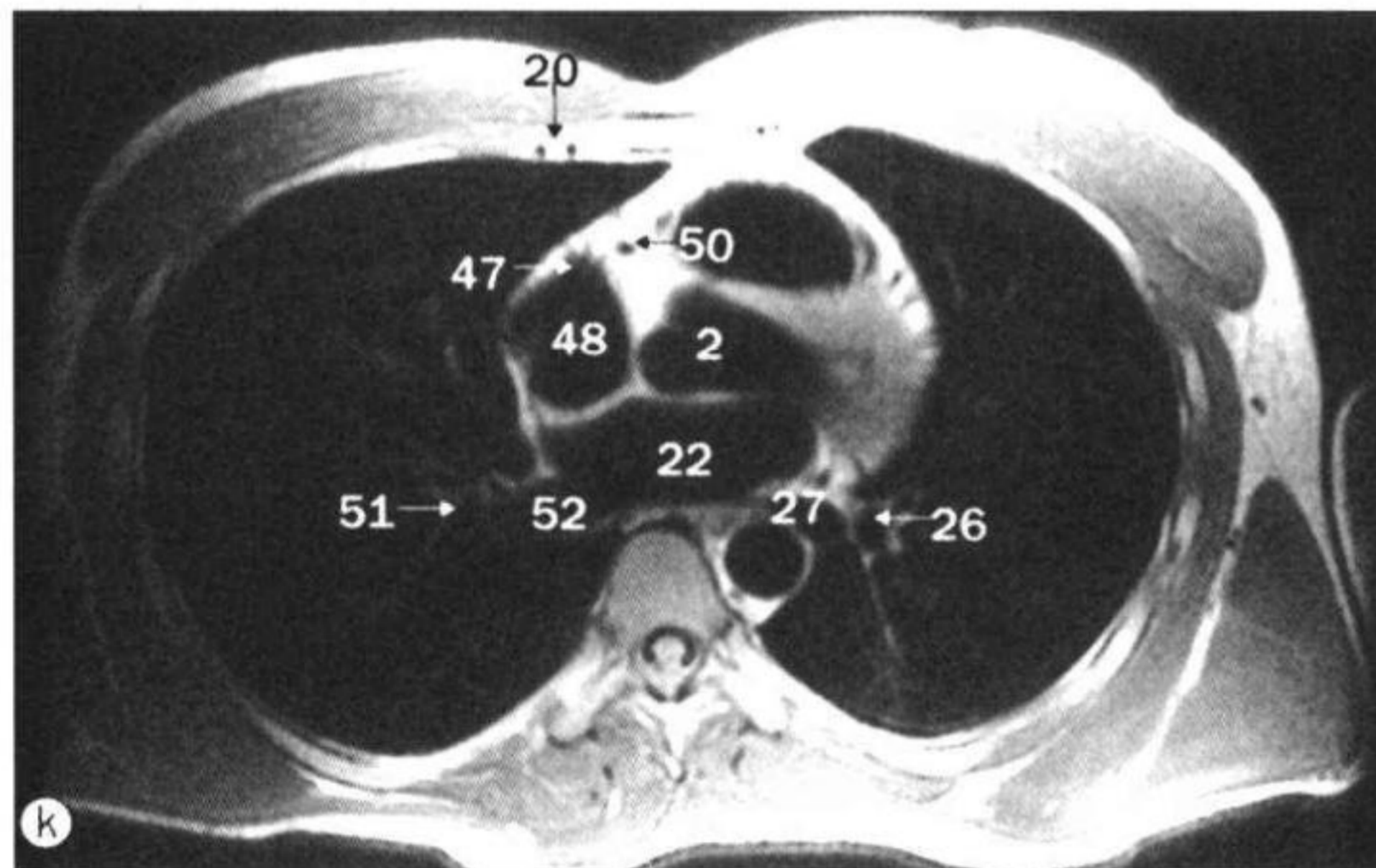
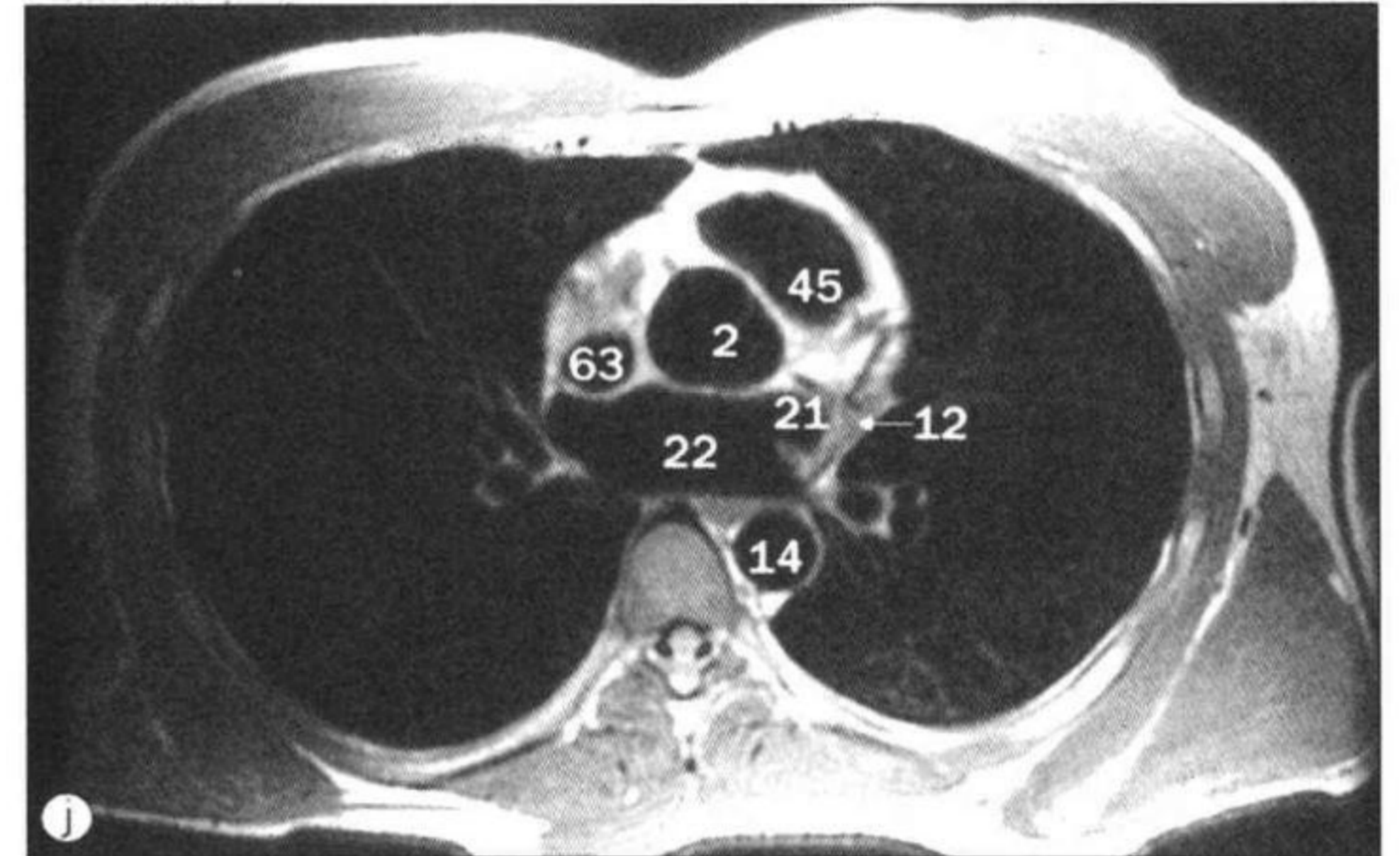
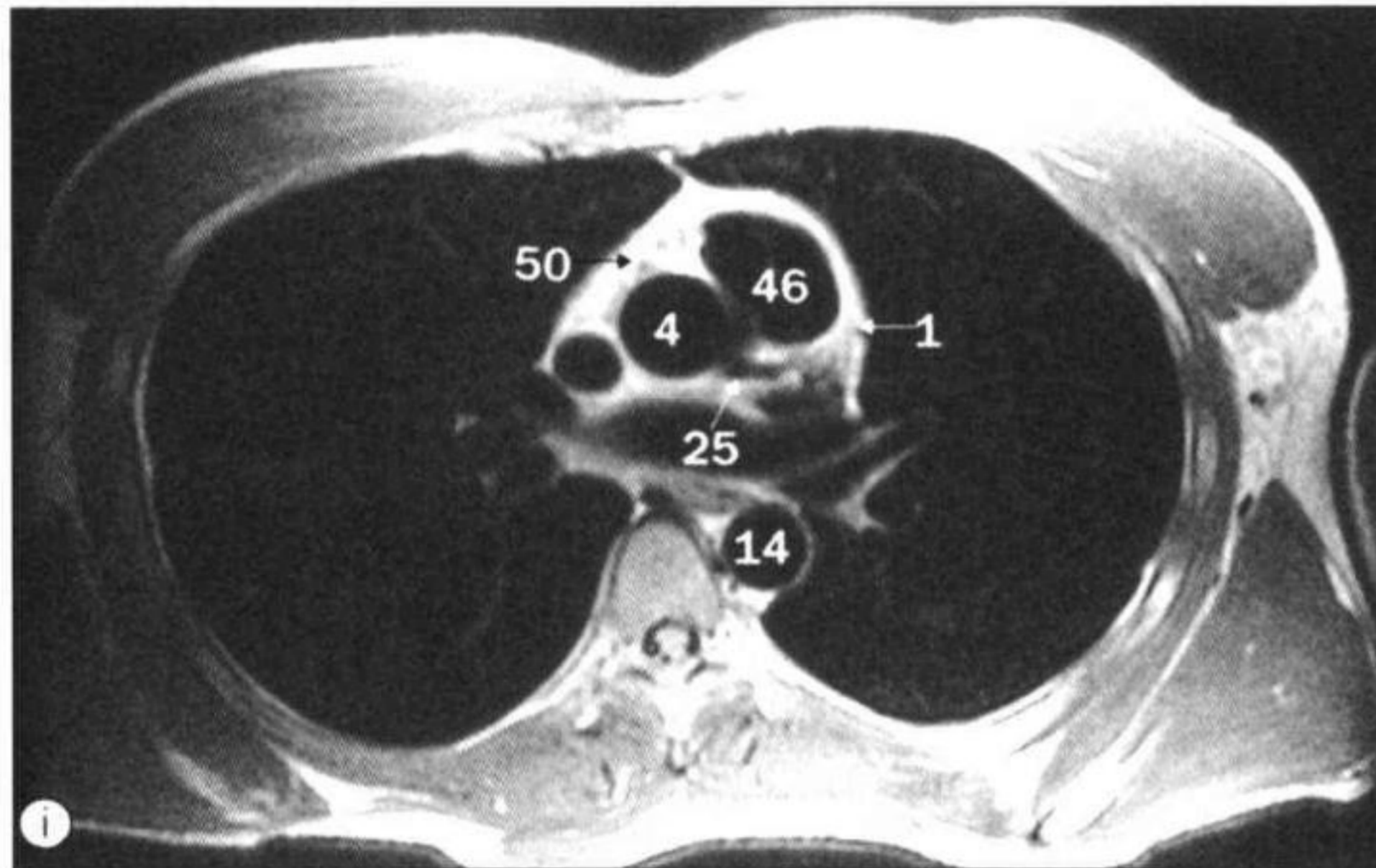
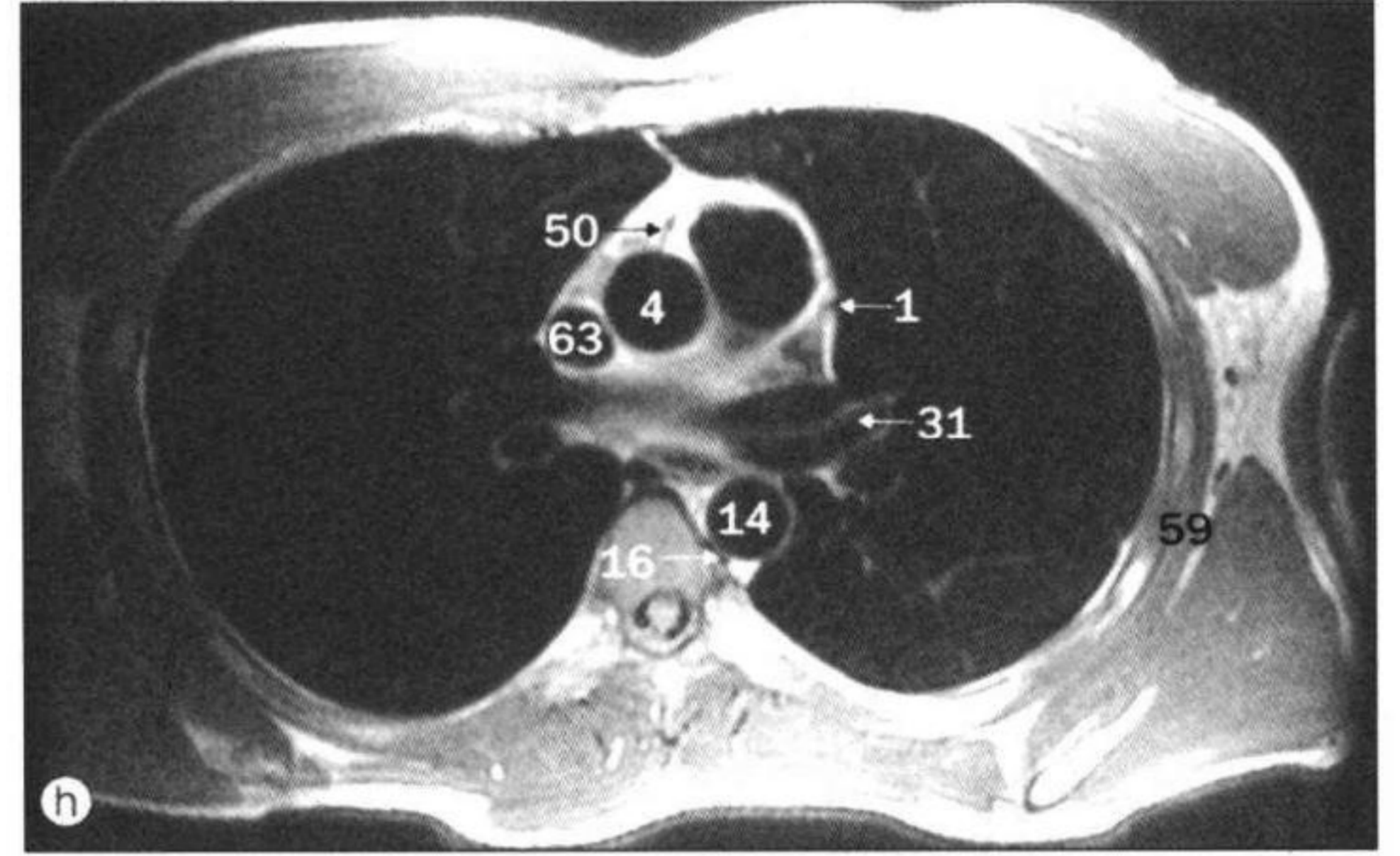
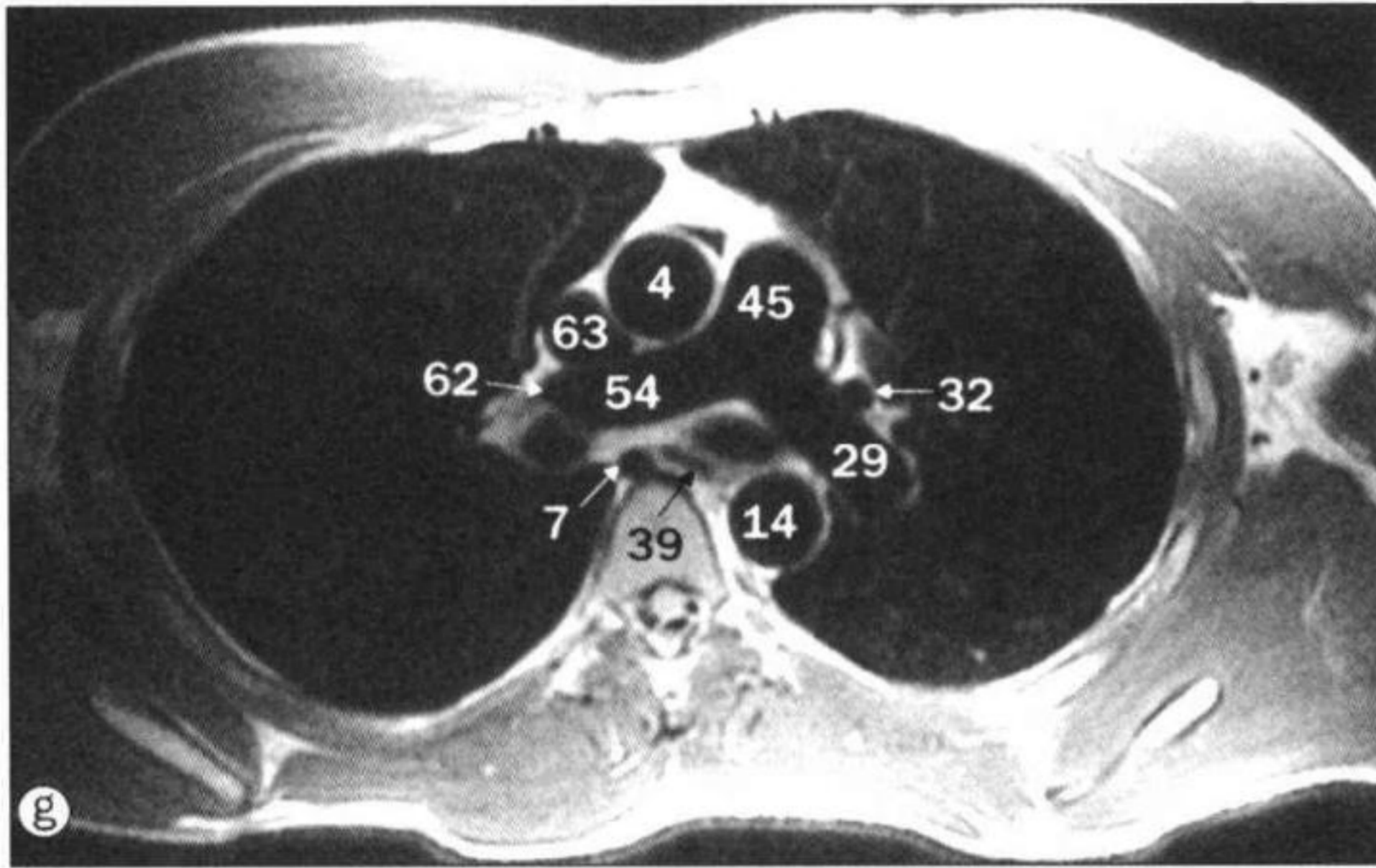
26 后底段支气管 posterior basal segmental bronchus
 27 右下叶支气管 right inferior lobe bronchus
 28 右肺下静脉 right inferior pulmonary vein
 29 右下叶肺动脉 right lower lobe pulmonary artery
 30 脾 spleen
 31 胃 stomach
 32 上舌段 superior lingular segment
 33 上舌段支气管 superior lingular segmental bronchus



a~l. 胸, 轴位 MRI。

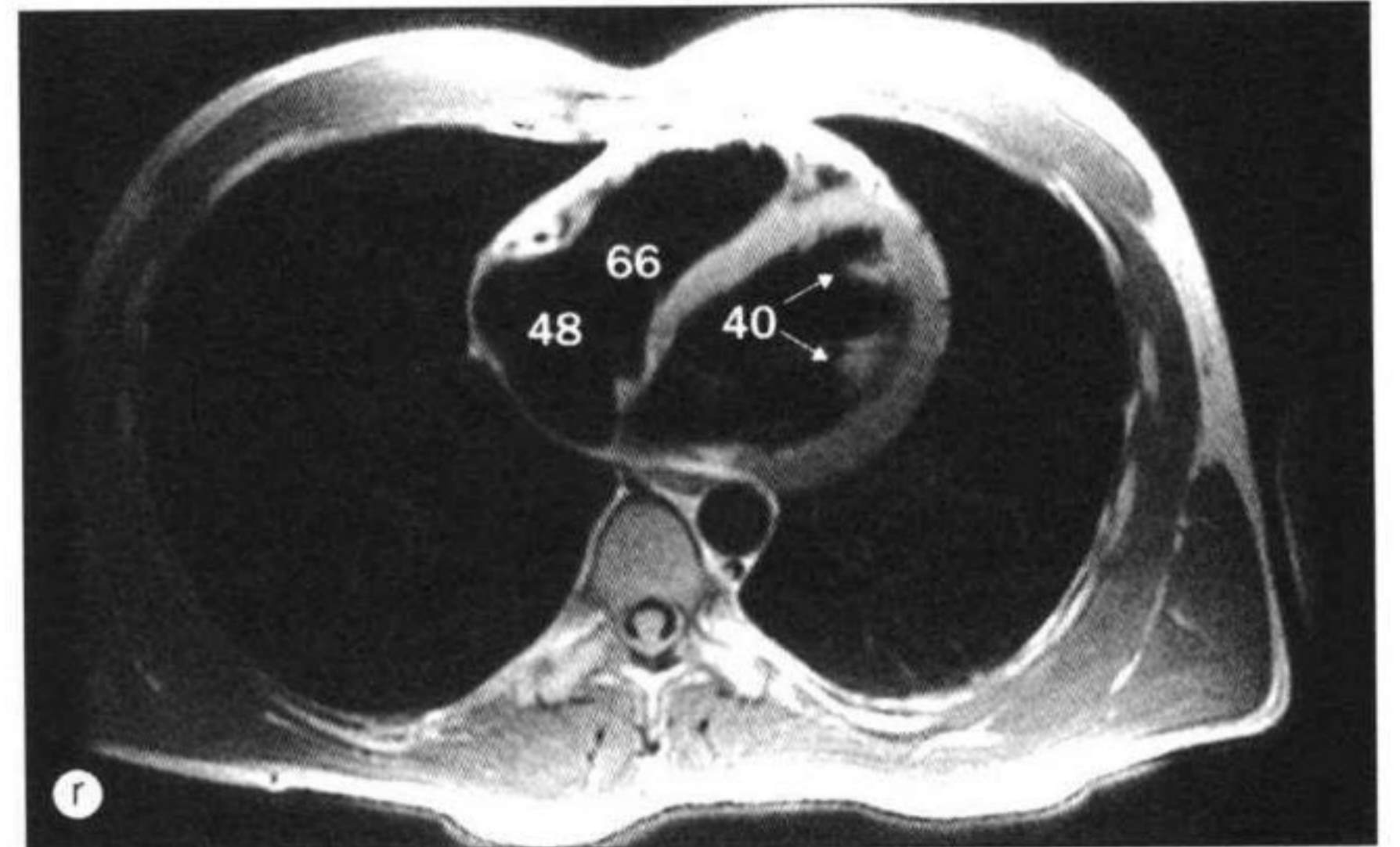
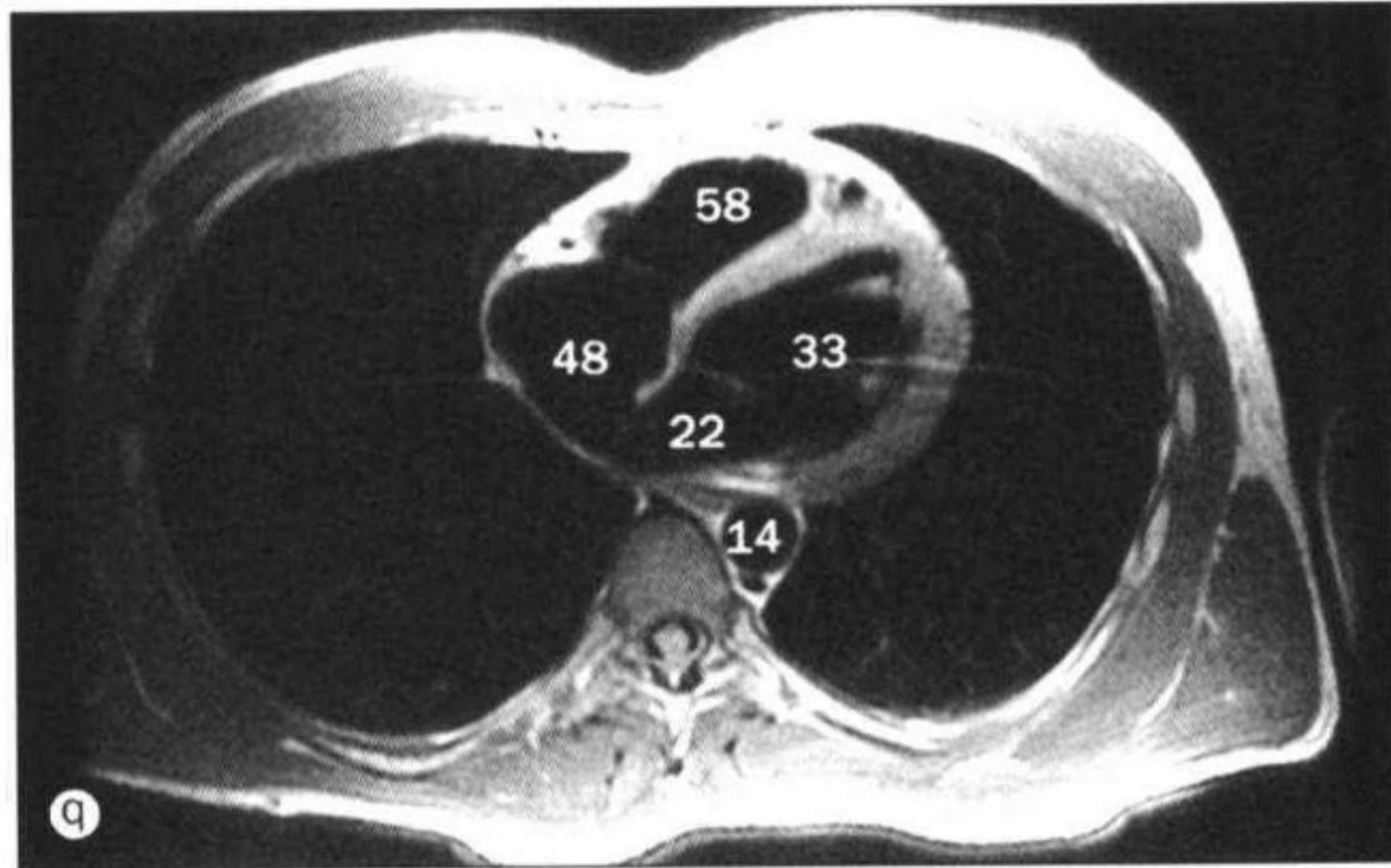
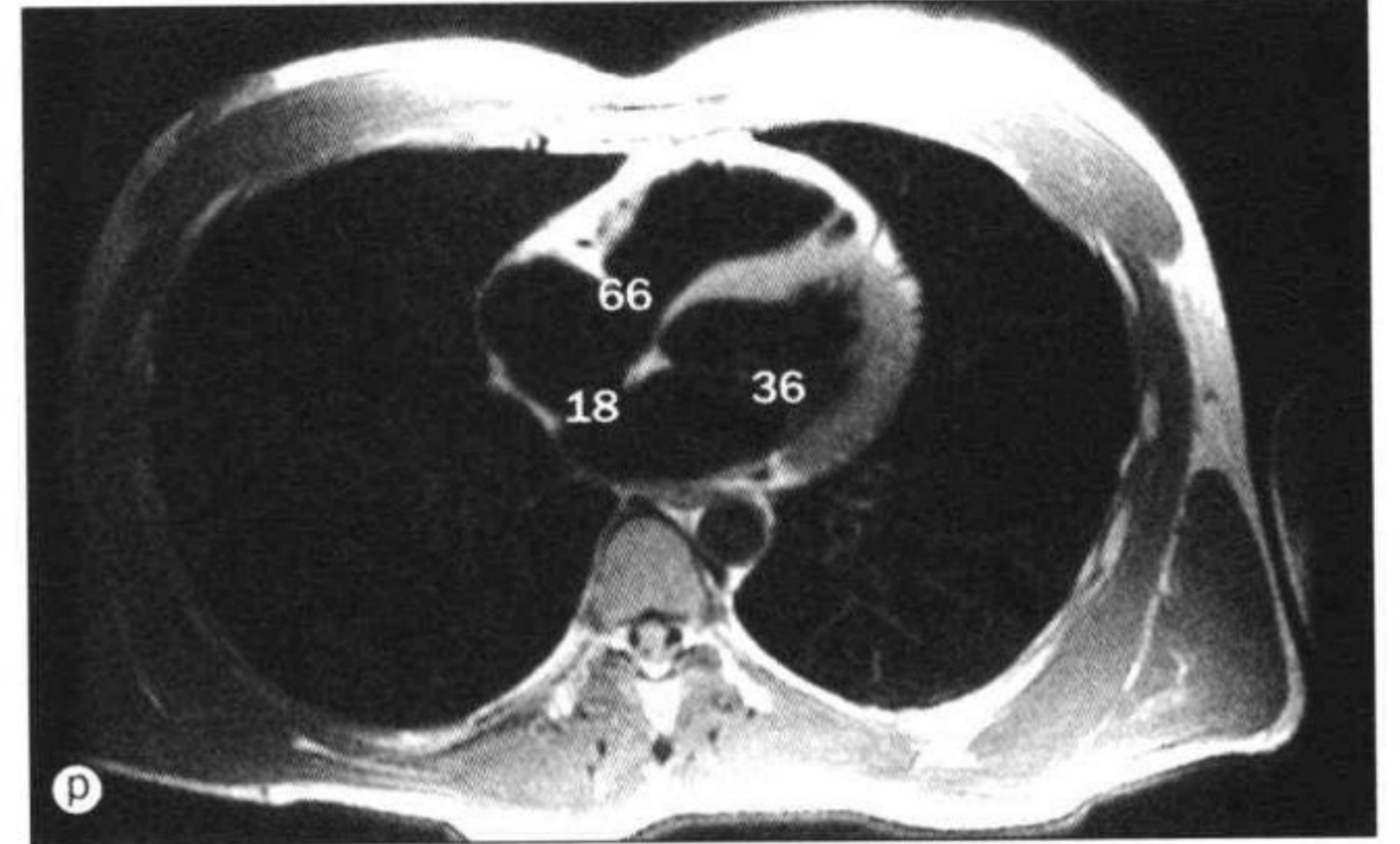
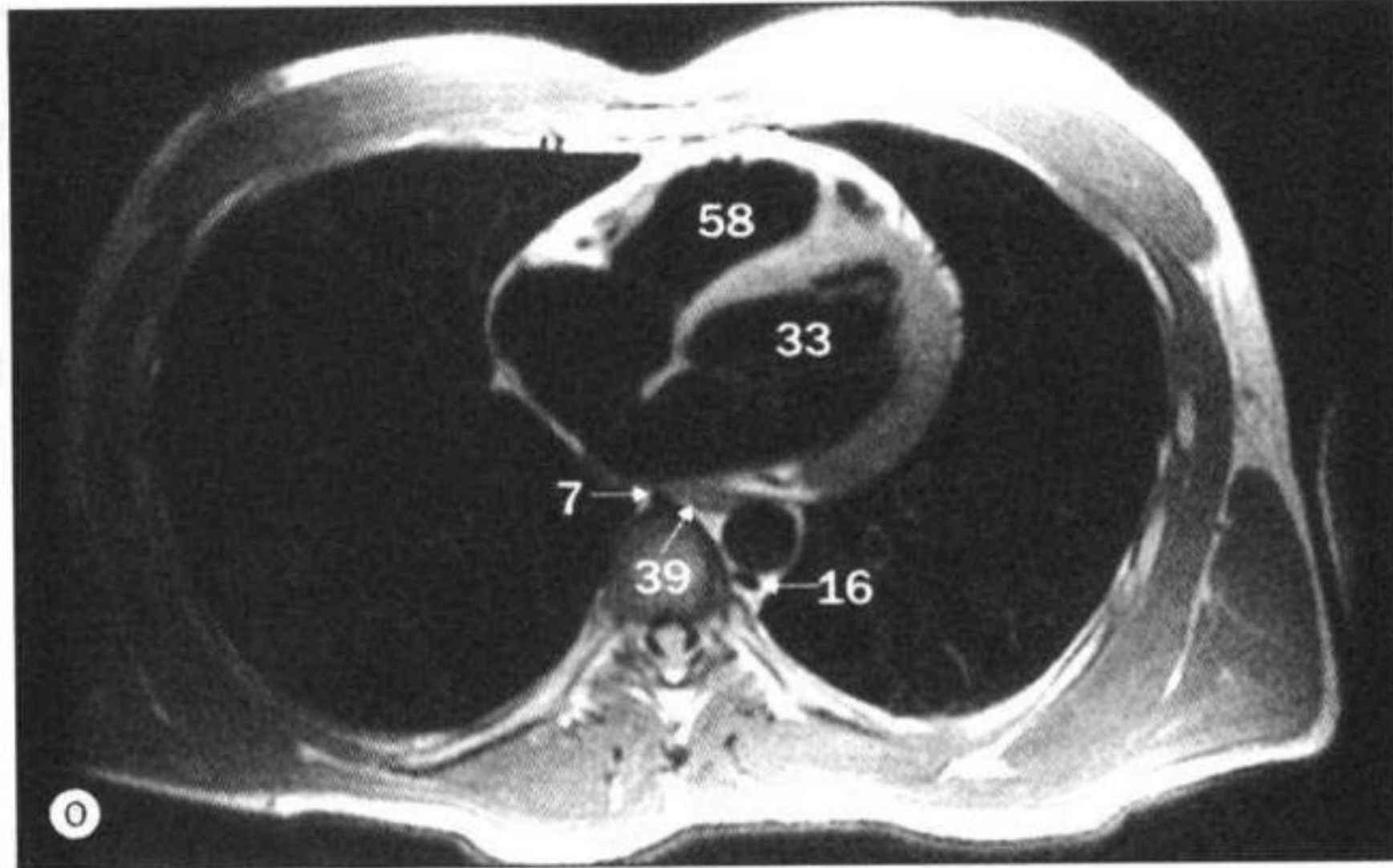
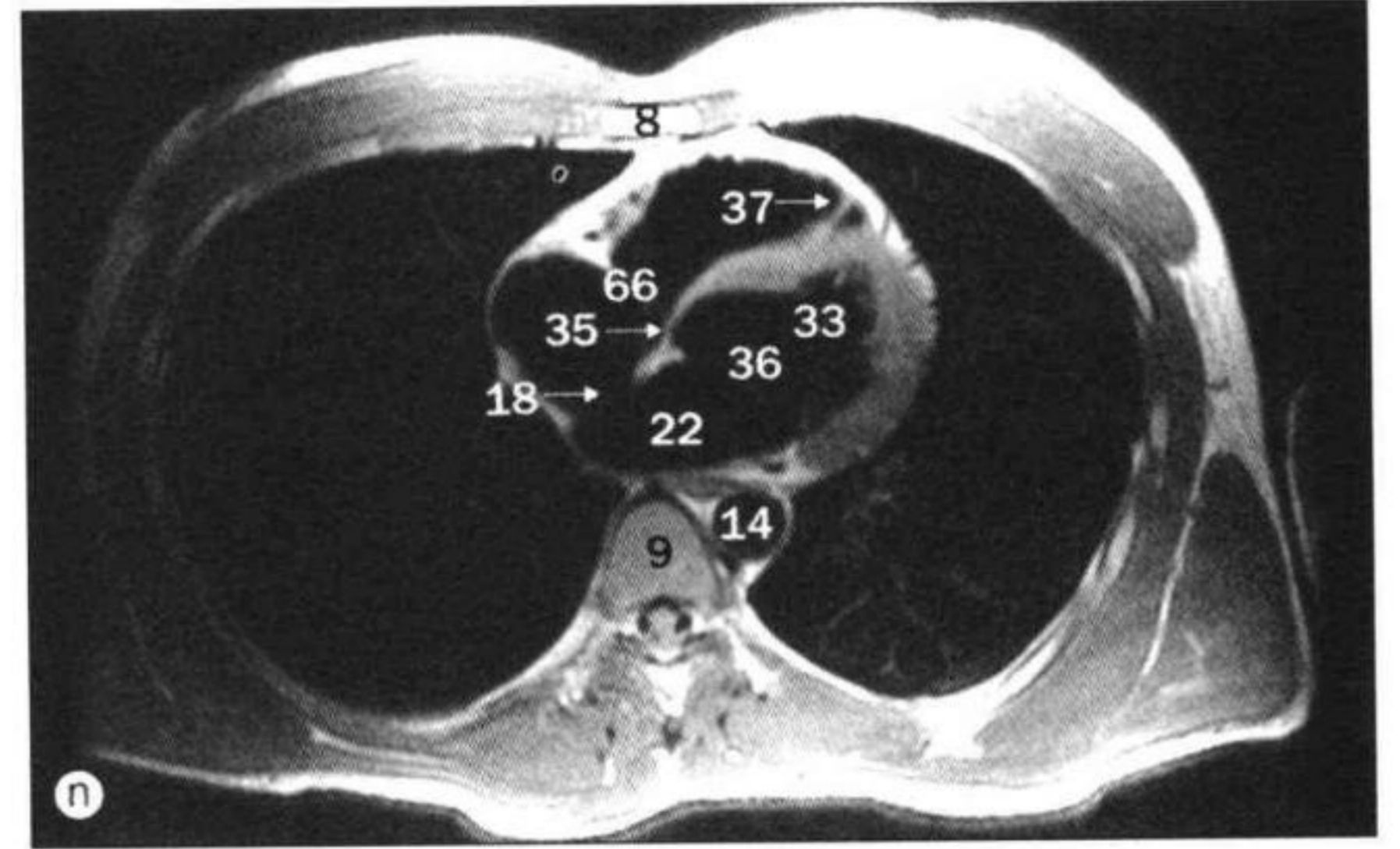
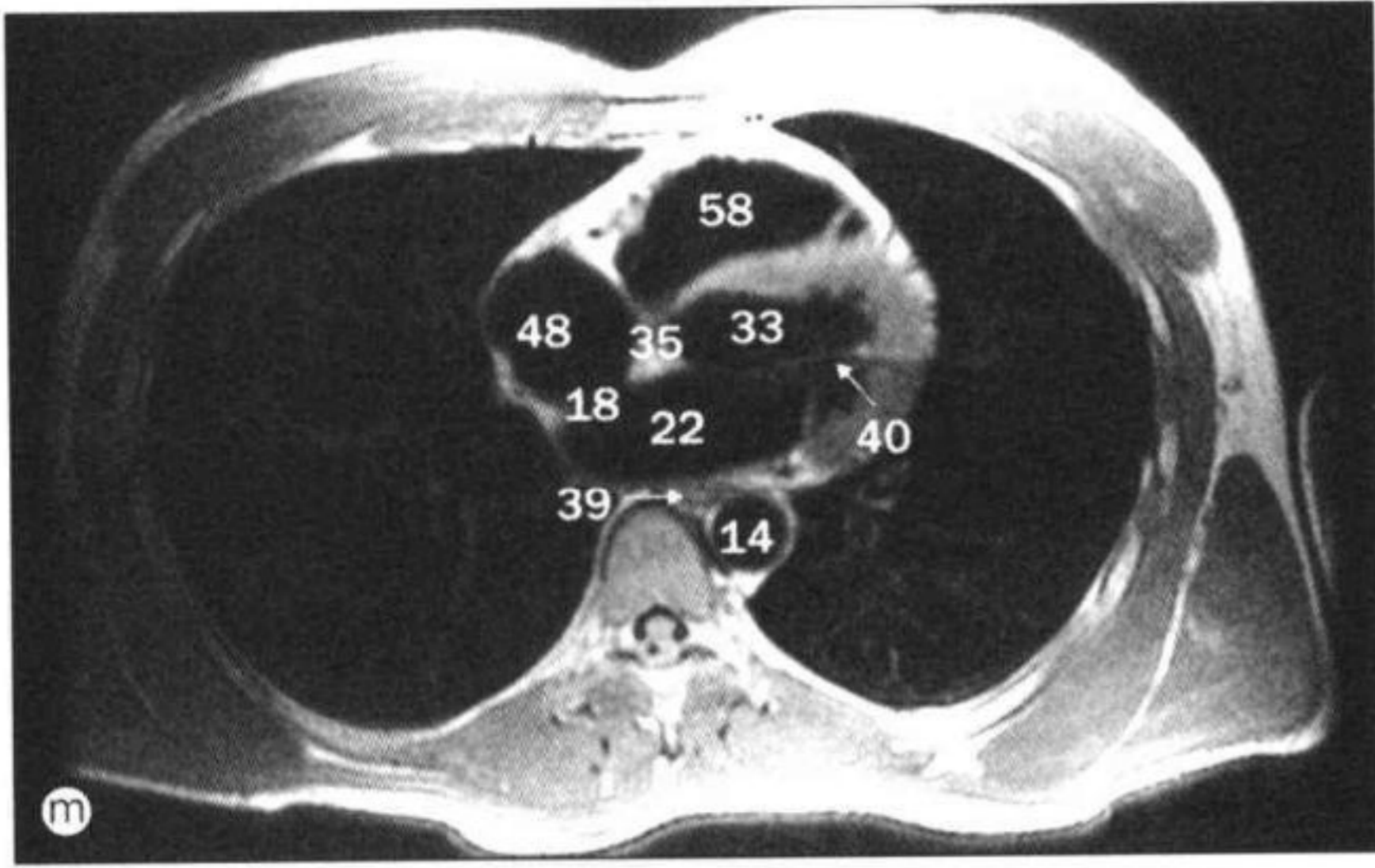
- 1 左冠状动脉前室间支 anterior interventricular branch of left coronary artery
- 2 主动脉瓣 aortic valve
- 3 主动脉弓 arch of aorta
- 4 升主动脉 ascending aorta
- 5 腋动脉 axillary artery
- 6 腋静脉 axillary vein
- 7 奇静脉 azygos vein
- 8 胸骨体 body of sternum
- 9 椎体 body of vertebra
- 10 头臂干 brachiocephalic trunk
- 11 气管隆嵴 (气管杈) carina (bifurcation of trachea)
- 12 左冠状动脉旋支 circumflex branch of left coronary artery
- 13 锁骨 clavicle
- 14 降主动脉 descending aorta
- 15 竖脊肌 erector spinae muscle
- 16 半奇静脉 hemiazygos vein
- 17 下腔静脉 inferior vena cava

- 18 房间隔 interatrial septum
- 19 肋间动脉 intercostal artery
- 20 胸廓内动静脉 internal thoracic artery and vein
- 21 左心耳 left atrial appendage (auricle)
- 22 左心房 left atrium
- 23 左头臂静脉 left brachiocephalic vein
- 24 左颈总动脉 left common carotid artery
- 25 左冠状动脉 left coronary artery
- 26 左下叶支气管 left inferior lobe bronchus
- 27 左肺下静脉 left inferior pulmonary vein
- 28 左主支气管 left main bronchus
- 29 左肺动脉 left pulmonary artery
- 30 左锁骨下动脉 left subclavian artery
- 31 左上叶支气管 left superior lobe bronchus
- 32 左肺上静脉 left superior pulmonary vein
- 33 左心室腔 left ventricular cavity
- 34 胸骨柄 manubrium of sternum
- 35 室间隔膜部 membranous interventricular septum



36 二尖瓣 mitral valve
 37 节制索 moderator band
 38 室间隔肌部 muscular interventricular septum
 39 食管 oesophagus
 40 乳头肌 papillary muscles
 41 胸大肌 pectoralis major muscle
 42 胸小肌 pectoralis minor muscle
 43 心包隐窝 pericardial recess
 44 心包 pericardium
 45 肺动脉干 pulmonary trunk
 46 肺动脉瓣 pulmonary valve
 47 右心耳 right atrial appendage (auricle)
 48 右心房 right atrium
 49 右头臂静脉 right brachiocephalic vein
 50 右冠状动脉 right coronary artery
 51 右下叶支气管 right inferior lobe bronchus

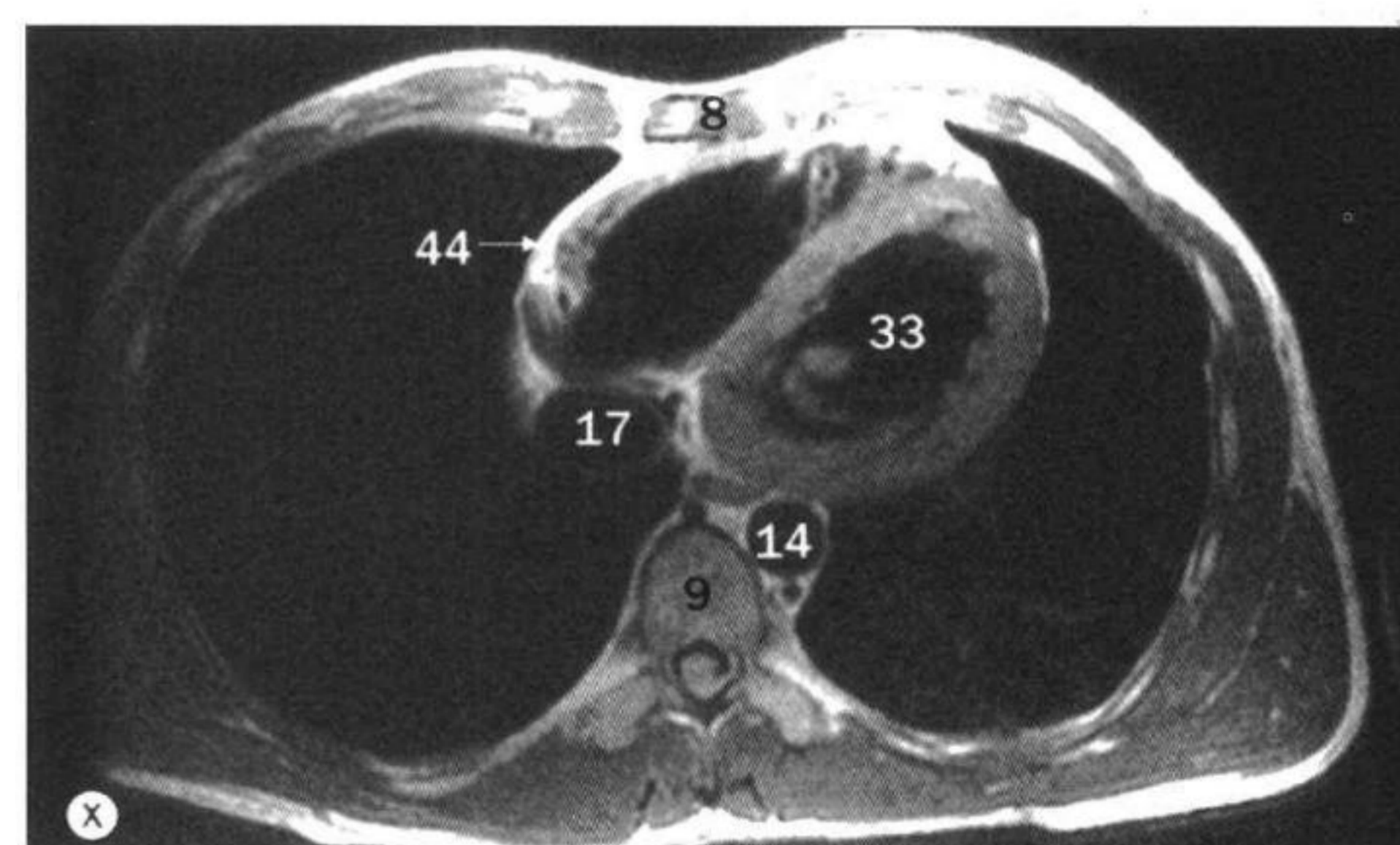
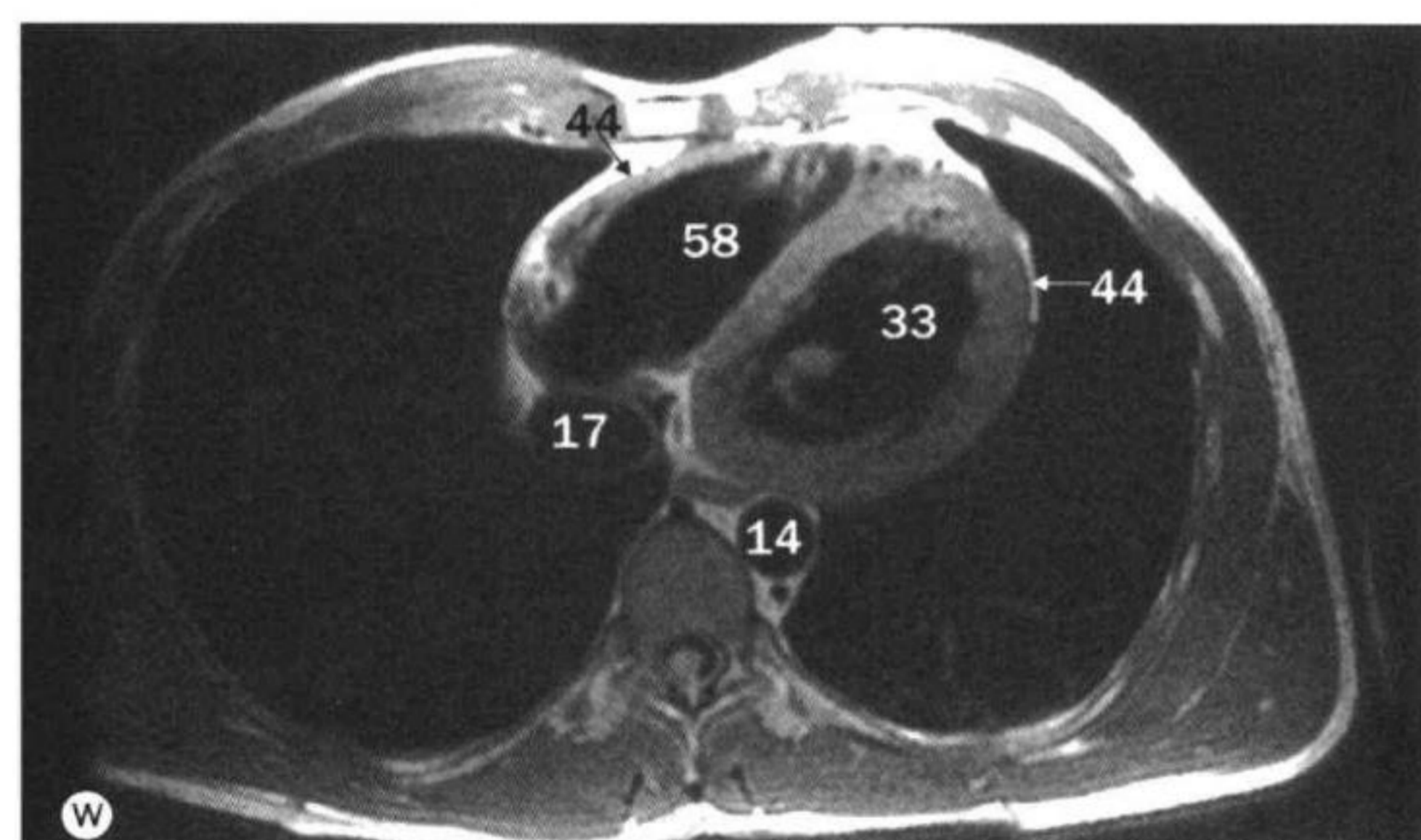
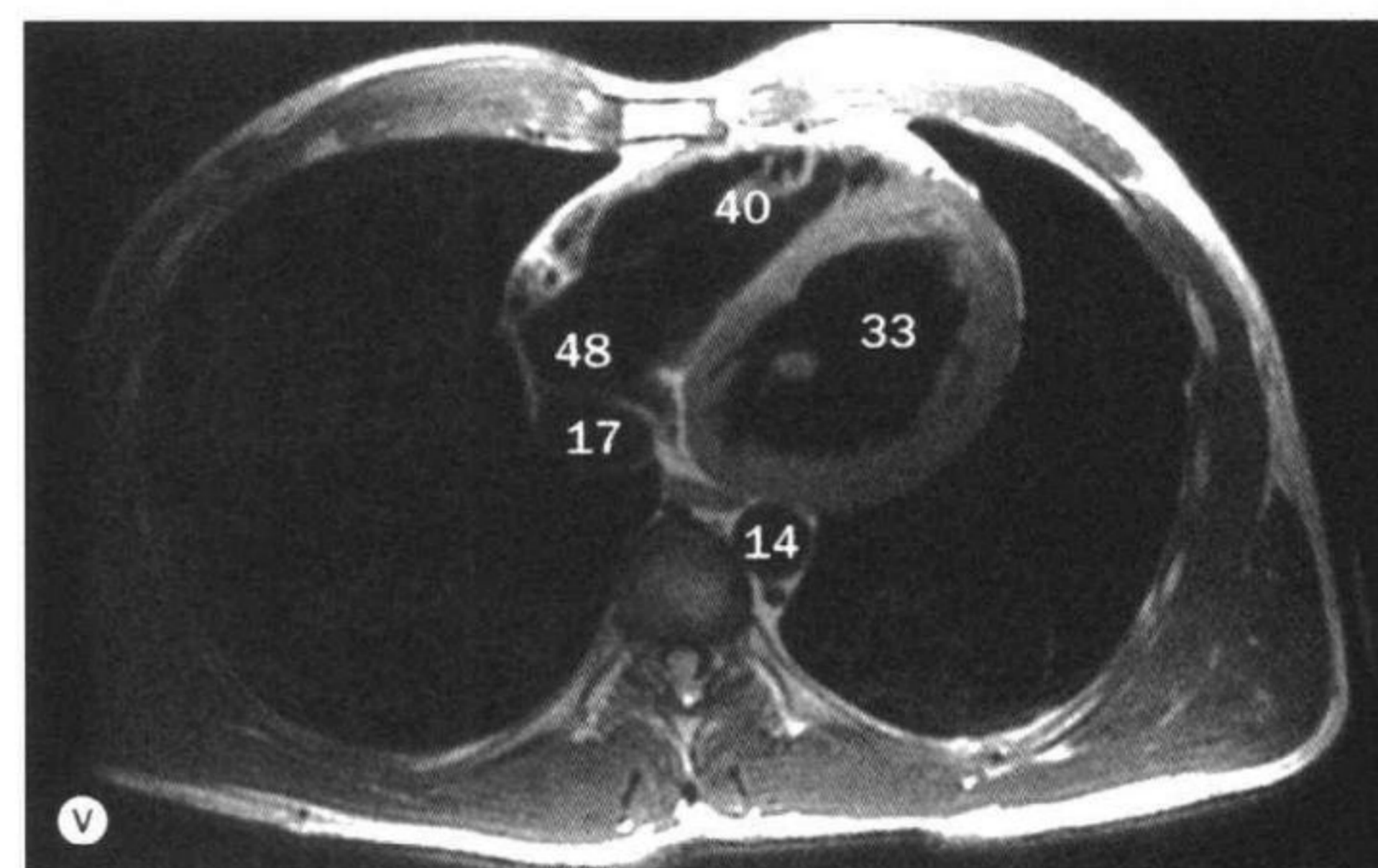
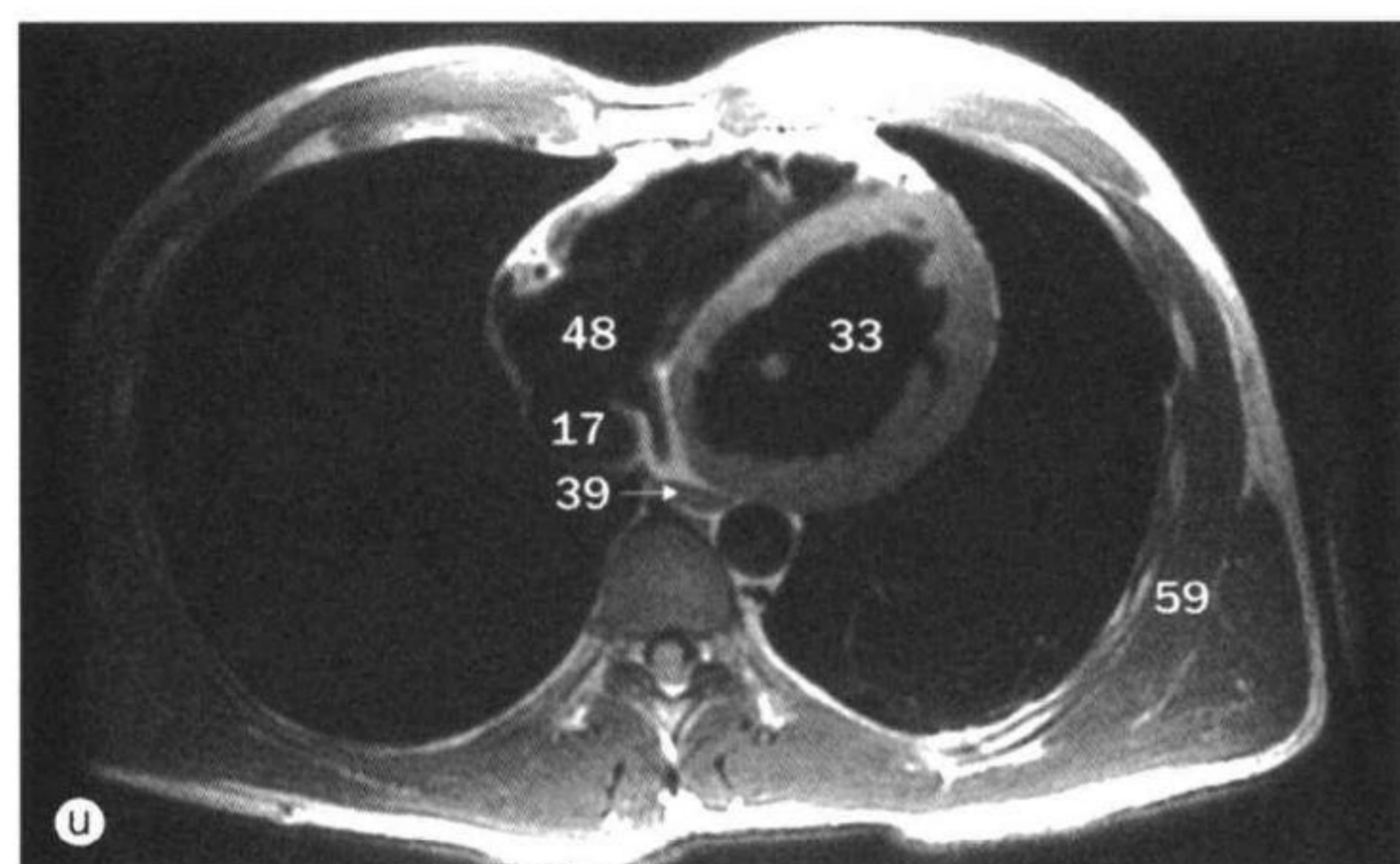
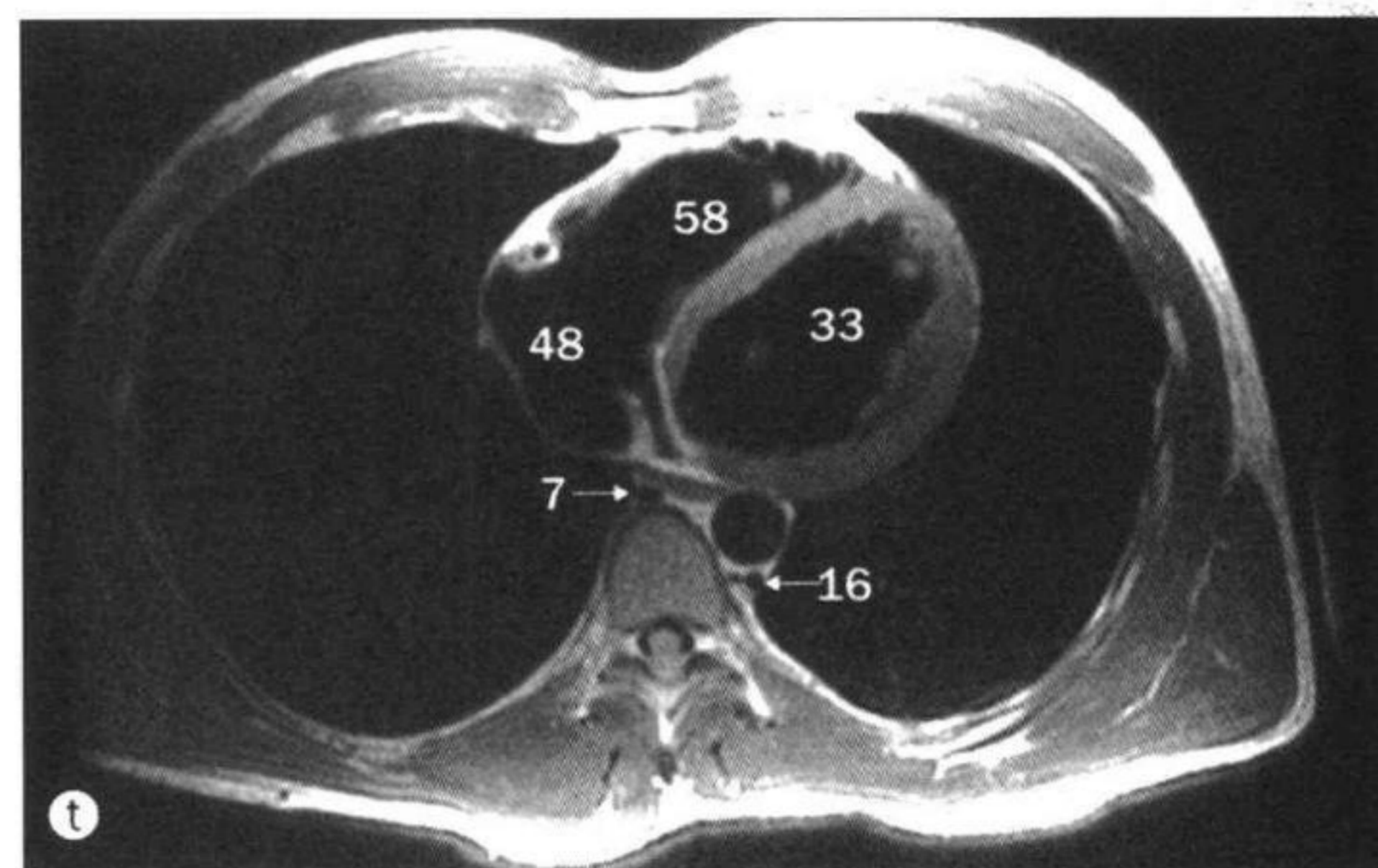
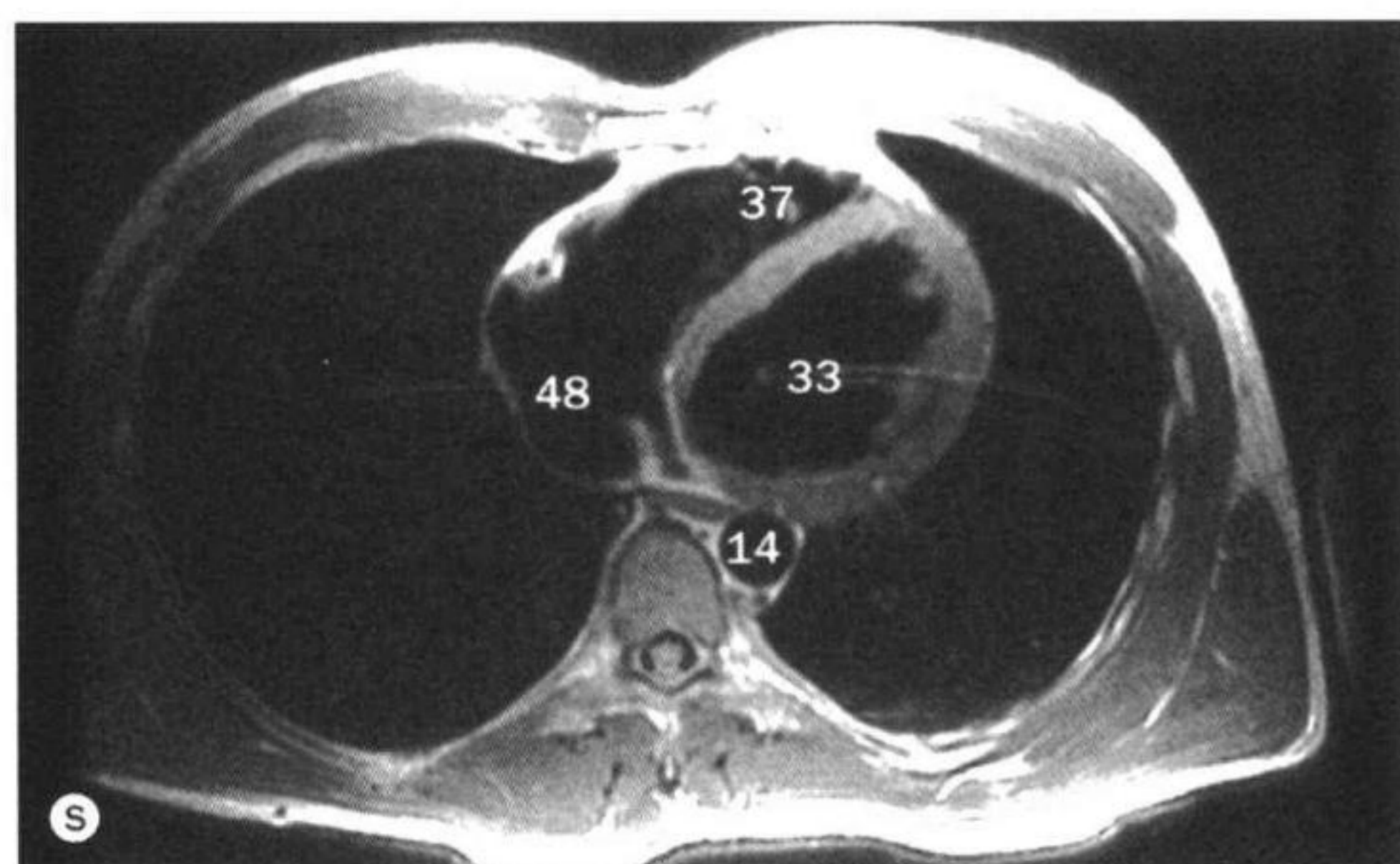
52 右肺下静脉 right inferior pulmonary vein
 53 右主支气管 right main bronchus
 54 右肺动脉 right pulmonary artery
 55 右肋间上静脉 right superior intercostal vein
 56 右上叶支气管 right superior lobe bronchus
 57 右肺上静脉 right superior pulmonary vein
 58 右心室腔 right ventricular cavity
 59 前锯肌 serratus anterior muscle
 60 胸锁关节 sternoclavicular joint
 61 肩胛下肌 subscapularis muscle
 62 右肺动脉上叶支
 superior lobe branch of right pulmonary artery
 63 上腔静脉 superior vena cava
 64 气管 trachea
 65 斜方肌 trapezius muscle
 66 三尖瓣 tricuspid valve



m~x. 胸, 轴位 MRI。

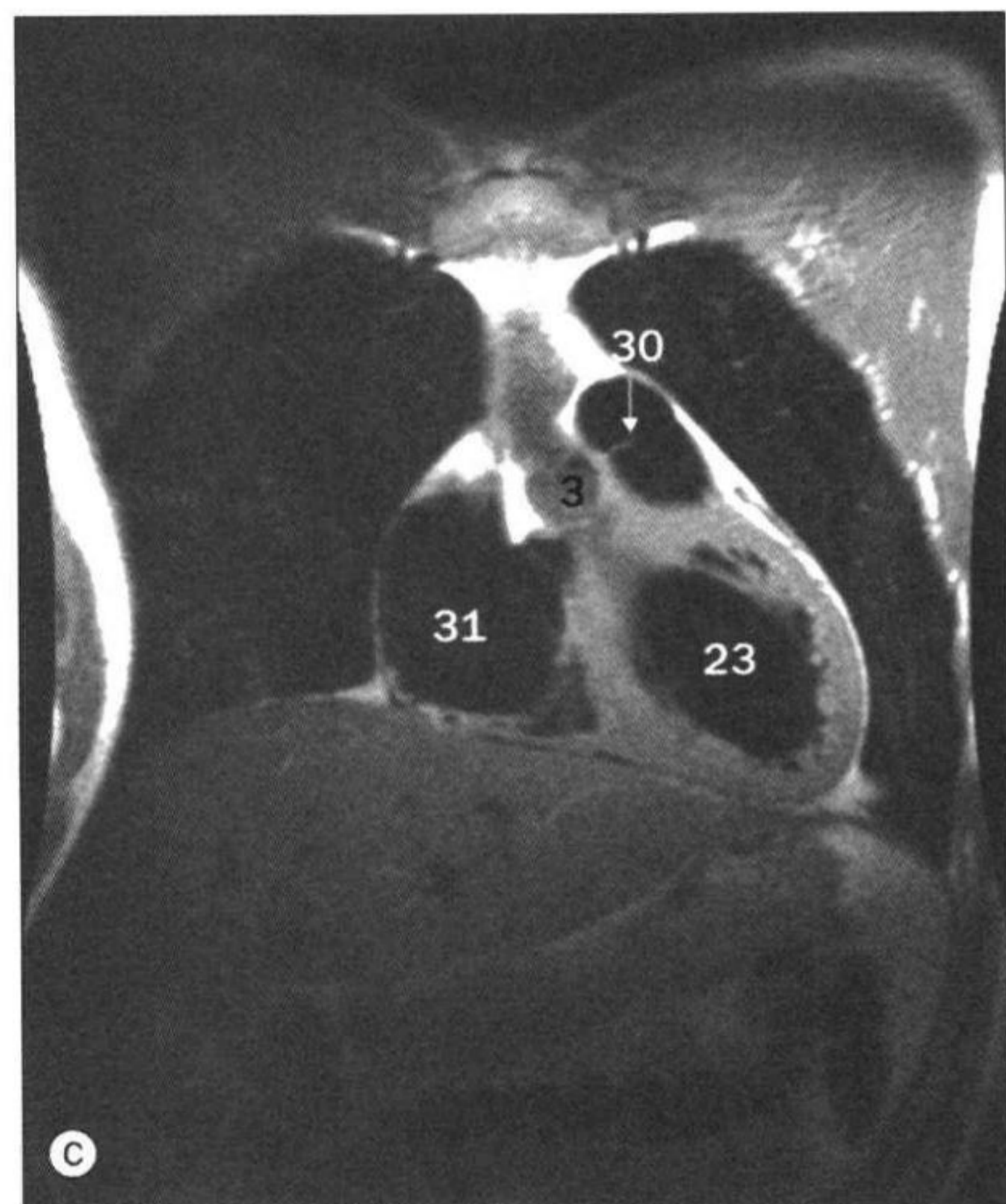
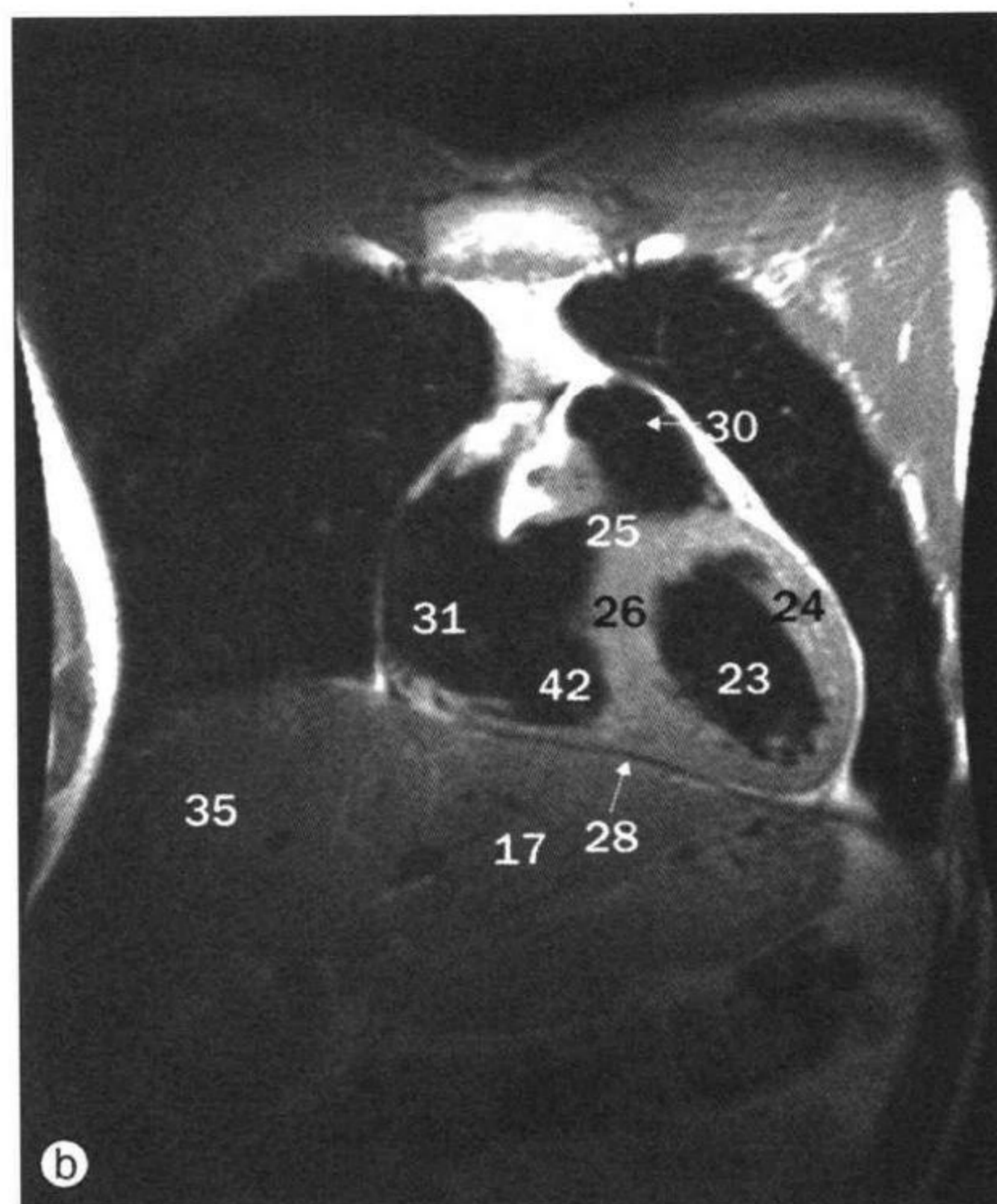
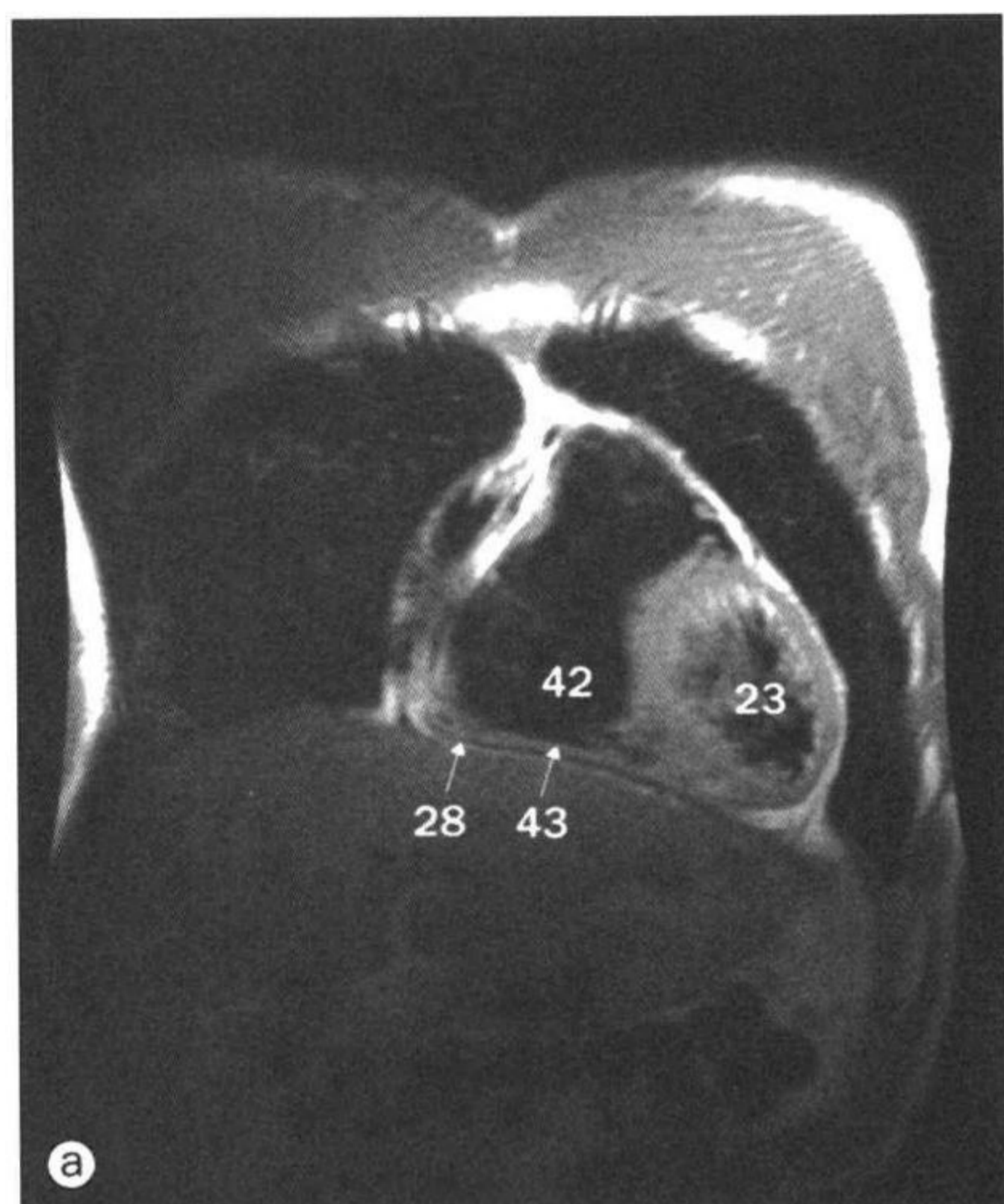
- 1 左冠状动脉前室间支
anterior interventricular branch of left coronary artery
- 2 主动脉瓣 aortic valve
- 3 主动脉弓 (主动脉结节)
arch of aorta (aortic knuckle or knob)
- 4 升主动脉 ascending aorta
- 5 腋动脉 axillary artery
- 6 腋静脉 axillary vein
- 7 奇静脉 azygos vein
- 8 胸骨体 body of sternum
- 9 椎体 body of vertebra
- 10 头臂干 brachiocephalic trunk
- 11 气管隆嵴 (气管杈) carina (bifurcation of trachea)
- 12 左冠状动脉旋支
circumflex branch of left coronary artery
- 13 锁骨 clavicle
- 14 降主动脉 descending aorta
- 15 竖脊肌 erector spinae muscle
- 16 半奇静脉 hemiazygos vein

- 17 下腔静脉 inferior vena cava
- 18 房间隔 interatrial septum
- 19 肋间动脉 intercostal artery
- 20 胸廓内动静脉 internal thoracic artery and vein
- 21 左心耳 left atrial appendage (auricle)
- 22 左心房 left atrium
- 23 左头臂静脉 left brachiocephalic vein
- 24 左颈总动脉 left common carotid artery
- 25 左冠状动脉 left coronary artery
- 26 左下叶支气管 left inferior lobe bronchus
- 27 左肺下静脉 left inferior pulmonary vein
- 28 左主支气管 left main bronchus
- 29 左肺动脉 left pulmonary artery
- 30 左锁骨下动脉 left subclavian artery
- 31 左上叶支气管 left superior lobe bronchus
- 32 左肺上静脉 left superior pulmonary vein
- 33 左心室腔 left ventricular cavity
- 34 胸骨柄 manubrium of sternum
- 35 室间隔膜部 membranous interventricular septum



- 36 二尖瓣 mitral valve
- 37 节制索 moderator band
- 38 室间隔肌部 muscular interventricular septum
- 39 食管 oesophagus
- 40 乳头肌 papillary muscles
- 41 胸大肌 pectoralis major muscle
- 42 胸小肌 pectoralis minor muscle
- 43 心包隐窝 pericardial recess
- 44 心包 pericardium
- 45 肺动脉干 pulmonary trunk
- 46 肺动脉瓣 pulmonary valve
- 47 右心耳 right atrial appendage (auricle)
- 48 右心房 right atrium
- 49 右头臂静脉 right brachiocephalic vein
- 50 右冠状动脉 right coronary artery
- 51 右下叶支气管 right inferior lobe bronchus

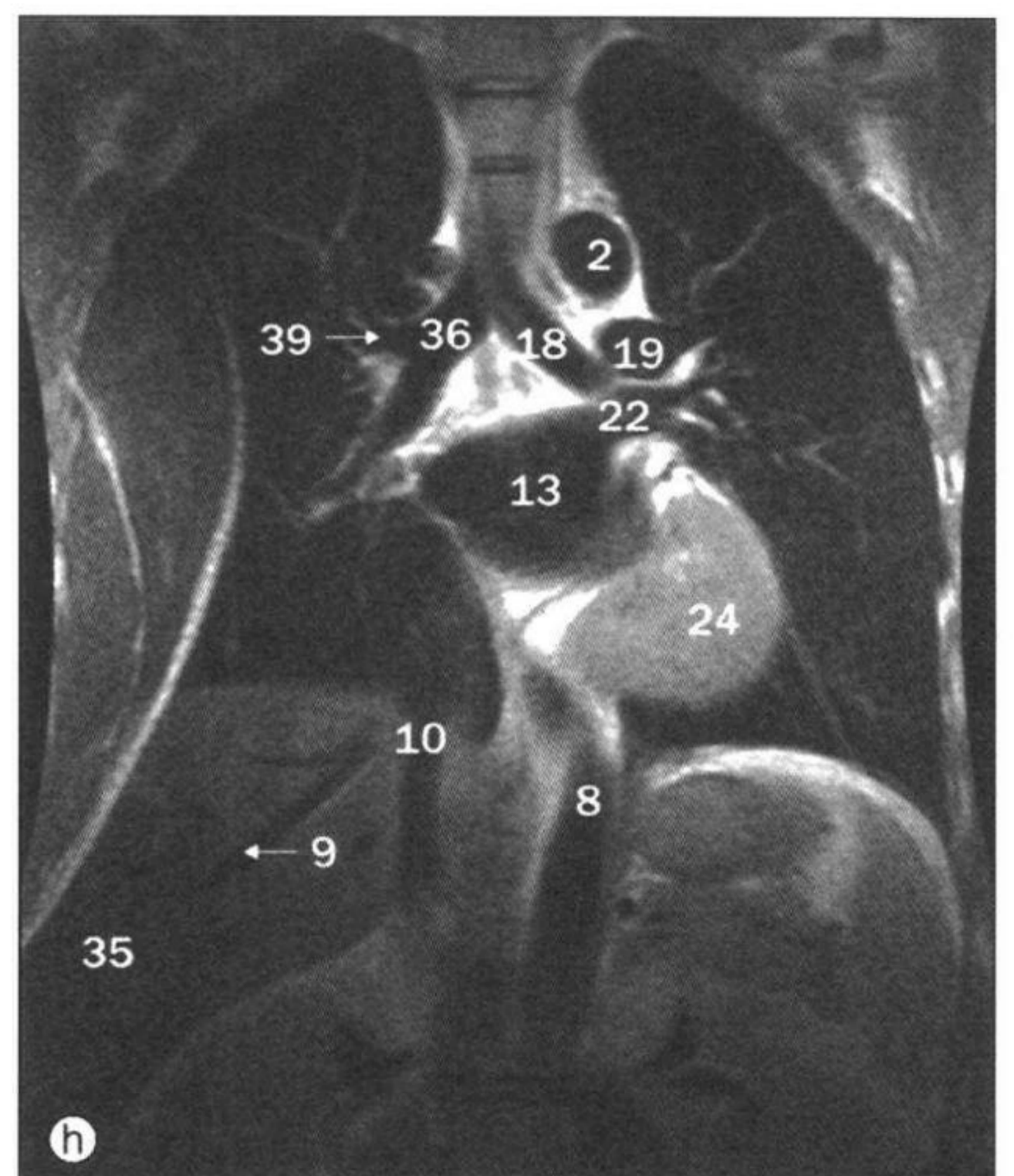
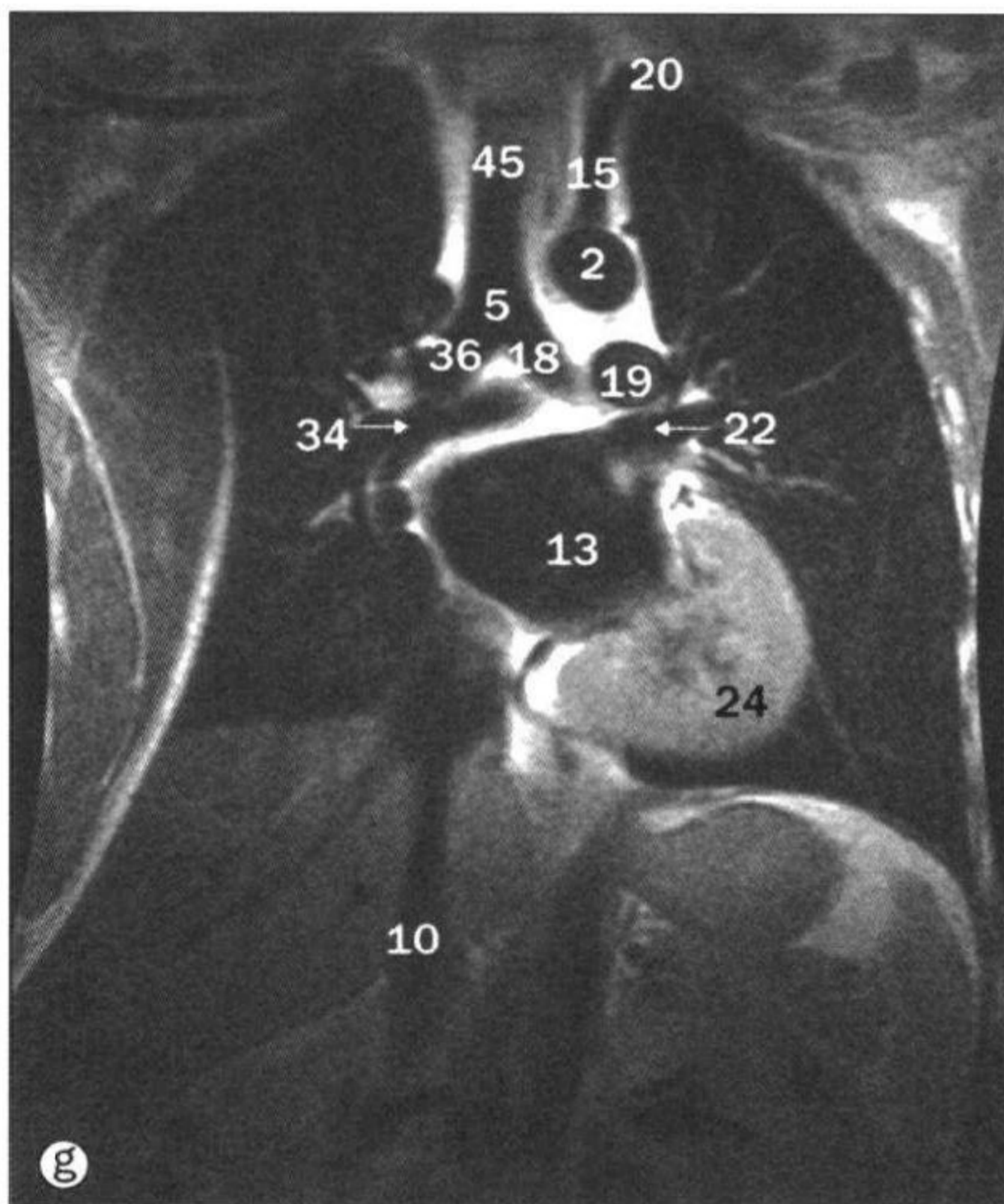
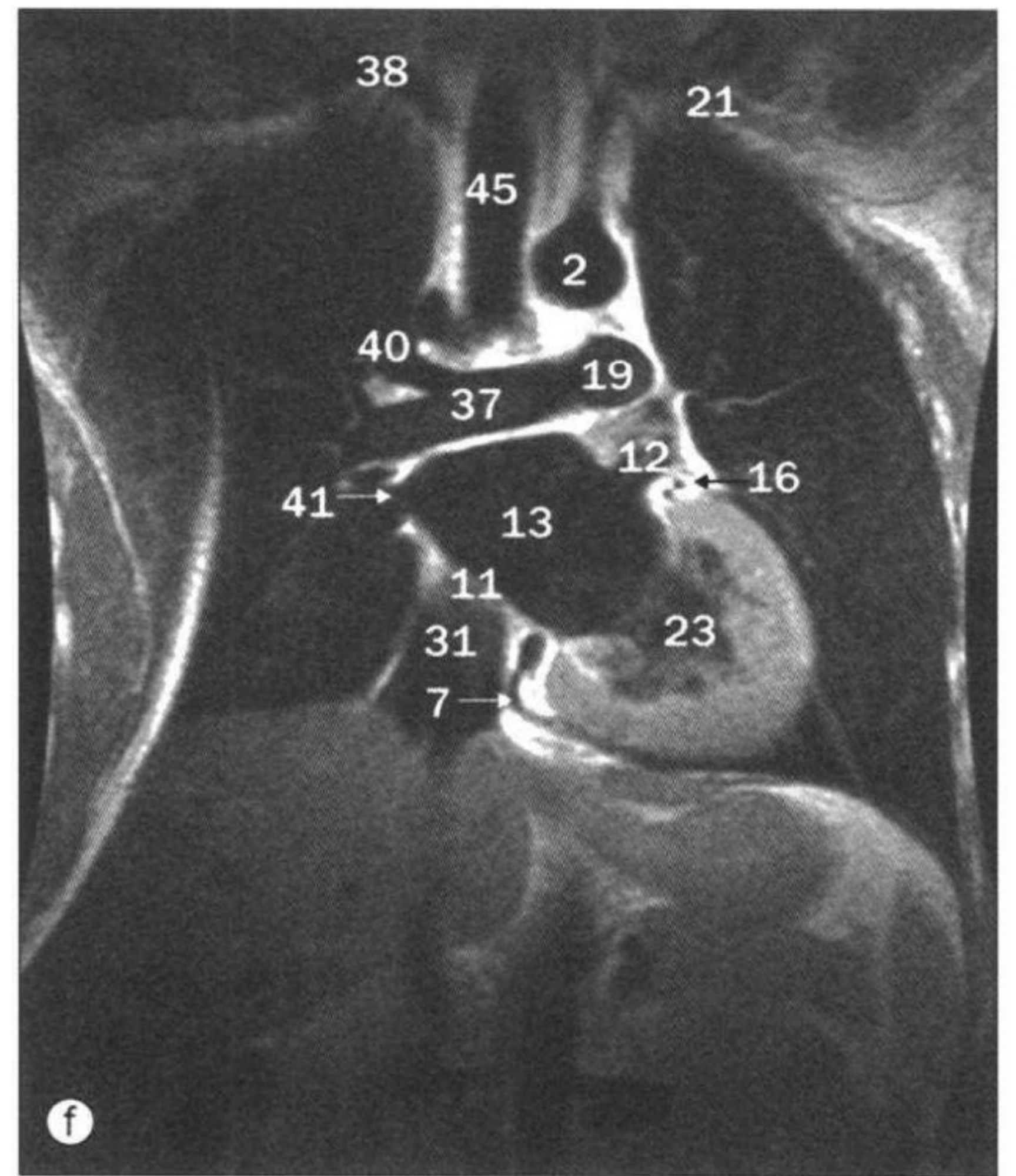
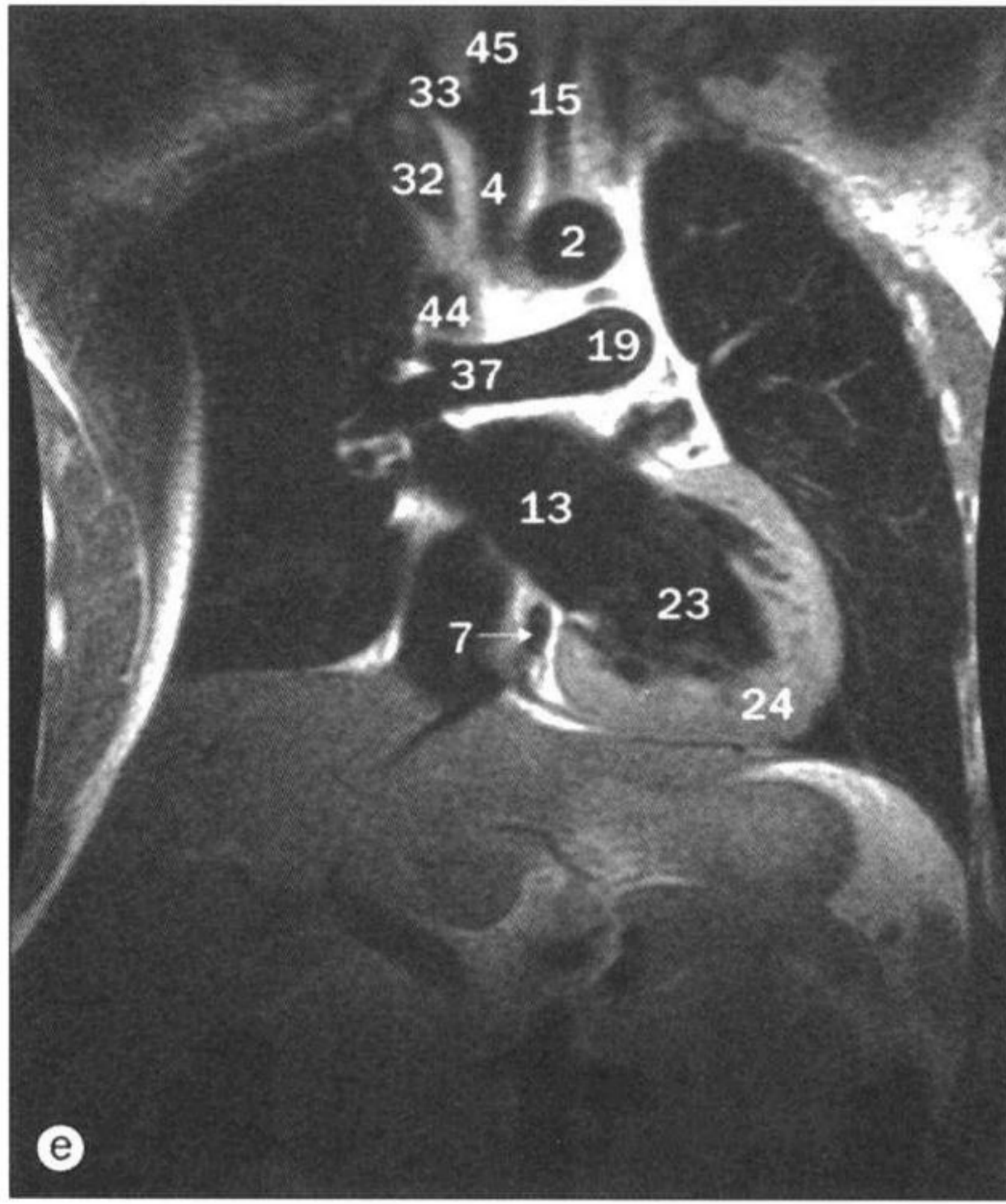
- 52 右肺下静脉 right inferior pulmonary vein
- 53 右主支气管 right main bronchus
- 54 右肺动脉 right pulmonary artery
- 55 右肋间上静脉 right superior intercostal vein
- 56 右下叶支气管 right superior lobe bronchus
- 57 右肺上静脉 right superior pulmonary vein
- 58 右心室腔 right ventricular cavity
- 59 前锯肌 serratus anterior muscle
- 60 胸锁关节 sternoclavicular joint
- 61 肩胛下肌 subscapularis muscle
- 62 右肺动脉上叶支 superior lobe branch of right pulmonary artery
- 63 上腔静脉 superior vena cava
- 64 气管 trachea
- 65 斜方肌 trapezius muscle
- 66 三尖瓣 tricuspid valve



a~h. 胸，冠状位 MRI (由前至后)。

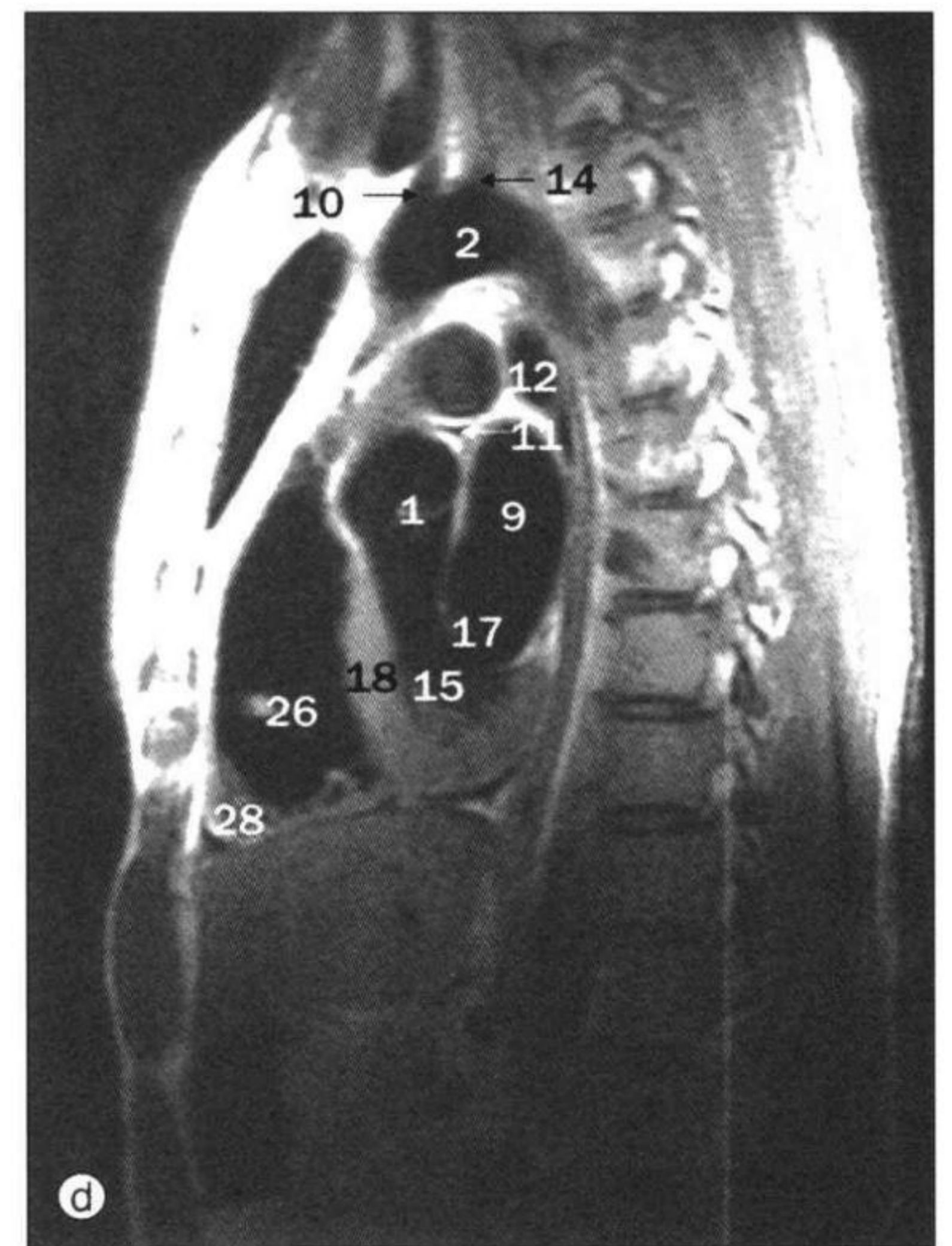
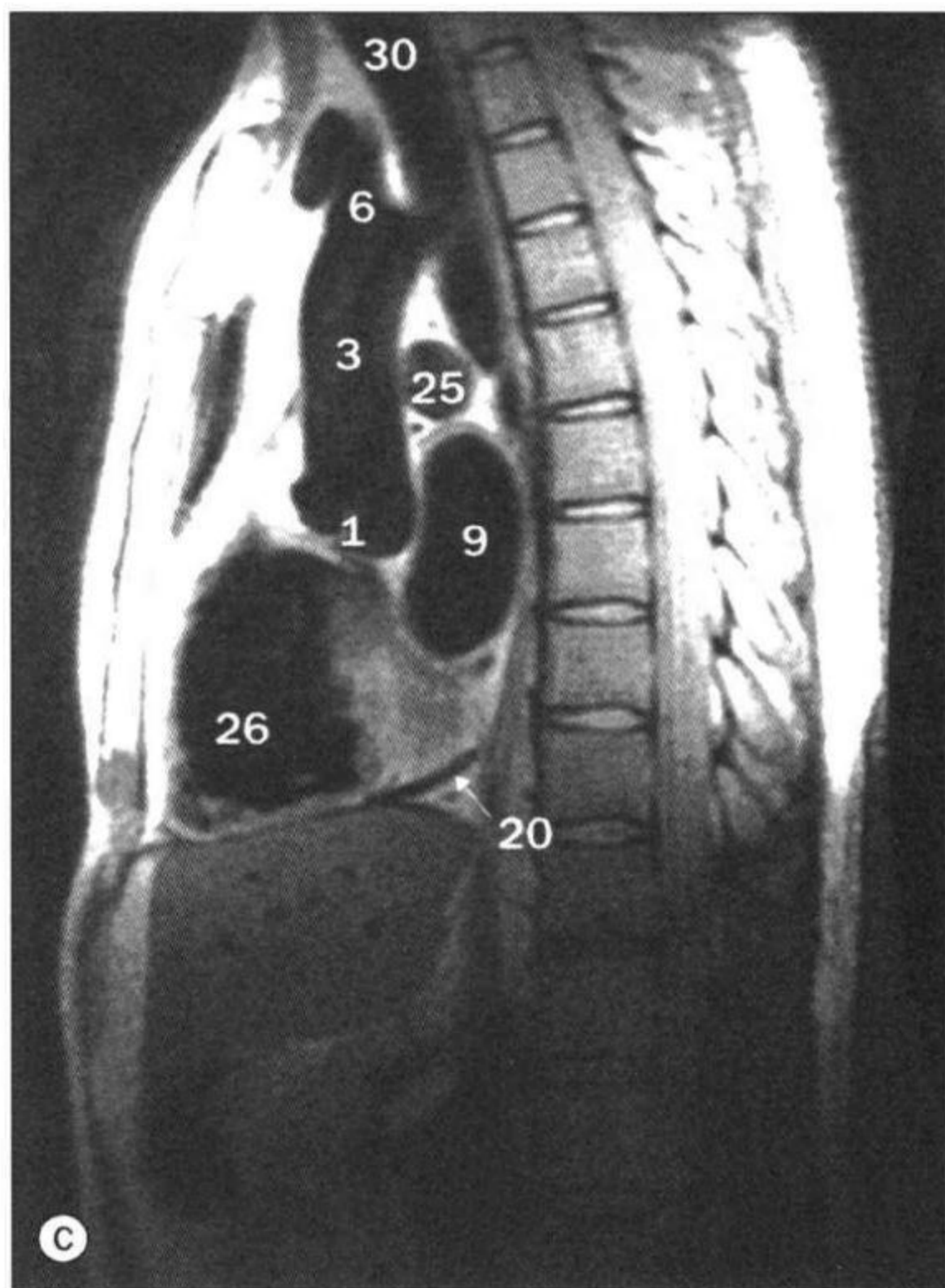
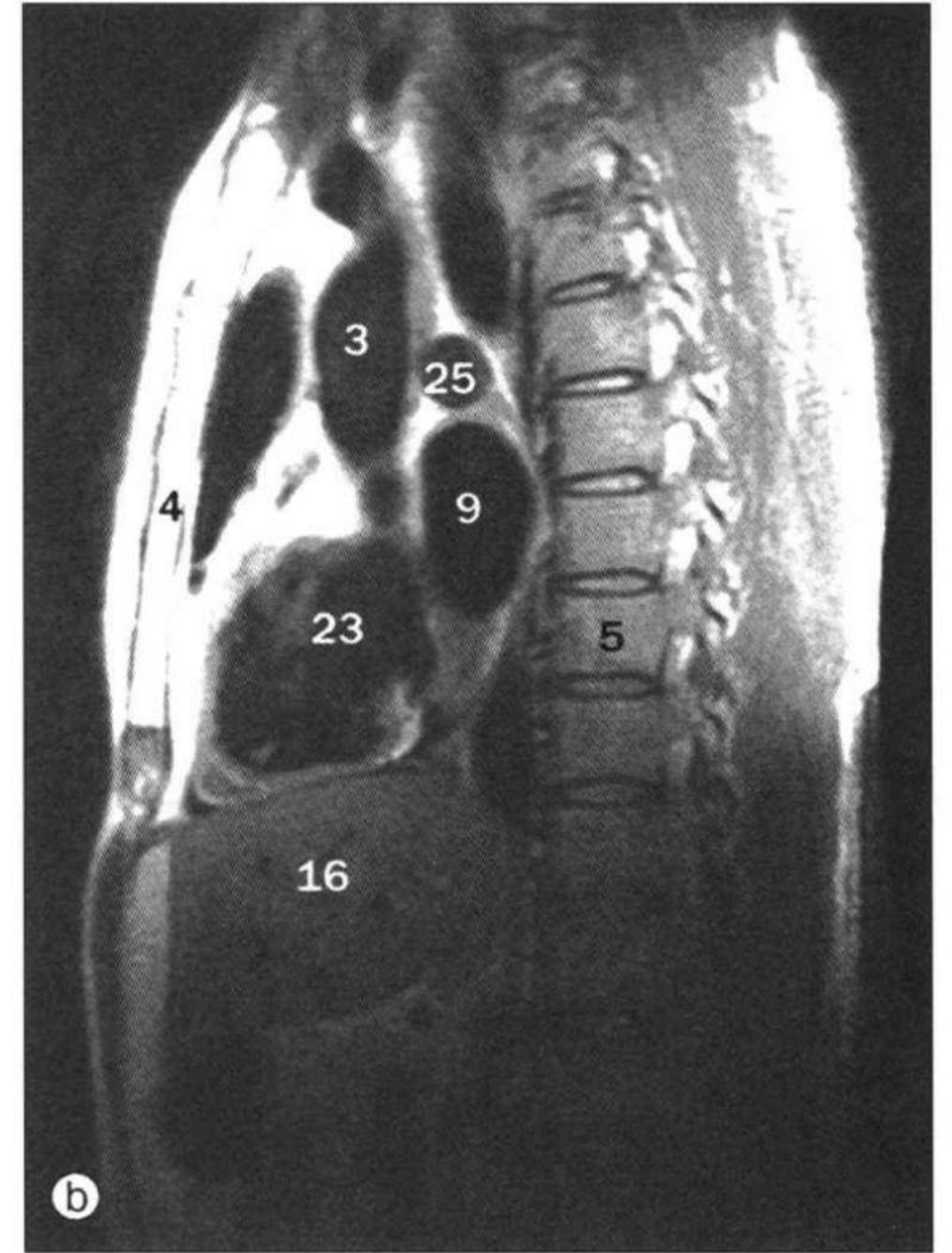
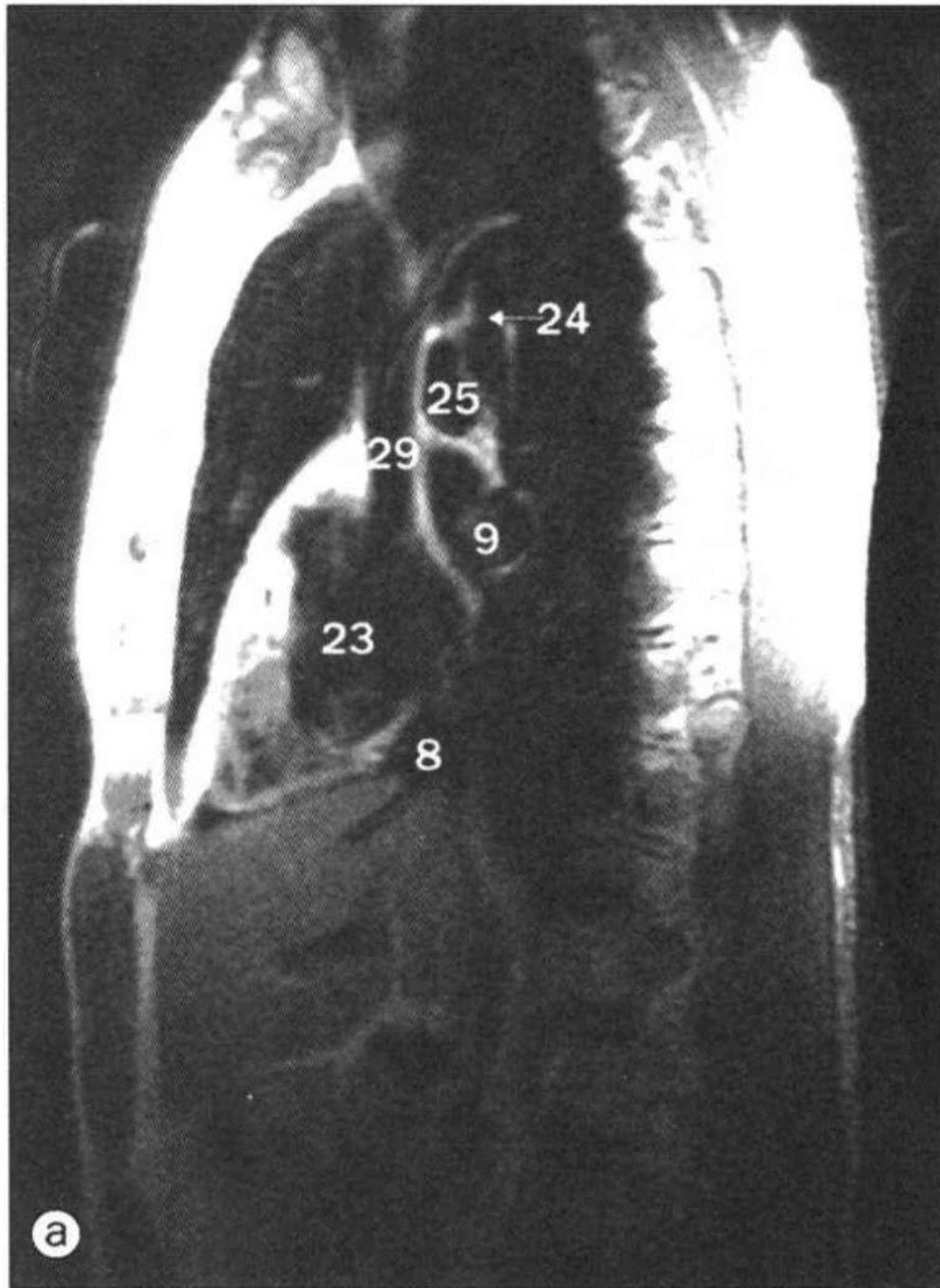
- 1 主动脉瓣 aortic valve
- 2 主动脉弓 arch of aorta
- 3 升主动脉 ascending aorta
- 4 头臂干 brachiocephalic trunk
- 5 气管隆嵴 (气管杈) carina (bifurcation of trachea)
- 6 锁骨 clavicle
- 7 冠状窦 coronary sinus
- 8 降主动脉 descending aorta
- 9 肝静脉 hepatic veins
- 10 下腔静脉 inferior vena cava
- 11 房间隔 interatrial septum
- 12 左心耳 left atrial appendage (auricle)

- 13 左心房 left atrium
- 14 左头臂静脉 left brachiocephalic vein
- 15 左颈总动脉 left common carotid artery
- 16 左冠状动脉 left coronary artery
- 17 肝左叶 left lobe of liver
- 18 左主支气管 left main bronchus
- 19 左肺动脉 left pulmonary artery
- 20 左锁骨下动脉 left subclavian artery
- 21 左锁骨下动脉 left subclavian artery
- 22 左肺上静脉 left superior pulmonary vein
- 23 左心室腔 left ventricular cavity
- 24 左心室壁 left ventricular wall



25 室间隔膜部 membranous interventricular septum
 26 室间隔肌部 muscular interventricular septum
 27 乳头肌 papillary muscles
 28 心包 pericardium
 29 肺动脉干 pulmonary trunk
 30 肺动脉瓣 pulmonary valve
 31 右心房 right atrium
 32 右头臂静脉 right brachiocephalic vein
 33 右颈总动脉 right common carotid artery
 34 右下叶支气管 right inferior lobe bronchus
 35 肝右叶 right lobe of liver

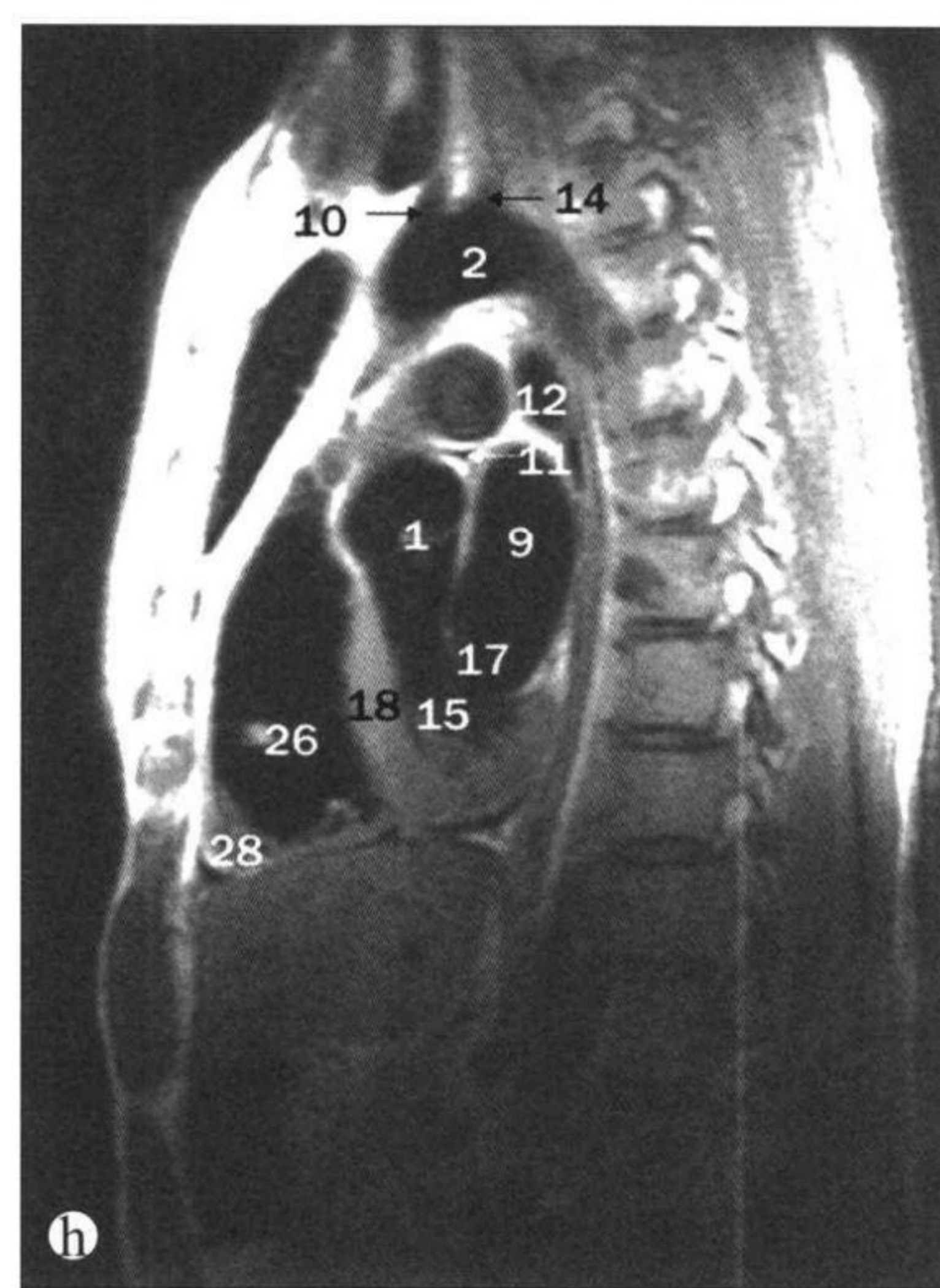
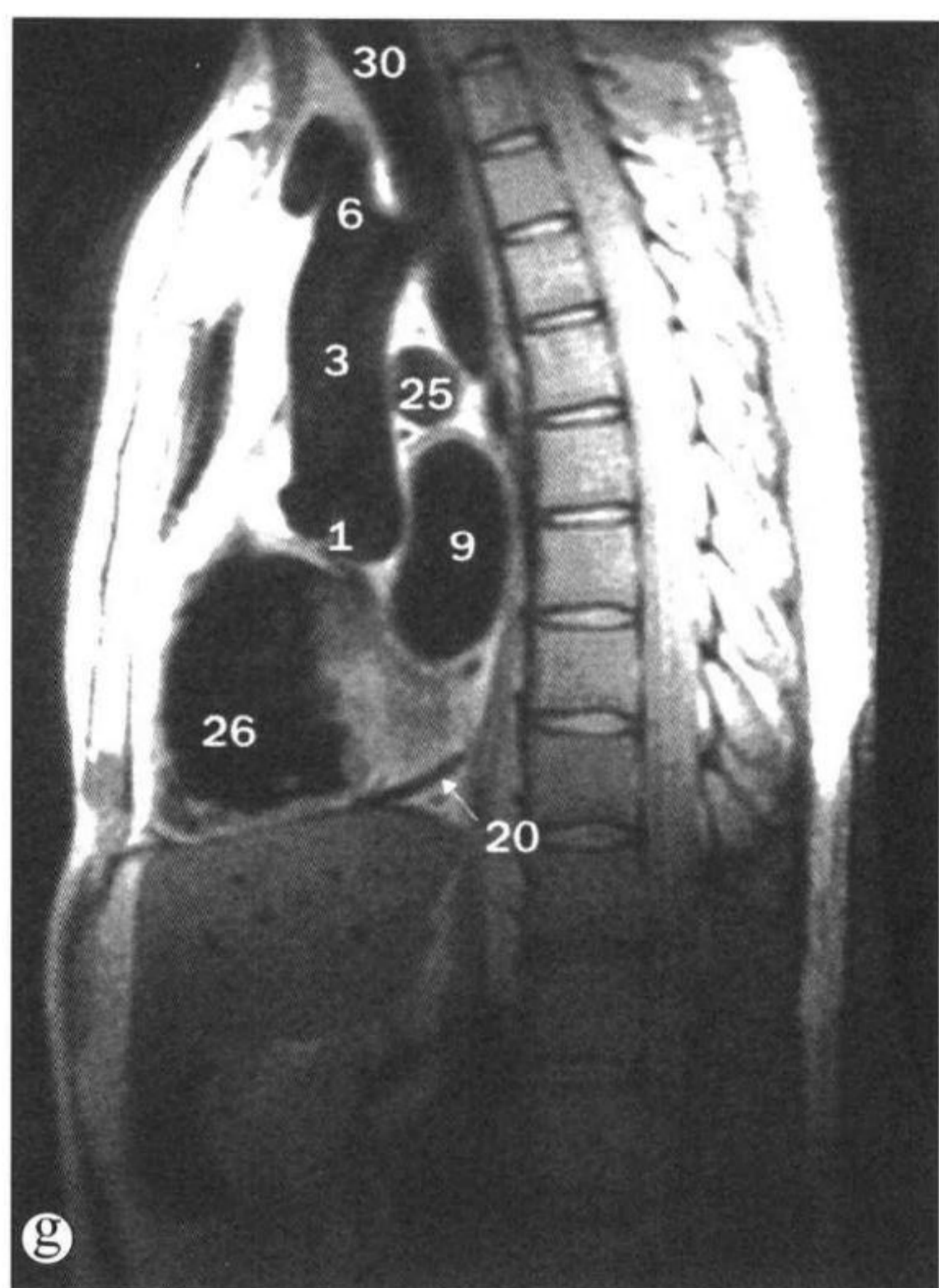
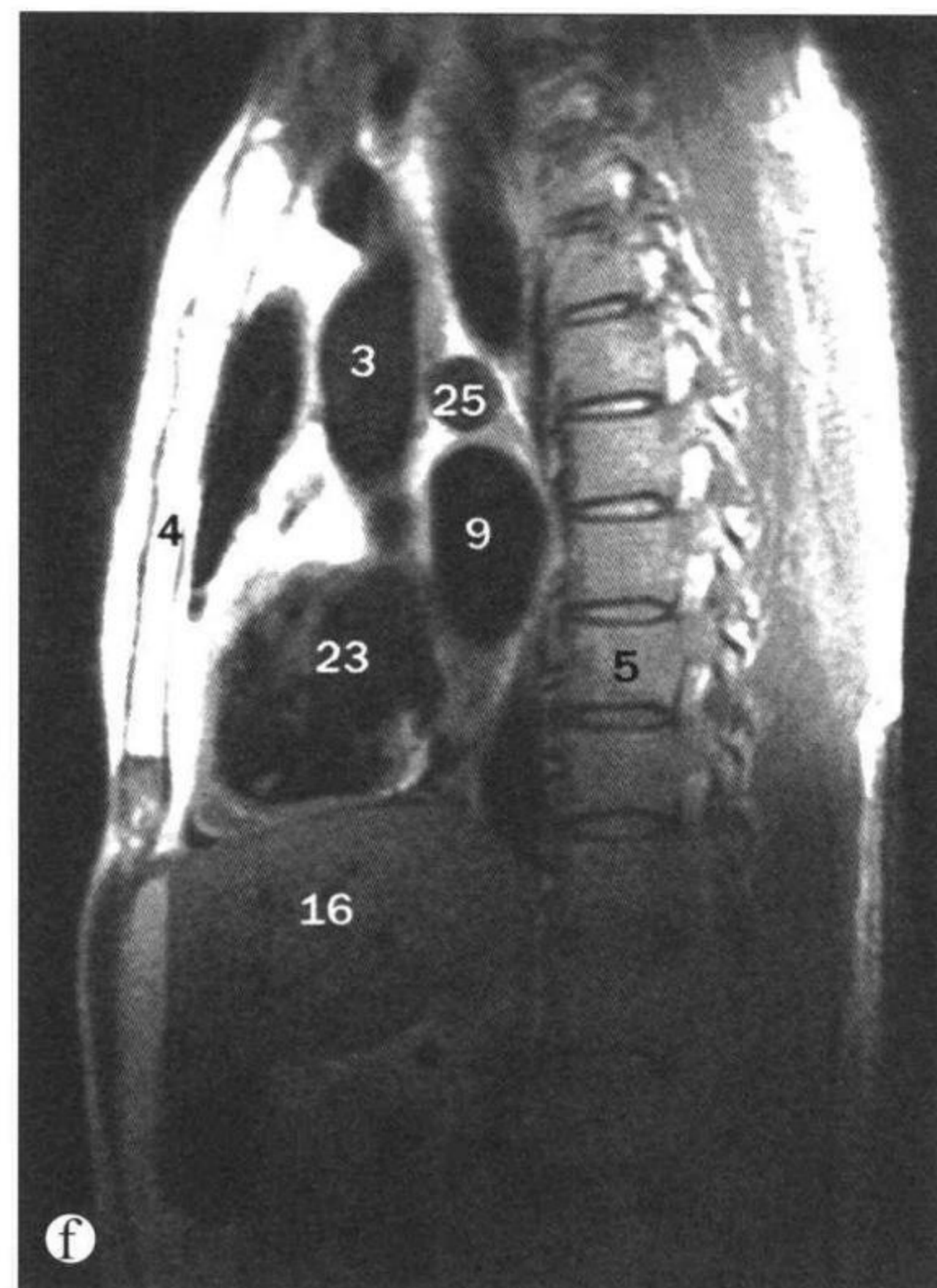
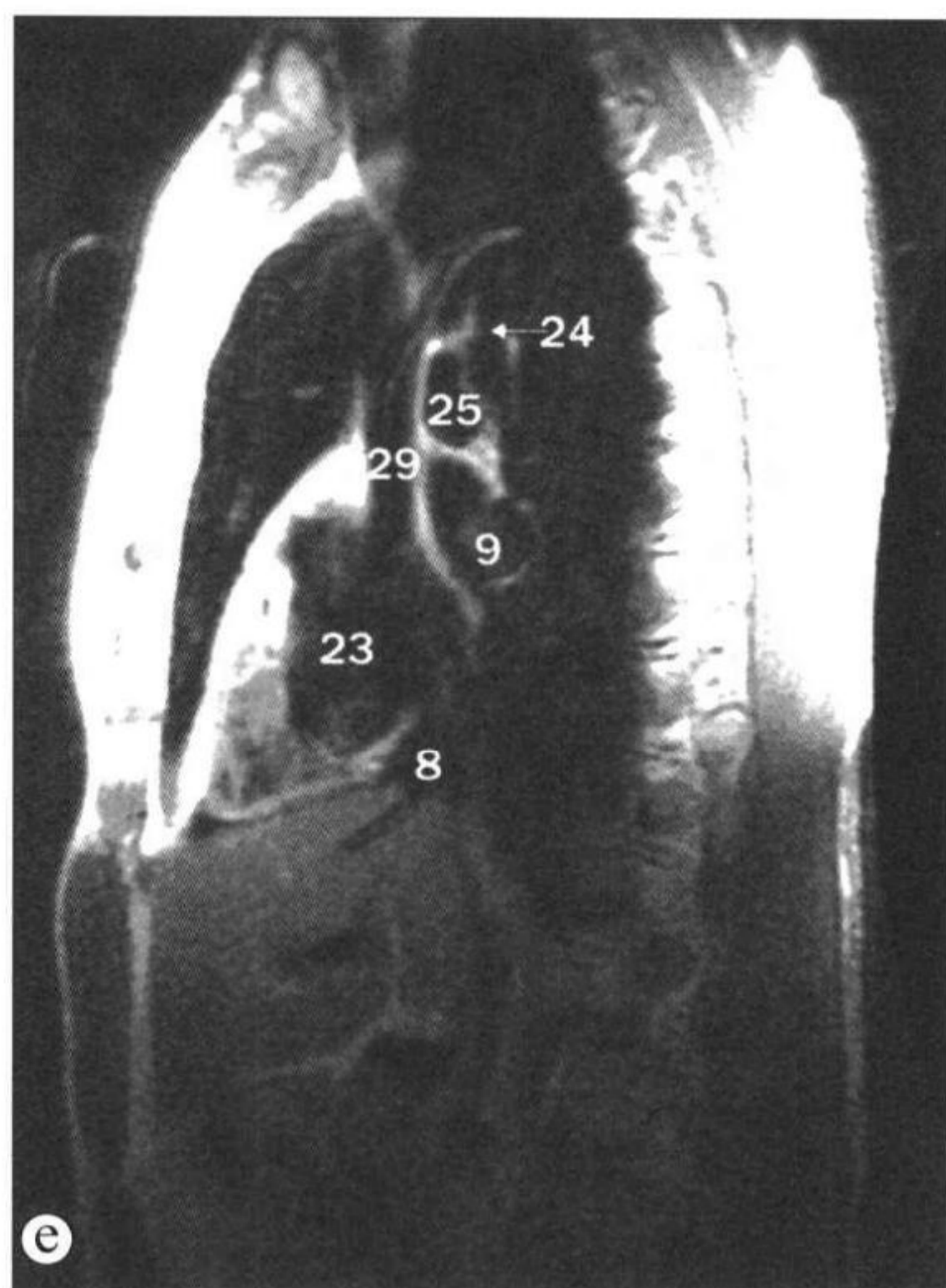
36 右主支气管 right main bronchus
 37 右肺动脉 right pulmonary artery
 38 右锁骨下动脉 right subclavian artery
 39 右上叶支气管 right superior lobe bronchus
 40 右上叶肺动脉 right superior lobe pulmonary artery
 41 右肺上静脉 right superior pulmonary vein
 42 右心室腔 right ventricular cavity
 43 右心室壁 right ventricular wall
 44 上腔静脉 superior vena cava
 45 气管 trachea



a~h. 胸, 矢状位 MRI。

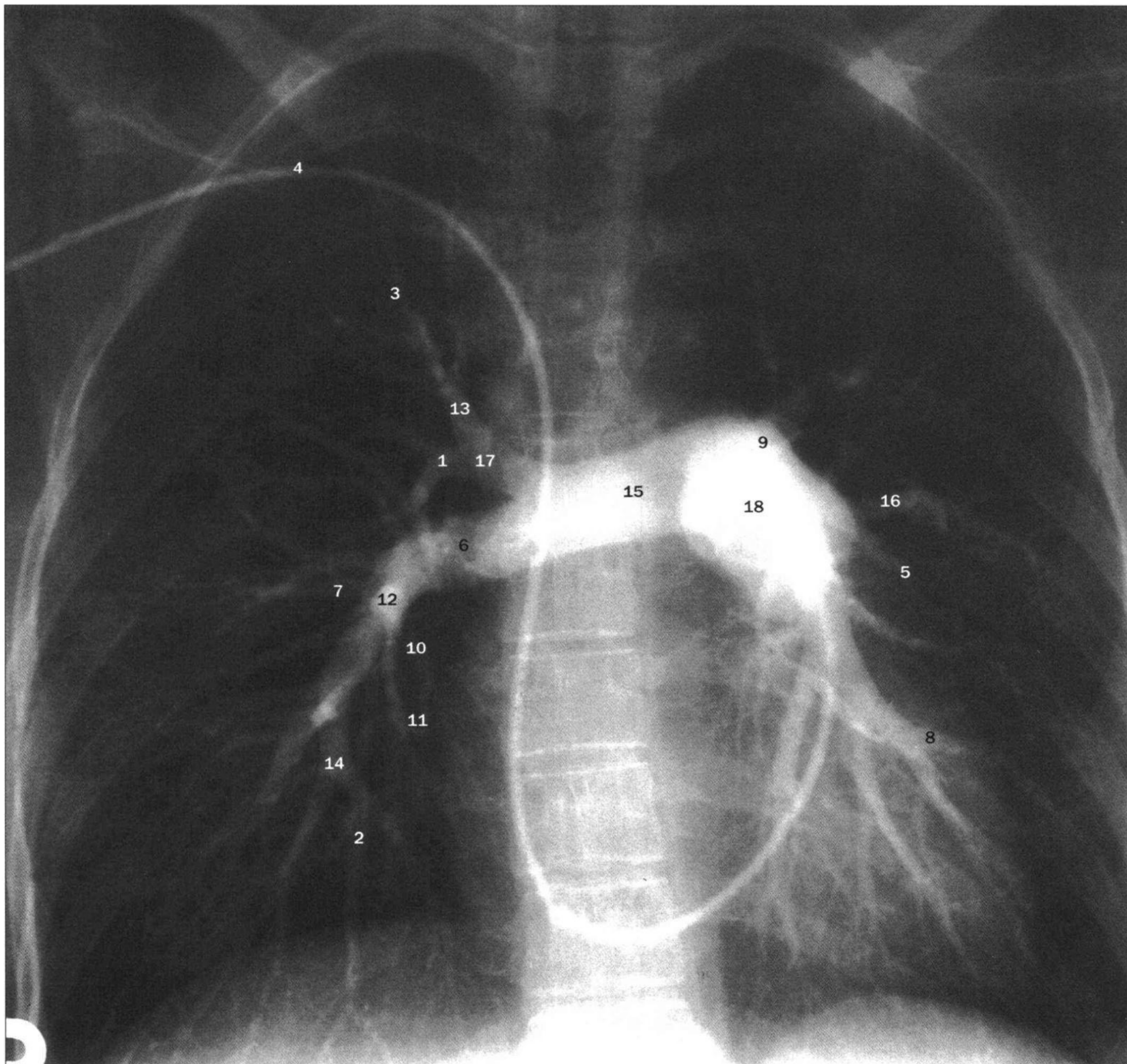
- 1 主动脉瓣 aortic valve
- 2 主动脉弓 (主动脉结节)
arch of aorta (aortic knuckle or knob)
- 3 升主动脉 ascending aorta
- 4 胸骨体 body of sternum
- 5 椎体 body of vertebra
- 6 头臂干 brachiocephalic trunk
- 7 降主动脉 descending aorta
- 8 下腔静脉 inferior vena cava

- 9 左心房 left atrium
- 10 左颈总动脉 left common carotid artery
- 11 左冠状动脉 left coronary artery
- 12 左主支气管 left main bronchus
- 13 左肺动脉 left pulmonary artery
- 14 左锁骨下动脉 left subclavian artery
- 15 左心室腔 left ventricular cavity
- 16 肝 liver



17 二尖瓣 mitral valve
 18 室间隔肌部 muscular interventricular septum
 19 乳头肌 papillary muscles
 20 心包 pericardium
 21 肺动脉干 pulmonary trunk
 22 肺动脉瓣 pulmonary valve
 23 右心房 right atrium

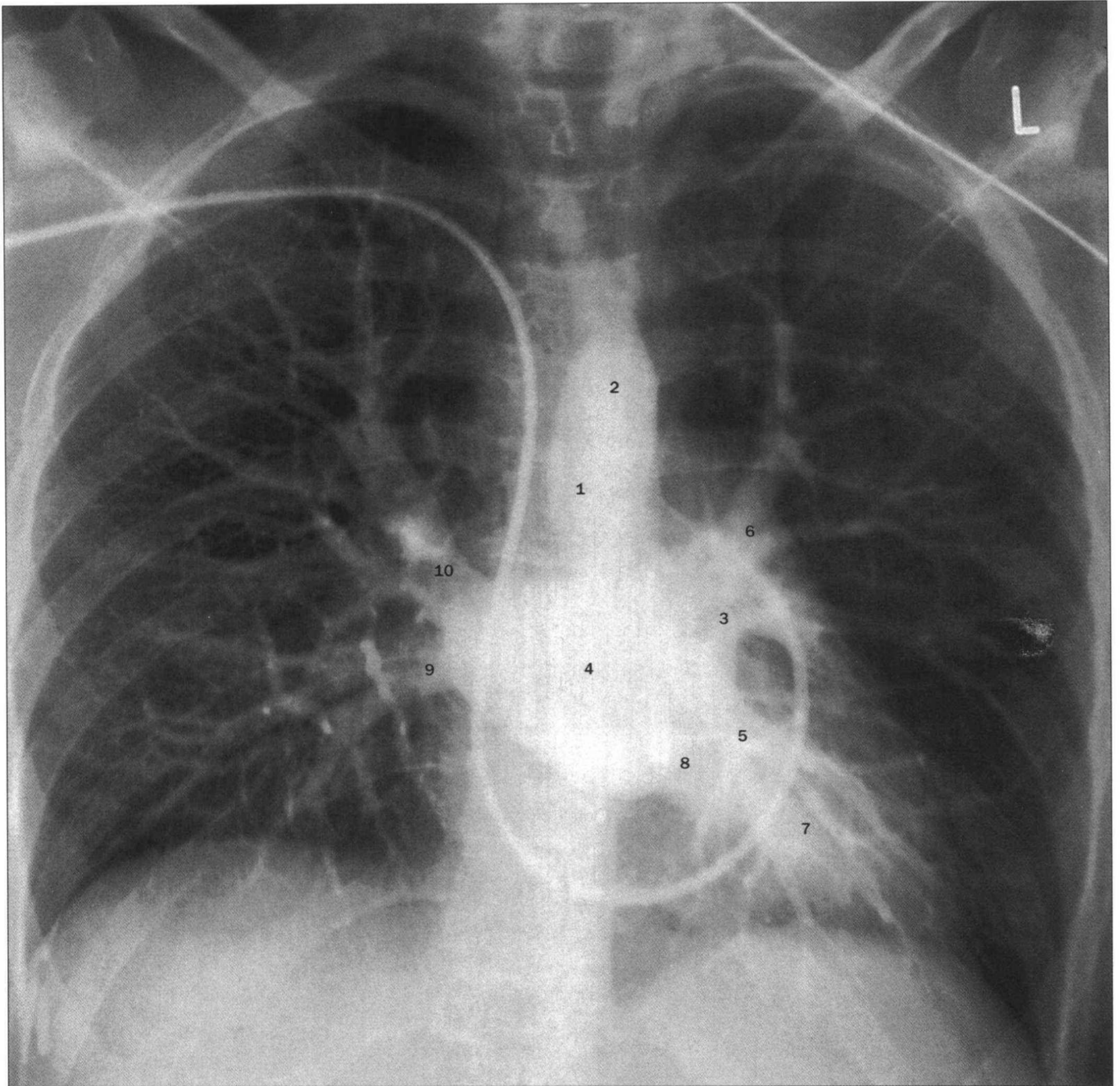
24 右主支气管 right main bronchus
 25 右肺动脉 right pulmonary artery
 26 右心室腔 right ventricular cavity
 27 右心室流出道 right ventricular outflow tract
 28 右心室壁 right ventricular wall
 29 上腔静脉 superior vena cava
 30 气管 trachea



肺动脉造影，动脉相。

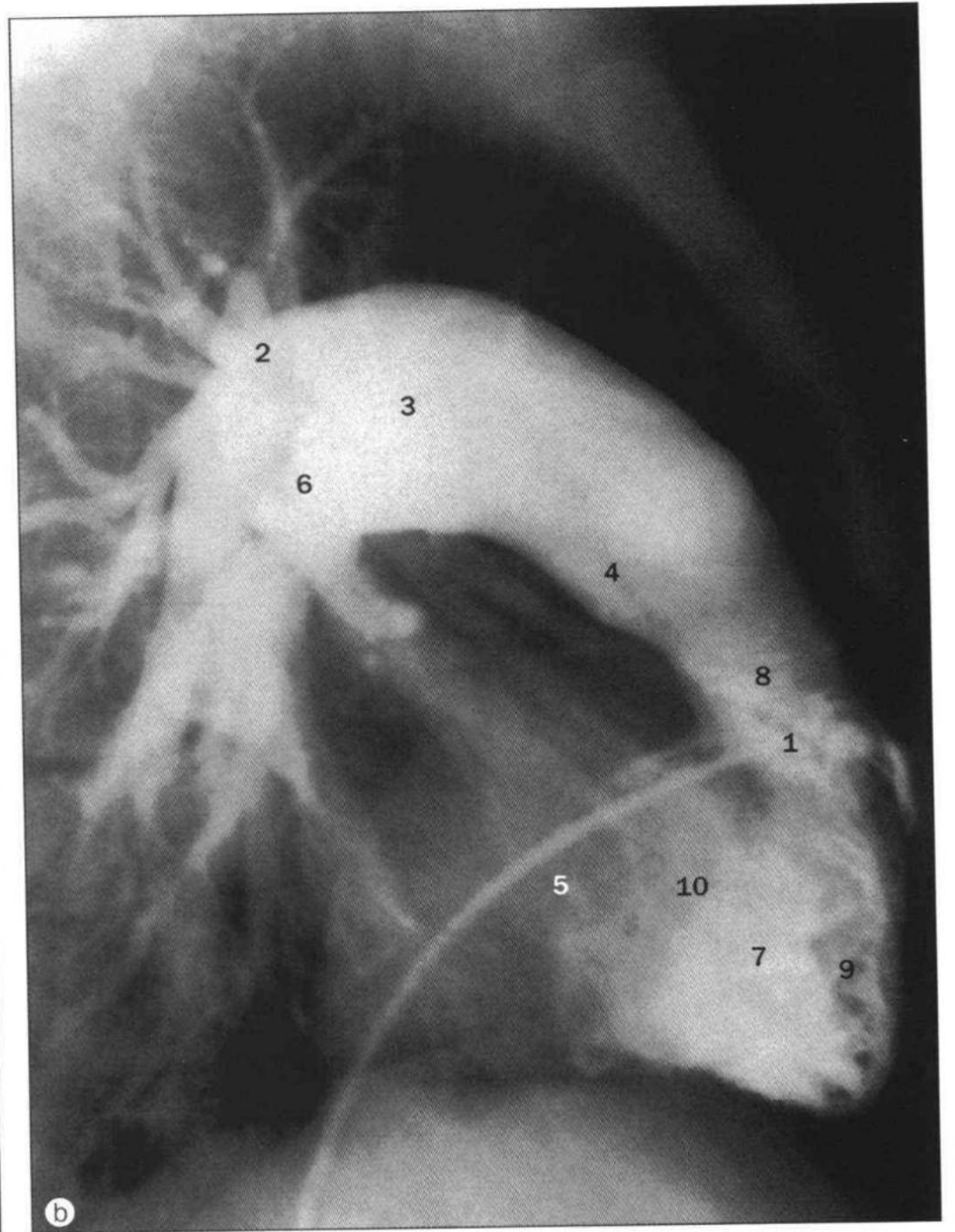
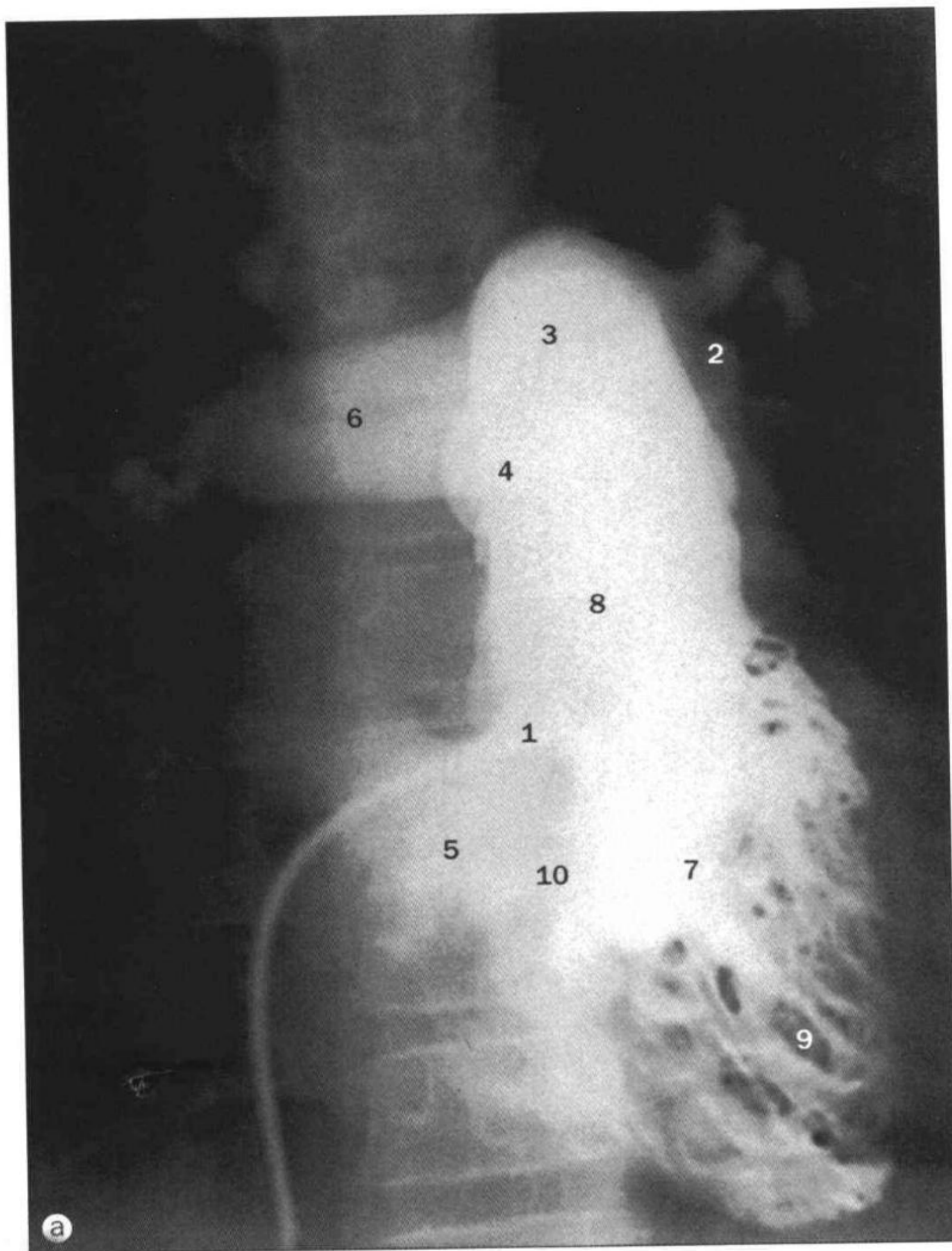
- 1 前段动脉 (上叶) anterior artery (superior lobe)
- 2 前底段动脉 anterior basal artery
- 3 尖段动脉 (上叶) apical artery (superior lobe)
- 4 通过右肱静脉的导管
catheter introduced via right brachial vein
- 5 下舌段动脉 inferior lingular artery
- 6 肺动脉下叶支 inferior lobe pulmonary artery
- 7 外侧段动脉 (中叶) lateral artery (middle lobe)
- 8 外侧底段动脉 lateral basal artery
- 9 左肺动脉 left pulmonary artery

- 10 内侧段动脉 (中叶) medial artery (middle lobe)
- 11 内侧底段动脉 medial basal artery
- 12 肺动脉中叶支 middle lobe pulmonary artery
- 13 后段动脉 (上叶) posterior artery (superior lobe)
- 14 后底段动脉 posterior basal artery
- 15 右肺动脉 right pulmonary artery
- 16 上舌段动脉 superior lingular artery
- 17 肺动脉上叶支 superior lobe pulmonary artery
- 18 肺动脉干内的导管头 tip of catheter in main
pulmonary artery



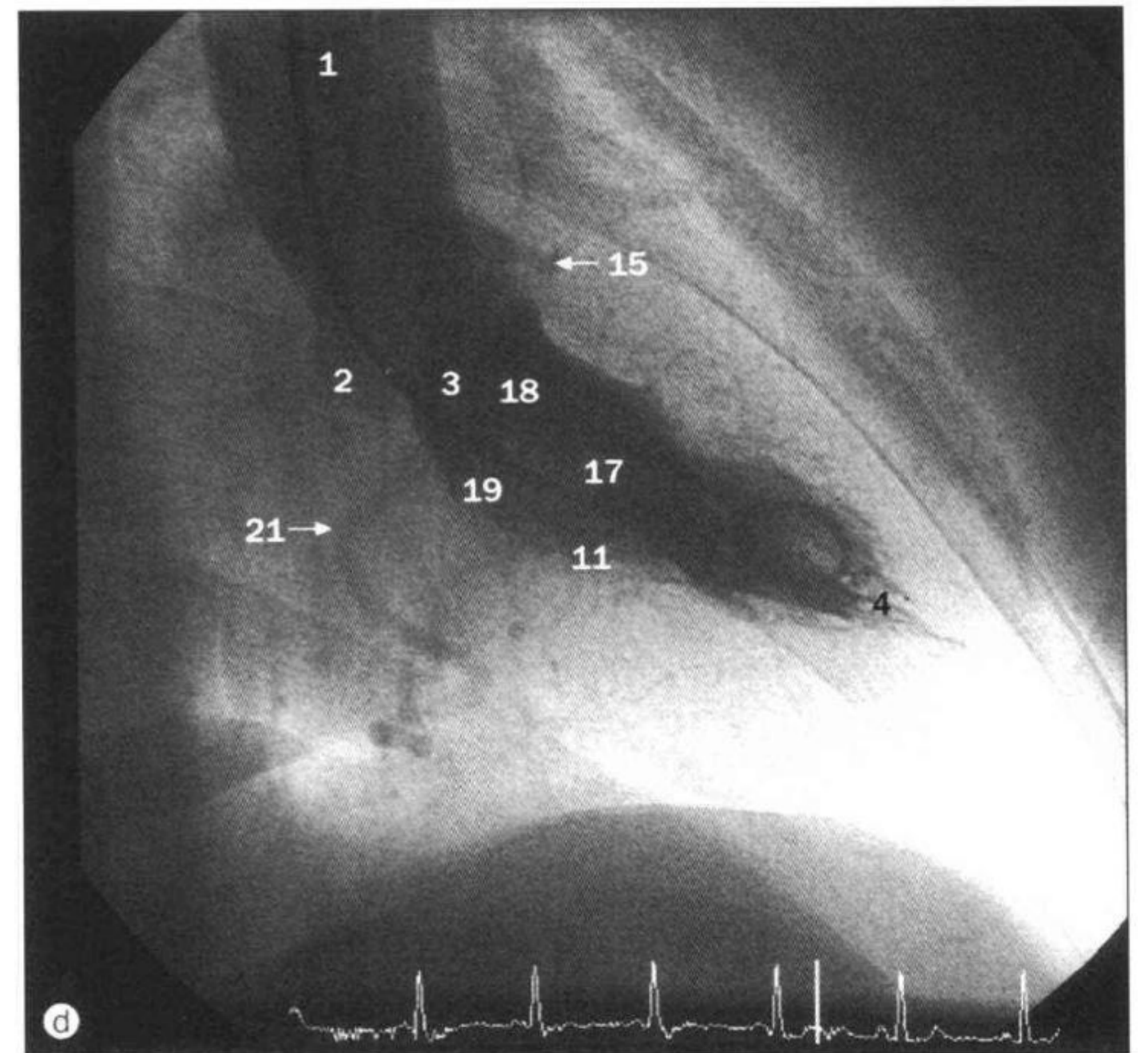
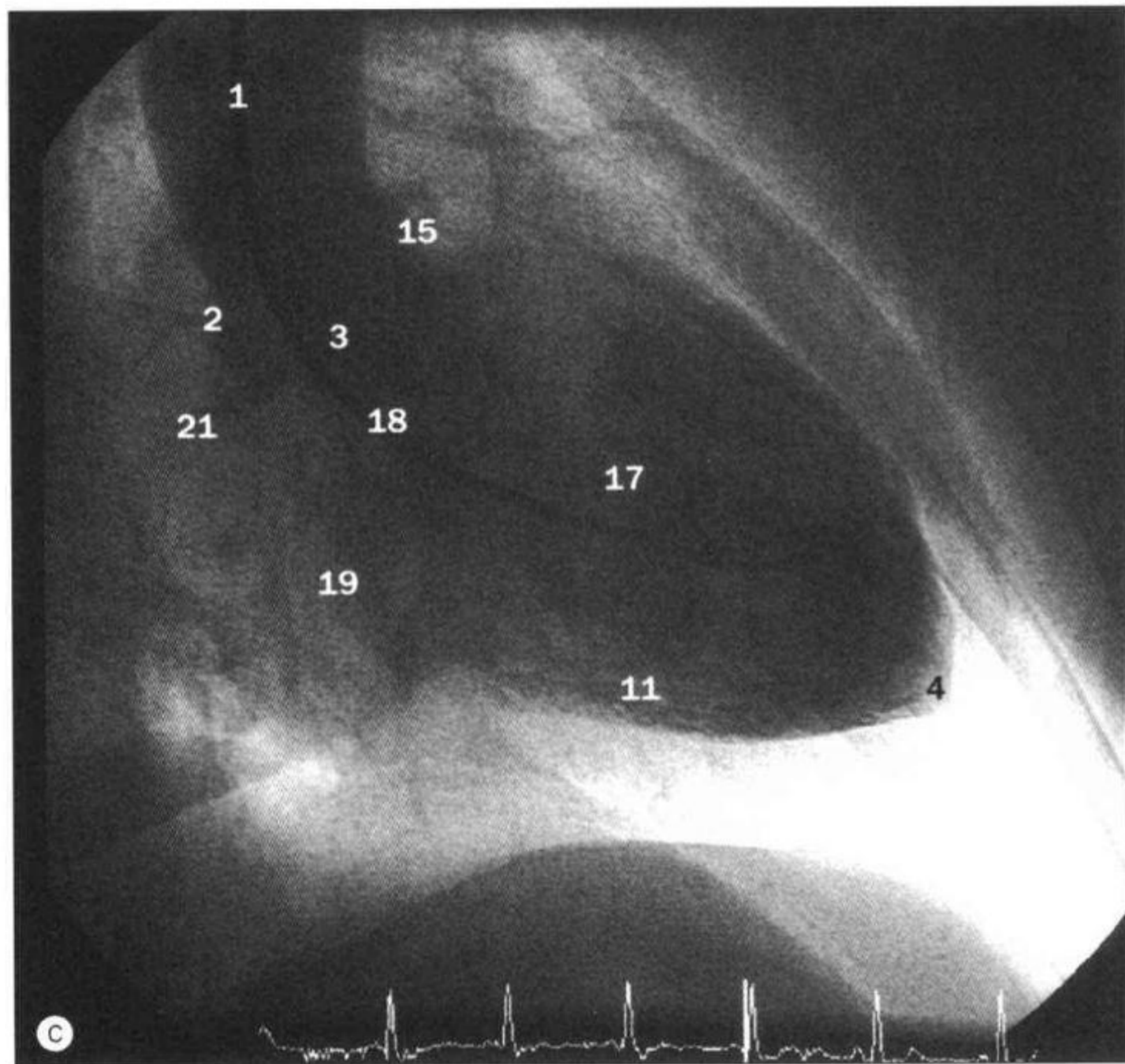
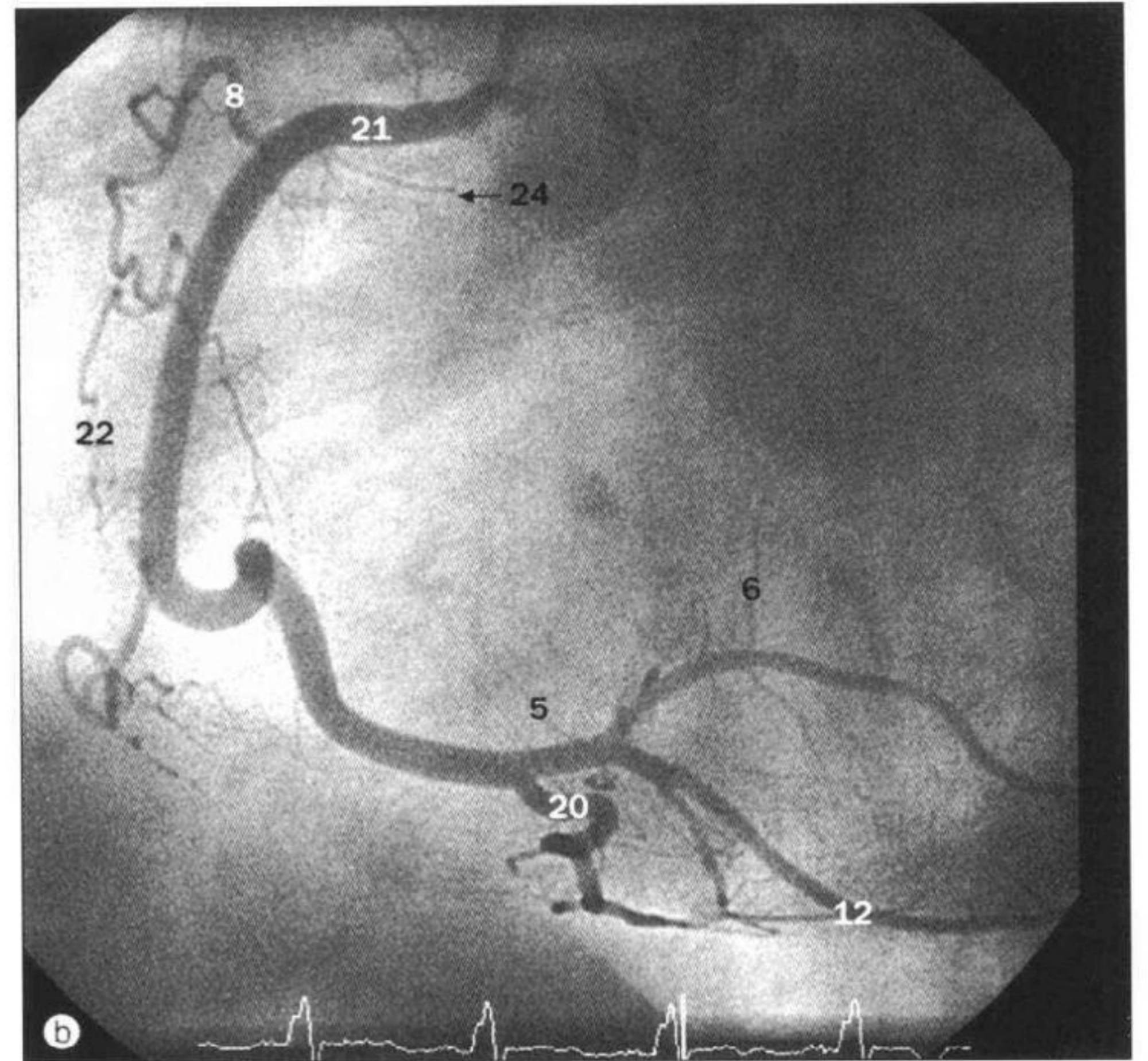
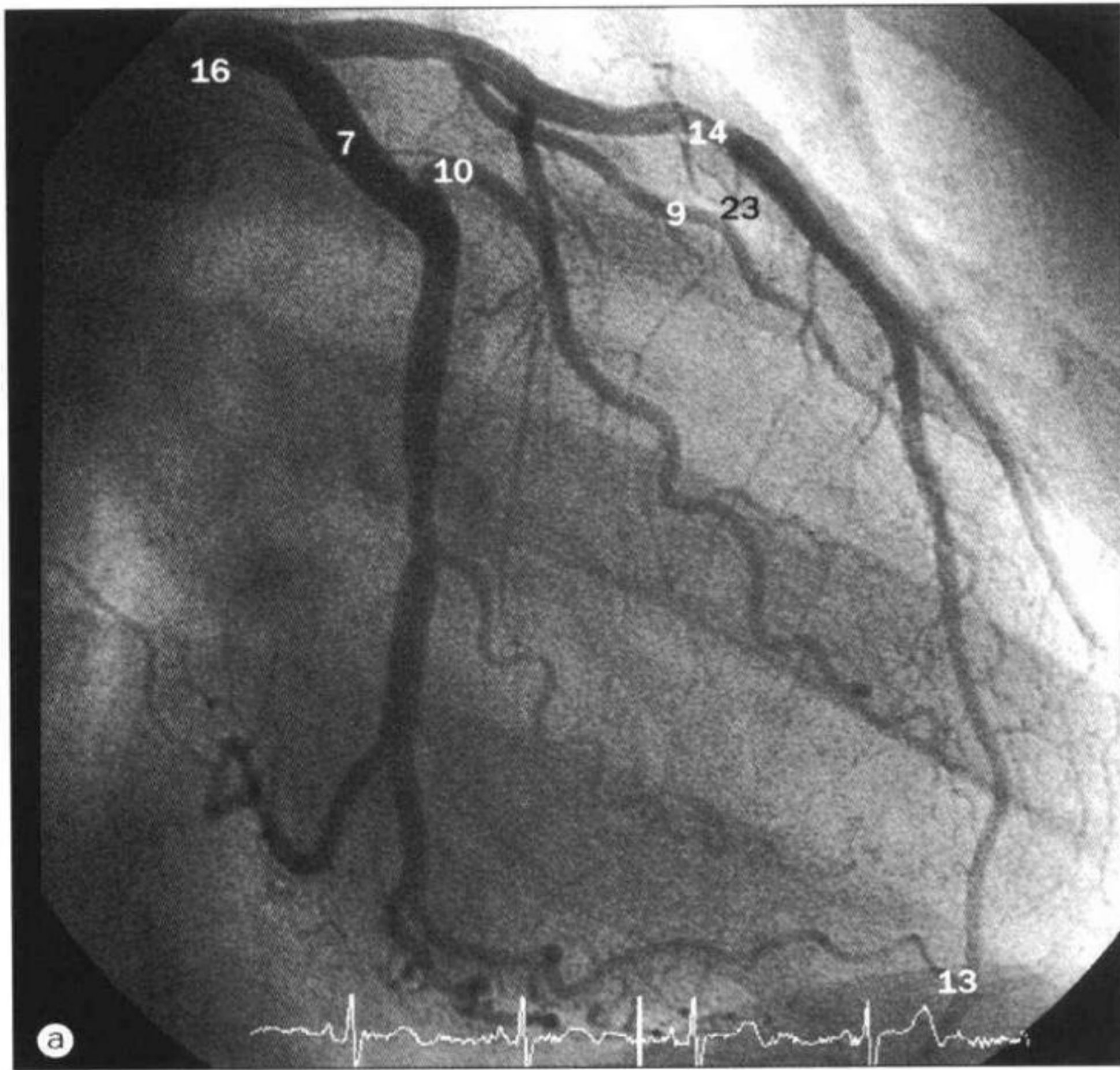
肺动脉造影，静脉相。

- 1 主动脉 aorta
- 2 主动脉弓 aortic arch
- 3 左心耳 left atrial appendage (auricle)
- 4 左心房 left atrium
- 5 左肺下静脉 left inferior pulmonary vein
- 6 左肺上静脉 left superior pulmonary vein
- 7 左心室 left ventricle
- 8 二尖瓣 mitral valve
- 9 右肺下静脉 right inferior pulmonary vein
- 10 右肺上静脉 right superior pulmonary vein



a, b. 右心室造影。

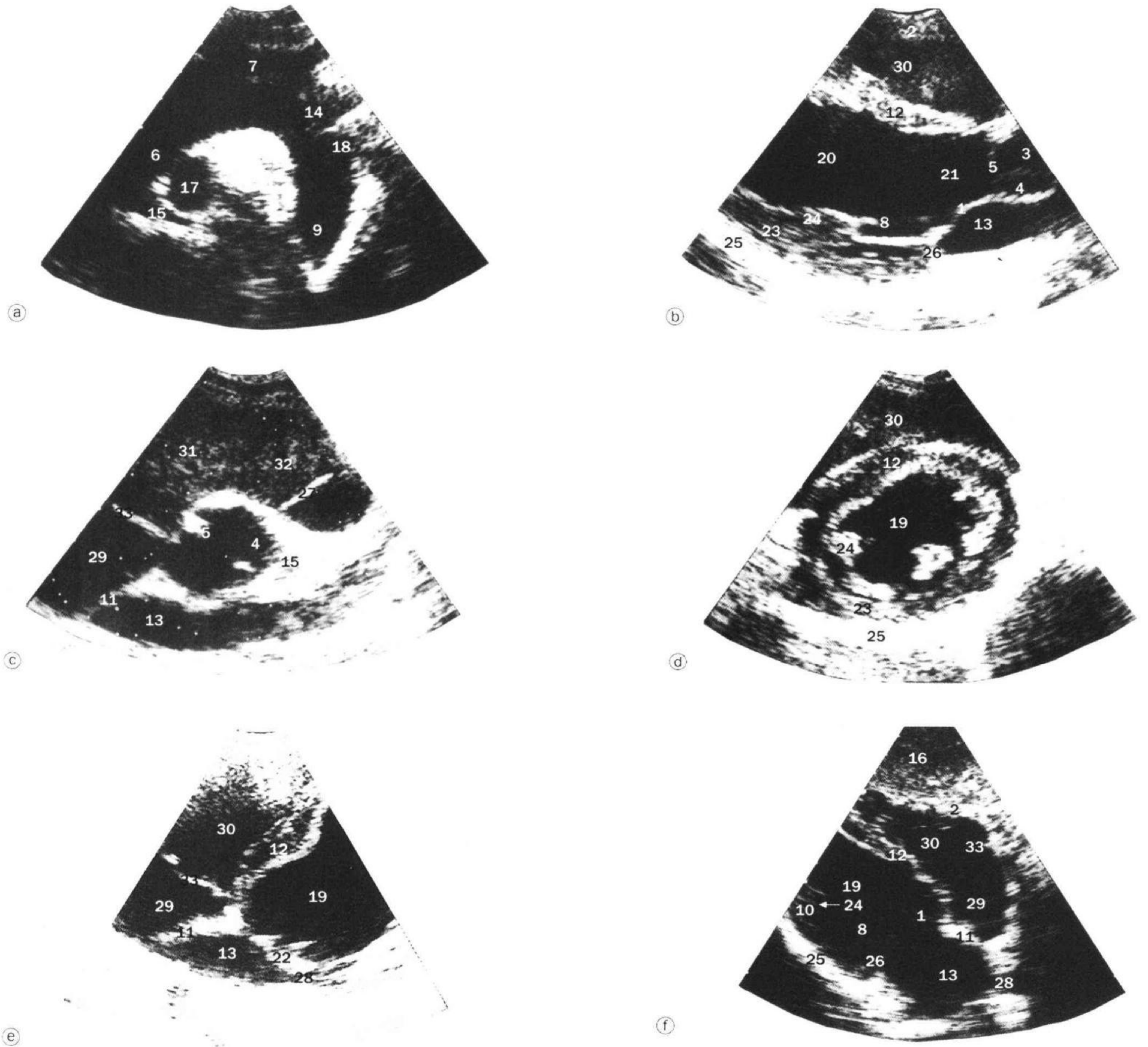
- 1 通过下腔静脉、右心房至右心室的导管
catheter in right ventricle via inferior vena cava and right atrium
- 2 左肺动脉 left pulmonary artery
- 3 肺动脉 pulmonary artery
- 4 肺动脉瓣 pulmonary valve
- 5 右心房 right atrium
- 6 右肺动脉 right pulmonary artery
- 7 右心室 right ventricle
- 8 右心室流出道 right ventricular outflow tract
- 9 右心室肉柱 trabeculae of right ventricle
- 10 三尖瓣 tricuspid valve



a. 左冠状动脉造影; b. 右冠状动脉造影; c. 左心室造影, 舒张期; d. 左心室造影, 收缩期。

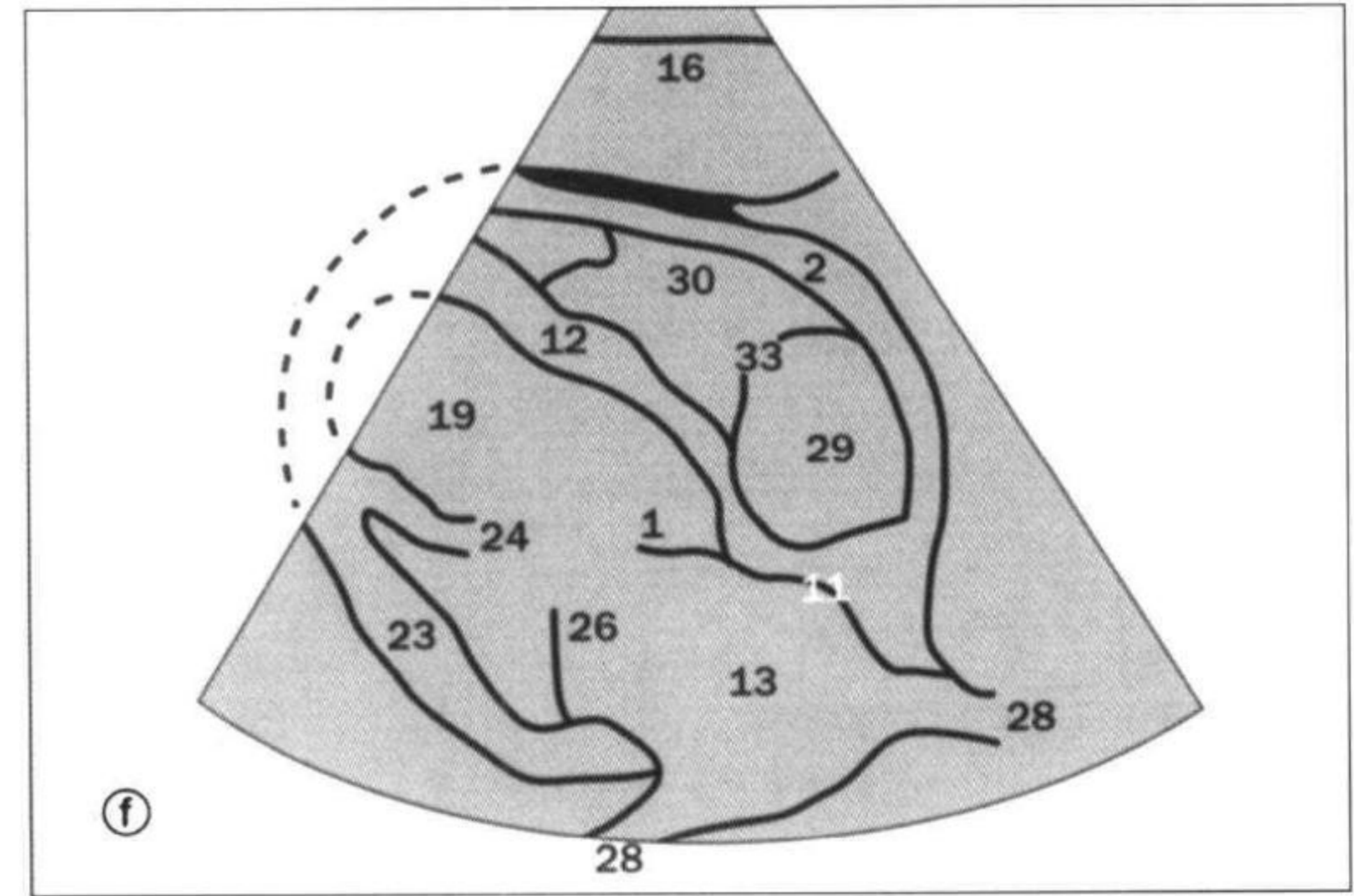
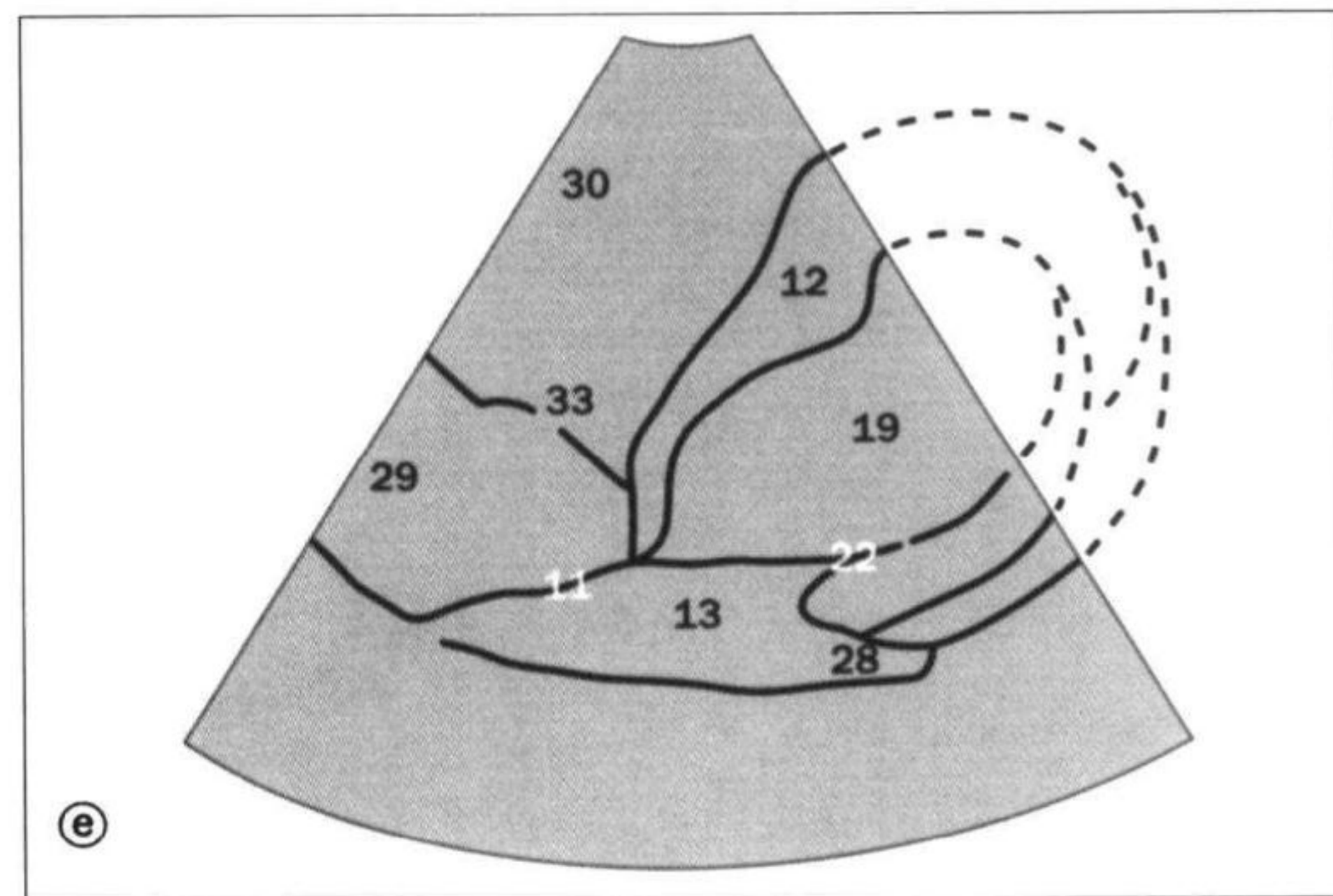
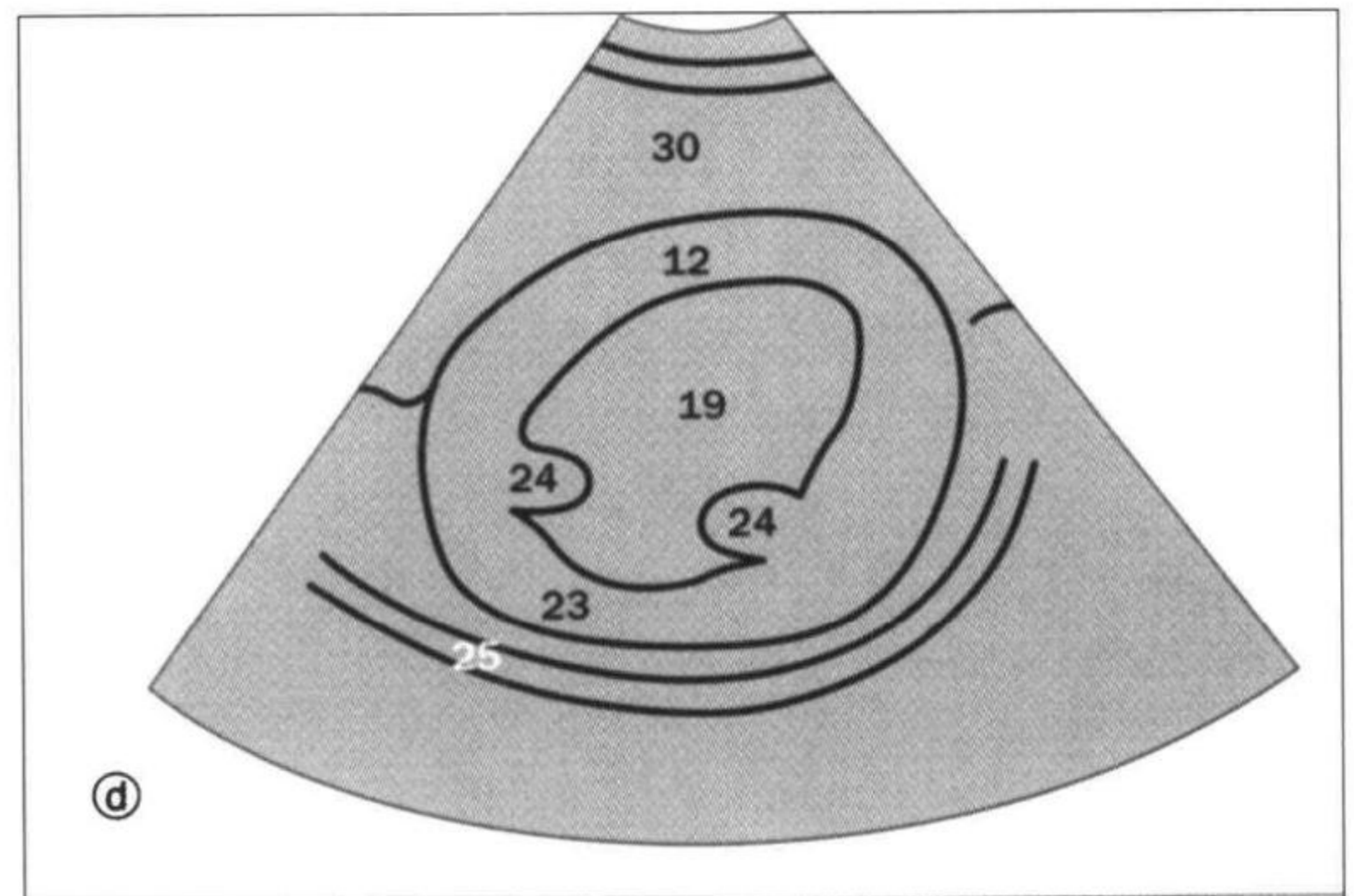
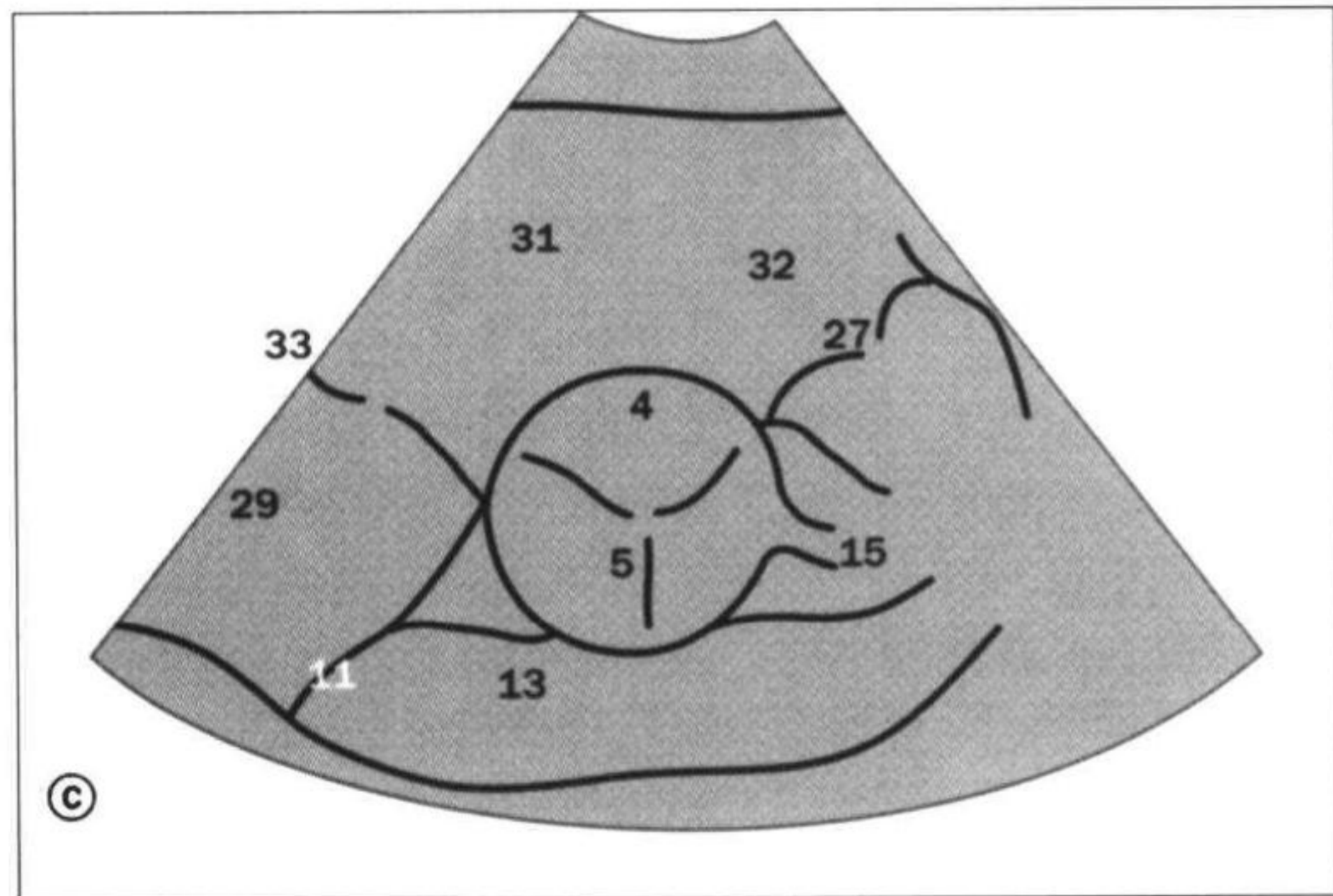
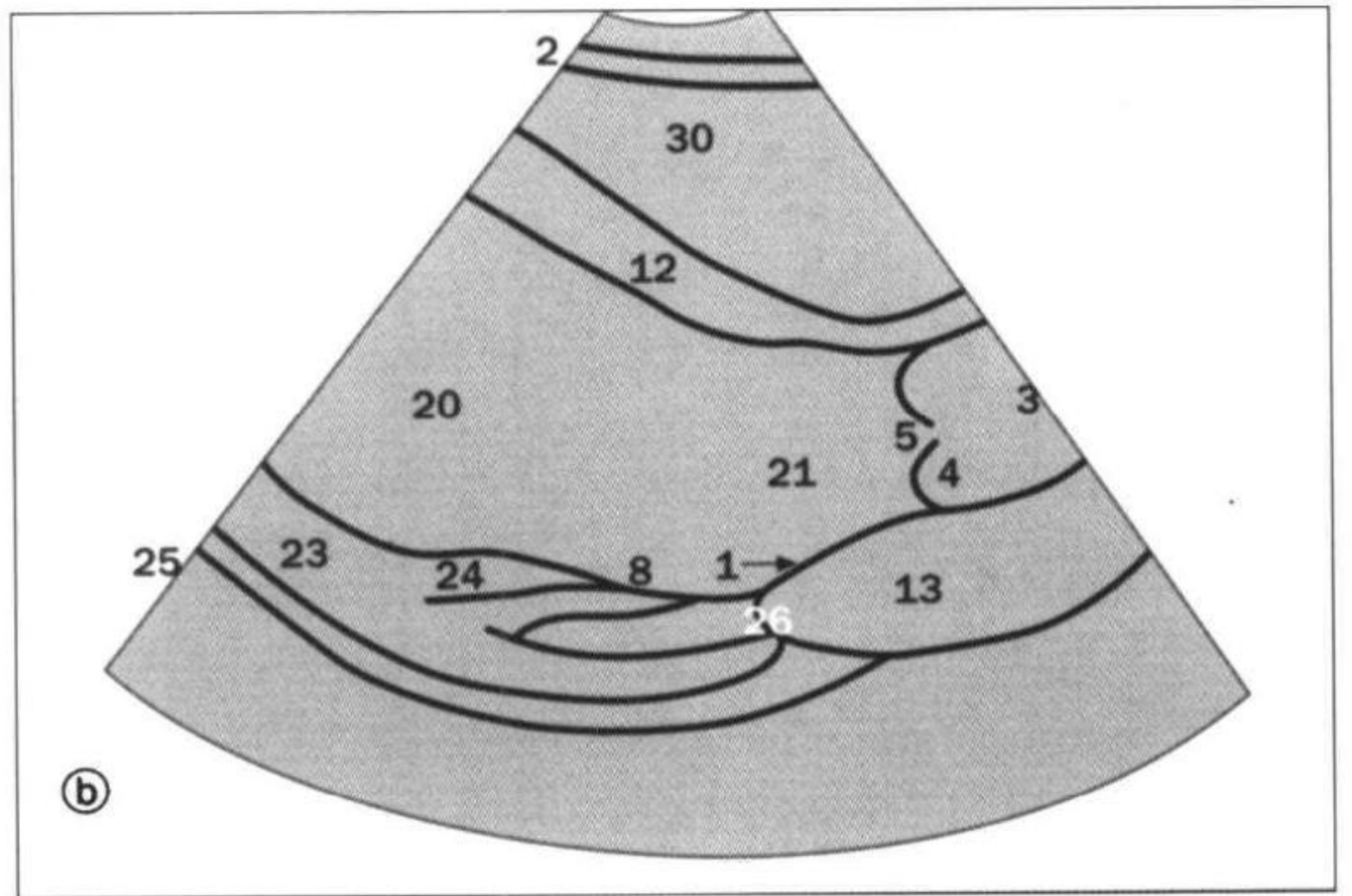
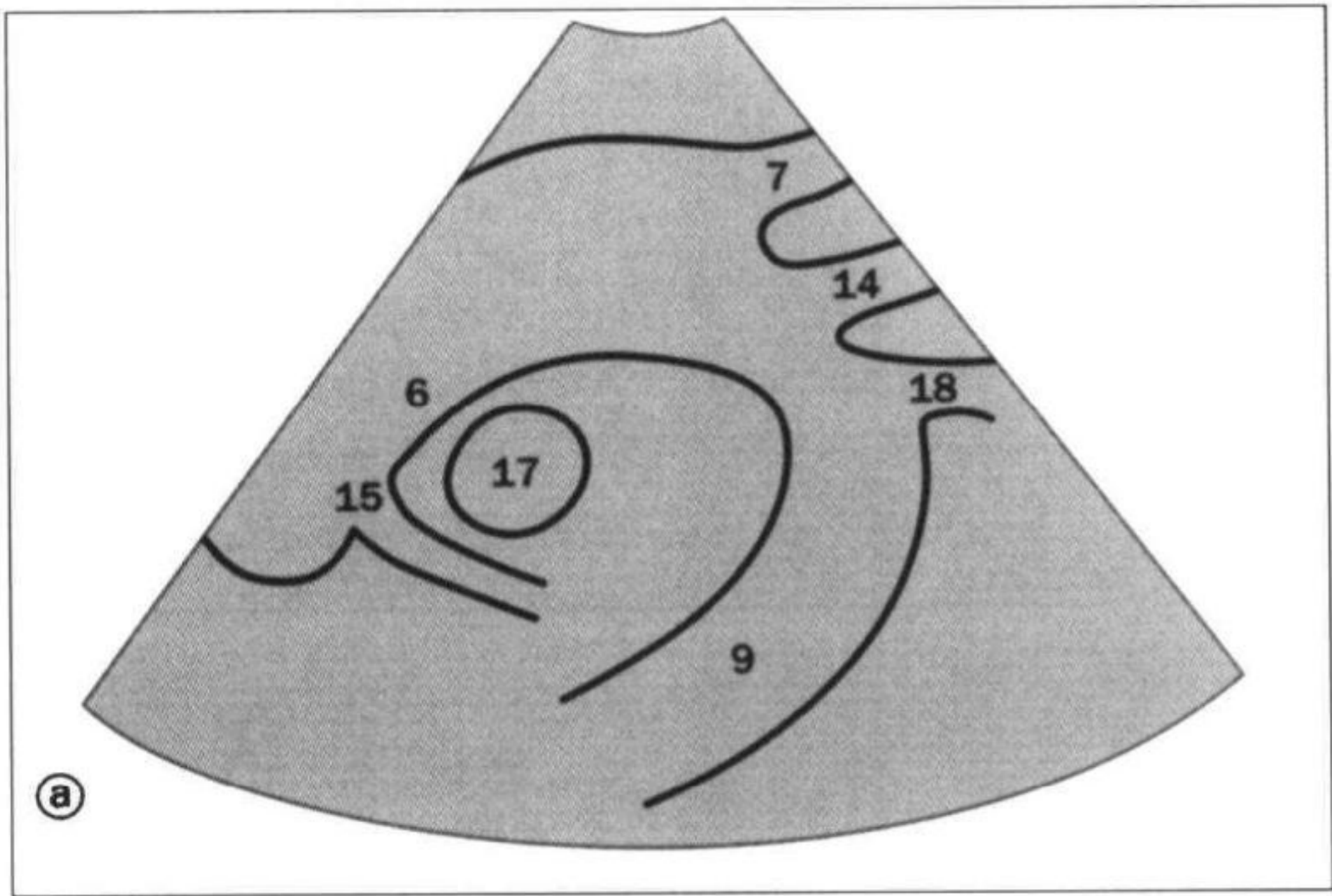
- 1 主动脉 aorta
- 2 主动脉窦 aortic sinus
- 3 主动脉瓣 aortic valve
- 4 左心室尖部 apex of the left ventricle
- 5 房室结支 atrioventricular nodal artery
- 6 左房支 branch to left atrium
- 7 旋支 circumflex artery
- 8 圆锥支 conus artery
- 9 对角支 diagonal arteries
- 10 旋动脉的第1钝缘支
first obtuse marginal branch of circumflex artery
- 11 左心室下壁
inferior wall of left ventricle
- 12 供应左心室的心室外侧支
lateral ventricular branch to left ventricle

- 13 绕过心尖的左前室间支 left anterior interventricular artery curving round apex of heart
- 14 左前室间支 (左前降支) left anterior interventricular branch (left anterior descending)
- 15 左冠状动脉 left coronary artery
- 16 左冠状动脉主干 left main stem coronary artery
- 17 左心室腔 left ventricular cavity
- 18 左心室流出道 left ventricular outflow tract
- 19 二尖瓣 mitral valve
- 20 后室间支 (后降支) posterior interventricular septal artery (posterior descending artery)
- 21 右冠状动脉 right coronary artery
- 22 右缘支 right marginal arteries
- 23 隔动脉 septal arteries
- 24 窦房结支 sinoatrial nodal artery

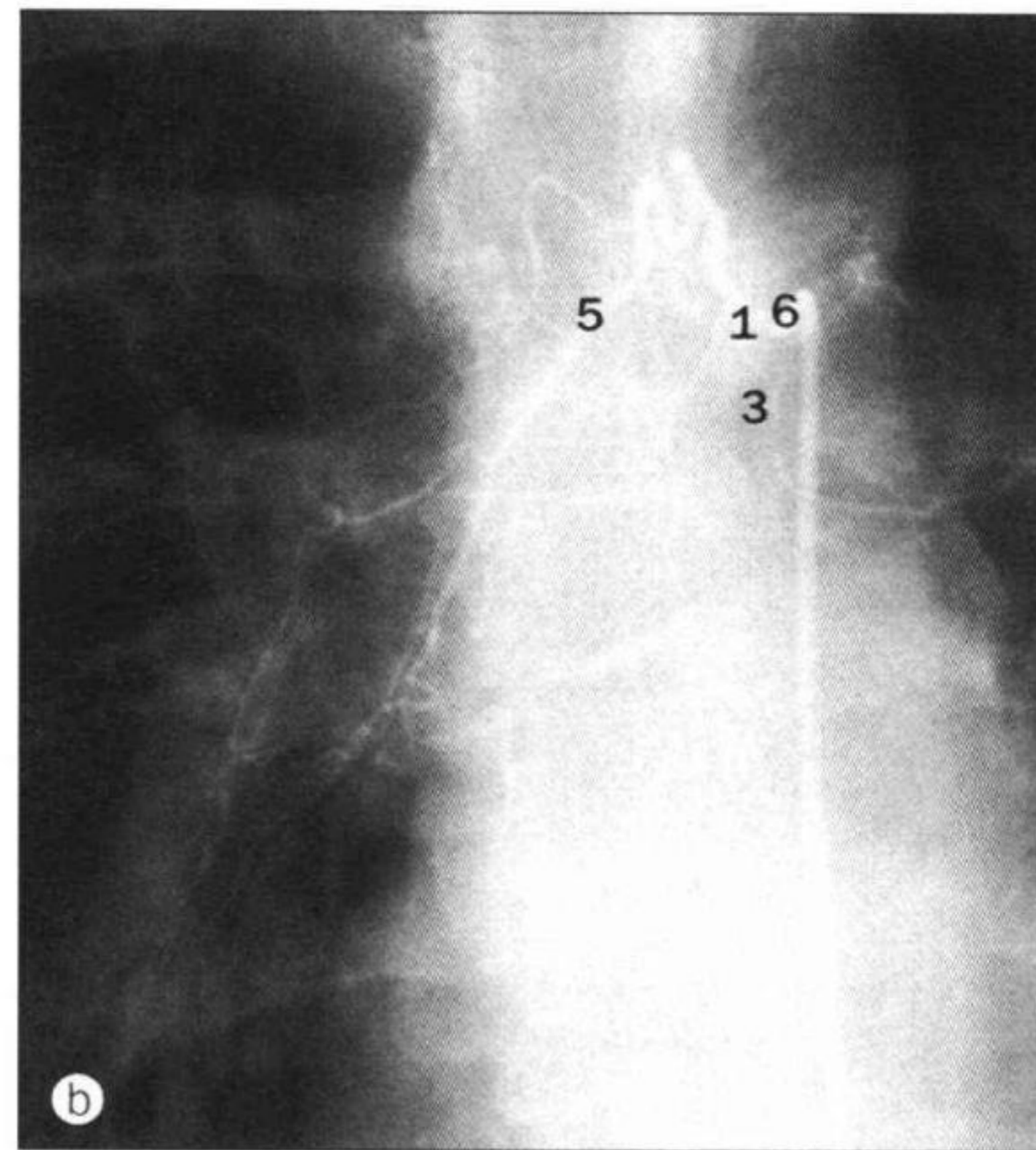
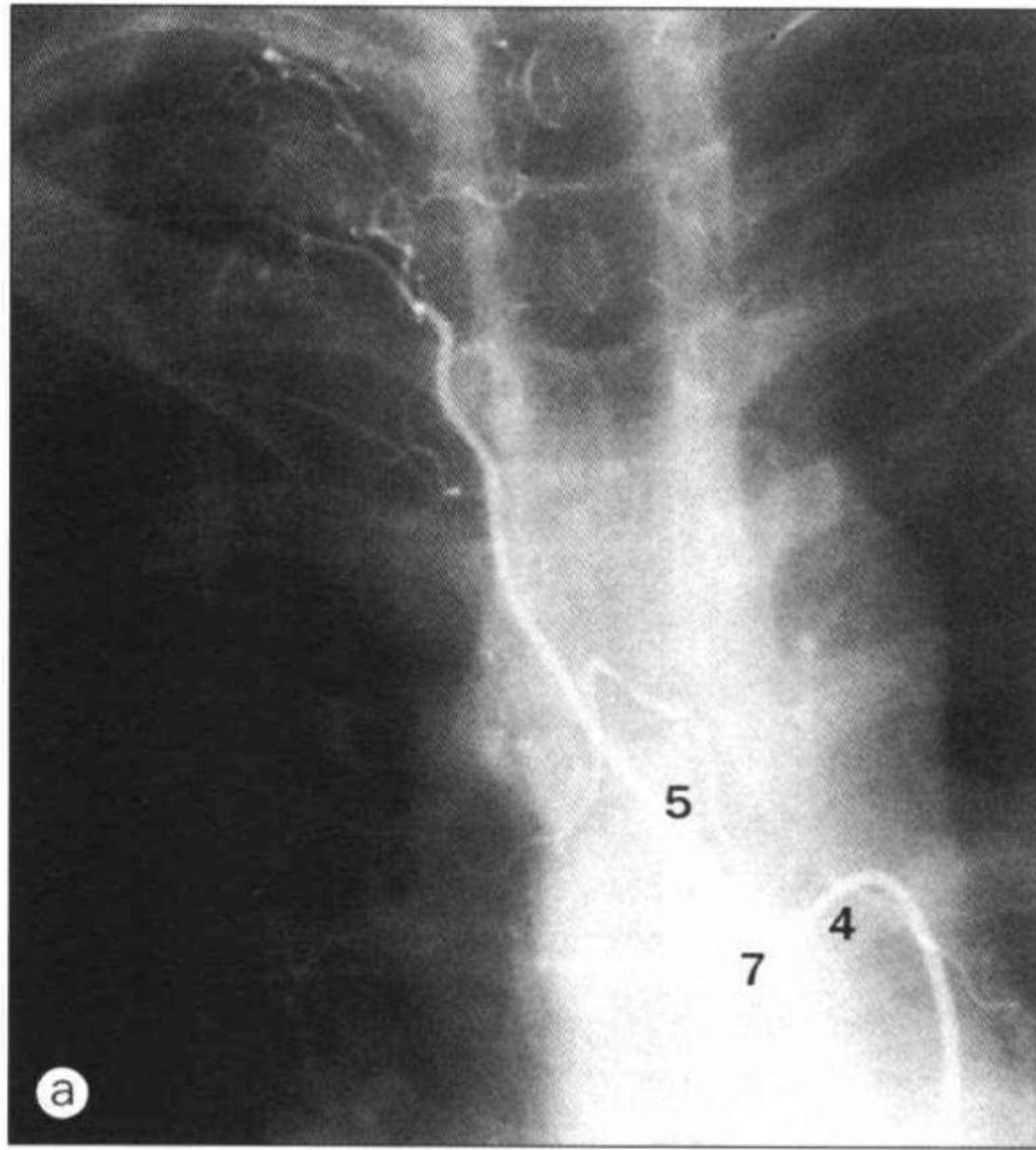


心，超声。a. 主动脉的胸骨上弓；b. 左心室位置的左胸骨旁长轴；c. 主动脉瓣位置的左胸骨旁短轴；d. 乳头肌位置的左胸骨旁短轴；e. 四腔的尖部；f. 肋下四腔。

- | | | |
|---|---|---|
| 1 二尖瓣前叶
anterior leaflet of the mitral valve | 11 房间隔 interatrial septum | 23 心肌 myocardium |
| 2 右心室前壁
anterior wall of right ventricle | 12 室间隔 interventricular septum | 24 乳头肌 papillary muscles |
| 3 主动脉 aorta | 13 左心房 left atrium | 25 心包 pericardium |
| 4 主动脉窦 aortic sinus | 14 左颈总动脉 left common carotid artery | 26 二尖瓣后叶
posterior leaflet of the mitral valve |
| 5 主动脉瓣 aortic valve | 15 左冠状动脉 left coronary artery | 27 肺动脉瓣 pulmonary valve |
| 6 升主动脉 ascending aorta | 16 肝左叶 left lobe of liver | 28 肺静脉 pulmonary vein |
| 7 头臂干 brachiocephalic trunk | 17 左肺动脉 left pulmonary artery | 29 右心房 right atrium |
| 8 腱索 chordae tendineae | 18 左锁骨下动脉 left subclavian artery | 30 右心室 right ventricle |
| 9 降主动脉 descending aorta | 19 左心室 left ventricle | 31 右心室腔 right ventricular cavity |
| 10 左心室前壁
inferior wall of left ventricle | 20 左心室腔 left ventricular cavity | 32 右心室流出道
right ventricular outflow tract |
| | 21 左心室流出道
left ventricular outflow tract | 33 三尖瓣 tricuspid valve |
| | 22 二尖瓣 mitral valve | |



上页影像对应线条示意图。

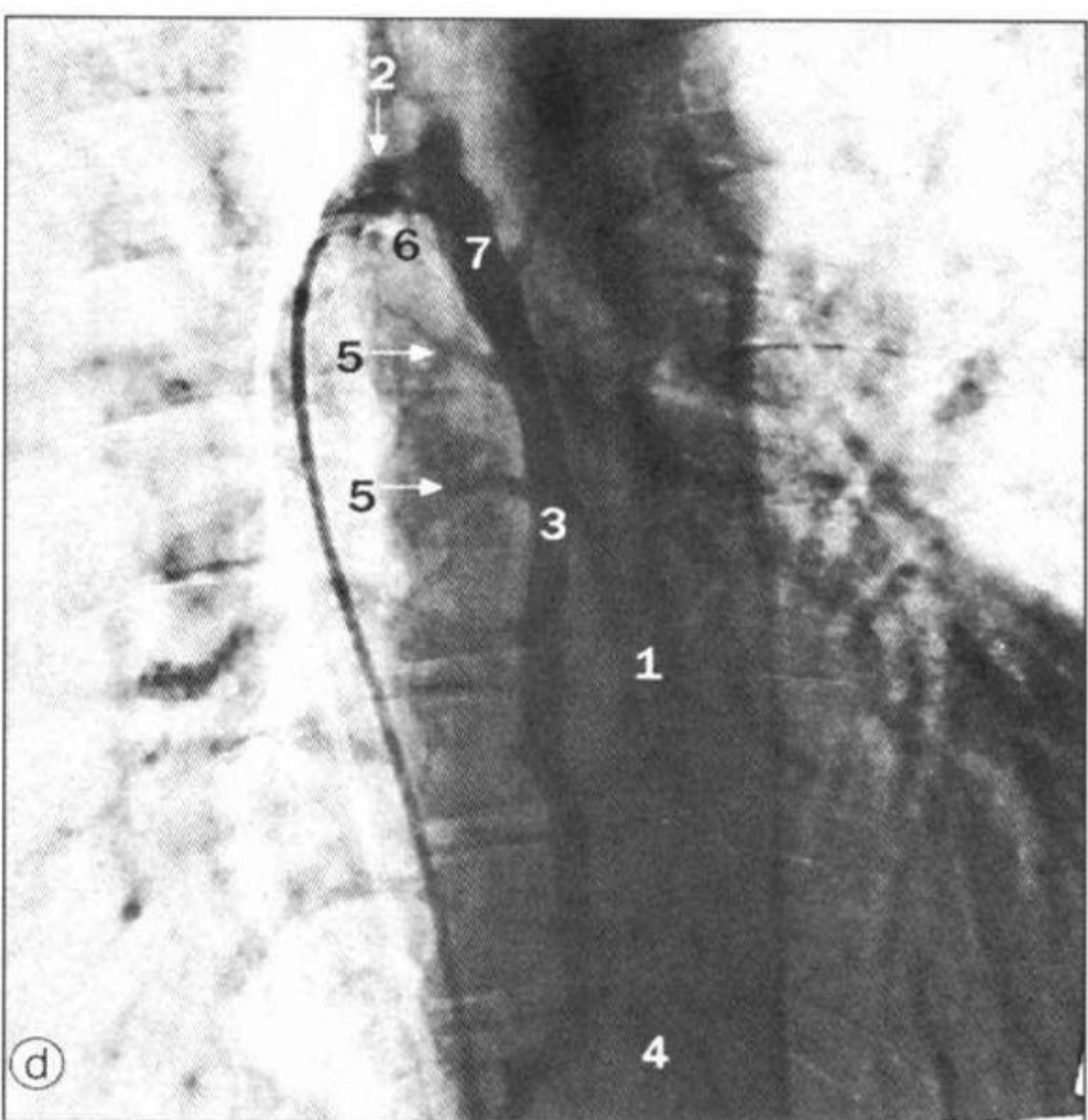


- 1 支气管动脉干
common bronchial trunk
- 2 肋间动脉
intercostal artery
- 3 左支气管支
left bronchial branches
- 4 左支气管动脉的返流充盈
reflux filling of left
bronchial artery
- 5 右支气管动脉
right bronchial artery
- 6 支气管动脉干内的导管头
tip of catheter in common
bronchial arterial trunk
- 7 肋间支气管干内的导管头
tip of catheter in
intercostobronchial trunk



a~c. 右支气管动脉造影。

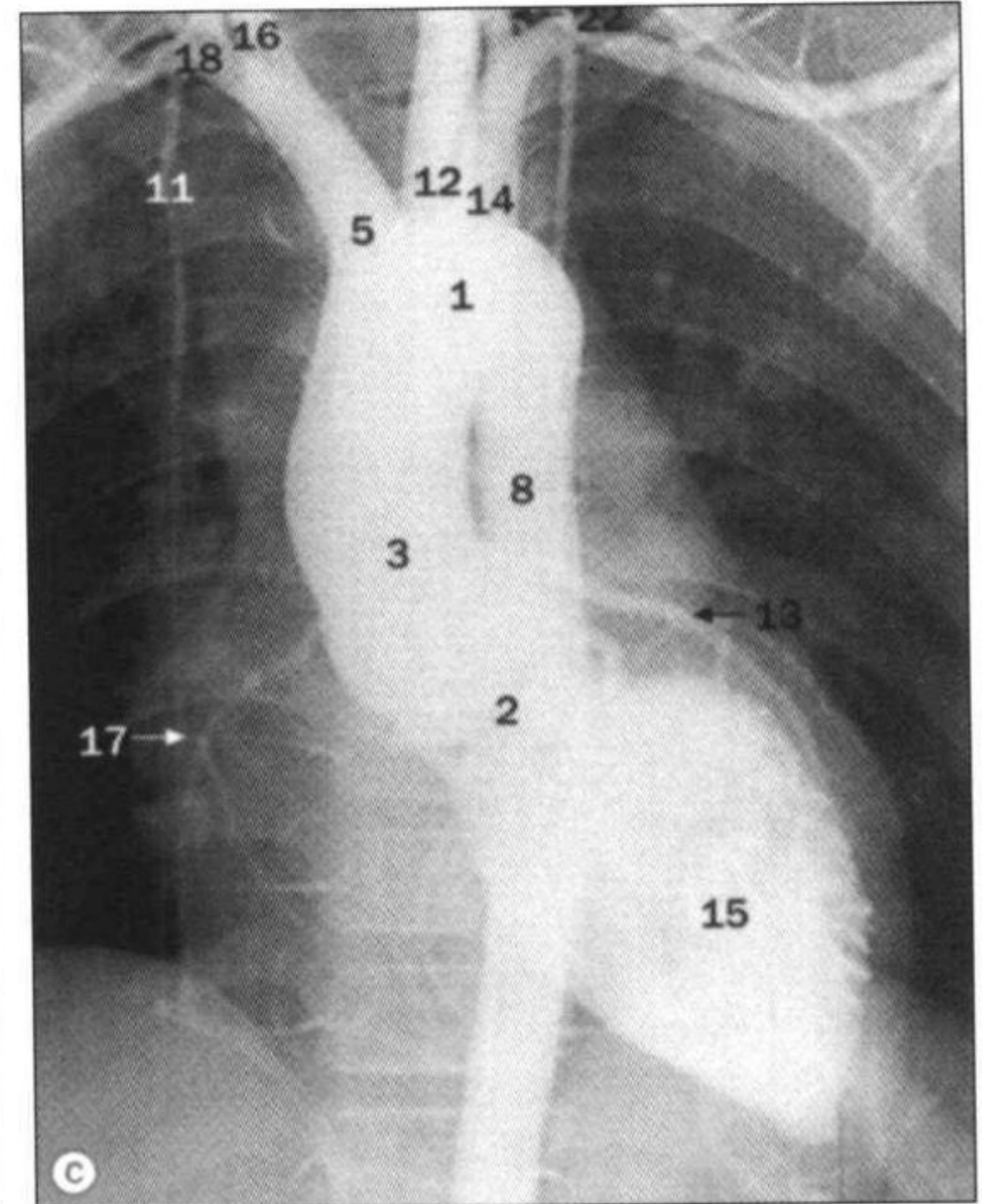
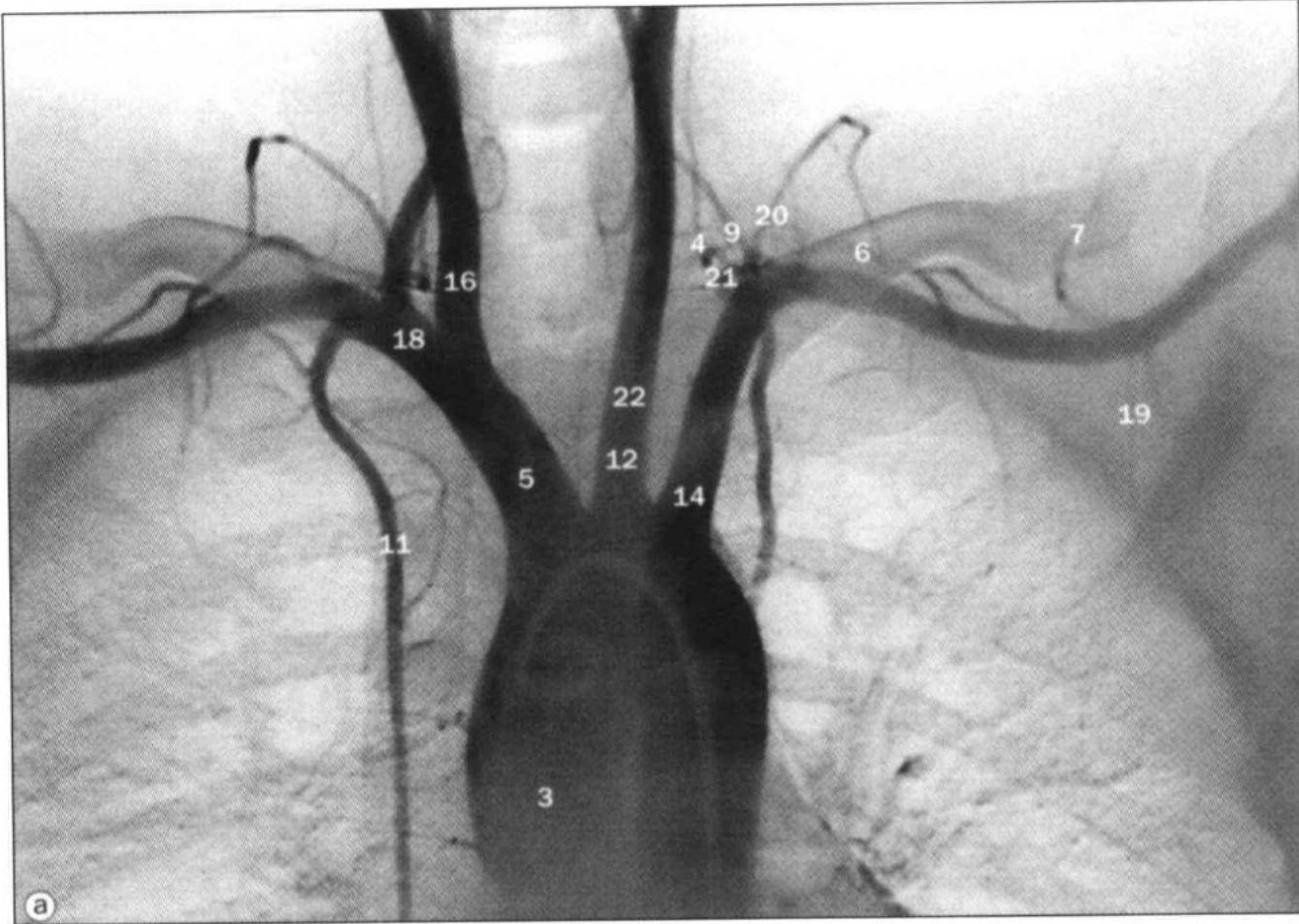
支气管动脉有许多解剖学上的变异，多数变异在第5胸椎上缘与第6胸椎下缘之间的左主支气管水平的降主动脉胸段。每侧支气管动脉数量可有1~4支不等。通常是右肺1支，左肺2支。副支气管动脉可起源于头臂干、锁骨下动脉，或其他分支如心包支或食管支。有不少右支气管动脉起源于肋间支气管干，但这类肋间支气管干很短，几乎是立即移行为右支气管动脉，并穿过肺门和右第1肋间动脉。对比剂返流时左支气管动脉被显示。图b中可见第2支大的支气管动脉起源于主动脉前壁并分为左和右各1支支气管动脉。



d. 奇静脉造影。

在胸部，椎静脉汇入肋间静脉；而腰部，腰静脉汇入腰升静脉。右侧腰升静脉移行为奇静脉进入胸腔，左侧则移行为半奇静脉。奇静脉在第4胸椎水平转向前进入上腔静脉。半奇静脉在第8或第9胸椎水平汇入奇静脉。副奇静脉在下方与半奇静脉相连，而在上方汇集左肋间上静脉血液。

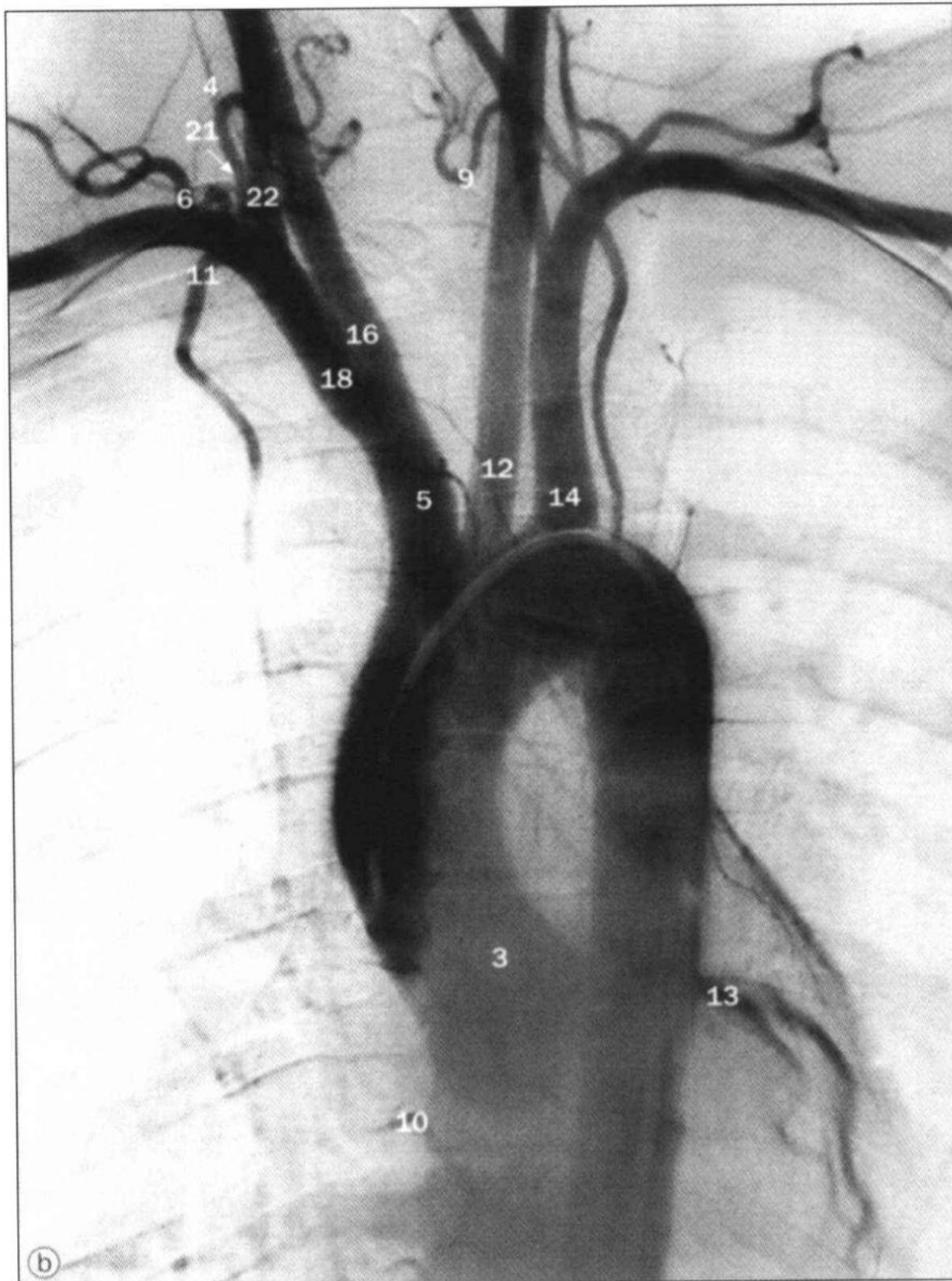
- 1 副半奇静脉
accessory hemiazygos vein
- 2 奇静脉弓 azygos arch
- 3 奇静脉 azygos vein
- 4 半奇静脉
hemiazygos vein
- 5 肋间静脉 intercostal veins
- 6 心脏运动和导管移位造成的伪影
subtraction artefact caused by cardiac and
catheter movement
- 7 通过股静脉进入上腔静脉
和奇静脉的导管头
tip of catheter introduced
via femoral vein into
superior vena cava and
azygos vein



a. 主动脉弓造影减影，前后位。

椎动脉独立起源于主动脉弓，在这张片上，与左颈总动脉重叠，这是正常变异。

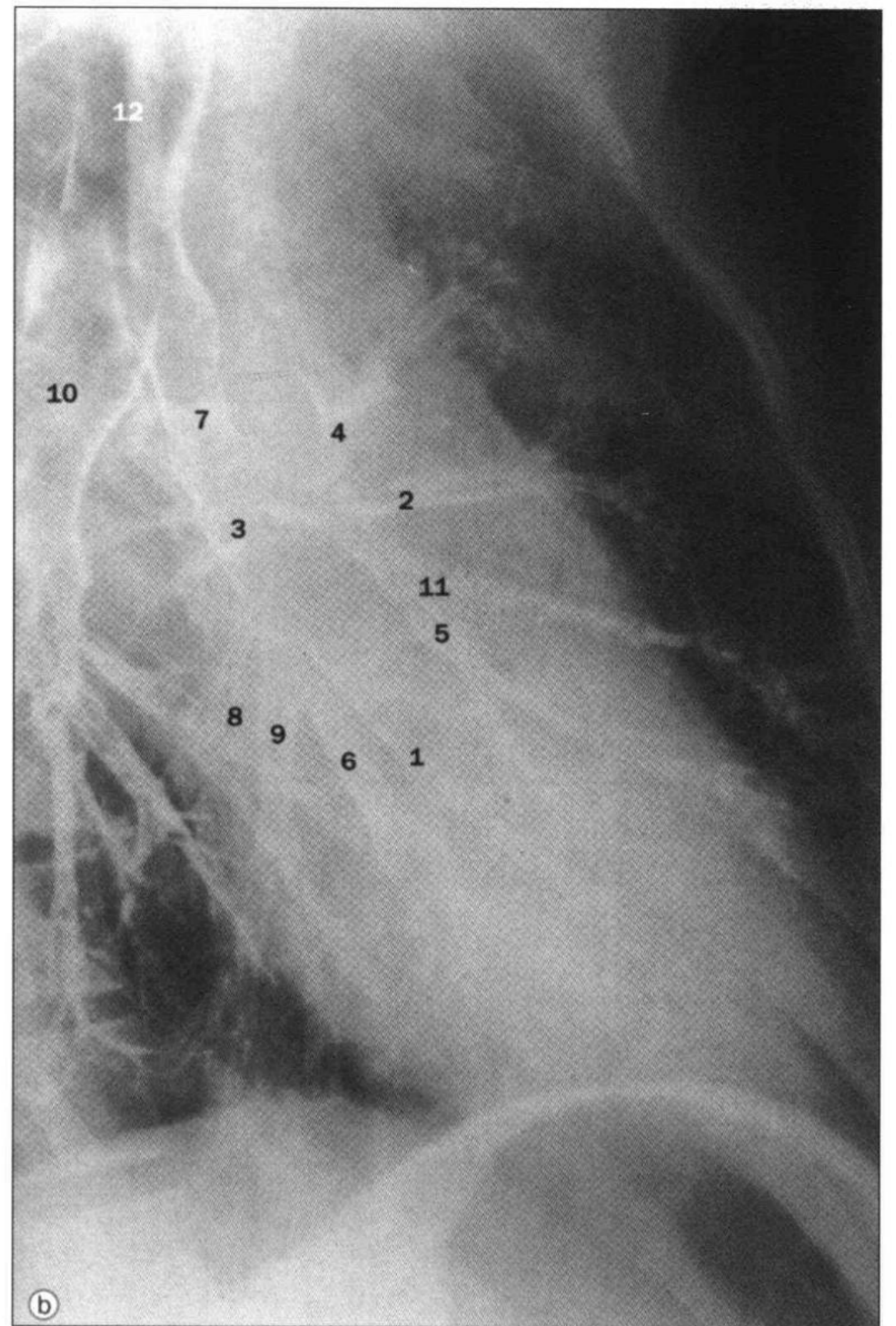
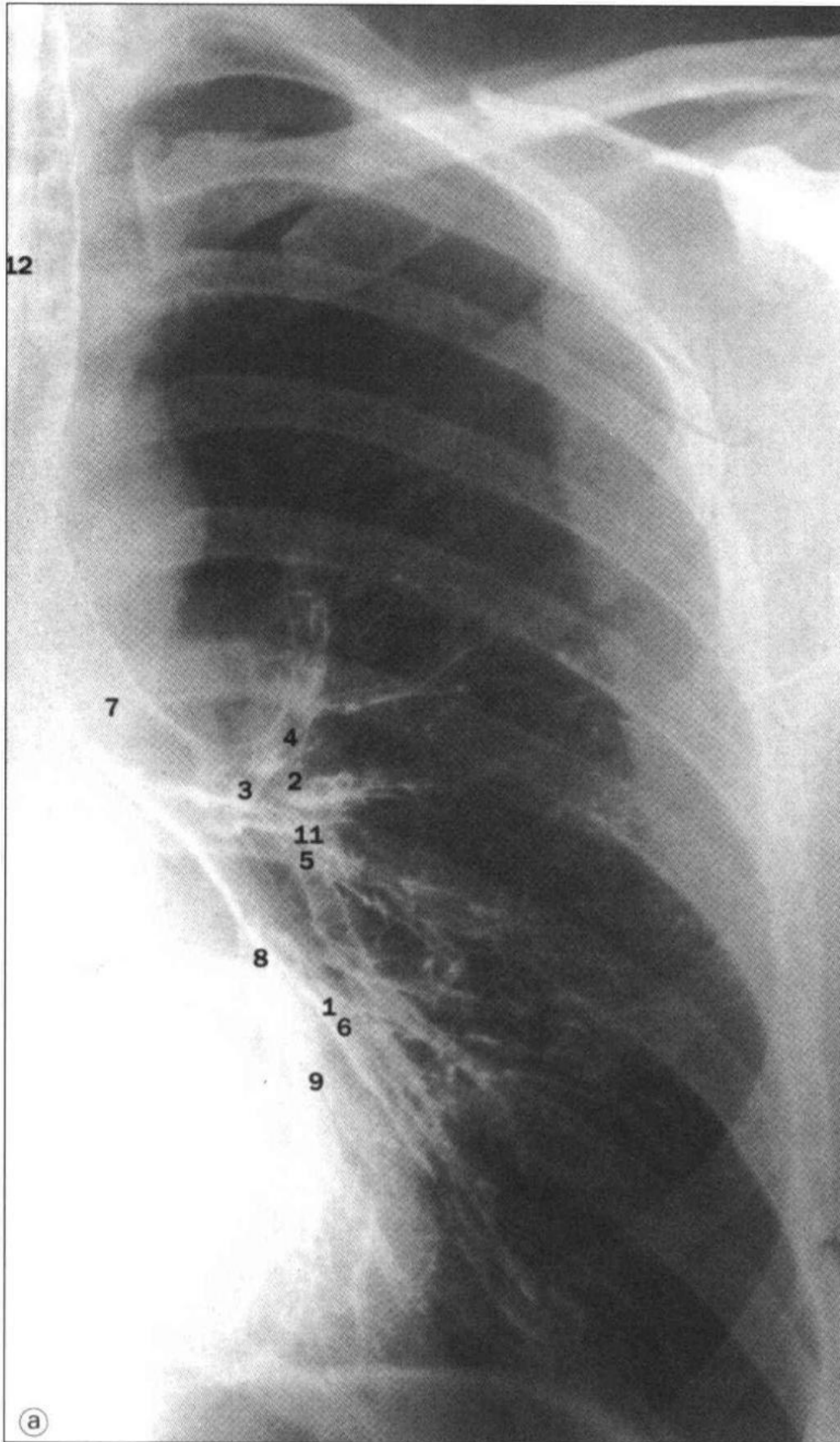
c. 左心室造影。



b. 主动脉弓造影减影，左前斜位。

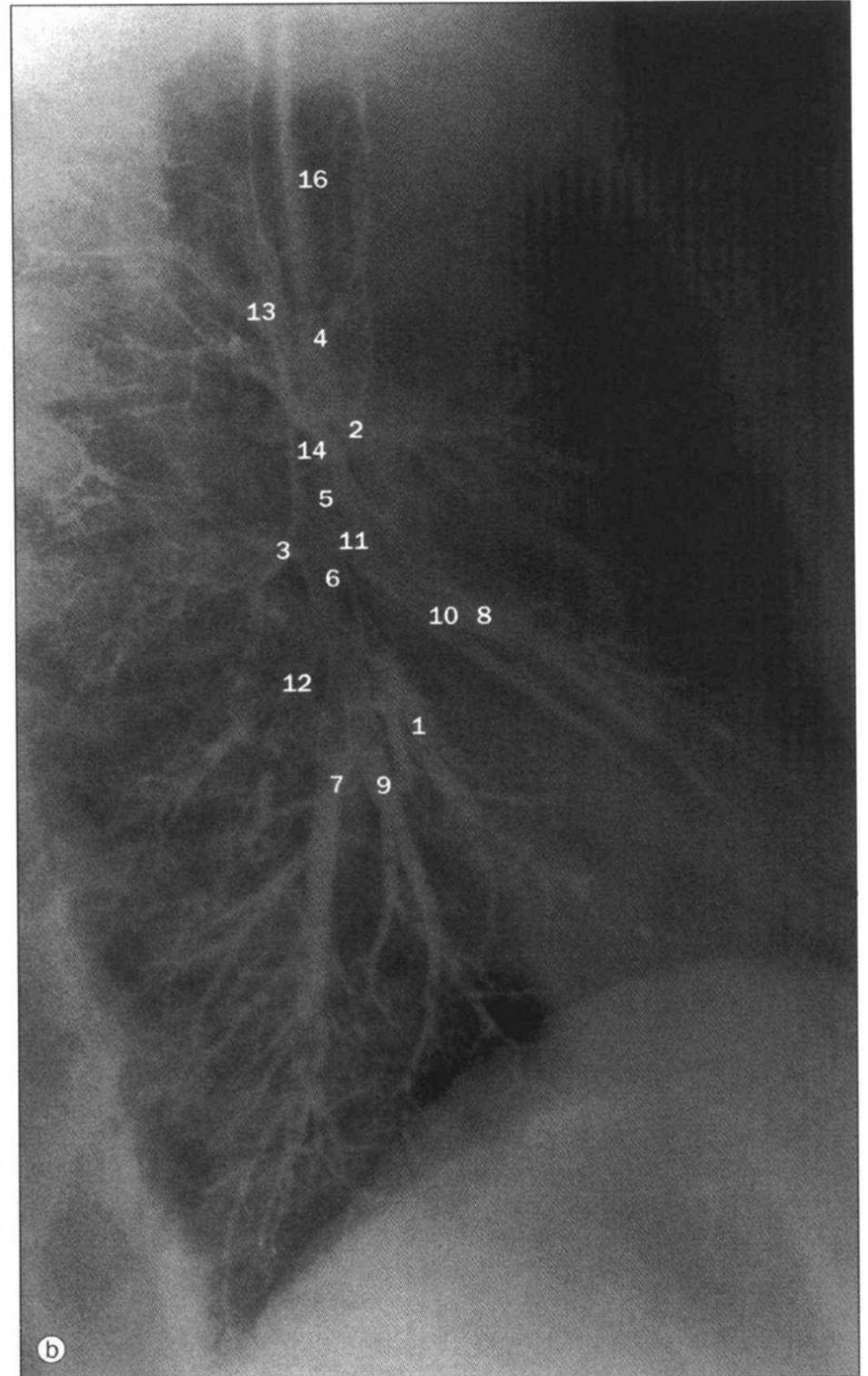
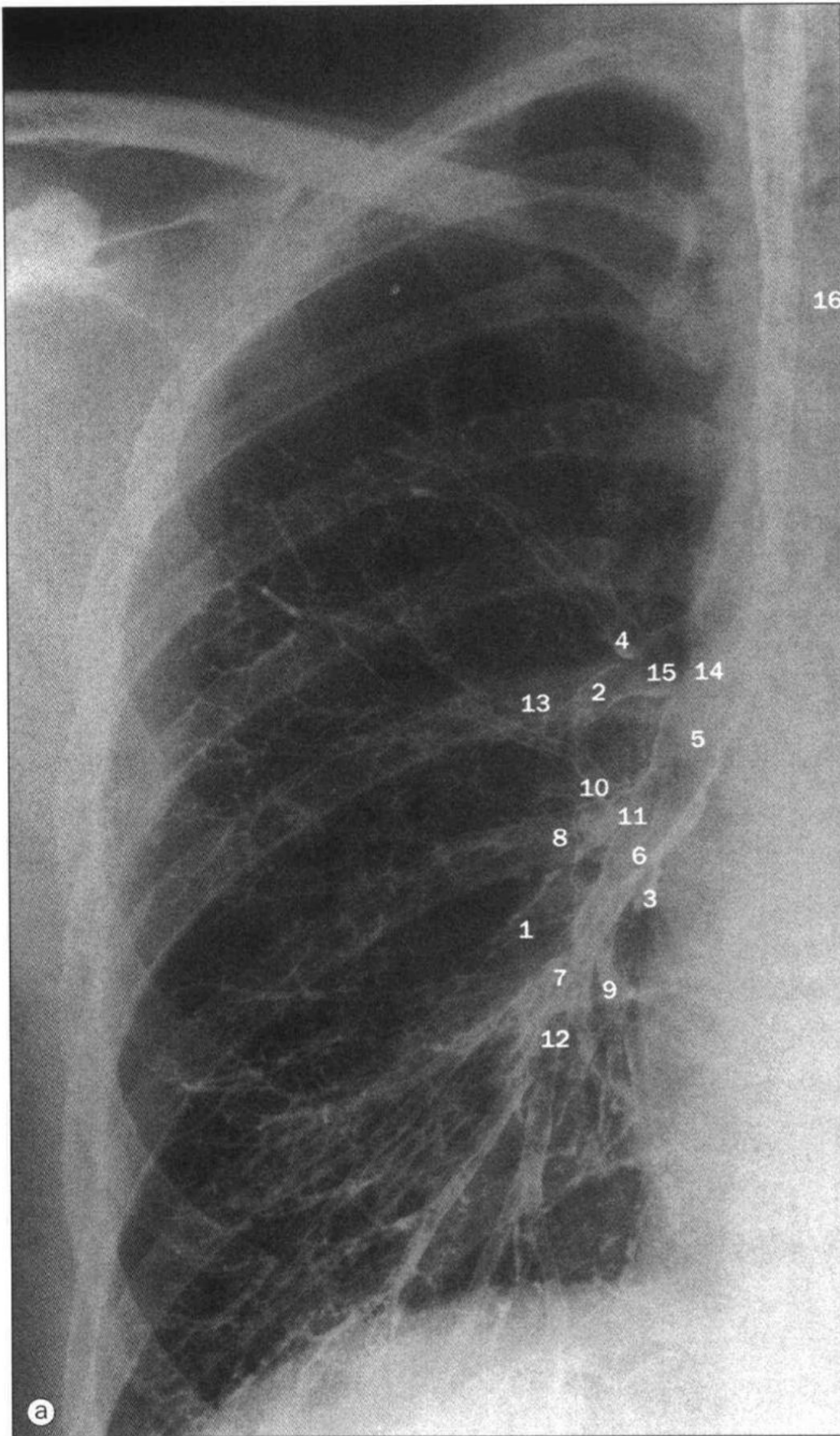
主动脉上方的分支在左前斜位时显示最清楚，这个位置血管起源不会重叠。在主动脉弓上的主要血管起源有许多变异，而本图显示的是最常见的情况。

- 1 主动脉弓 aortic arch
- 2 主动脉瓣 aortic valve
- 3 升主动脉 ascending aorta
- 4 颈动脉升部 ascending cervical artery
- 5 头臂干 brachiocephalic trunk
- 6 肋颈干 costocervical trunk
- 7 胸肩峰动脉的三角支 deltoid branch of thoracoacromial artery
- 8 降主动脉 descending aorta
- 9 甲状腺下动脉 inferior thyroid artery
- 10 肋间动脉 intercostal artery
- 11 胸廓内动脉 internal thoracic artery
- 12 左颈总动脉 left common carotid artery
- 13 左冠状动脉 left coronary artery
- 14 左锁骨下动脉 left subclavian artery
- 15 左心室 left ventricle
- 16 右颈总动脉 right common carotid artery
- 17 右冠状动脉 right coronary artery
- 18 右锁骨下动脉 right subclavian artery
- 19 胸上动脉 superior thoracic artery
- 20 肩胛上动脉 suprascapular artery
- 21 甲状颈干 thyrocervical trunk
- 22 椎动脉 vertebral artery



左肺支气管造影。a. 后前位；b. 斜位。

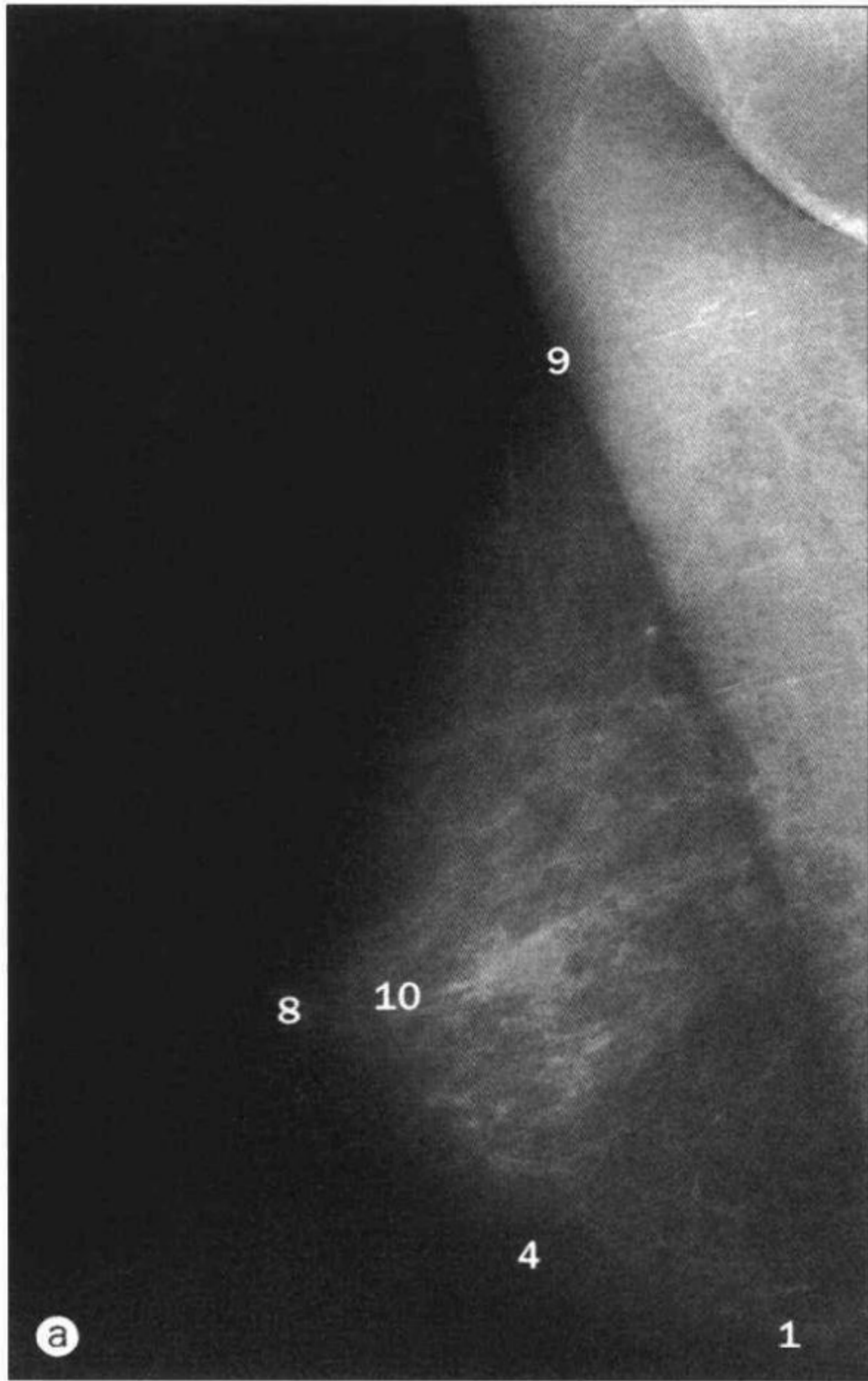
- | | | |
|----|----------|--------------------------------------|
| 1 | 前底段支气管 | anterior basal segmental bronchus |
| 2 | 前段支气管 | anterior segmental bronchus |
| 3 | 尖(上)段支气管 | apical (superior) segmental bronchus |
| 4 | 尖后段支气管 | apicoposterior segmental bronchus |
| 5 | 下舌段支气管 | inferior lingular segmental bronchus |
| 6 | 外侧底段支气管 | lateral basal segmental bronchus |
| 7 | 左主支气管 | left main bronchus |
| 8 | 内侧底段支气管 | medial basal segmental bronchus |
| 9 | 后底段支气管 | posterior basal segmental bronchus |
| 10 | 右主支气管 | right main bronchus |
| 11 | 上舌段支气管 | superior lingular segmental bronchus |
| 12 | 气管 | trachea |



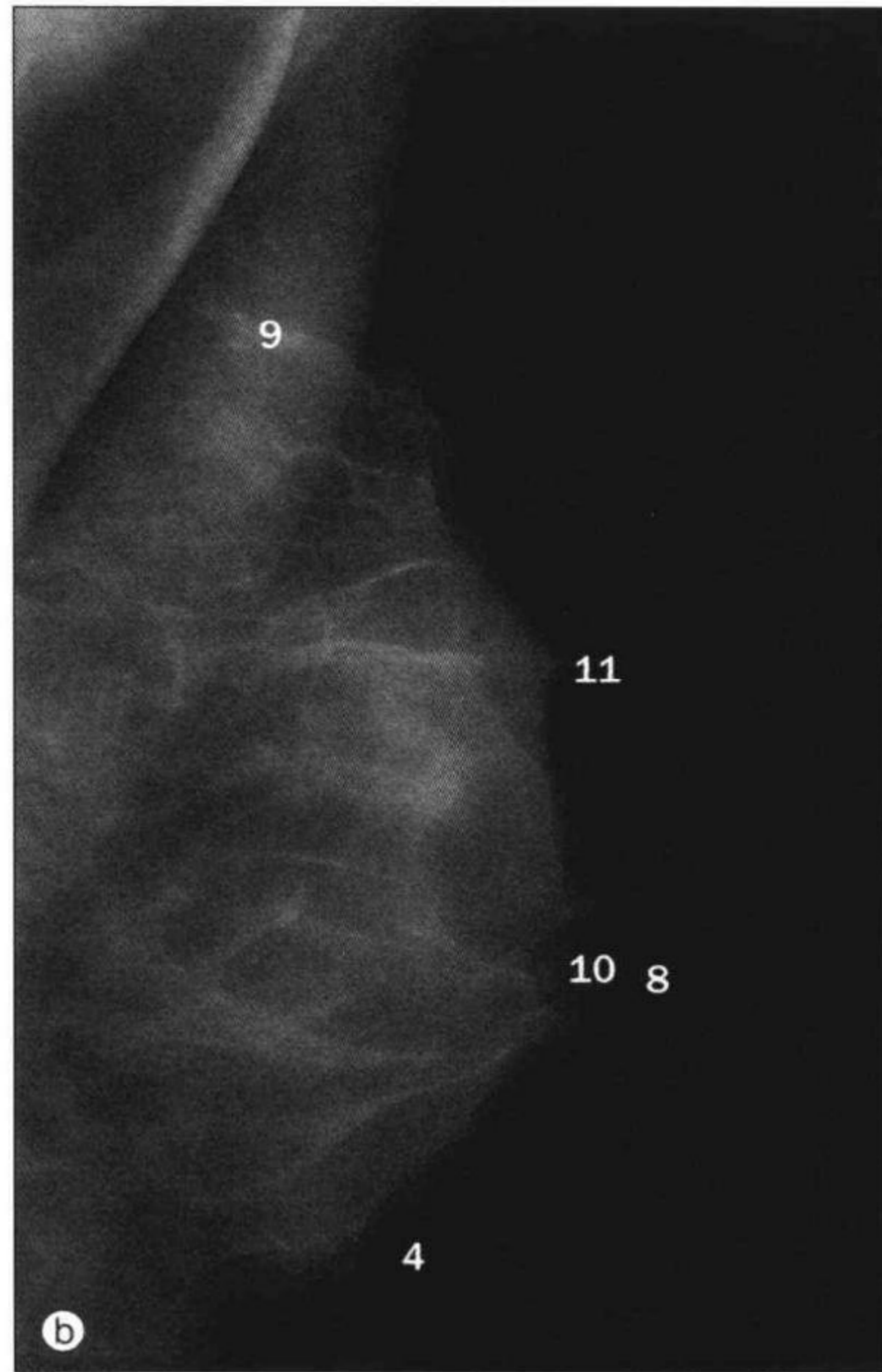
右肺支气管造影。a. 后前位；b. 侧位。

- 1 前底段支气管 anterior basal segmental bronchus
- 2 前段支气管 anterior segmental bronchus
- 3 尖(上)段支气管 apical (superior) segmental bronchus
- 4 尖段支气管 apical segmental bronchus
- 5 中间支气管 bronchus intermedius
- 6 下叶支气管 inferior lobe bronchus
- 7 外侧底段支气管 lateral basal segmental bronchus
- 8 中叶外侧段支气管
lateral segmental bronchus of middle lobe

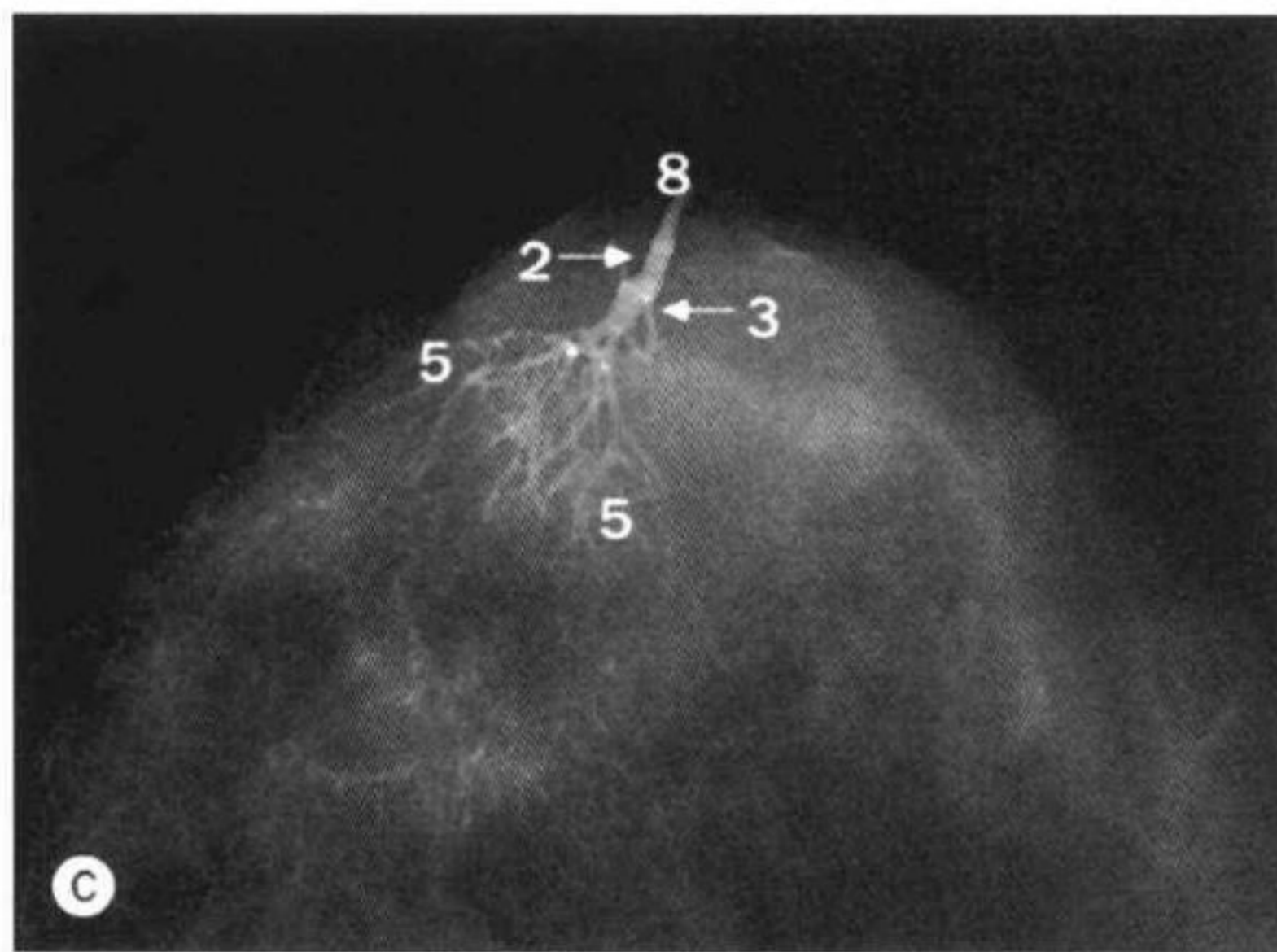
- 9 内侧底段支气管 medial basal segmental bronchus
- 10 中叶内侧段支气管
medial segmental bronchus of middle lobe
- 11 中叶支气管 middle lobe bronchus
- 12 后底段支气管 posterior basal segmental bronchus
- 13 后段支气管 posterior segmental bronchus
- 14 右主支气管 right main bronchus
- 15 右上叶支气管 right superior lobe bronchus
- 16 气管 trachea



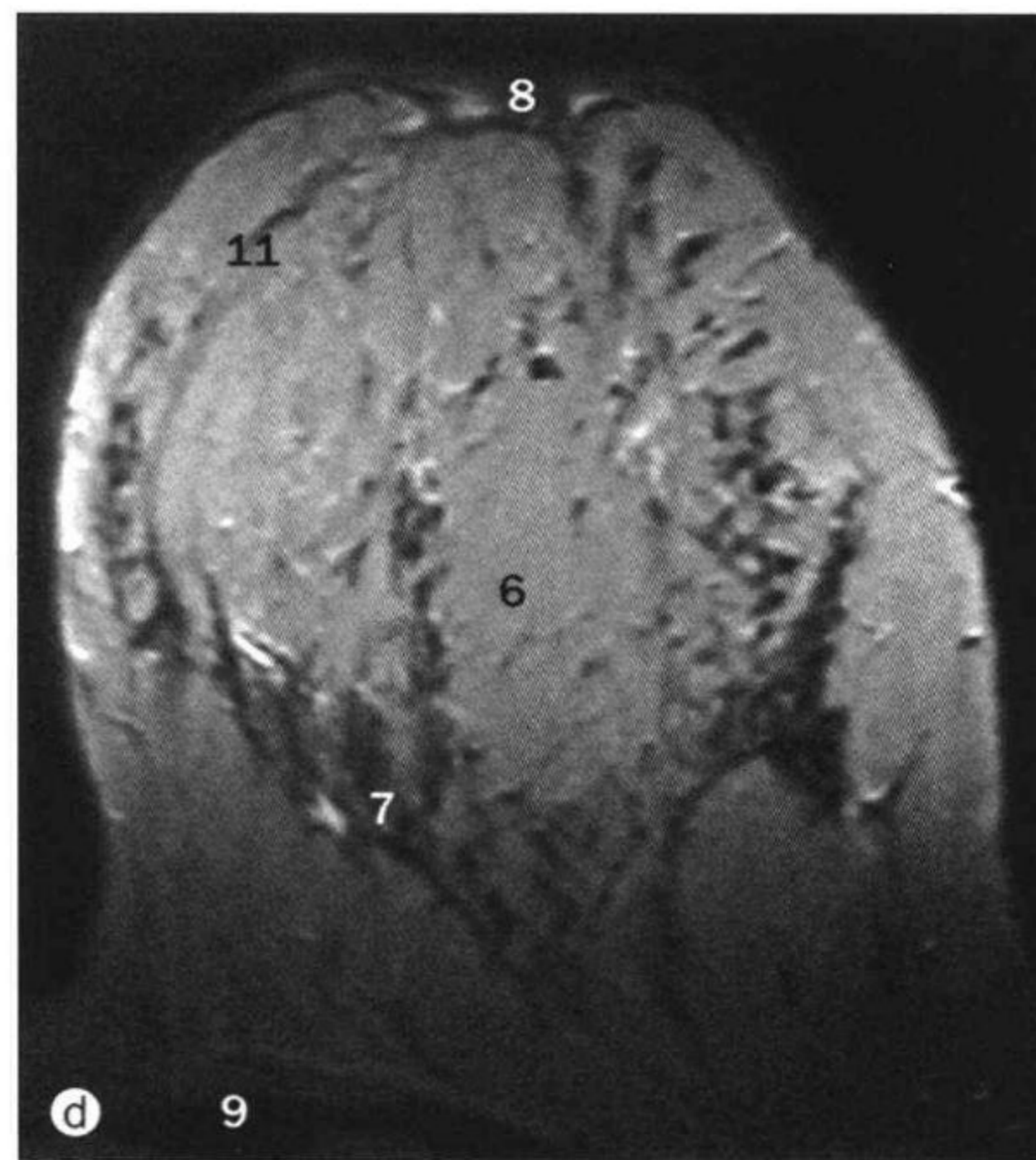
a. 绝经后期右侧乳房，中间外侧斜位 X 线。



b. 绝经前期左侧乳房，外侧斜位 X 线。



c. 绝经前期右侧乳房，头尾向乳腺导管造影。



d. 乳腺，MRI。

1 乳房下皱襞 inframammary fold

2 输乳管 lactiferous duct

3 输乳窦 lactiferous sinus

4 皮肤线 (乳线) line of skin

5 小叶导管类型 (包括小叶导管和终末导管)
lobar duct pattern [comprising (intra) lobar
ducts and terminal ductal lobular units]

6 乳腺脂肪 mammary fat

7 乳腺间质组织

mammary fibroglandular tissue

8 乳头 nipple

9 胸肌 pectoral muscle

10 乳晕下区 subareolar area

11 悬韧带 suspensory ligament (Cooper's)

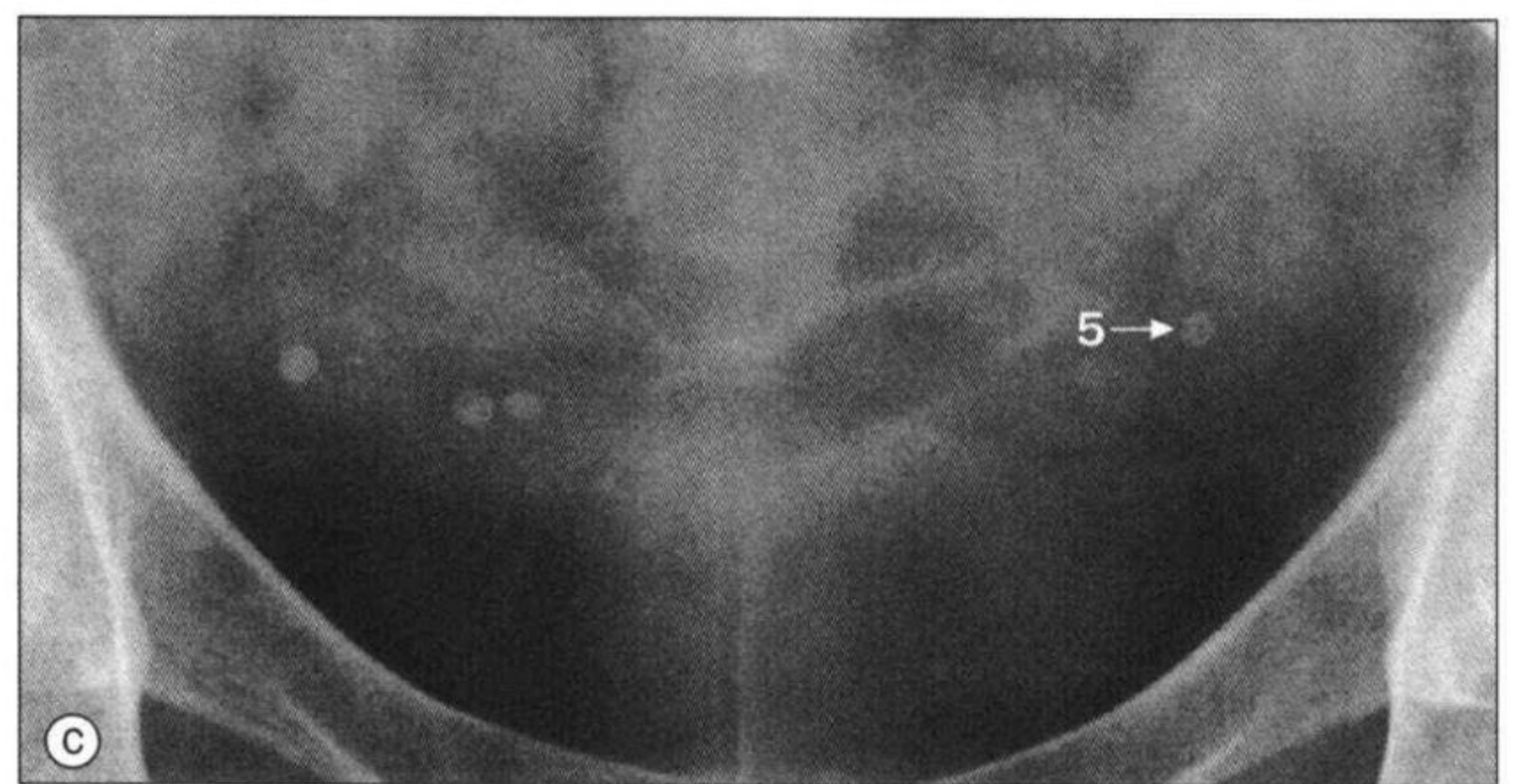
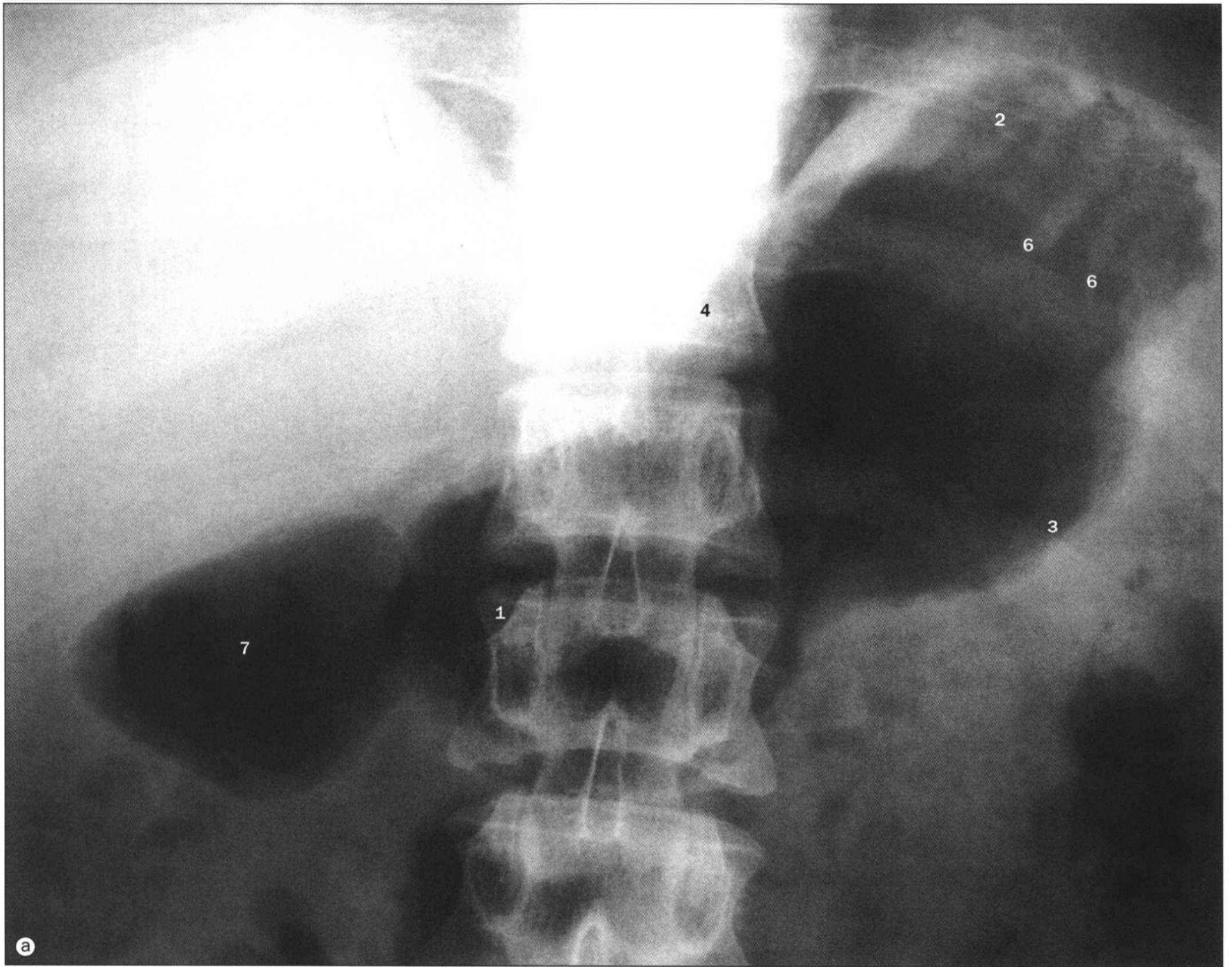
6

腹部

腹部，仰卧位 X 线。

- 1 盲肠和升结肠内气体
gas in caecum and
ascending colon
- 2 降结肠内气体
gas in descending colon
- 3 胃内气体 gas in stomach
- 4 左肾 left kidney
- 5 左腰大肌
left psoas muscle
- 6 右肾 right kidney
- 7 右腰大肌
right psoas muscle
- 8 第 12 肋 twelfth rib





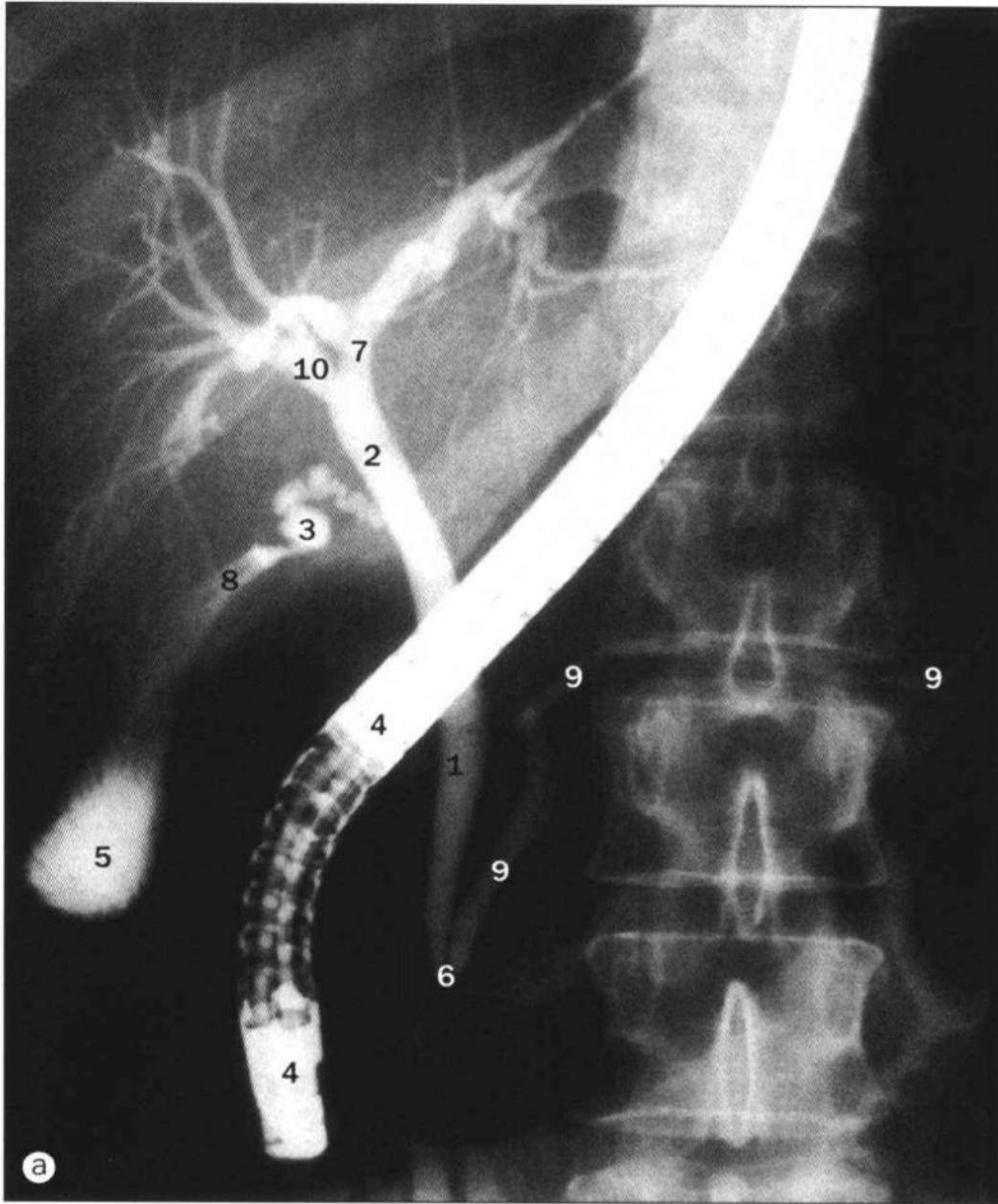
腹部，X线。

a. 显示胃和十二指肠上部内的气体。

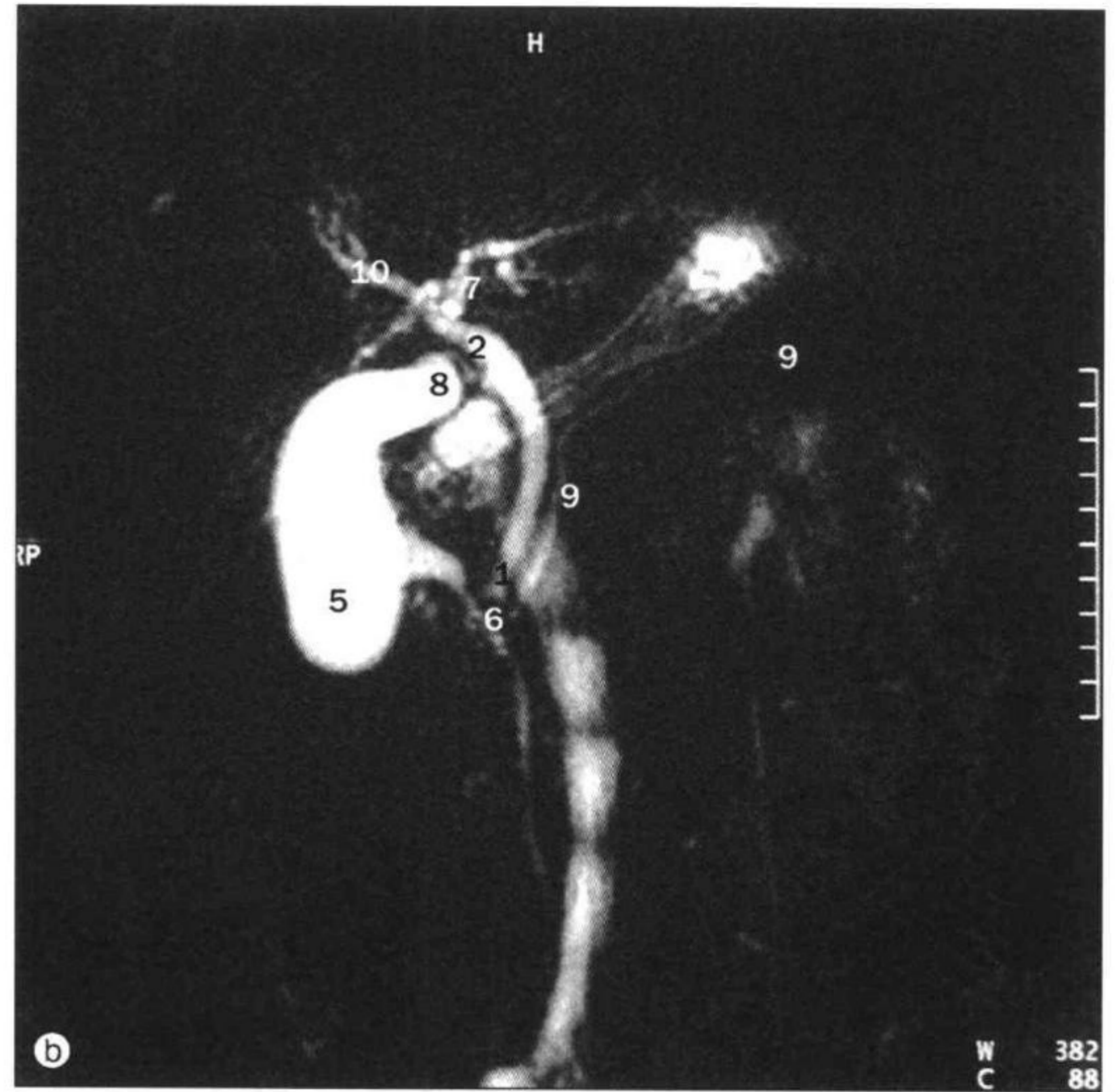
b. 显示钙化淋巴结。

c. 显示钙化盆静脉（静脉石），仰卧位。

- 1 胃窦 antrum of stomach
- 2 胃底 fundus
- 3 胃大弯 greater curvature of stomach
- 4 胃小弯 lesser curvature of stomach
- 5 静脉石 phlebolith
- 6 胃皱襞 rugae of stomach
- 7 十二指肠上部
superior (first) part of duodenum (duodenal cap)
- 8 钙化淋巴结 calcified lymph node

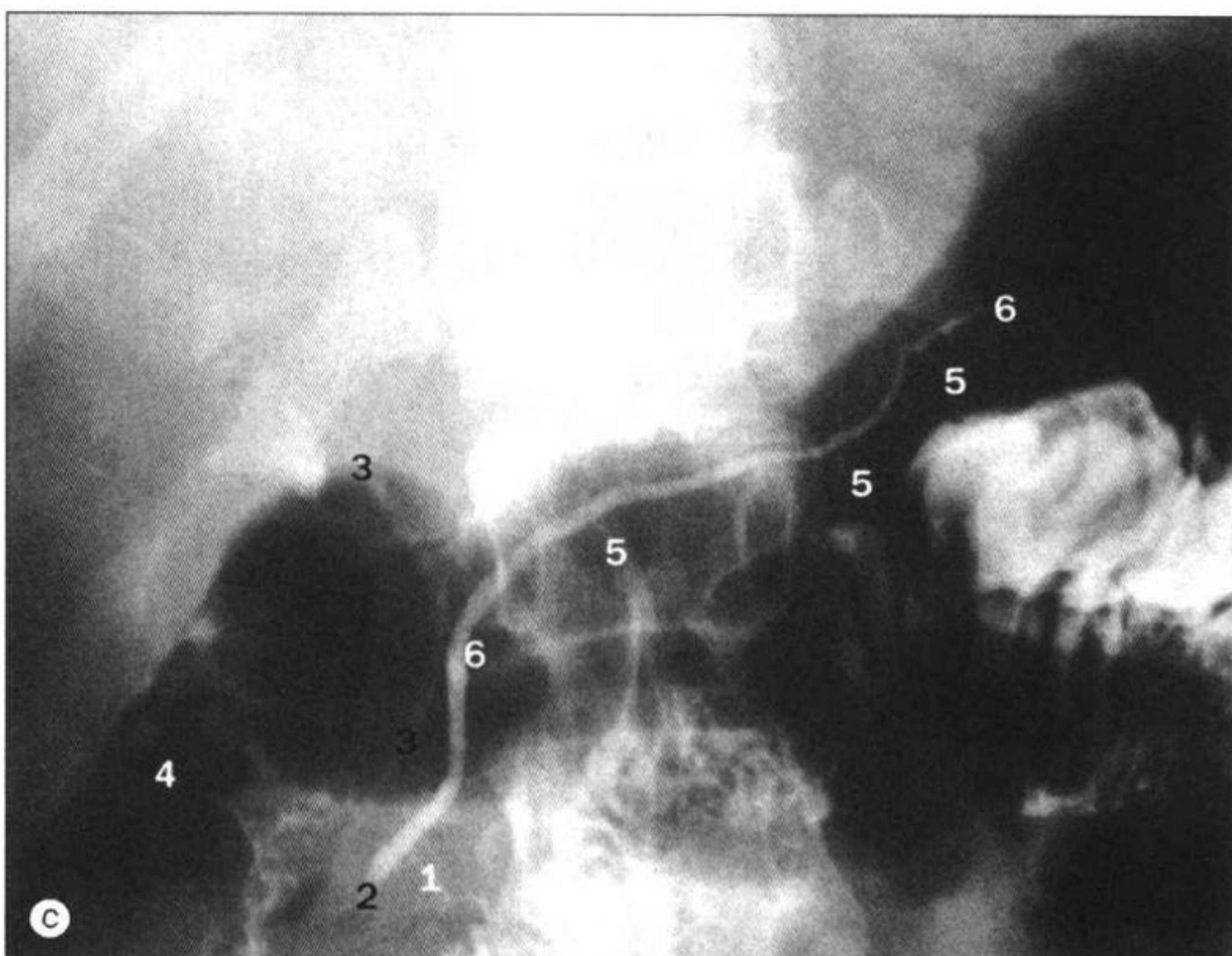


a. 内镜逆行胰胆管造影 (ERCP)。



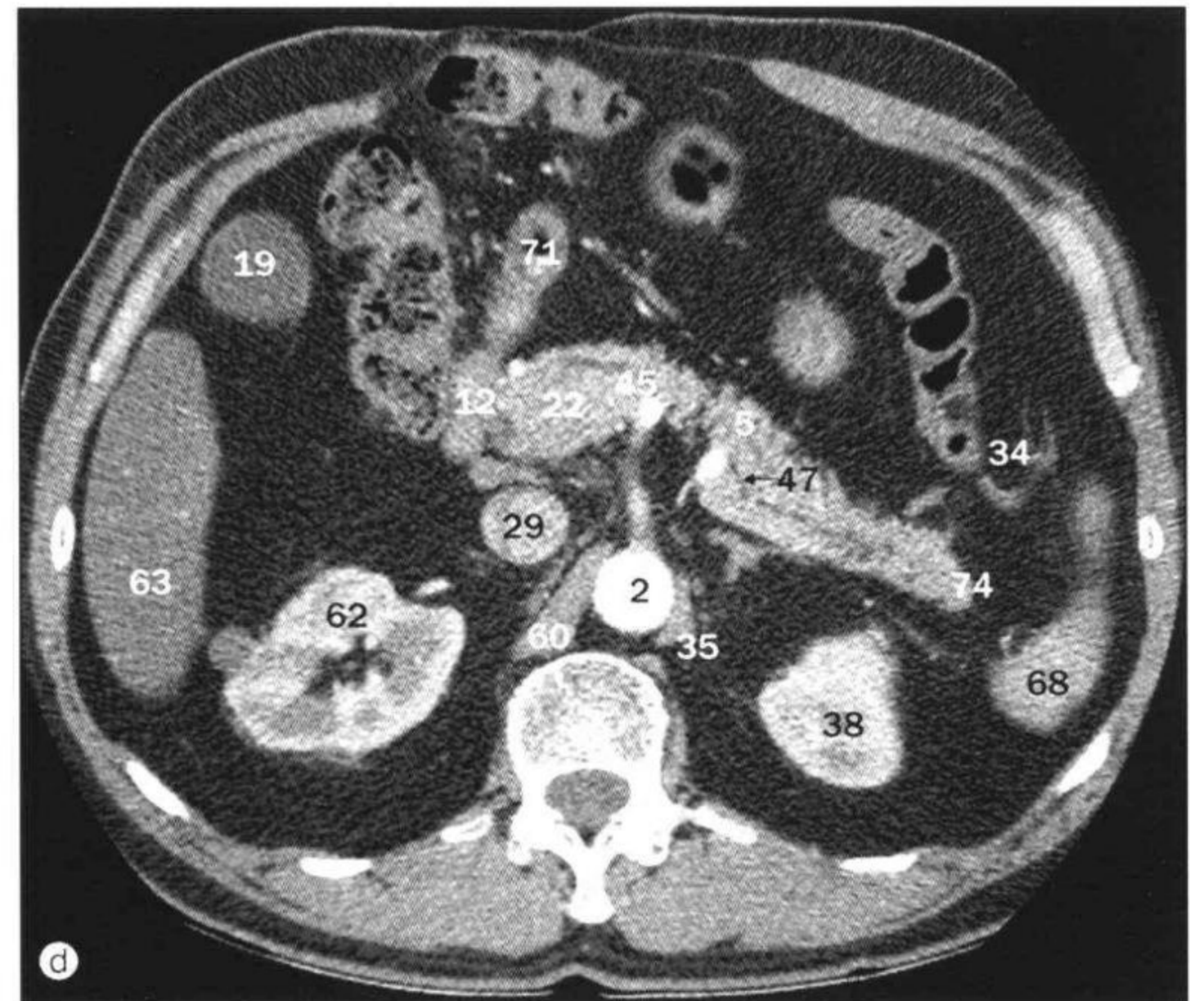
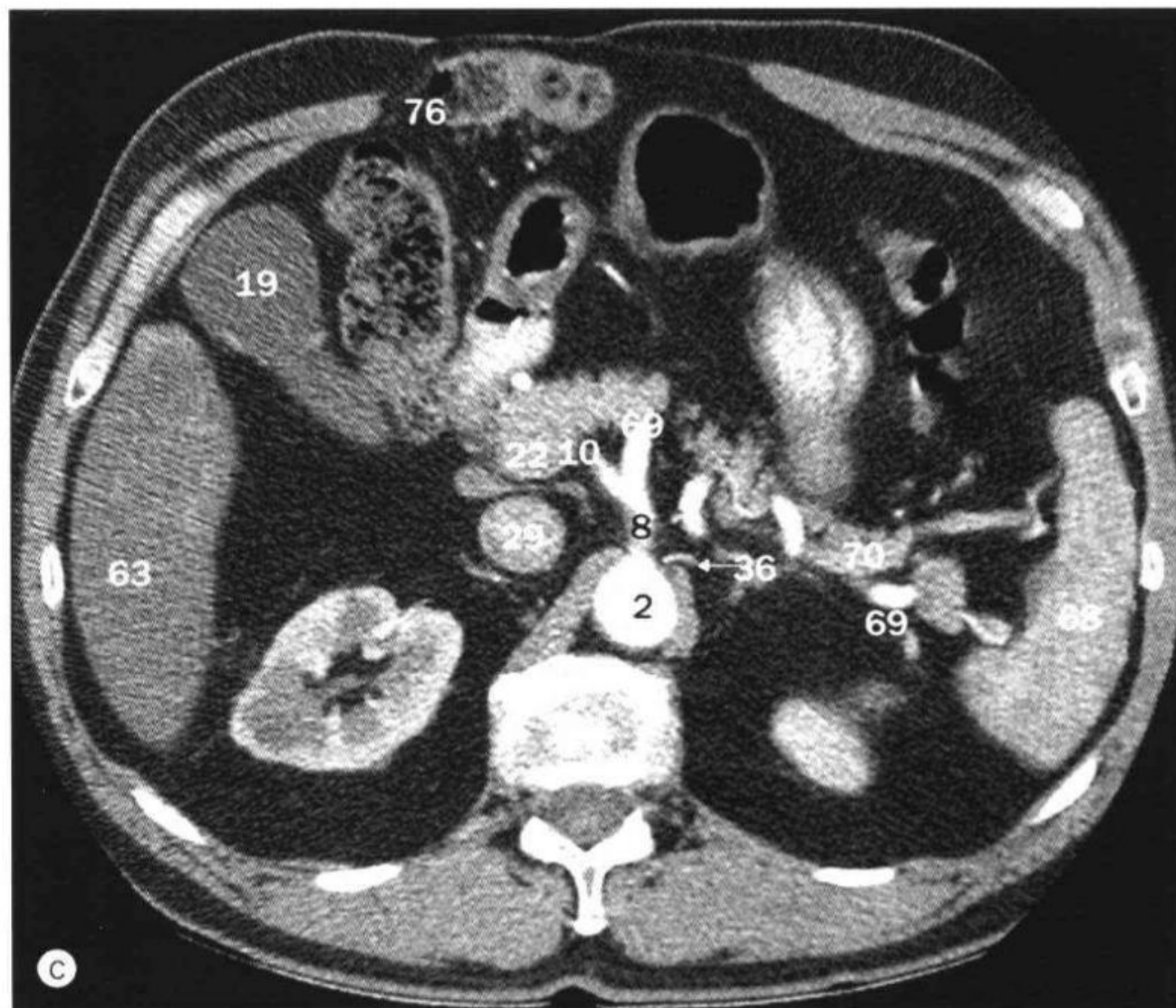
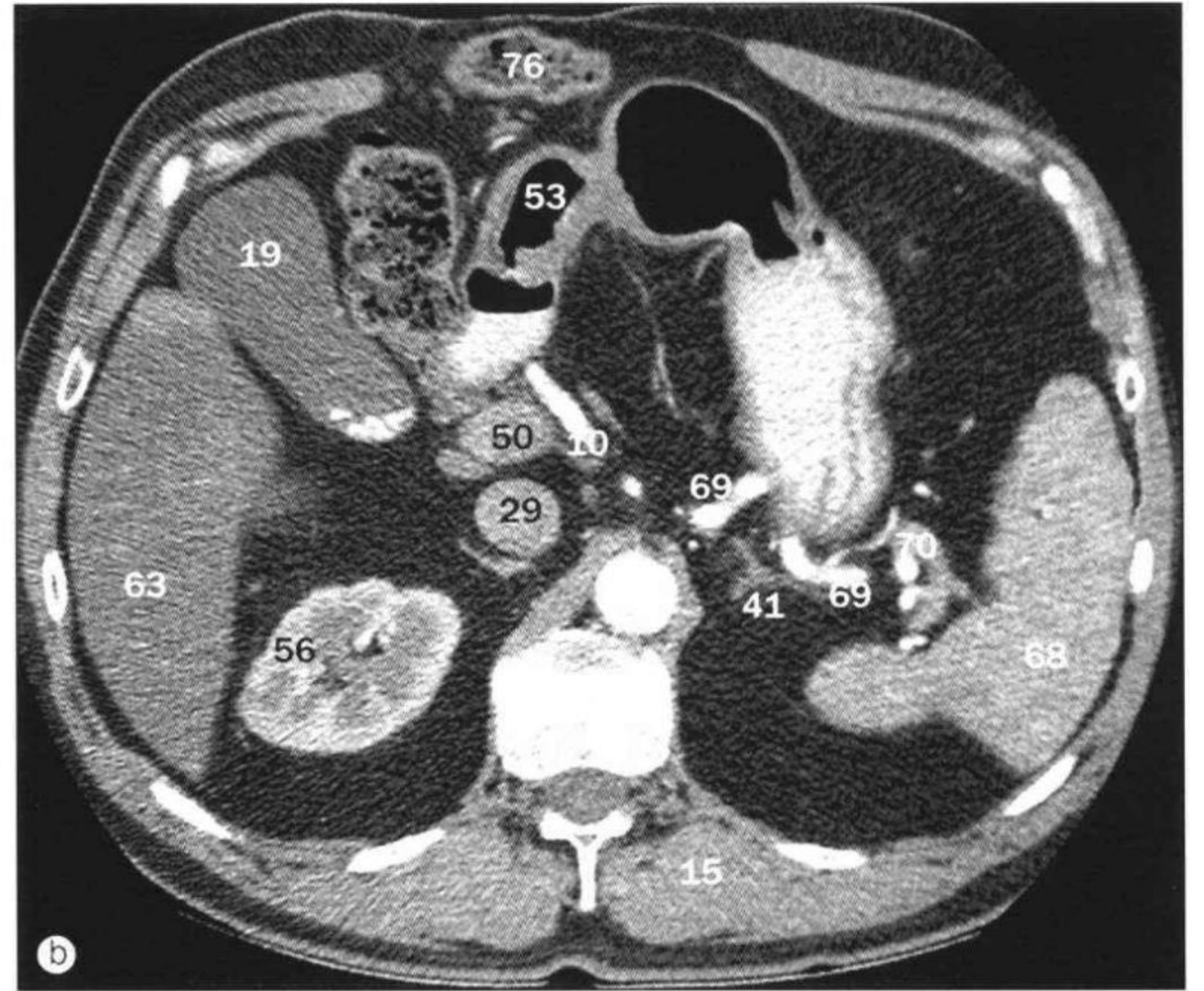
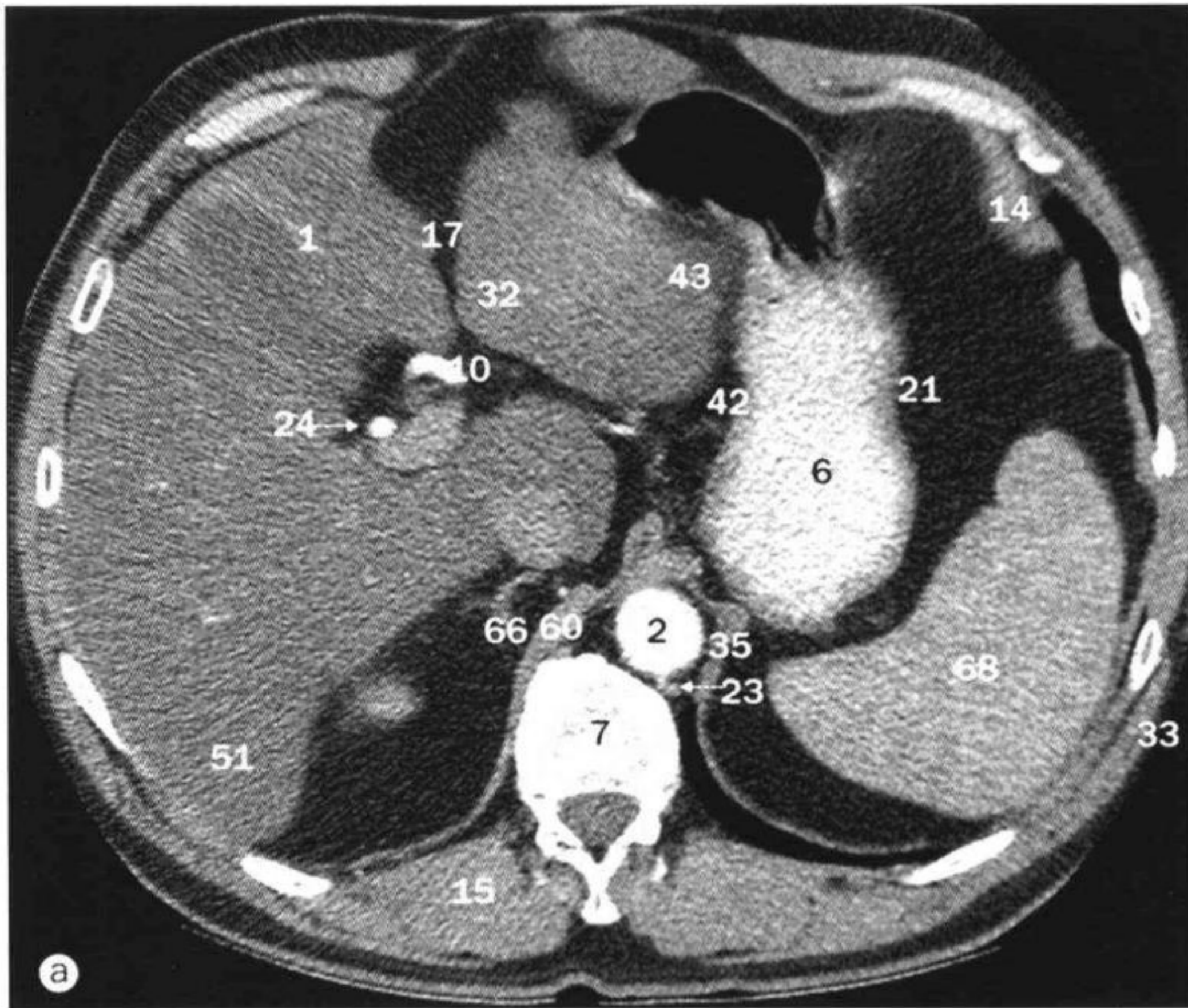
b. 磁共振胰胆管造影 (MRCP)。

- | | | |
|----------------------------------|--|----------------------------|
| 1 胆总管 common bile duct | 5 胆囊 gall bladder | 8 胆囊颈 neck of gall bladder |
| 2 肝总管 common hepatic duct | 6 肝胰壶腹
hepatopancreatic (Vater's) ampulla | 9 胰管 pancreatic duct |
| 3 胆囊管 cystic duct | 7 肝左管 left hepatic duct | 10 肝右管 right hepatic duct |
| 4 十二指肠内的内镜 endoscope in duodenum | | |



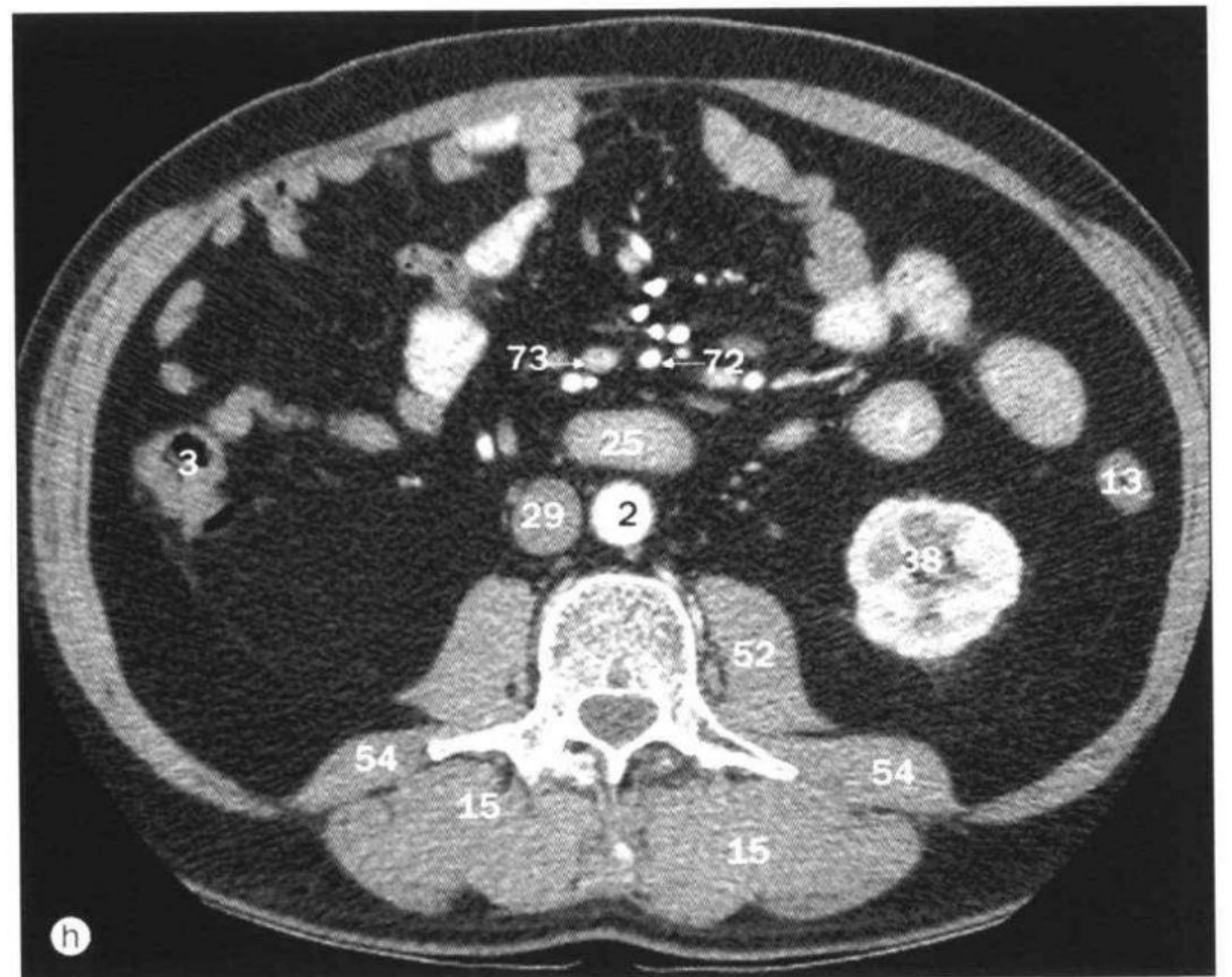
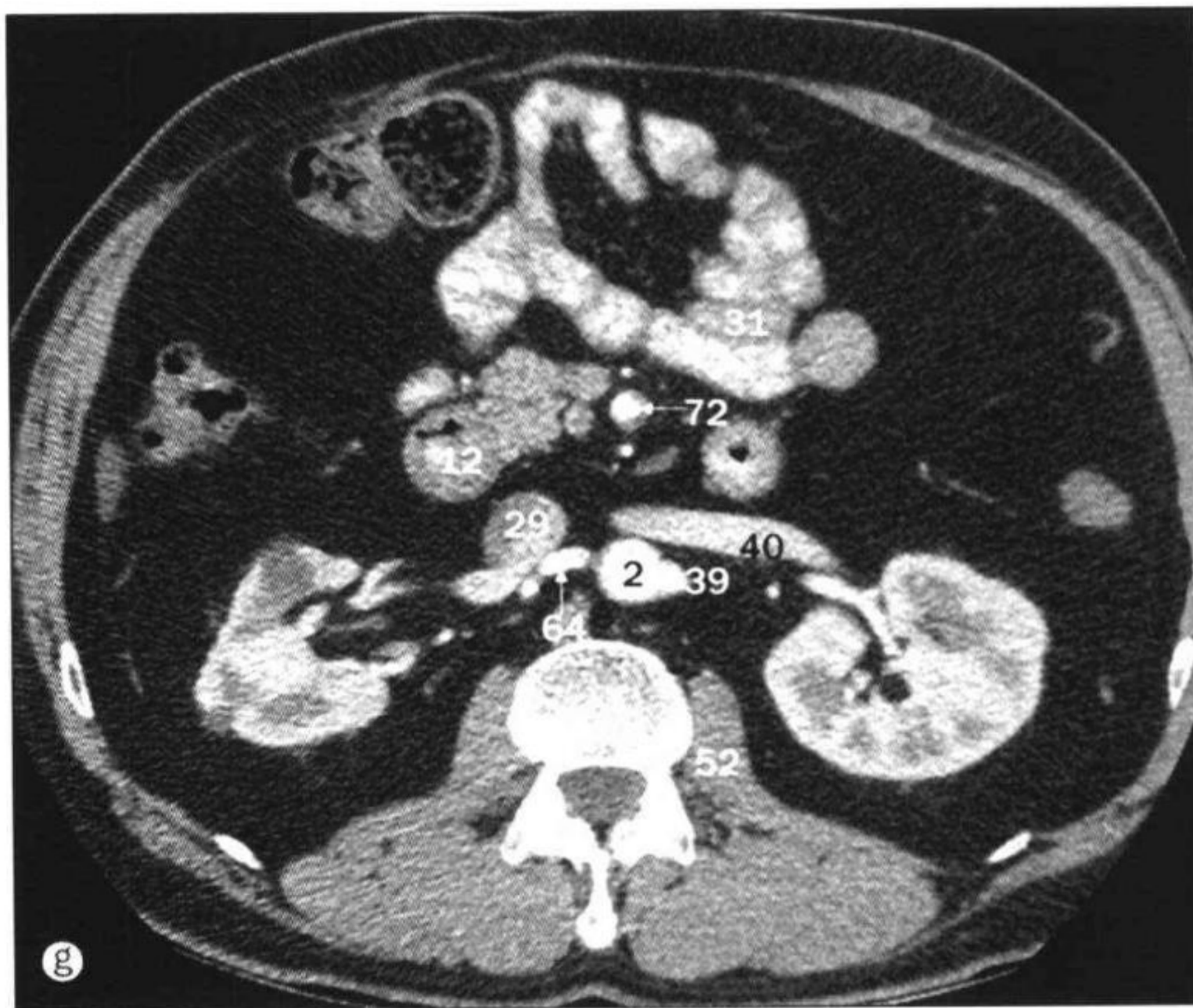
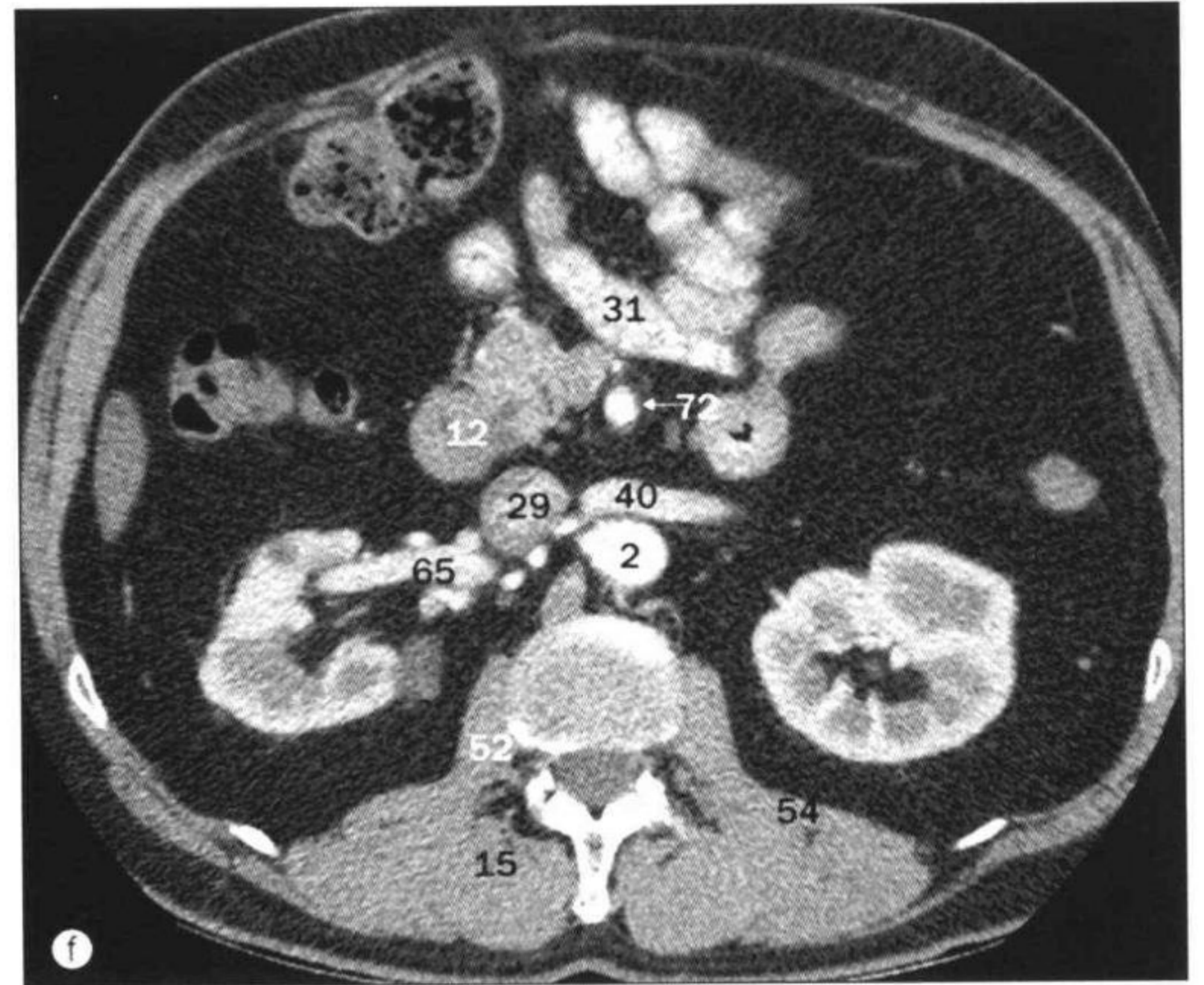
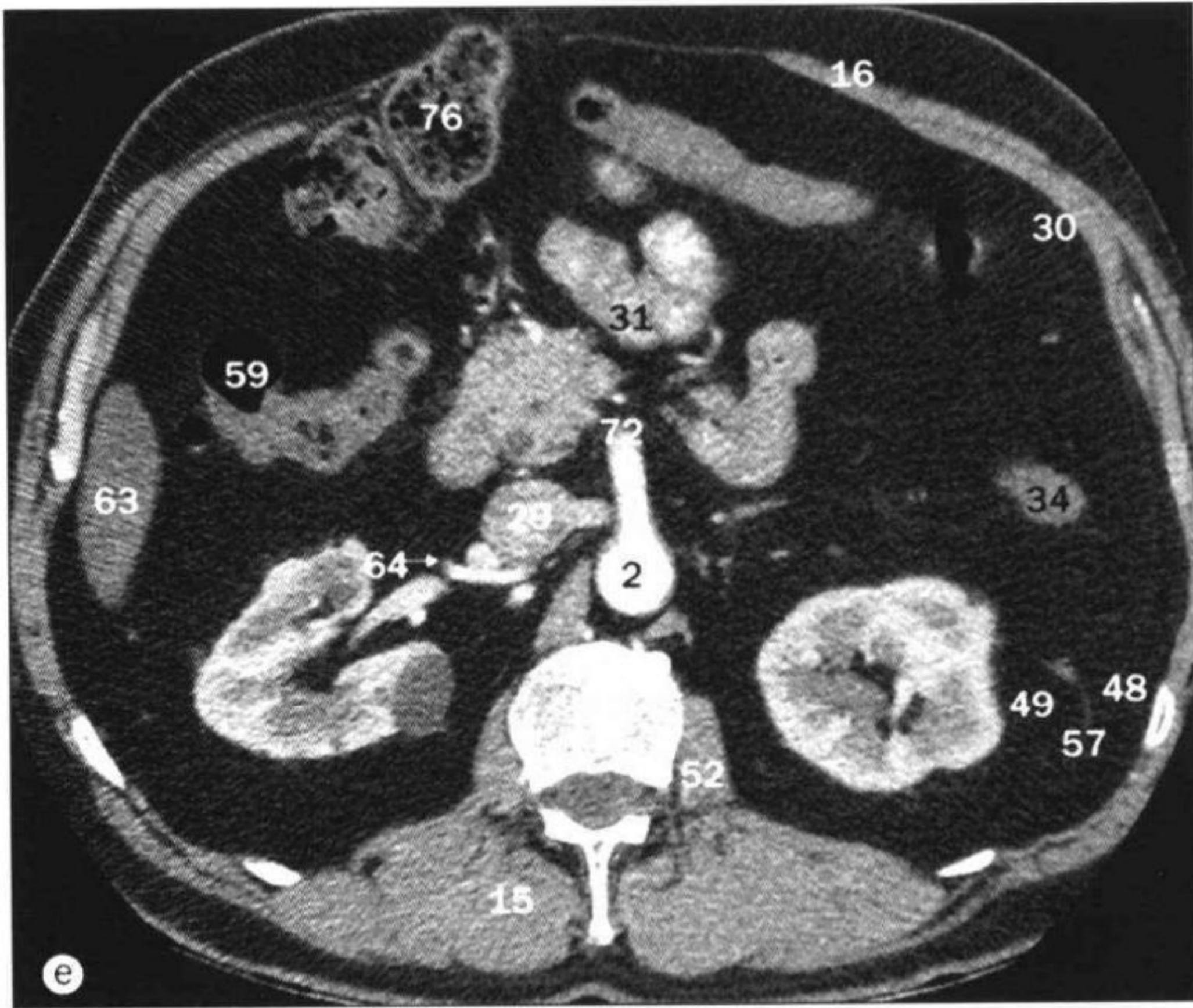
c. 内镜逆行胰胆管造影。

- | |
|---|
| 1 副胰管 accessory pancreatic duct (Santorini's) |
| 2 胰管壶腹部 ampullary part of pancreatic duct |
| 3 胆总管 common bile duct |
| 4 十二指肠降部的对比剂和气体
contrast and gas in descending (second) part of duodenum |
| 5 小叶内导管 intralobular ducts |
| 6 主胰管 main pancreatic duct |

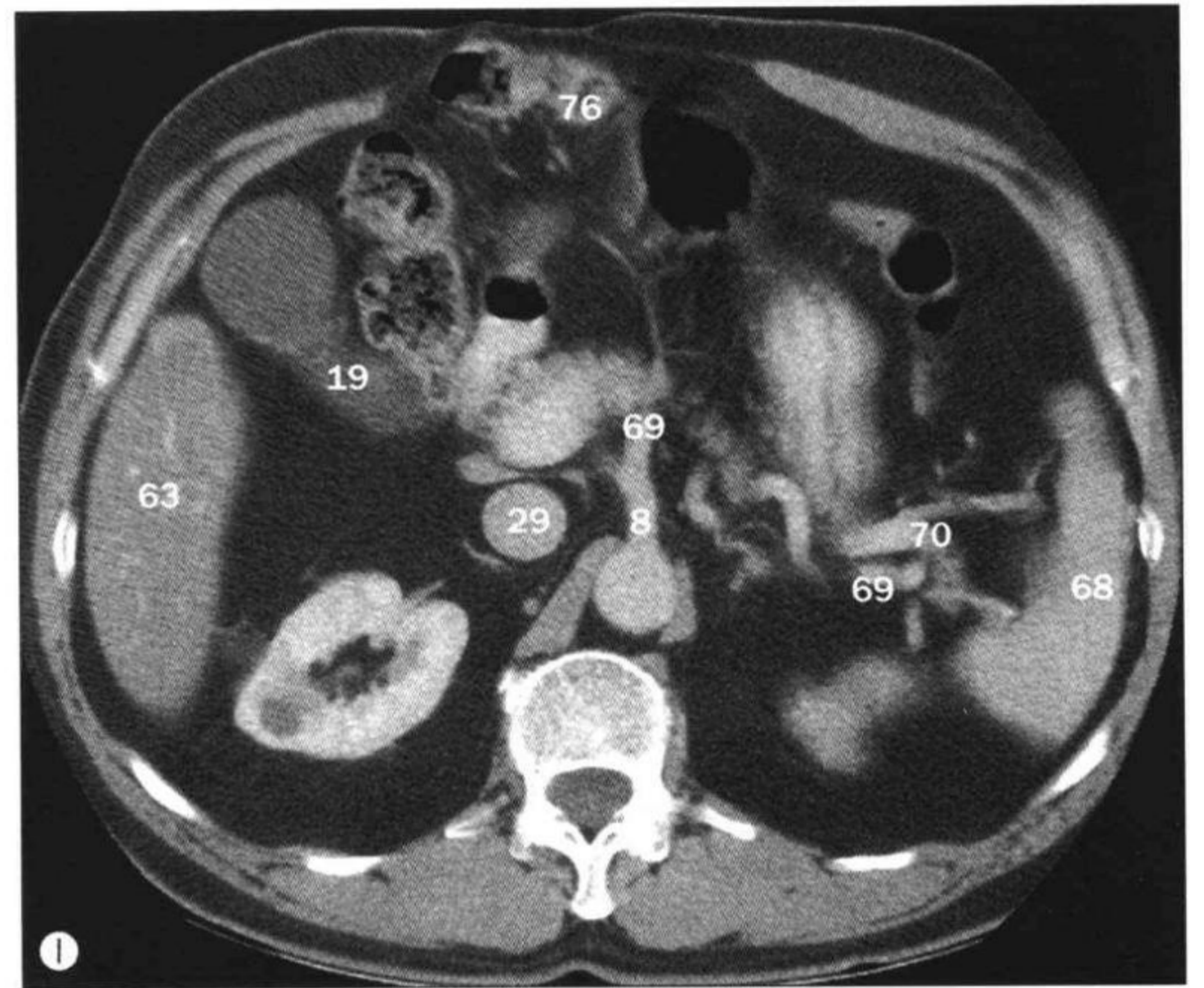
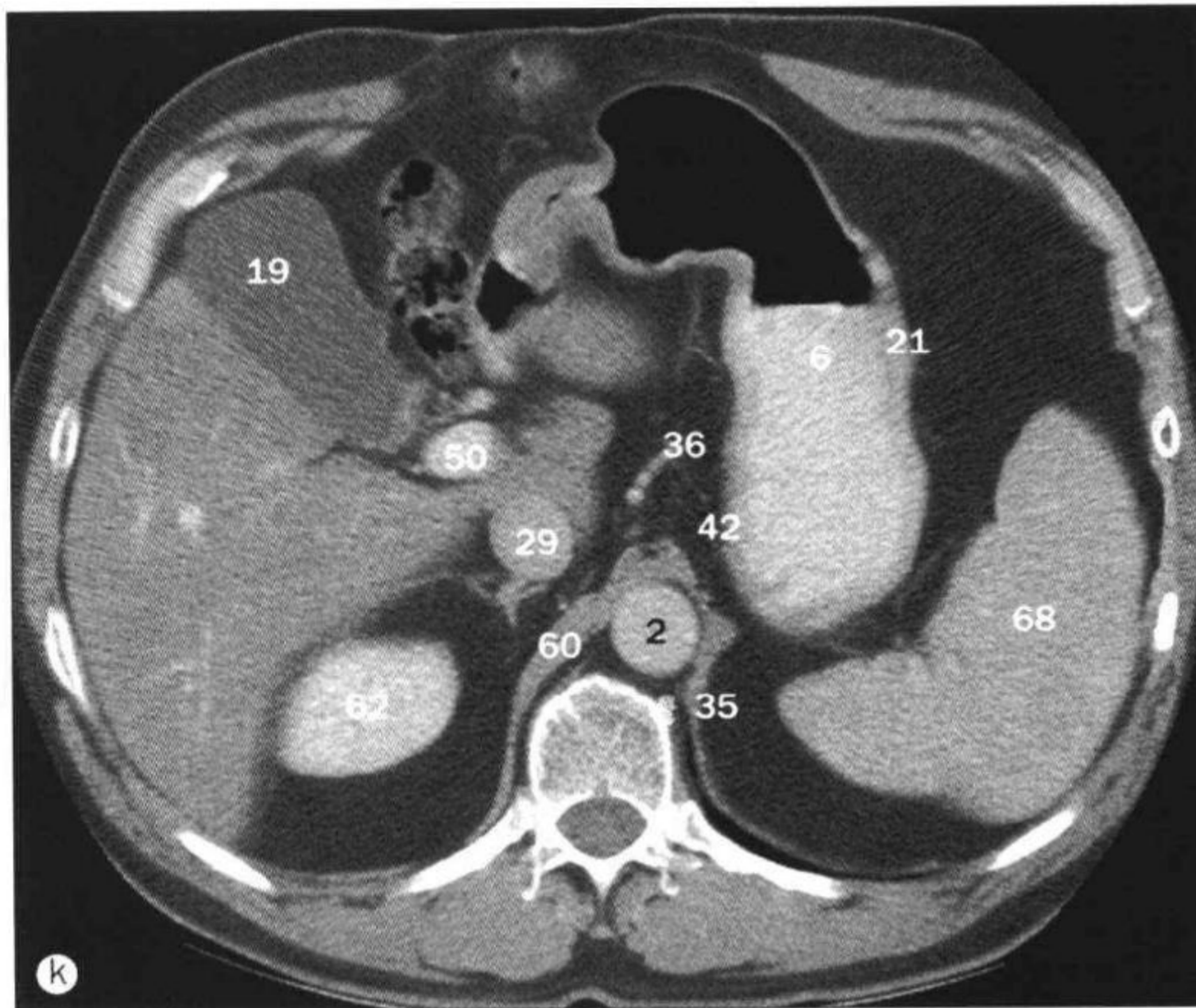
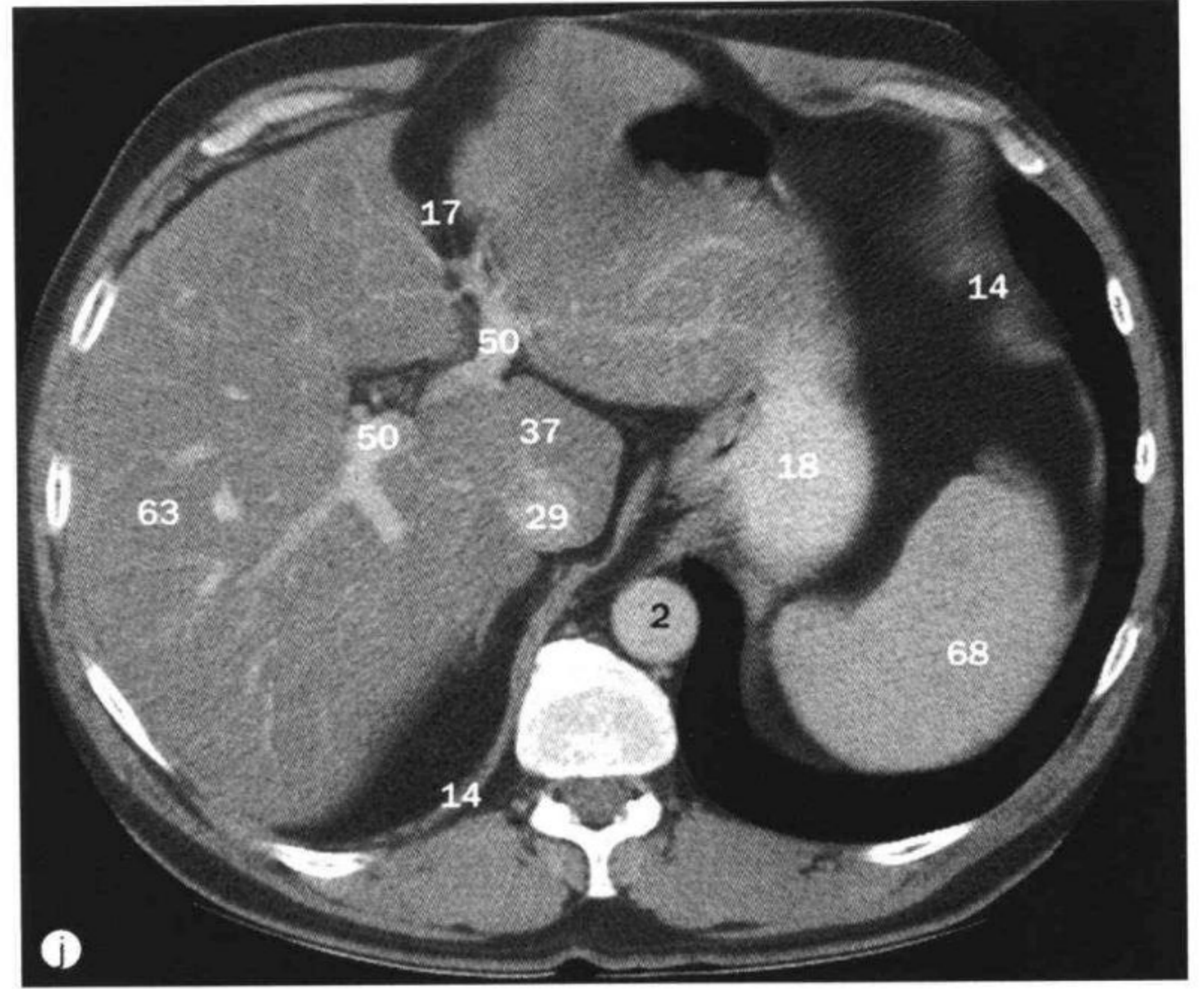
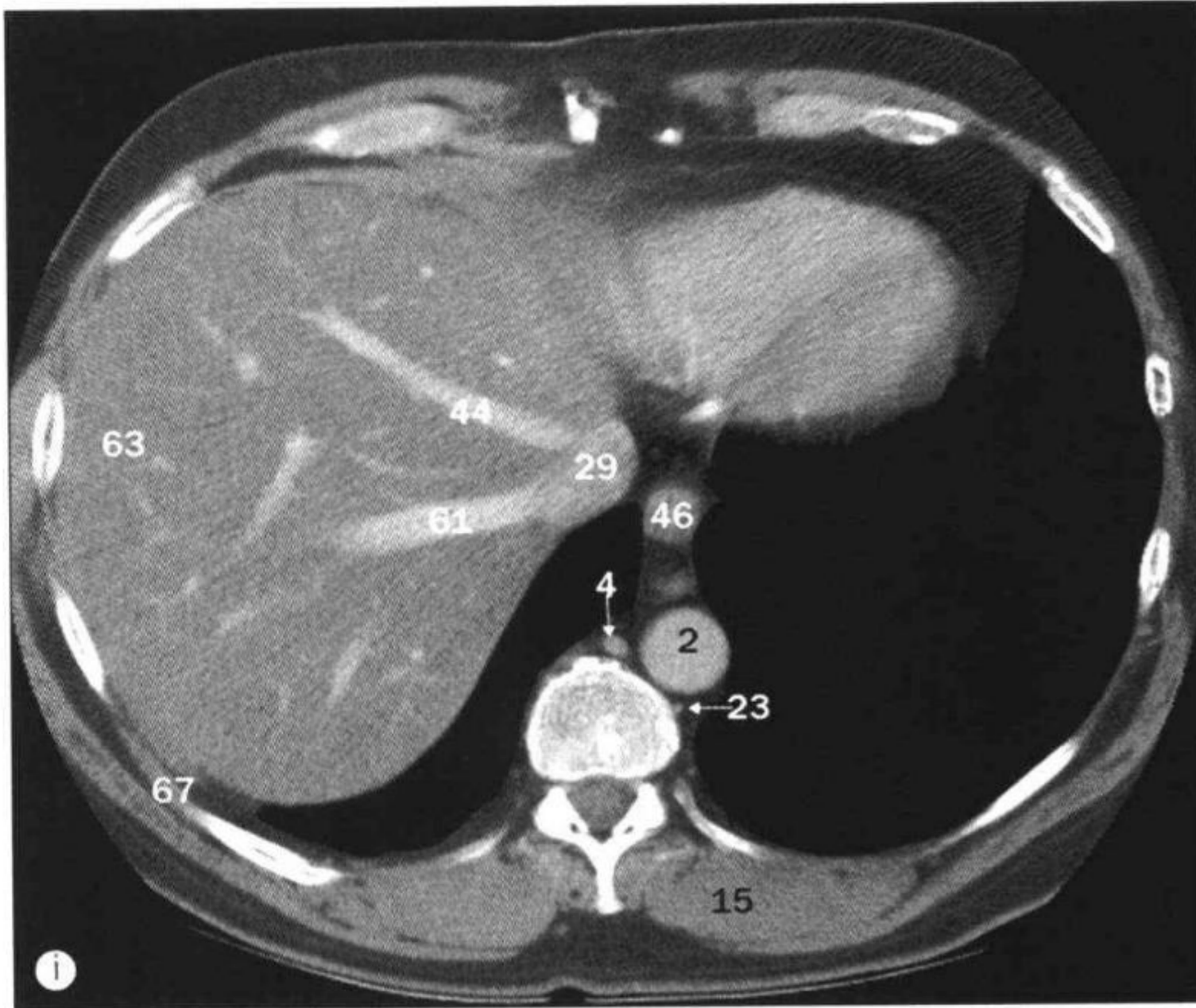


a~h. 上腹，轴位 CT。对比剂注入后显示动脉相的动脉系统。

- | | | |
|---|--|---|
| 1 肝右叶前段 anterior segment of right lobe of liver | 15 竖脊肌 erector spinae muscle | 28 肠系膜下动脉 inferior mesenteric artery |
| 2 主动脉 aorta | 16 腹外斜肌 external oblique muscle | 29 下腔静脉 inferior vena cava |
| 3 升结肠 ascending colon | 17 静脉韧带裂 fissure for ligamentum venosum | 30 腹内斜肌 internal oblique muscle |
| 4 奇静脉 azygos vein | 18 胃底 fundus of stomach | 31 空肠 jejunum |
| 5 胰体 body of pancreas | 19 胆囊 gall bladder | 32 肝左叶外侧段 lateral segment of left lobe of liver |
| 6 胃体 body of stomach | 20 臀中肌 gluteus medius muscle | 33 背阔肌 latissimus dorsi muscle |
| 7 椎体 body of vertebra | 21 胃大弯 greater curvature of stomach | 34 结肠左曲 left colic (splenic) flexure |
| 8 腹腔干 coeliac trunk | 22 胰头 head of pancreas | 35 左膈脚 left crus of diaphragm |
| 9 胆总管 common bile duct | 23 半奇静脉 hemi-azygos vein | 36 胃左动脉 left gastric artery |
| 10 肝总动脉 common hepatic artery | 24 肝动脉 hepatic artery | 37 肝左静脉 left hepatic vein |
| 11 髂总动脉 common iliac artery | 25 十二指肠水平部 horizontal (third) part of duodenum | 38 左肾 left kidney |
| 12 十二指肠降部 descending (second) part of duodenum | 26 回肠 ileum | 39 左肾动脉 left renal artery |
| 13 降结肠 descending colon | 27 髌骨 ilium | |
| 14 膈 diaphragm | | |

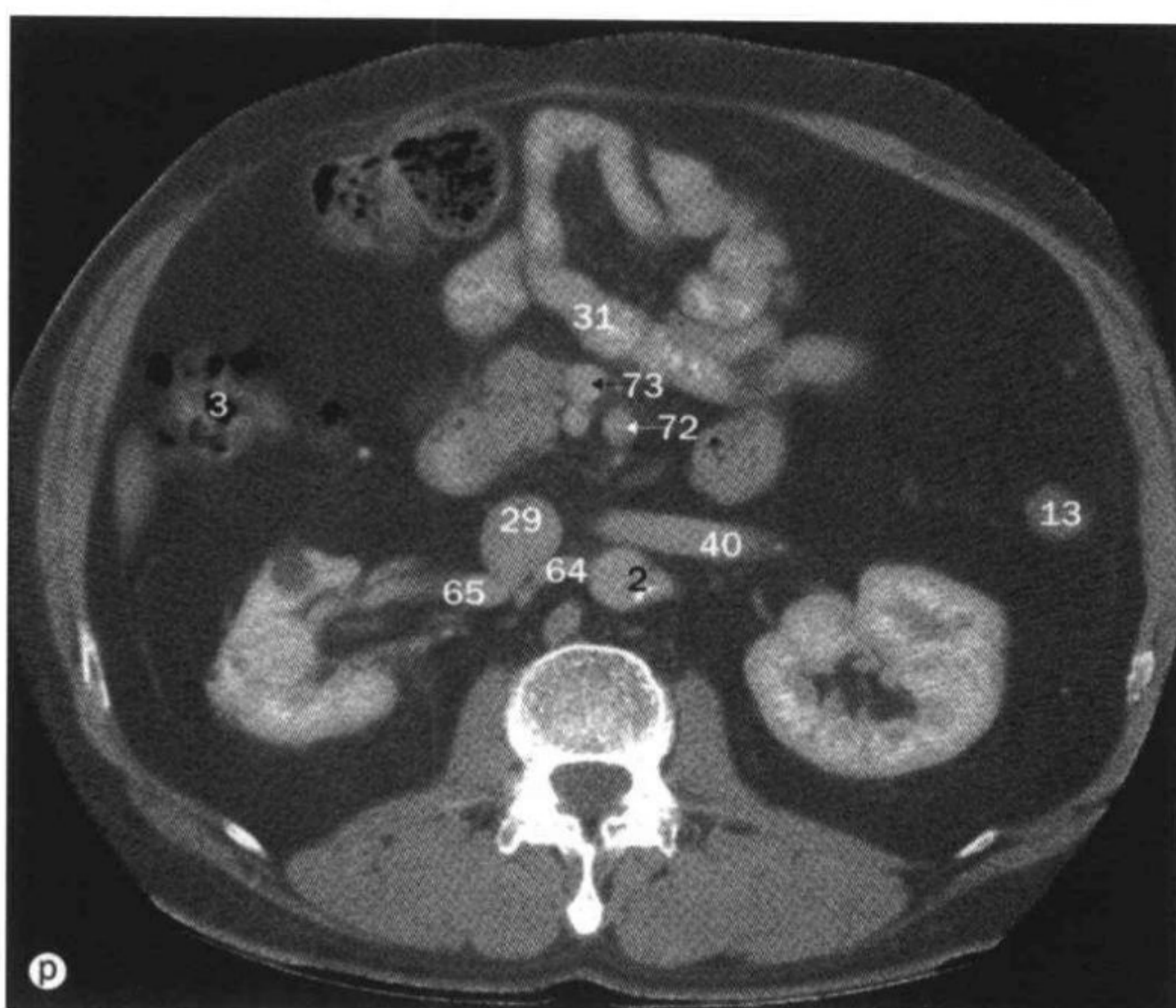
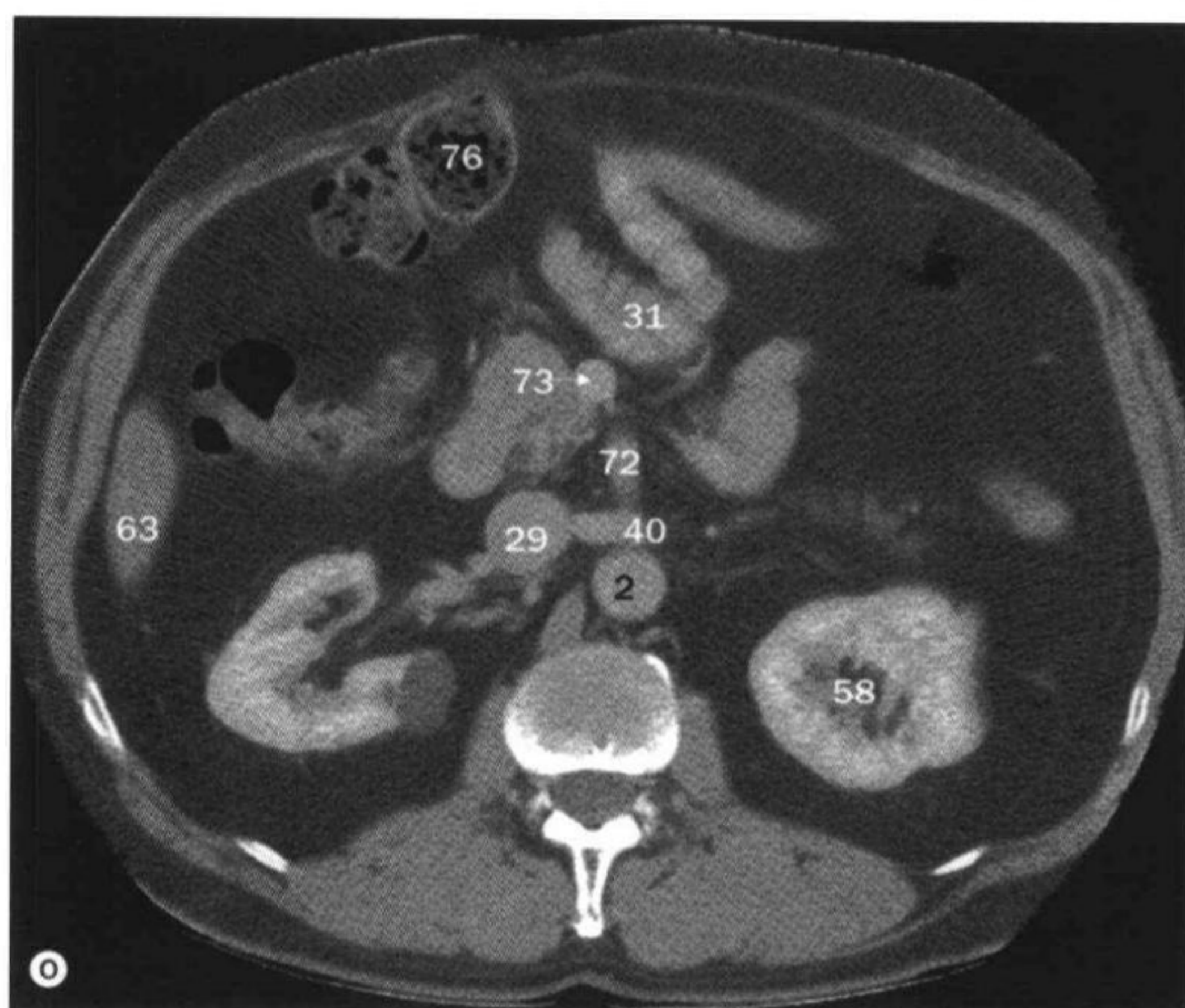
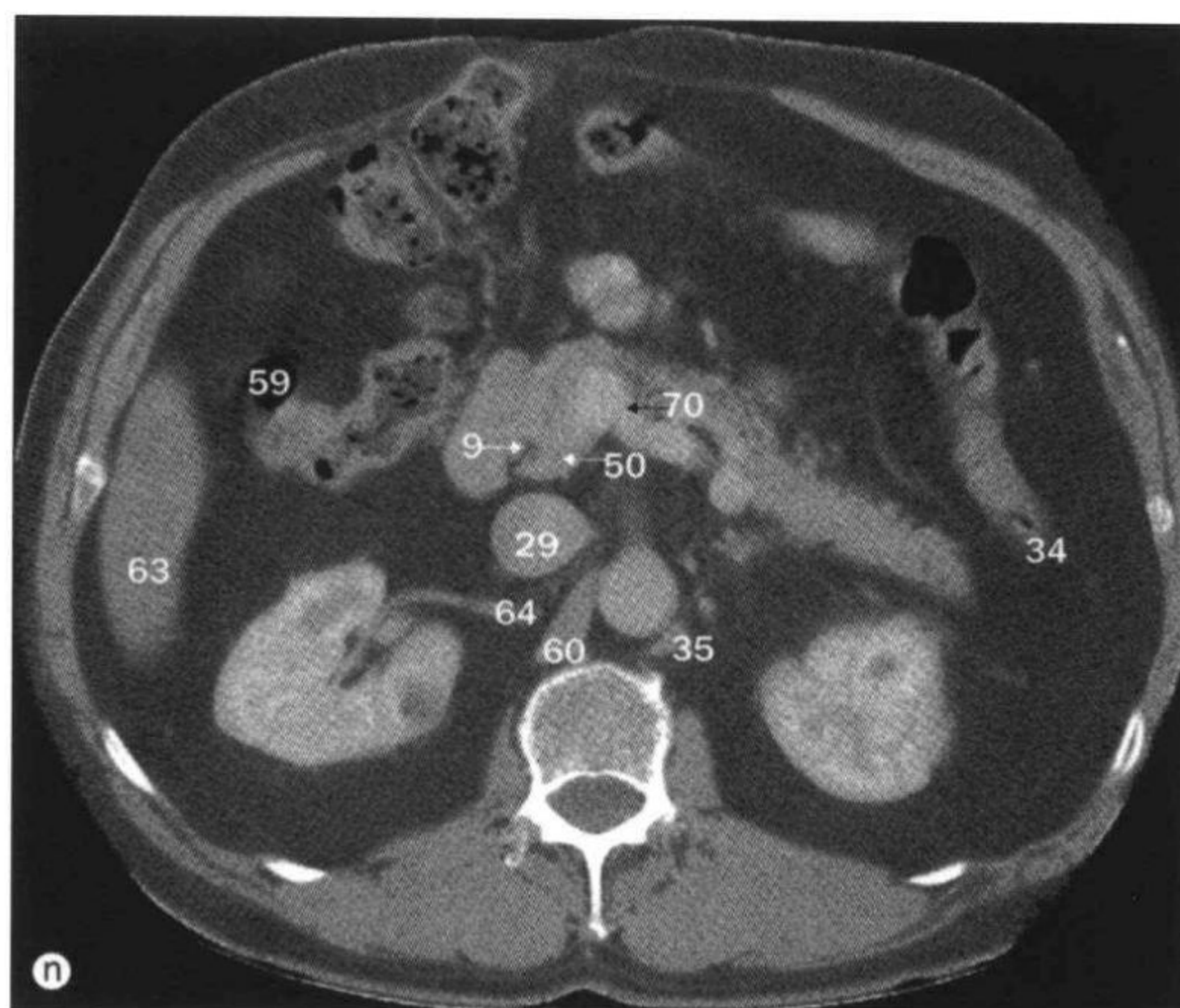
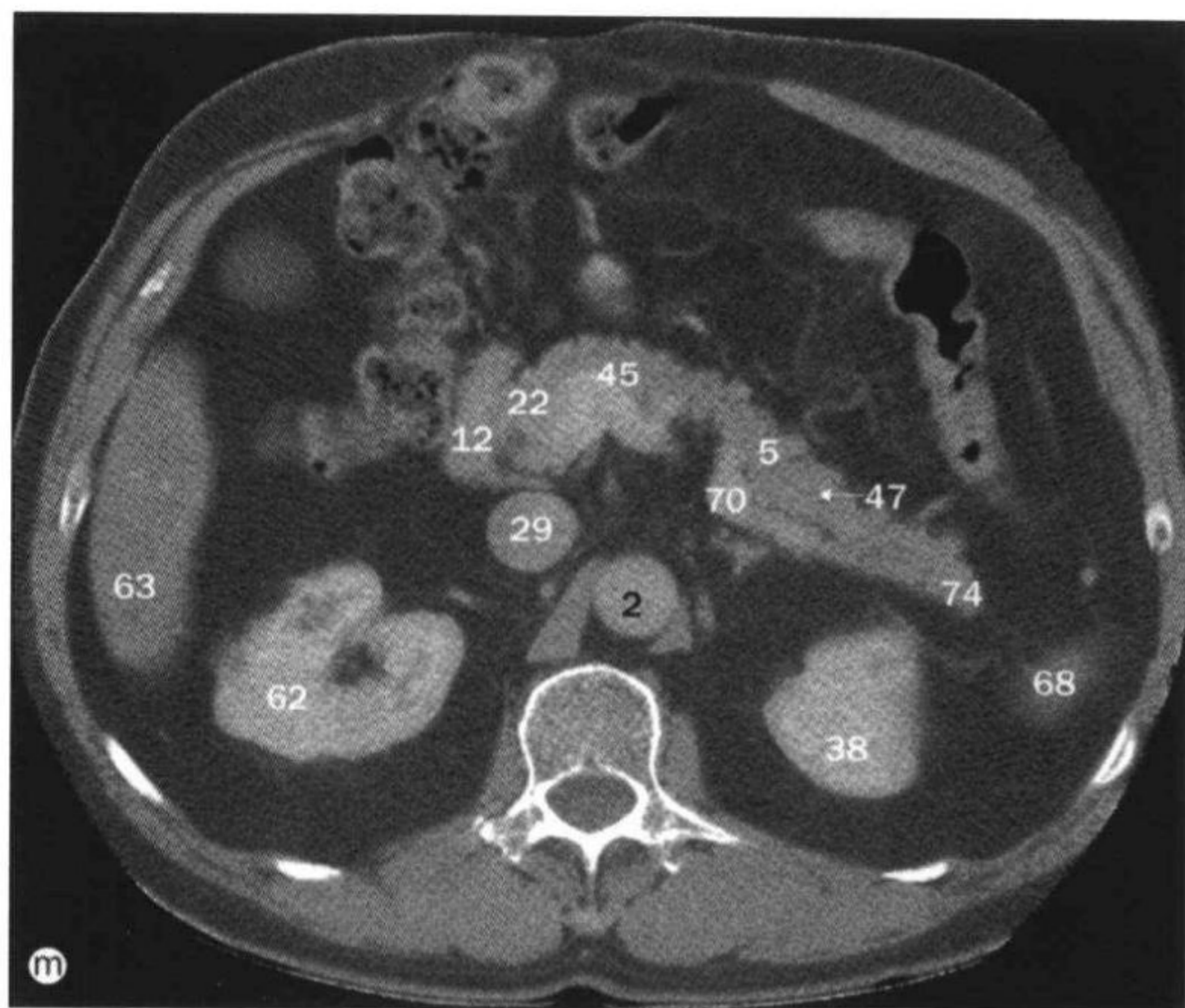


- | | | |
|---|---------------------------------------|---|
| 40 左肾静脉 left renal vein | 53 胃幽门部 pyloric part of stomach | 66 右肾上腺 right suprarenal gland |
| 41 左肾上腺 left suprarenal gland | 54 腰方肌 quadratus lumborum muscle | 67 前锯肌 serratus anterior muscle |
| 42 胃小弯 lesser curvature of stomach | 55 腹直肌 rectus abdominis muscle | 68 脾 spleen |
| 43 肝左叶内侧段 medial segment of left lobe of liver | 56 肾皮质 renal cortex | 69 脾动脉 splenic artery |
| 44 肝中静脉 middle hepatic vein | 57 肾筋膜 renal fascia | 70 脾静脉 splenic vein |
| 45 胰颈 neck of pancreas | 58 肾盂 renal pelvis | 71 十二指肠上部 superior (first) part of duodenum |
| 46 食管 oesophagus | 59 结肠右曲 right colic (hepatic) flexure | 72 肠系膜上动脉 superior mesenteric artery |
| 47 胰管 pancreatic duct | 60 右膈脚 right crus of diaphragm | 73 肠系膜上静脉 superior mesenteric vein |
| 48 肾旁脂肪 pararenal fat | 61 肝右静脉 right hepatic vein | 74 胰尾 tail of pancreas |
| 49 肾周脂肪 perirenal fat | 62 右肾 right kidney | 75 硬脊膜囊 thecal sac |
| 50 门静脉 portal vein | 63 肝右叶 right lobe of liver | 76 横结肠 transverse colon |
| 51 肝右叶后段 posterior segment of right lobe of liver | 64 右肾动脉 right renal artery | |
| 52 腰大肌 psoas major muscle | 65 右肾静脉 right renal vein | |



i-t. 腹部，轴位 CT，为对比剂注射后的静脉相。动脉相见前两页。

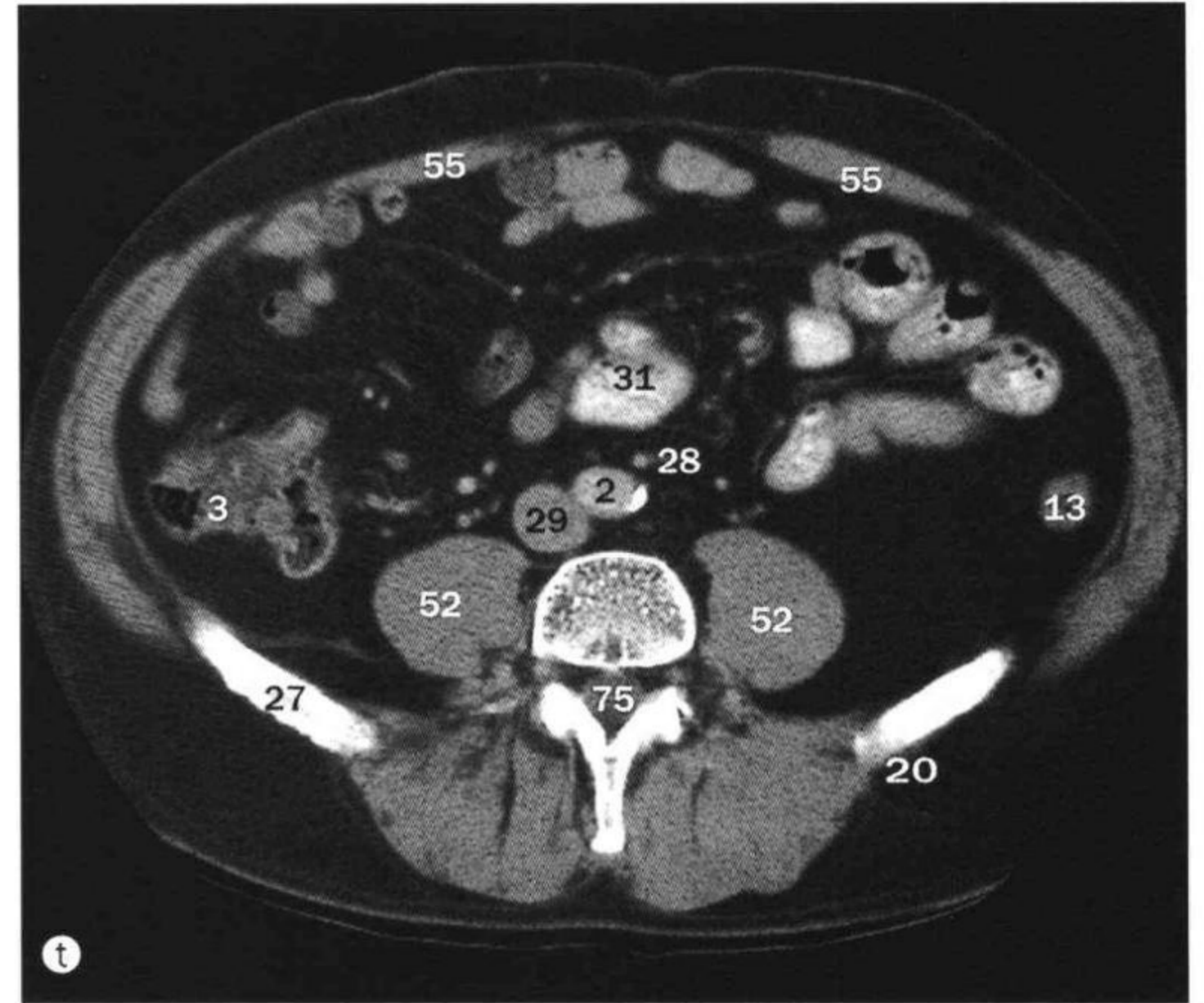
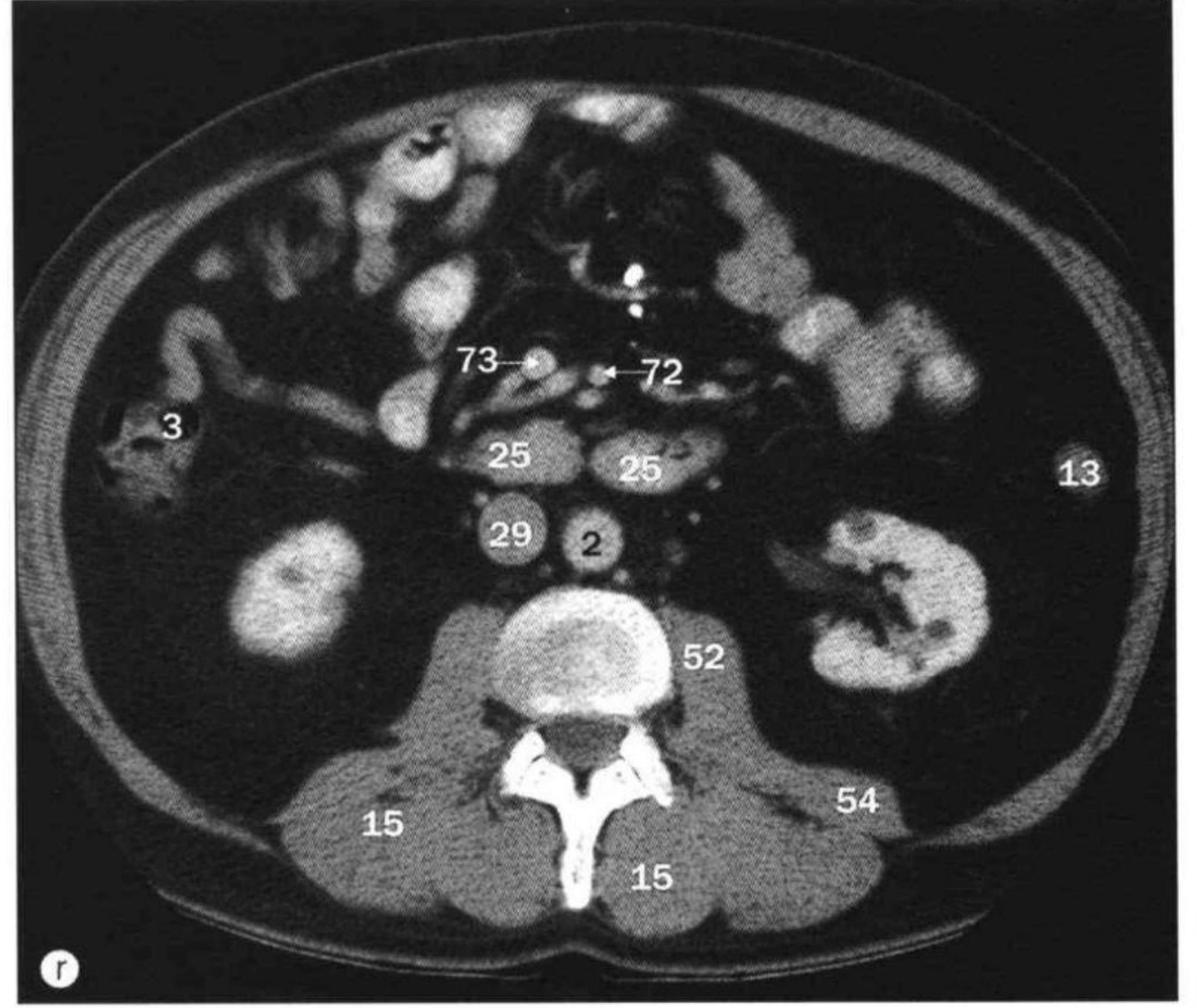
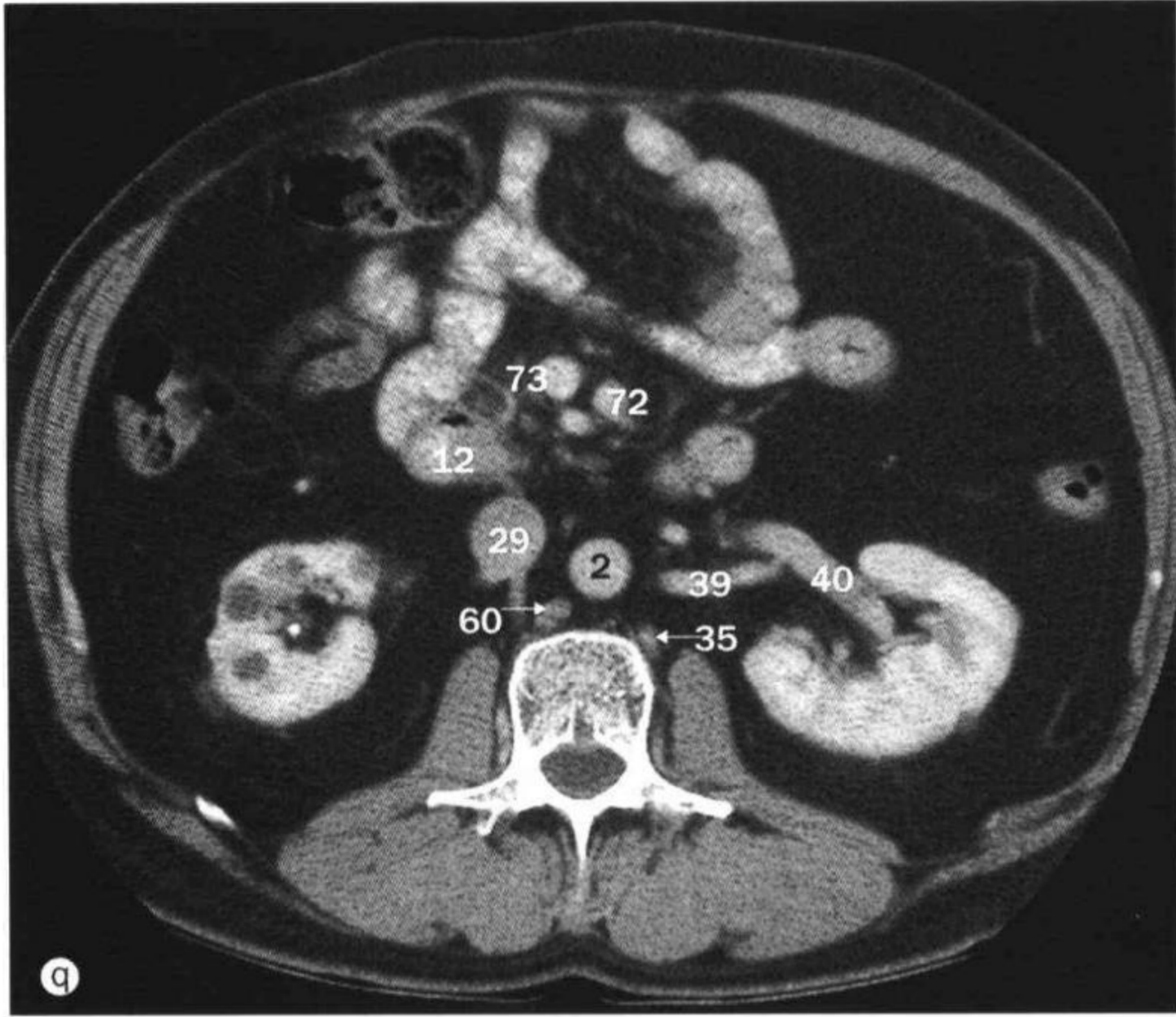
- | | | |
|---|--|---|
| 1 肝右叶前段 anterior segment of right lobe of liver | 16 腹外斜肌 external oblique muscle | 29 下腔静脉 inferior vena cava |
| 2 主动脉 aorta | 17 静脉韧带裂 fissure for ligamentum venosum | 30 腹内斜肌 internal oblique muscle |
| 3 升结肠 ascending colon | 18 胃底 fundus of stomach | 31 空肠 jejunum |
| 4 奇静脉 azygos vein | 19 胆囊 gall bladder | 32 肝左叶外侧段 lateral segment of left lobe of liver |
| 5 胰体 body of pancreas | 20 臀中肌 gluteus medius muscle | 33 背阔肌 latissimus dorsi muscle |
| 6 胃体 body of stomach | 21 胃大弯 greater curvature of stomach | 34 结肠左曲 left colic (splenic) flexure |
| 7 椎体 body of vertebra | 22 胰头 head of pancreas | 35 左膈脚 left crus of diaphragm |
| 8 腹腔干 coeliac trunk | 23 半奇静脉 hemi-azygos vein | 36 胃左动脉 left gastric artery |
| 9 胆总管 common bile duct | 24 肝动脉 hepatic artery | 37 肝左静脉 left hepatic vein |
| 10 肝总动脉 common hepatic artery | 25 十二指肠水平部 horizontal (third) part of duodenum | 38 左肾 left kidney |
| 11 髂总动脉 common iliac artery | 26 回肠 ileum | 39 左肾动脉 left renal artery |
| 12 十二指肠降部 descending (second) part of duodenum | 27 髌骨 ilium | 40 左肾静脉 left renal vein |
| 13 降结肠 descending colon | 28 肠系膜下动脉 inferior mesenteric artery | 41 左肾上腺 left suprarenal gland |
| 14 膈 diaphragm | | 42 胃小弯 lesser curvature of stomach |
| 15 竖脊肌 erector spinae muscle | | |



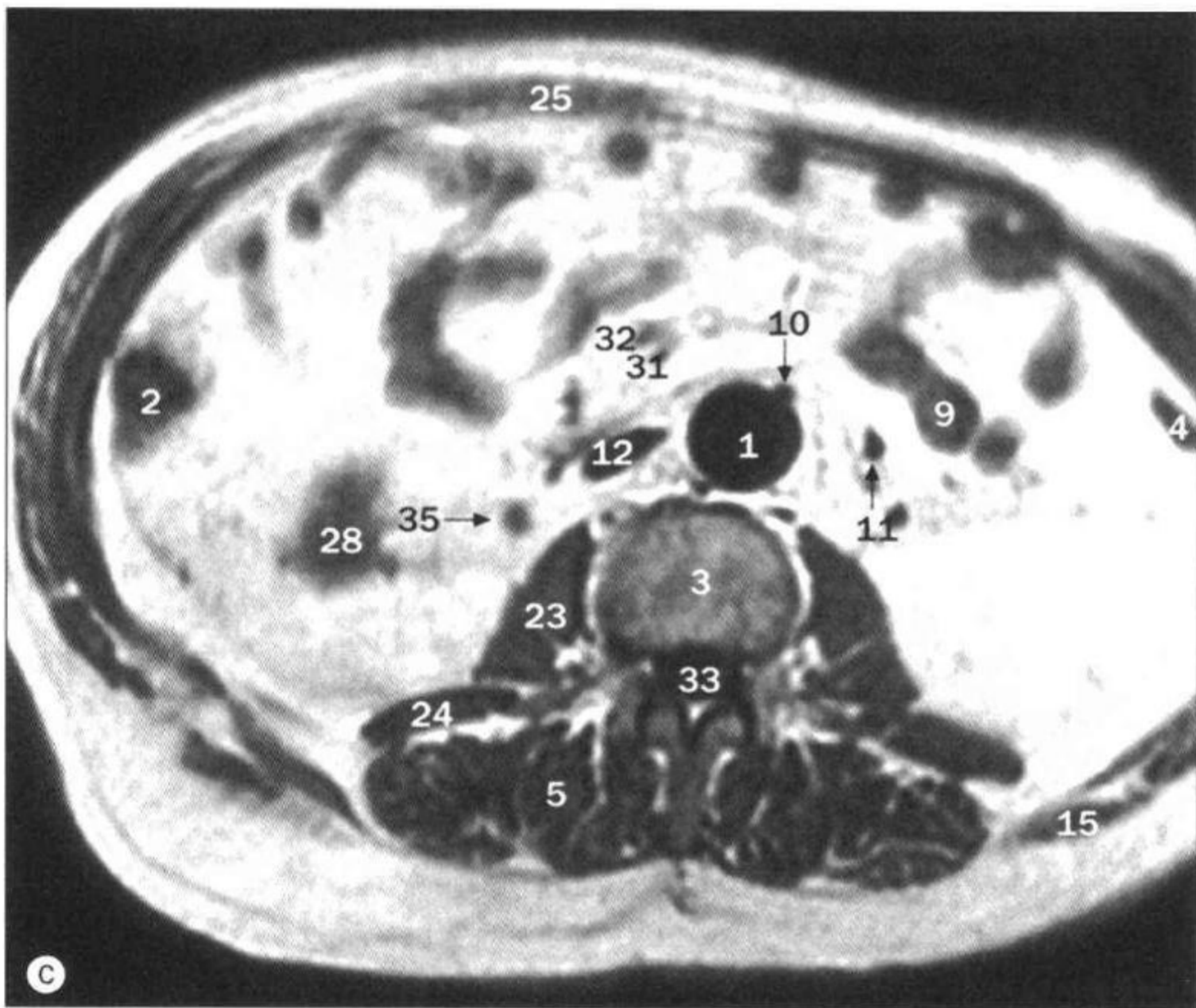
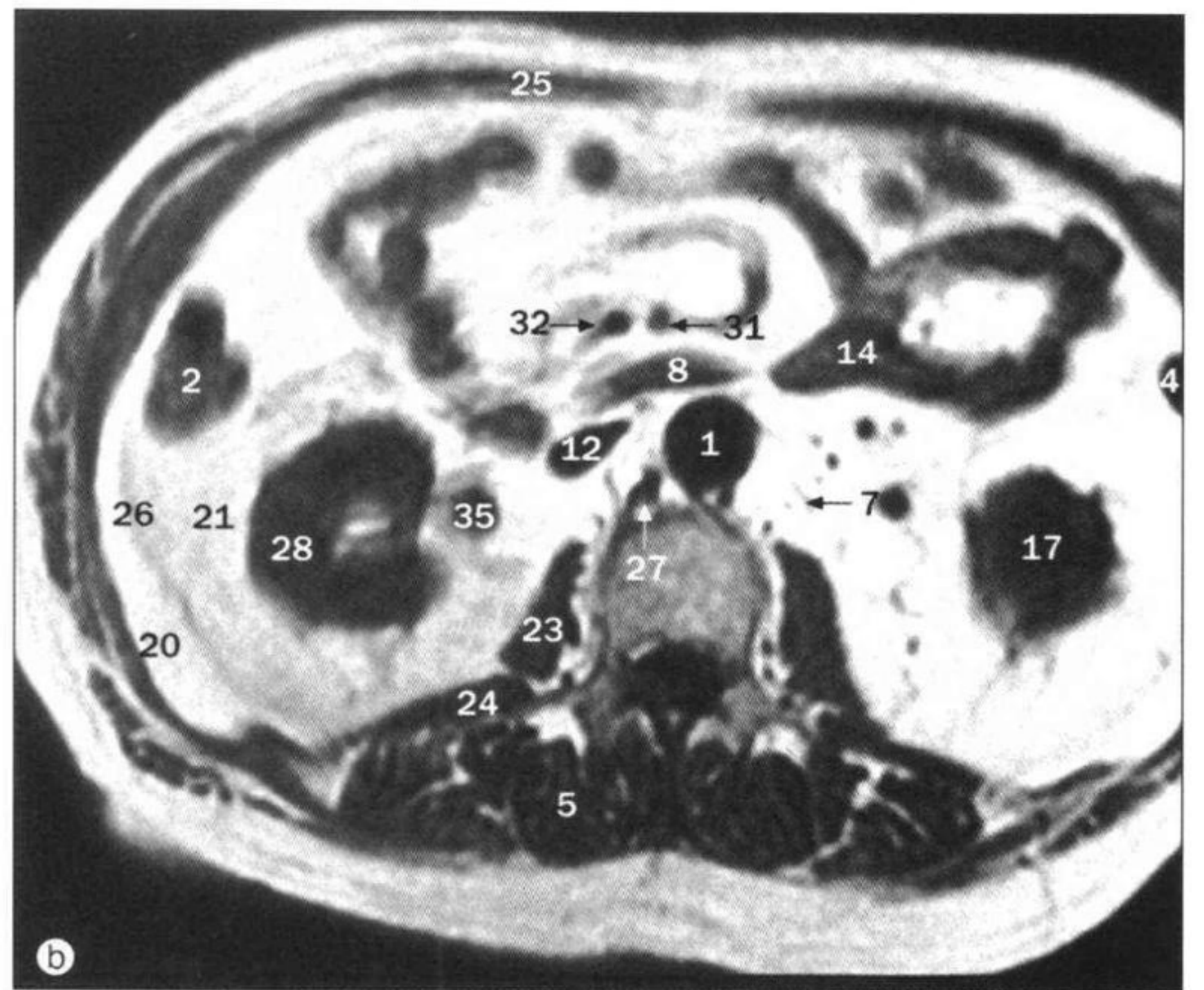
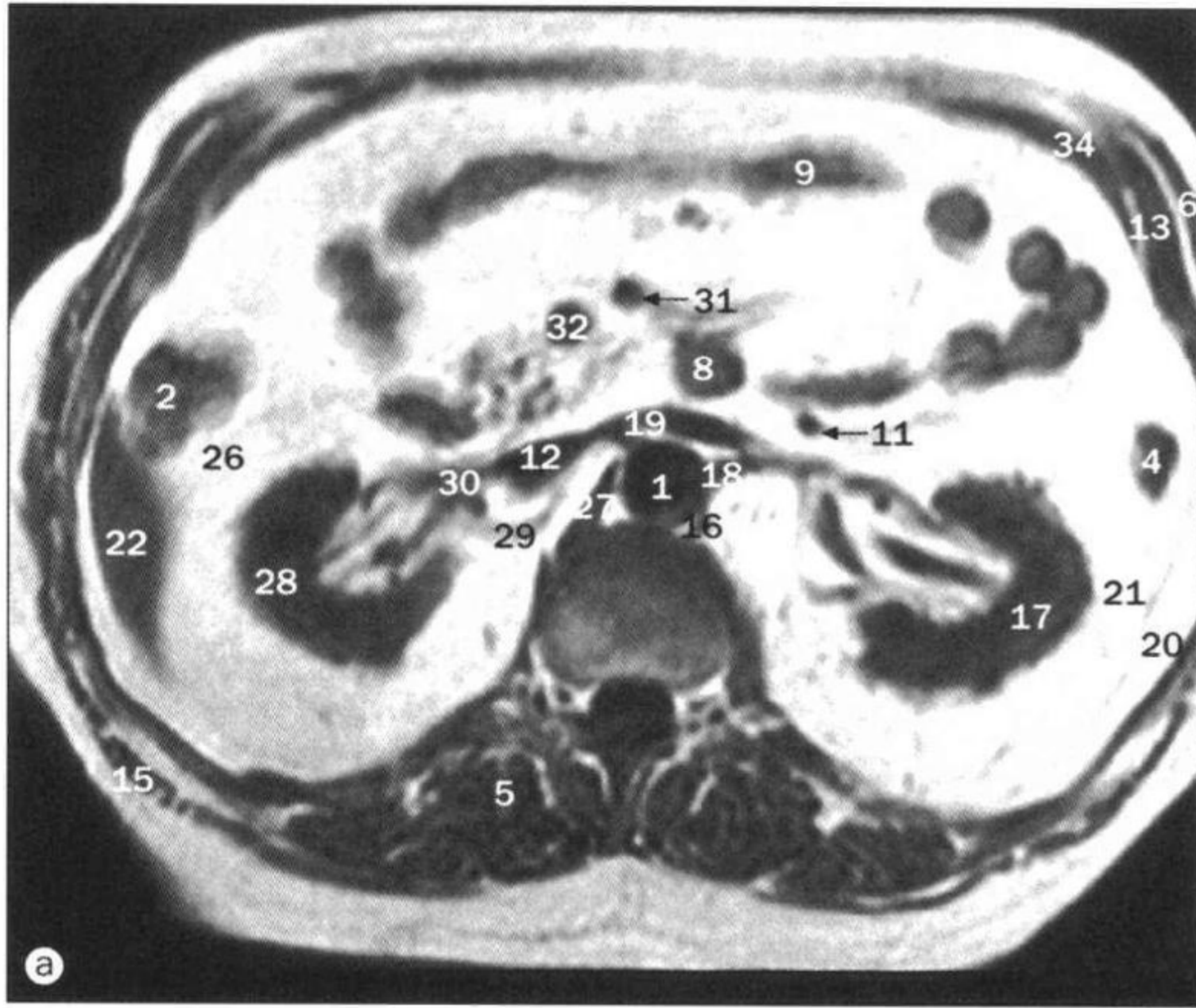
43 肝左叶内侧段 medial segment of left lobe of liver
 44 肝中静脉 middle hepatic vein
 45 胰颈 neck of pancreas
 46 食管 oesophagus
 47 胰管 pancreatic duct
 48 肾旁脂肪 pararenal fat
 49 肾周脂肪 perirenal fat
 50 门静脉 portal vein
 51 肝右叶后段 posterior segment of right lobe of liver
 52 腰大肌 psoas major muscle
 53 胃幽门部 pyloric part of stomach

54 腰方肌 quadratus lumborum muscle
 55 腹直肌 rectus abdominis muscle
 56 肾皮质 renal cortex
 57 肾筋膜 renal fascia
 58 肾盂 renal pelvis
 59 结肠右曲 right colic (hepatic) flexure
 60 右膈脚 right crus of diaphragm
 61 肝右静脉 right hepatic vein
 62 右肾 right kidney
 63 肝右叶 right lobe of liver
 64 右肾动脉 right renal artery
 65 右肾静脉 right renal vein

66 右肾上腺 right suprarenal gland
 67 前锯肌 serratus anterior muscle
 68 脾 spleen
 69 脾动脉 splenic artery
 70 脾静脉 splenic vein
 71 十二指肠上部 superior (first) part of duodenum
 72 肠系膜上动脉 superior mesenteric artery
 73 肠系膜上静脉 superior mesenteric vein
 74 胰尾 tail of pancreas
 75 硬脊膜囊 thecal sac
 76 横结肠 transverse colon

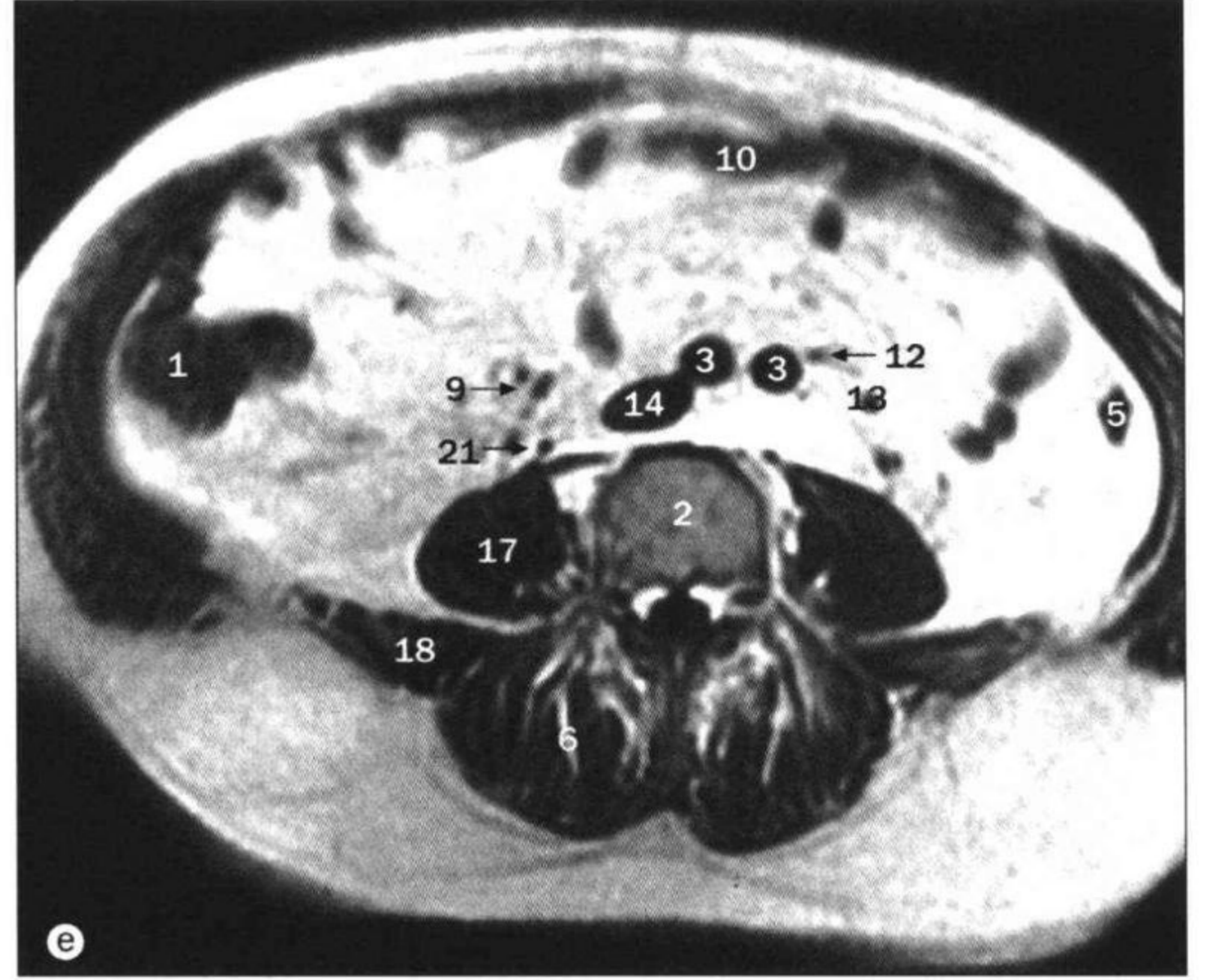
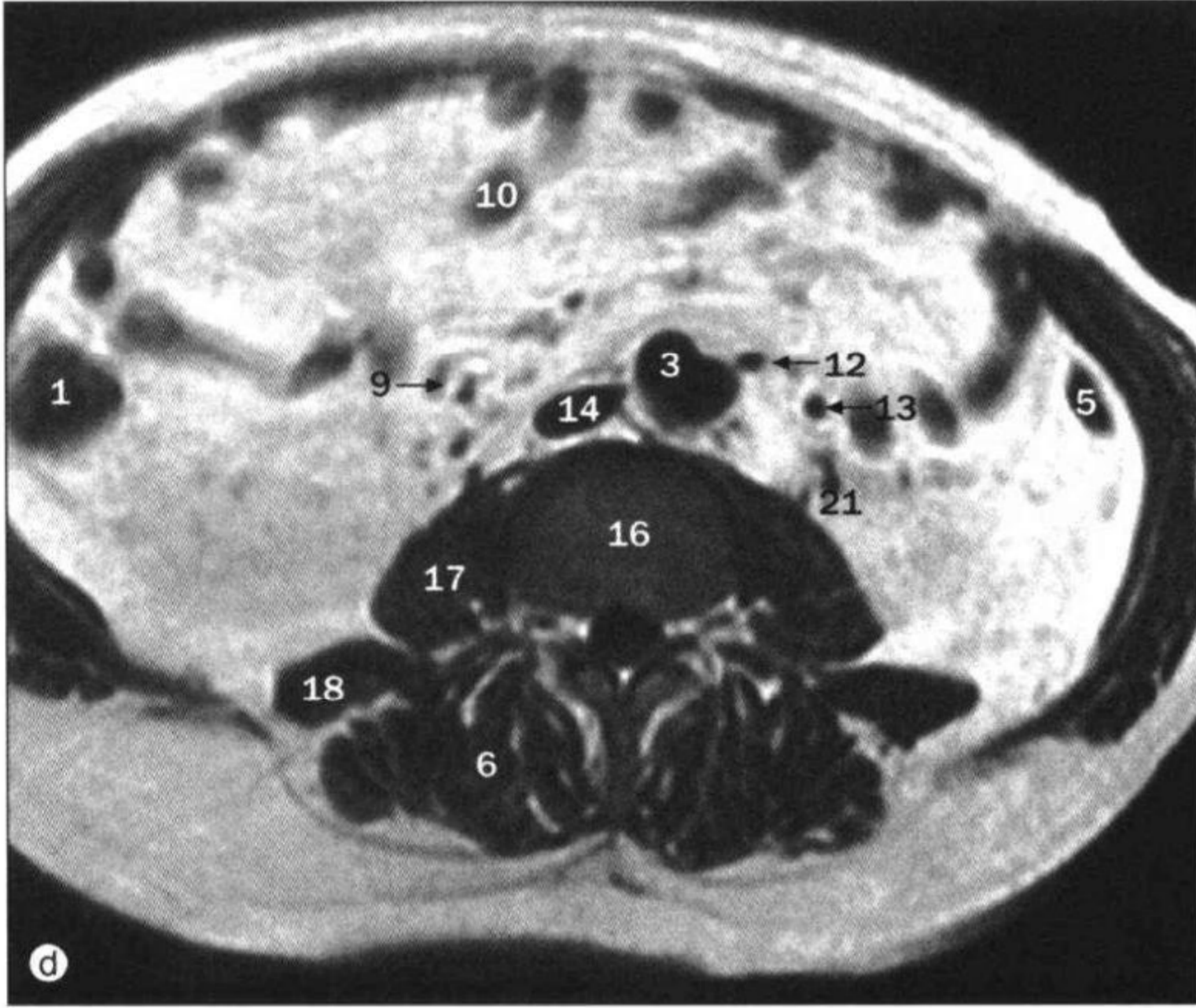


腹部，轴位 CT，为对比剂注射后的静脉相（续）。



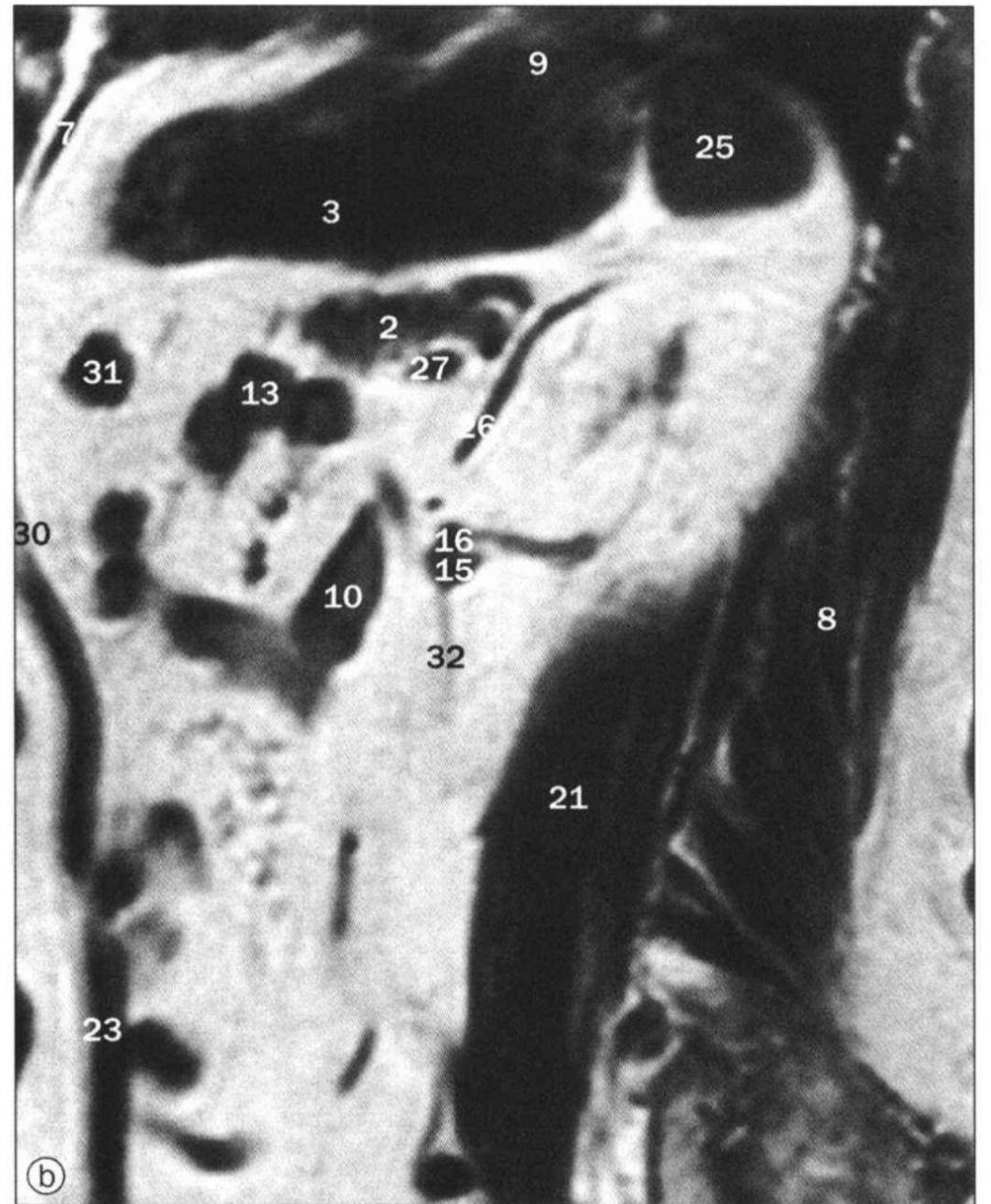
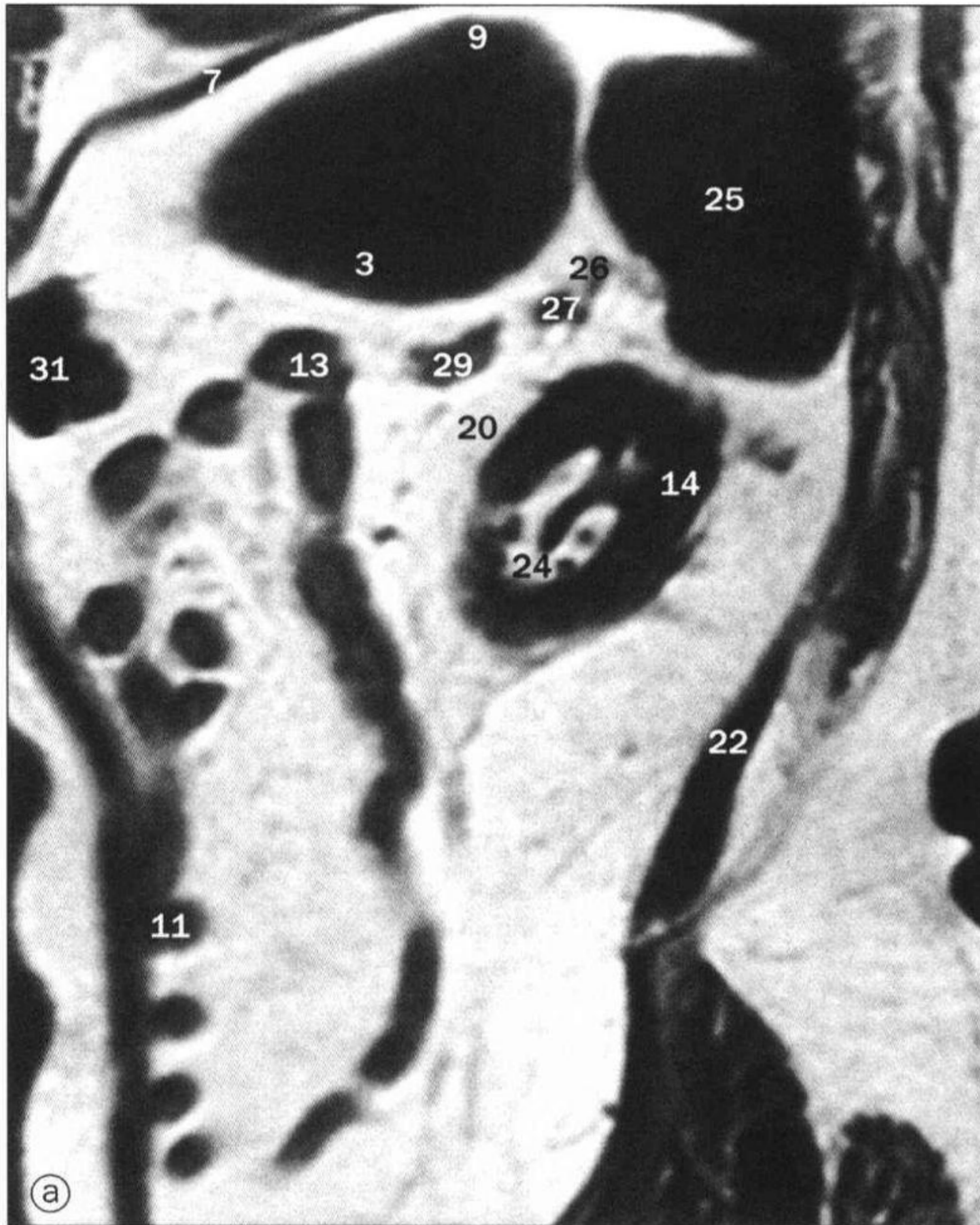
a~c. 腹部, 轴位 MRI。

- | | | |
|---|---|--------------------------------------|
| 1 主动脉 aorta | 12 下腔静脉 inferior vena cava | 25 腹直肌 rectus abdominis muscle |
| 2 升结肠 ascending colon | 13 腹内斜肌 internal oblique muscle | 26 肾筋膜 renal fascia |
| 3 椎体 body of vertebra | 14 空肠 jejunum | 27 右膈脚 right crus of diaphragm |
| 4 降结肠 descending colon | 15 背阔肌 latissimus dorsi muscle | 28 右肾 right kidney |
| 5 竖脊肌 erector spinae muscle | 16 左膈脚 left crus of diaphragm | 29 右肾动脉 right renal artery |
| 6 腹外斜肌 external oblique muscle | 17 左肾 left kidney | 30 右肾静脉 right renal vein |
| 7 性腺动静脉 gonadal artery and vein | 18 左肾动脉 left renal artery | 31 肠系膜上动脉 superior mesenteric artery |
| 8 十二指肠水平部 horizontal (third) part of duodenum | 19 左肾静脉 left renal vein | 32 肠系膜下静脉 superior mesenteric vein |
| 9 回肠 ileum | 20 肾旁脂肪 pararenal fat | 33 硬脊膜囊 thecal sac |
| 10 肠系膜下动脉 inferior mesenteric artery | 21 肾周脂肪 perirenal fat | 34 腹横肌 transversus abdominis muscle |
| 11 肠系膜下静脉 inferior mesenteric vein | 22 肝右叶后段 posterior segment of right lobe of liver | 35 输尿管 ureter |
| | 23 腰大肌 psoas major muscle | |
| | 24 腰方肌 quadratus lumborum muscle | |



d~f. 腹部, 轴位 MRI。

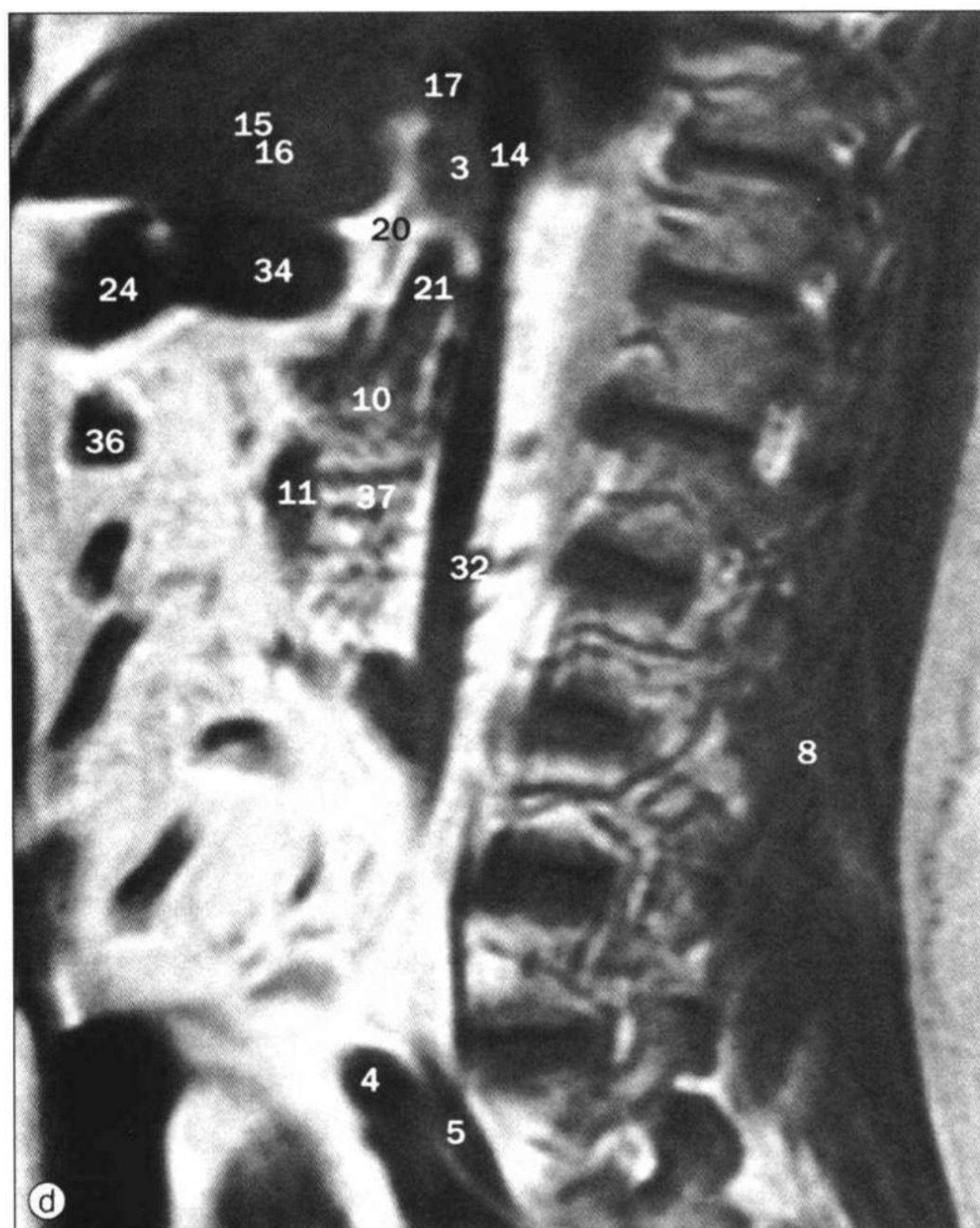
- | | |
|---------------------------------|--------------------------------------|
| 1 升结肠 ascending colon | 12 肠系膜下动脉 inferior mesenteric artery |
| 2 椎体 body of vertebra | 13 肠系膜下静脉 inferior mesenteric vein |
| 3 髂总动脉 common iliac artery | 14 下腔静脉 inferior vena cava |
| 4 髂总静脉 common iliac vein | 15 腹内斜肌 internal oblique muscle |
| 5 降结肠 descending colon | 16 椎间盘 intervertebral disc |
| 6 竖脊肌 erector spinae muscle | 17 腰大肌 psoas major muscle |
| 7 腹外斜肌 external oblique muscle | 18 腰方肌 quadratus lumborum muscle |
| 8 臀中肌 gluteus medius muscle | 19 腹直肌 rectus abdominis muscle |
| 9 性腺动静脉 gonadal artery and vein | 20 腹横肌 transversus abdominis muscle |
| 10 回肠 ileum | 21 输尿管 ureter |
| 11 髌骨 ilium | |



a~c. 腹部, 矢状位 MRI。

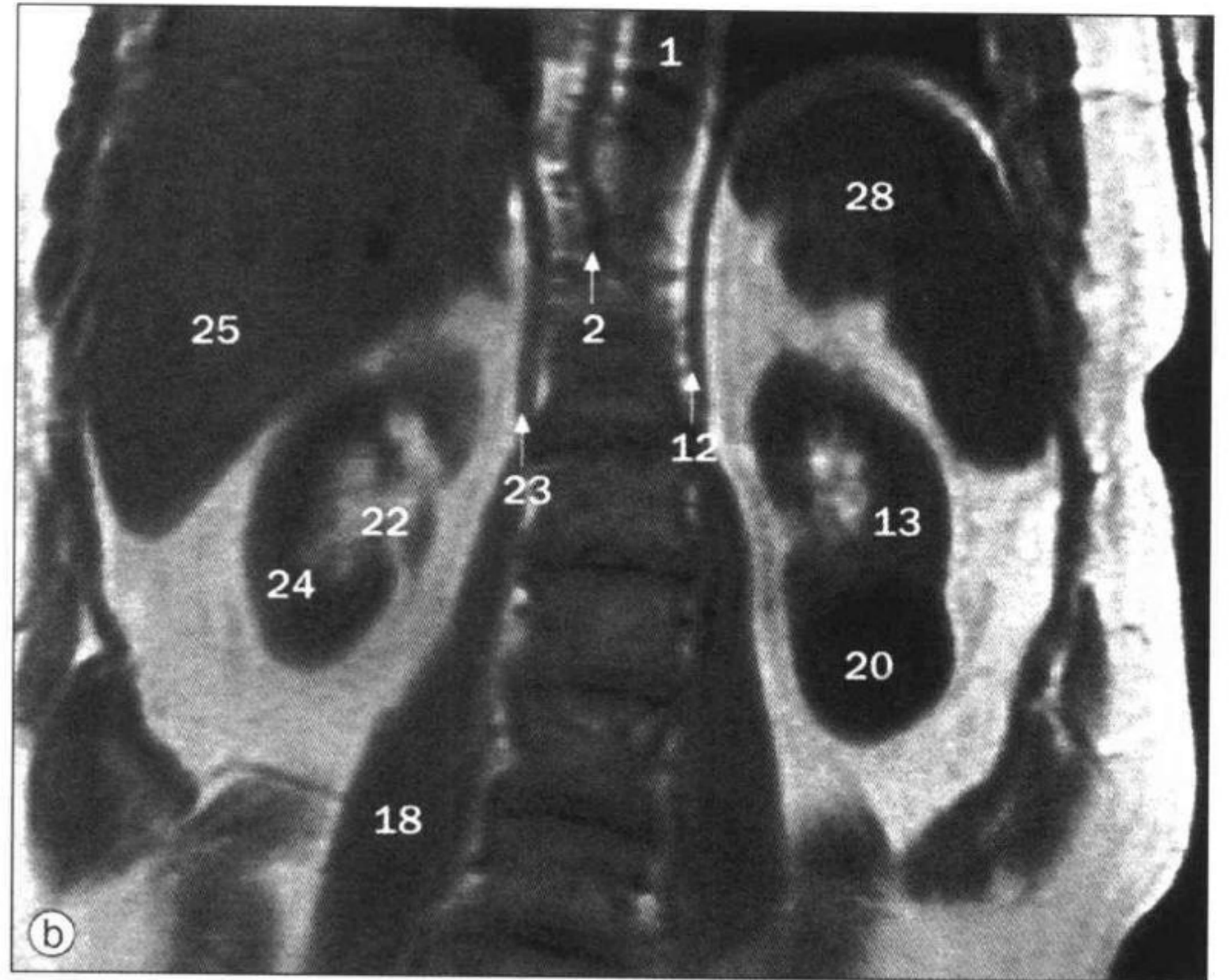
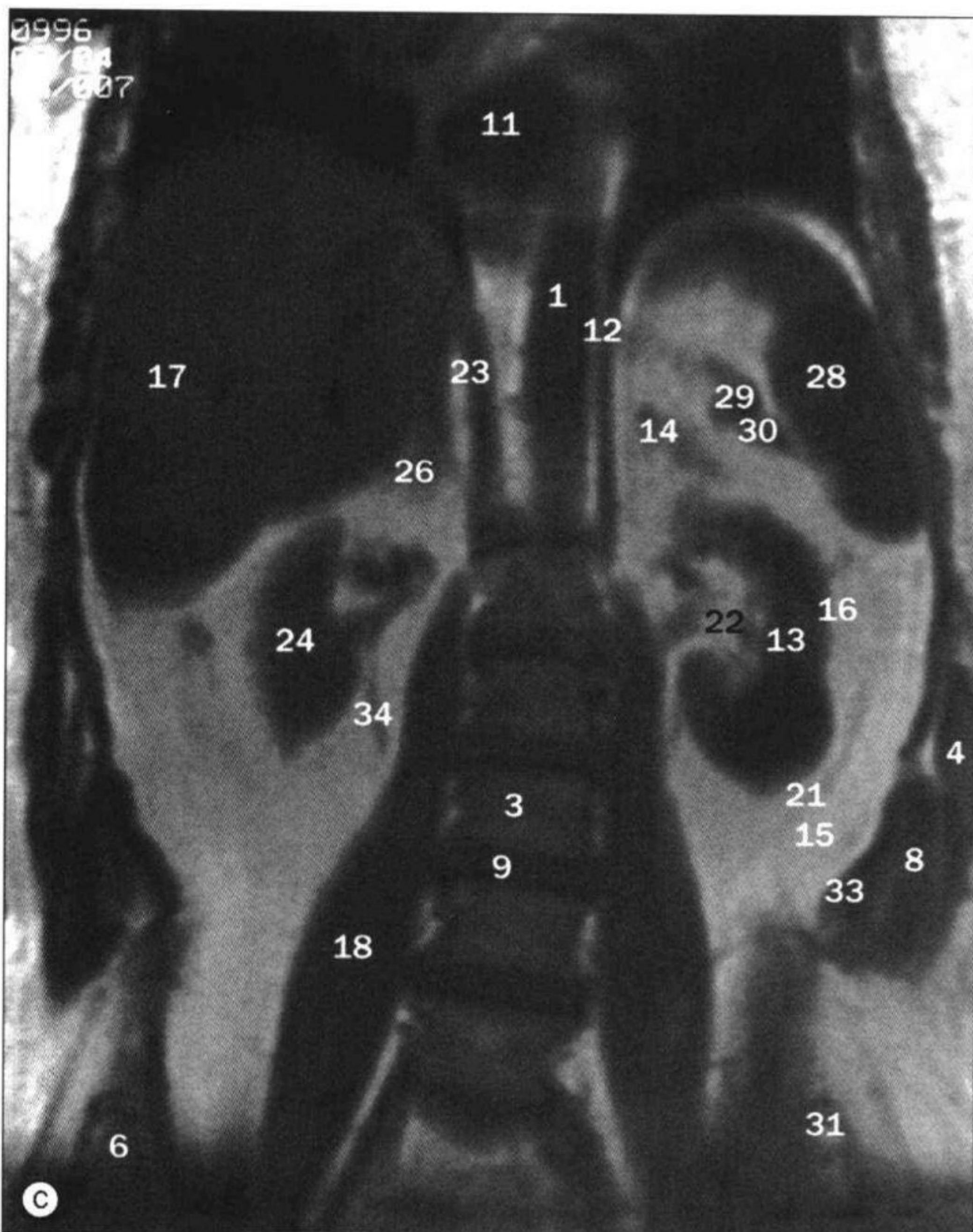
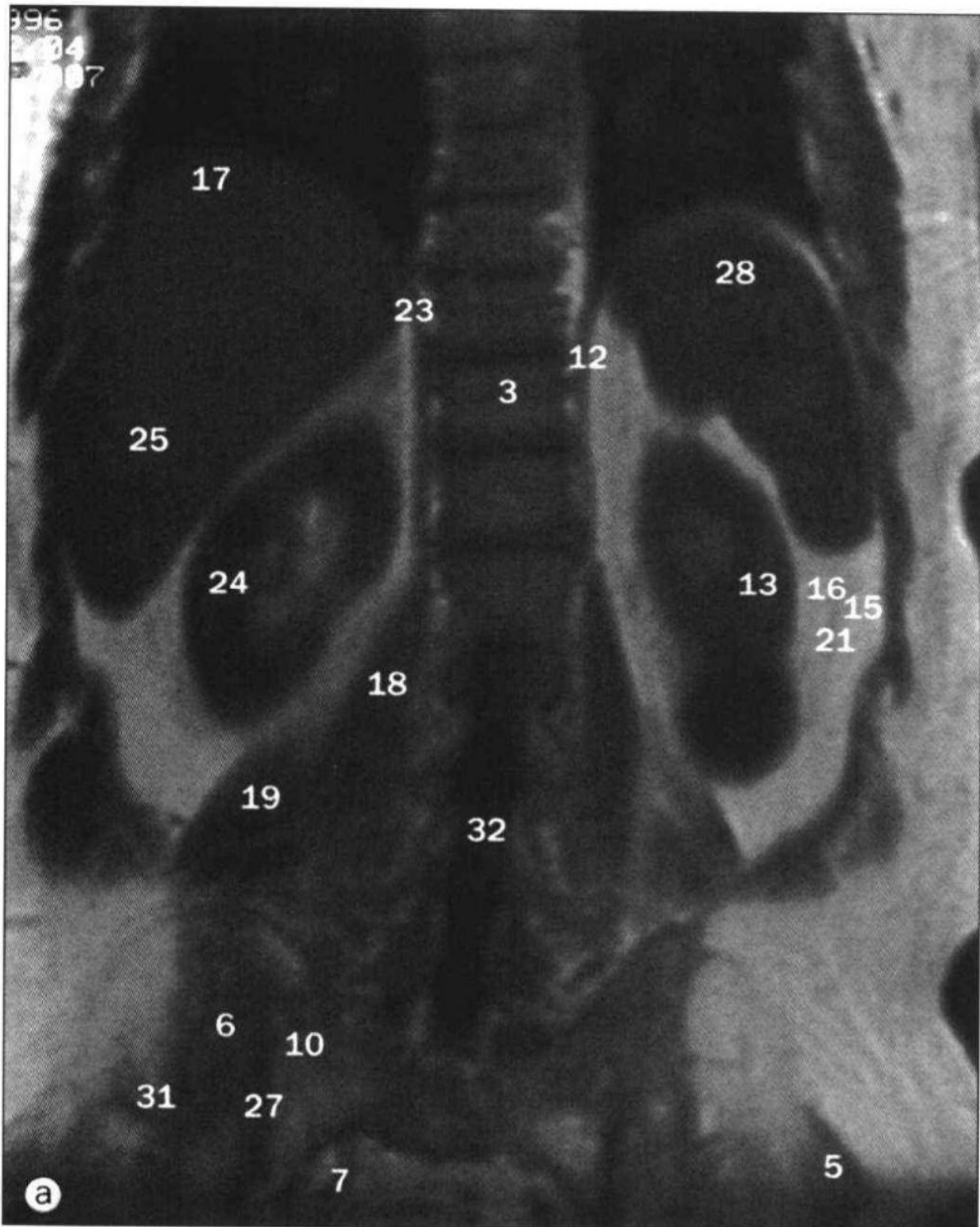
- | | |
|--|--|
| 1 主动脉 aorta | 17 肝左叶内侧段
medial segment of left lobe
of liver |
| 2 胰体 body of pancreas | 18 胰颈 neck of pancreas |
| 3 胃体 body of stomach | 19 食管 oesophagus |
| 4 椎体 body of vertebra | 20 肾周脂肪 perirenal fat |
| 5 腹腔干 coeliac trunk | 21 腰大肌 psoas major muscle |
| 6 髂总动脉
common iliac artery | 22 腰方肌
quadratus lumborum muscle |
| 7 膈 diaphragm | 23 腹直肌
rectus abdominis muscle |
| 8 竖脊肌
erector spinae muscle | 24 肾盂 renal pelvis |
| 9 胃底 fundus of stomach | 25 脾 spleen |
| 10 十二指肠水平部
horizontal (third) part
of duodenum | 26 脾动脉 splenic artery |
| 11 回肠 ileum | 27 脾静脉 splenic vein |
| 12 椎间盘
intervertebral disc | 28 肠系膜上动脉
superior mesenteric artery |
| 13 空肠 jejunum | 29 胰尾 tail of pancreas |
| 14 左肾 left kidney | 30 腱划 tendinous intersection |
| 15 左肾动脉
left renal artery | 31 横结肠 transverse colon |
| 16 左肾静脉
left renal vein | 32 输尿管 ureter |
| | 33 胸骨剑突
xiphoid process of sternum |





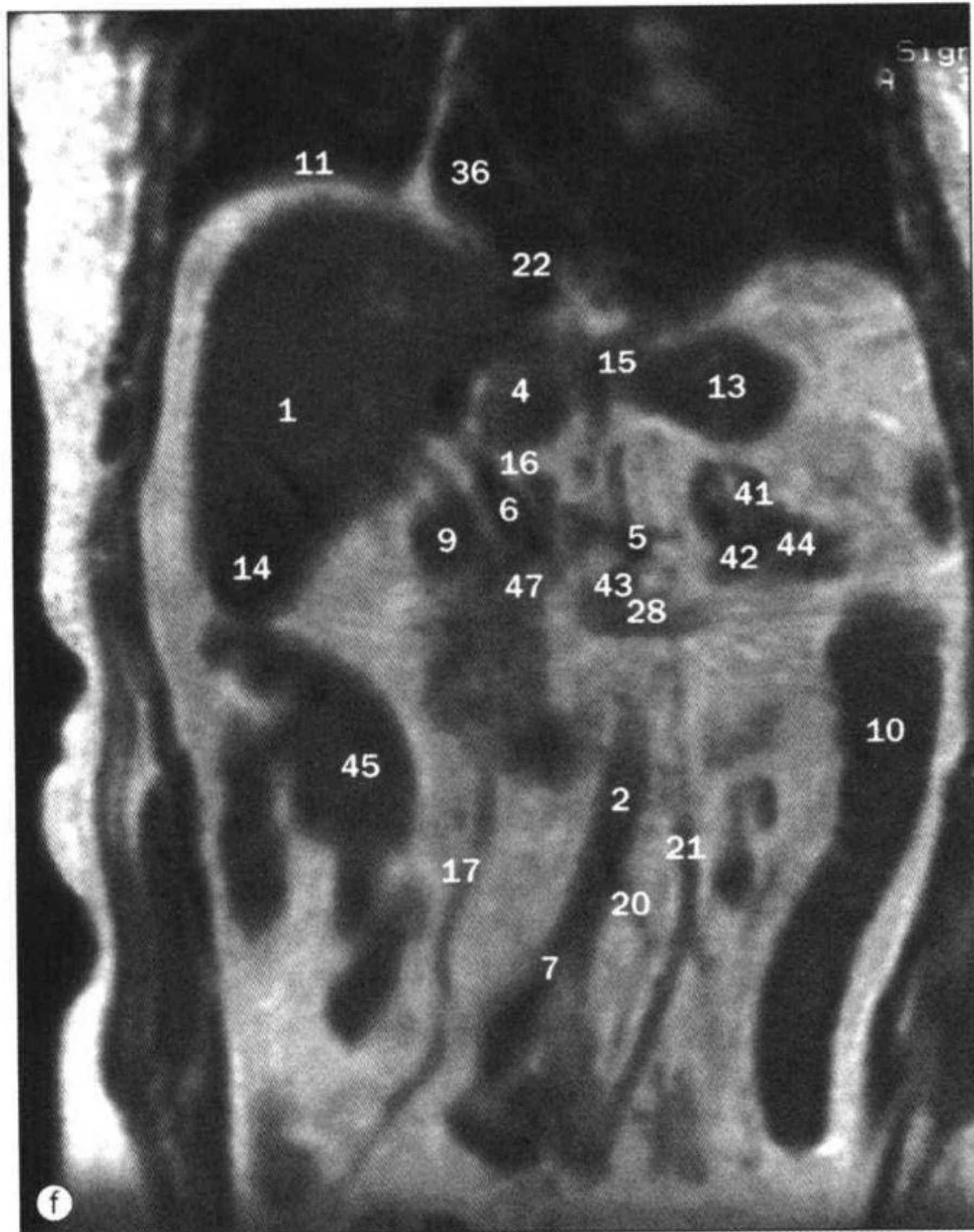
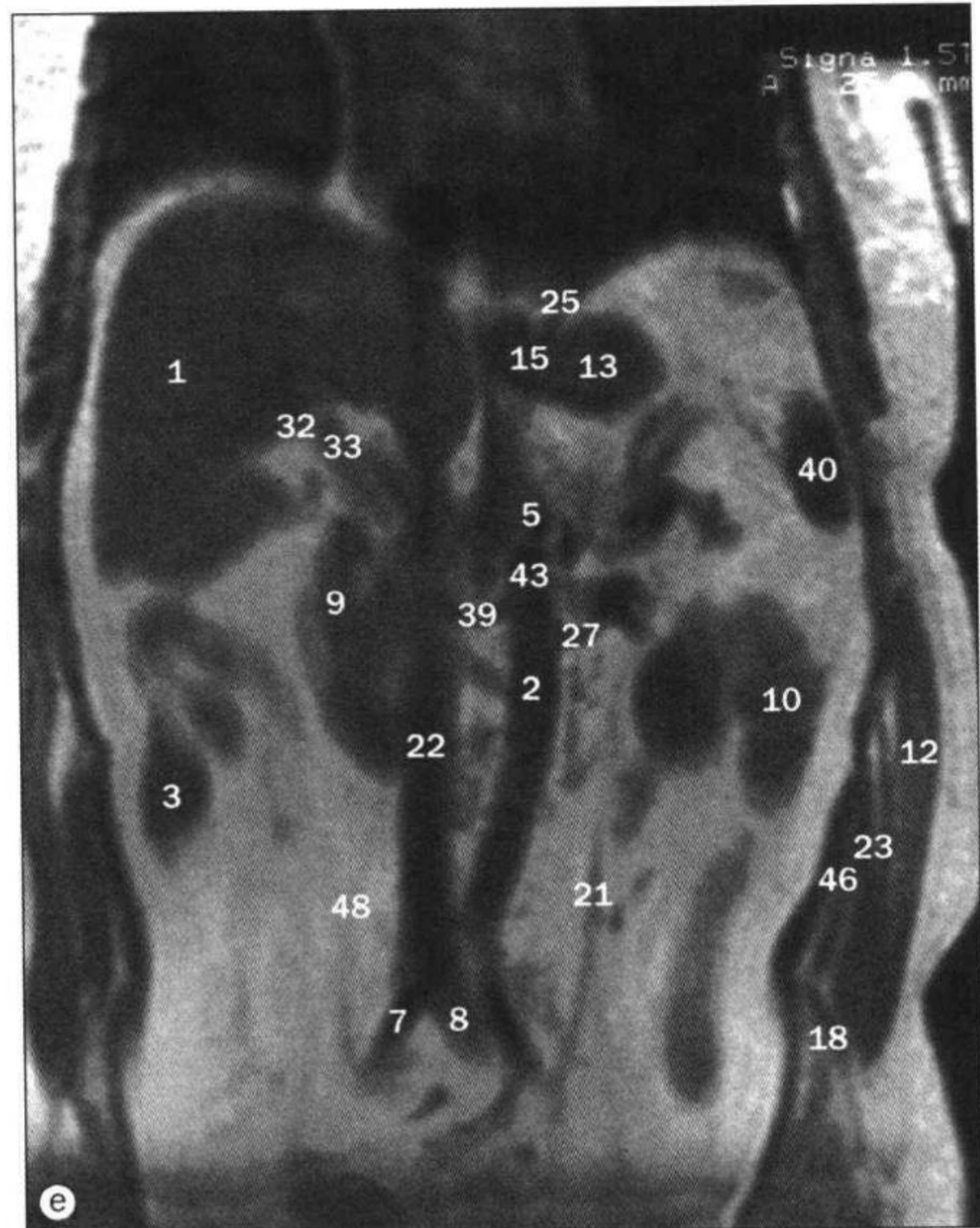
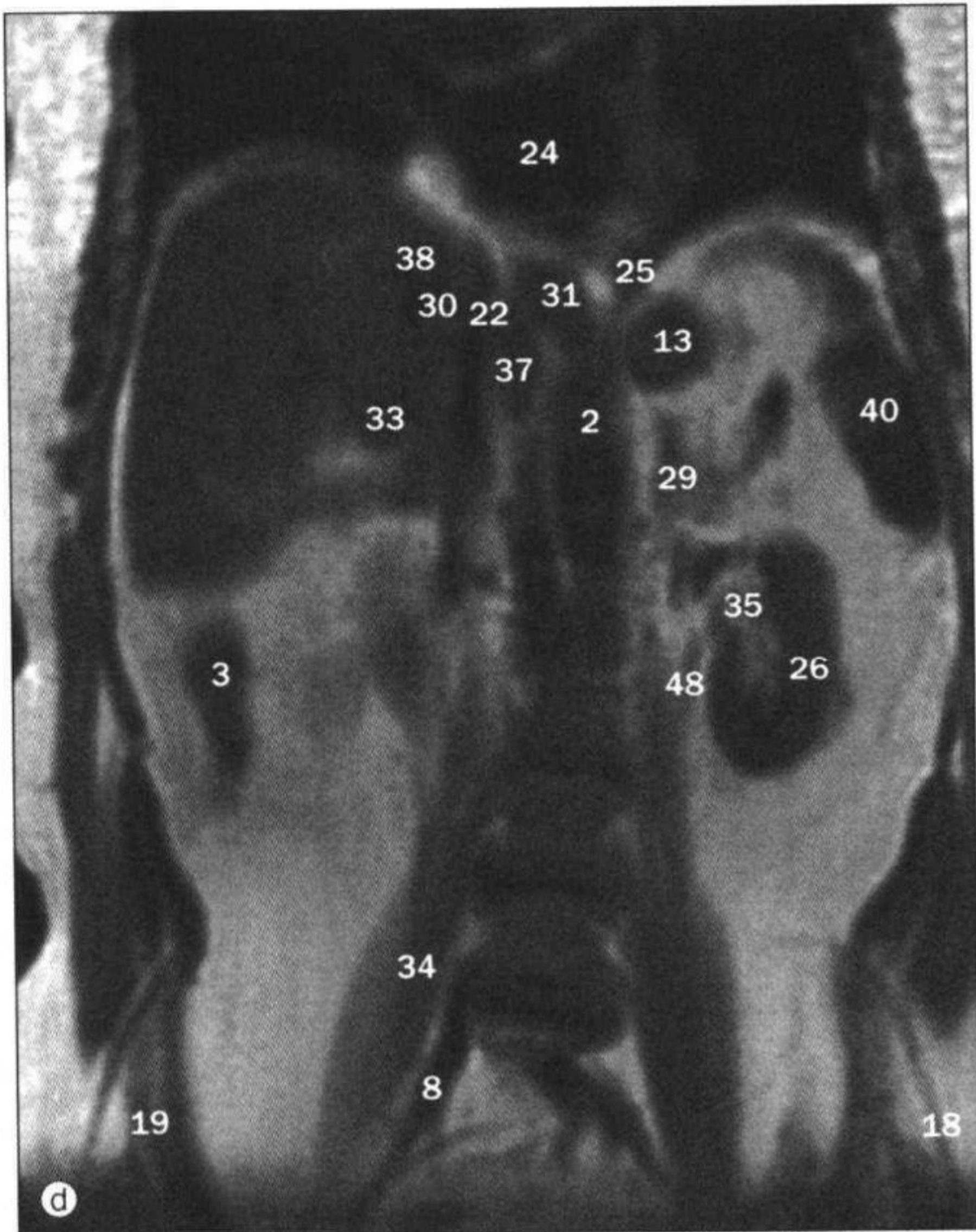
d~f. 腹部, 矢状位 MRI。

- | | |
|--|--|
| 1 肝右叶前段
anterior segment of right lobe of liver | 18 肾旁脂肪 pararenal fat |
| 2 升结肠 ascending colon | 19 肾周脂肪 perirenal fat |
| 3 肝尾状叶
caudate lobe of liver | 20 肝门 porta hepatis |
| 4 髂总动脉
common iliac artery | 21 门静脉 portal vein |
| 5 髂总静脉
common iliac vein | 22 肝右叶后段
posterior segment of right lobe of liver |
| 6 十二指肠降部 descending (second) part of duodenum | 23 腰大肌
psoas major muscle |
| 7 膈 diaphragm | 24 胃幽门部
pyloric part of stomach |
| 8 竖脊肌
erector spinae muscle | 25 腰方肌
quadratus lumborum muscle |
| 9 胆囊 gall bladder | 26 腹直肌
rectus abdominis muscle |
| 10 胰头 head of pancreas | 27 肾筋膜 renal fascia |
| 11 十二指肠水平部 horizontal (third) part of duodenum | 28 肾盂 renal pelvis |
| 12 回肠 ileum | 29 结肠右曲 right colic (hepatic) flexure |
| 13 髌骨 ilium | 30 肝右静脉
right hepatic vein |
| 14 下腔静脉
inferior vena cava | 31 右肾 right kidney |
| 15 肝左叶外侧段 lateral segment of left lobe of liver | 32 右肾动脉
right renal artery |
| 16 肝左静脉
left hepatic vein | 33 右肾静脉 right renal vein |
| 17 肝中静脉
middle hepatic vein | 34 十二指肠上部 superior (first) part of duodenum |
| | 35 腱划 tendinous intersection |
| | 36 横结肠 transverse colon |
| | 37 胰头钩突 uncinata process of head of pancreas |



a~c. 腹部，冠状位 MRI。注意，左侧肾脏小囊肿。

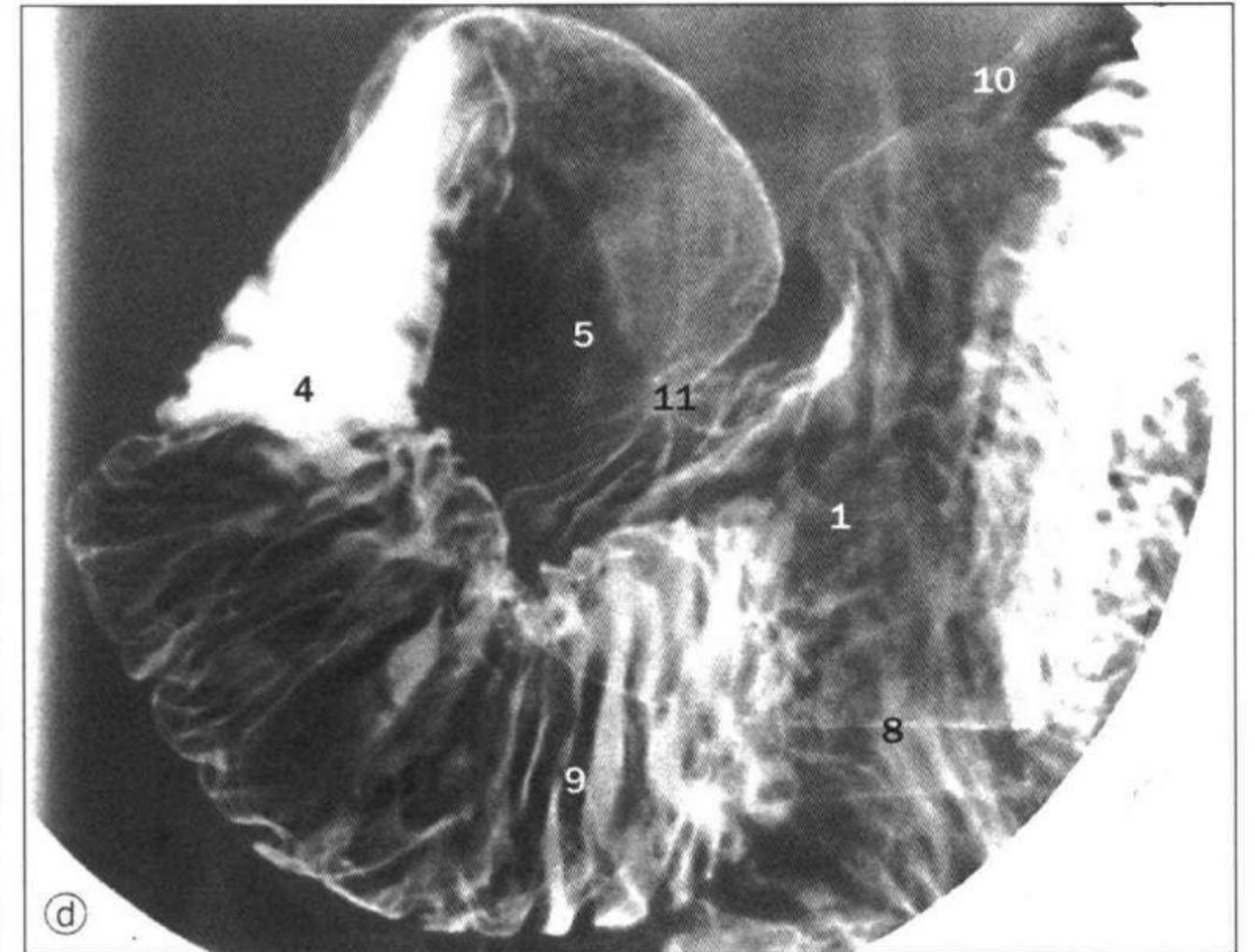
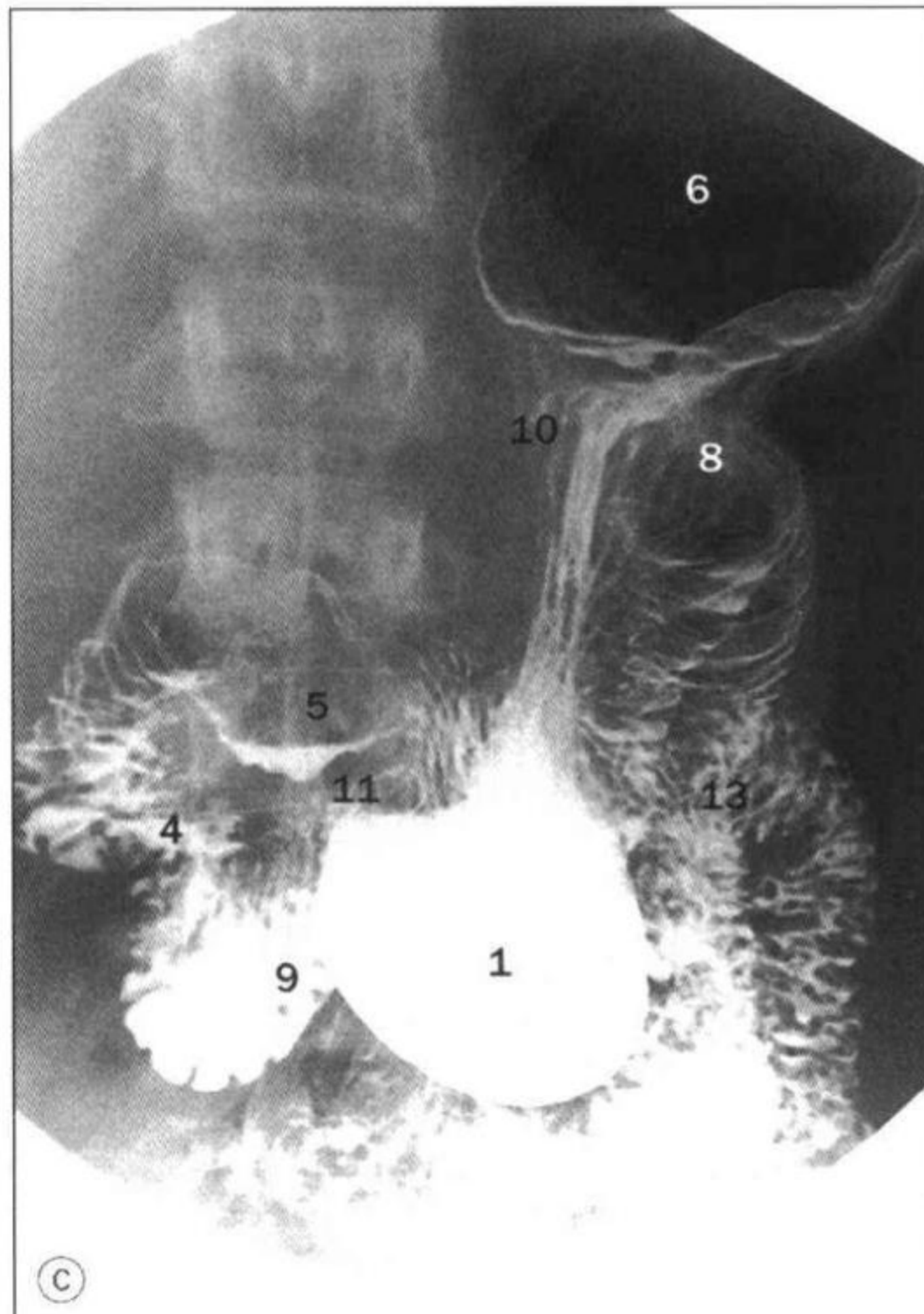
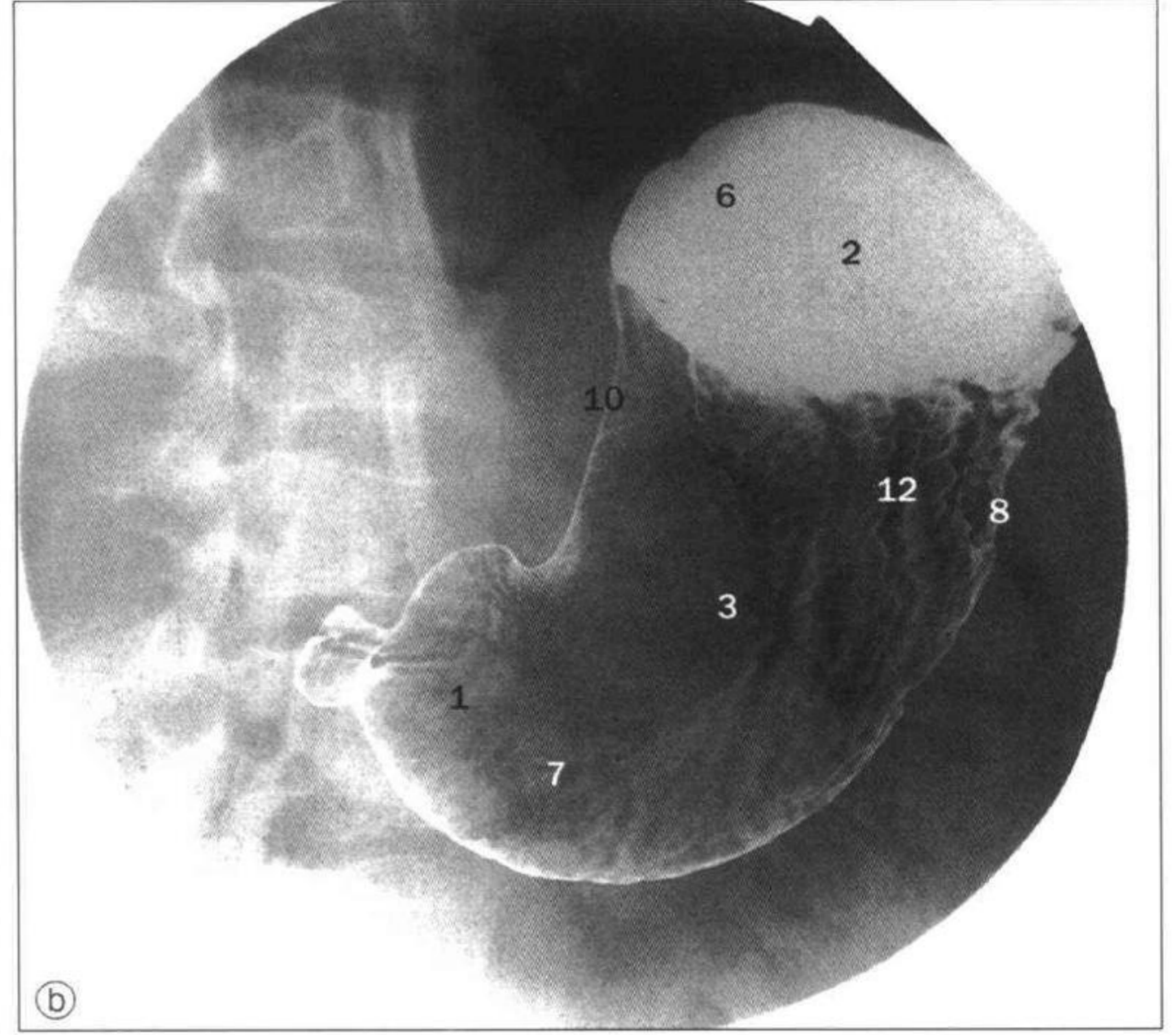
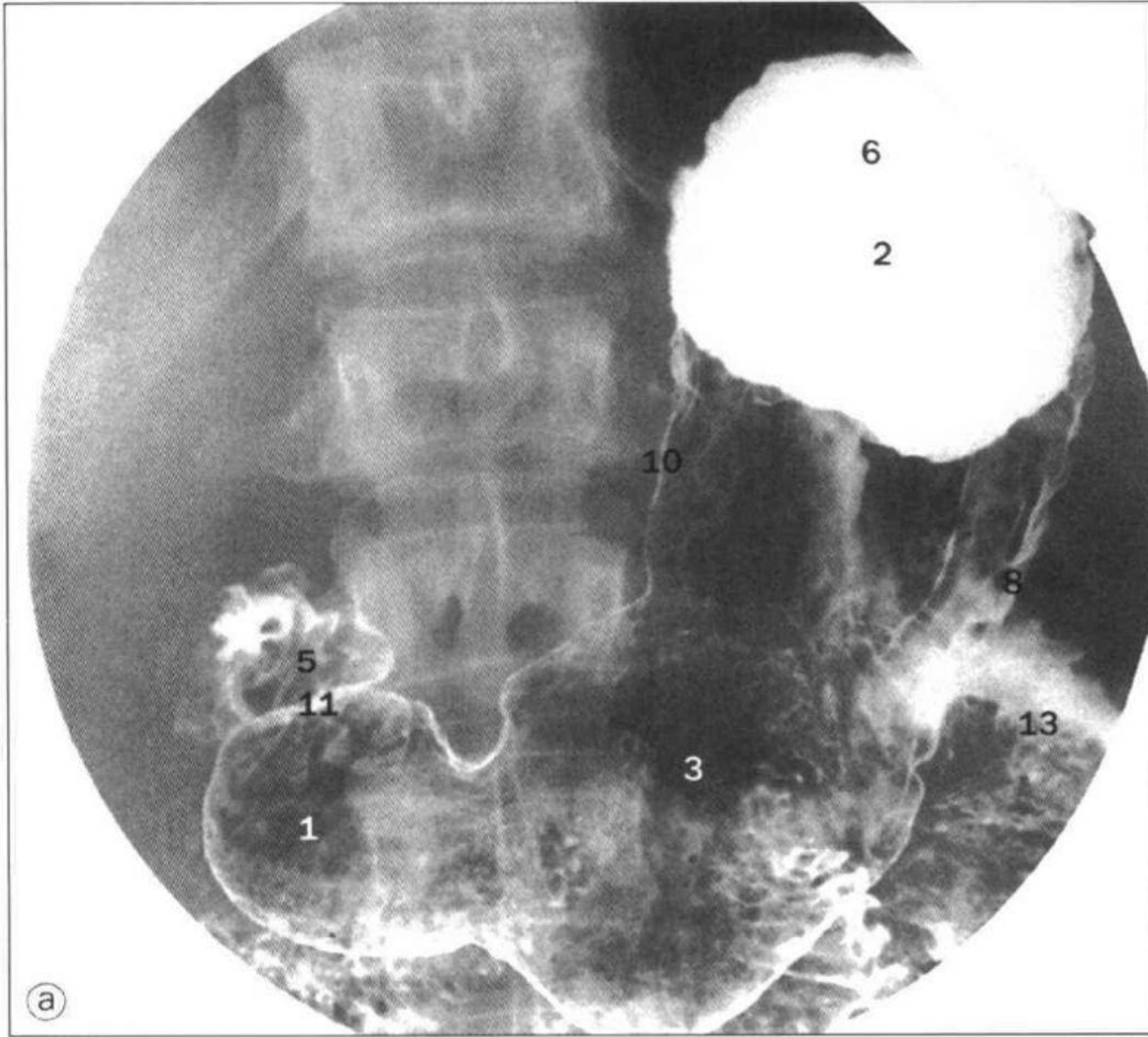
- | | |
|----------------------------|-------------------------|
| 1 主动脉 aorta | 18 腰大肌 |
| 2 奇静脉 azygos vein | psoas major muscle |
| 3 椎体 body of vertebra | 19 腰方肌 quadratus |
| 4 腹外斜肌 | lumborum muscle |
| 5 臀大肌 | 20 肾囊肿 renal cyst |
| gluteus maximus muscle | 21 肾筋膜 renal fascia |
| 6 髌骨 ilium | 22 肾盂 renal pelvis |
| 7 髌内动脉 | 23 右膈脚 |
| internal iliac artery | right crus of diaphragm |
| 8 腹内斜肌 | 24 右肾 right kidney |
| internal oblique muscle | 25 肝右叶 |
| 9 椎间盘 intervertebral disc | right lobe of liver |
| 10 骶骨外侧部 lateral part | 26 右肾上腺 |
| (ala) of sacrum | right suprarenal gland |
| 11 左心房 left atrium | 27 骶髌关节 |
| 12 左膈脚 | sacro-iliac joint |
| left crus of diaphragm | 28 脾 spleen |
| 13 左肾 left kidney | 29 脾动脉 splenic artery |
| 14 左肾上腺 | 30 脾静脉 splenic vein |
| left suprarenal gland | 31 臀上动脉 superior |
| 15 肾旁脂肪 pararenal fat | gluteal artery |
| 16 肾周脂肪 perirenal fat | 32 硬脊膜囊 thecal sac |
| 17 肝右叶后段 | 33 腹横肌 transversus |
| posterior segment of right | abdominis muscle |
| lobe of liver | 34 输尿管 ureter |



d~f. 腹部, 冠状位 MRI。

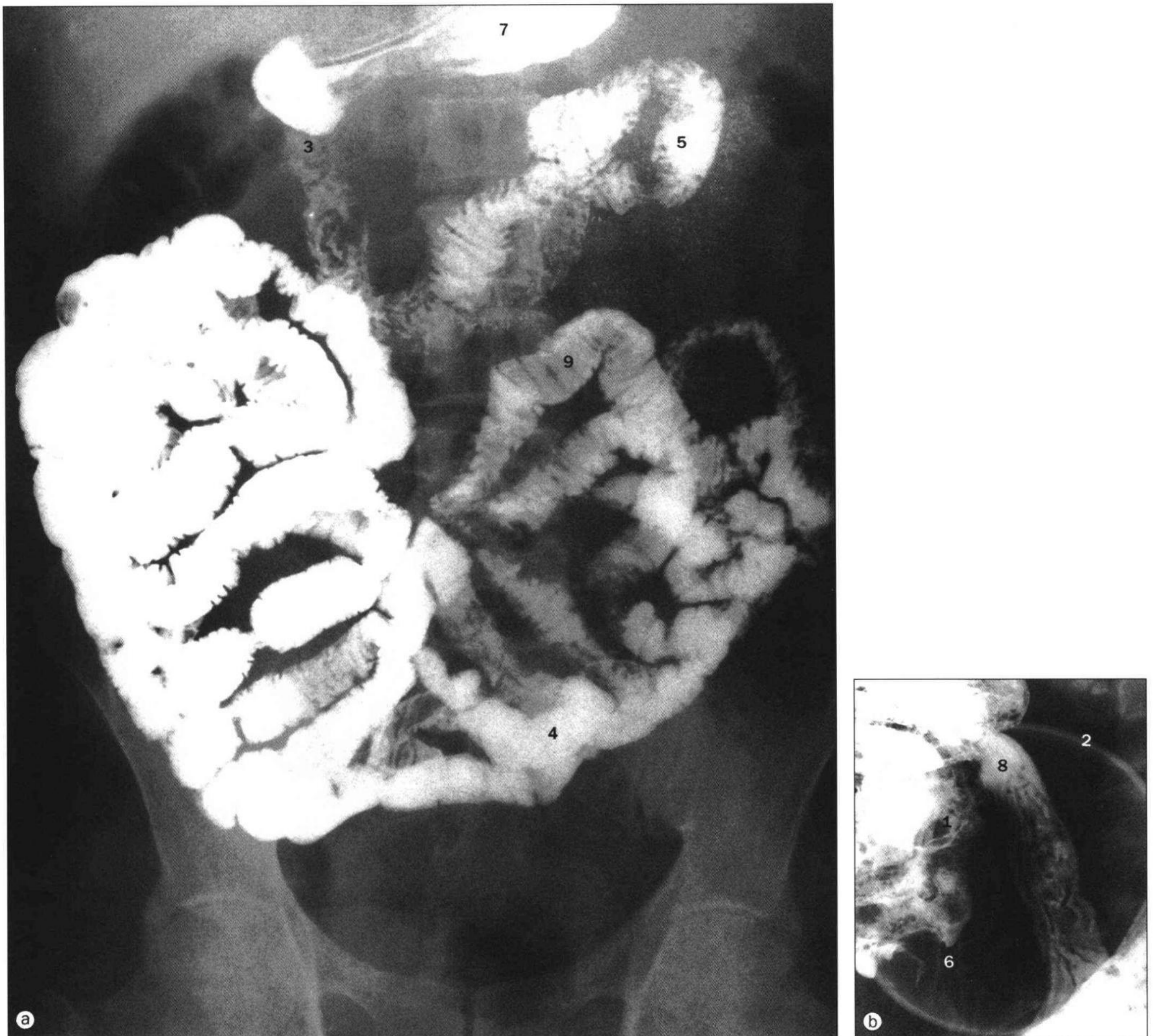
- | | |
|---|---------------------------------------|
| 1 肝右叶前段 anterior segment of right lobe of liver | 15 胃食管连接部 gastro-oesophageal junction |
| 2 主动脉 aorta | 16 肝动脉 hepatic artery |
| 3 升结肠 ascending colon | 17 回结肠动脉 ileocolic artery |
| 4 肝尾叶 caudate lobe of liver | 18 髂胫束 iliotibial tract |
| 5 腹腔干 coeliac trunk | 19 髌骨 ilium |
| 6 胆总管 common bile duct | 20 肠系膜下动脉 inferior mesenteric artery |
| 7 髂总动脉 common iliac artery | 21 肠系膜下静脉 inferior mesenteric vein |
| 8 髂总静脉 common iliac vein | 22 下腔静脉 inferior vena cava |
| 9 十二指肠降部 descending (second) part of duodenum | 23 腹内斜肌 internal oblique muscle |
| 10 降结肠 Descending colon | 24 左心房 left atrium |
| 11 膈 diaphragm | 25 左膈脚 left crus of diaphragm |
| 12 腹外斜肌 external oblique muscle | 26 左肾 left kidney |
| 13 胃底 fundus of stomach | 27 左肾动脉 left renal artery |
| 14 胆囊 gall bladder | |

- | | | | |
|-------------------------------|--------------------------------|--------------------------------------|---|
| 28 左肾静脉 left renal vein | 34 腰大肌 psoas major muscle | 39 右肾动脉 right renal artery | 45 横结肠 transverse colon |
| 29 左肾上腺 left suprarenal gland | 35 肾盂 renal pelvis | 40 脾 spleen | 46 腹横肌 transversus abdominis muscle |
| 30 肝中静脉 middle hepatic vein | 36 右心房 right atrium | 41 脾动脉 splenic artery | 47 胰头钩突 uncinat process of head of pancreas |
| 31 食管 oesophagus | 37 右膈脚 right crus of diaphragm | 42 脾静脉 splenic vein | 48 输尿管 ureter |
| 32 肝门 porta hepatis | 38 肝右静脉 right hepatic vein | 43 肠系膜上动脉 superior mesenteric artery | |
| 33 门静脉 portal vein | | 44 胰尾 tail of pancreas | |



腹部，胃、十二指肠气钡双重造影。
a, b. 仰卧位 (显示胃黏膜)。
c. 立位。
d. 斜仰卧位 (显示十二指肠)。

- 1 胃窦 antrum of stomach
- 2 钡充盈胃底 barium pooling in fundus of stomach
- 3 胃体 body of stomach
- 4 十二指肠降部 descending (second) part of duodenum
- 5 十二指肠上部
duodenal cap (superior or first part of duodenum)
- 6 胃底 fundus of stomach
- 7 气泡 gas bubbles
- 8 胃大弯 greater curvature of stomach
- 9 十二指肠水平部 horizontal (third) part of duodenum
- 10 胃小弯 lesser curvature of stomach
- 11 幽门管区 region of pyloric canal
- 12 胃皱襞 rugae of stomach
- 13 小肠 small bowel



腹部，钡剂造影。a. 仰卧位；b. 前后位，显示结肠末端的局部。

- | | |
|---|---|
| 1 盲肠 caecum | 6 右骶髂关节 right sacro-iliac joint |
| 2 压迫装置 compression device | 7 胃 stomach |
| 3 十二指肠降部 descending (second) part of duodenum | 8 回肠末端 terminal ileum |
| 4 回肠近端 proximal ileum | 9 空肠环状襻 |
| 5 空肠近端 proximal jejunum | valvulae conniventes (plicae circulares) of jejunum |



腹部，结肠气钡双重造影。

1 升结肠 ascending portion of colon

2 盲肠 caecum

3 降结肠 descending portion of colon

4 结肠左曲 left colic (splenic) flexure of colon

5 直肠 rectum

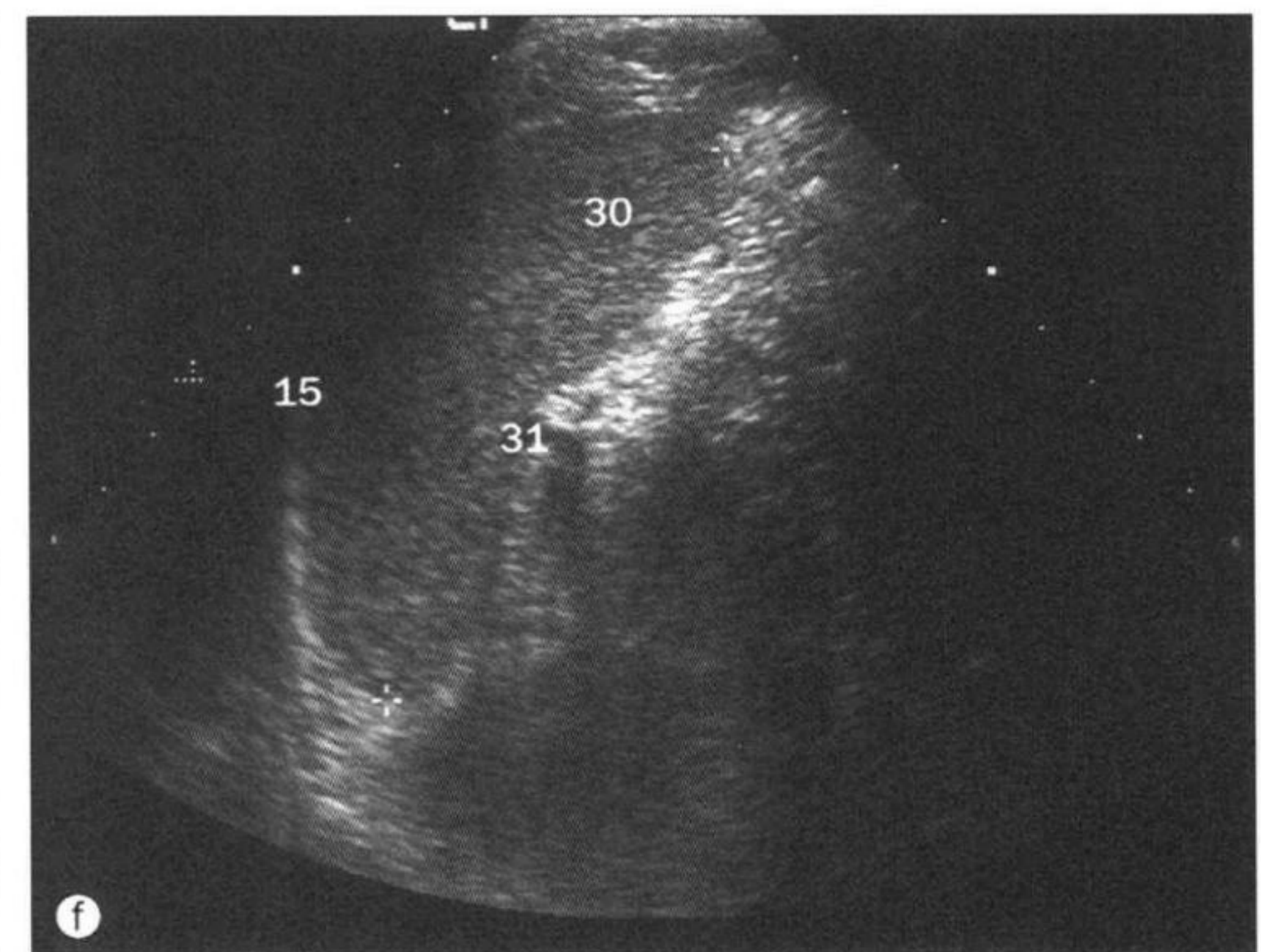
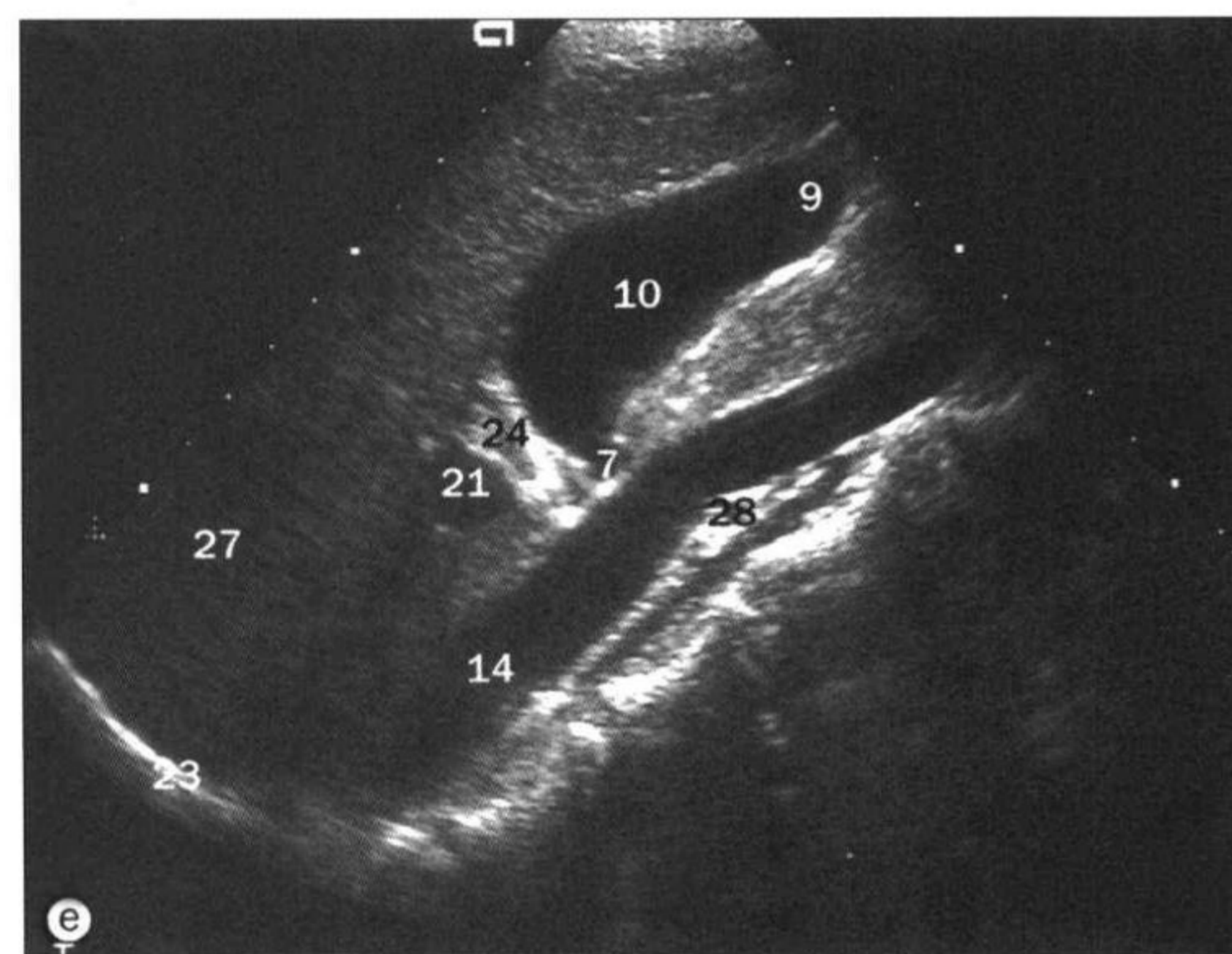
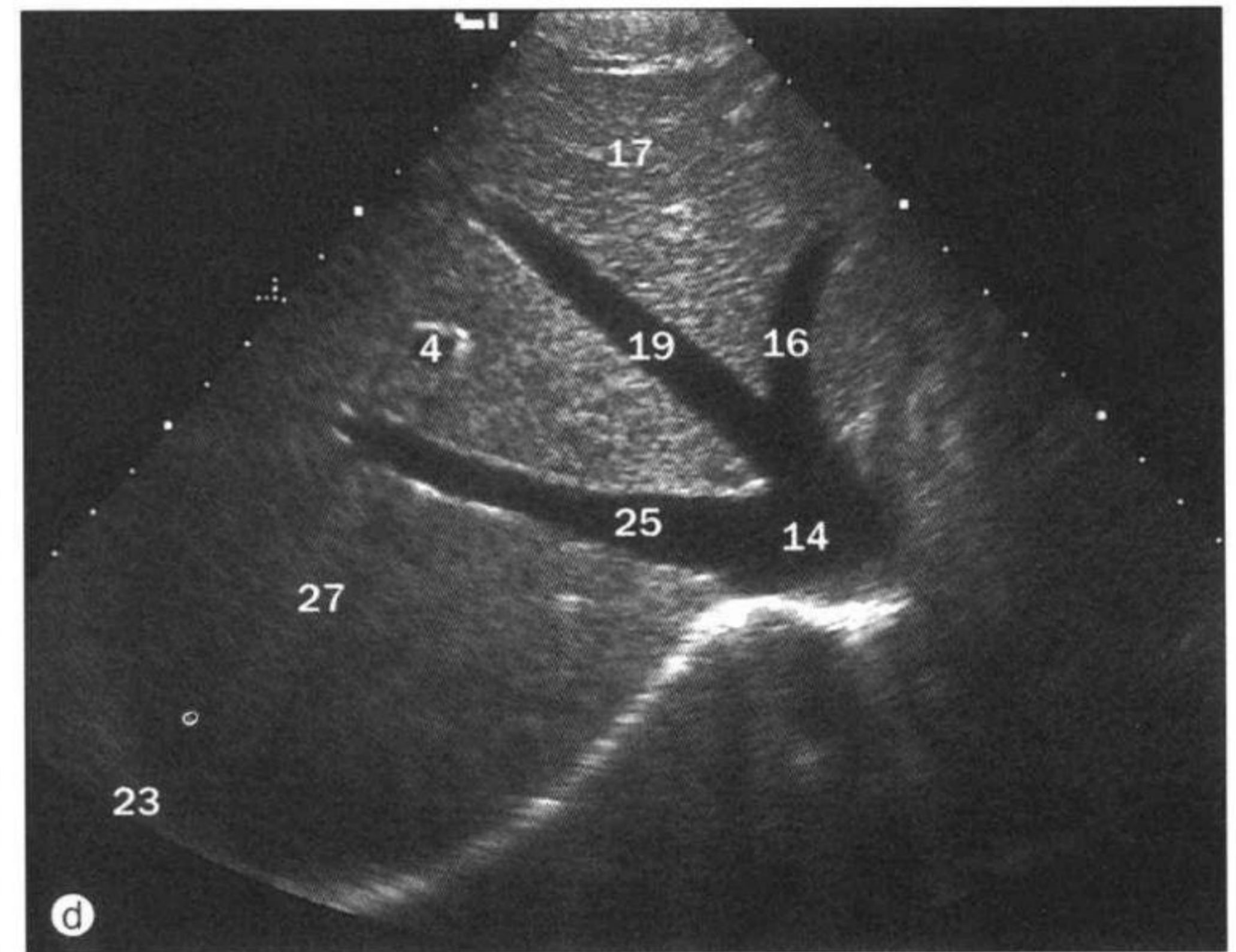
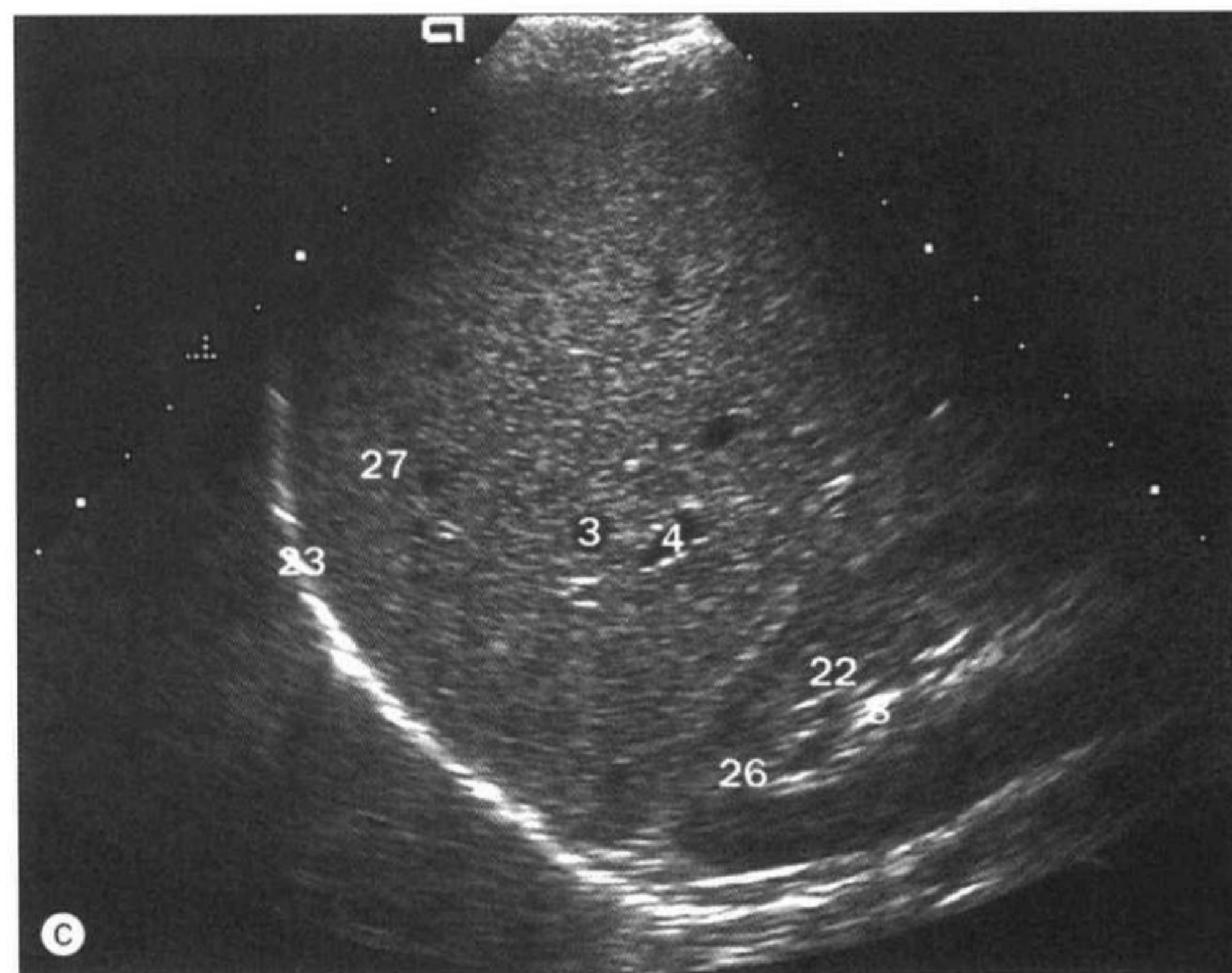
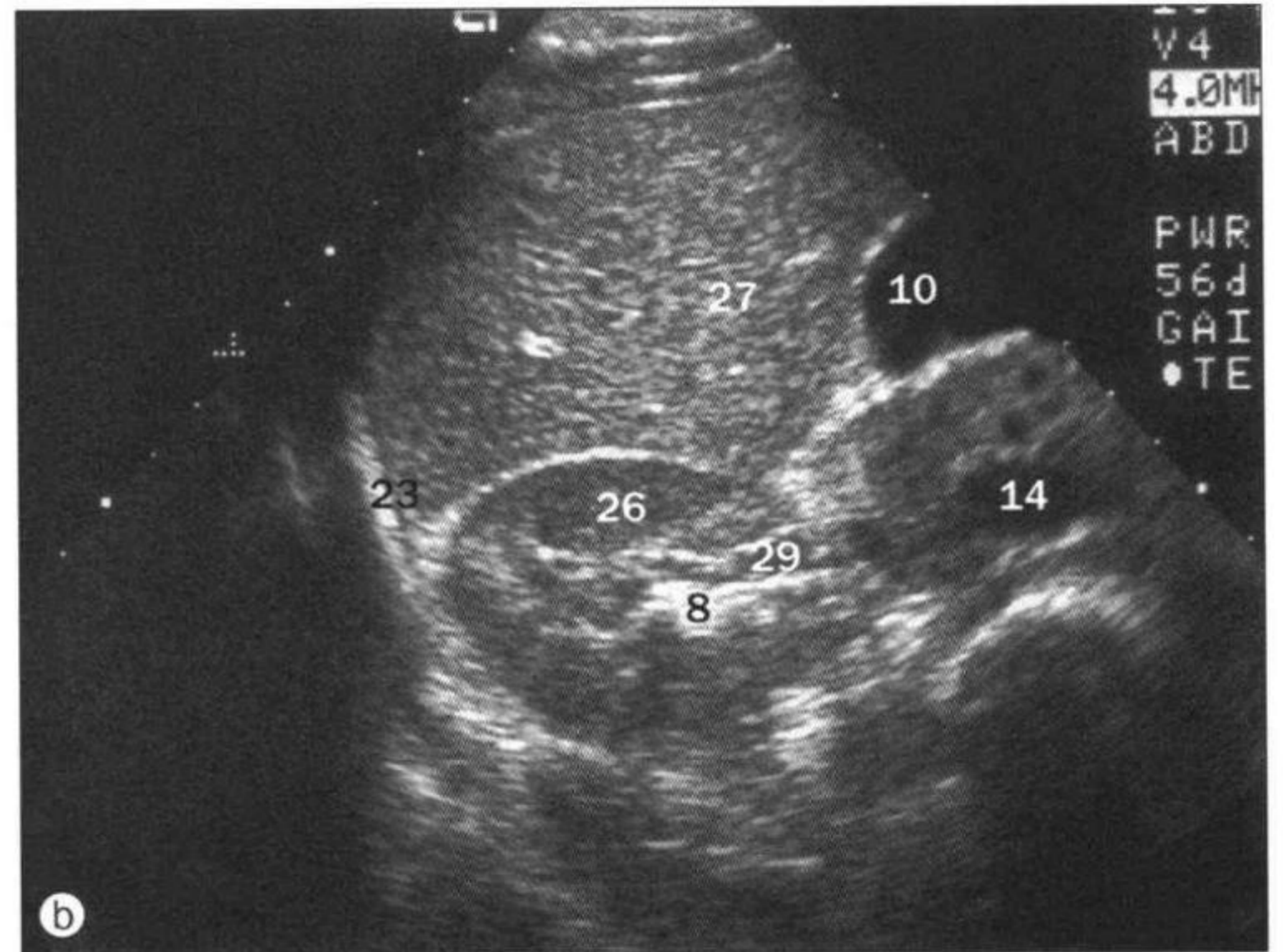
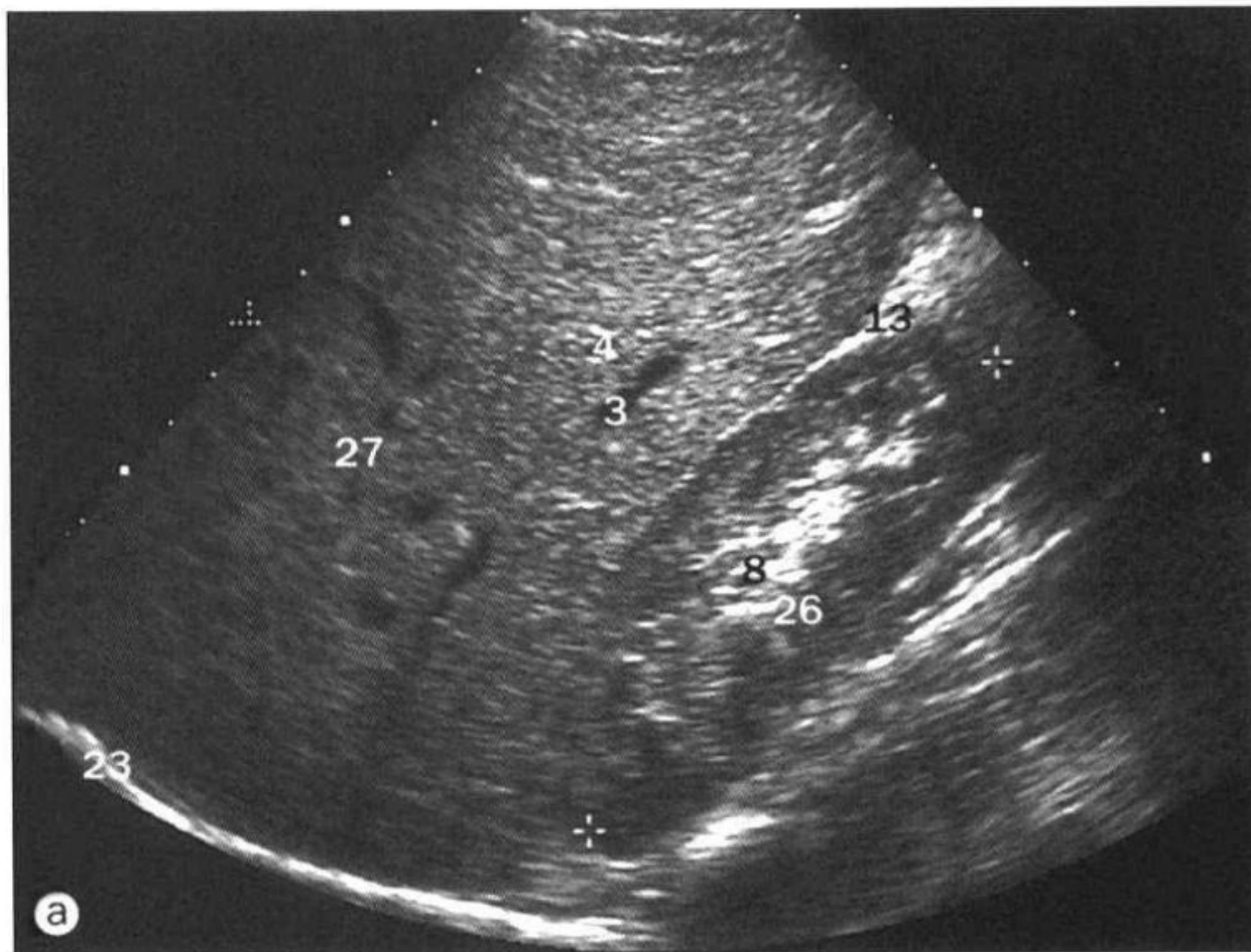
6 结肠右曲 right colic (hepatic) flexure of colon

7 结肠袋 sacculations (haustrations) of colon

8 乙状结肠 sigmoid colon

9 回肠末端 terminal ileum

10 横结肠 transverse portion of colon



a~f. 腹部，超声，矢状位和旁矢状位。

1 腹主动脉 abdominal aorta

2 胰体 body of pancreas

3 肝静脉分支 branch of hepatic vein

4 门静脉分支 branch of portal vein

5 腹腔干 coeliac trunk

6 胆总管 common bile duct

7 胆管 cystic duct

8 肾窦脂肪 fat in renal sinus

9 胆囊底 fundus of gall bladder

10 胆囊 gall bladder

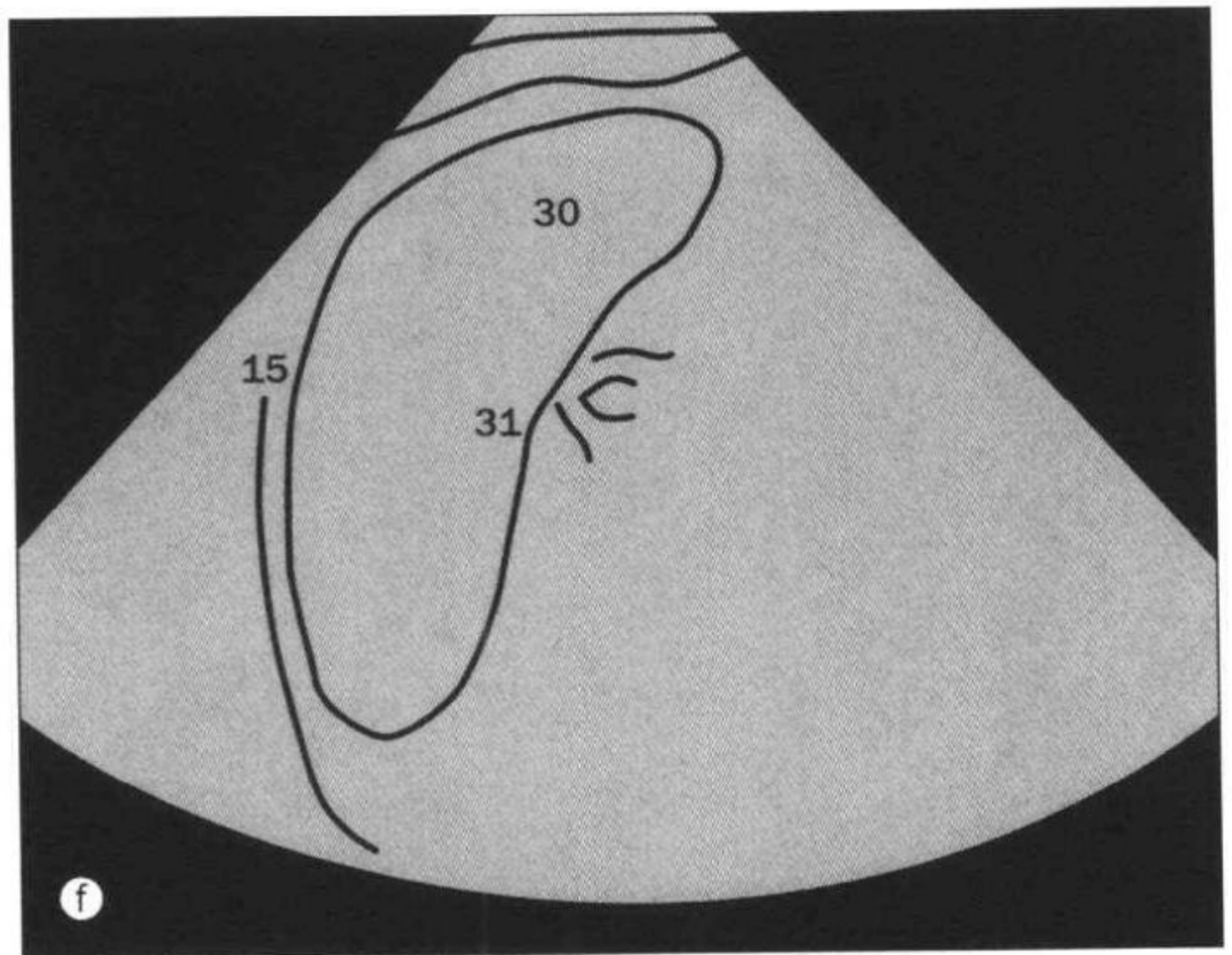
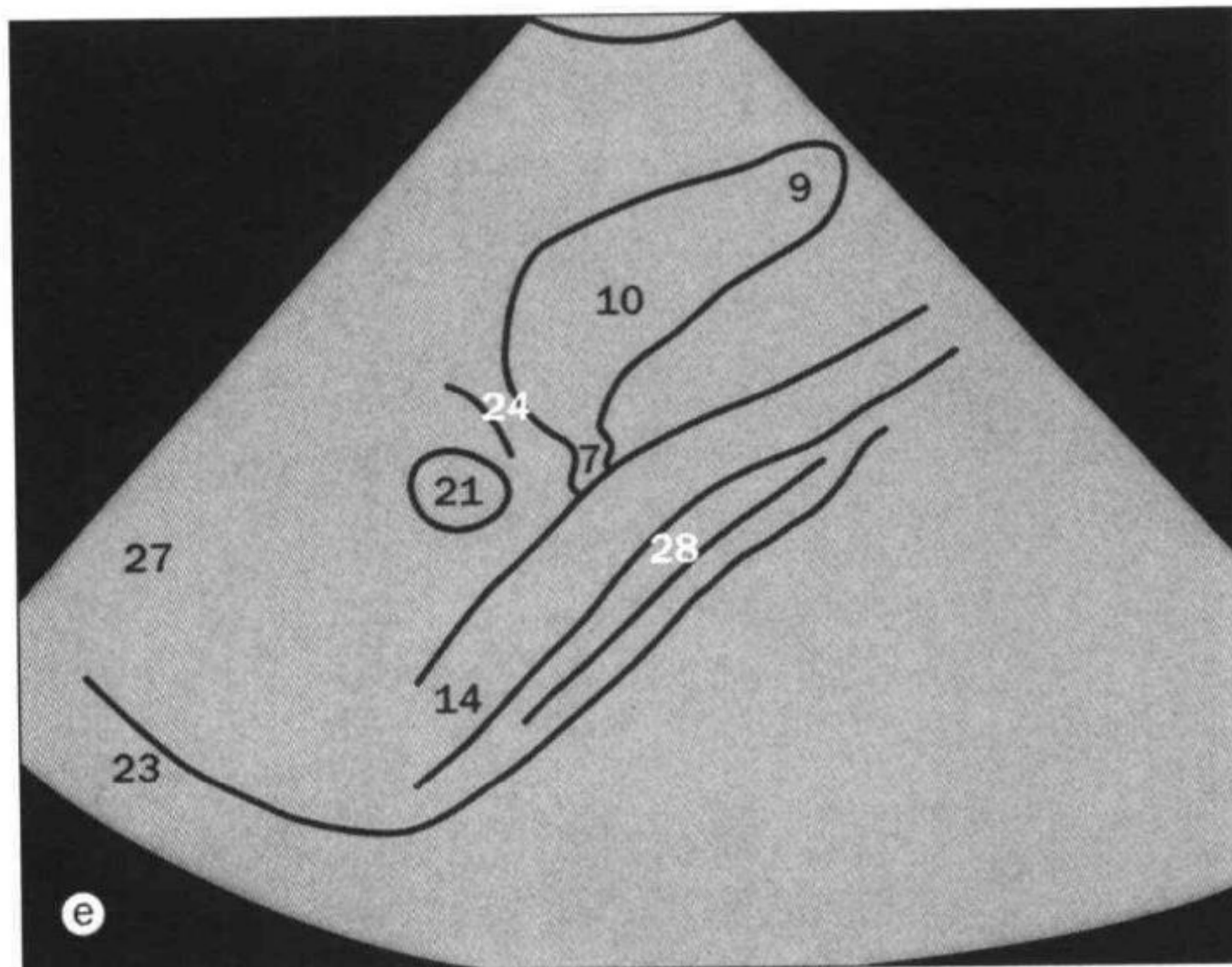
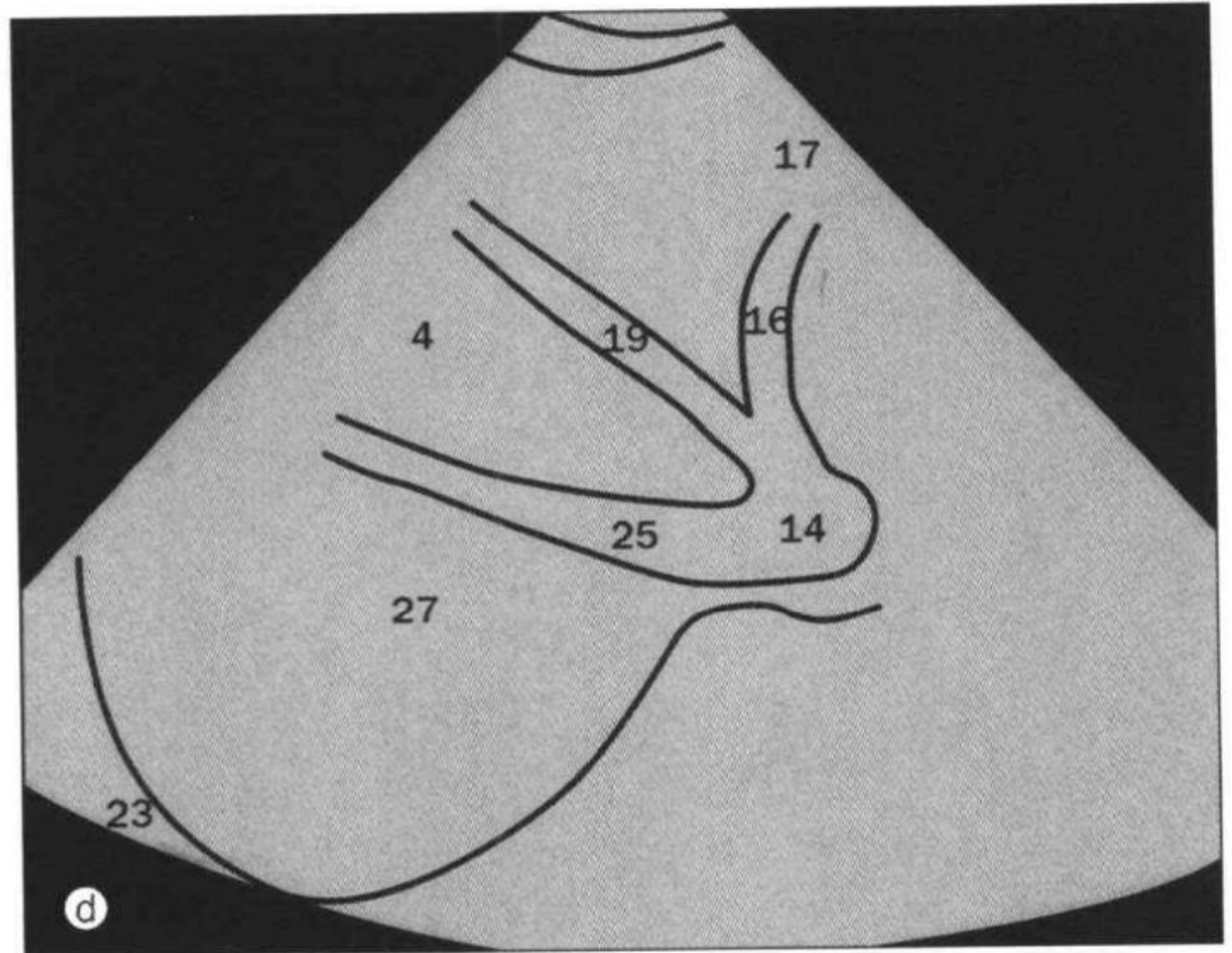
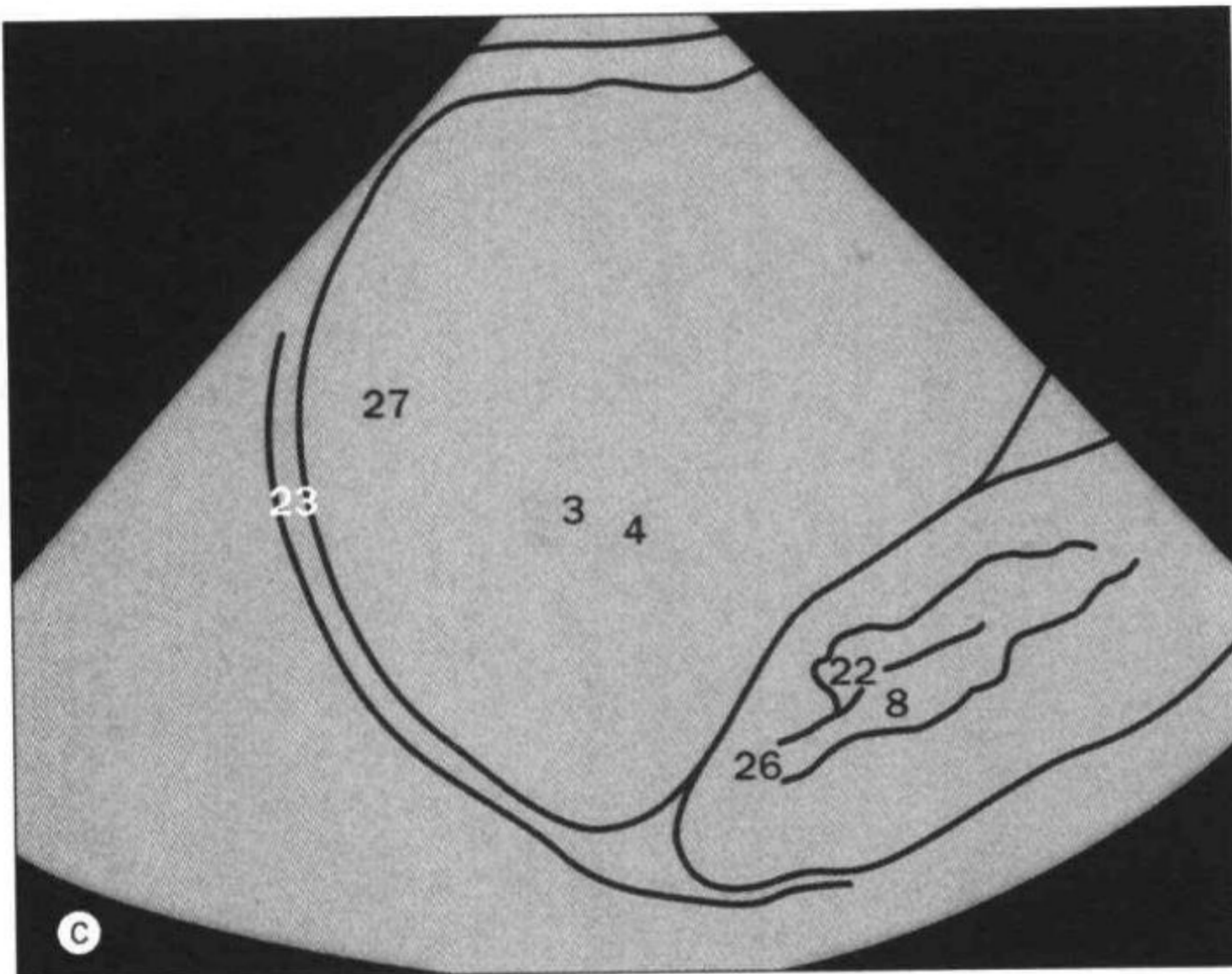
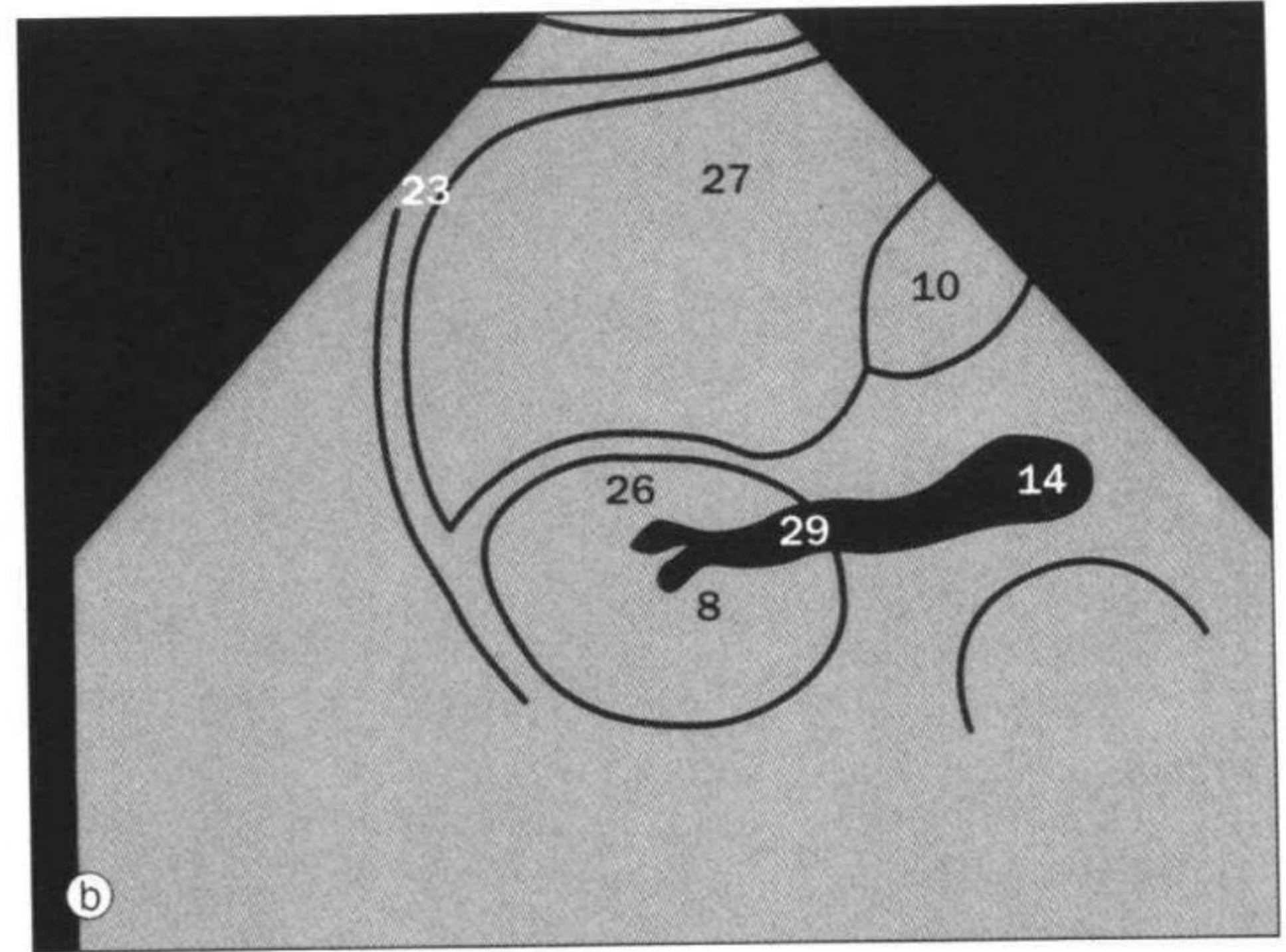
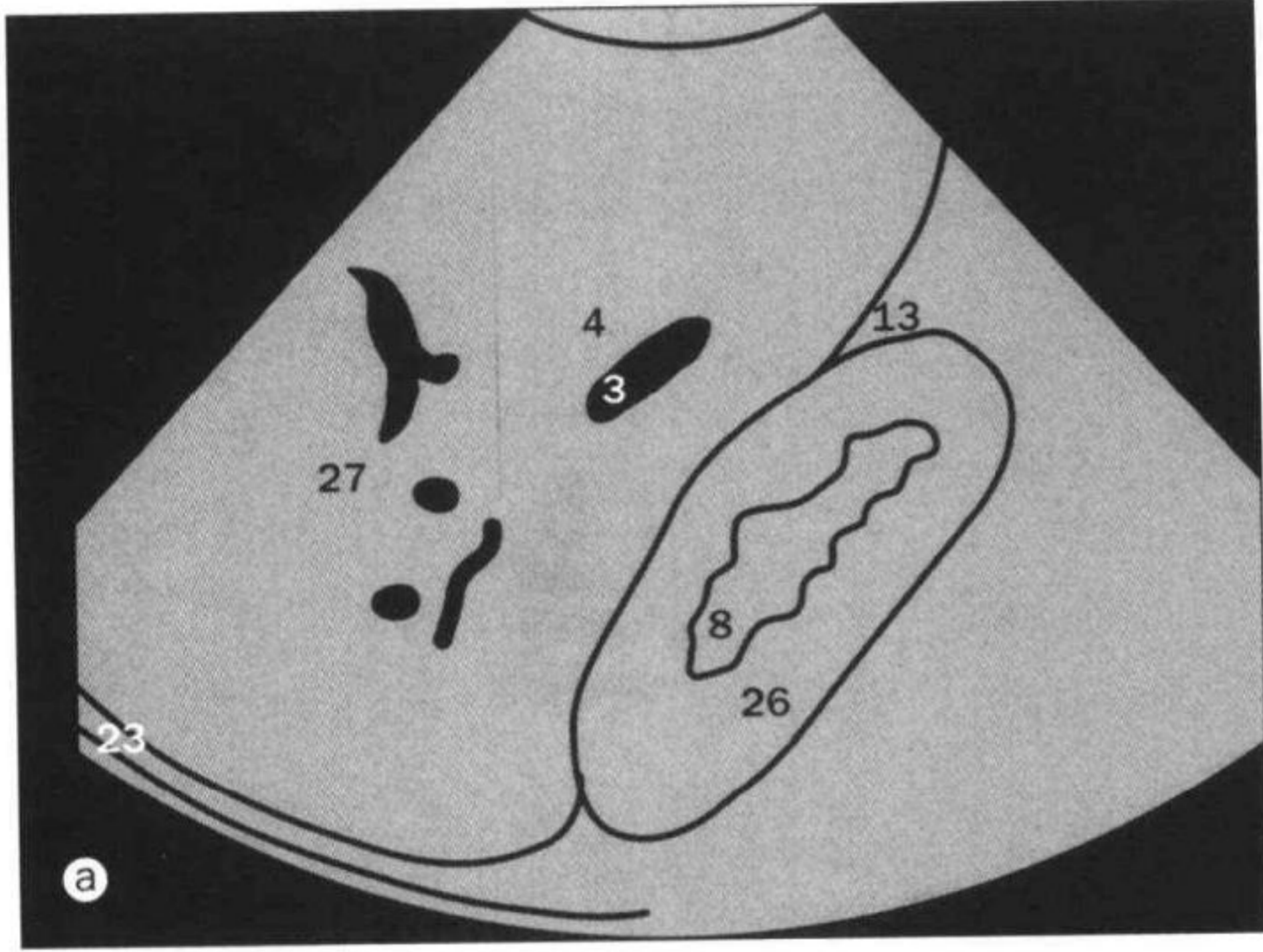
11 胰头 head of pancreas

12 肝动脉 hepatic artery

13 肝肾隐窝 hepatorenal recess

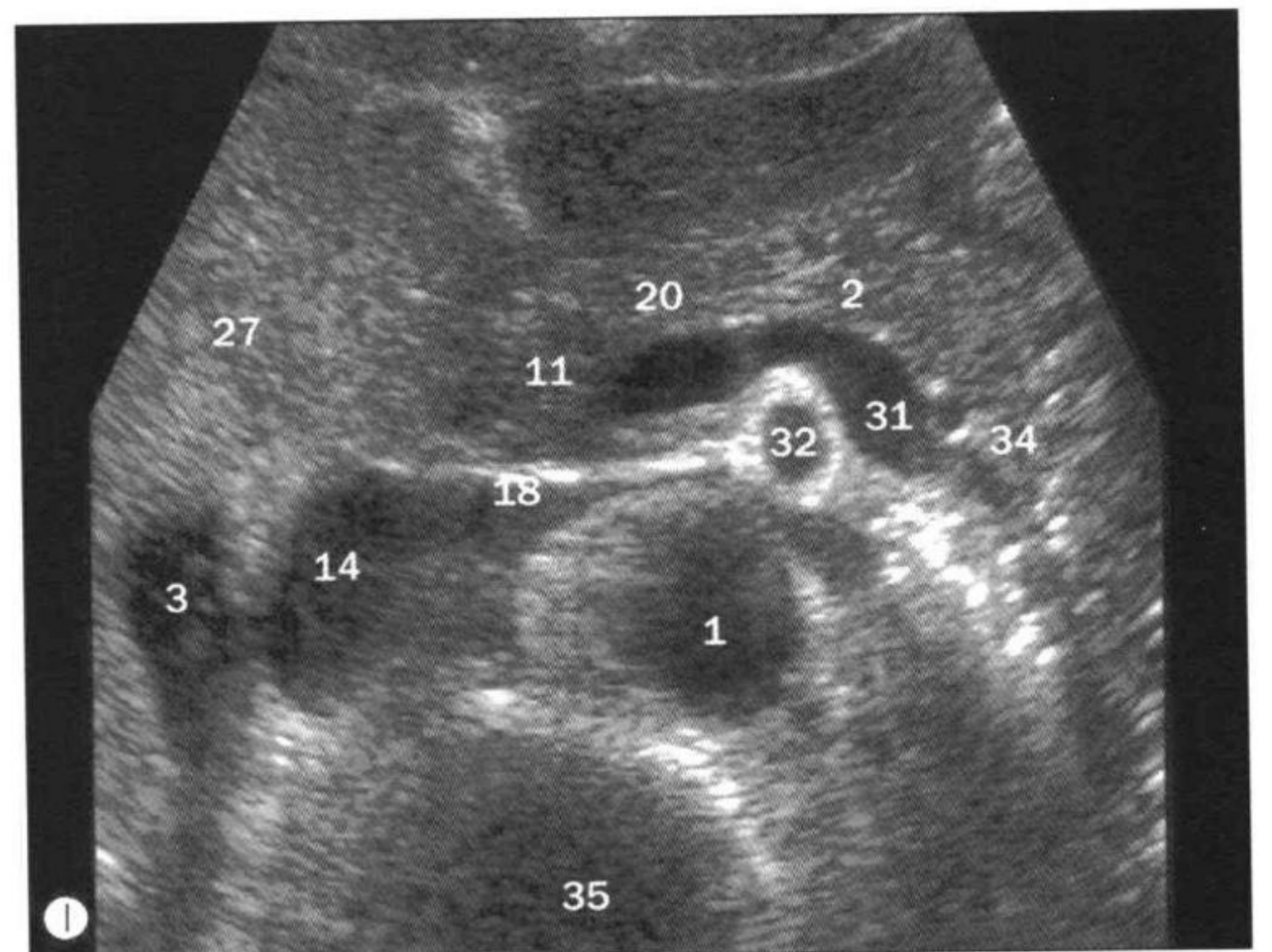
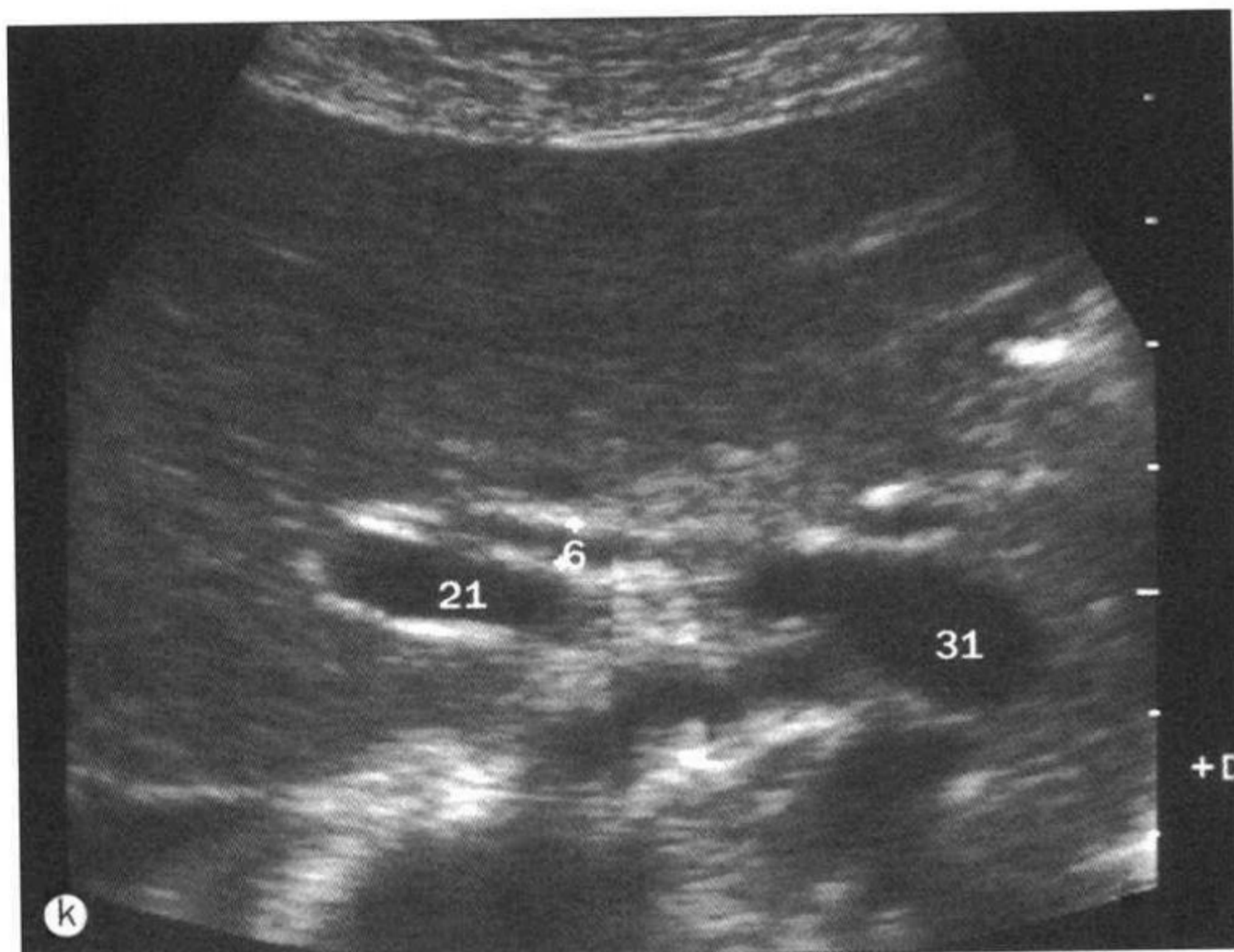
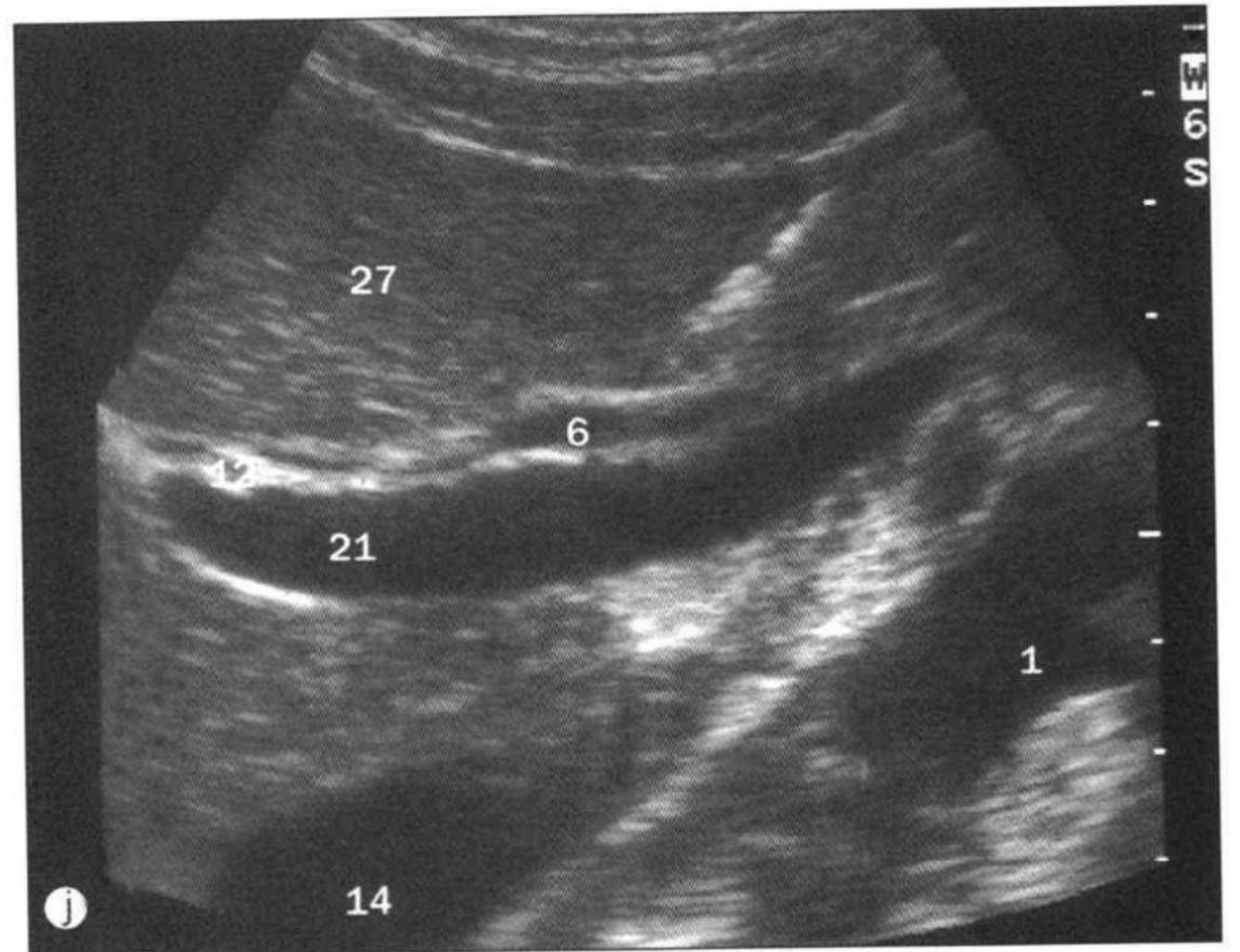
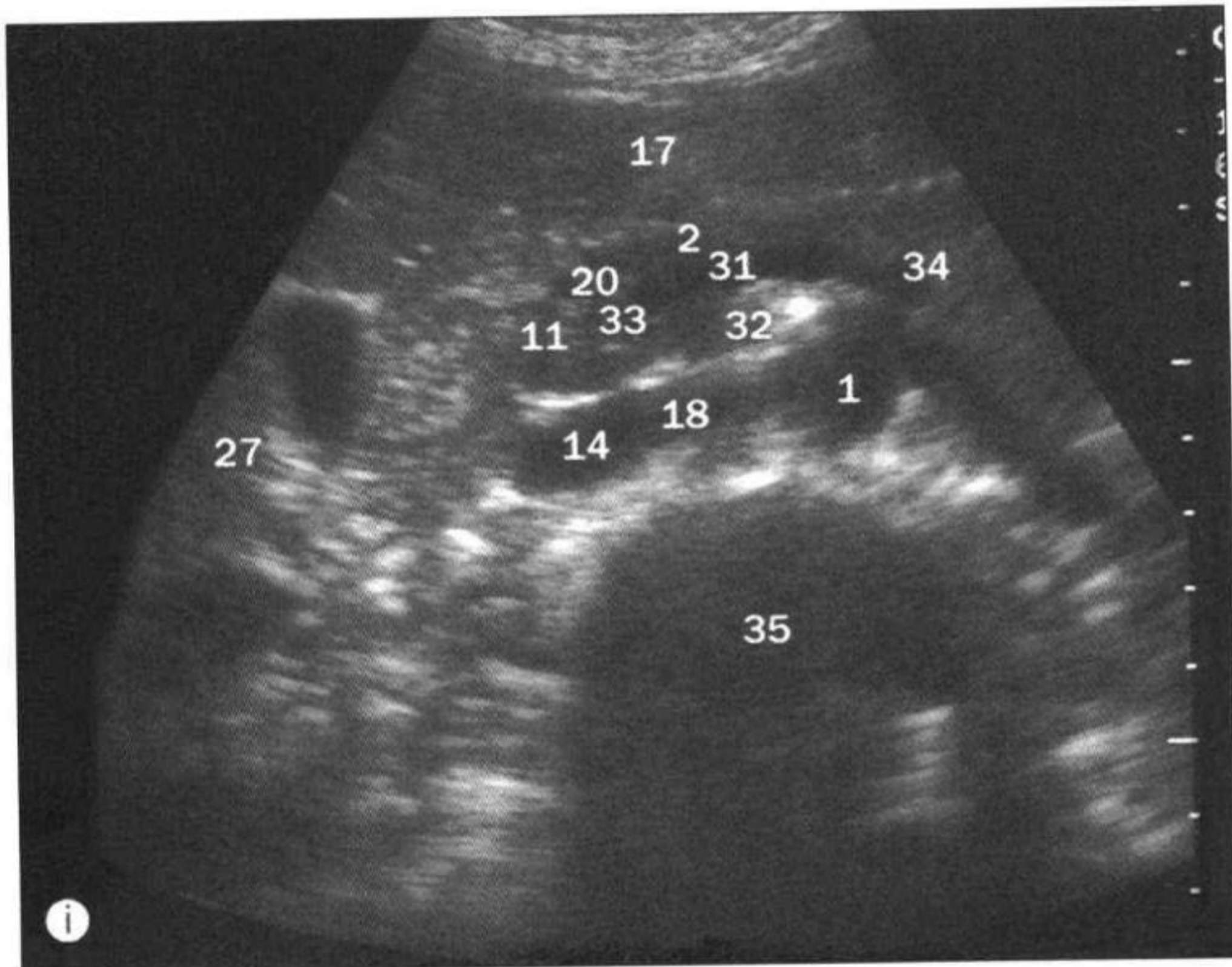
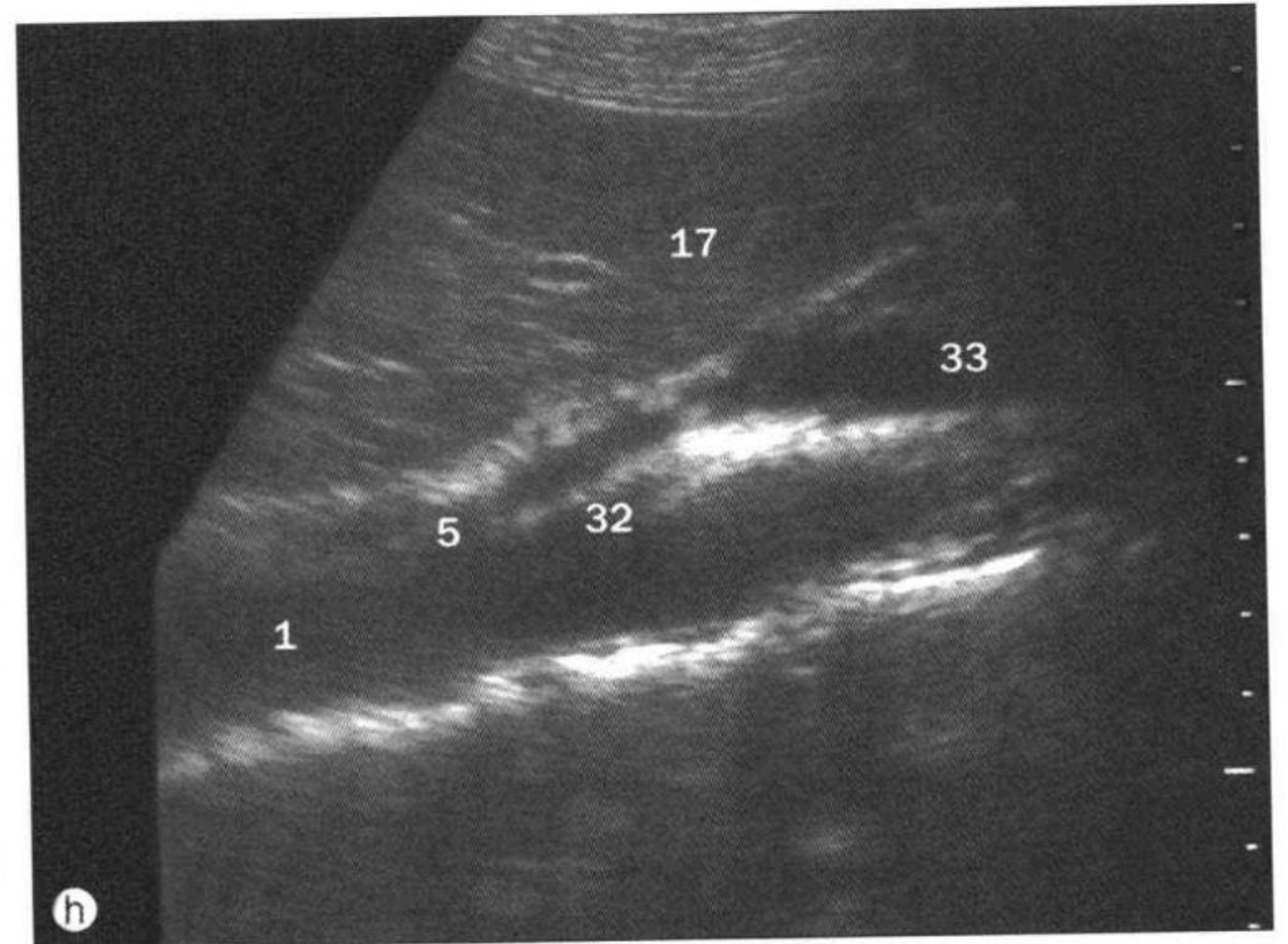
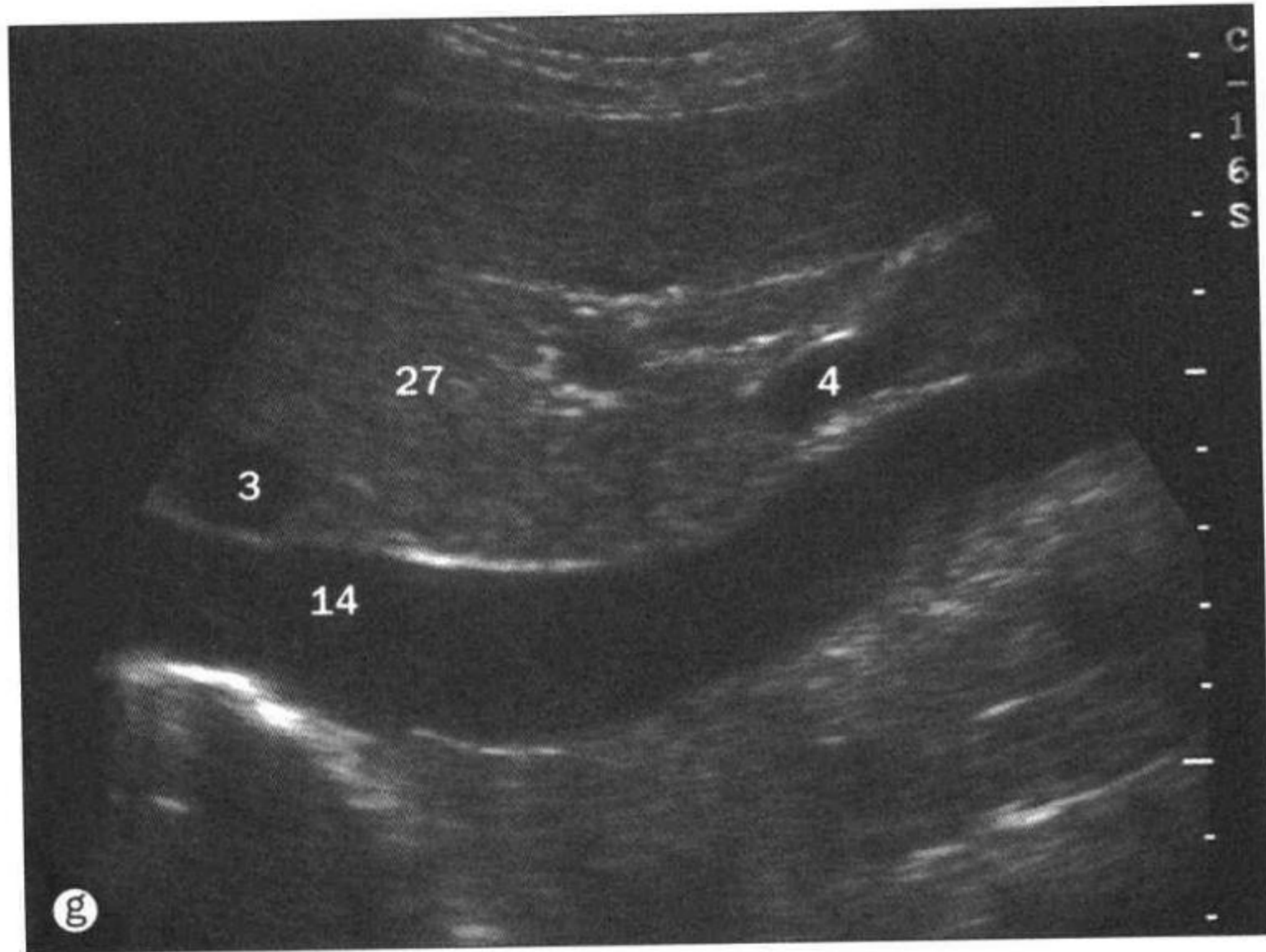
14 下腔静脉 inferior vena cava

15 左膈穹隆 left dome of diaphragm



上页超声影像对应线条示意图。

- | | | |
|-----------------------------|------------------------------|--------------------------------------|
| 16 肝左静脉 left hepatic vein | right dome of diaphragm | 31 脾静脉 splenic vein |
| 17 肝左叶 left lobe of liver | 24 肝右动脉 right hepatic artery | 32 肠系膜上动脉 superior mesenteric artery |
| 18 左肾静脉 left renal vein | 25 肝右静脉 right hepatic vein | 33 肠系膜上静脉 superior mesenteric vein |
| 19 肝中静脉 middle hepatic vein | 26 右肾 right kidney | 34 胰尾 tail of pancreas |
| 20 胰颈 neck of pancreas | 27 肝右叶 right lobe of liver | 35 椎体 vertebral body |
| 21 门静脉 portal vein | 28 右肾动脉 right renal artery | |
| 22 肾乳头 renal papilla | 29 右肾静脉 right renal vein | |
| 23 右膈穹隆 | 30 脾 spleen | |

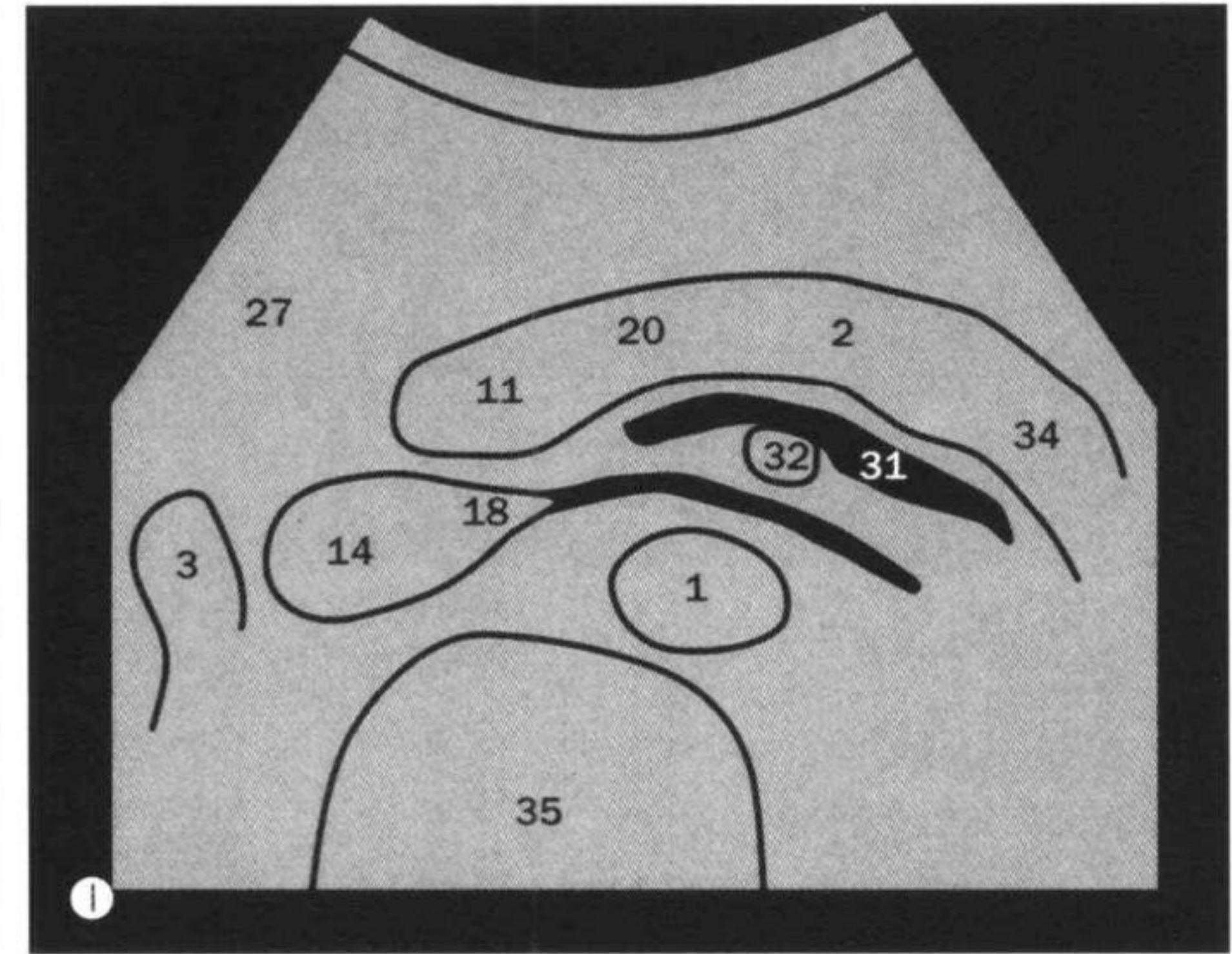
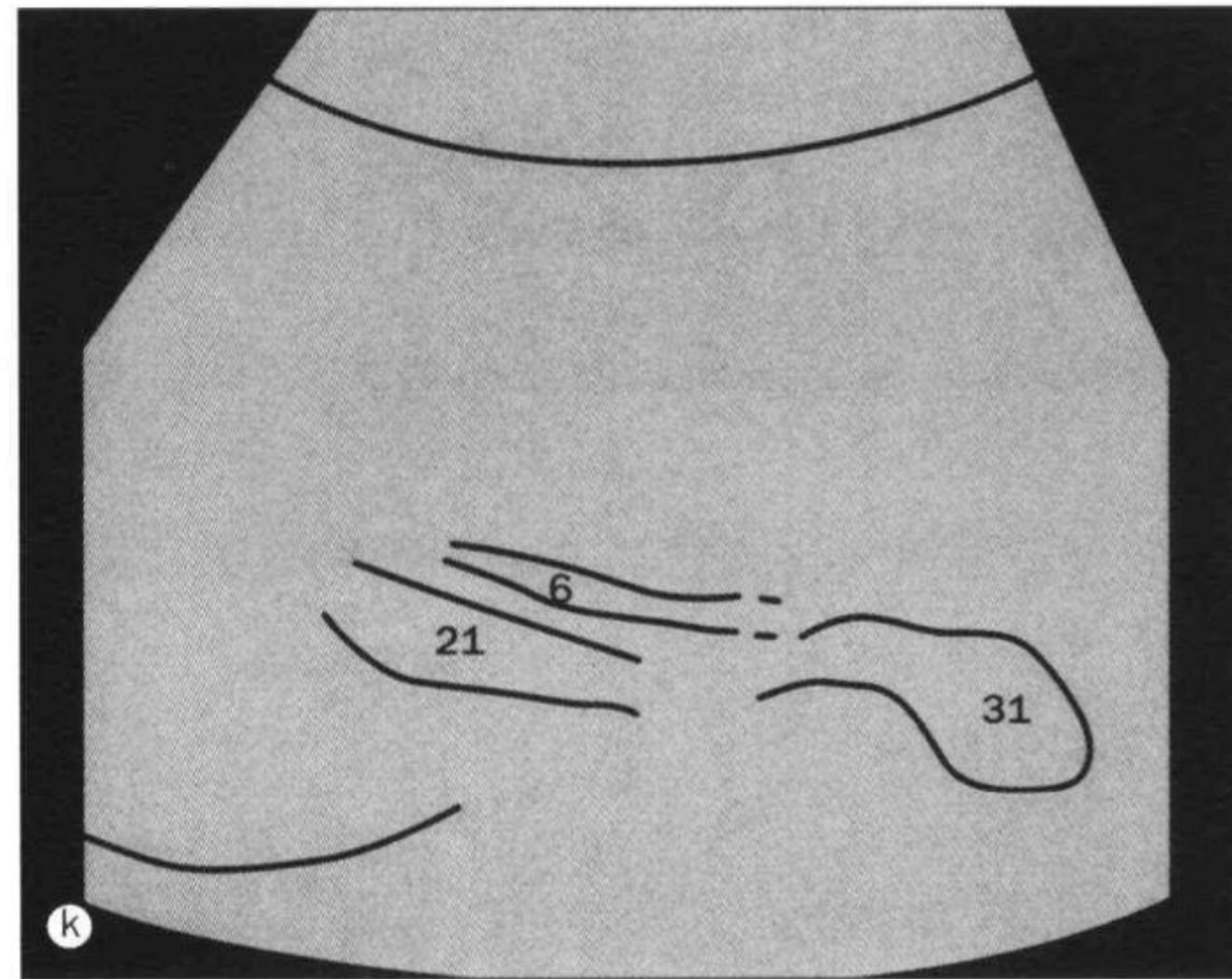
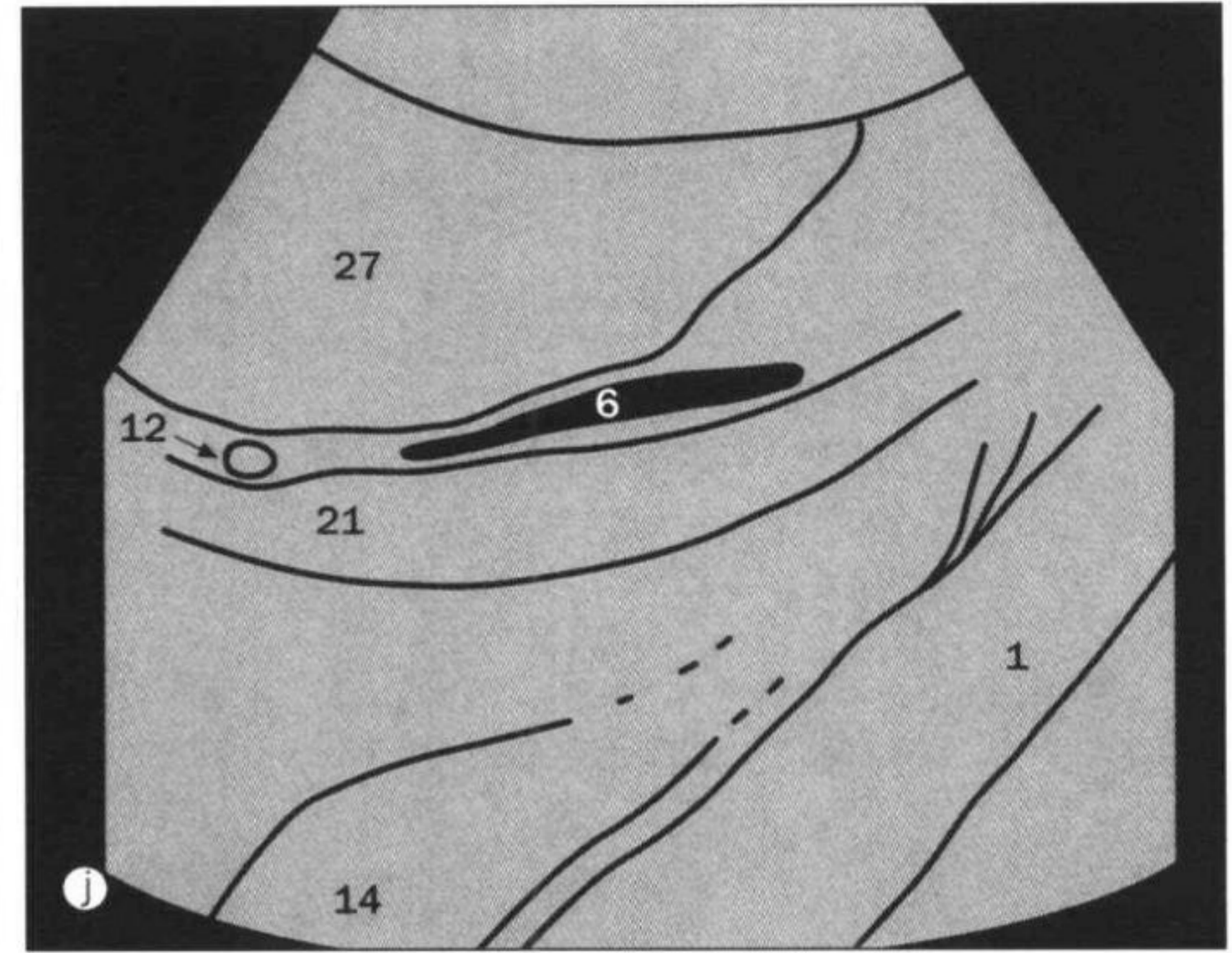
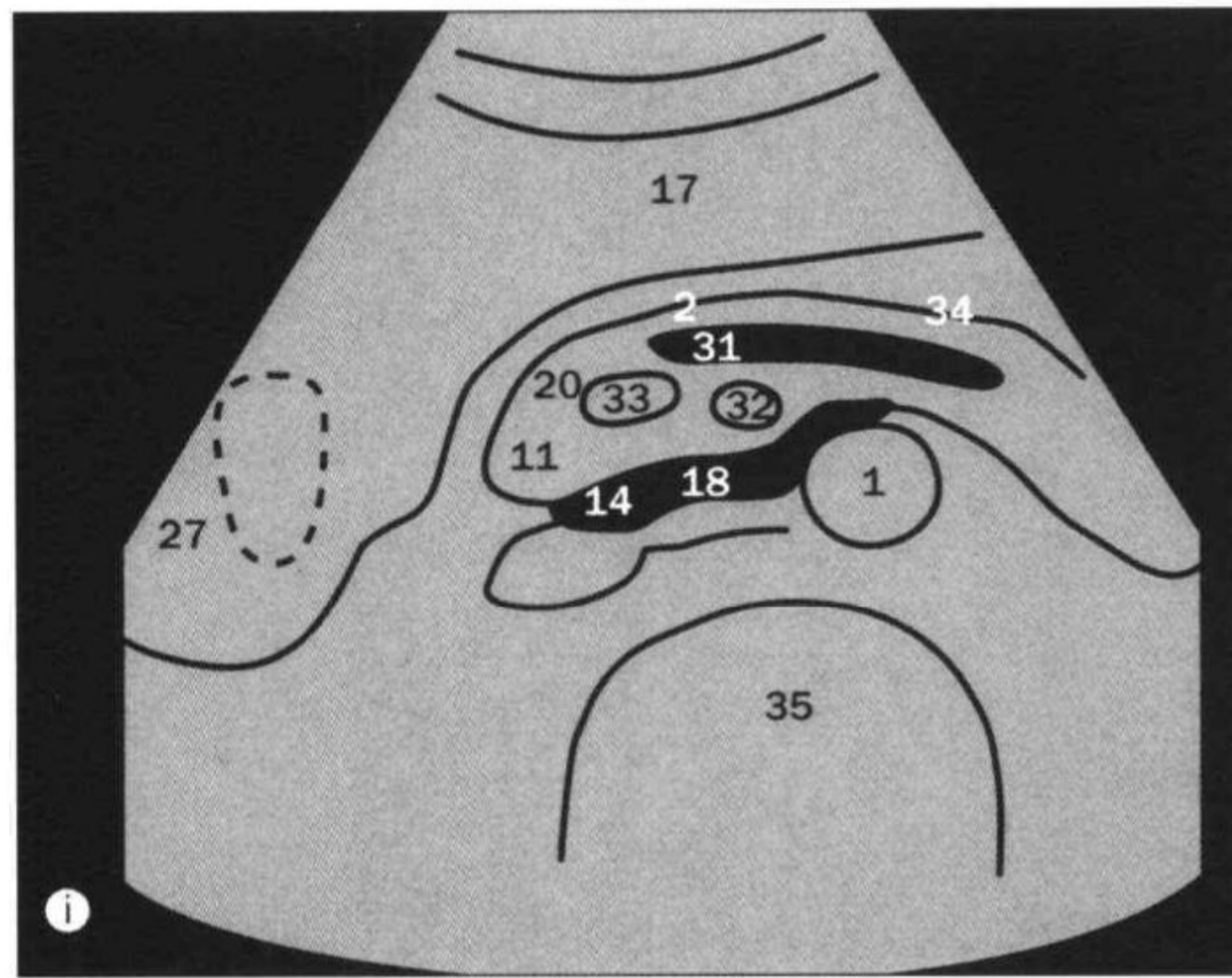
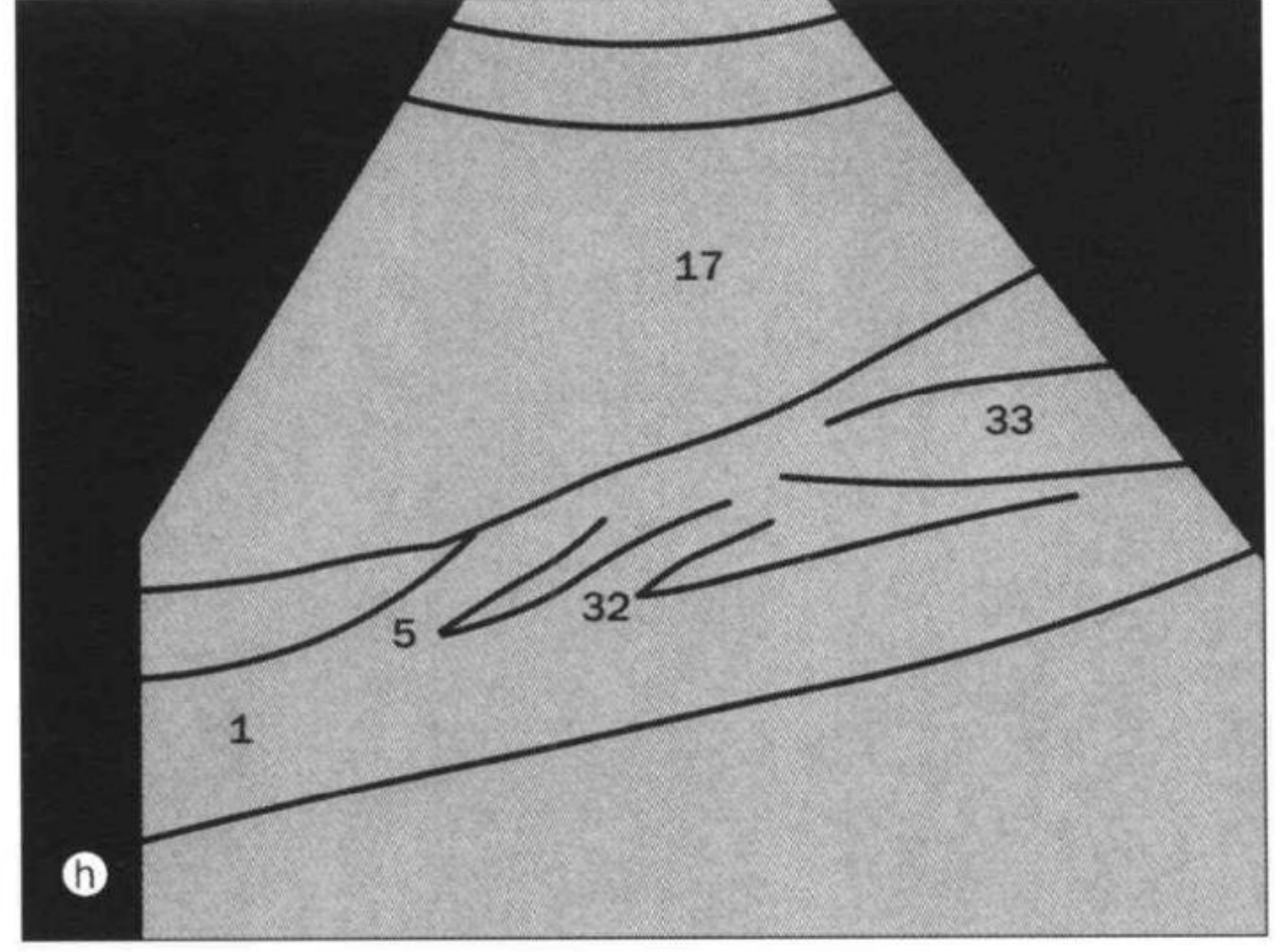
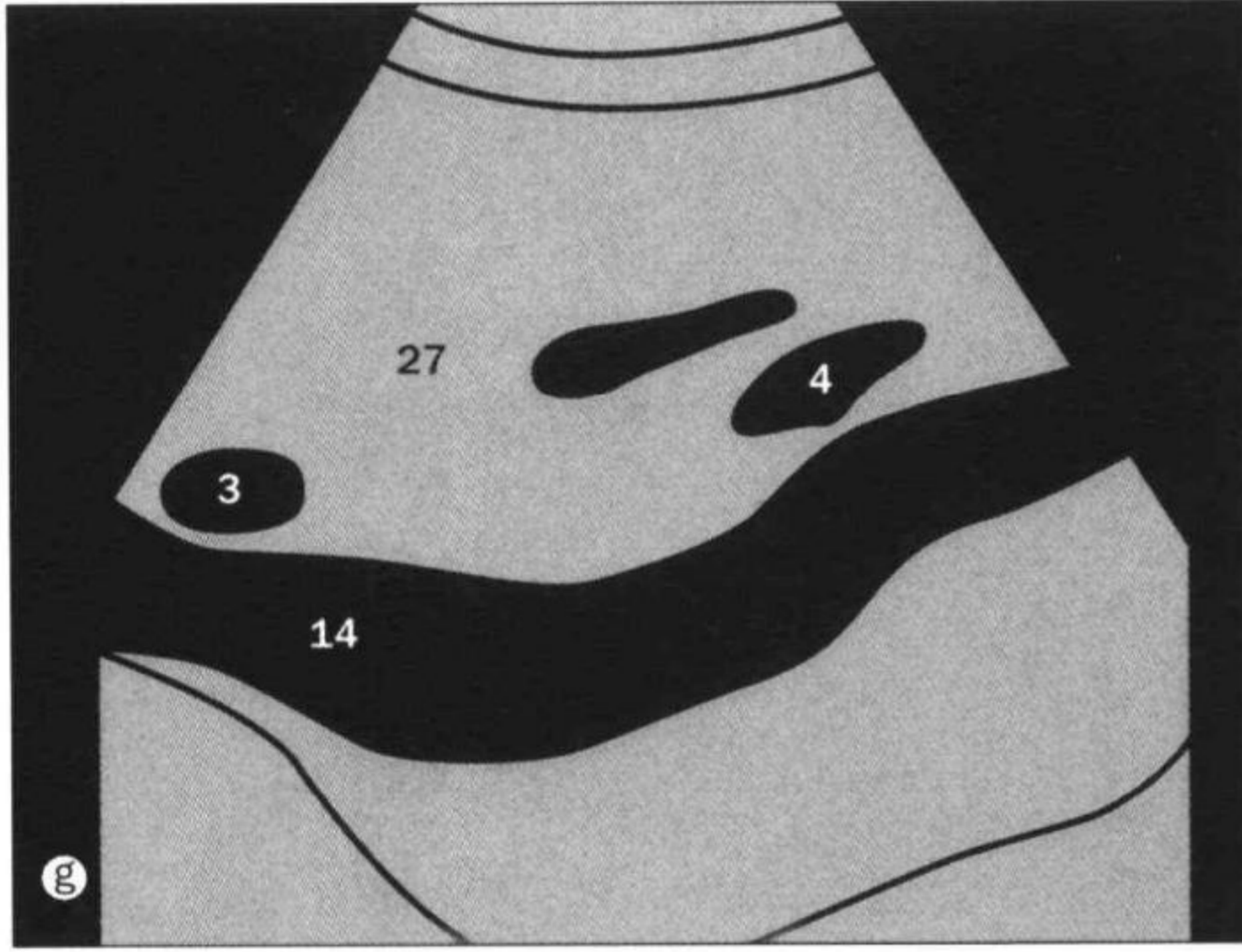


g~l. 腹部, 超声。g~h 为矢状位, i~l 为横切、斜切面。

1 腹主动脉 abdominal aorta
2 胰体 body of pancreas
3 肝静脉分支 branch of hepatic vein
4 门静脉分支 branch of portal vein
5 腹腔干 coeliac trunk

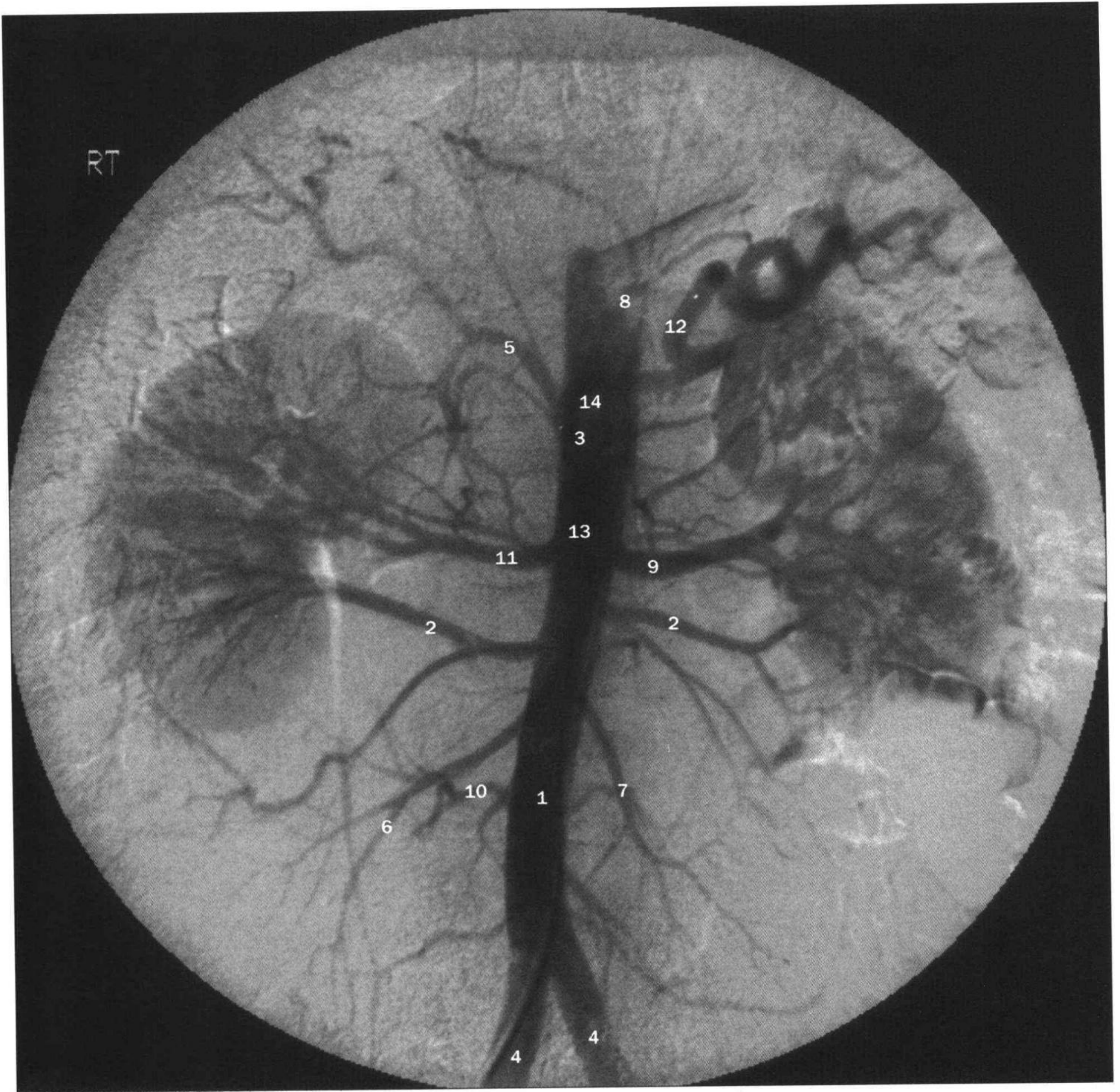
6 胆总管 common bile duct
7 胆管 cystic duct
8 肾窦脂肪 fat in renal sinus
9 胆囊底 fundus of gall bladder
10 胆囊 gall bladder

11 胰头 head of pancreas
12 肝动脉 hepatic artery
13 肝肾隐窝 hepatorenal recess
14 下腔静脉 inferior vena cava
15 左膈穹隆 left dome of diaphragm



上页超声影像对应线条示意图。

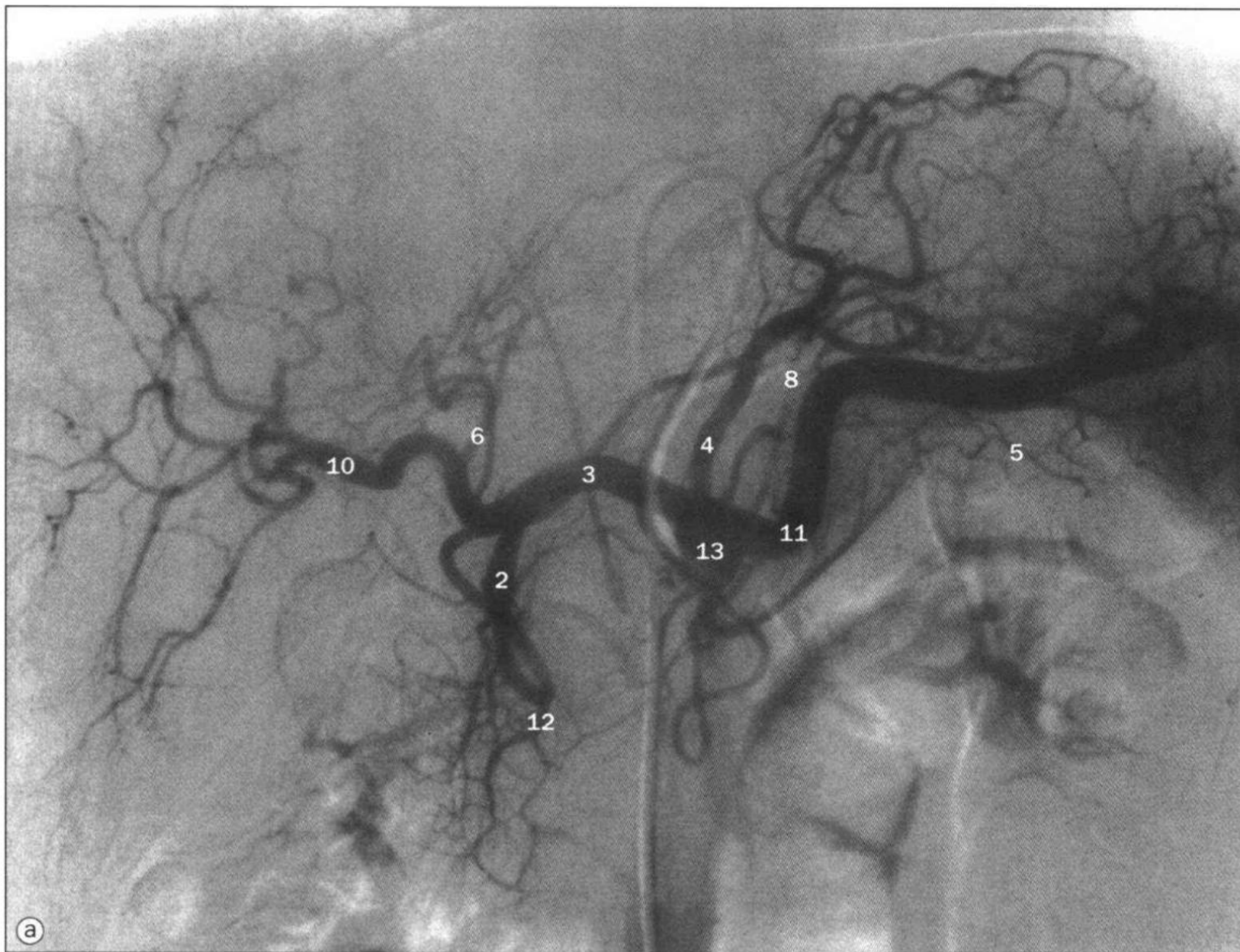
- | | | |
|---------------------------------|------------------------------|--------------------------------------|
| 16 肝左静脉 left hepatic vein | 24 肝右动脉 right hepatic artery | 32 肠系膜上动脉 superior mesenteric artery |
| 17 肝左叶 left lobe of liver | 25 肝右静脉 right hepatic vein | 33 肠系膜上静脉 superior mesenteric vein |
| 18 左肾静脉 left renal vein | 26 右肾 right kidney | 34 胰尾 tail of pancreas |
| 19 肝中静脉 middle hepatic vein | 27 肝右叶 right lobe of liver | 35 椎体 vertebral body |
| 20 胰颈 neck of pancreas | 28 右肾动脉 right renal artery | |
| 21 门静脉 portal vein | 29 右肾静脉 right renal vein | |
| 22 肾乳头 renal papilla | 30 脾 spleen | |
| 23 右膈穹隆 right dome of diaphragm | 31 脾静脉 splenic vein | |



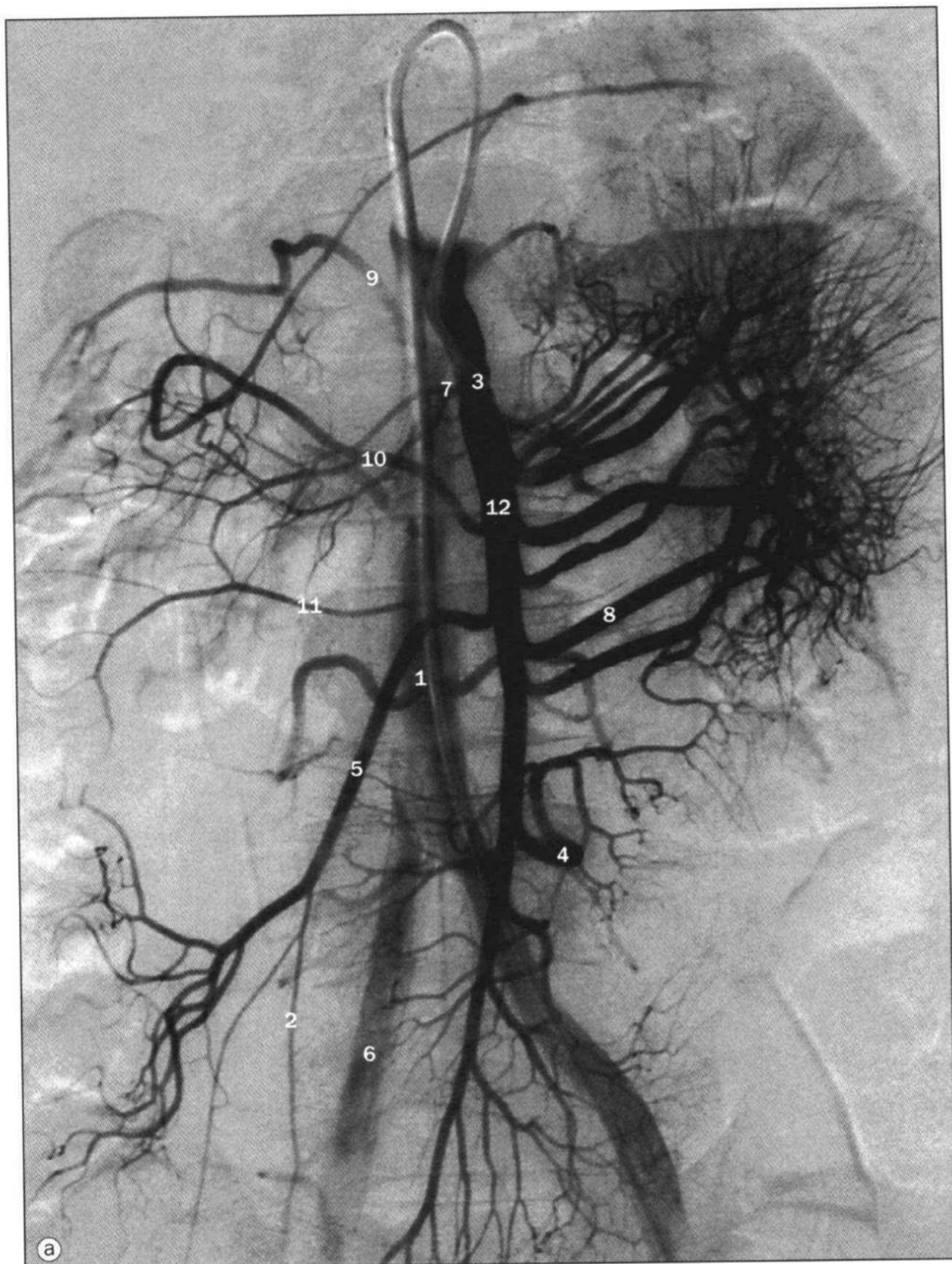
腹主动脉造影。

- 1 腹主动脉 abdominal aorta
- 2 副肾动脉 accessory renal arteries
- 3 腹腔干 coeliac trunk
- 4 髂总动脉 common iliac arteries
- 5 肝动脉 hepatic artery
- 6 回结肠动脉 ileocolic artery
- 7 肠系膜上动脉空肠支 jejunal branches of superior mesenteric artery
- 8 胃左动脉 left gastric artery
- 9 左肾动脉 left renal artery
- 10 腰动脉 lumbar arteries
- 11 右肾动脉 right renal artery
- 12 脾动脉 splenic artery
- 13 肠系膜上动脉 superior mesenteric artery
- 14 腹主动脉内导管头 tip of pigtail catheter in abdominal aorta

a, b. 腹腔干造影减影。

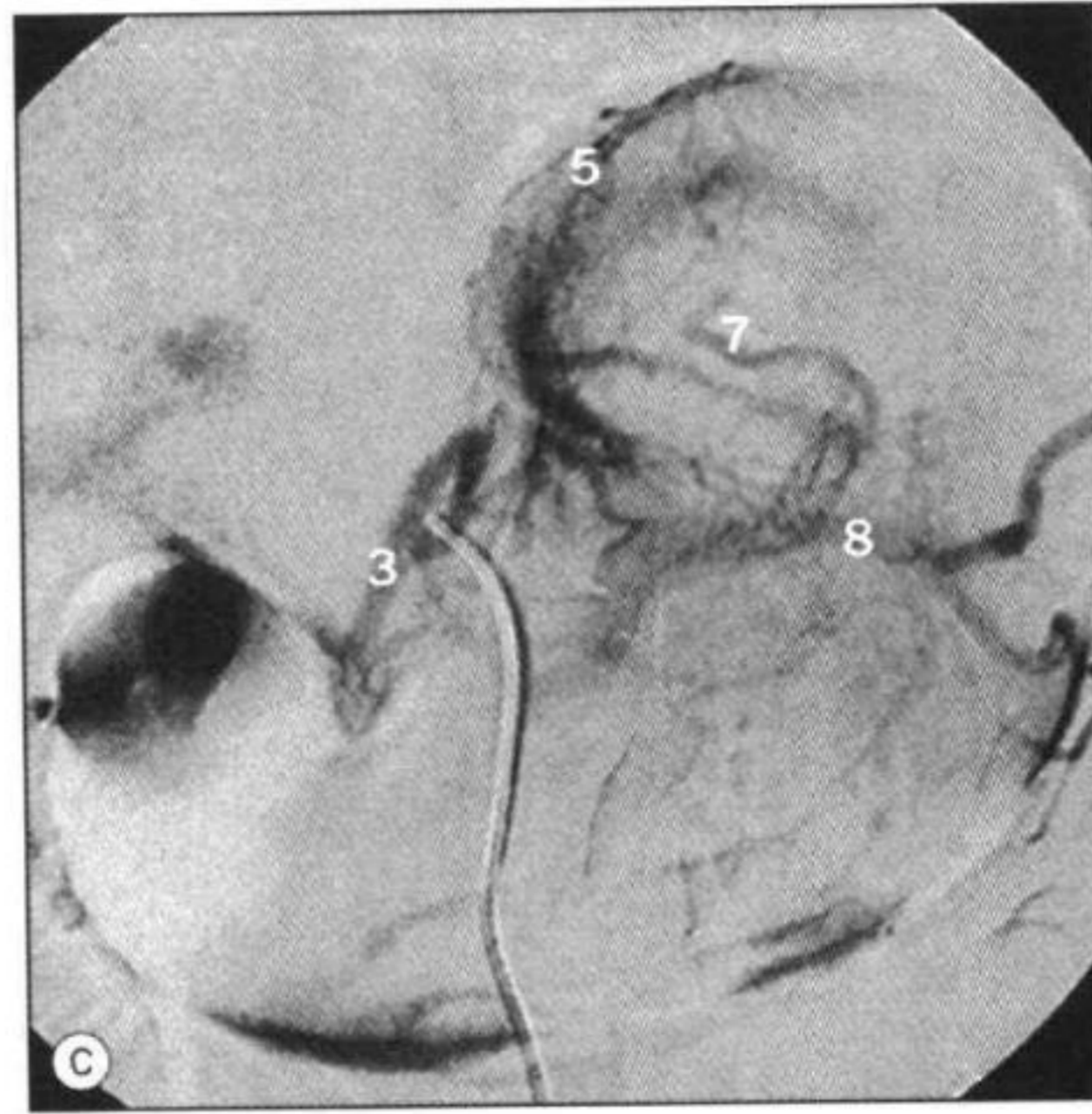
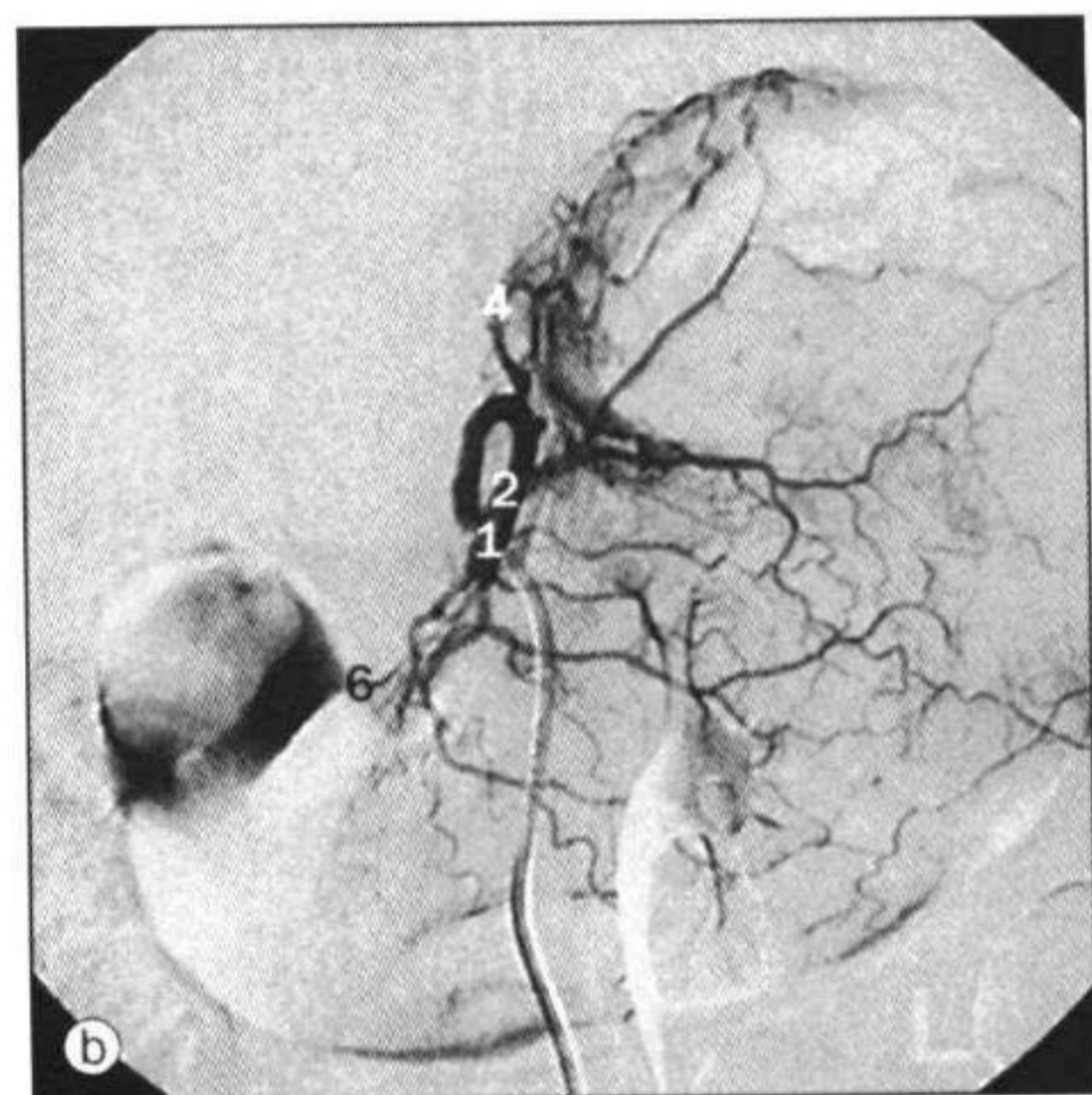


- 1 胰背动脉
dorsal pancreatic artery
- 2 胃十二指肠动脉
gastroduodenal artery
- 3 肝动脉 hepatic artery
- 4 胃左动脉
left gastric artery
- 5 胃网膜左动脉
left gastro-epiploic artery
- 6 肝左动脉
left hepatic artery
- 7 胰大动脉
pancreatica magna artery
- 8 膈动脉 phrenic artery
- 9 胃网膜右动脉
right gastro-epiploic artery
- 10 肝右动脉
right hepatic artery
- 11 脾动脉 splenic artery
- 12 胰十二指肠上动脉 superior
pancreaticoduodenal artery
- 13 腹腔干内导管头 tip of
catheter in coeliac trunk
- 14 胰横动脉
transverse pancreatic artery



a. 肠系膜上动脉造影减影。

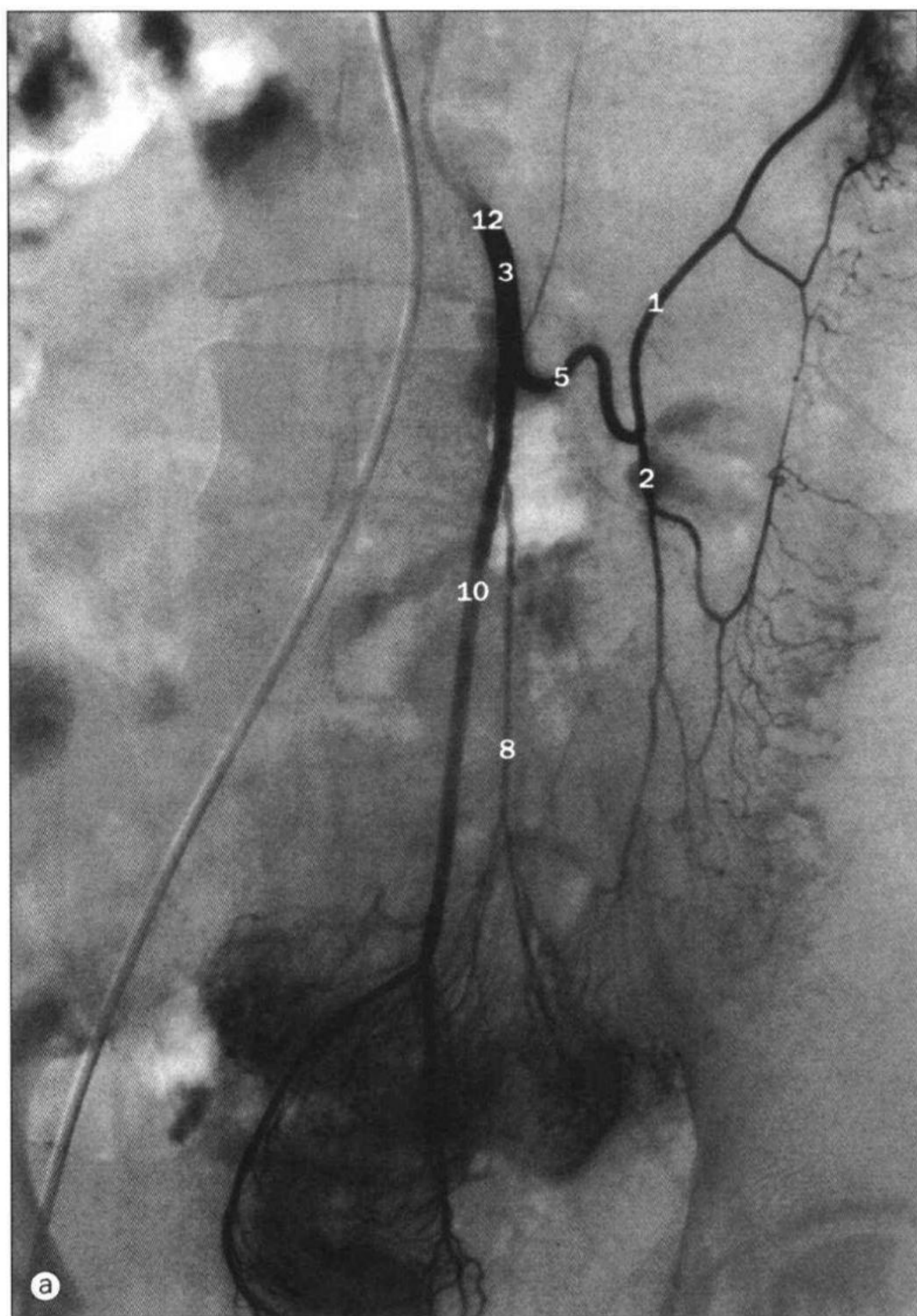
- 1 主动脉 aorta
- 2 阑尾动脉 appendicular artery
- 3 肠系膜上动脉内导管头 catheter with tip selectively in superior mesenteric artery
- 4 肠系膜上动脉回肠支 ileal branches of superior mesenteric artery
- 5 回结肠动脉 ileocolic artery
- 6 髂动脉 iliac artery
- 7 胰十二指肠下动脉 inferior pancreaticoduodenal artery
- 8 肠系膜上动脉空肠支 jejunal branches of superior mesenteric artery
- 9 腹主动脉发出的腰动脉 lumbar arteries arising from abdominal aorta
- 10 中结肠动脉 middle colic artery
- 11 右结肠动脉 right colic artery
- 12 肠系膜上动脉 superior mesenteric artery



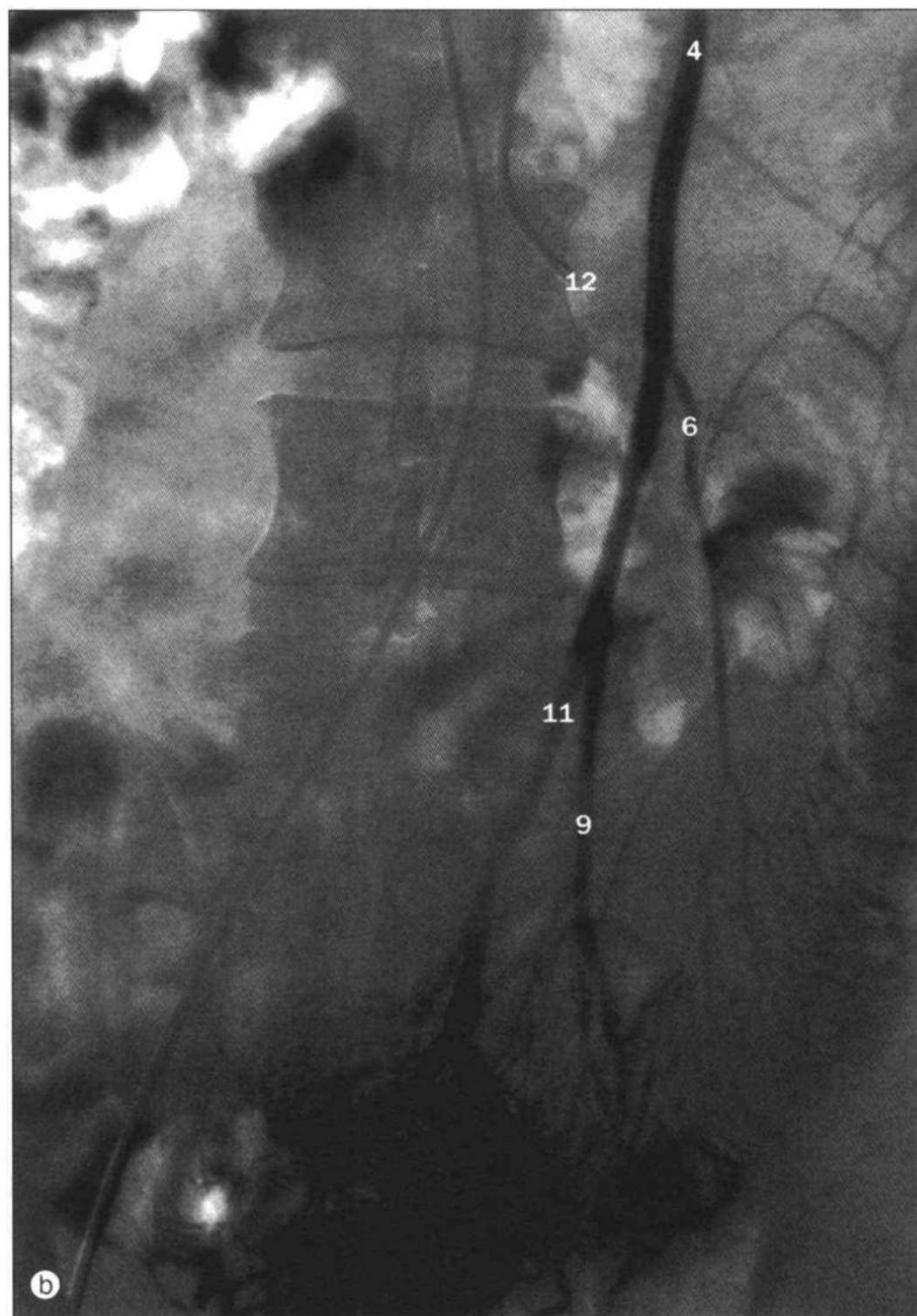
b. 胃动脉。

c. 胃静脉。

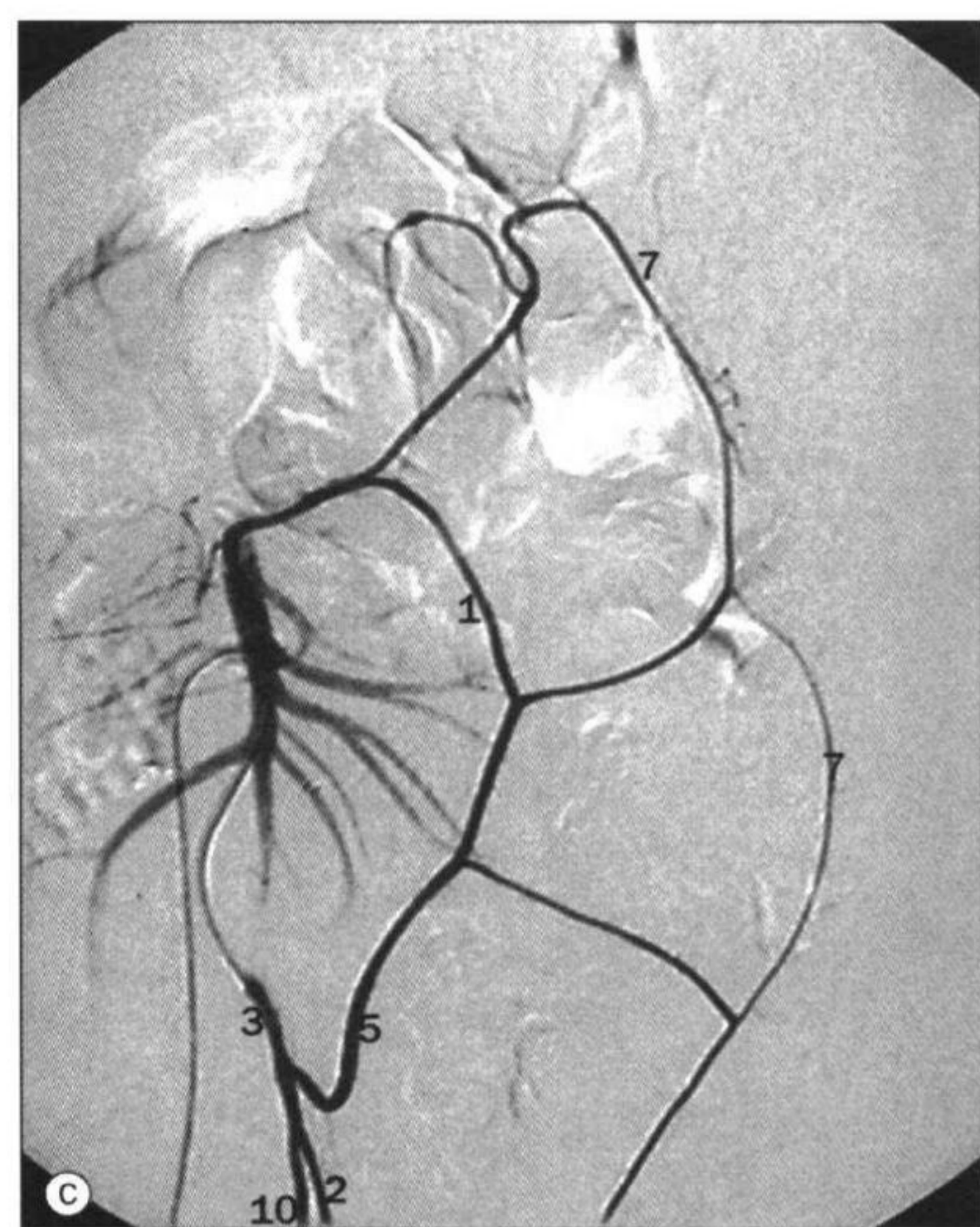
- 1 胃左动脉起点处的导管 catheter in origin of left gastric artery
- 2 胃左动脉 left gastric artery
- 3 胃左静脉 left gastric vein
- 4 胃左动脉食管支 oesophageal branch of left gastric artery
- 5 胃左静脉食管支 oesophageal branches of left gastric vein
- 6 胃右动脉 right gastric artery
- 7 胃短静脉 short gastric veins
- 8 脾静脉 splenic vein



a. 肠系膜下动脉造影减影。

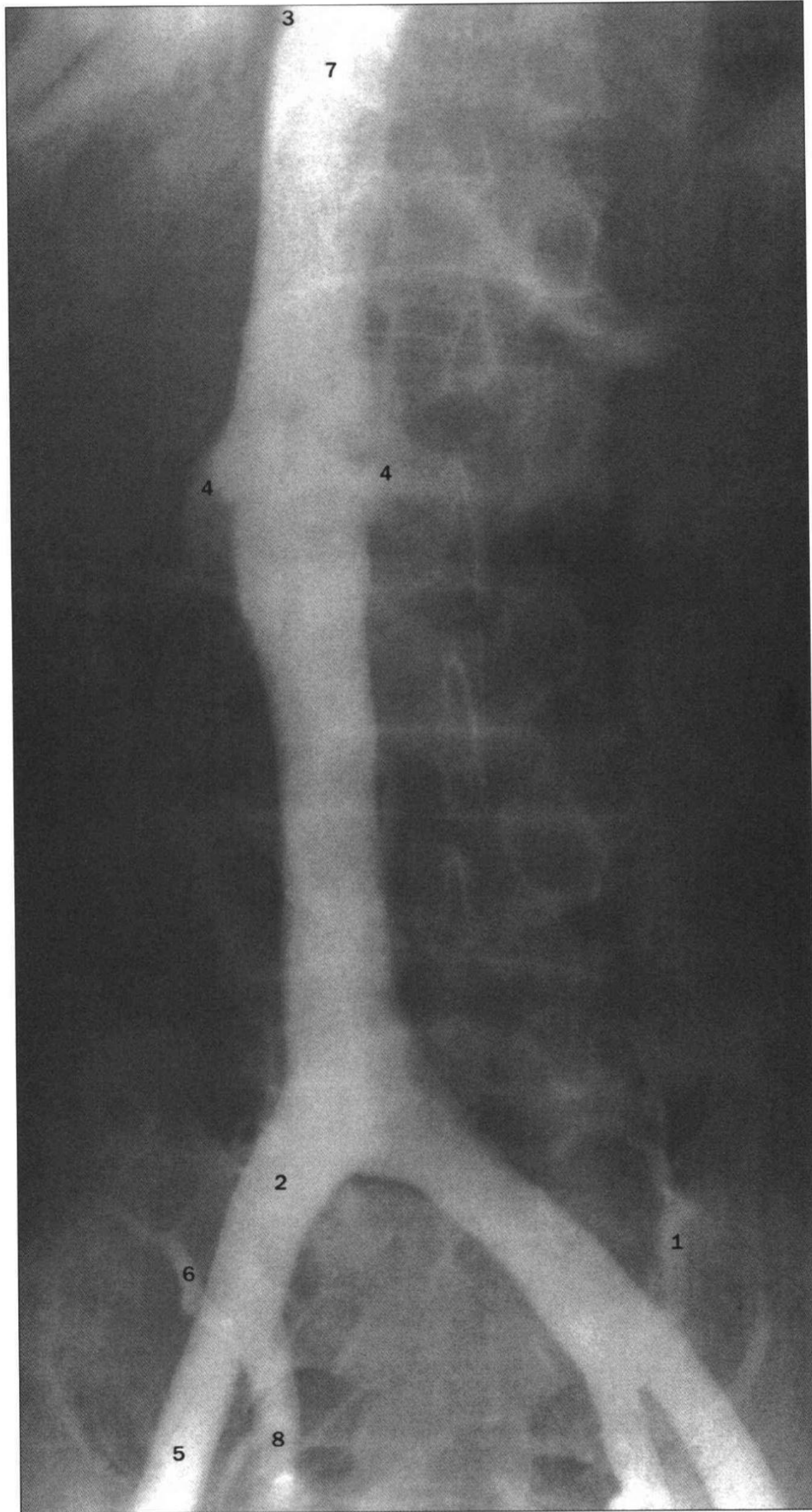


b. 肠系膜下动脉造影减影静脉相。



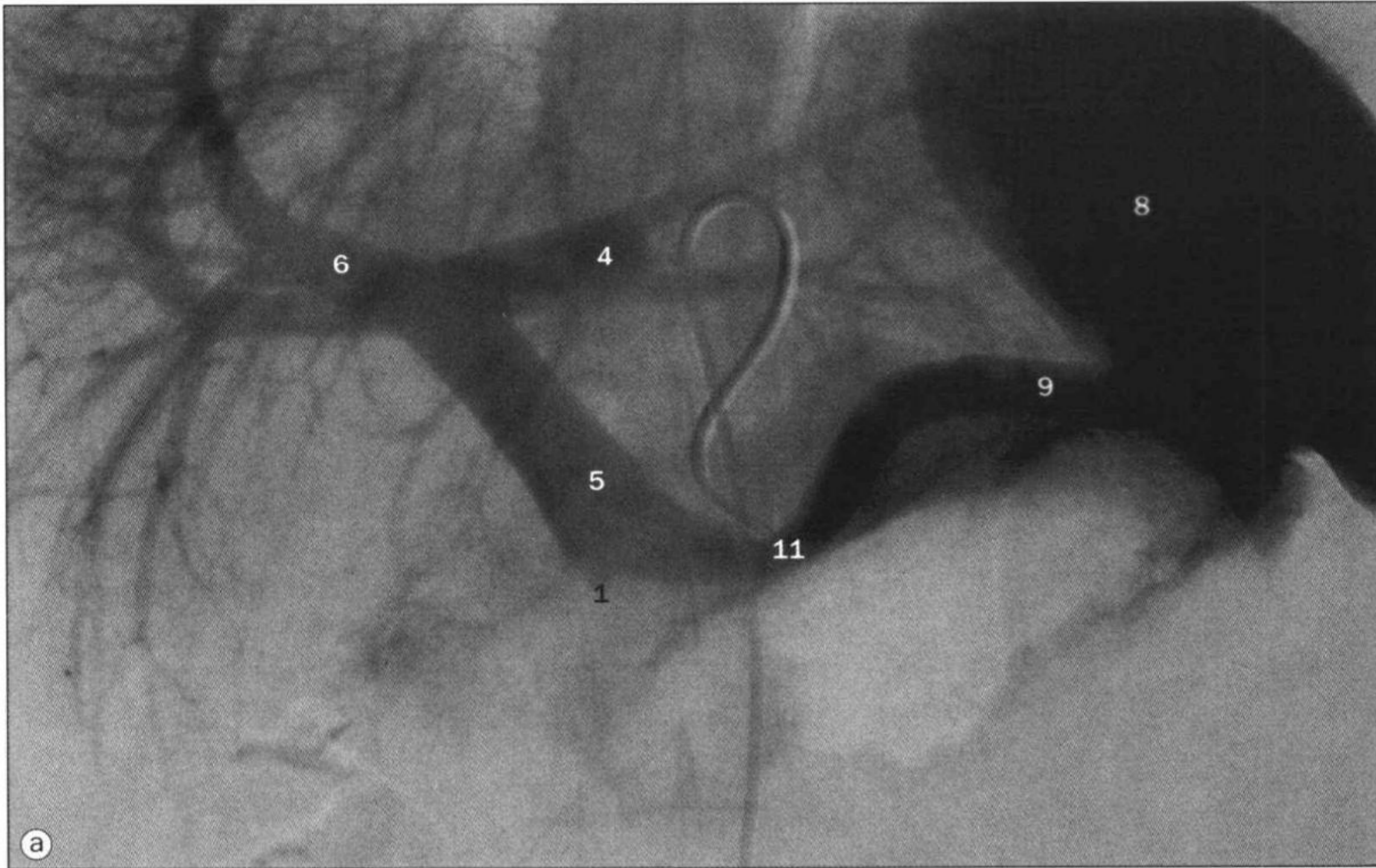
c. 肠系膜下动脉造影。

- 1 左结肠动脉升支 ascending branch of left colic artery
- 2 左结肠动脉降支 descending branch of left colic artery
- 3 肠系膜下动脉 inferior mesenteric artery
- 4 肠系膜下静脉 inferior mesenteric vein
- 5 左结肠动脉 left colic artery
- 6 左结肠静脉 left colic vein
- 7 结肠缘动脉 marginal artery of Drummond
- 8 乙状结肠动脉 sigmoid arteries
- 9 乙状结肠静脉 sigmoid vein
- 10 直肠上动脉 superior rectal artery
- 11 直肠上静脉 superior rectal vein
- 12 肠系膜下动脉内导管头
tip of catheter in inferior mesenteric artery



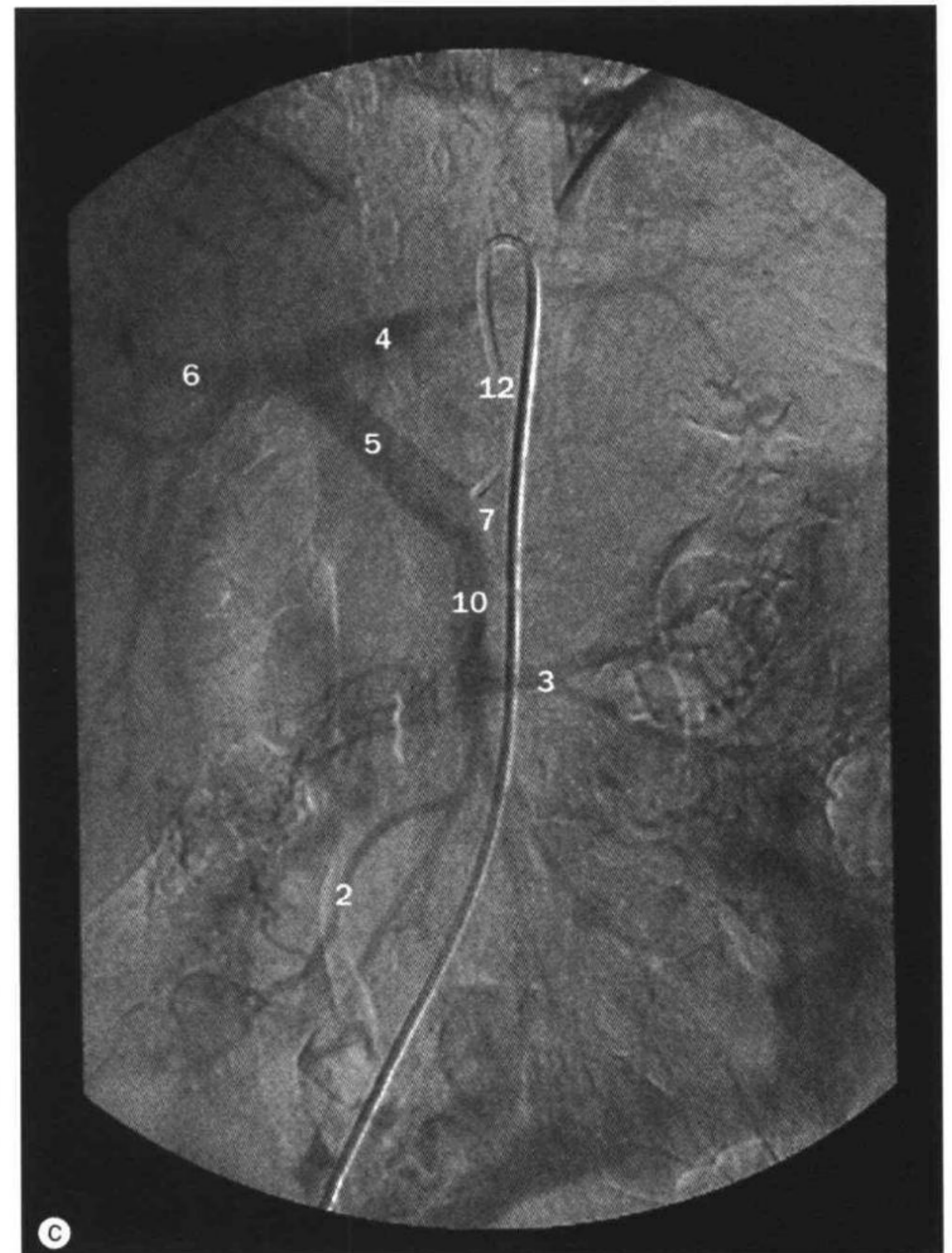
下腔静脉造影。

- | | | |
|---|-------|---------------------------|
| 1 | 腰升静脉 | ascending lumbar vein |
| 2 | 髂总静脉 | common iliac vein |
| 3 | 肝静脉入口 | entrance of hepatic veins |
| 4 | 肾静脉入口 | entrance of renal veins |
| 5 | 髂外静脉 | external iliac vein |
| 6 | 髂腰静脉 | iliolumbar vein |
| 7 | 下腔静脉 | inferior vena cava |
| 8 | 髂内静脉 | internal iliac vein |

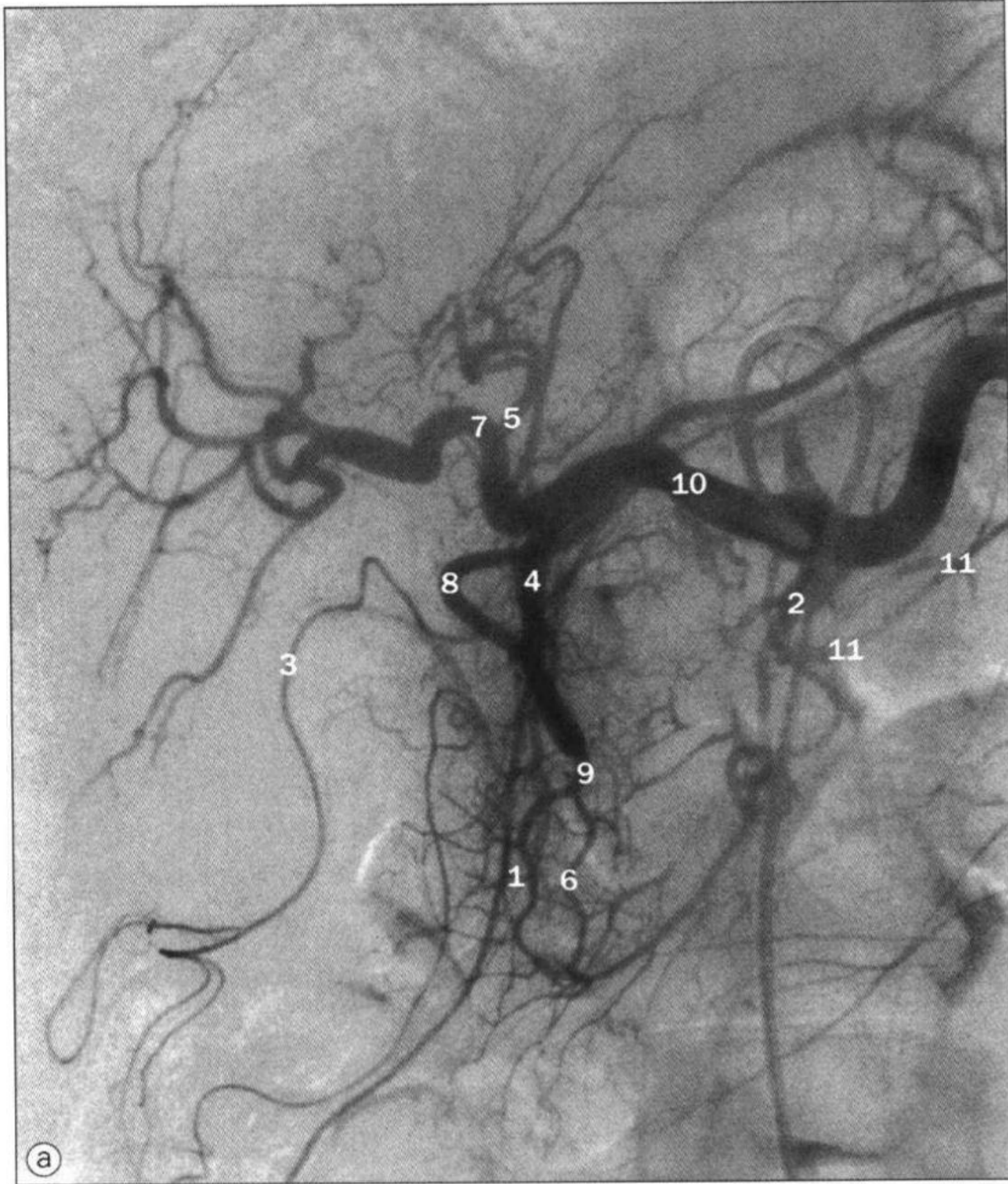


a. 间接脾门静脉造影。
b,c. 肠系膜上动脉造影静脉相。

- 1 肠系膜上静脉入口
entry of superior mesenteric vein
- 2 回结肠静脉
ileocolic vein
- 3 空肠静脉 jejunal vein
- 4 门静脉左支 left branch of portal vein
- 5 门静脉 portal vein
- 6 门静脉右支 right branch of portal vein
- 7 脾静脉入口 site of entry of splenic vein
- 8 脾 spleen
- 9 脾静脉 splenic vein

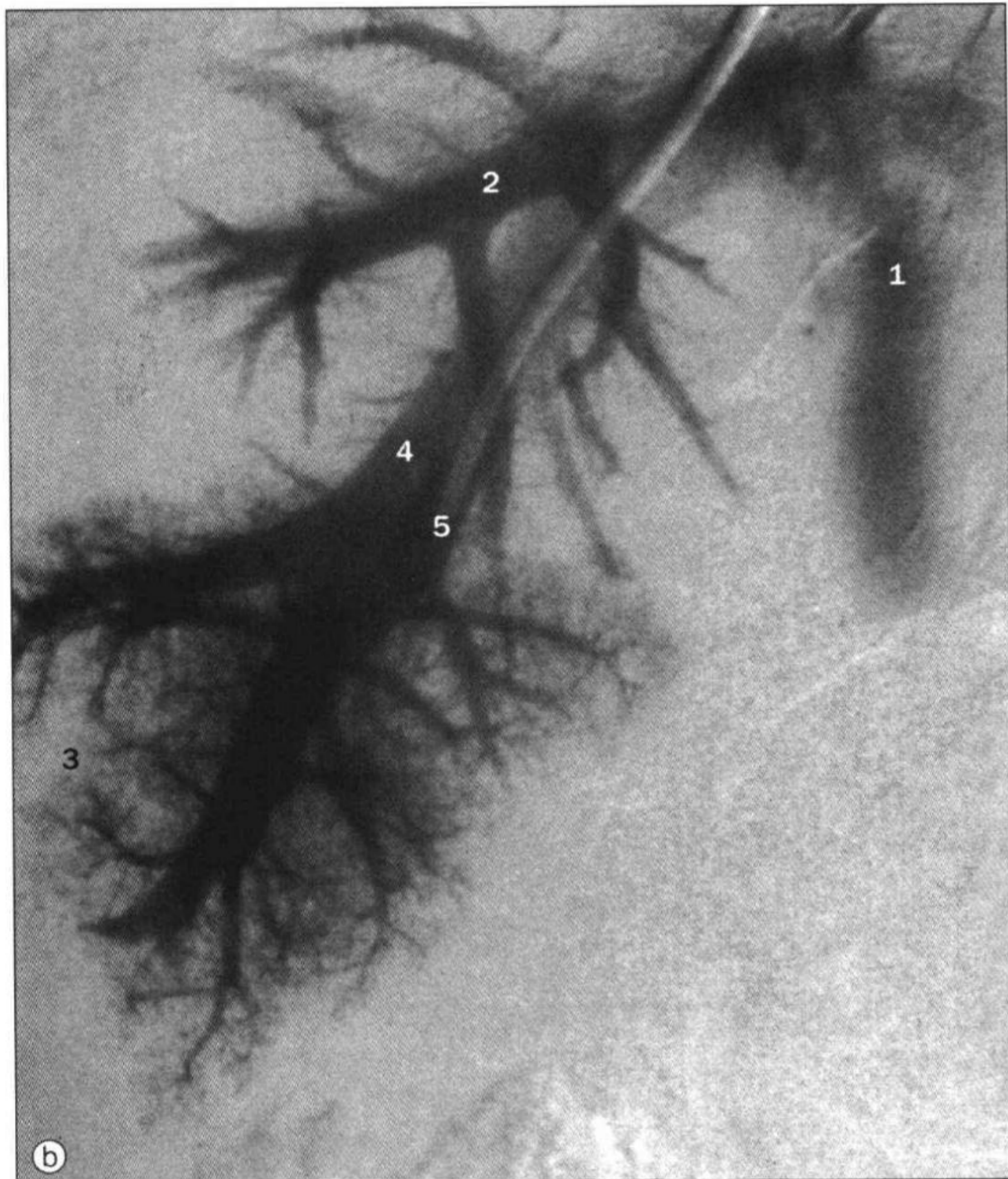


- 10 肠系膜上静脉 superior mesenteric vein
- 11 脾动脉内导管头
tip of catheter in splenic artery
- 12 肠系膜上动脉内导管头
tip of catheter in superior mesenteric artery



a. 肝动脉造影减影。

- 1 胰十二指肠上动脉前支
anterior branch of superior pancreaticoduodenal artery
- 2 背侧胰动脉 dorsal pancreatic artery
- 3 网膜动脉 epiploic arteries
- 4 胃十二指肠动脉 gastroduodenal artery
- 5 肝动脉左支 left branch of hepatic artery
- 6 胰十二指肠上动脉后支
posterior branch of superior pancreaticoduodenal artery
- 7 肝动脉右支 right branch of hepatic artery
- 8 胃网膜右动脉 right gastro-epiploic artery
- 9 胰十二指肠上动脉 superior pancreaticoduodenal artery
- 10 肝动脉内导管头 tip of catheter in hepatic artery
- 11 胰横动脉 transverse pancreatic artery

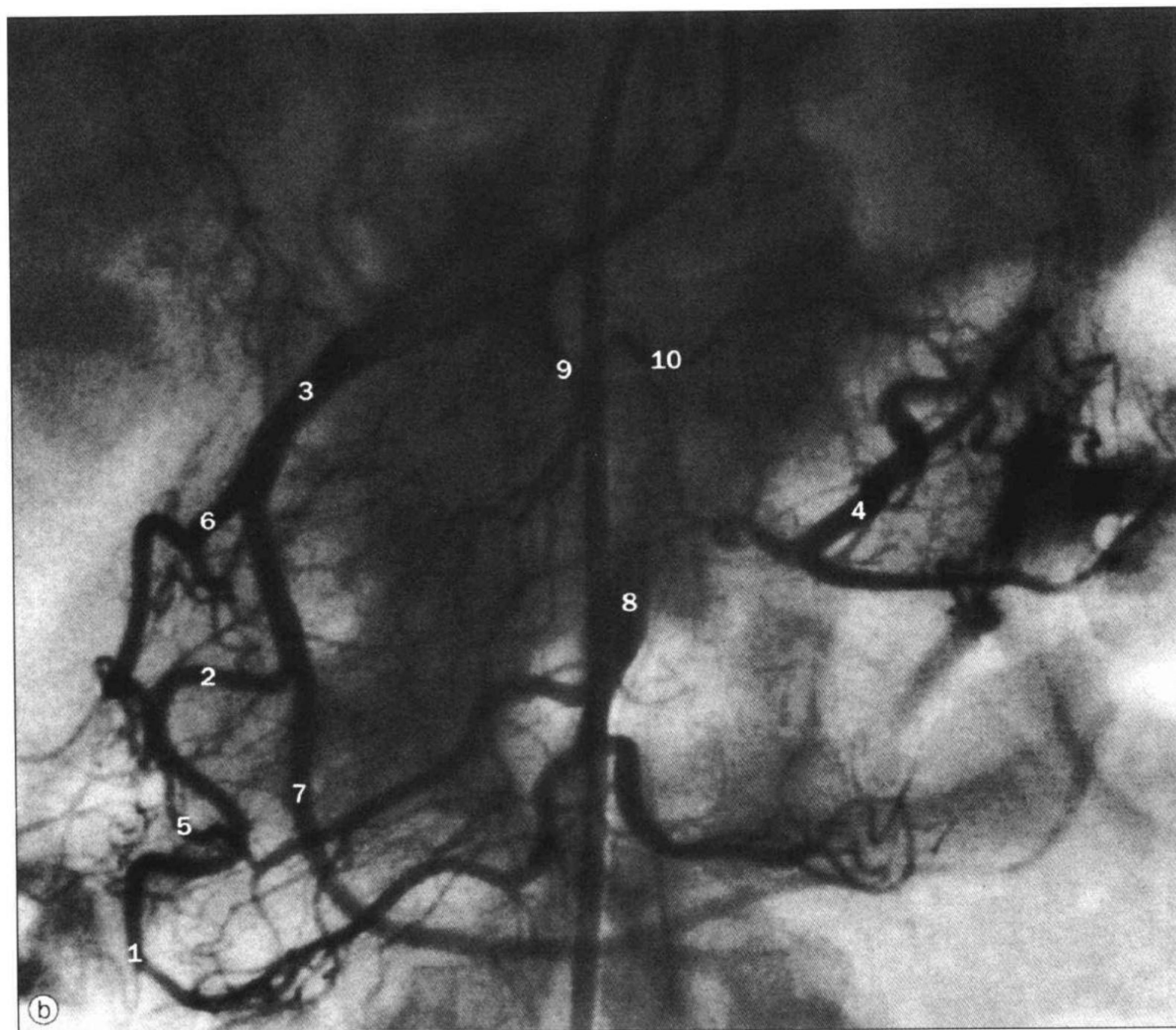


b. 肝静脉造影减影。

- 1 下腔静脉 inferior vena cava
- 2 肝中静脉 middle hepatic vein
- 3 肝实质 parenchyma of liver
- 4 肝右静脉 right hepatic vein
- 5 肝静脉内导管头
tip of catheter in hepatic vein

- a. 选择性胃十二指肠动脉造影。
- b. 胰腺动脉造影减影。

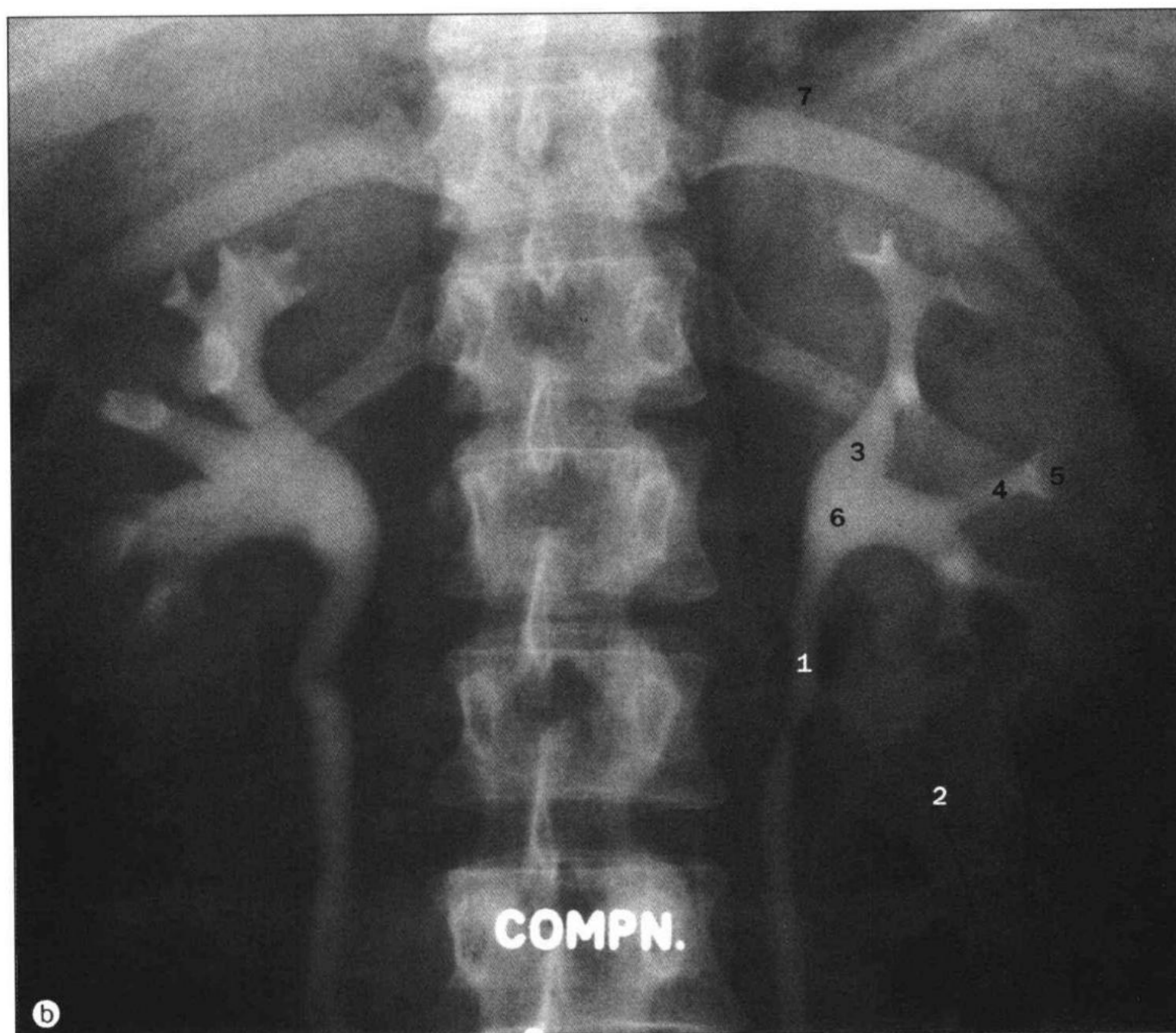
- 1 胰十二指肠下动脉前支 anterior branch of inferior pancreaticoduodenal artery
- 2 胰十二指肠上动脉前支 anterior branch of superior pancreaticoduodenal artery
- 3 胃十二指肠动脉 gastroduodenal artery
- 4 胃网膜左动脉 left gastro-epiploic artery
- 5 胰十二指肠下动脉后支 posterior branch of inferior pancreaticoduodenal artery
- 6 胰十二指肠上动脉后支 posterior branch of superior pancreaticoduodenal artery
- 7 胃网膜右动脉 right gastro-epiploic artery
- 8 肠系膜上动脉 superior mesenteric artery
- 9 胰背动脉内导管头 tip of catheter in dorsal pancreatic artery
- 10 胰横动脉 transverse pancreatic artery





a. 排泄性尿路造影肾脏显影相。

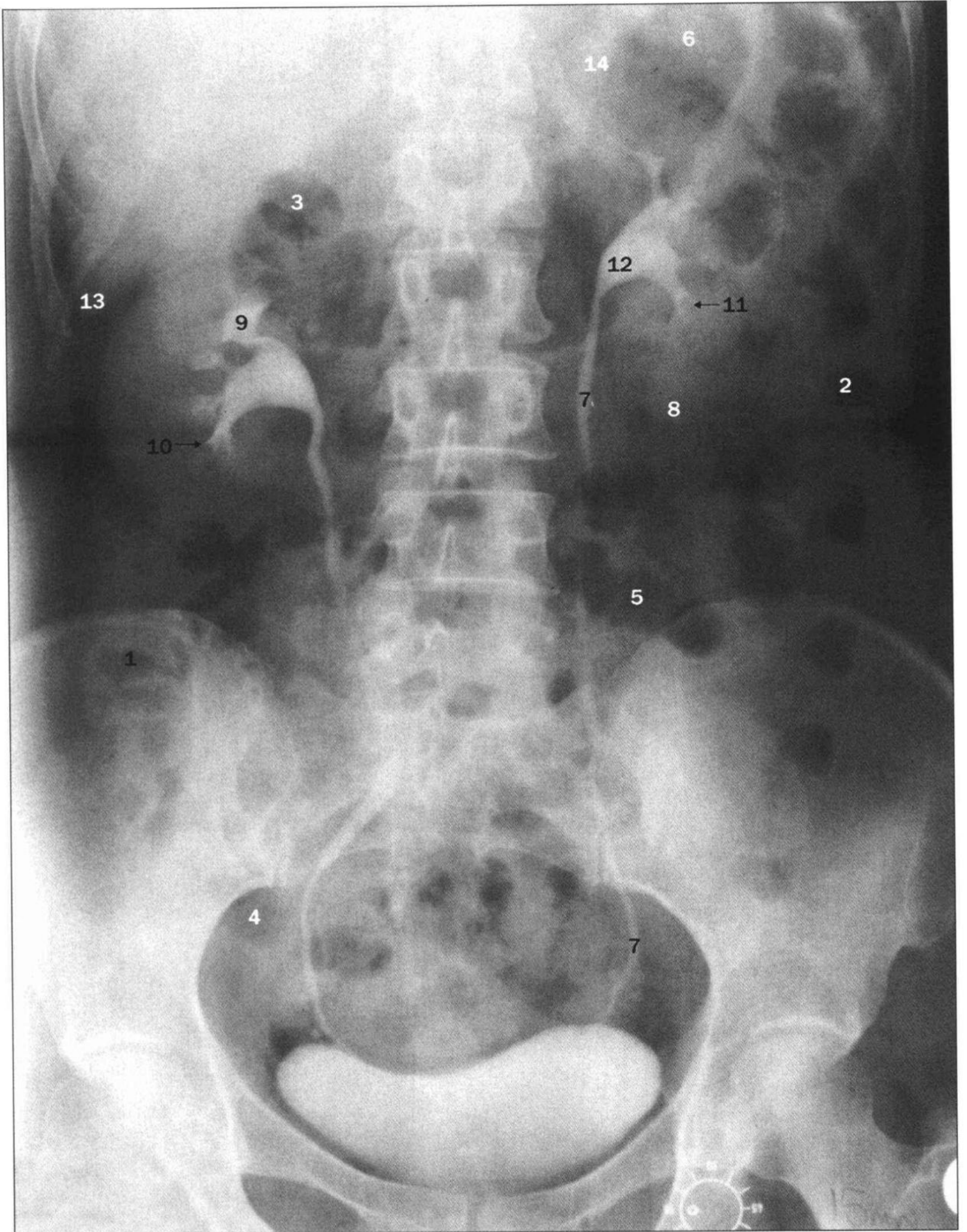
- 1 胃内气体 gas in stomach
- 2 横结肠内气体 gas in transverse colon
- 3 右肾外侧边界 lateral border of right kidney
- 4 左肾外侧边界 lateral margin of left kidney
- 5 左侧腰大肌 left psoas muscle
- 6 左肾下极 lower pole of left kidney
- 7 右肾下极 lower pole of right kidney
- 8 右腰大肌 right psoas muscle
- 9 左肾上极 upper pole of left kidney
- 10 右肾上极 upper pole of right kidney



b. 排泄性尿路造影肾盂显影相。

- 1 左输尿管 left ureter
- 2 左肾下极 lower pole of left kidney
- 3 肾大盏 major calyx
- 4 肾小盏 minor calyx
- 5 肾乳头 renal papilla
- 6 肾盂 renal pelvis
- 7 左肾上极 upper pole of left kidney

静脉尿路造影 15 分钟相。

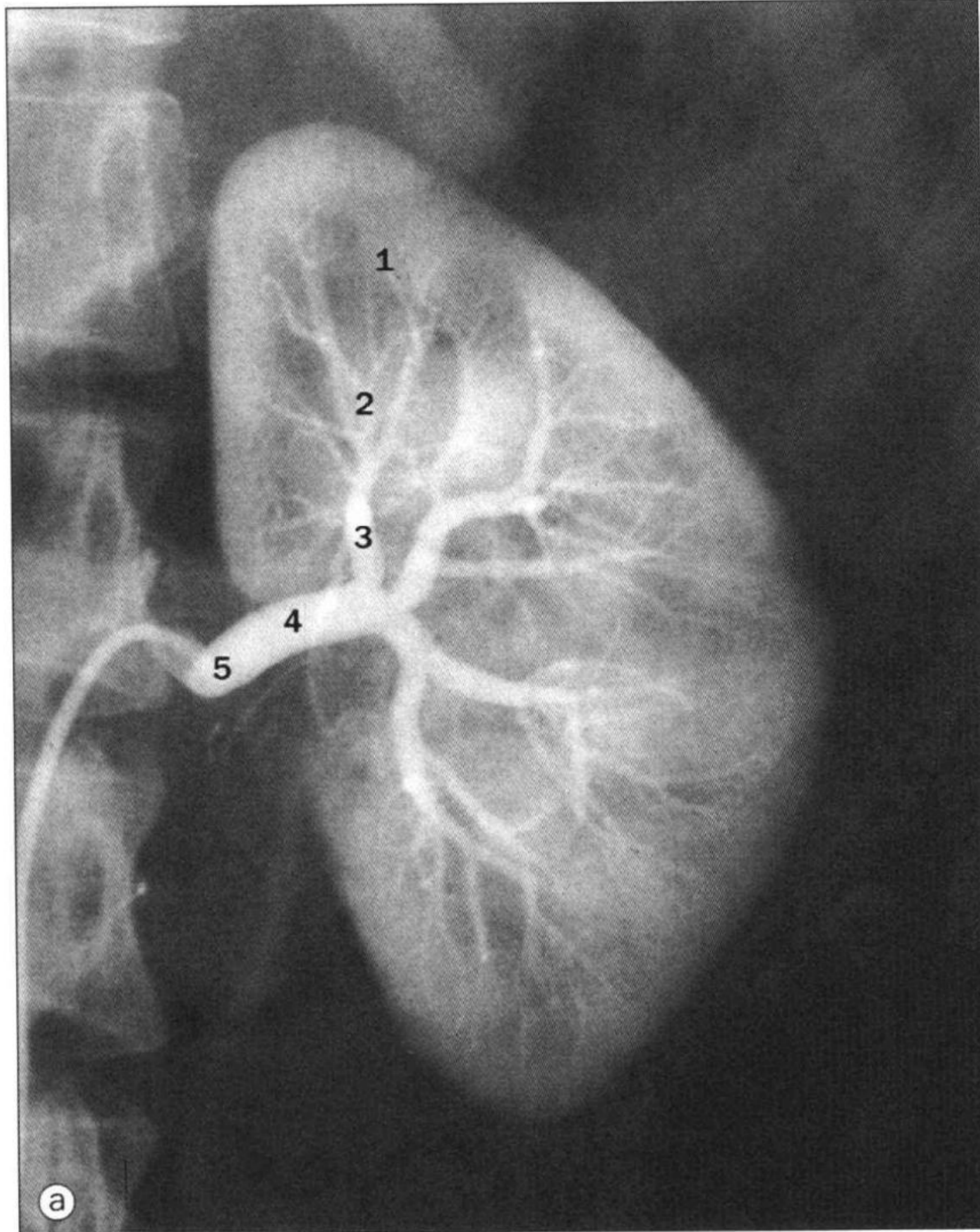


- 1 升结肠气体 gas in the ascending colon
- 2 降结肠气体 gas in the descending colon
- 3 十二指肠球部气体 gas in the duodenal cap (first part of the duodenum)
- 4 回肠气体 gas in the ileum
- 5 空肠气体 gas in the jejunum
- 6 胃内气体 gas in the stomach
- 7 左输尿管 left ureter

- 8 左肾下极 lower pole of left kidney
- 9 肾大盏 major calyx
- 10 肾小盏 minor calyx
- 11 肾乳头 renal papilla
- 12 肾盂 renal pelvis
- 13 右叶肝尖 tip of the right lobe of the liver
- 14 左肾上极 upper pole of left kidney

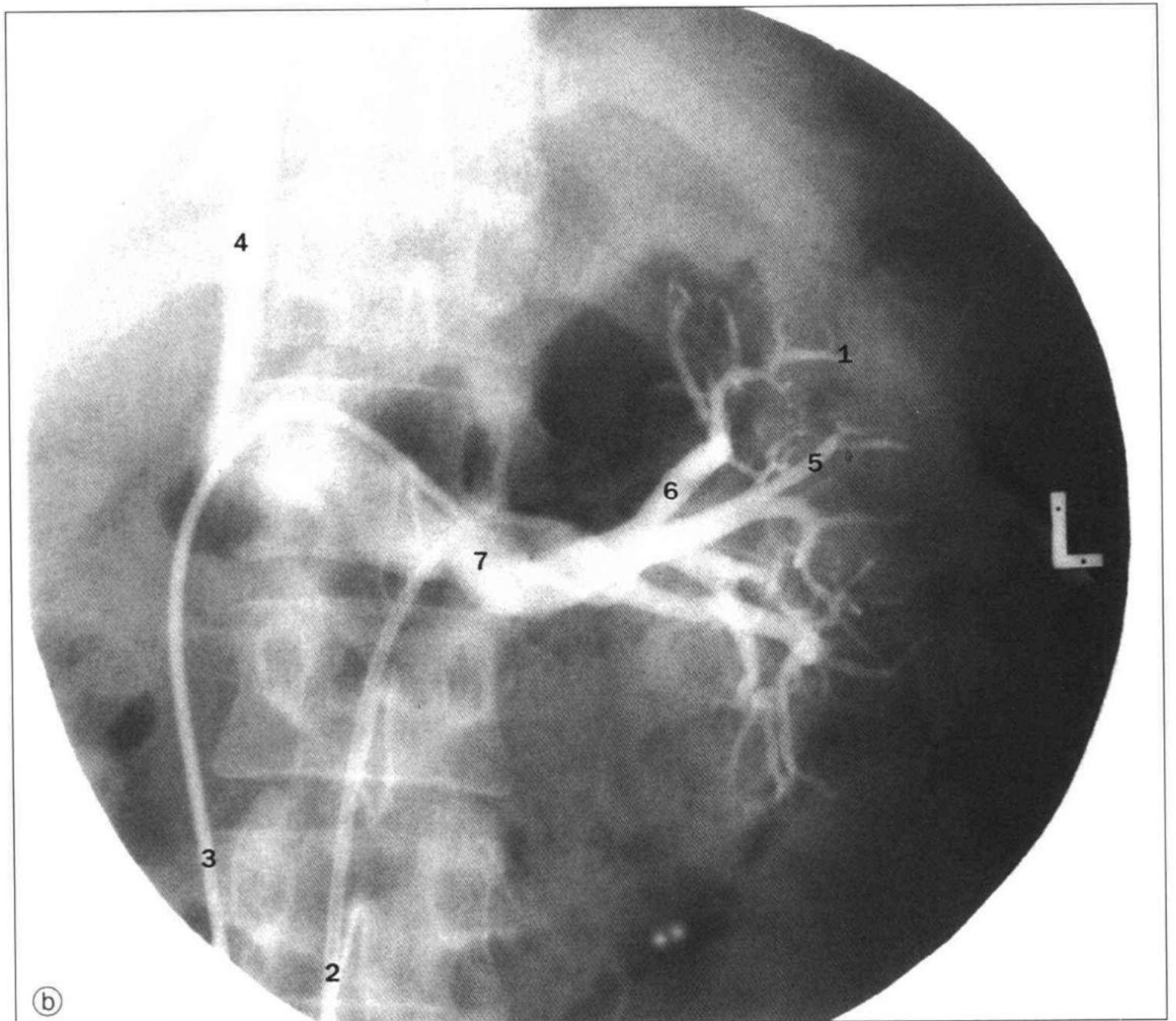
a. 肾动脉造影。

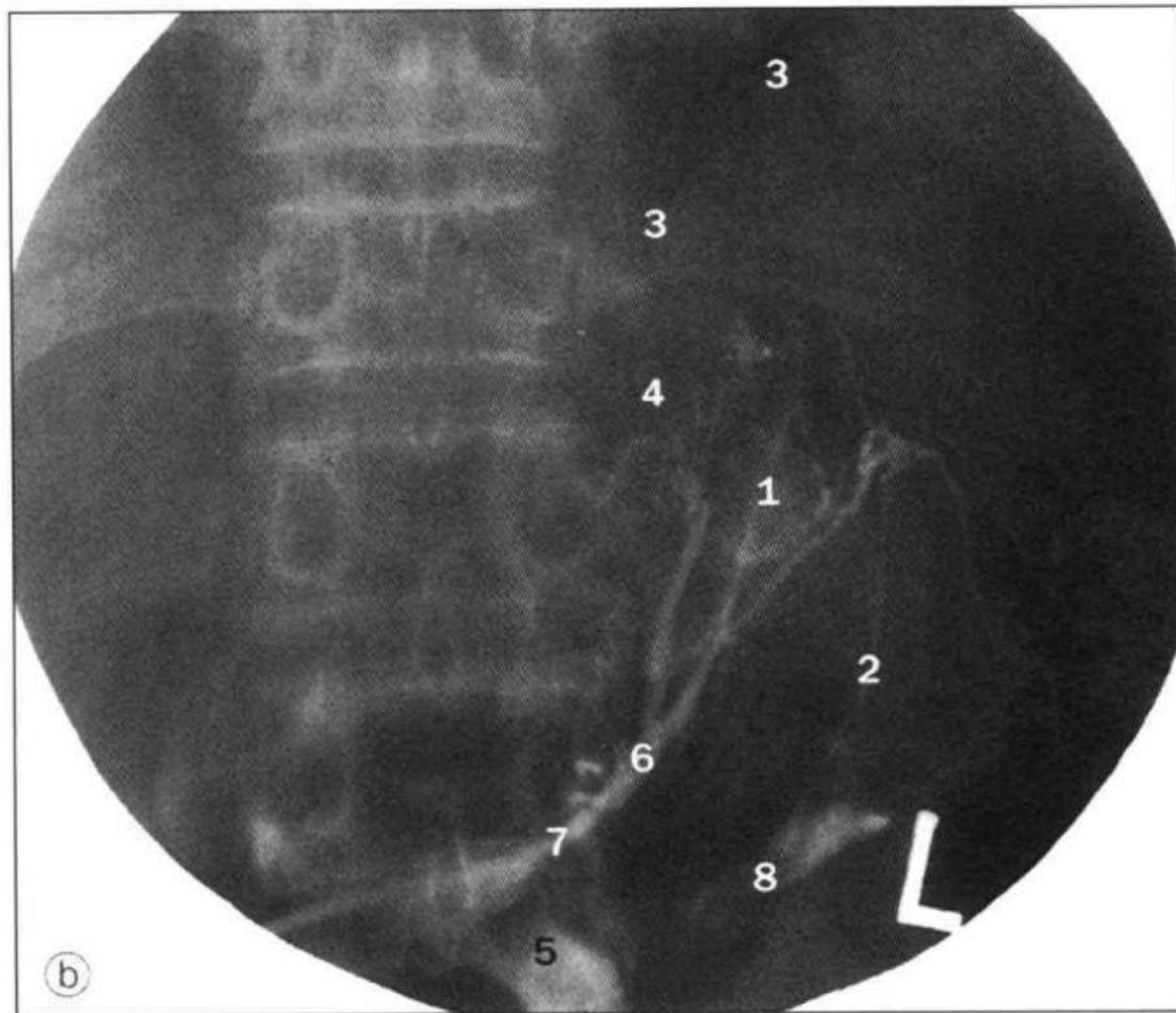
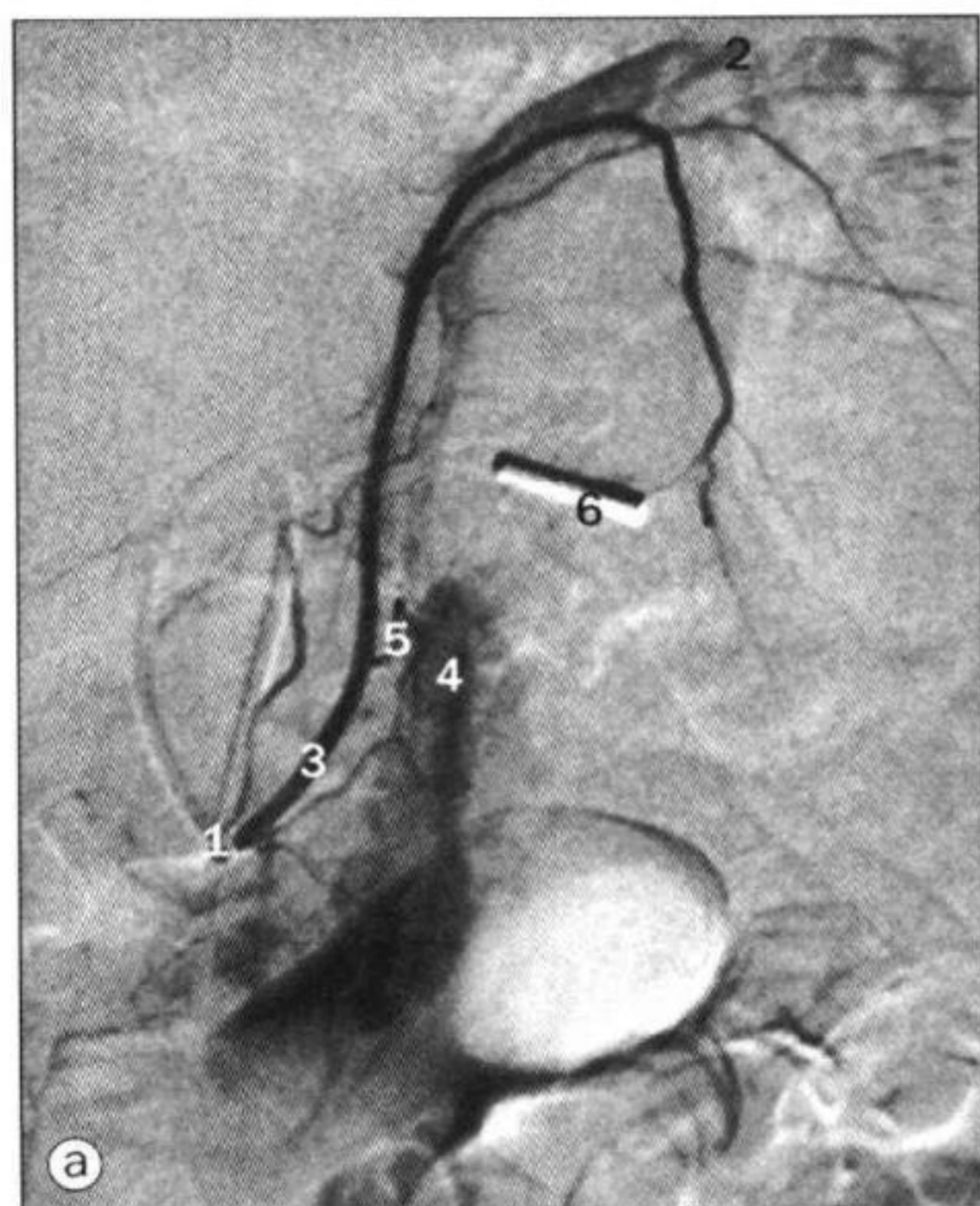
- 1 弓状动脉 arcuate arteries
- 2 叶间动脉 interlobar arteries
- 3 肾叶动脉 lobar arteries
- 4 肾动脉 main renal artery
- 5 肾动脉内的导管头
tip of catheter in renal artery



b. 左肾静脉造影。

- 1 弓状静脉 arcuate veins
- 2 左肾动脉内的导管
catheter in left renal artery
- 3 左肾静脉内的导管
catheter in left renal vein
- 4 下腔静脉 inferior vena cava
- 5 叶间静脉 interlobar veins
- 6 肾叶静脉 lobar veins
- 7 肾静脉 main renal vein





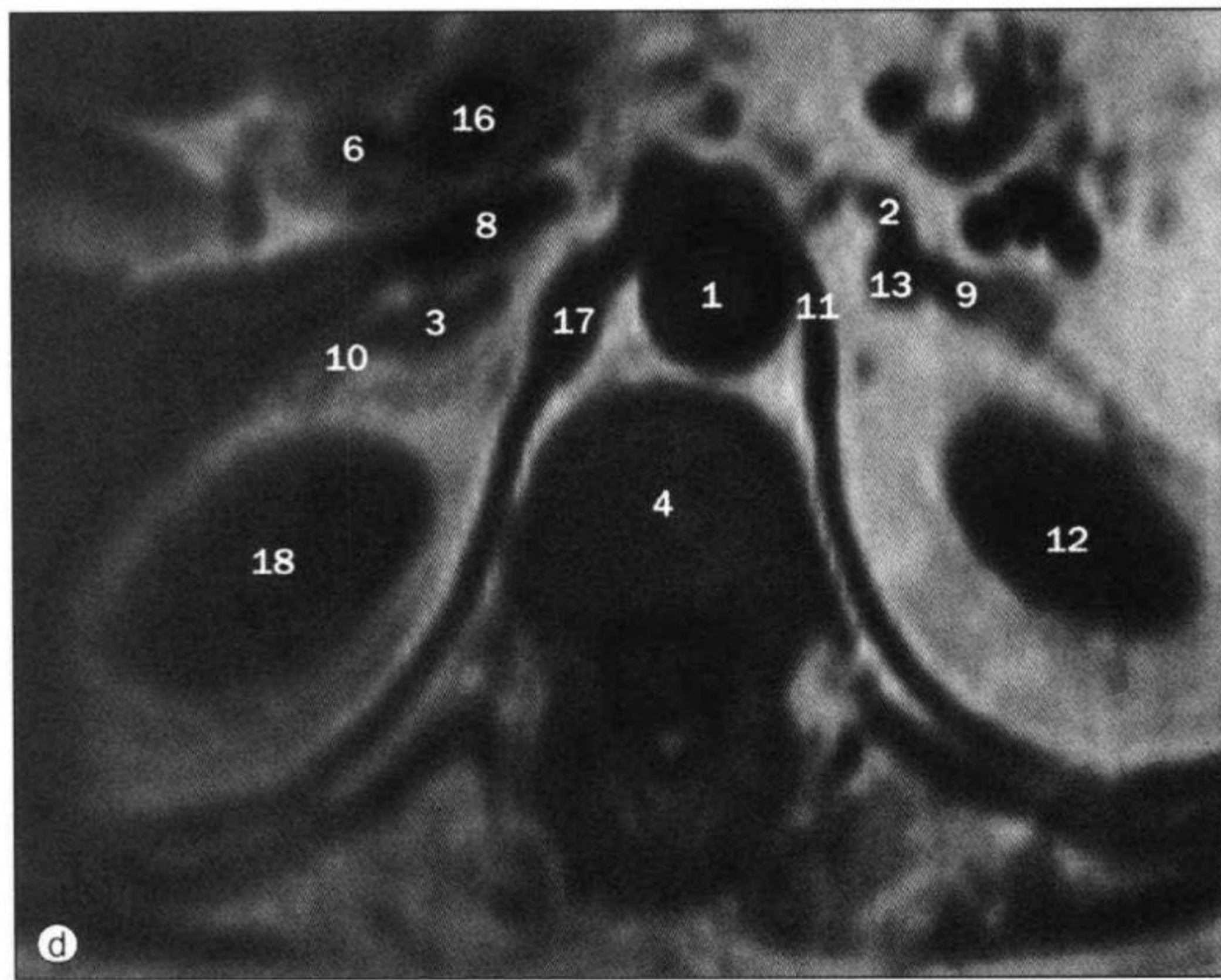
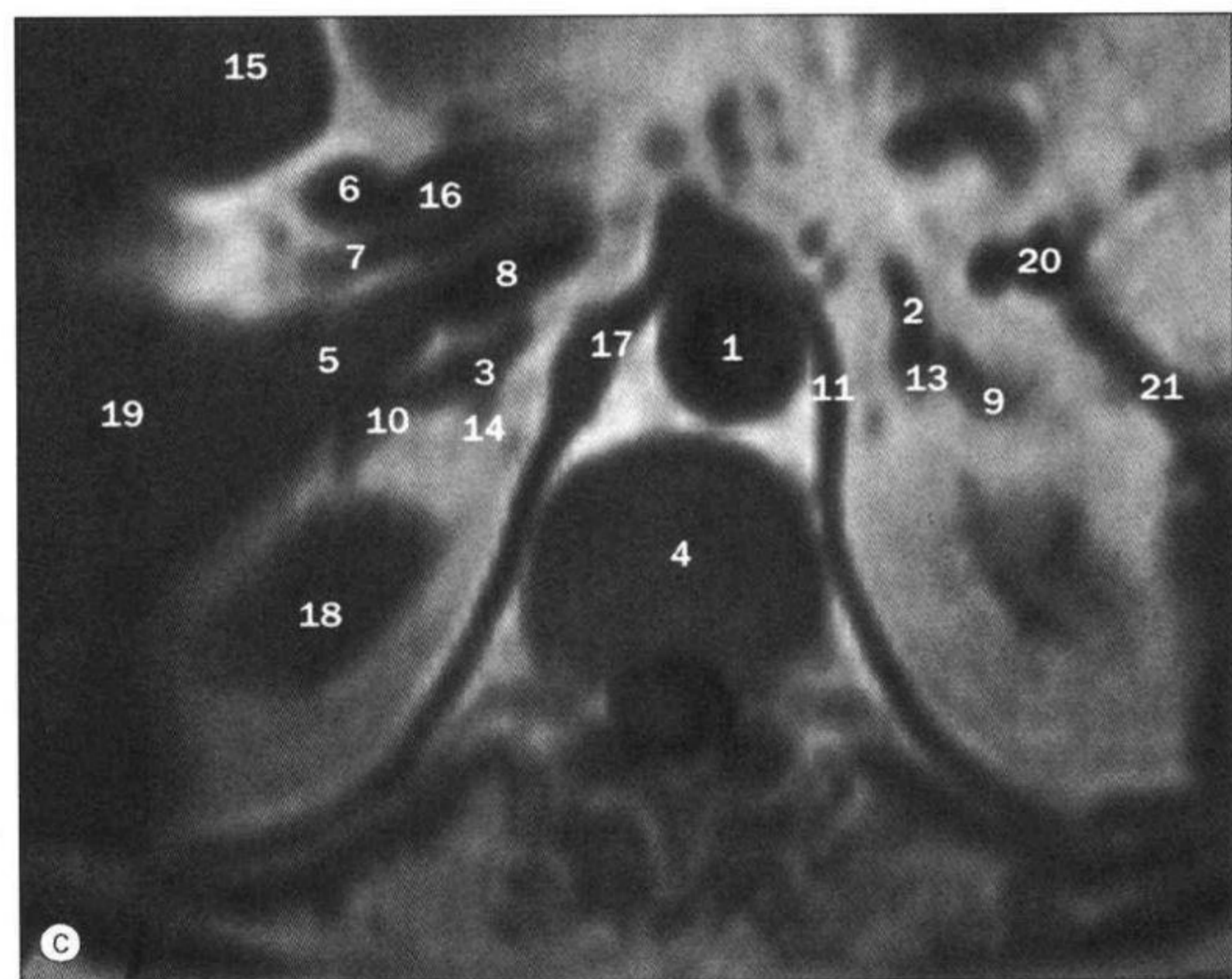
a. 左侧肾上腺动脉造影。

b. 左侧肾上腺静脉造影。

肾上腺血管造影已被其他影像技术所替代。尽管存在较大变异，肾上腺的动脉血供主要来自三条主要动脉：肾上腺下动脉，发自肾动脉；肾上腺中动脉，直接发自主动脉；肾上腺上动脉，从膈下动脉上升。在许多临床中心，仍进行肾上腺静脉采血检查以明确激素分泌性肿瘤的部位。

- 1 膈下动脉起点处的导管
catheter in origin of inferior phrenic artery
- 2 膈肌 diaphragm
- 3 膈下动脉 inferior phrenic artery
- 4 左肾上腺 left suprarenal gland
- 5 肾上腺上支 superior suprarenal arteries
- 6 鼻胃管头 tip of nasogastric tube

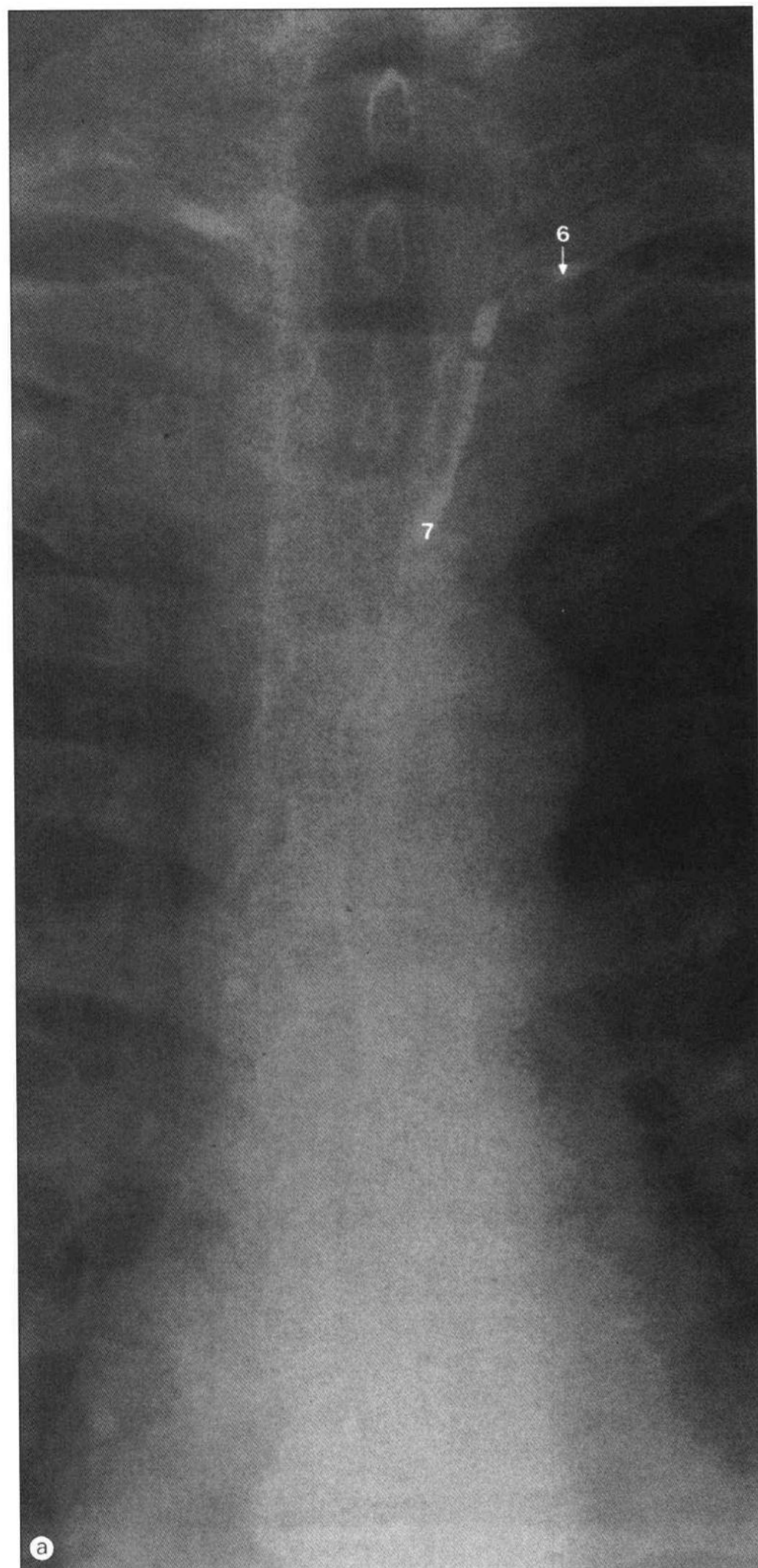
- 1 肾上腺腺瘤 adenoma in suprarenal gland
- 2 腺囊静脉 capsular veins
- 3 膈肌 diaphragm
- 4 膈下静脉 inferior phrenic vein
- 5 左肾静脉 left renal vein
- 6 左肾上腺静脉 left suprarenal vein
- 7 左肾上腺静脉内导管头 tip of catheter in left suprarenal vein
- 8 肾盏上极 upper pole calyx



c,d. 肾上腺，轴位片 MRI。

- 1 主动脉 aorta
- 2 左肾上腺体部 body of left suprarenal gland
- 3 右肾上腺体部 body of right suprarenal gland
- 4 椎体 body of vertebra
- 5 肝尾状叶 caudate lobe of liver
- 6 胆总管 common bile duct
- 7 肝动脉 hepatic artery
- 8 下腔静脉 inferior vena cava
- 9 左肾上腺外侧支 lateral limb of left suprarenal gland
- 10 右肾上腺外侧支 lateral limb of right suprarenal gland
- 11 左膈脚 left crus of diaphragm

- 12 左肾 left kidney
- 13 左肾上腺内侧支 medial limb of left suprarenal gland
- 14 右肾上腺内侧支
medial limb of right suprarenal gland
- 15 肝左叶内侧段 medial segment of left lobe of liver
- 16 门静脉 portal vein
- 17 右膈脚 right crus of diaphragm
- 18 右肾 right kidney
- 19 肝右叶 right lobe of liver
- 20 脾动脉 splenic artery
- 21 脾静脉 splenic vein



淋巴管造影。

a. 胸部、上腹部。

b. 腰椎旁。

- 1 腰升淋巴链 ascending lumbar chains
- 2 乳糜池 cisterna chyli
- 3 腹股沟淋巴管输出支 efferent inguinal lymphatics
- 4 髂外淋巴结 external iliac nodes (early filling)
- 5 腹股沟淋巴结 inguinal nodes (early filling)
- 6 终端壶腹 terminal ampulla
- 7 胸导管 thoracic duct

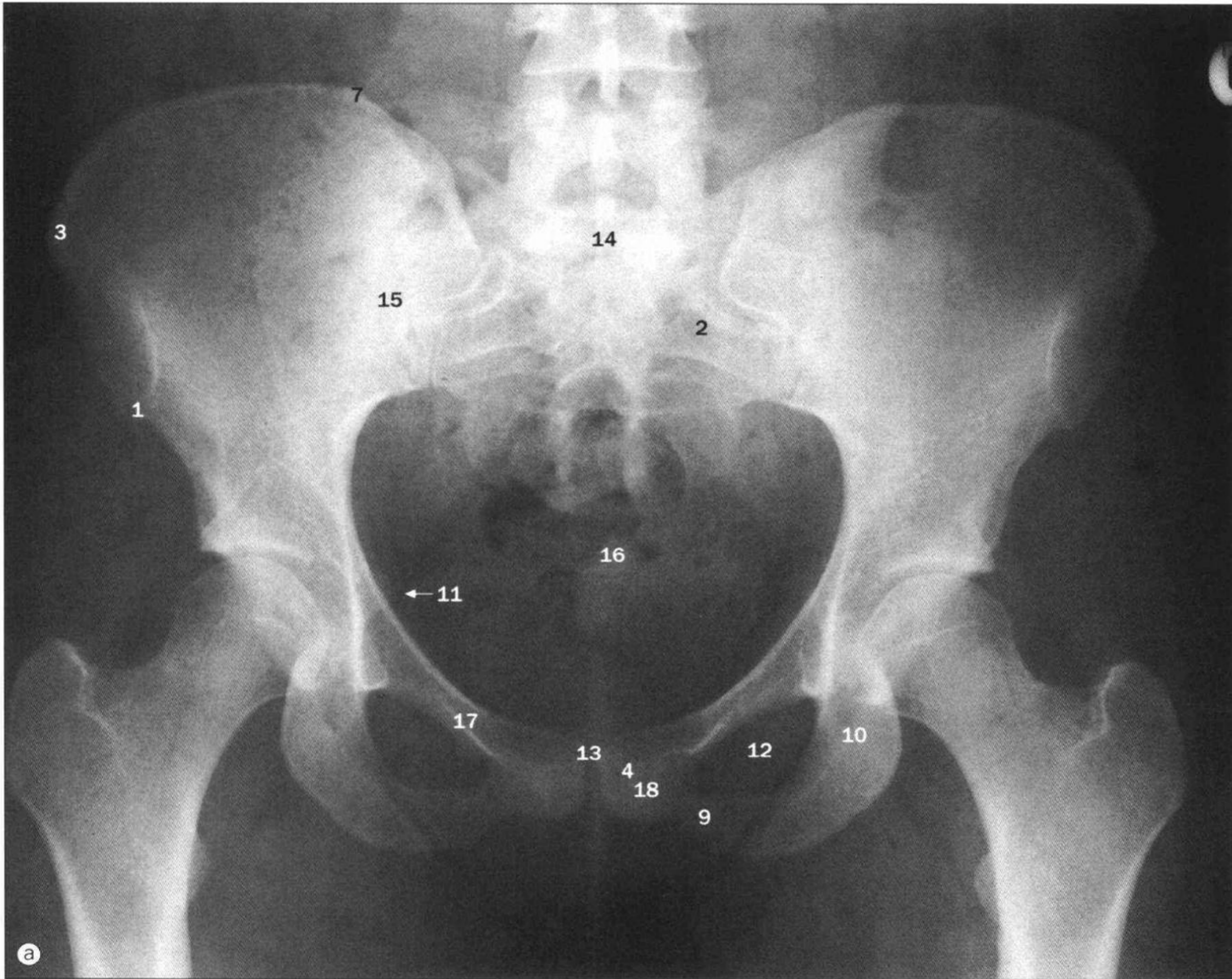


骨盆淋巴管造影。图注参见第 156 页。



7

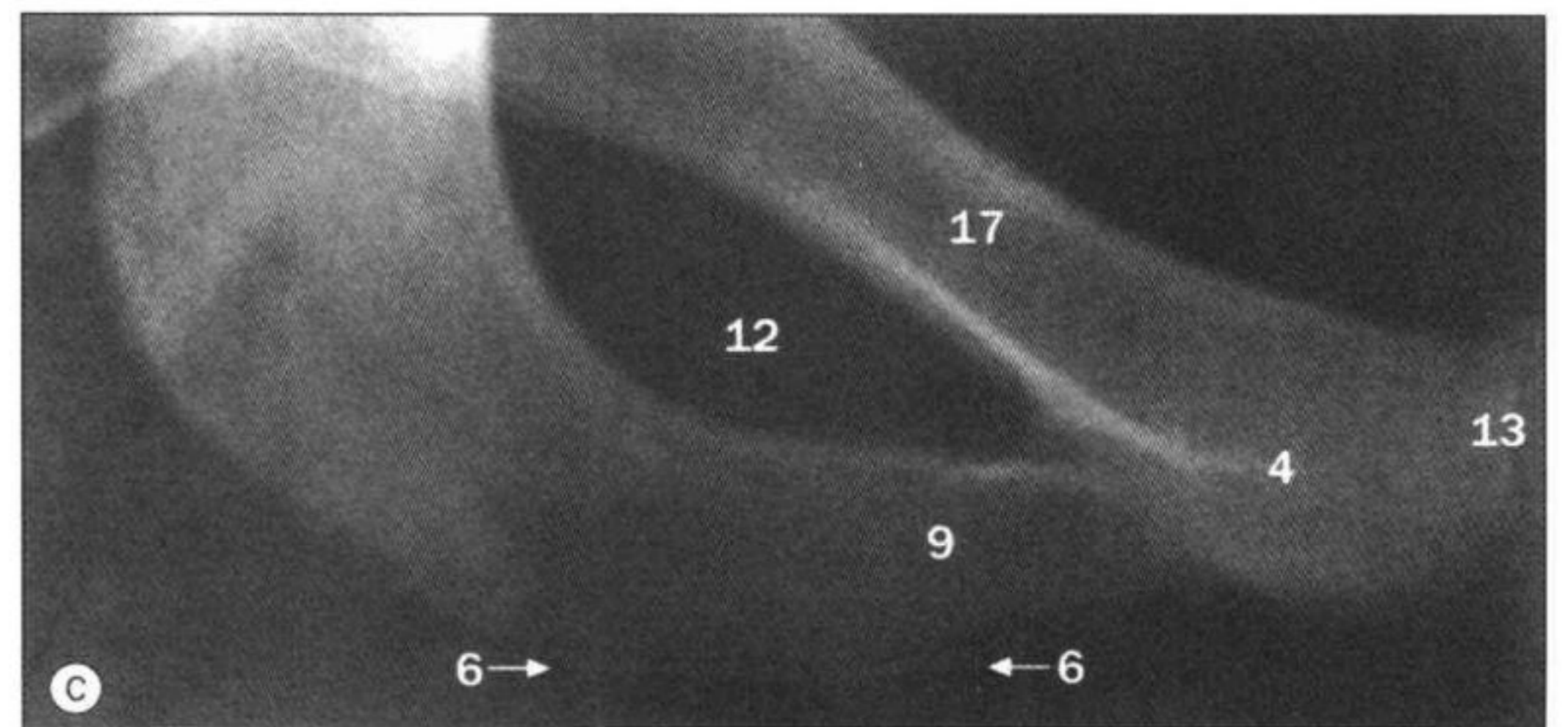
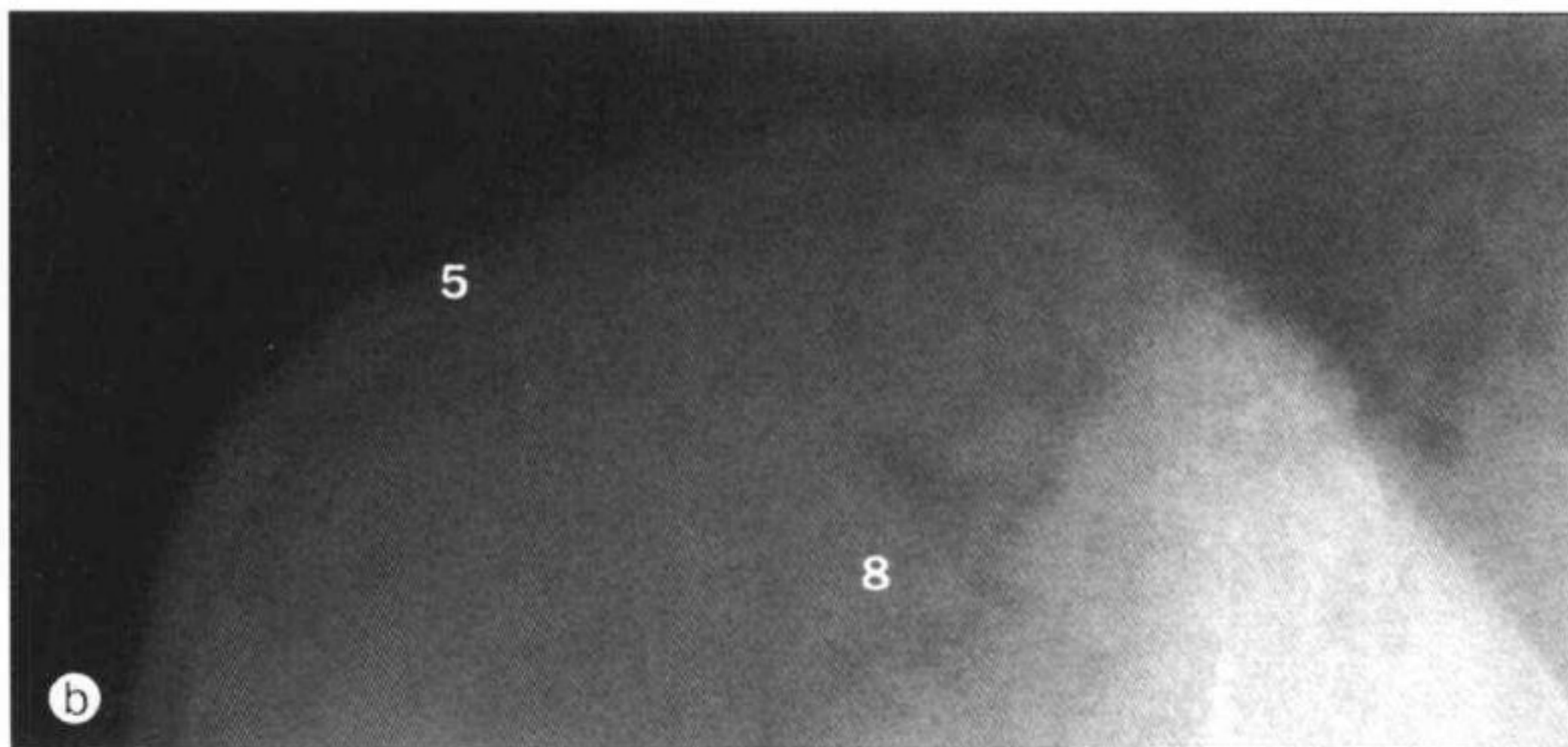
盆 部

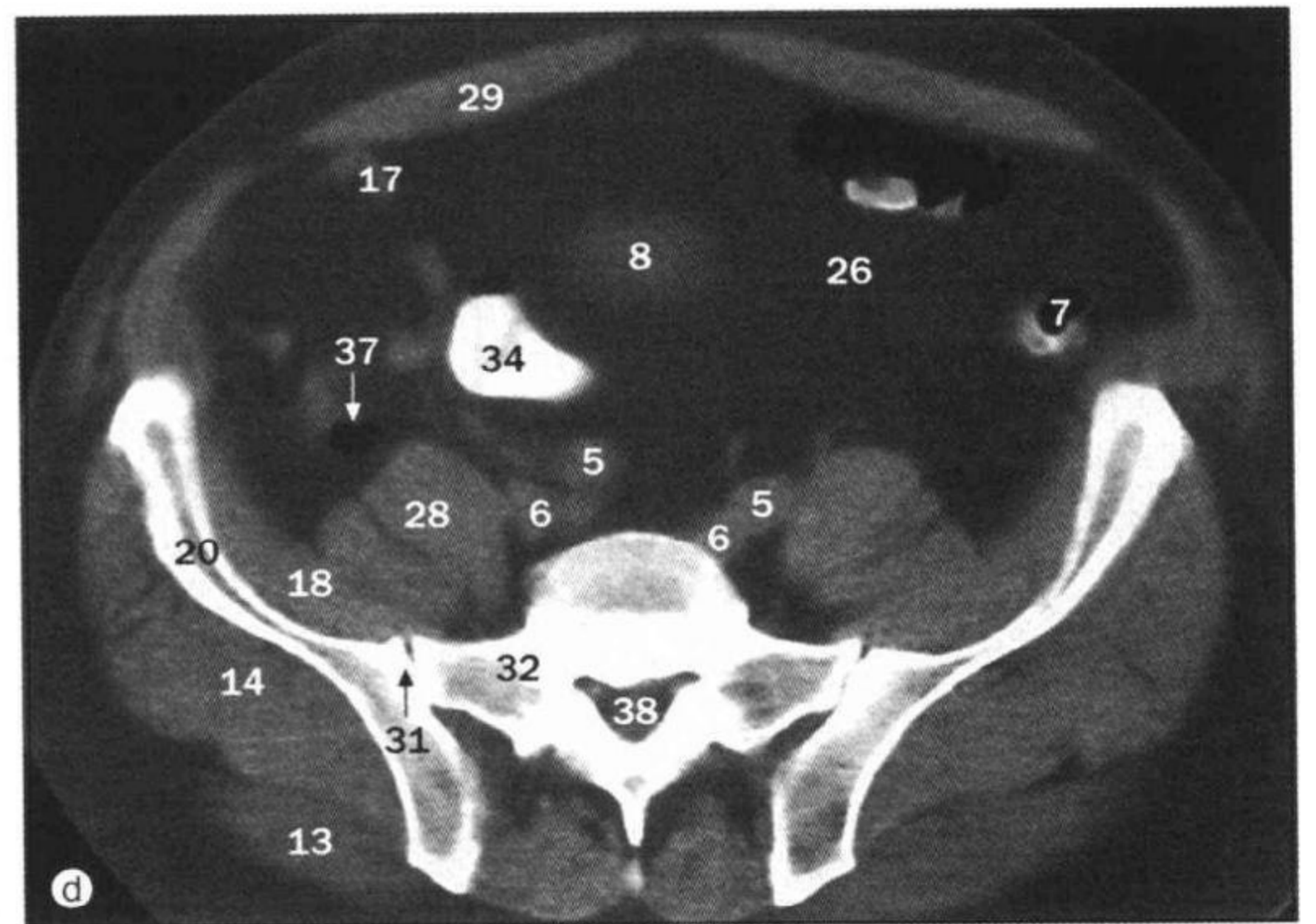
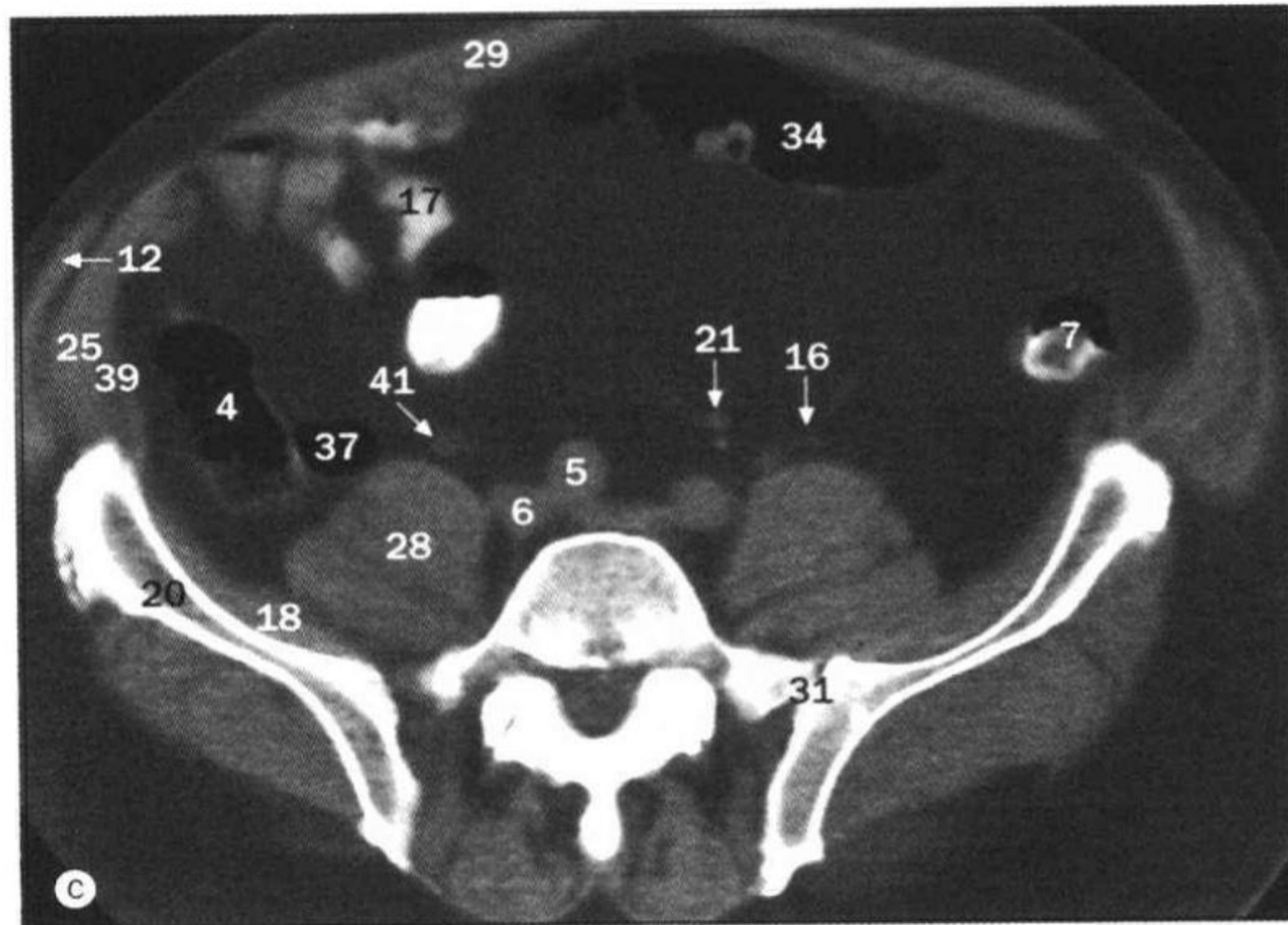
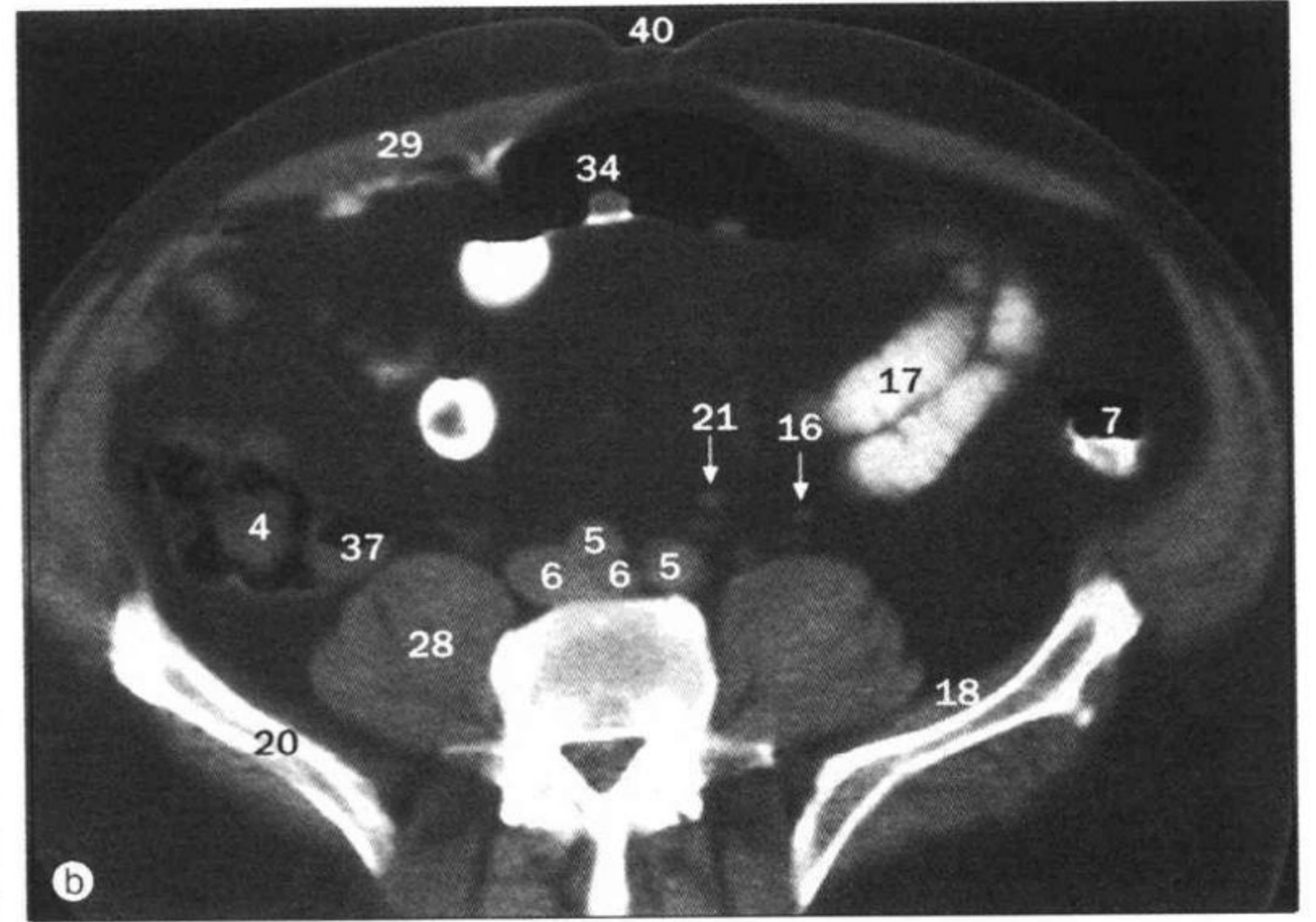
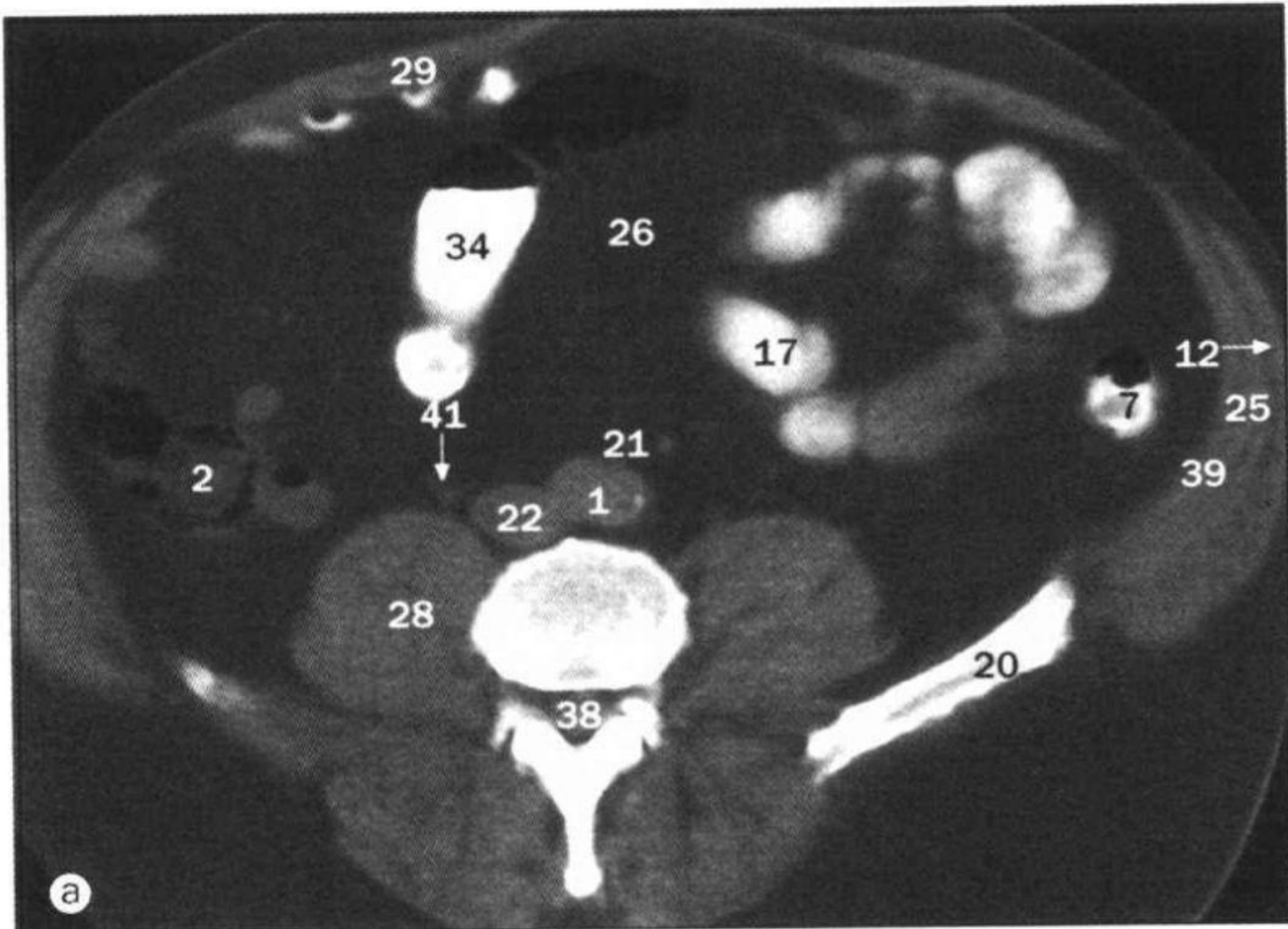


a. 成年女性骨盆和髋部，前后位X线。

b, c. 17岁男性骨盆，前后位X线。

- | | | |
|--|--------------------------------|---------------------------------|
| 1 髂前下棘 anterior inferior iliac spine | 7 髂窝 iliac crest | 13 耻骨联合 pubic symphysis |
| 2 骶前孔 anterior sacral foramen | 8 髌骨 ilium | 14 骶窝 sacral crest |
| 3 髂前上棘 anterior superior iliac spine | 9 耻骨下支 inferior ramus of pubis | 15 骶髂关节 sacro-iliac joint |
| 4 耻骨体 body of pubis | 10 坐骨支 ischial ramus | 16 尾骨节段 segment of coccyx |
| 5 髂窝骨化中心 centre for iliac crest | 11 坐骨棘 ischial spine | 17 耻骨上支 superior ramus of pubis |
| 6 坐骨结节骨化中心 centre for ischial tuberosity | 12 闭孔 obturator foramen | 18 耻骨结节 tubercle of pubis |

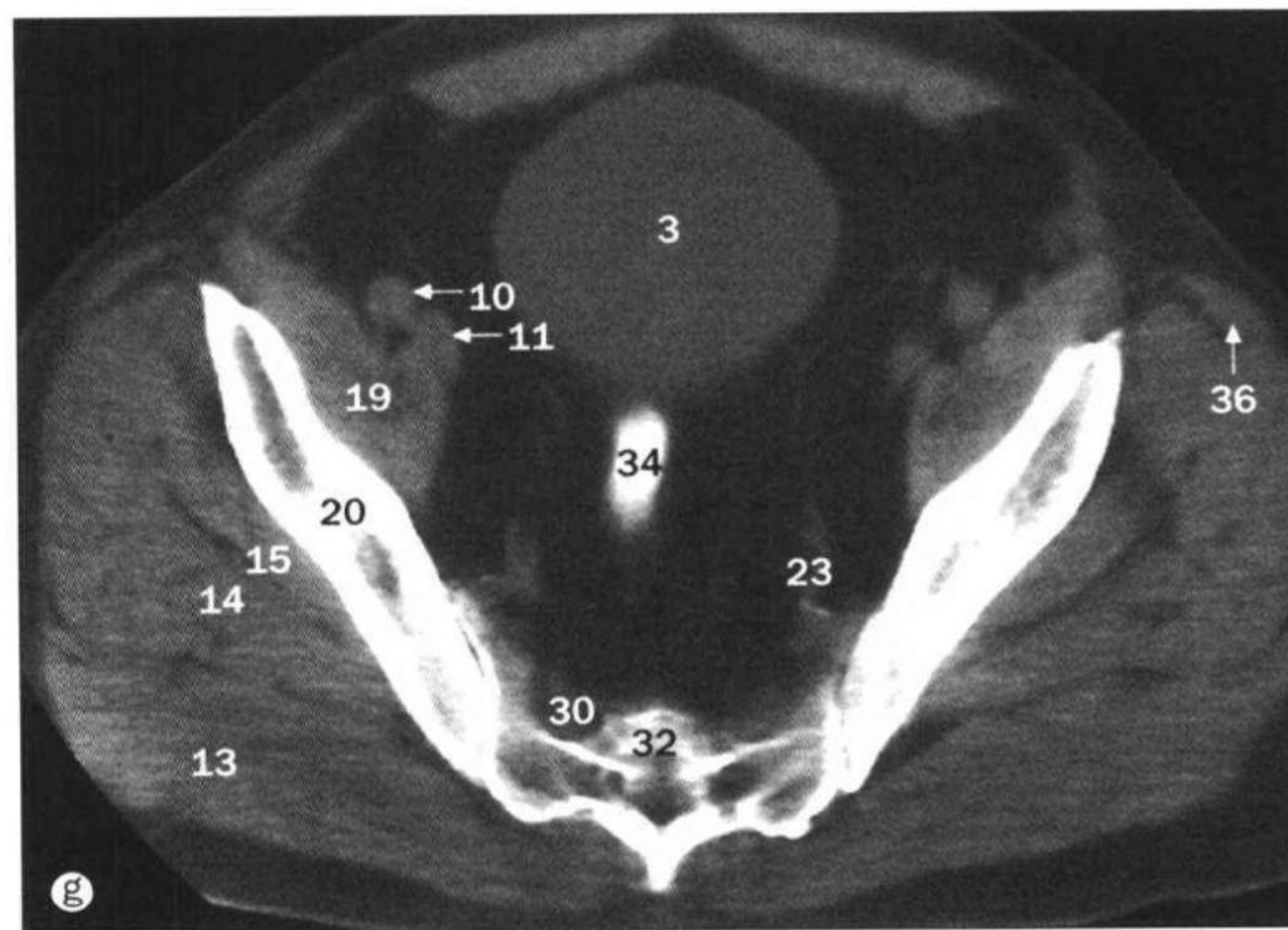
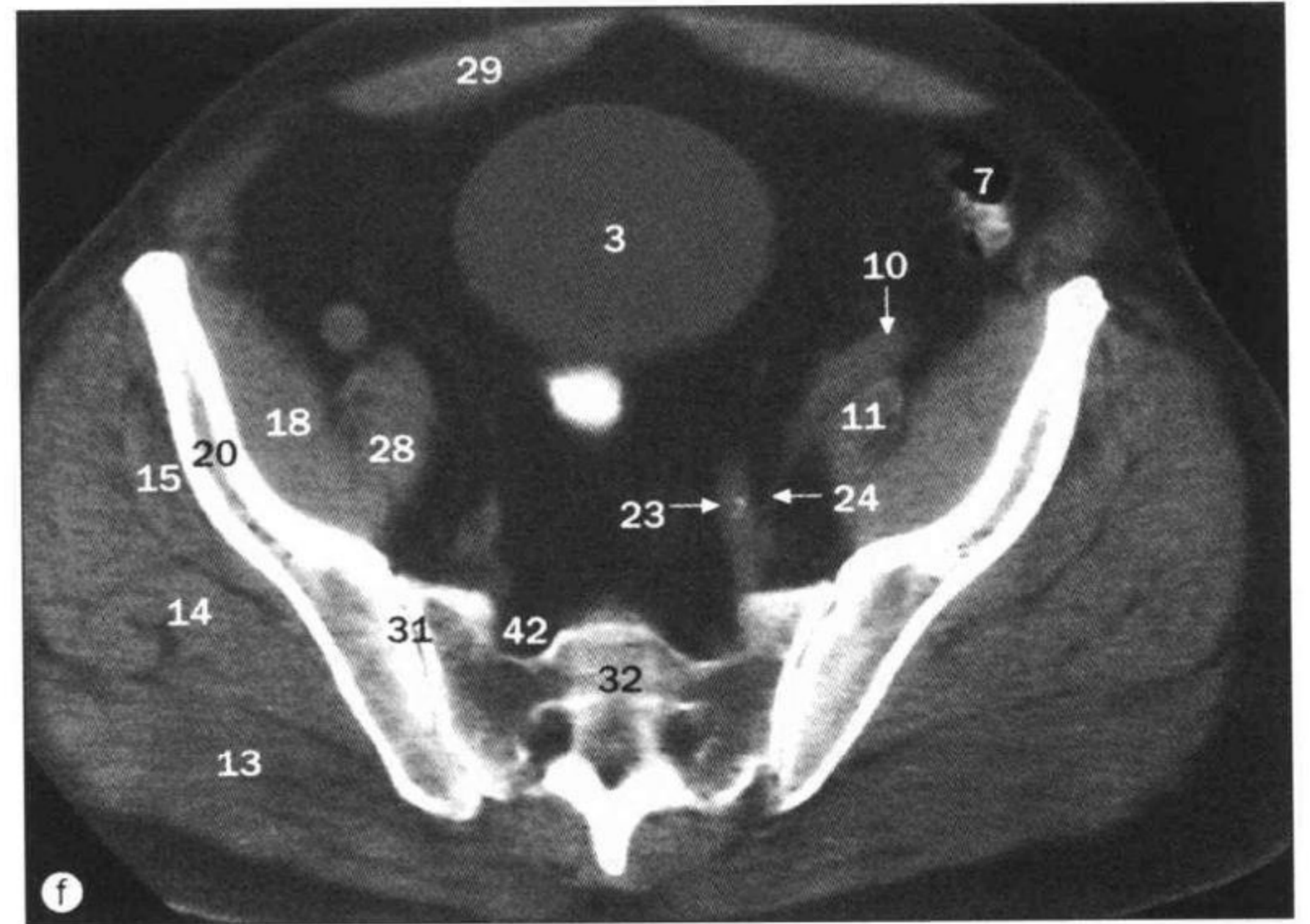
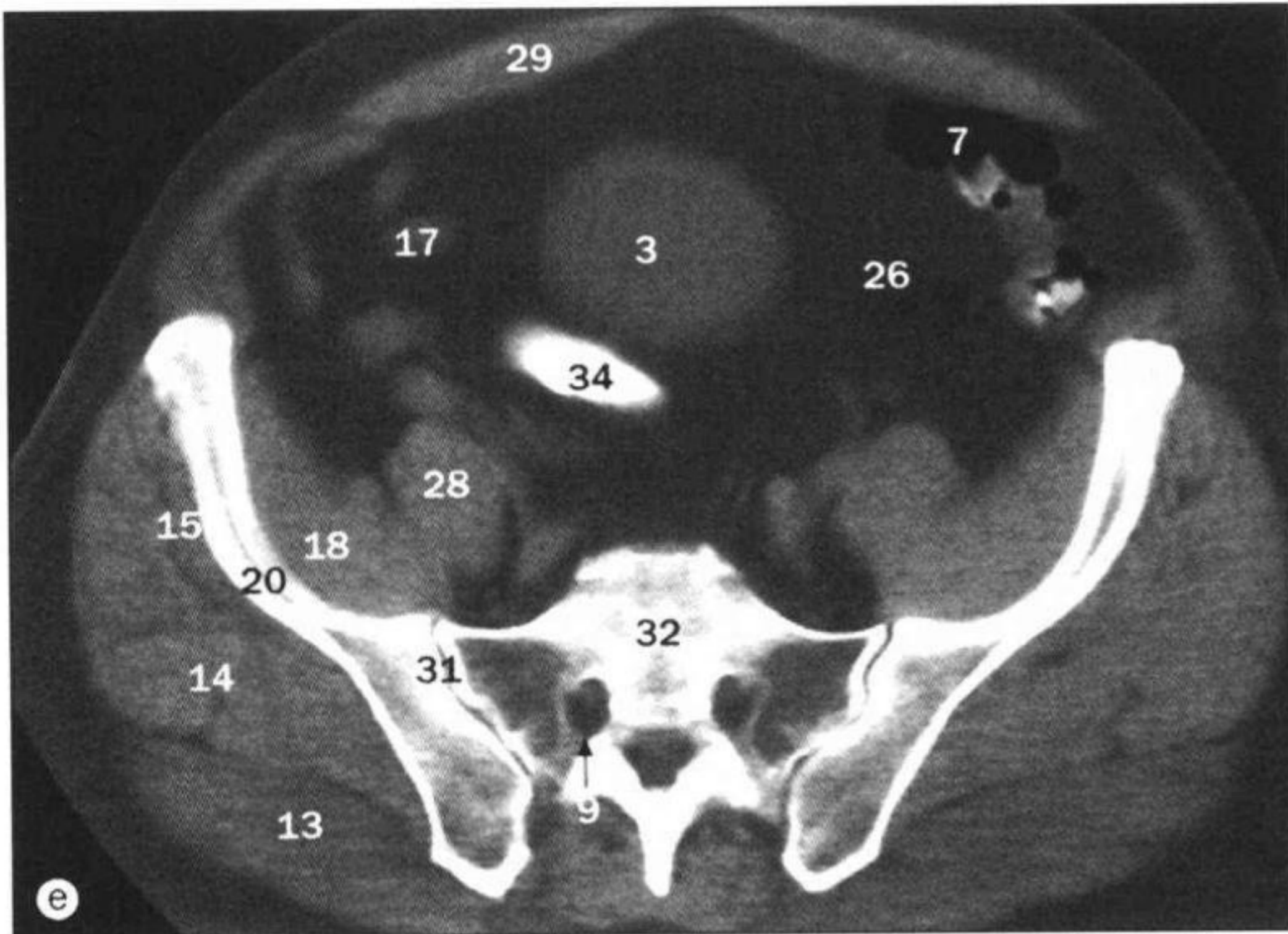




a~h. 男性盆部, 轴位 CT。

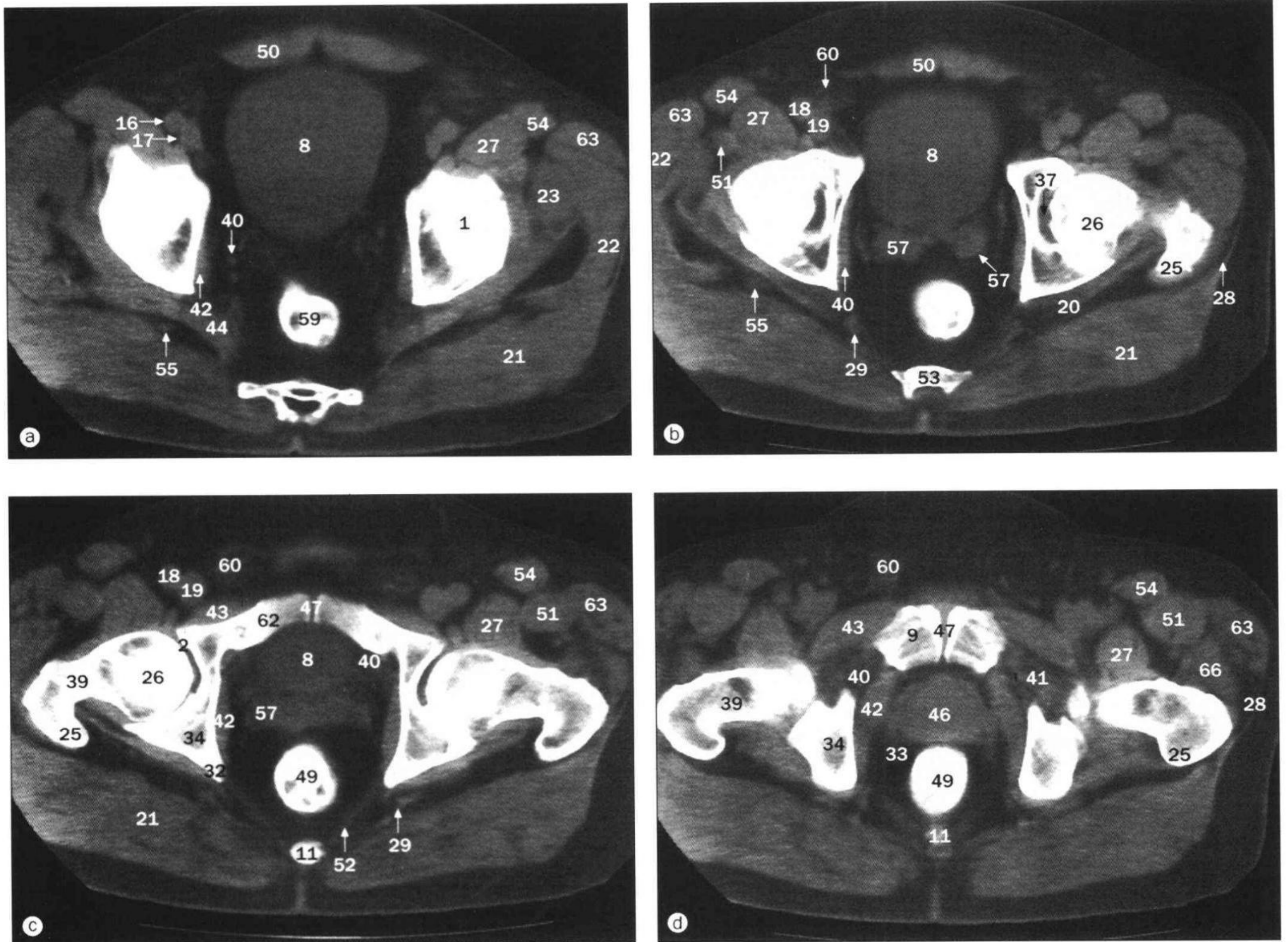
- 1 主动脉 aorta
- 2 升结肠 ascending colon
- 3 膀胱 bladder
- 4 盲肠 caecum
- 5 髂总动脉 common iliac artery
- 6 髂总静脉 common iliac vein
- 7 降结肠 descending colon
- 8 膀胱穹隆 dome of bladder
- 9 骶后孔 dorsal sacral foramen
- 10 髂外动脉 external iliac artery

- 11 髂外静脉 external iliac vein
- 12 腹外斜肌 external oblique muscle
- 13 臀大肌 gluteus maximus muscle
- 14 臀中肌 gluteus medius muscle
- 15 臀小肌 gluteus minimus muscle
- 16 性腺动静脉 gonadal artery and vein
- 17 回肠袢 ileal loop
- 18 髂肌 iliacus muscle
- 19 髂腰肌 iliopsoas muscle
- 20 髂骨 ilium



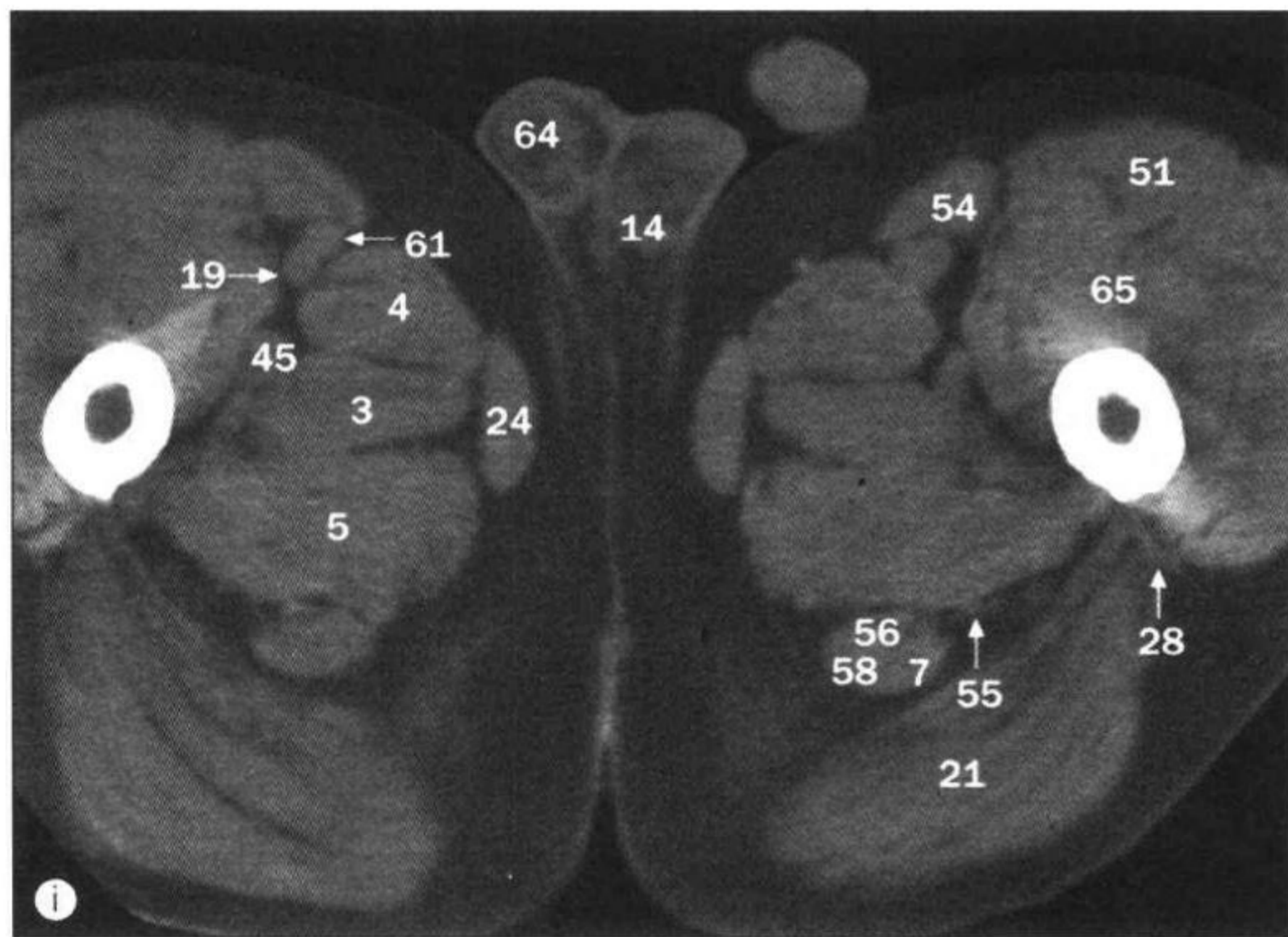
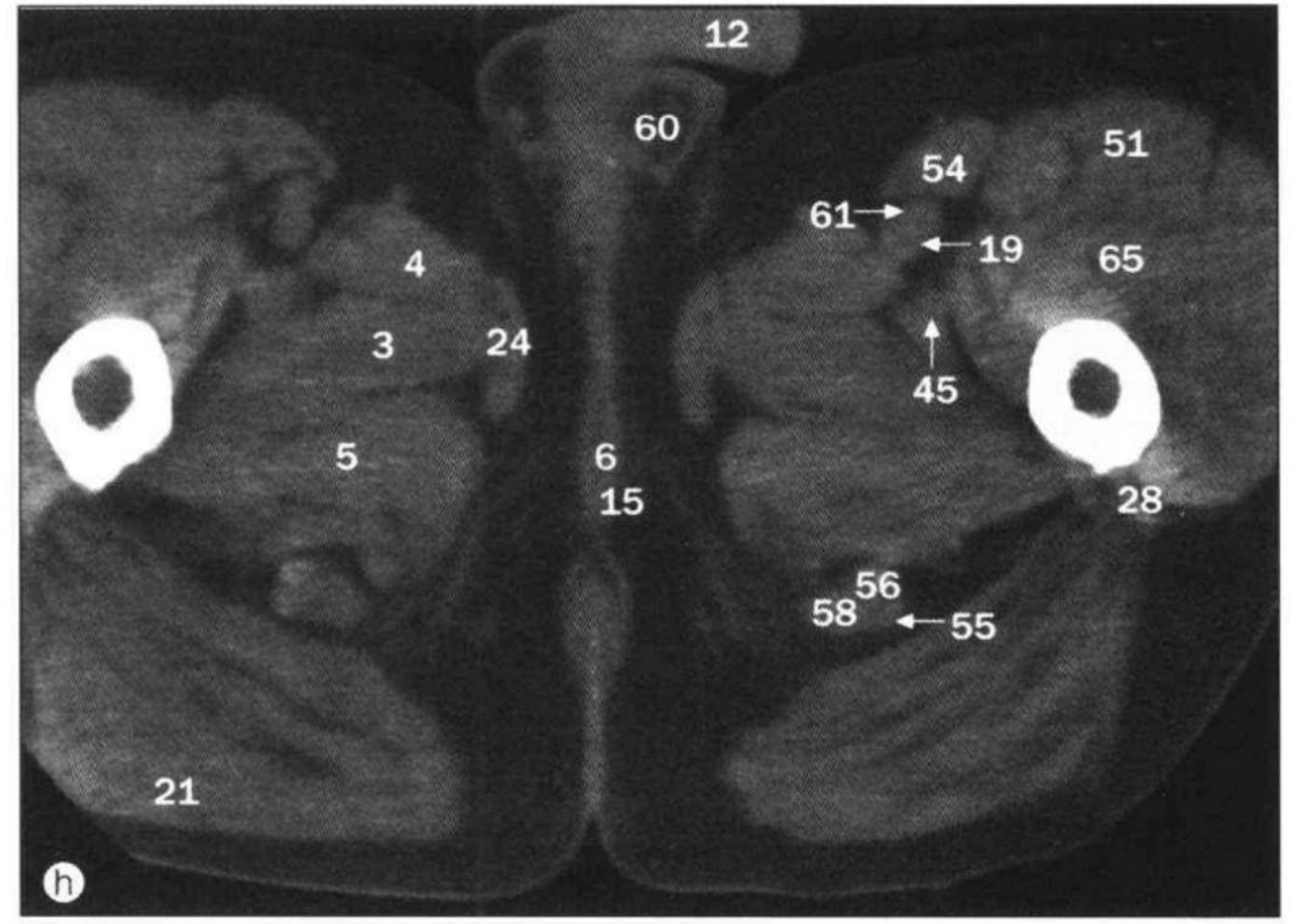
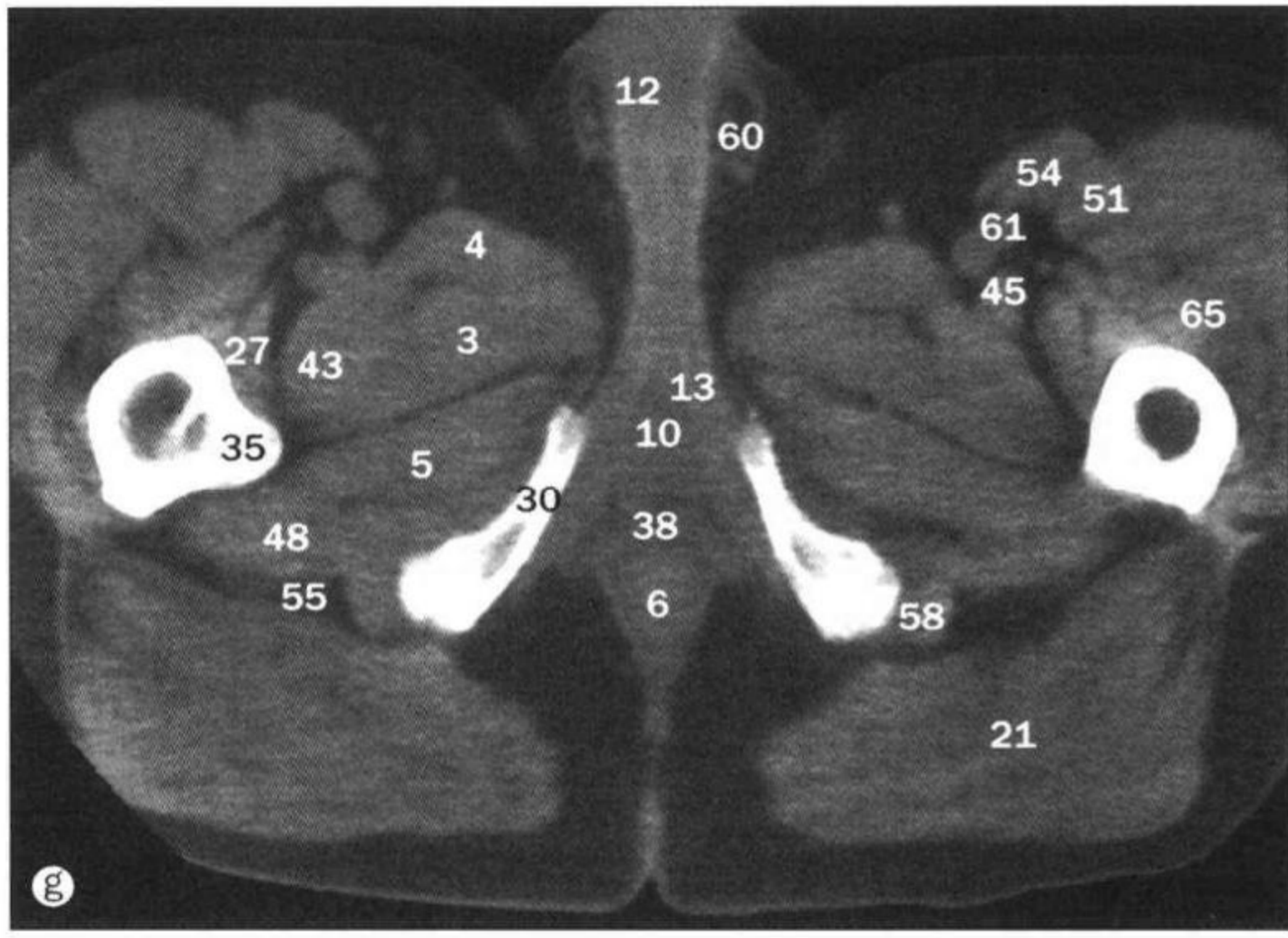
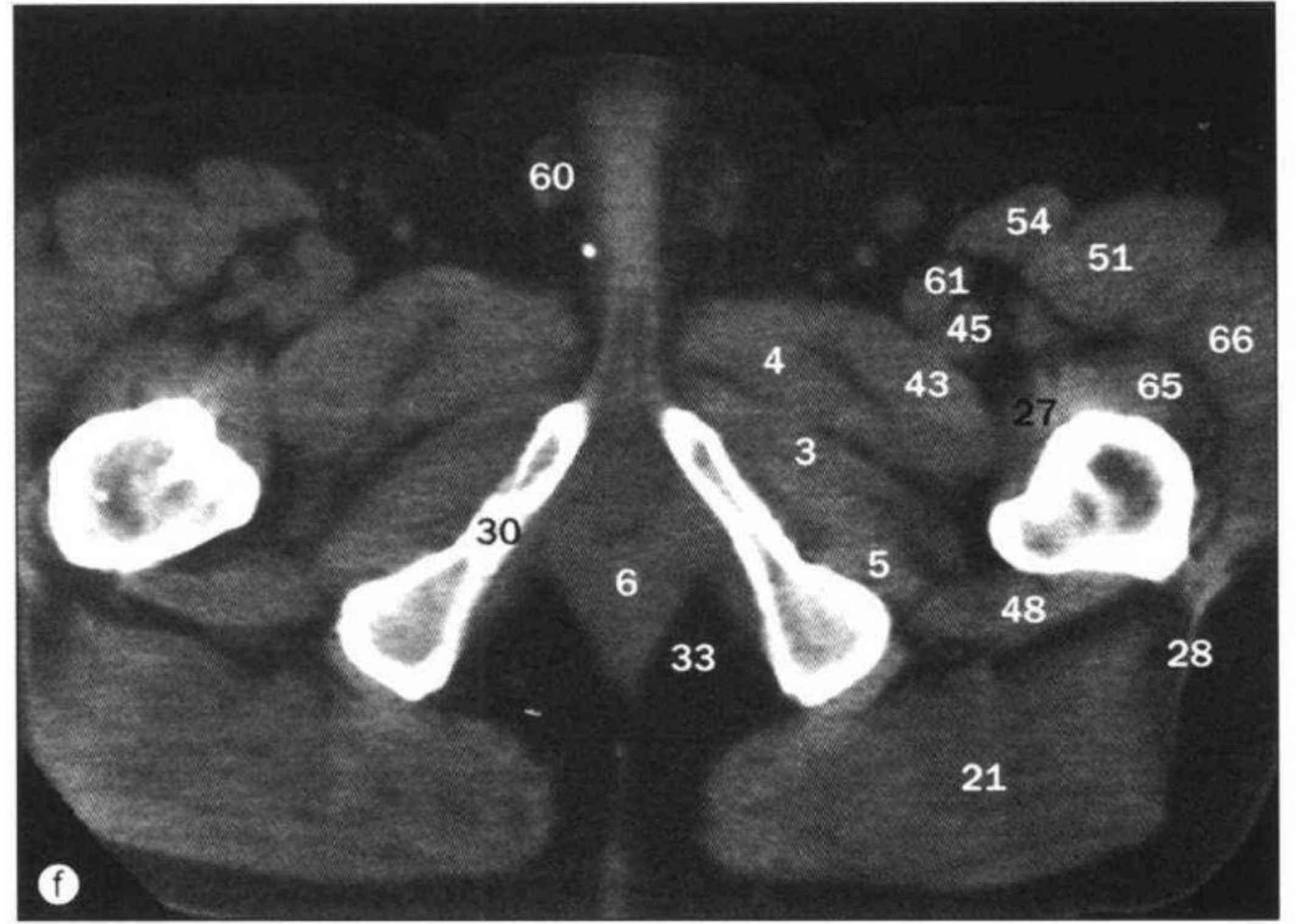
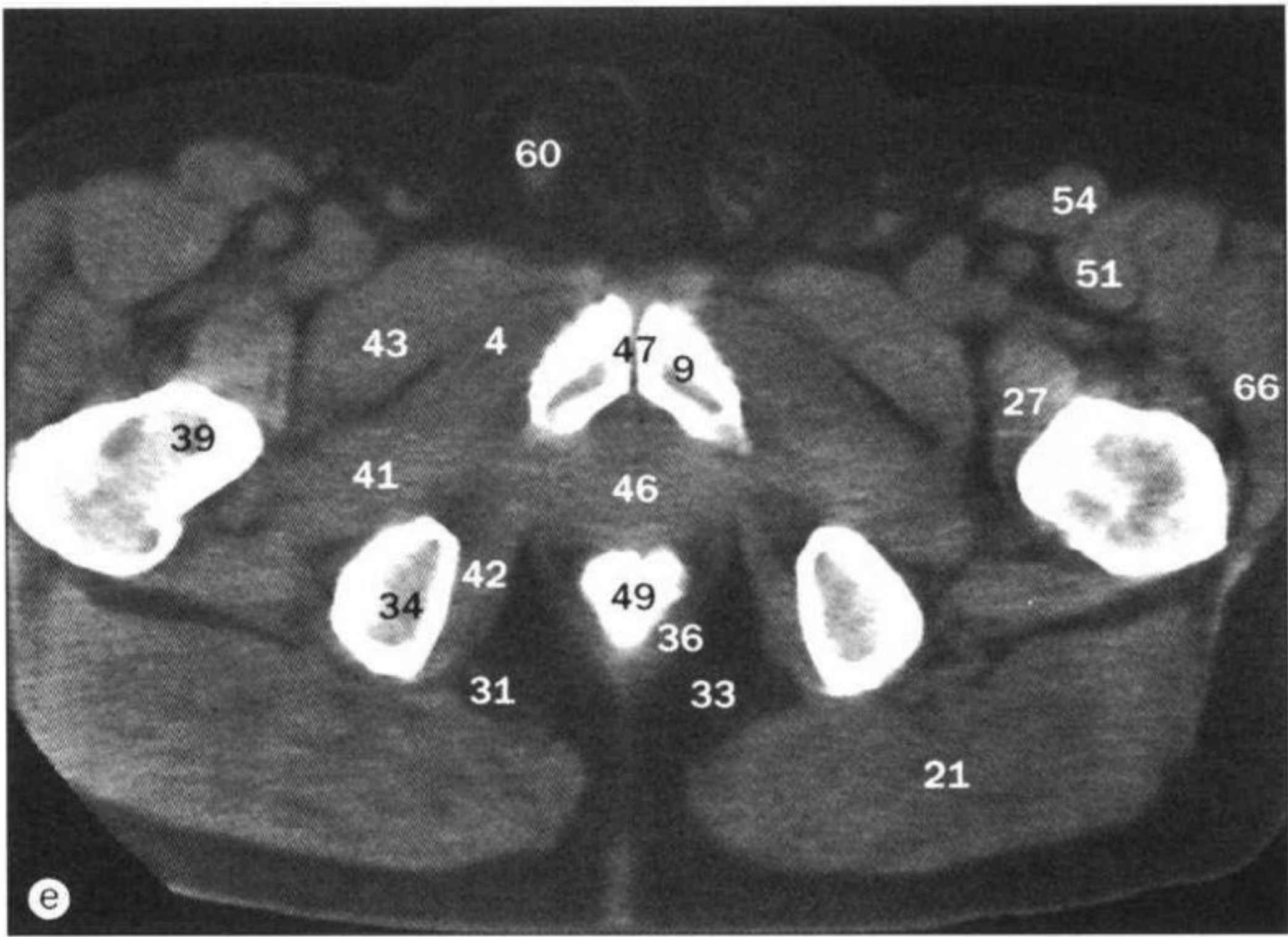
- 21 肠系膜下动脉 inferior mesenteric artery
- 22 下腔静脉 inferior vena cava
- 23 髂内动脉 internal iliac artery
- 24 髂内静脉 internal iliac vein
- 25 腹内斜肌 internal oblique muscle
- 26 肠系膜脂肪 mesenteric fat
- 27 梨状肌 piriformis muscle
- 28 腰大肌 psoas muscle
- 29 腹直肌 rectus abdominis muscle
- 30 骶丛 sacral plexus
- 31 骶髂关节 sacro-iliac joint

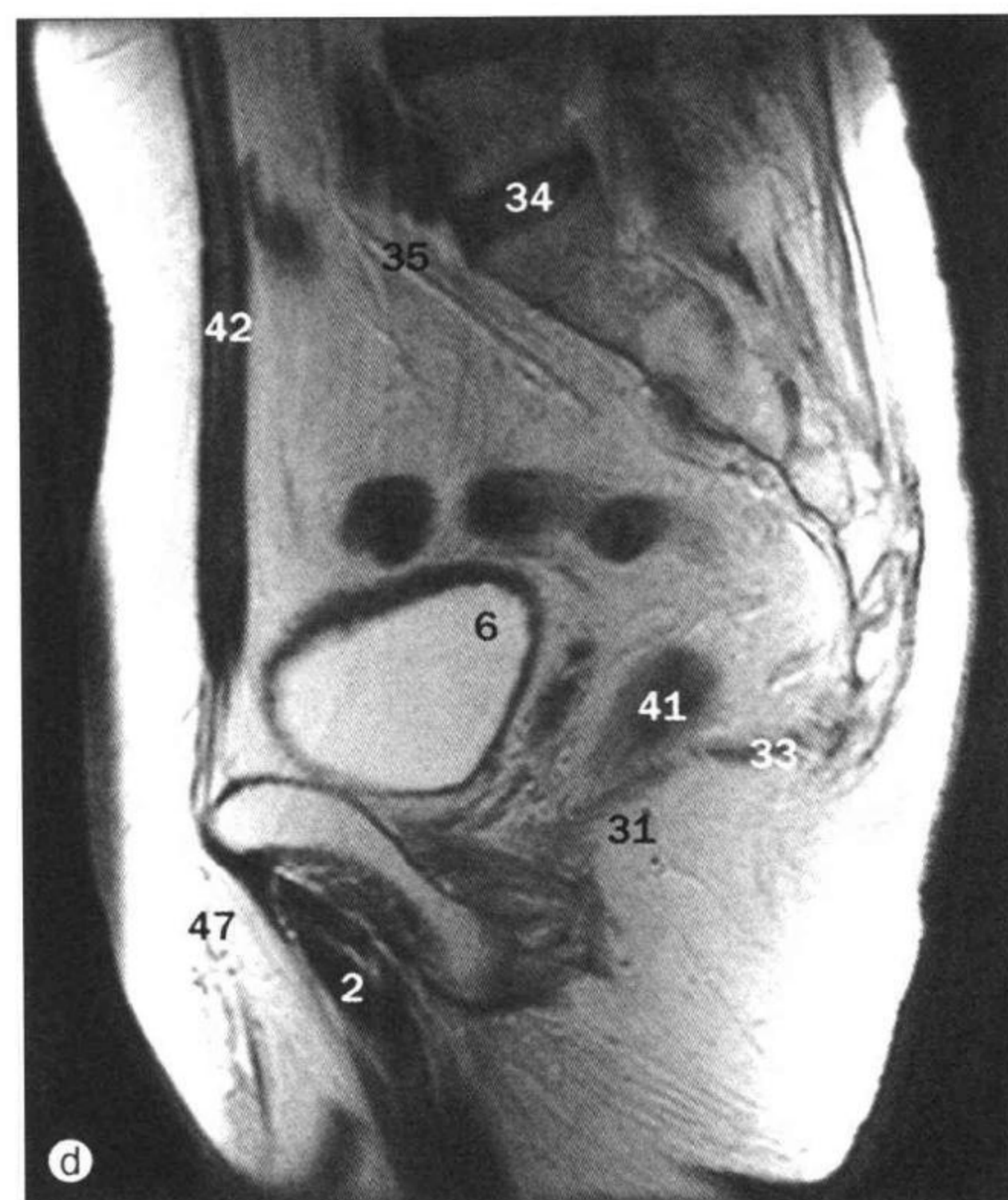
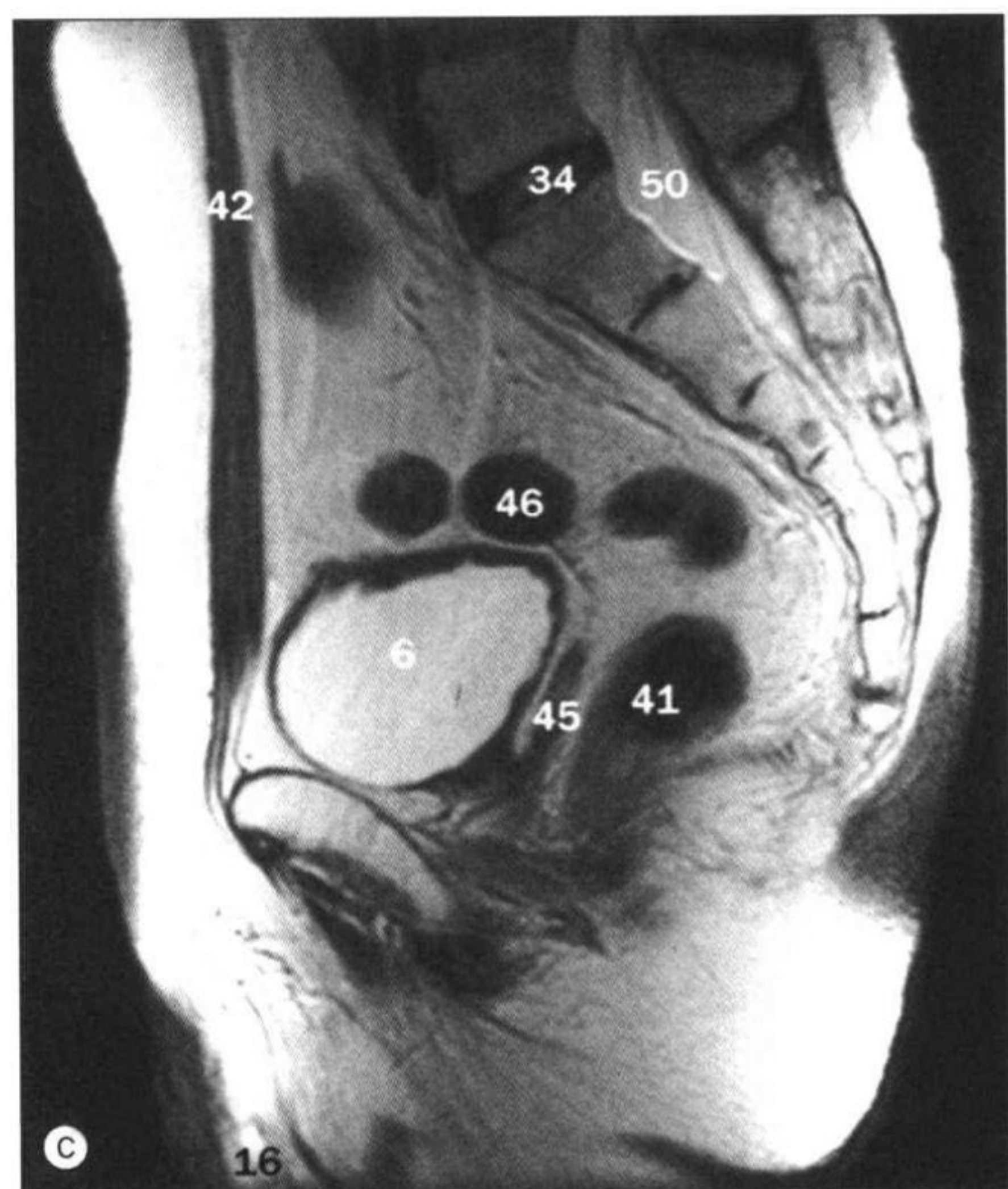
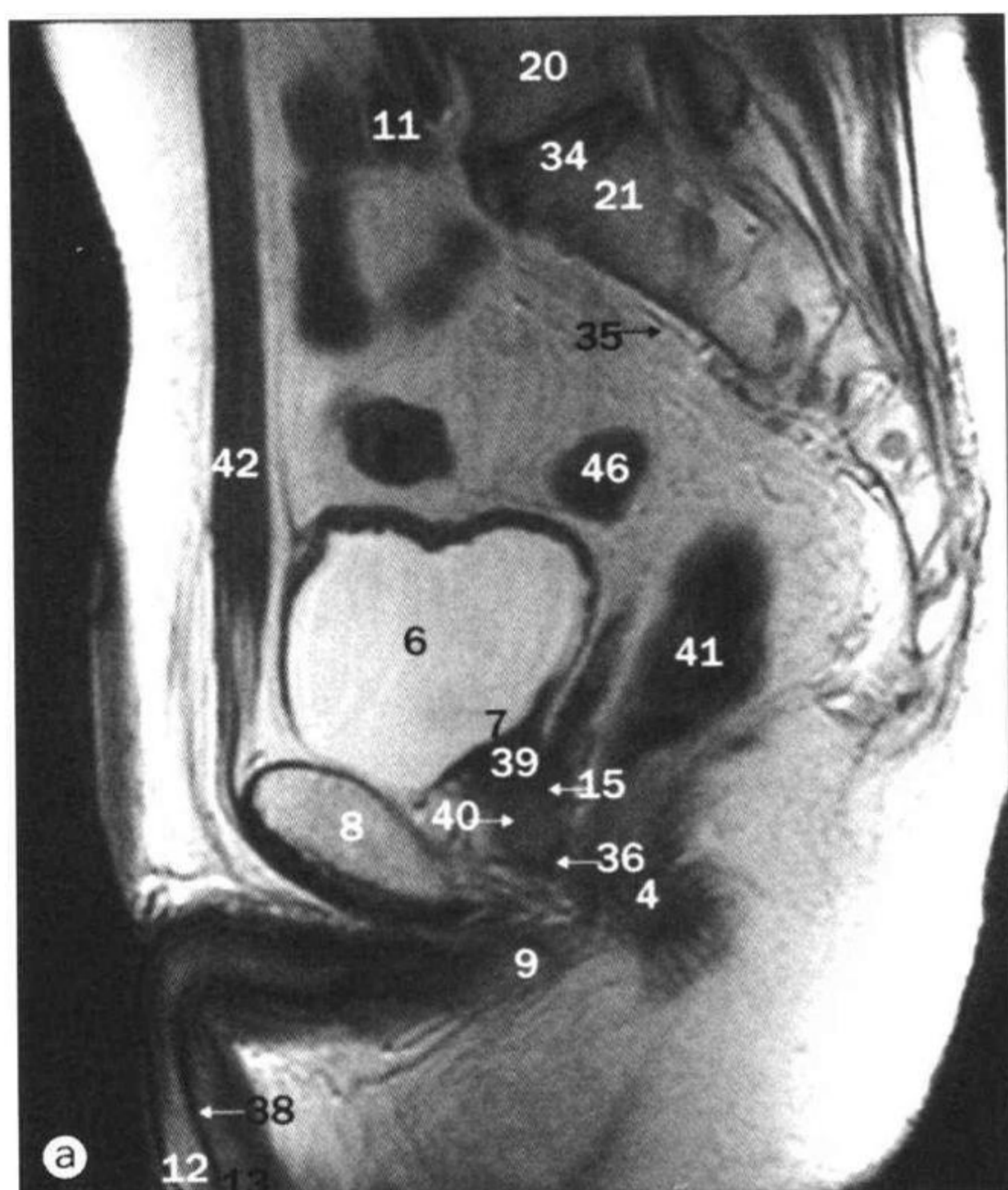
- 32 骶骨 sacrum
- 33 缝匠肌 sartorius muscle
- 34 乙状结肠 sigmoid colon
- 35 臀上动静脉 superior gluteal artery and vein
- 36 阔筋膜张肌 tensor fasciae latae muscle
- 37 末端回肠 terminal ileum
- 38 硬脊膜囊 thecal sac
- 39 腹横肌 transversus abdominis muscle
- 40 脐 umbilicus
- 41 输尿管 ureter
- 42 骶前孔 ventral sacral foramen



a~i. 男性盆部, 轴位 CT。

- | | | |
|-------------------------------------|---|--------------------------------------|
| 1 髋臼顶 acetabular roof | 24 股薄肌 gracilis muscle | 45 股深动脉 profunda femoris artery |
| 2 髋臼 acetabulum | 25 股骨大转子 greater trochanter of femur | 46 前列腺 prostate |
| 3 短收肌 abductor brevis muscle | 26 股骨头 head of femur | 47 耻骨联合 pubic symphysis |
| 4 长收肌 abductor longus muscle | 27 髂腰肌 iliopsoas muscle | 48 股四头肌 quadratus femoris muscle |
| 5 大收肌 abductor magnus muscle | 28 髂胫束 iliotibial tract | 49 直肠 rectum |
| 6 肛管 anal canal | 29 臀下动静脉 inferior gluteal artery and vein | 50 腹直肌 rectus abdominis muscle |
| 7 股二头肌 biceps femoris muscle | 30 耻骨下支 inferior ramus of pubis | 51 股直肌 rectus femoris muscle |
| 8 膀胱 bladder | 31 阴部内动静脉 internal pudendal artery and vein | 52 骶棘韧带 sacrospinous ligament |
| 9 耻骨体 body of pubis | 32 坐骨棘 ischial spine | 53 骶骨 sacrum |
| 10 尿道球(阴茎球) bulb of urethra (penis) | 33 坐骨肛门窝 ischio-anal fossa | 54 缝匠肌 sartorius muscle |
| 11 尾骨 coccyx | 34 坐骨 ischium | 55 坐骨神经 sciatic nerve |
| 12 海绵体 corpus cavernosum | 35 股骨小转子 lesser trochanter of femur | 56 半膜肌 semimembranosus muscle |
| 13 海绵体脚 curs of corpus cavernosum | 36 肛提肌 levator ani muscle | 57 精囊 seminal vesicle |
| 14 附睾 epididymis | 37 股骨头韧带 ligament of head of femur | 58 半腱肌 semitendinosus muscle |
| 15 肛门外括约肌 external anal sphincter | 38 尿道膜部 membranous urethra | 59 乙状结肠 sigmoid colon |
| 16 髂外动脉 external iliac artery | 39 股骨颈 neck of femur | 60 精索 spermatic cord |
| 17 髂外静脉 external iliac vein | 40 闭孔动静脉 obturator artery and vein | 61 股浅动脉 superficial femoral artery |
| 18 股动脉 femoral artery | 41 闭孔外肌 obturator externus muscle | 62 坐骨上支 superior ramus of pubis |
| 19 股静脉 femoral vein | 42 闭孔内肌 obturator internus muscle | 63 阔筋膜张肌 tensor fasciae latae muscle |
| 20 孖肌 gemellus muscle | 43 耻骨肌 pectineus muscle | 64 睾丸 testis |
| 21 臀大肌 gluteus maximus muscle | 44 梨状肌 piriformis muscle | 65 股中间肌 vastus intermedius muscle |
| 22 臀中肌 gluteus medius muscle | | 66 股外侧肌 vastus lateralis muscle |
| 23 臀小肌 gluteus minimus muscle | | |



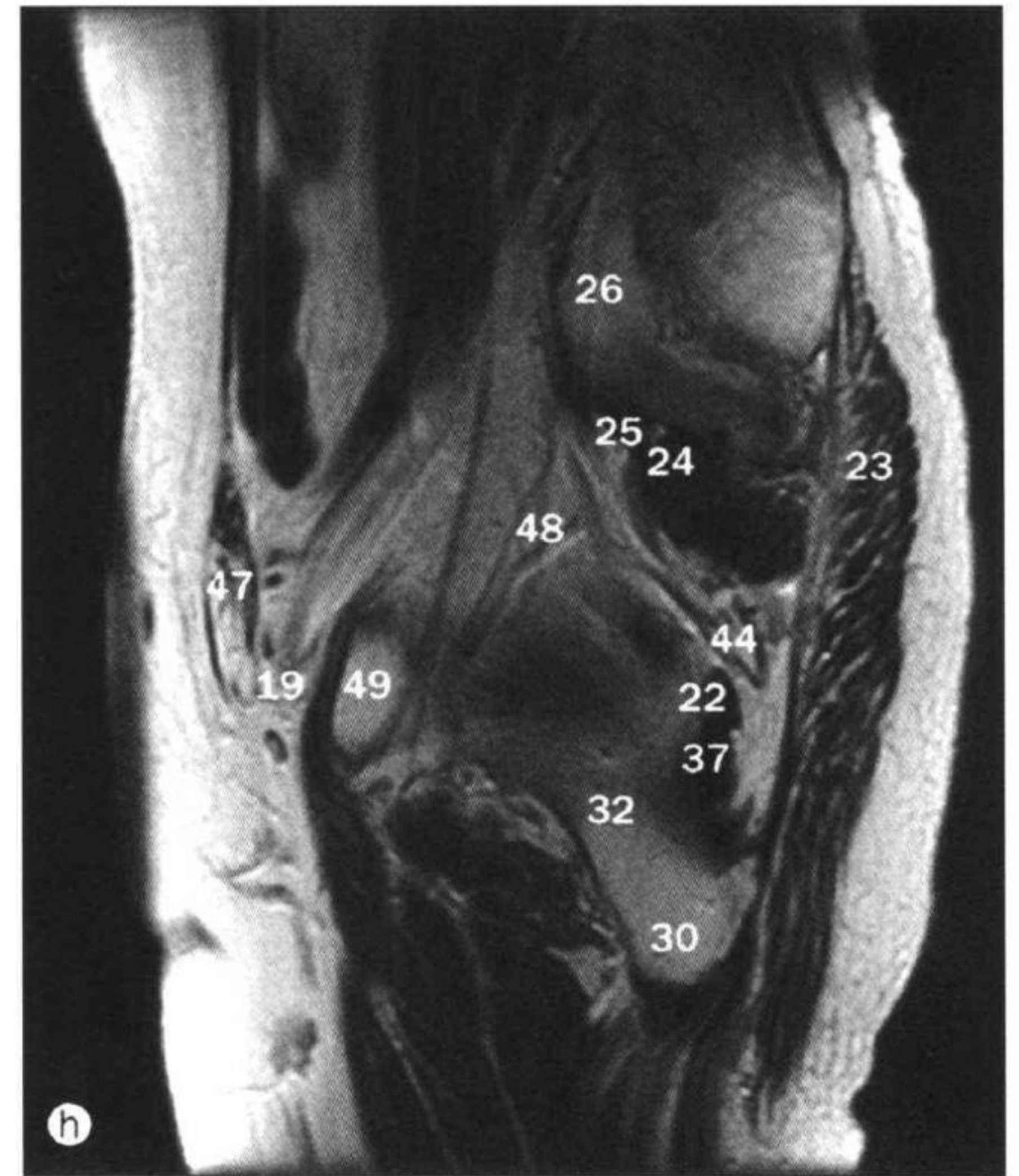
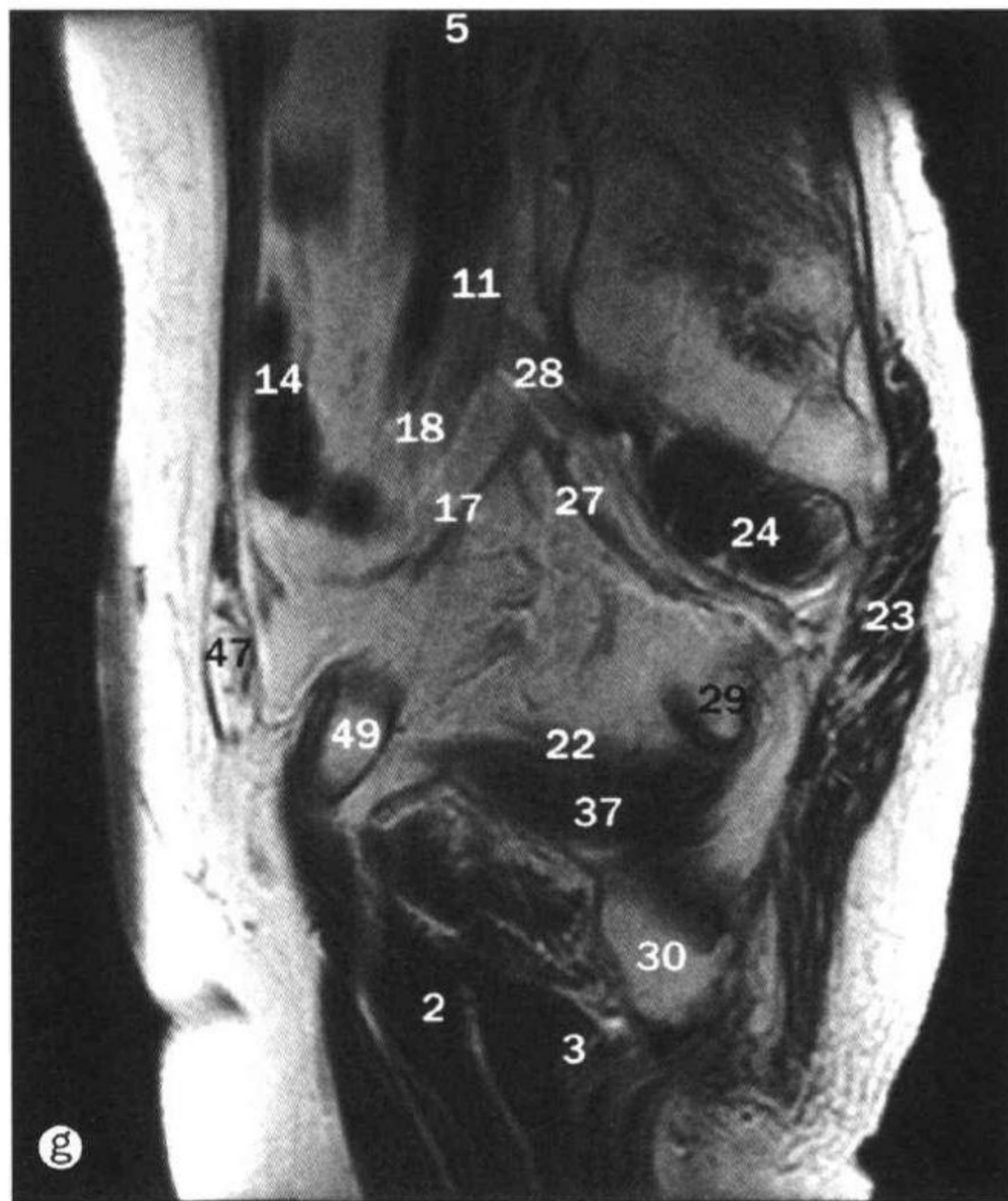


a~h. 男性盆部，矢状位 MRI。

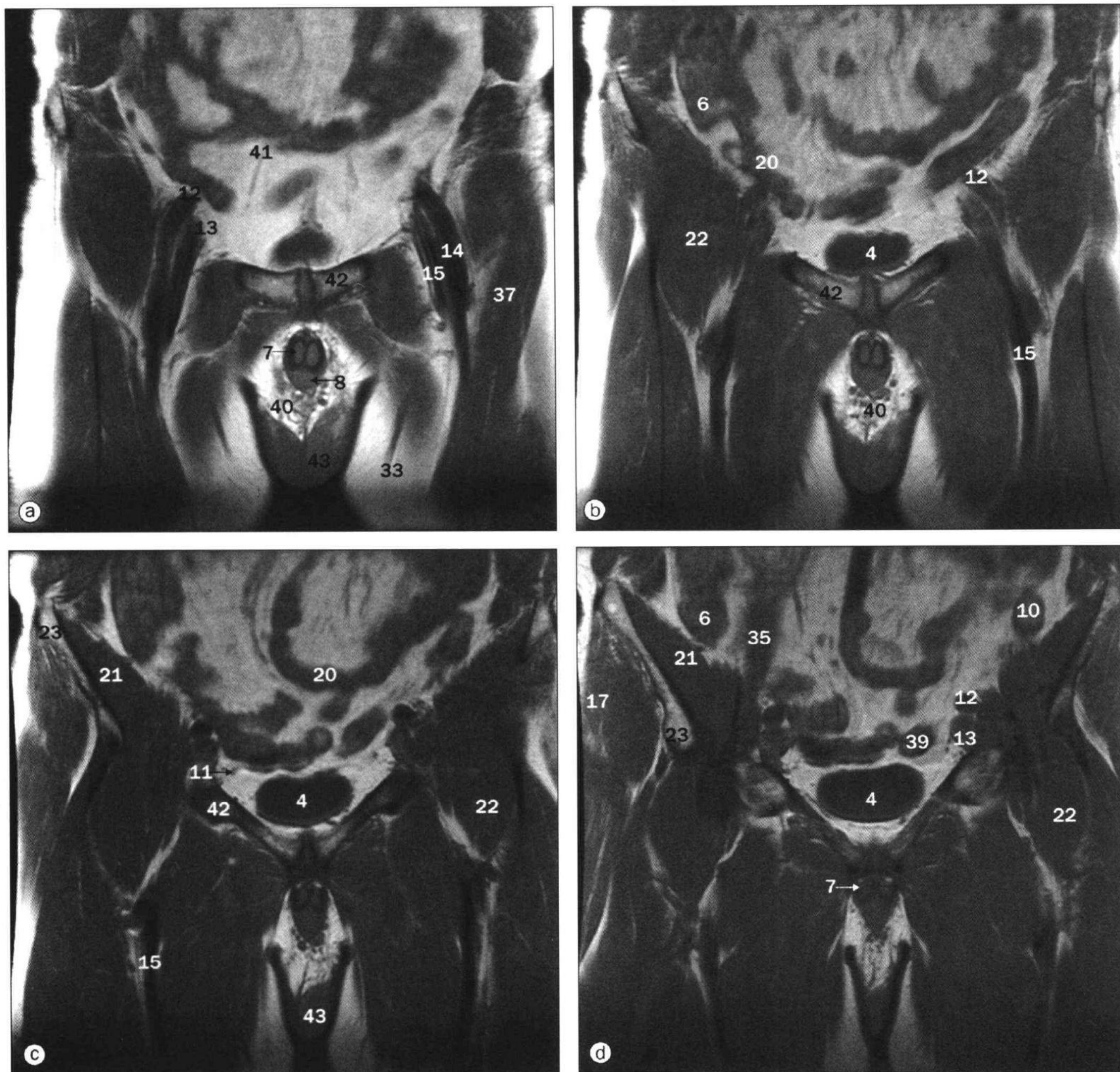
1 短收肌 adductor brevis muscle
2 长收肌 adductor longus muscle
3 大收肌 adductor magnus muscle
4 肛管 anal canal
5 主动脉 aorta
6 膀胱 bladder
7 膀胱颈 bladder neck
8 耻骨体 body of pubis

9 尿道球(阴茎球) bulb of penis (urethra)
10 尾骨 coccyx
11 髂总静脉 common iliac vein
12 海绵体 corpus cavernosum
13 尿道海绵体 corpus spongiosum
14 升结肠 descending colon
15 射精管 ejaculatory duct
16 附睾 epididymis

17 髂外动脉 external iliac artery
18 髂外静脉 external iliac vein
19 股动脉 femoral artery
20 第5腰椎 fifth lumbar vertebra
21 第1骶椎 first sacral segment
22 孖肌 gemellus muscle
23 臀大肌 gluteus maximus muscle
24 髂肌 iliacus muscle



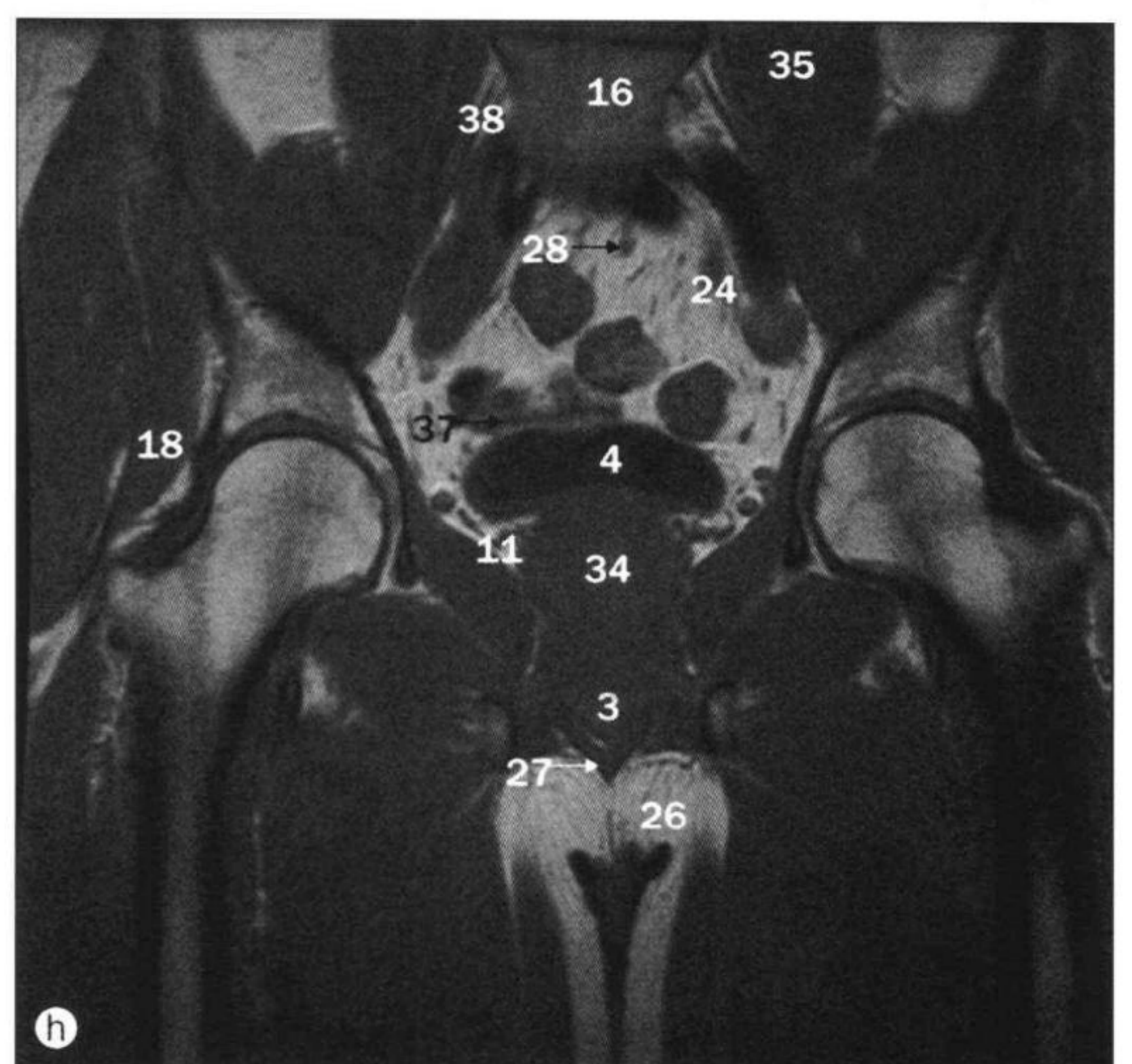
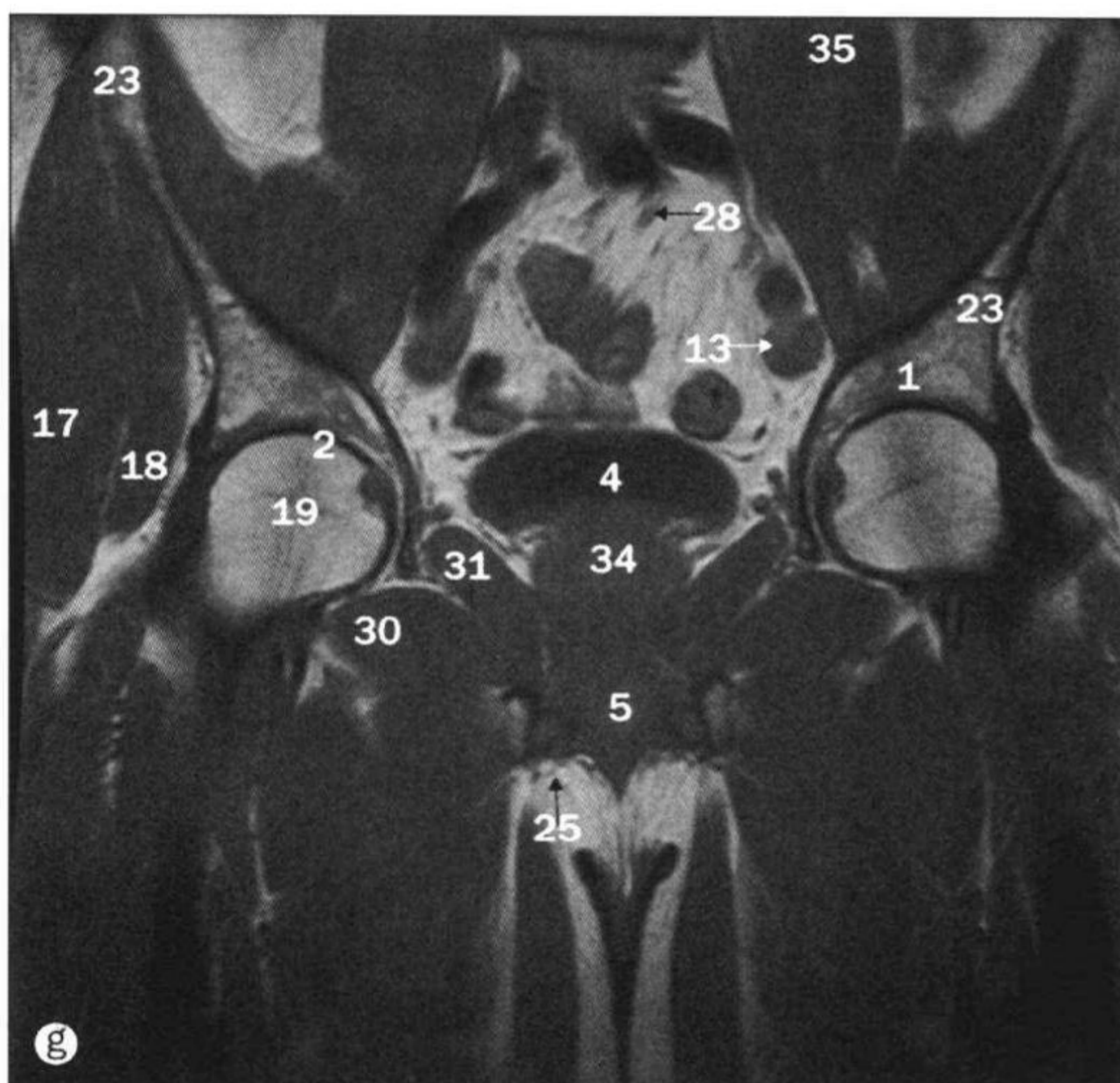
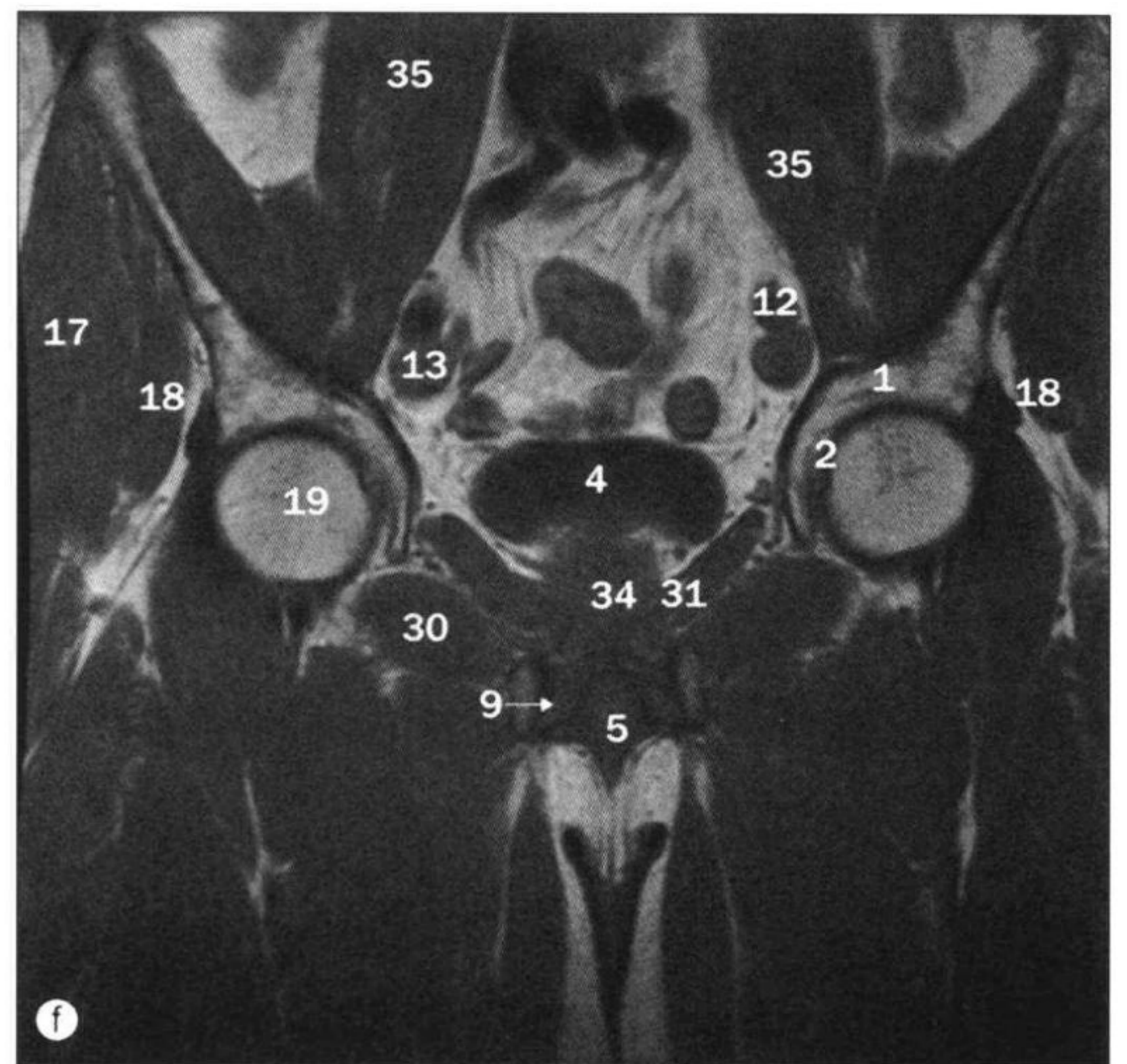
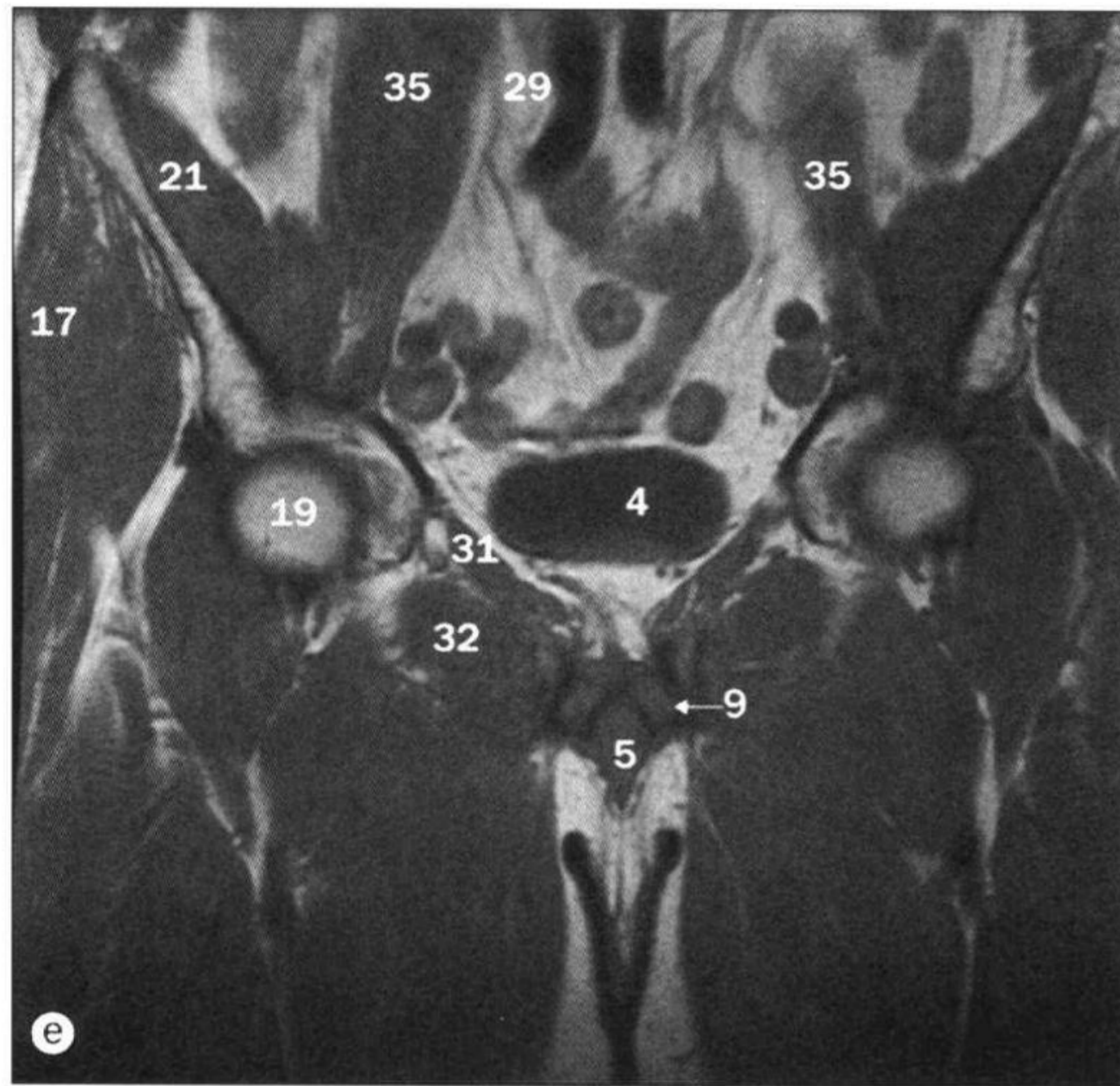
- | | | |
|-------------------------------|-----------------------------------|---|
| 25 髂腰肌 iliopsoas muscle | 34 腰骶椎间盘 lumbosacral disc | 43 骶棘韧带 sacrospinous ligament |
| 26 髂肌 ilium | 35 骶正中动脉 median sacral artery | 44 坐骨神经 sciatic nerve |
| 27 髂内动脉 internal iliac artery | 36 尿道膜部 membranous urethra | 45 精囊 seminal vesicle |
| 28 髂内静脉 internal iliac vein | 37 闭孔内肌 obturator internus muscle | 46 乙状结肠 sigmoid colon |
| 29 坐骨棘 ischial spine | 38 尿道海绵体部 penile urethra | 47 精索 spermatic cord |
| 30 坐骨结节 ischial tuberosity | 39 前列腺 prostate | 48 臀上动静脉 superior gluteal artery and vein |
| 31 坐骨肛门窝 ischio-anal fossa | 40 尿道前列腺部 prostatic urethra | 49 耻骨上支 superior ramus of pubis |
| 32 坐骨 ischium | 41 直肠 rectum | 50 硬脊膜囊 thecal sac |
| 33 肛提肌 levator ani muscle | 42 腹直肌 rectus abdominis muscle | |



a~h. 男性盆部，冠状位MRI。

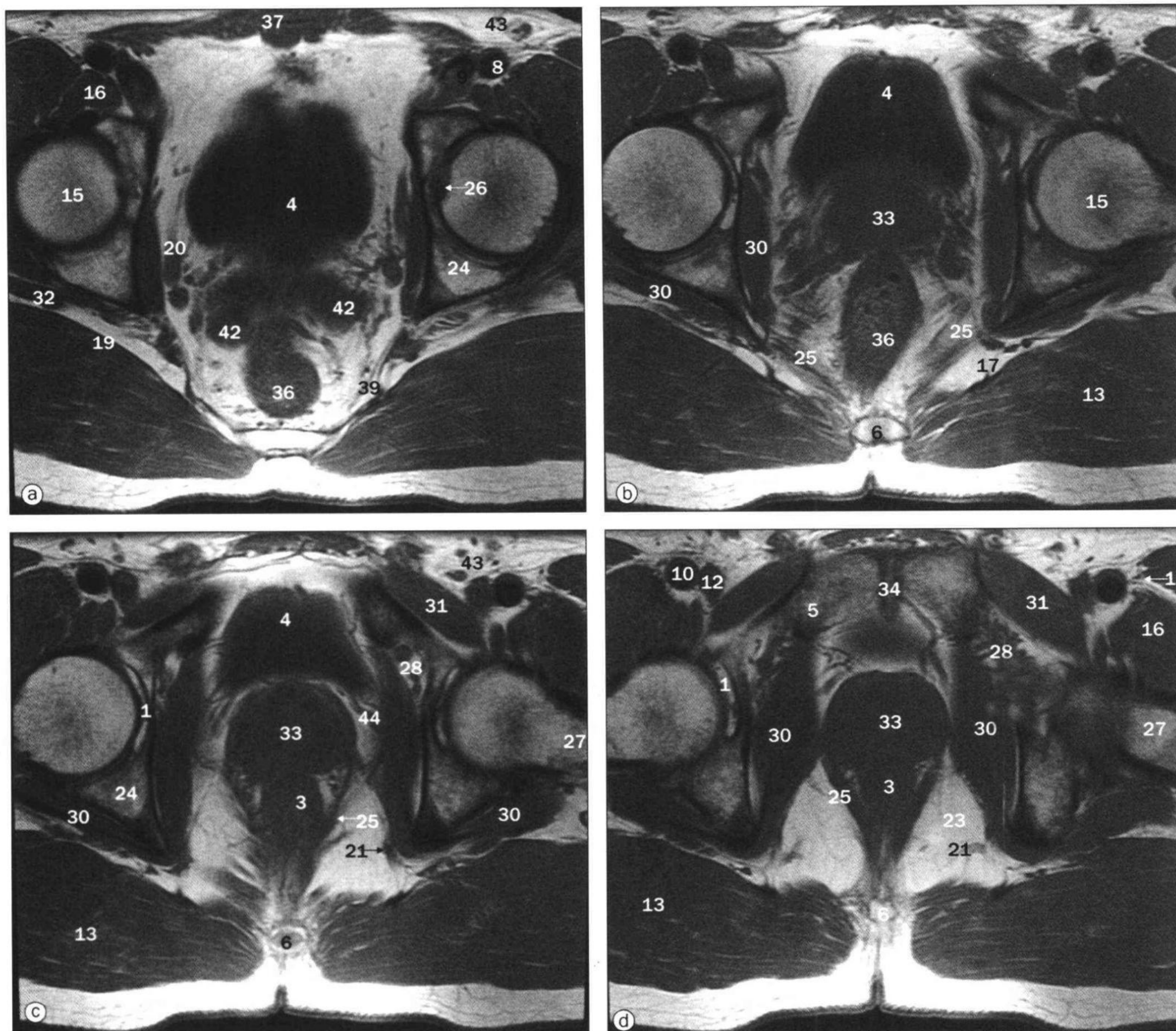
- 1 髌臼顶 acetabular roof
- 2 髌臼 acetabulum
- 3 肛管 anal canal
- 4 膀胱 bladder
- 5 尿道球 (阴茎球) bulb of urethra(penis)
- 6 盲肠 caecum
- 7 海绵体 corpus cavernosum
- 8 尿道海绵体 corpus spongiosum
- 9 海绵体脚 crus of corpus cavernosum
- 10 升结肠 descending colon
- 11 输精管 ductus deferens (vas deferens)

- 12 髂外动脉 external iliac artery
- 13 髂外静脉 external iliac vein
- 14 股动脉 femoral artery
- 15 股静脉 femoral vein
- 16 第5腰椎 fifth lumbar vertebra
- 17 臀中肌 gluteus medius muscle
- 18 臀小肌 gluteus minimus muscle
- 19 股骨头 head of femur
- 20 回肠袢 ileal loop
- 21 髂肌 iliacus muscle
- 22 髂腰肌 iliopsoas muscle



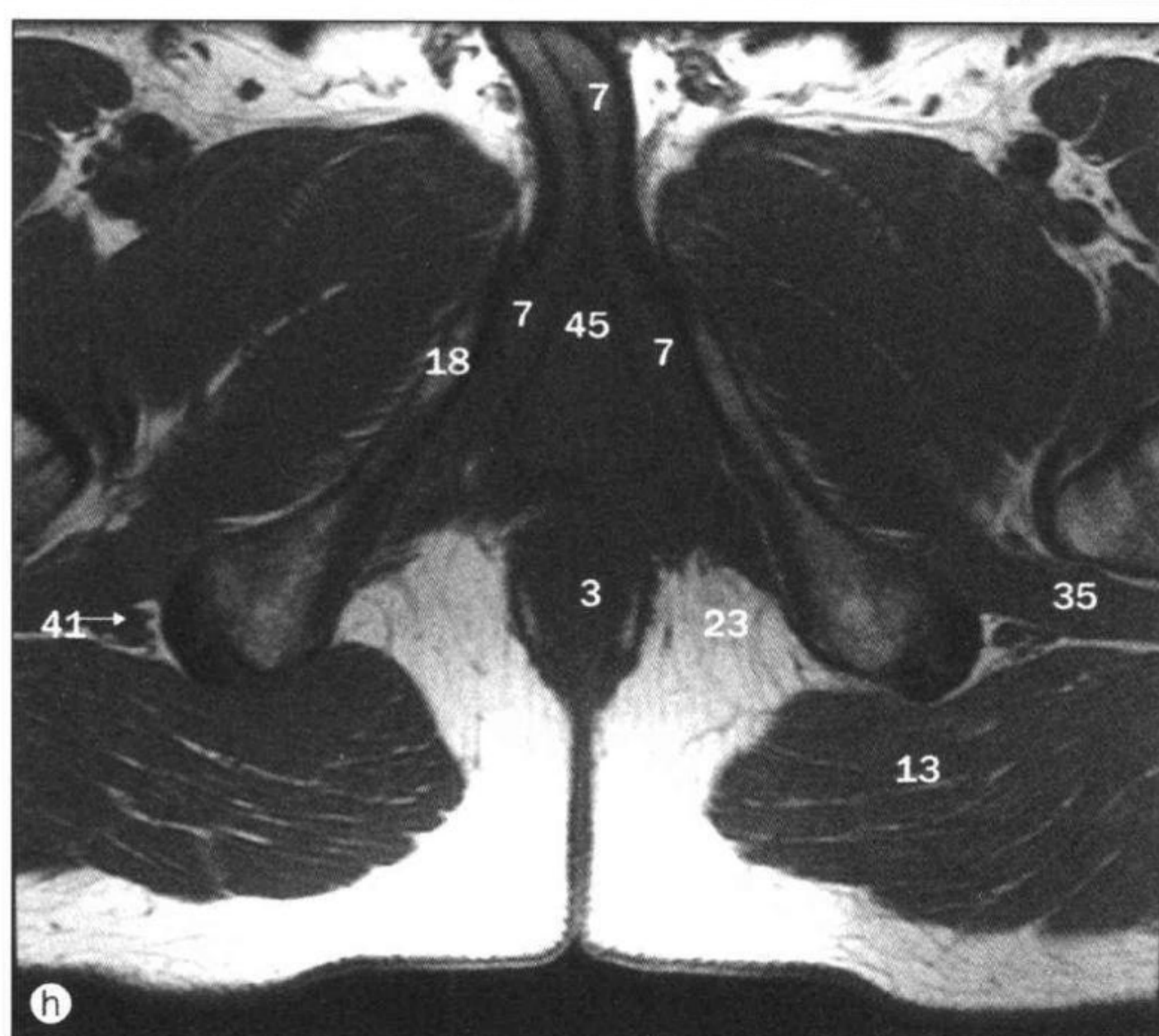
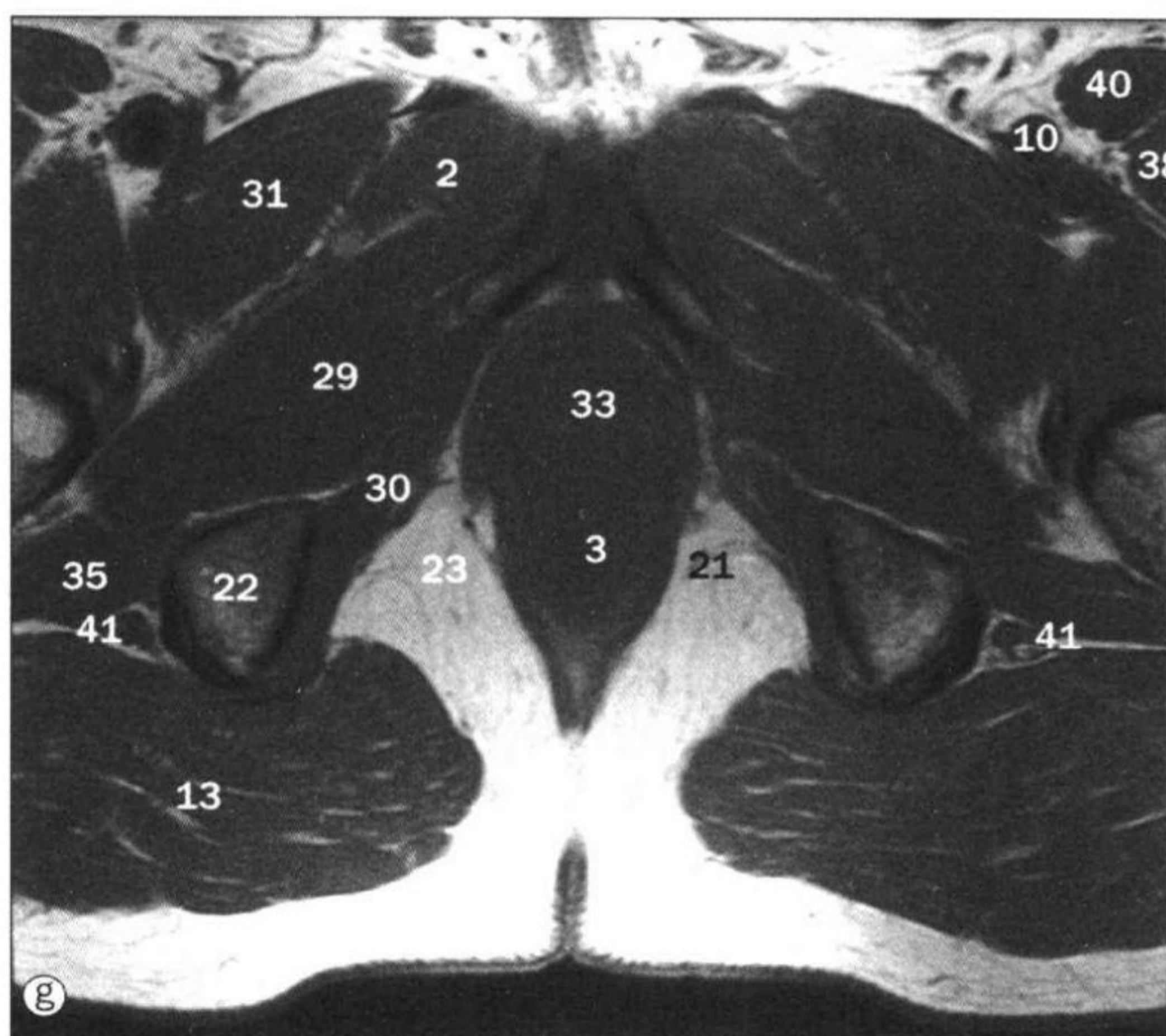
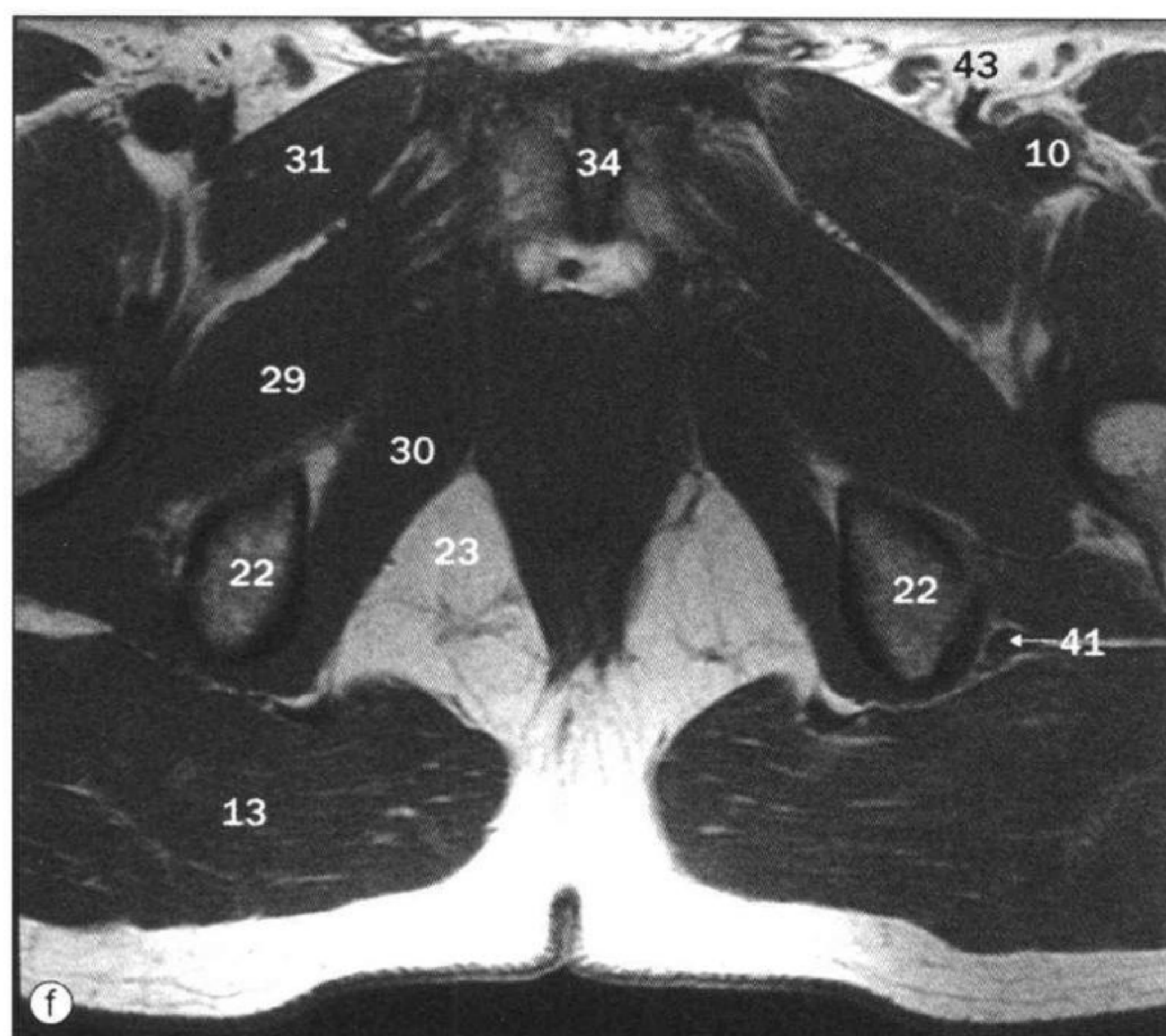
- 23 髌骨 ilium
- 24 臀下动静脉 inferior gluteal artery and vein
- 25 阴部内动静脉 internal pudendal artery and vein
- 26 坐骨肛门窝 ischio-anal fossa
- 27 肛提肌 levator ani muscle
- 28 骶正中动脉 median sacral artery
- 29 肠系膜脂肪 mesenteric fat
- 30 闭孔外肌 obturator externus muscle
- 31 闭孔内肌 obturator internus muscle
- 32 耻骨肌 pectineus muscle
- 33 股深动脉 profunda femoris artery

- 34 前列腺 prostate
- 35 腰大肌 psoas muscle
- 36 直肠 rectum
- 37 缝匠肌 sartorius muscle
- 38 坐骨神经根 sciatic nerve root
- 39 乙状结肠 sigmoid colon
- 40 精索 spermatic cord
- 41 腹壁浅动脉 superficial epigastric artery
- 42 耻骨上支 superior ramus of pubis
- 43 睾丸 testis



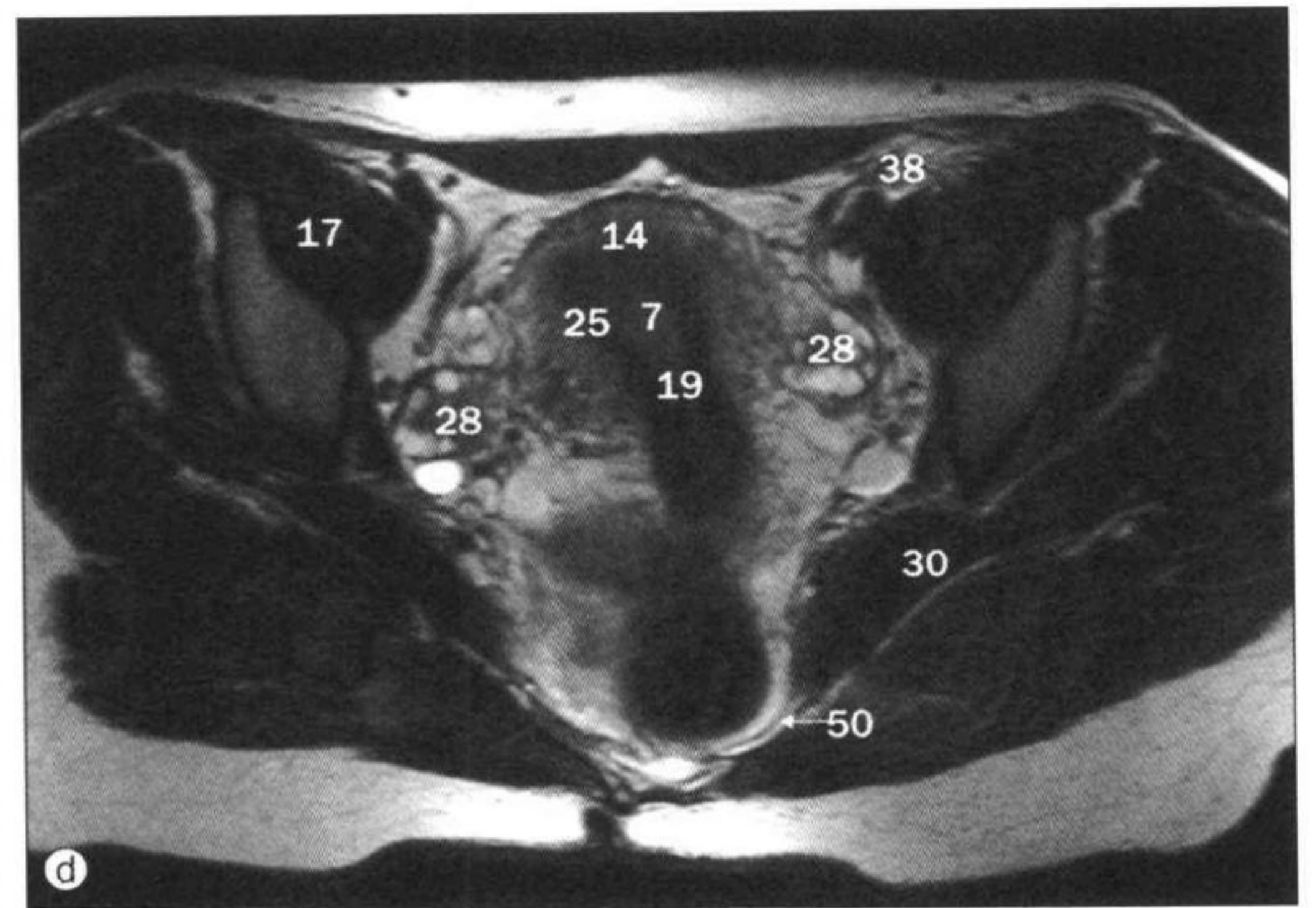
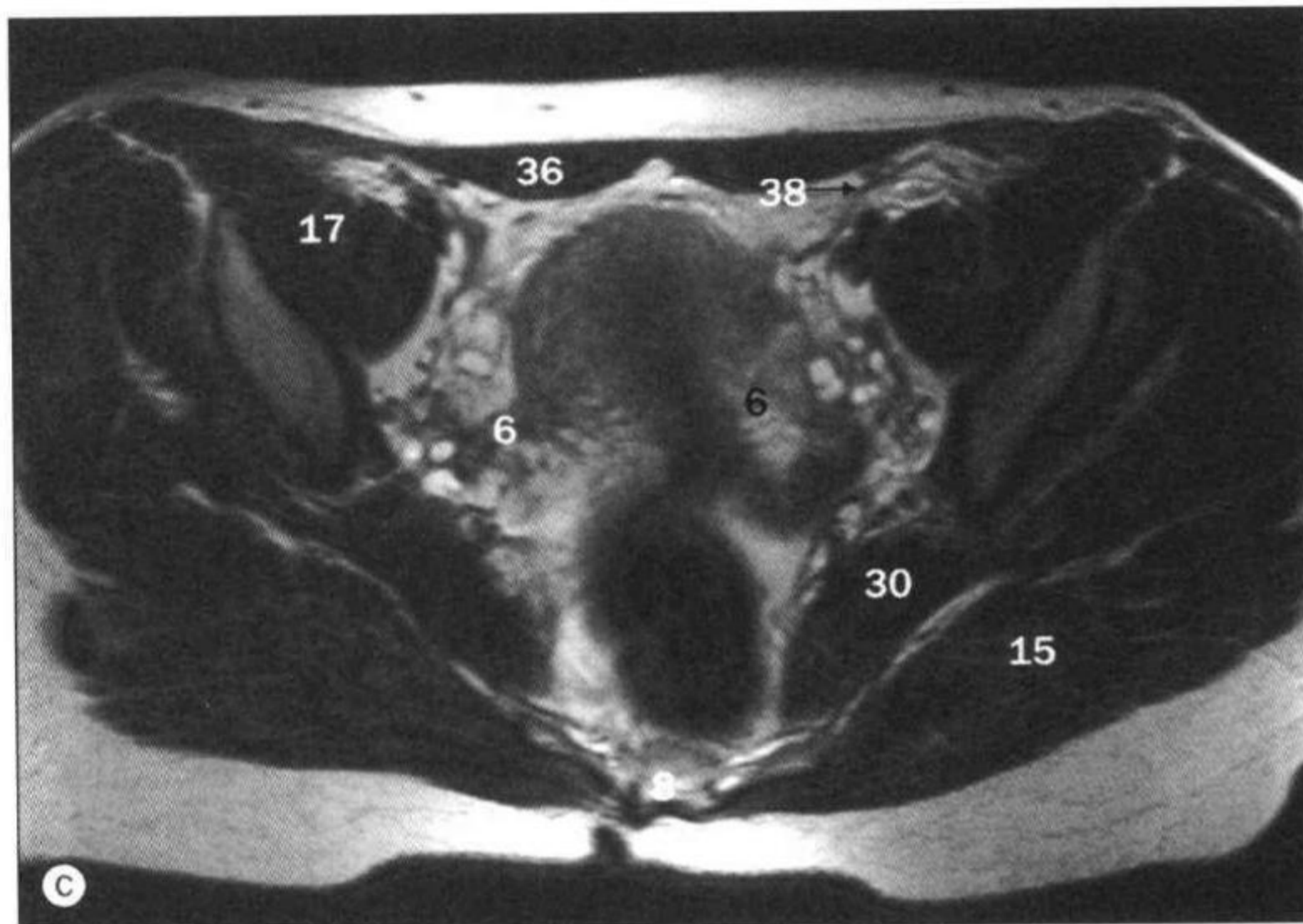
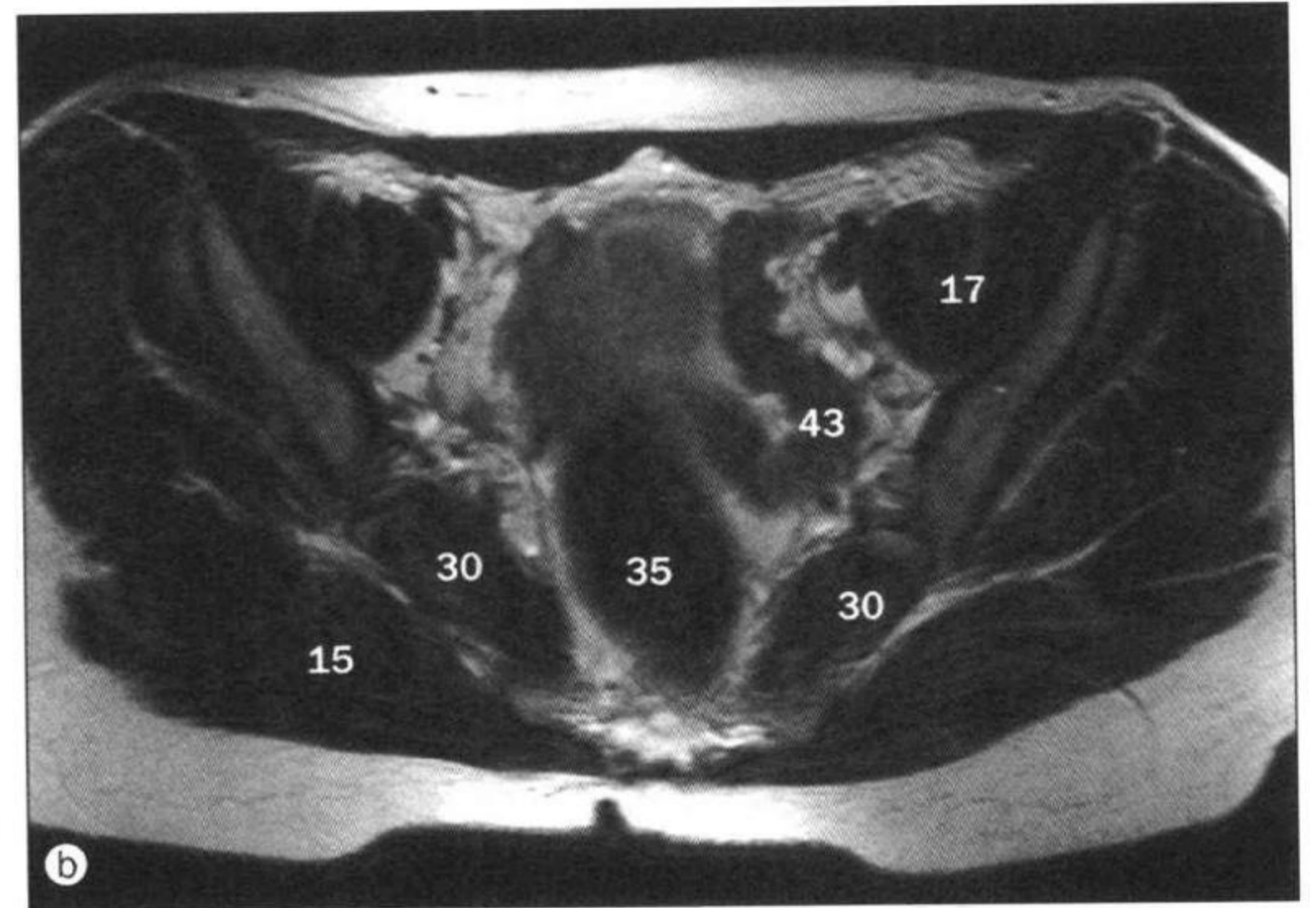
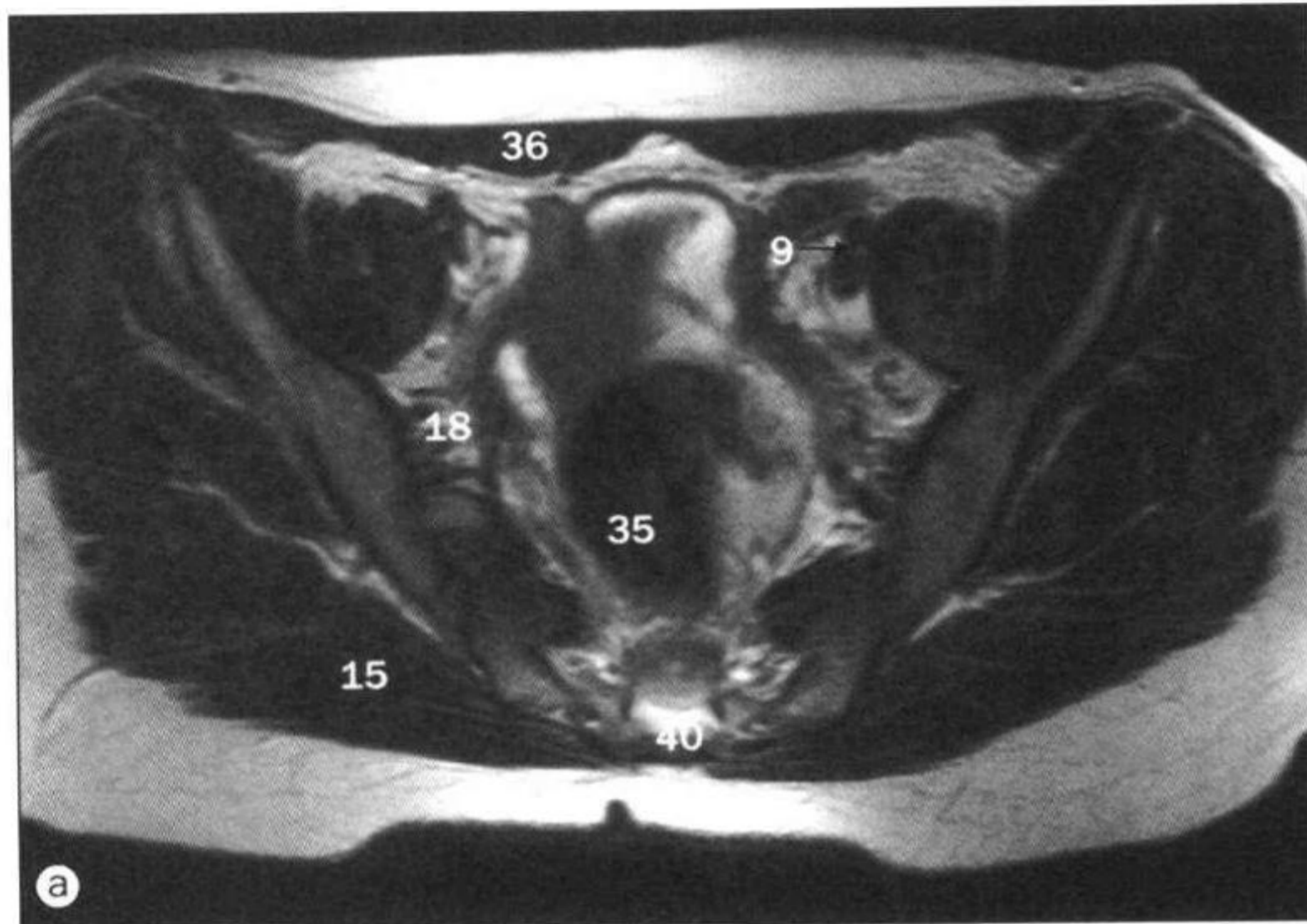
a~h. 男性盆部，轴位 MRI。

- | | |
|-------------------------------|---|
| 1 髋臼 acetabulum | 12 股静脉 femoral vein |
| 2 内收长肌 adductor longus muscle | 13 臀大肌 gluteus maximus muscle |
| 3 肛管 anal canal | 14 股骨大转子 greater trochanter of femur |
| 4 膀胱 bladder | 15 股骨头 head of femur |
| 5 耻骨体 body of pubis | 16 髂腰肌 iliopsoas muscle |
| 6 尾骨 coccyx | 17 臀下动静脉 inferior gluteal artery and vein |
| 7 尿道海绵体 corpus cavernosum | 18 耻骨下支 inferior pubic ramus |
| 8 髂外动脉 external iliac artery | 19 髂内动脉 internal iliac artery |
| 9 髂外静脉 external iliac vein | 20 髂内静脉 internal iliac vein |
| 10 股动脉 femoral artery | 21 阴部内动静脉 internal pudendal artery and vein |
| 11 股神经 femoral nerve | 22 坐骨结节 ischial tuberosity |



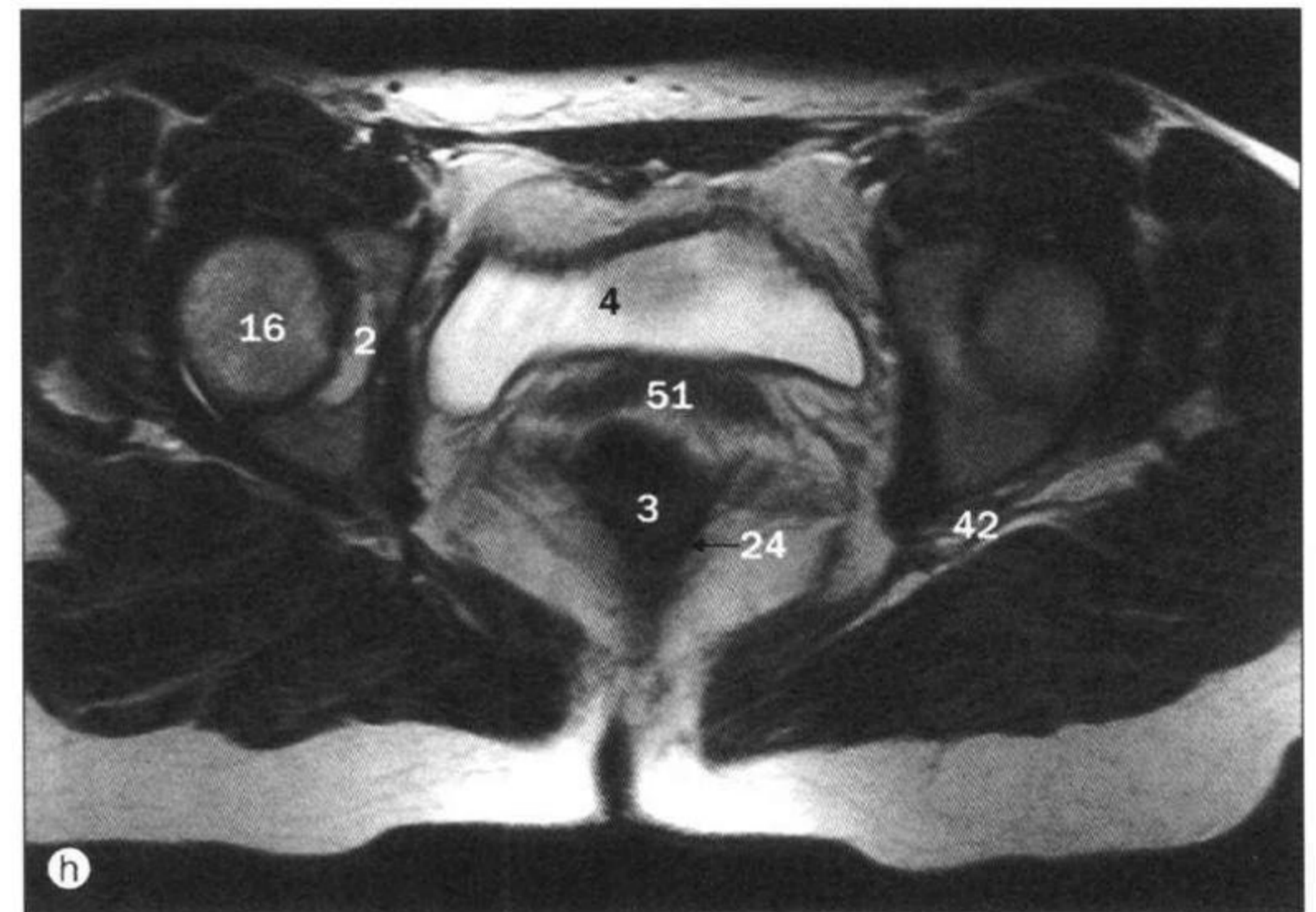
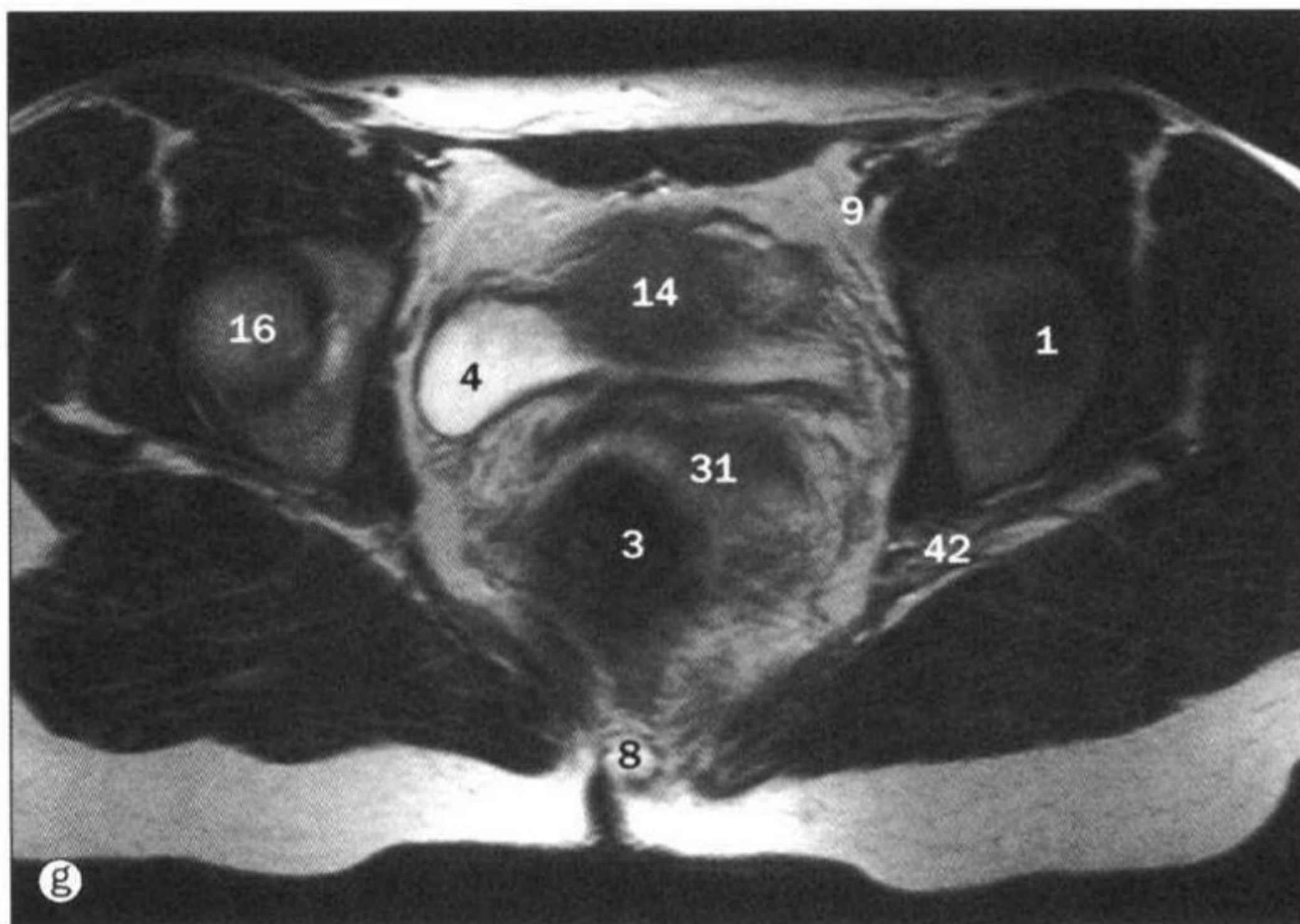
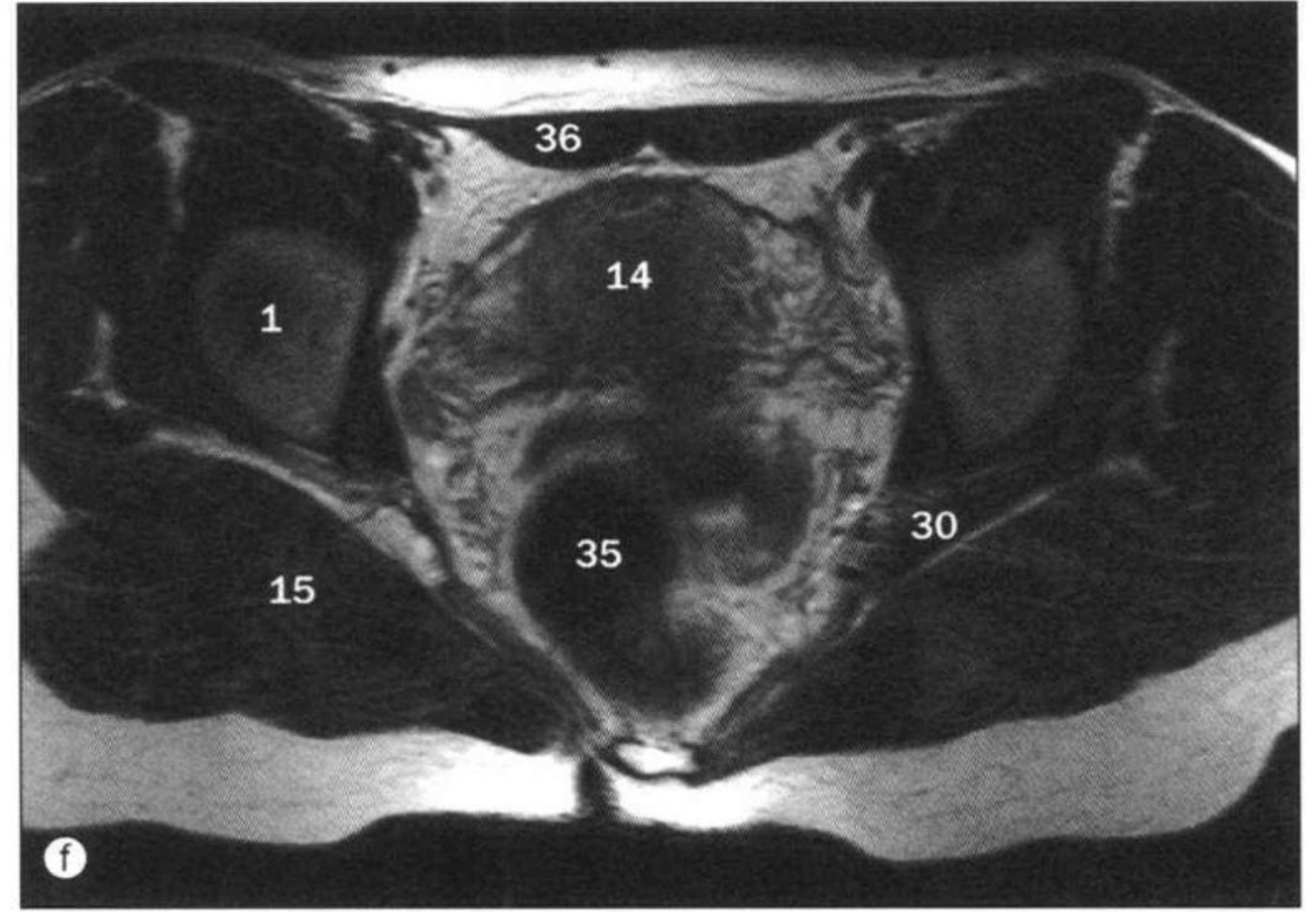
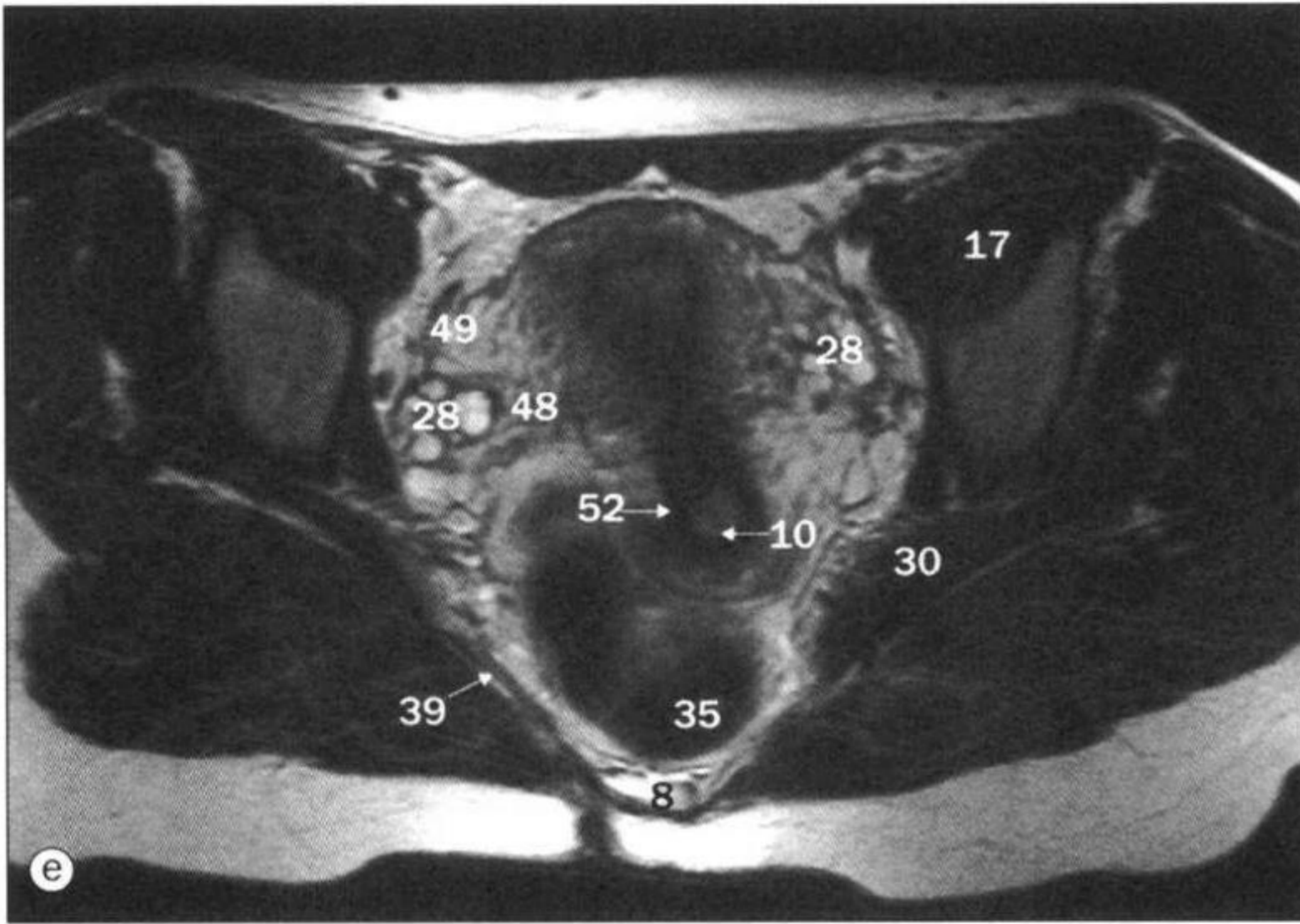
- 23 坐骨肛门窝 ischio-anal fossa
- 24 坐骨 ischium
- 25 肛提肌 levator ani muscle
- 26 股骨头韧带 ligament of head of femur
- 27 股骨颈 neck of femur
- 28 闭孔动静脉 obturator artery and vein
- 29 闭孔外肌 obturator externus muscle
- 30 闭孔内肌 obturator internus muscle
- 31 耻骨肌 pectineus muscle
- 32 梨状肌 piriformis muscle
- 33 前列腺 prostate
- 34 耻骨联合 public symphysis

- 35 股方肌 quadratus femoris muscle
- 36 直肠 rectum
- 37 腹直肌 rectus abdominis muscle
- 38 股直肌 rectus femoris muscle
- 39 骶棘韧带 sacrospinous ligament
- 40 缝匠肌 sartorius muscle
- 41 坐骨神经 sciatic nerve
- 42 精囊 seminal vesicle
- 43 精索 spermatic cord
- 44 输尿管 ureter
- 45 尿道 urethra



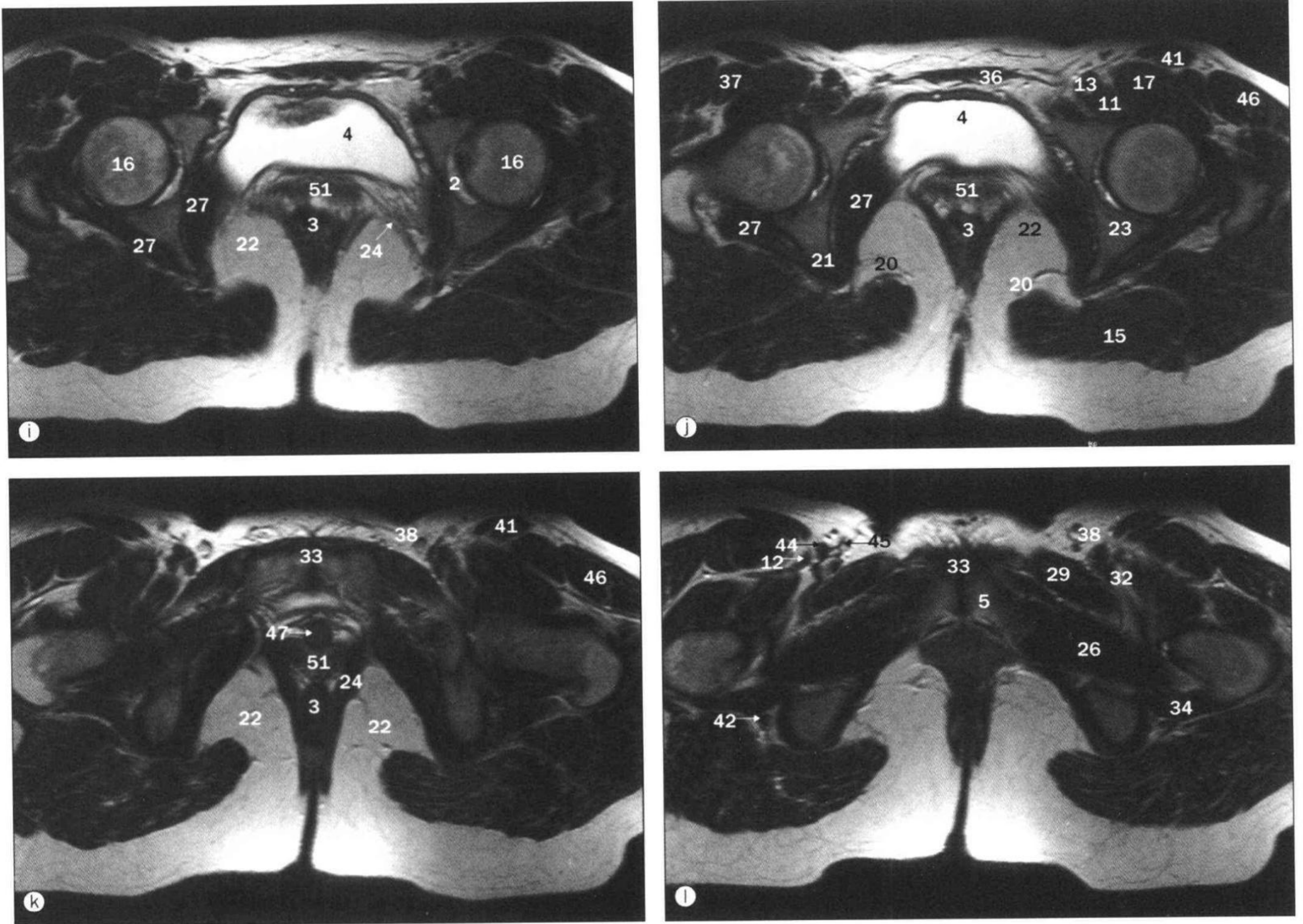
a~h. 女性盆部, 轴位 MRI。

- | | |
|--|---|
| 1 髋臼顶 acetabular roof | 14 子宫底 fundus of uterus |
| 2 髋臼 acetabulum | 15 臀大肌 gluteus maximus muscle |
| 3 肛管 anal canal | 16 股骨头 head of femur |
| 4 膀胱 bladder | 17 髂腰肌 iliopsoas muscle |
| 5 耻骨体 body of pubis | 18 髂内动静脉 internal iliac artery and vein |
| 6 子宫阔韧带 broad ligament of uterus | 19 子宫颈内口 internal os of cervix |
| 7 子宫腔 cavity of uterus | 20 阴部内动静脉 internal pudendal artery and vein |
| 8 尾骨 coccyx | 21 坐骨棘 ischial spine |
| 9 髂外动静脉 external iliac artery and vein | 22 坐骨肛门窝 ischio-anal fossa |
| 10 子宫颈外口 external os of cervix | 23 坐骨 ischium |
| 11 股动脉 femoral artery | 24 肛提肌 levator ani muscle |
| 12 股神经 femoral nerve | 25 子宫肌层 myometrium of uterus |
| 13 股静脉 femoral vein | 26 闭孔外肌 obturator externus muscle |



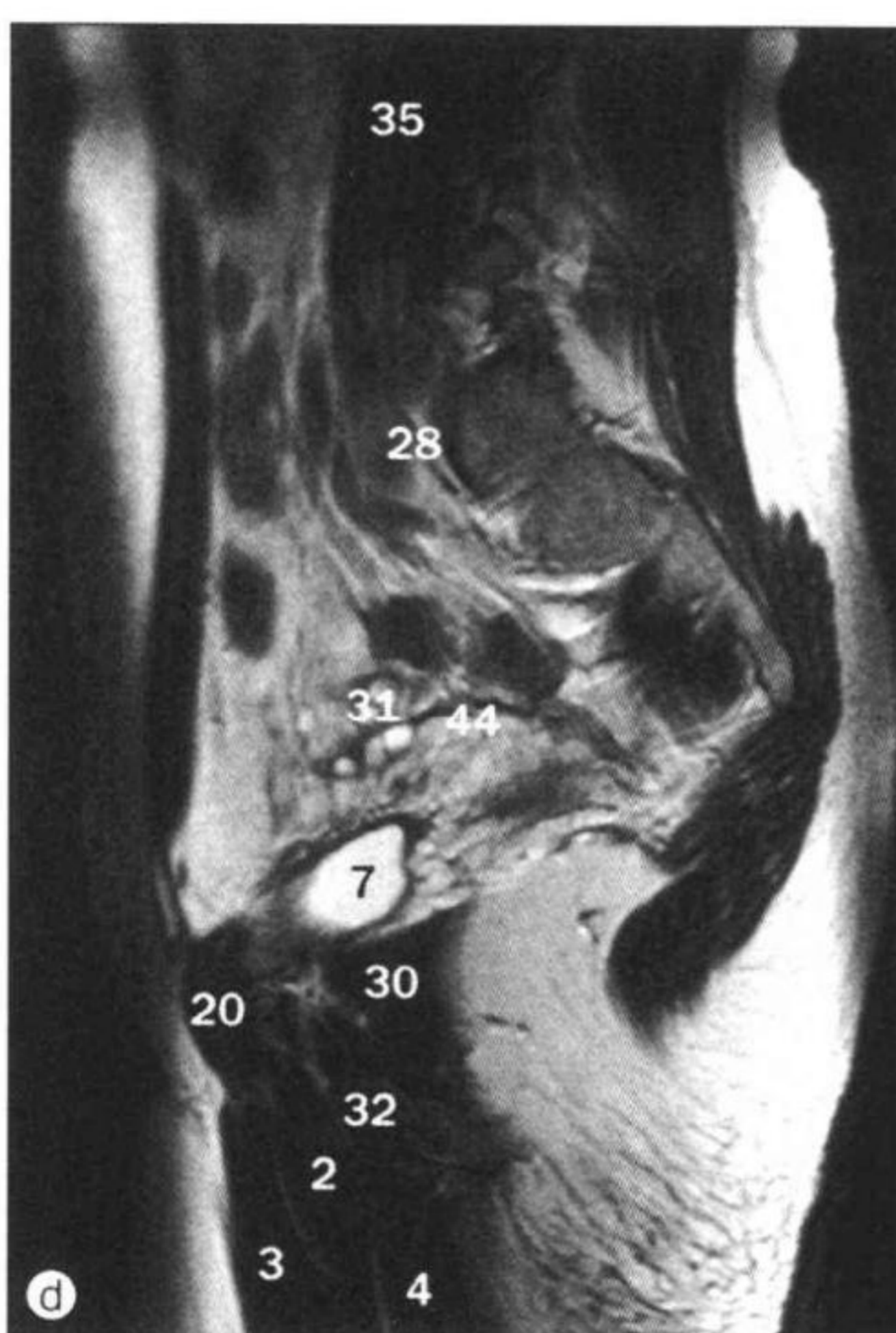
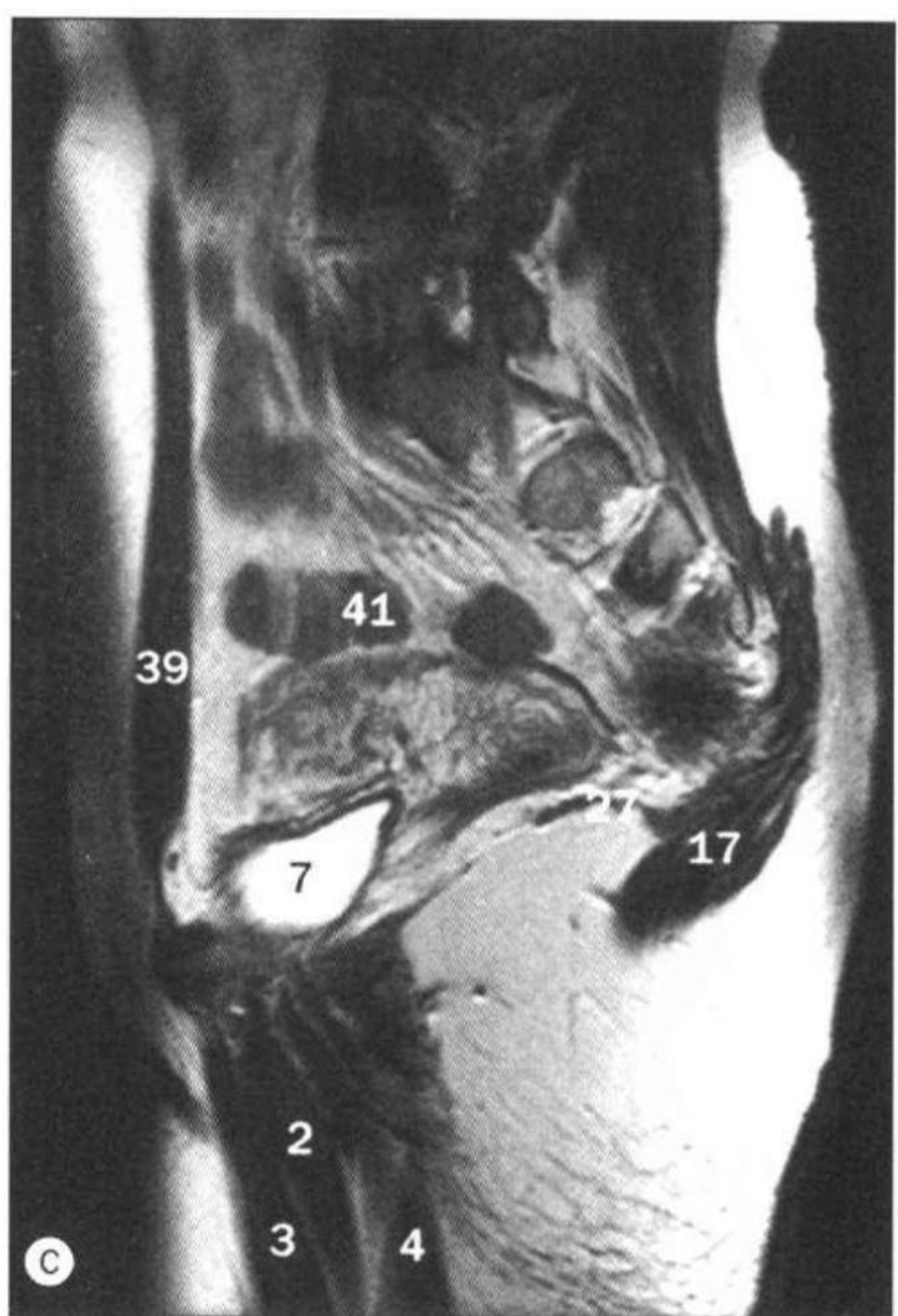
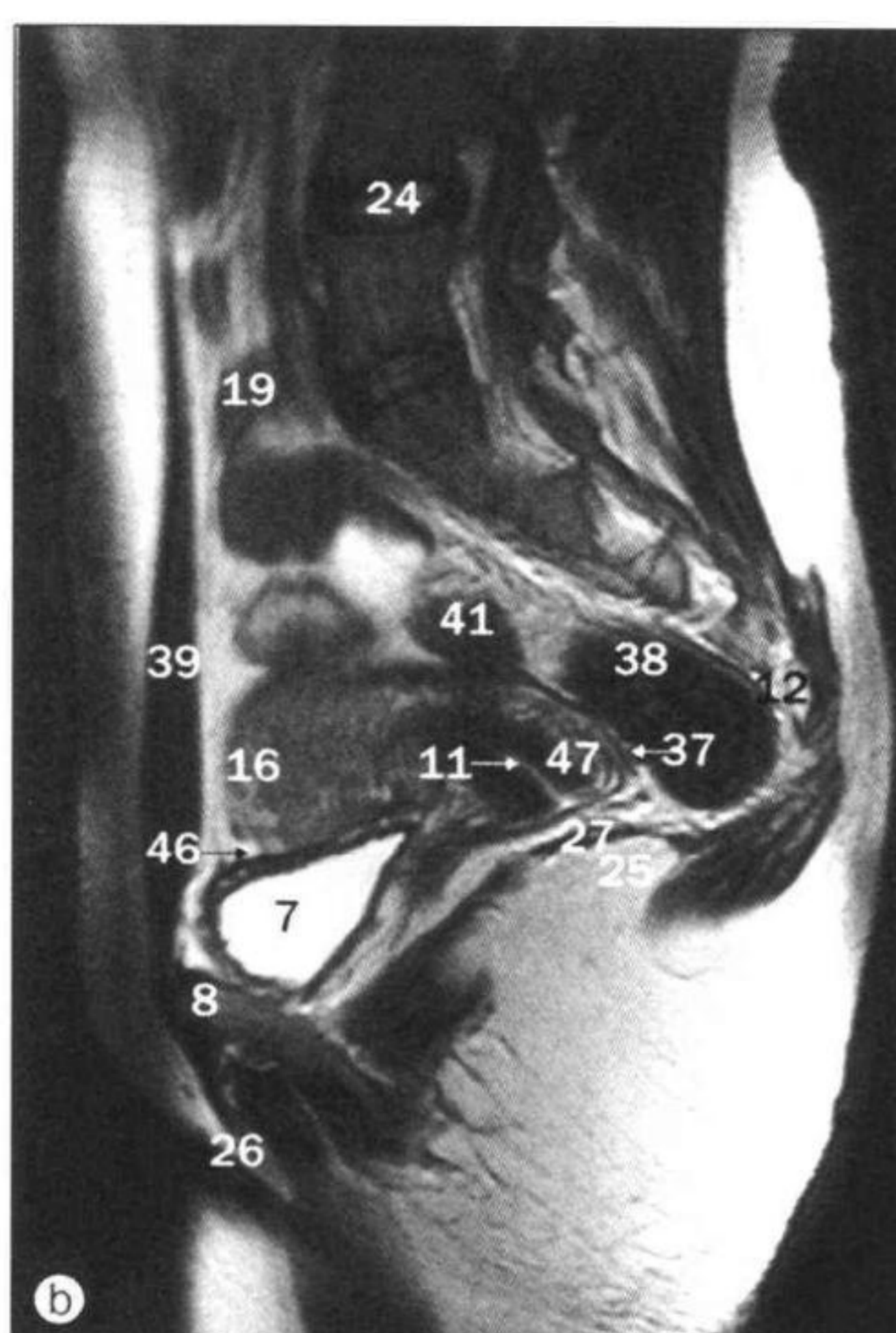
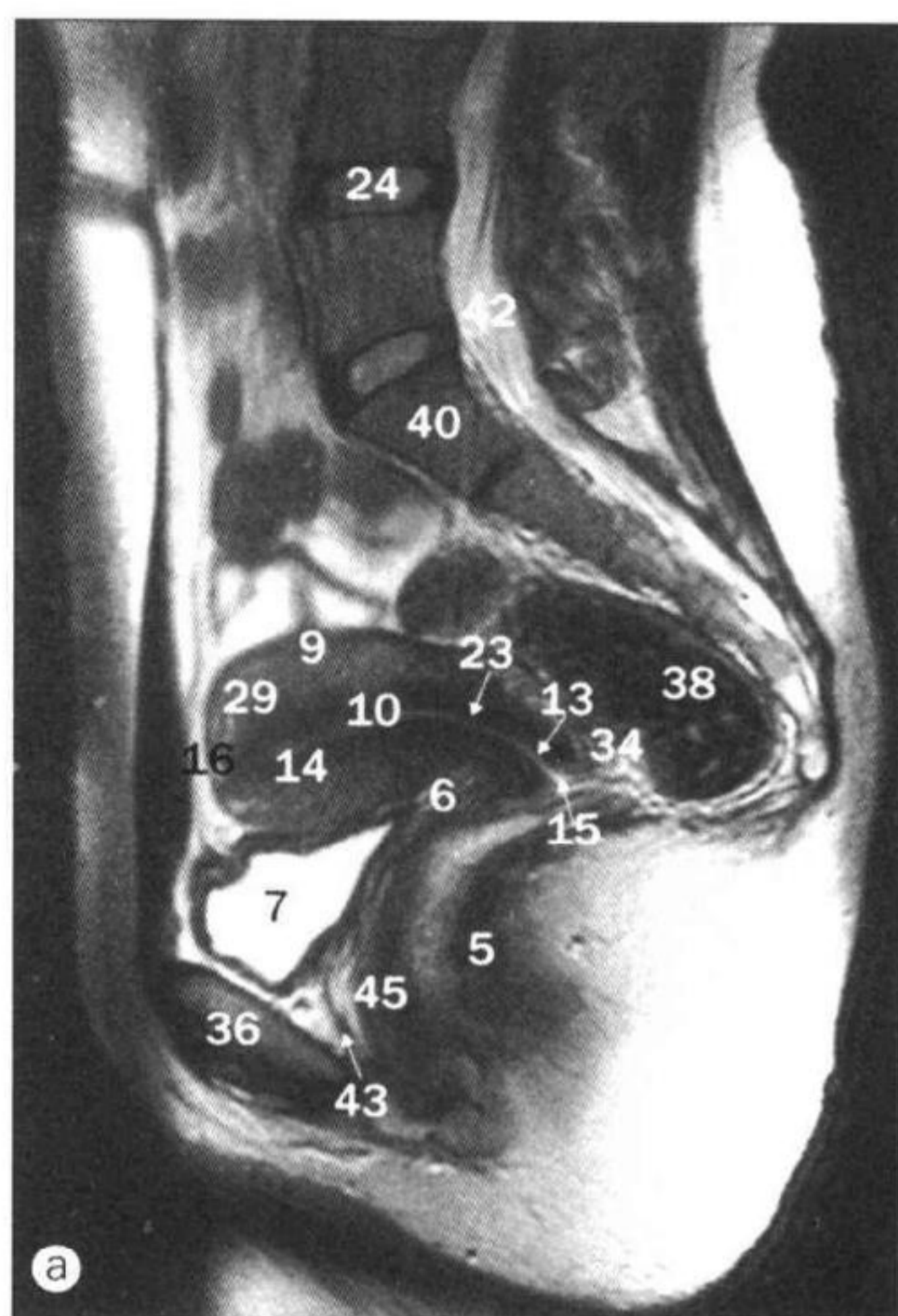
27 闭孔内肌 obturator internus muscle
 28 卵巢 ovary
 29 耻骨肌 pectineus muscle
 30 梨状肌 piriformis muscle
 31 阴道穹后部 posterior fornix of vagina
 32 股深动脉 profunda femoris artery
 33 耻骨联合 public symphysis
 34 股四头肌 quadratus femoris muscle
 35 直肠 rectum
 36 腹直肌 rectus abdominis muscle
 37 股直肌 rectus femoris muscle
 38 圆韧带 round ligament
 39 骶棘韧带 sacrospinous ligament

40 骶骨 sacrum
 41 缝匠肌 sartorius muscle
 42 坐骨神经 sciatic nerve
 43 乙状结肠 sigmoid colon
 44 股浅动脉 superficial femoral artery
 45 股浅静脉 superficial femoral vein
 46 阔筋膜张肌 tensor fasciae latae muscle
 47 尿道 urethra
 48 子宫动脉 uterine artery
 49 输卵管 uterine tube
 50 子宫骶骨韧带 uterosacral ligament
 51 阴道 vagina
 52 子宫颈壁 wall of cervix



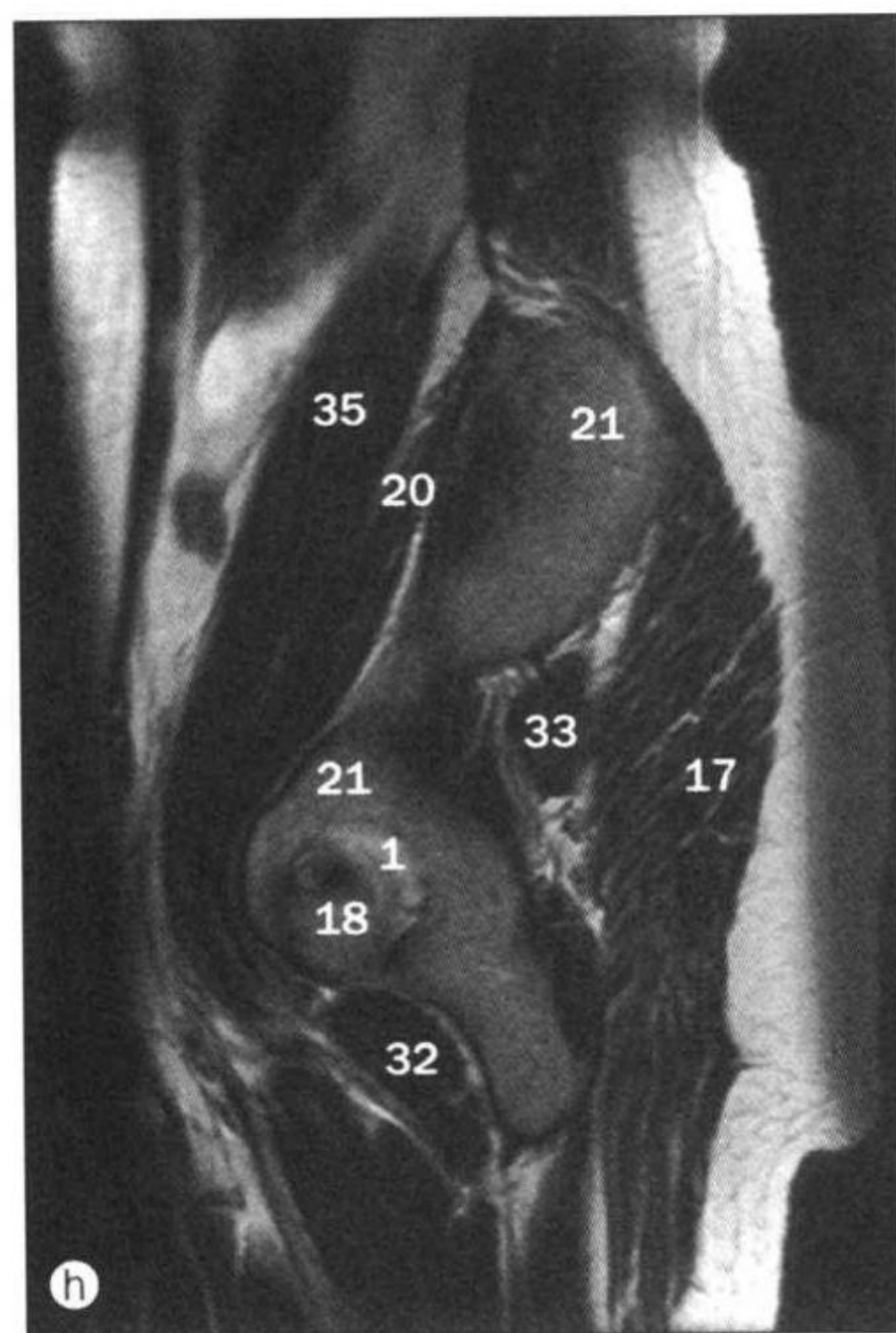
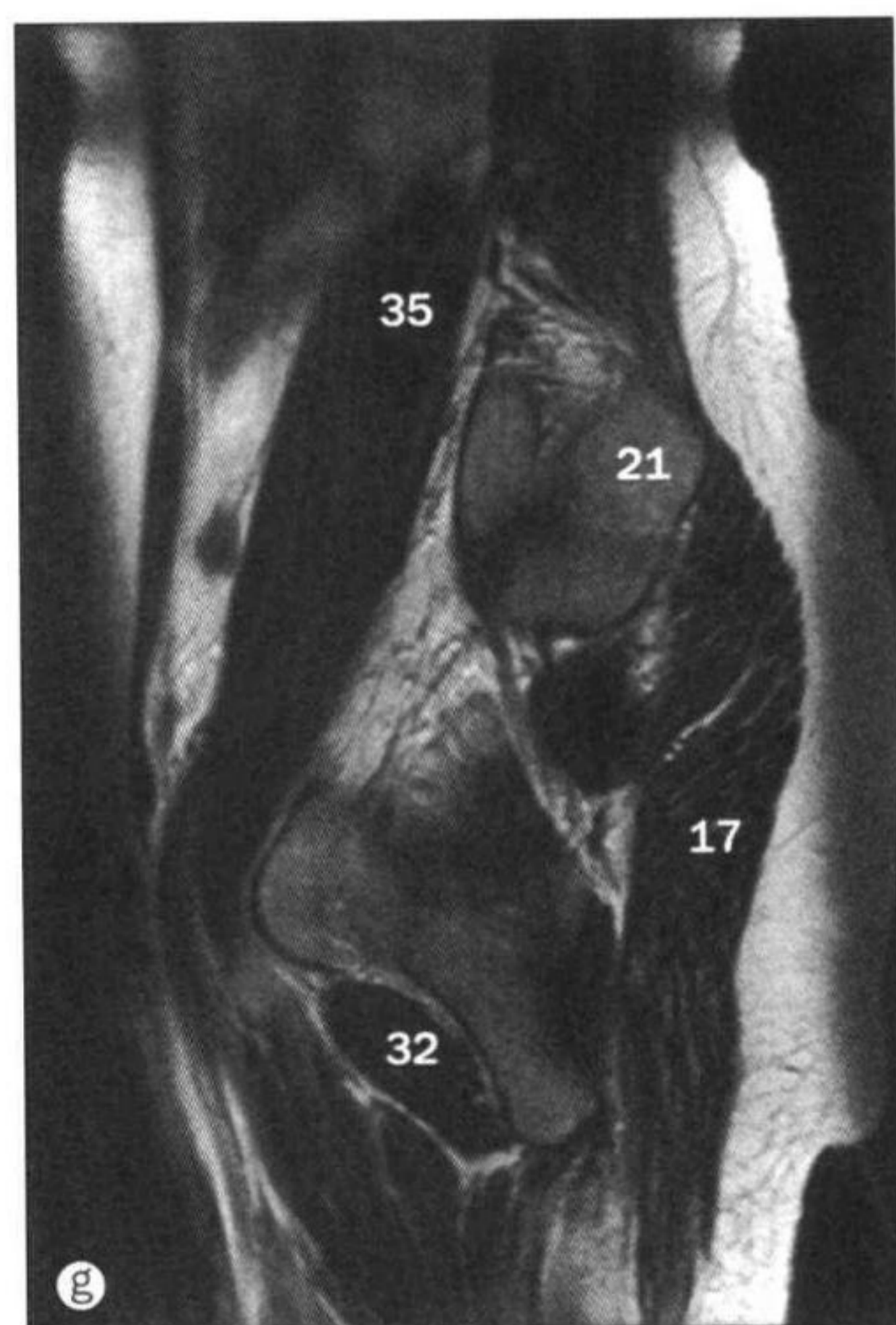
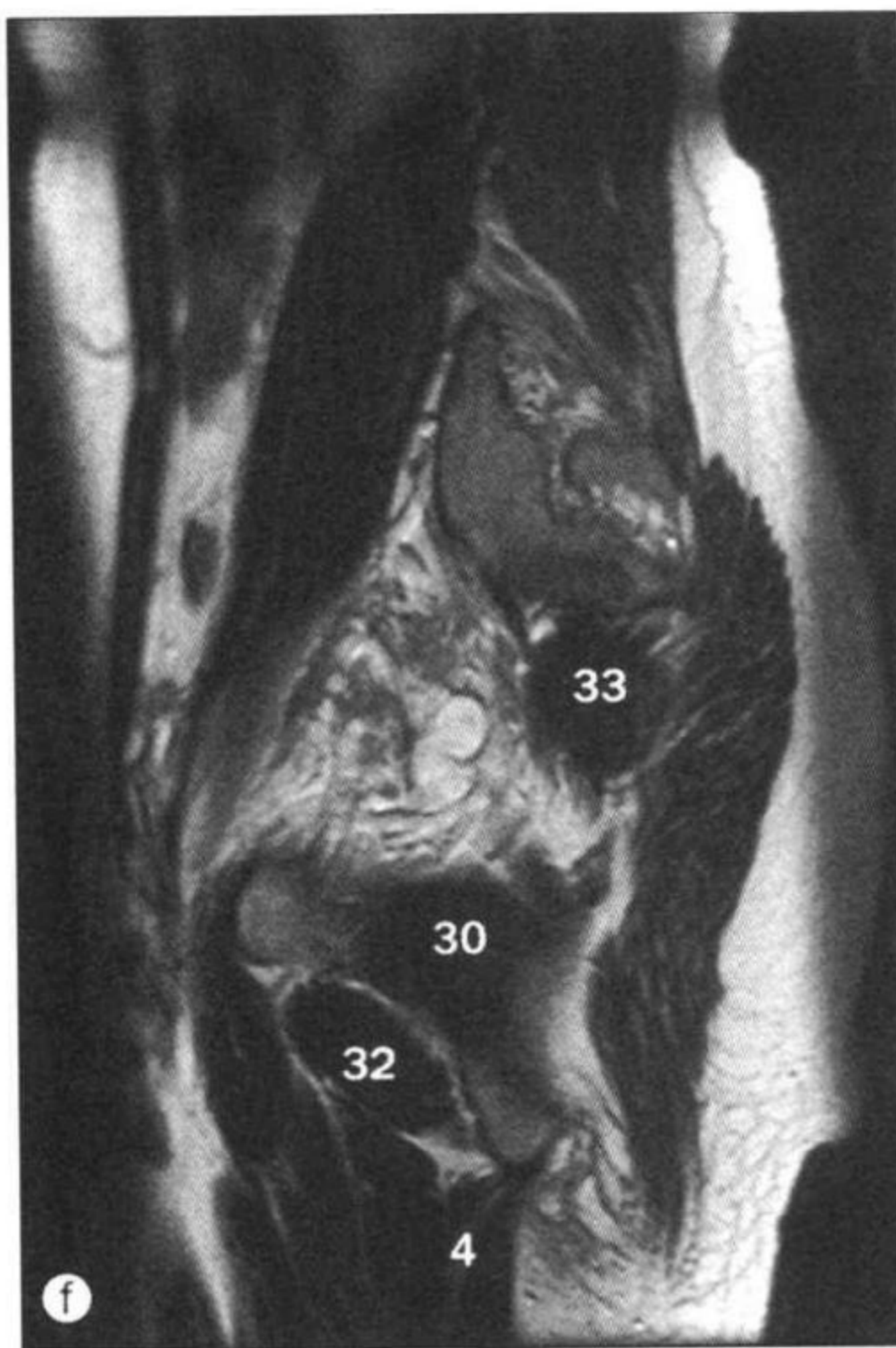
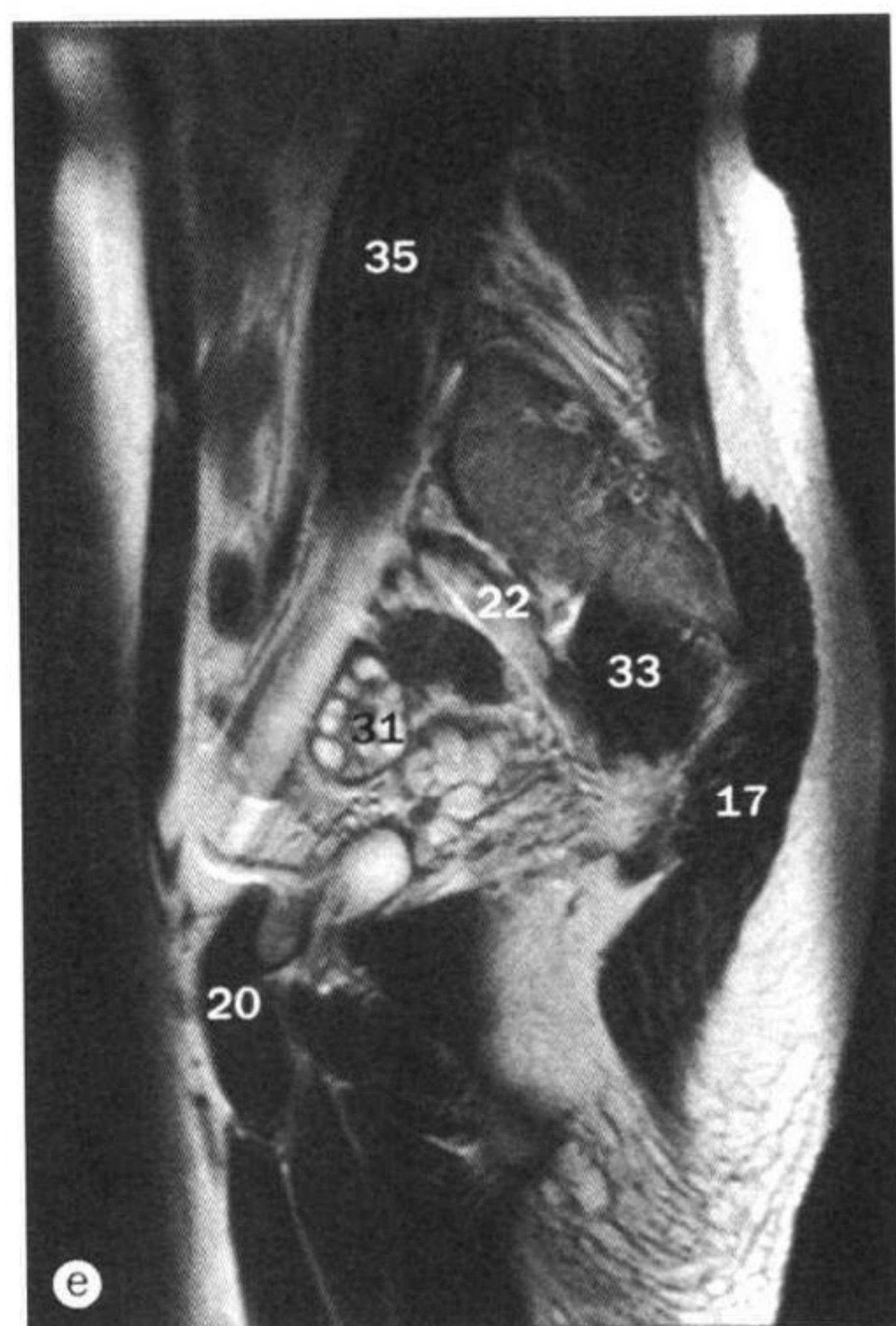
i-l. 女性盆部，轴位 MRI。

- | | | |
|--|---|--------------------------------------|
| 1 髋臼顶 acetabular roof | 19 子宫颈内口 internal os of cervix | 36 腹直肌 rectus abdominis muscle |
| 2 髋臼 acetabulum | 20 阴部内动静脉 internal pudendal artery and vein | 37 股直肌 rectus femoris muscle |
| 3 肛管 anal canal | 21 坐骨棘 ischial spine | 38 圆韧带 round ligament |
| 4 膀胱 bladder | 22 坐骨肛门窝 ischio-anal fossa | 39 骶棘韧带 sacrospinous ligament |
| 5 耻骨体 body of pubis | 23 坐骨 ischium | 40 骶骨 sacrum |
| 6 子宫阔韧带 broad ligament of uterus | 24 肛提肌 levator ani muscle | 41 缝匠肌 sartorius muscle |
| 7 子宫腔 cavity of uterus | 25 子宫肌层 myometrium of uterus | 42 坐骨神经 sciatic nerve |
| 8 尾骨 coccyx | 26 闭孔外肌 obturator externus muscle | 43 乙状结肠 sigmoid colon |
| 9 髂外动静脉 external iliac artery and vein | 27 闭孔内肌 obturator internus muscle | 44 股浅神经 superficial femoral artery |
| 10 子宫颈外口 external os of cervix | 28 卵巢 ovary | 45 股浅静脉 superficial femoral vein |
| 11 股动脉 femoral artery | 29 耻骨肌 pectineus muscle | 46 阔筋膜张肌 tensor fasciae latae muscle |
| 12 股神经 femoral nerve | 30 梨状肌 piriformis muscle | 47 尿道 urethra |
| 13 股静脉 femoral vein | 31 阴道穹后部 posterior fornix of vagina | 48 子宫动脉 uterine artery |
| 14 子宫底 fundus of uterus | 32 股深动脉 profunda femoris artery | 49 输卵管 uterine tube |
| 15 臀大肌 gluteus maximus muscle | 33 耻骨联合 public symphysis | 50 子宫骶骨韧带 uterosacral ligament |
| 16 股骨头 head of femur | 34 股四头肌 quadratus femoris muscle | 51 阴道 vagina |
| 17 髂腰肌 iliopsoas muscle | 35 直肠 rectum | 52 子宫颈壁 wall of cervix |
| 18 髂内动静脉 internal iliac artery | | |



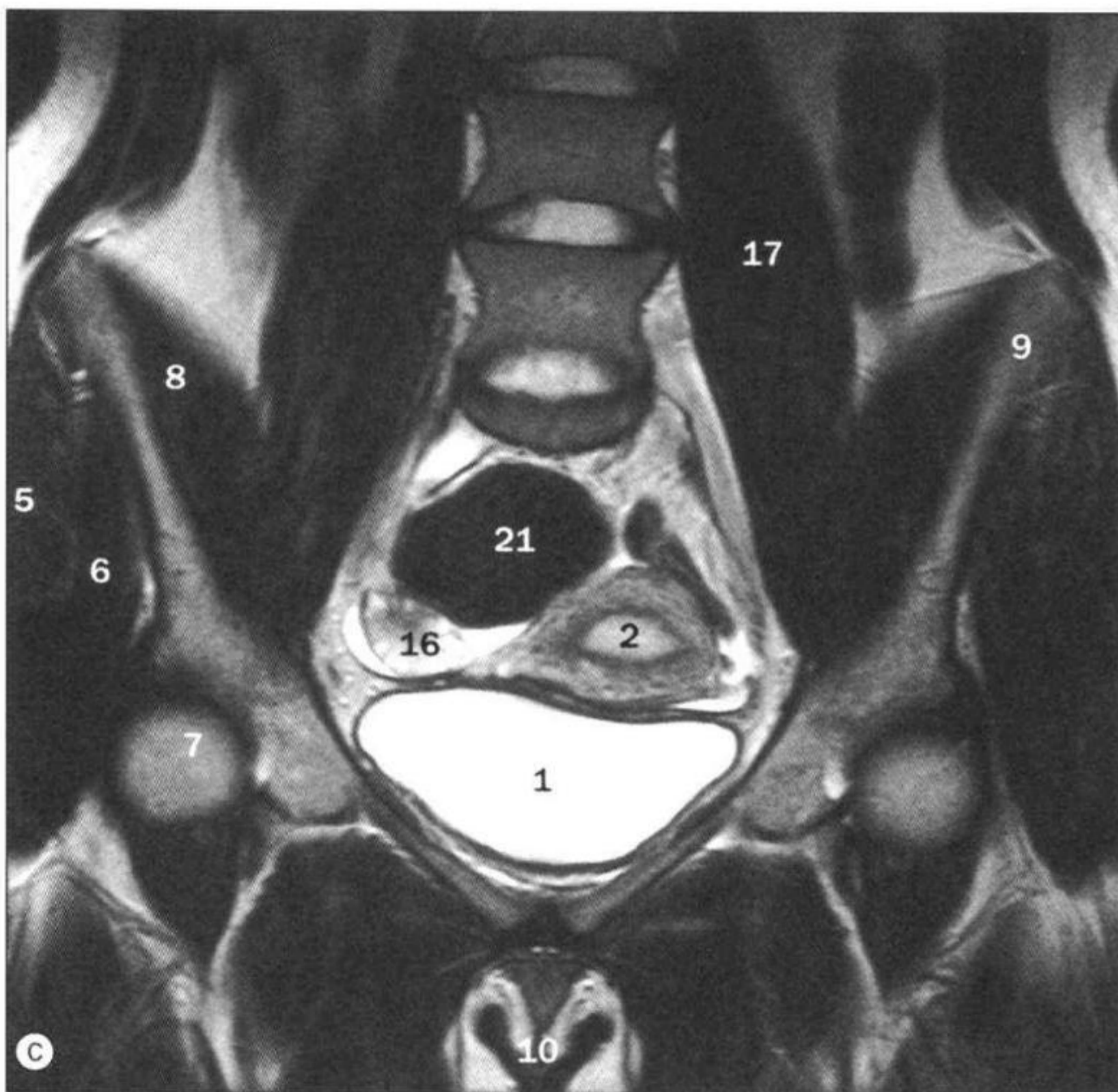
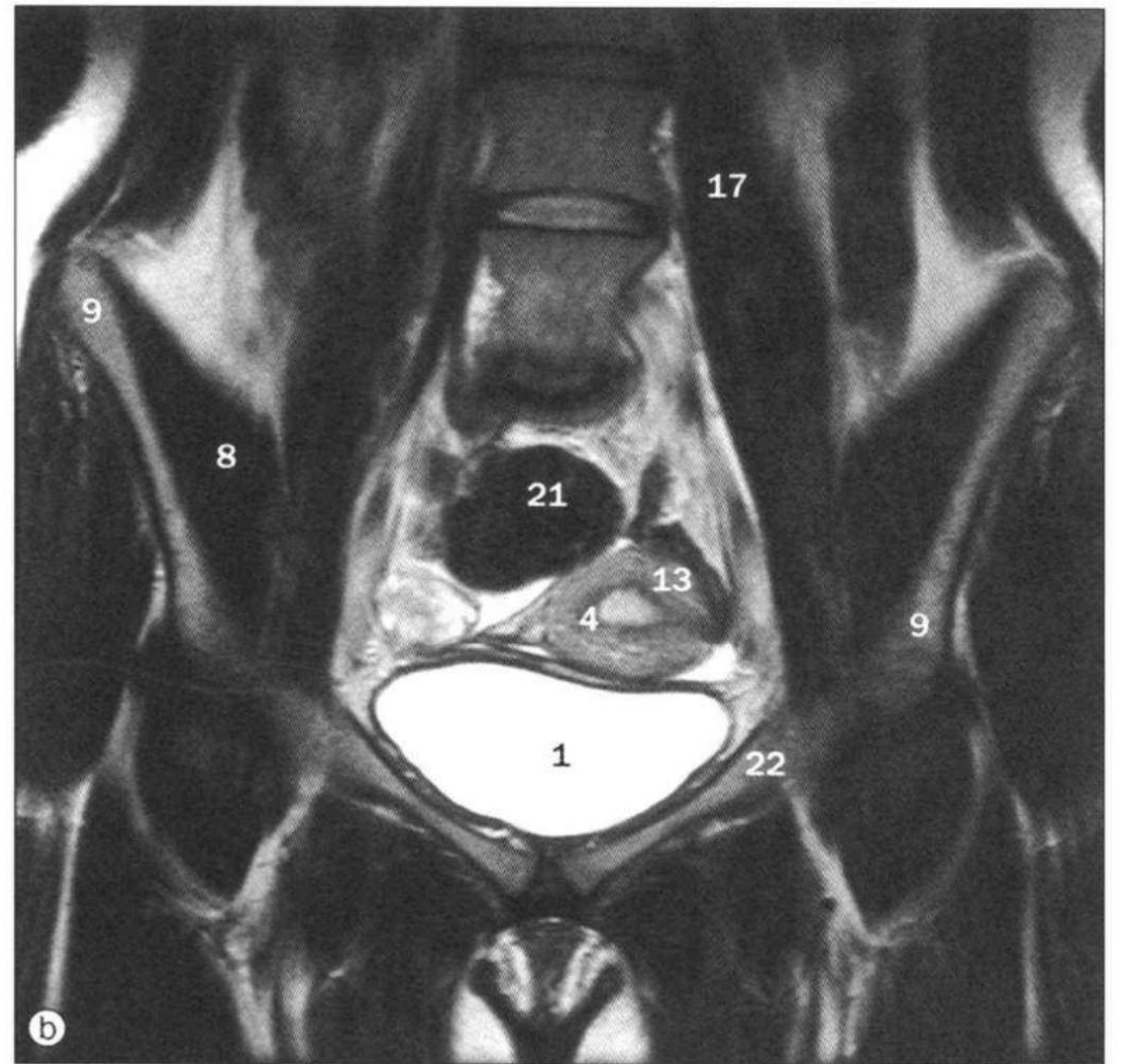
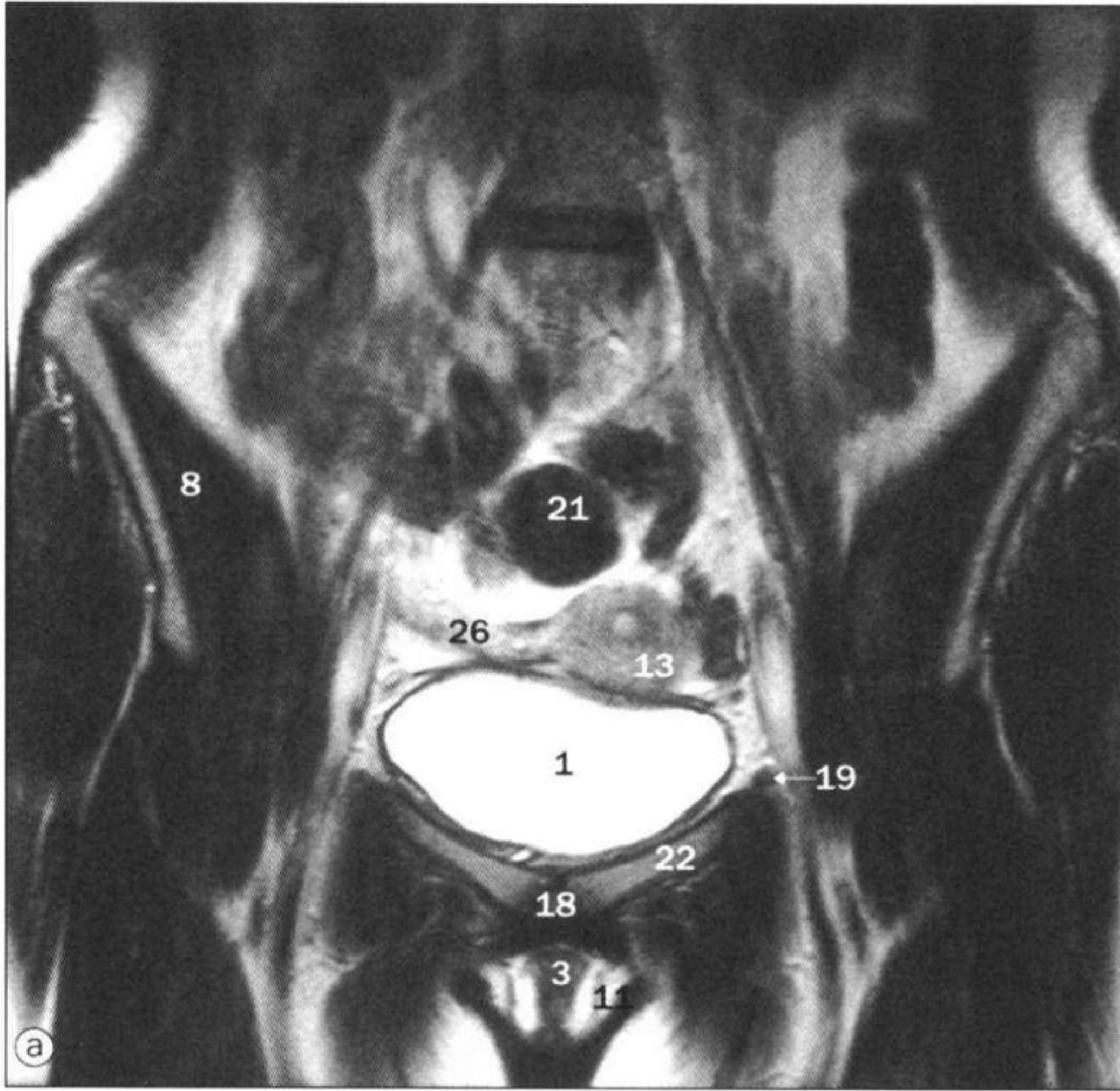
a~d. 女性盆部, 矢状位 MRI。

- 1 髋臼窝 acetabular fossa
- 2 短收肌 adductor brevis muscle
- 3 长收肌 adductor longus muscle
- 4 大收肌 adductor magnus muscle
- 5 肛管 anal canal
- 6 阴道穹前部 anterior fornix of vagina
- 7 膀胱 bladder
- 8 耻骨体 body of pubis
- 9 子宫体 body of uterus
- 10 子宫腔 cavity of uterus
- 11 子宫颈管 cervical canal
- 12 尾骨 coccyx
- 13 子宫颈内管 endocervical canal of cervix
- 14 子宫内膜 endometrium
- 15 子宫颈外口 external os of cervix
- 16 子宫底 fundus of uterus
- 17 臀大肌 gluteus maximus muscle
- 18 股骨头 head of femur
- 19 回肠 ileum
- 20 髂肌 iliacus muscle
- 21 髂骨 ilium
- 22 髂内动静脉 internal iliac artery and vein
- 23 子宫颈内口 internal os of cervix
- 24 椎间盘 intervertebral disc
- 25 坐骨肛门窝 ischio-anal fossa
- 26 大阴唇 labium majus
- 27 肛提肌 levator ani muscle
- 28 骶正中动脉 median sacral artery
- 29 子宫肌层 myometrium of uterus
- 30 闭孔内肌 obturator internus muscle
- 31 卵巢 ovary
- 32 耻骨肌 pectineus muscle
- 33 梨状肌 piriformis muscle
- 34 阴道穹后部 posterior fornix of vagina
- 35 腰大肌 psoas muscle
- 36 耻骨联合 public symphysis
- 37 直肠子宫陷凹 recto-uterine pouch
- 38 直肠 rectum
- 39 腹直肌 rectus abdominis muscle
- 40 骶骨 sacrum
- 41 乙状结肠 sigmoid colon
- 42 硬脊膜囊 thecal sac
- 43 尿道 urethra
- 44 输卵管 uterine tube
- 45 阴道 vagina
- 46 膀胱子宫陷凹 vesico-uterine pouch
- 47 子宫颈壁 wall of cervix



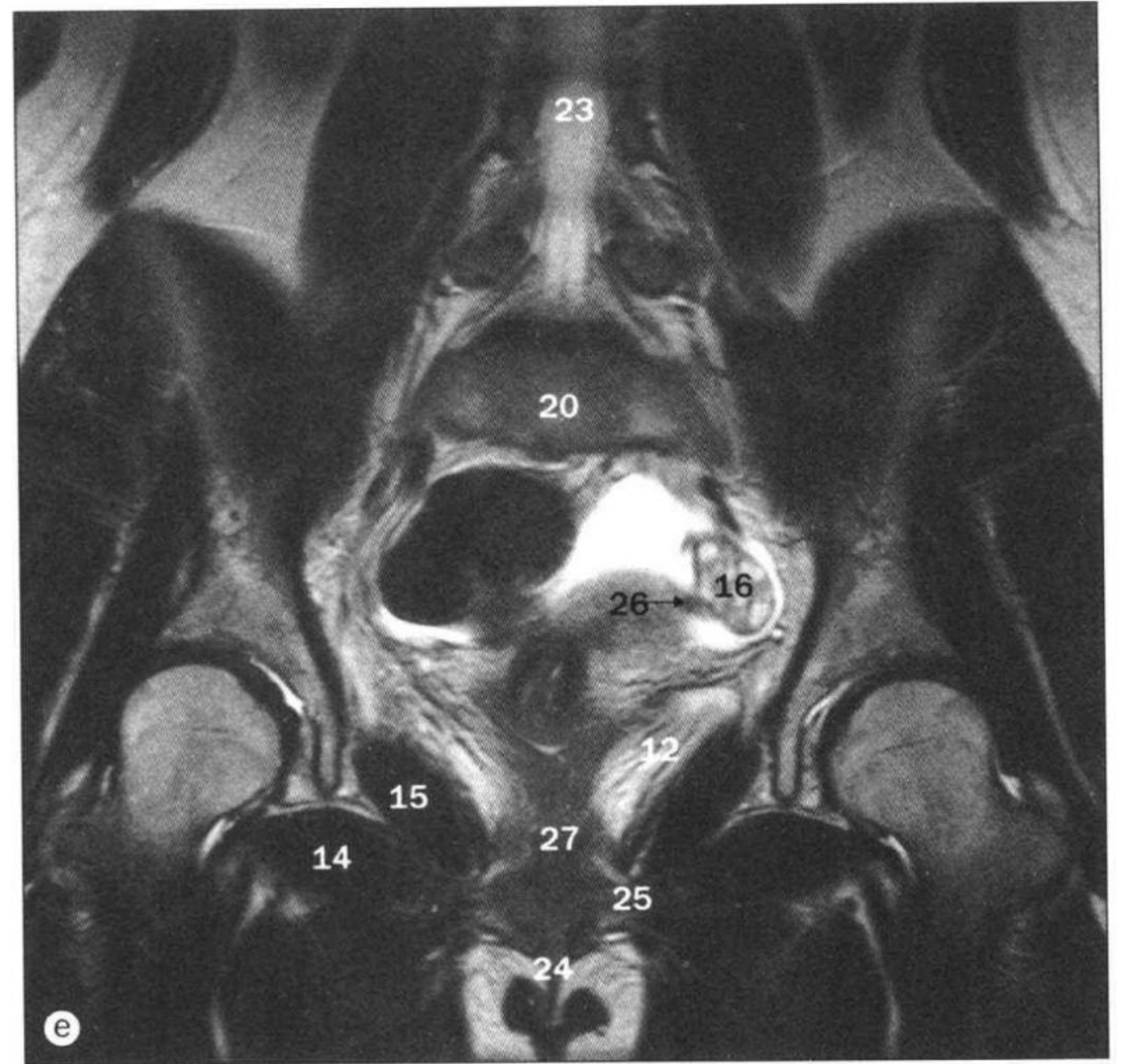
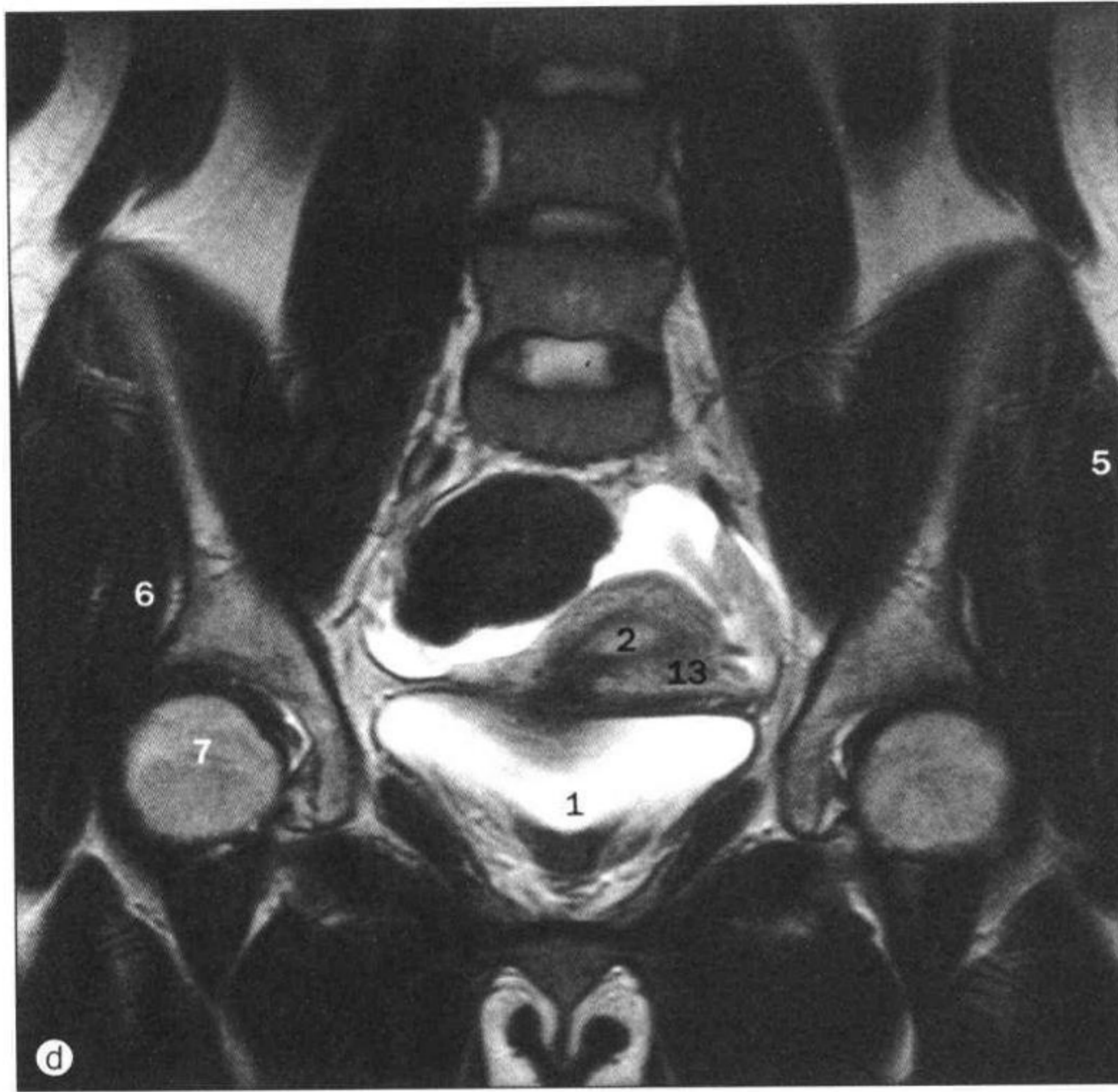
e~h. 女性盆部, 矢状位 MRI。

- 1 髋臼窝 acetabular fossa
- 2 短收肌 adductor brevis muscle
- 3 长收肌 adductor longus muscle
- 4 大收肌 adductor magnus muscle
- 5 肛管 anal canal
- 6 阴道前穹隆 anterior fornix of vagina
- 7 膀胱 bladder
- 8 耻骨体 body of pubis
- 9 子宫体 body of uterus
- 10 子宫腔 cavity of uterus
- 11 子宫颈管 cervical canal
- 12 尾骨 coccyx
- 13 子宫颈内管
endocervical canal of cervix
- 14 子宫内膜 endometrium
- 15 子宫颈外口 external os of cervix
- 16 子宫底 fundus of uterus
- 17 臀大肌 gluteus maximus muscle
- 18 股骨头 head of femur
- 19 回肠 ileum
- 20 髂肌 iliacus muscle
- 21 髂骨 ilium
- 22 髂内动静脉 internal iliac artery
and vein
- 23 子宫颈内口 internal os of cervix
- 24 椎间盘 intervertebral disc
- 25 坐骨肛门窝 ischio-anal fossa
- 26 大阴唇 labium majus
- 27 肛提肌 levator ani muscle
- 28 骶正中动脉 median sacral artery
- 29 子宫肌层 myometrium of uterus
- 30 闭孔内肌 obturator internus muscle
- 31 卵巢 ovary
- 32 耻骨肌 pectineus muscle
- 33 梨状肌 piriformis muscle
- 34 阴道穹后部
posterior fornix of vagina
- 35 腰大肌 psoas muscle
- 36 耻骨联合 public symphysis
- 37 直肠子宫陷凹 recto-uterine pouch
- 38 直肠 rectum
- 39 腹直肌 rectus abdominis muscle
- 40 骶骨 sacrum
- 41 乙状结肠 sigmoid colon
- 42 硬脊膜囊 thecal sac
- 43 尿道 urethra
- 44 输卵管 uterine tube
- 45 阴道 vagina
- 46 膀胱子宫陷凹
vesico-uterine pouch
- 47 子宫颈壁 wall of cervix



- 1 膀胱 bladder
- 2 子宫腔 cavity of uterus
- 3 阴蒂 clitoris
- 4 子宫内膜 endometrium
- 5 臀中肌 gluteus medius muscle
- 6 臀小肌 gluteus minimus muscle
- 7 股骨头 head of femur
- 8 髂肌 iliacus muscle
- 9 髌骨 ilium
- 10 小阴唇 labium minus
- 11 大阴唇 labium majus
- 12 肛提肌 levator ani muscle
- 13 子宫肌层 myometrium of uterus
- 14 闭孔外肌 obturator externus muscle
- 15 闭孔内肌 obturator internus muscle
- 16 卵巢 ovary
- 17 腰大肌 psoas muscle
- 18 耻骨联合 pubic symphysis
- 19 子宫圆韧带 round ligament of uterus
- 20 骶骨 sacrum
- 21 乙状结肠 sigmoid colon
- 22 耻骨上支 superior ramus of pubis
- 23 硬脊膜囊 thecal sac
- 24 尿道 urethra
- 25 尿生殖膈 urogenital diaphragm
- 26 输卵管 uterine tube
- 27 阴道 vagina

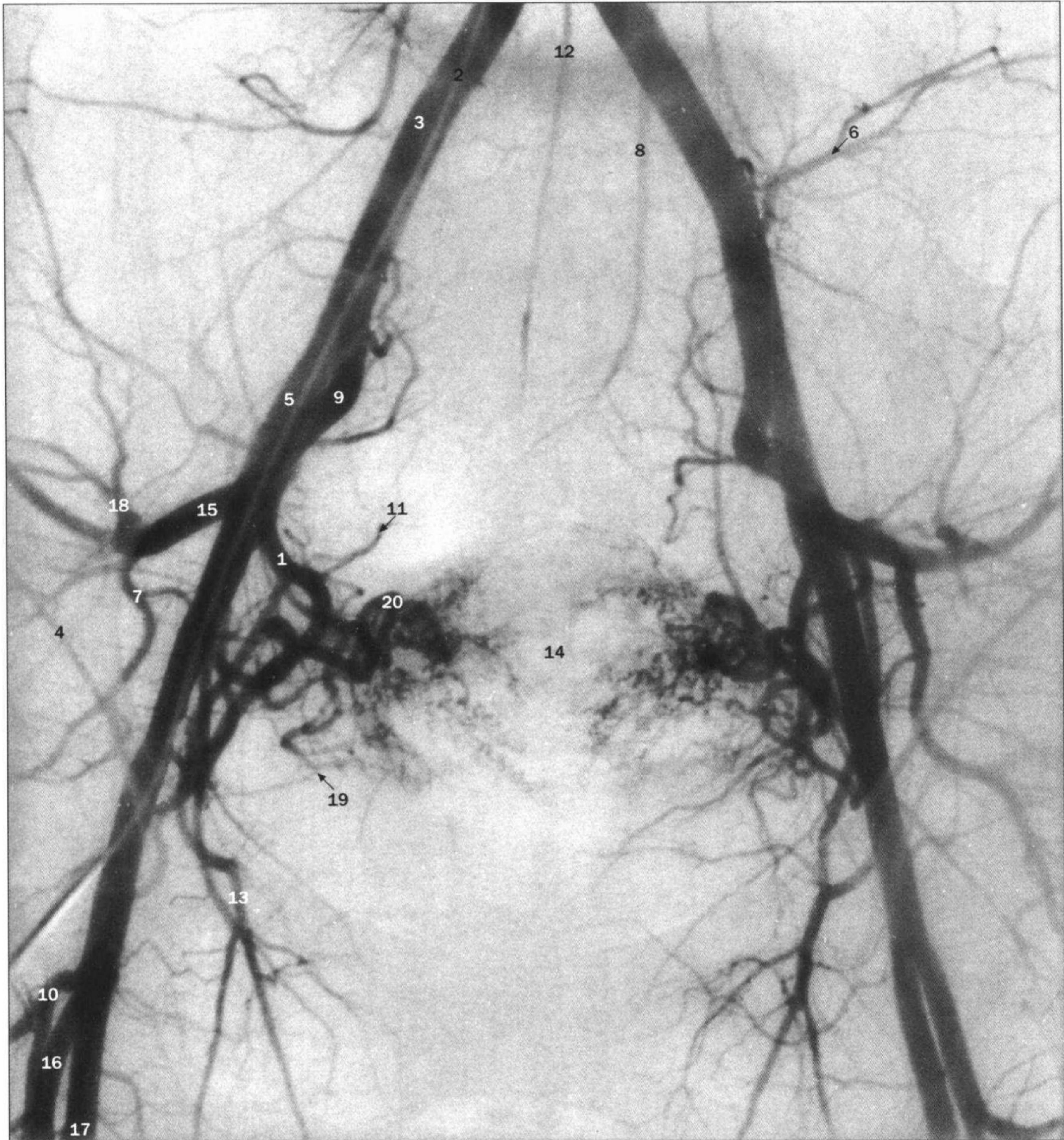
a~c. 女性盆部，冠状位 MRI。



d, e. 女性盆部, 冠状位 MRI。

- 1 膀胱 bladder
- 2 子宫腔 cavity of uterus
- 3 阴蒂 clitoris
- 4 子宫内膜 endometrium
- 5 臀中肌 gluteus medius muscle
- 6 臀小肌 gluteus minimus muscle
- 7 股骨头 head of femur
- 8 髂肌 iliacus muscle
- 9 髌骨 ilium
- 10 小阴唇 labium minus
- 11 大阴唇 labium majus
- 12 肛提肌 levator ani muscle
- 13 子宫肌层 myometrium of uterus
- 14 闭孔外肌 obturator externus muscle

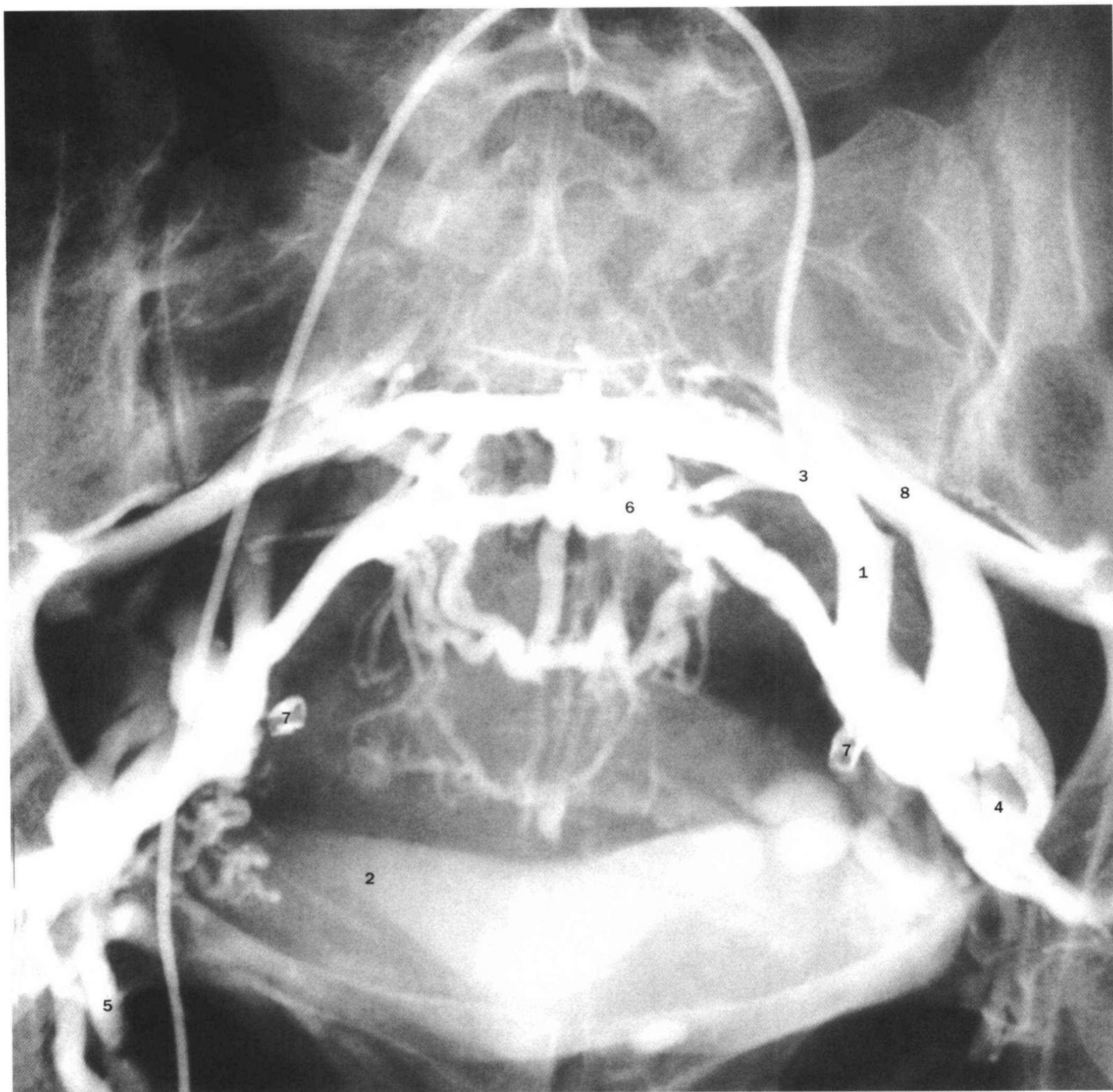
- 15 闭孔内肌 obturator internus muscle
- 16 卵巢 ovary
- 17 腰大肌 psoas muscle
- 18 耻骨联合 pubic symphysis
- 19 子宫圆韧带 round ligament of uterus
- 20 骶骨 sacrum
- 21 乙状结肠 sigmoid colon
- 22 耻骨上支 superior ramus of pubis
- 23 硬脊膜囊 thecal sac
- 24 尿道 urethra
- 25 尿生殖膈 urogenital diaphragm
- 26 输卵管 uterine tube
- 27 阴道 vagina



盆腔动脉造影减影。

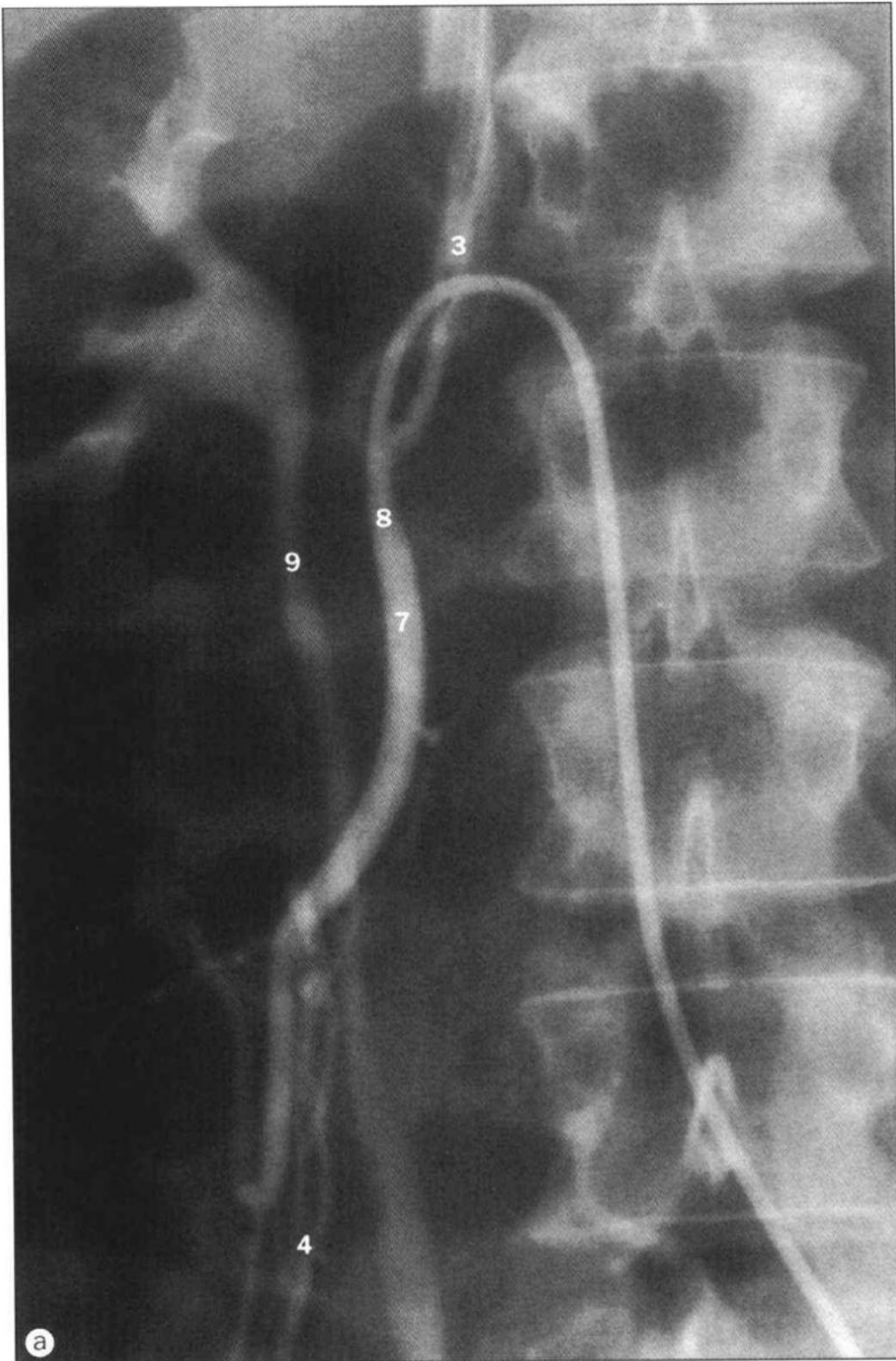
该前后位片显示了髂内和髂外动脉及其分支。许多血管是相重叠的，为了更清楚地显示，需加摄斜位片。注入到动脉内的对比剂经肾脏排泄，充盈的膀胱可能使血管分支显得模糊。用预先塑形的导管选择性插入髂内动脉和髂外动脉可以更清楚地显示血管分支，避免血管分支的重叠。

- | | |
|---|--|
| 1 髂内动脉前干 anterior trunk of internal iliac artery | 11 骶外动脉 lateral sacral artery |
| 2 经右股动脉插入远端腹主动脉的导管 catheter introduced into distal abdominal aorta via right femoral artery | 12 骶正中动脉 median sacral artery |
| 3 髂总动脉 common iliac artery | 13 闭孔动脉 obturator artery |
| 4 髂动脉深旋支 deep circumflex iliac artery | 14 子宫位置 position of uterus |
| 5 髂外动脉 external iliac artery | 15 髂内动脉后干 posterior trunk of internal iliac artery |
| 6 髂腰动脉 iliolumbar artery | 16 股深动脉 profunda femoris artery |
| 7 臀下动脉 inferior gluteal artery | 17 股浅动脉 superficial femoral artery |
| 8 肠系膜下动脉 inferior mesenteric artery | 18 臀上动脉 superior gluteal artery |
| 9 髂内动脉 internal iliac artery | 19 膀胱上动脉 superior vesical artery |
| 10 股动脉外旋支 lateral circumflex femoral artery | 20 子宫动脉 uterine artery |



女性盆腔静脉造影。

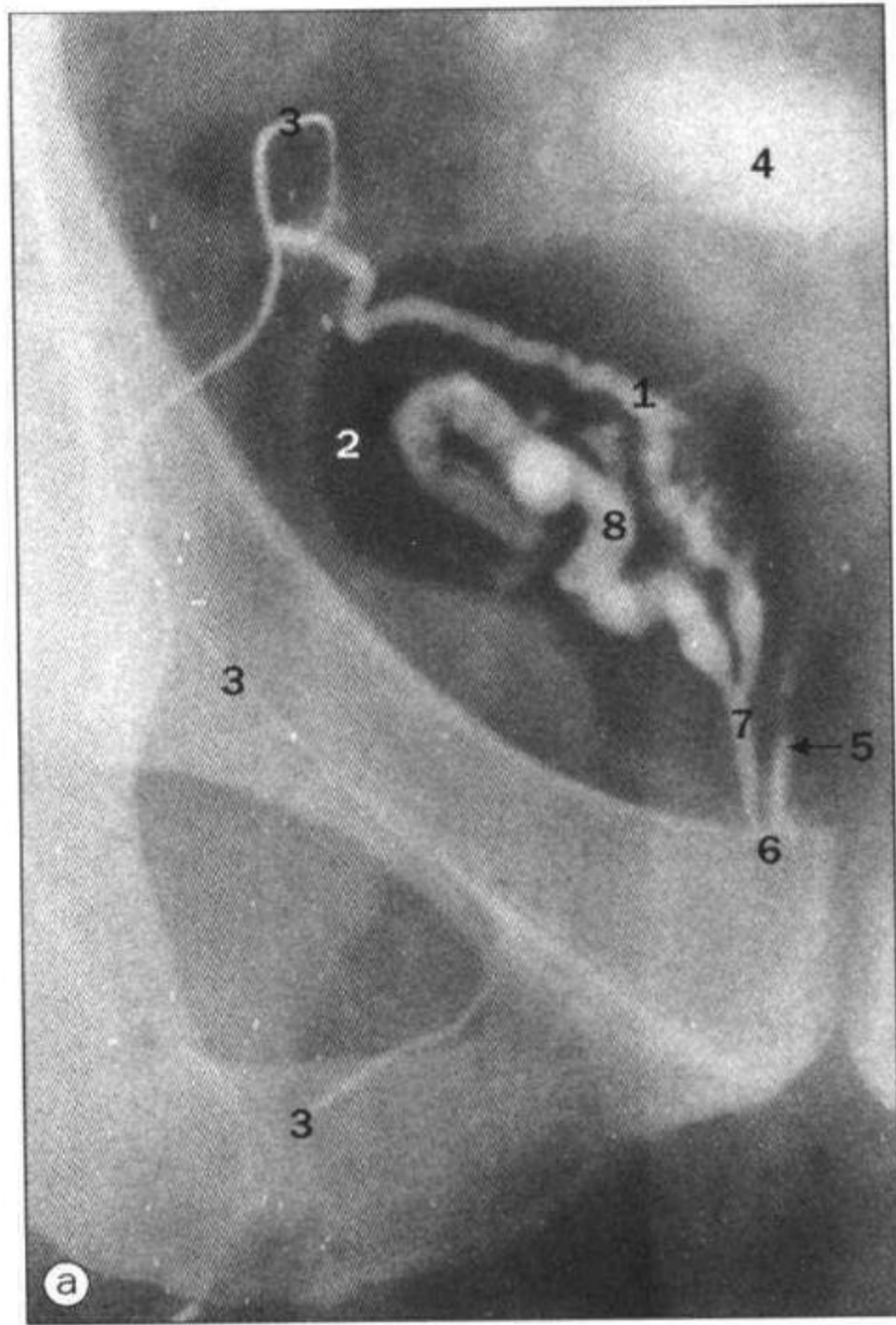
- 1 髂内静脉前干 anterior division of internal iliac vein
- 2 膀胱内有对比剂 bladder containing contrast medium
- 3 经右侧股静脉插入的导管，导管头位于左髂内静脉
catheter introduced via right femoral vein, with tip in left internal iliac vein
- 4 臀下静脉 inferior gluteal veins
- 5 闭孔静脉 obturator veins
- 6 骶静脉丛 sacral plexus of veins
- 7 无菌钳 sterilisation clips
- 8 臀上动脉 superior gluteal veins



a, b. 右睾丸静脉造影。

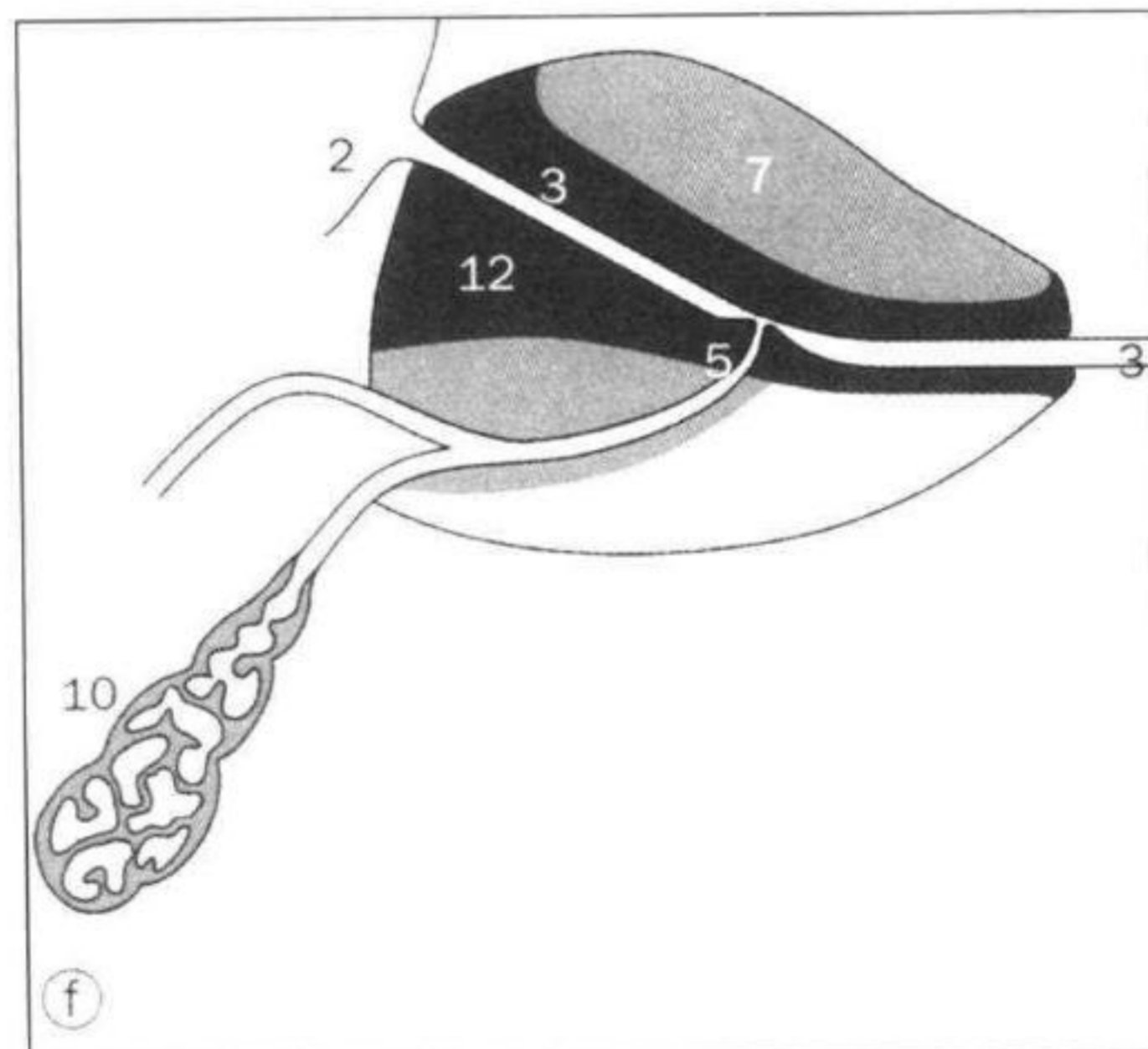
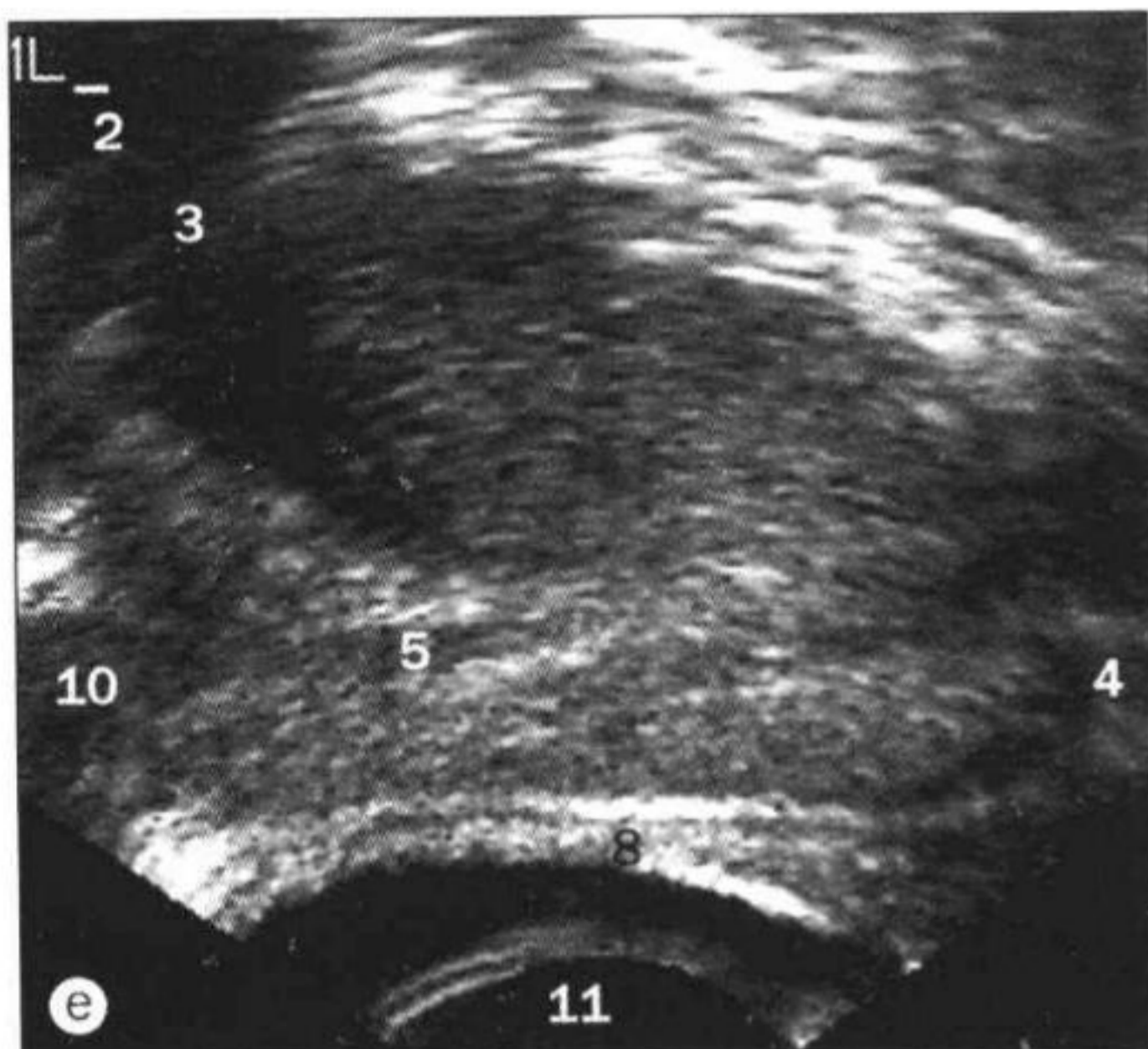
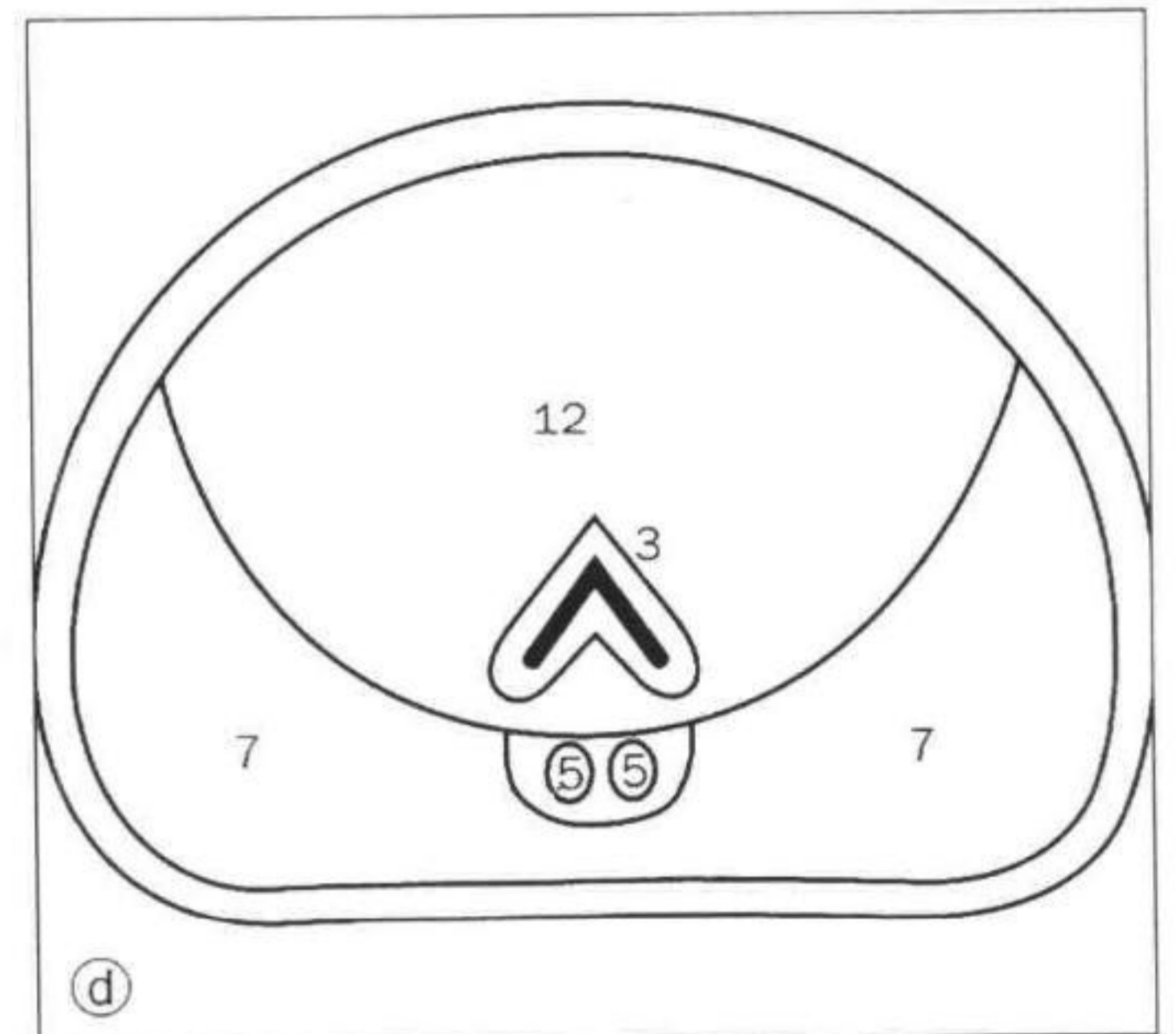
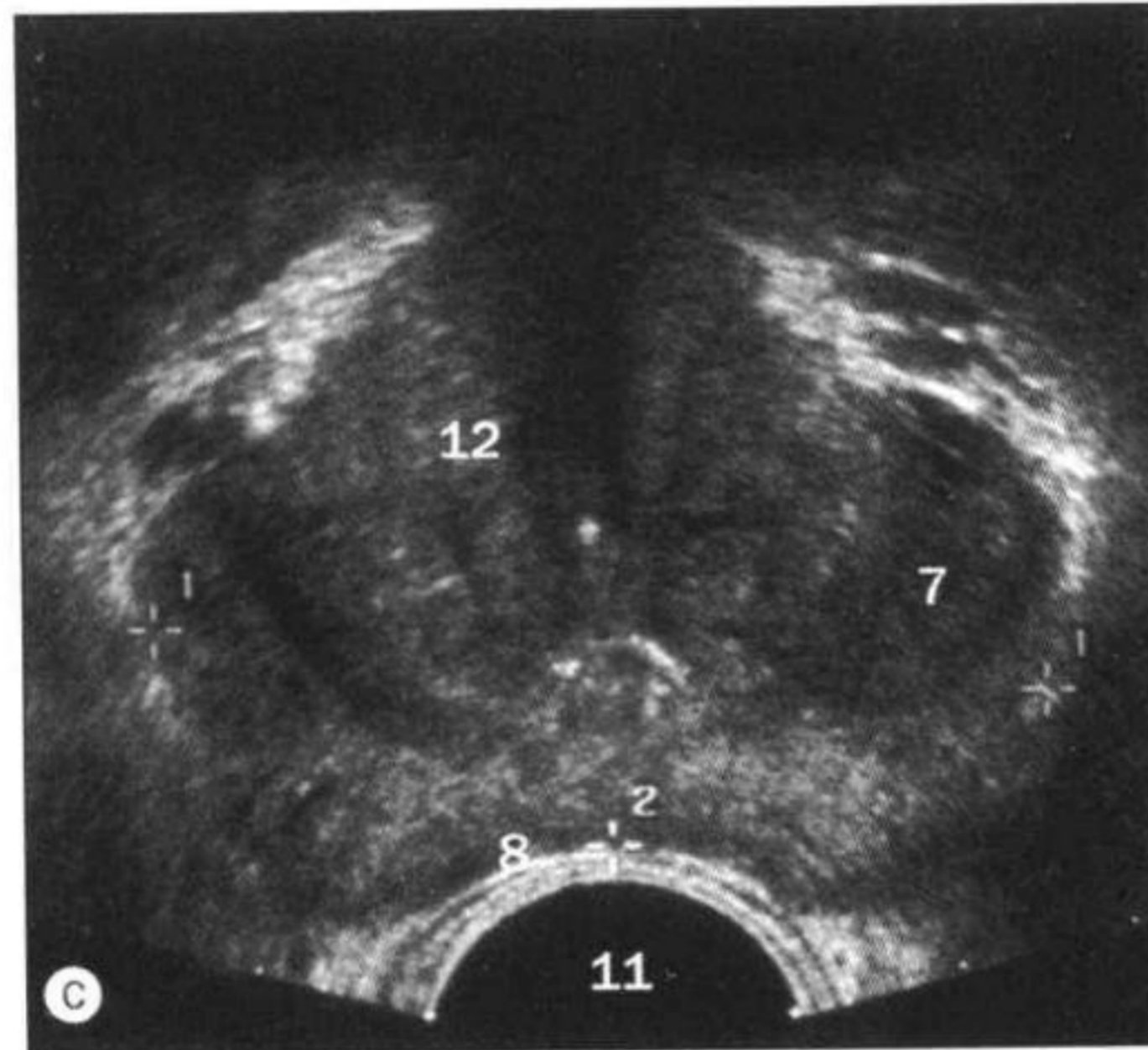
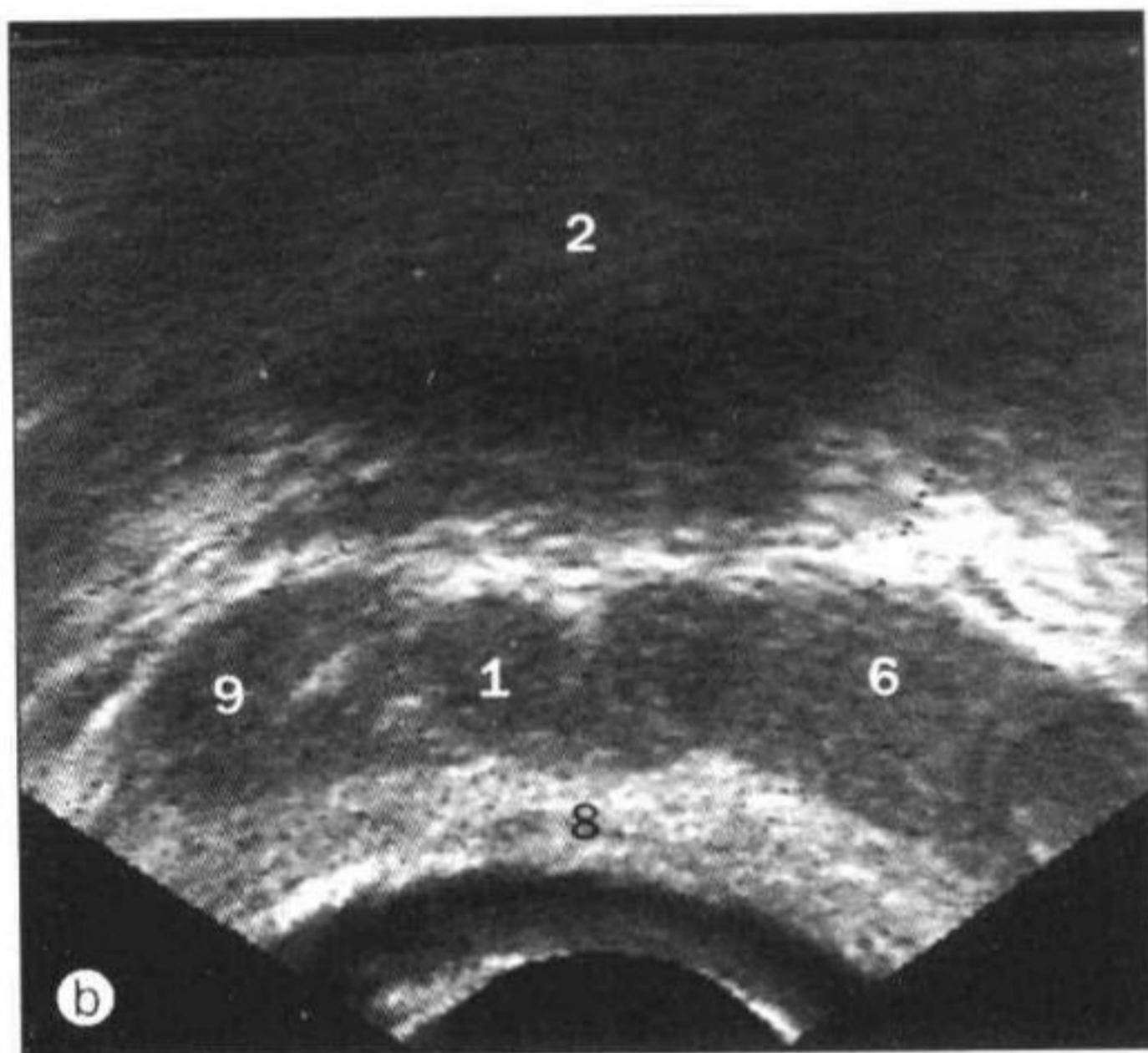
性腺静脉通过静脉丛回流至一条或两条主静脉。左侧，主静脉回流至左肾静脉。偶尔与肠系膜下静脉交通并回流至门静脉系统。右侧，主静脉直接回流至下腔静脉，但也可回流至右肾静脉。

- 1 膀胱 bladder
- 2 髂总静脉 common iliac veins
- 3 下腔静脉 inferior vena cava
- 4 蔓状静脉丛 pampiniform plexus of veins
- 5 蔓状静脉丛 (腹股沟内睾丸未降) pampiniform plexus of veins (undescended testis in inguinal canal)
- 6 肾包膜静脉丛 renal capsular veins
- 7 右睾丸静脉 right testicular vein
- 8 右睾丸静脉内导管头, 经左侧股静脉插入 tip of catheter in right testicular vein, introduced via left femoral vein
- 9 输尿管 ureter



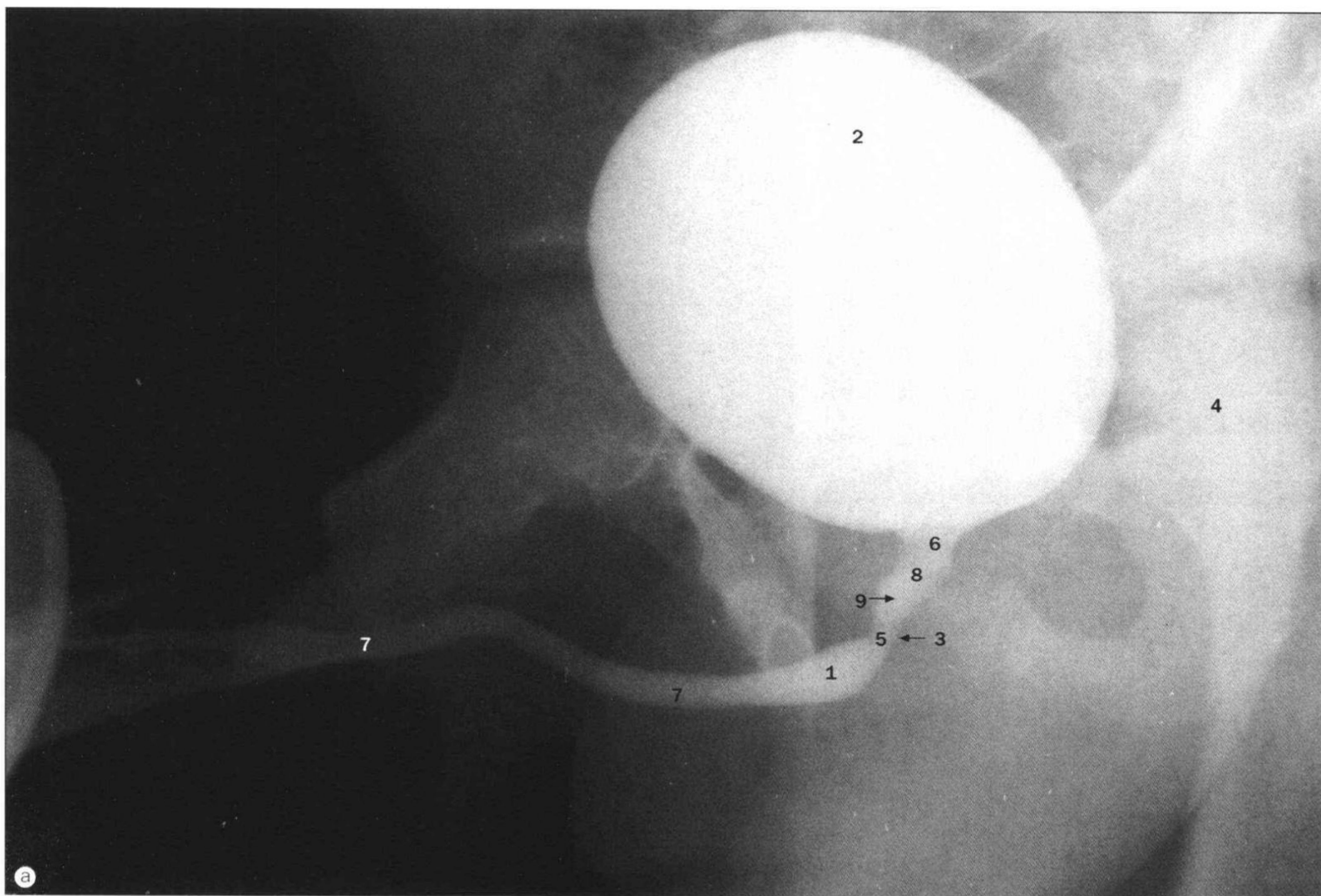
a. 精囊造影。

- 1 输精管壶腹 ampulla of ductus deferens
- 2 结肠内气体 colonic gas
- 3 输精管 ductus deferens (vas deferens)
- 4 充盈的膀胱 full urinary bladder
- 5 左射精管 left ejaculatory duct
- 6 精阜位置 position of seminal colliculus (verumontanum)
- 7 右射精管 right ejaculatory duct
- 8 精囊 seminal vesicle



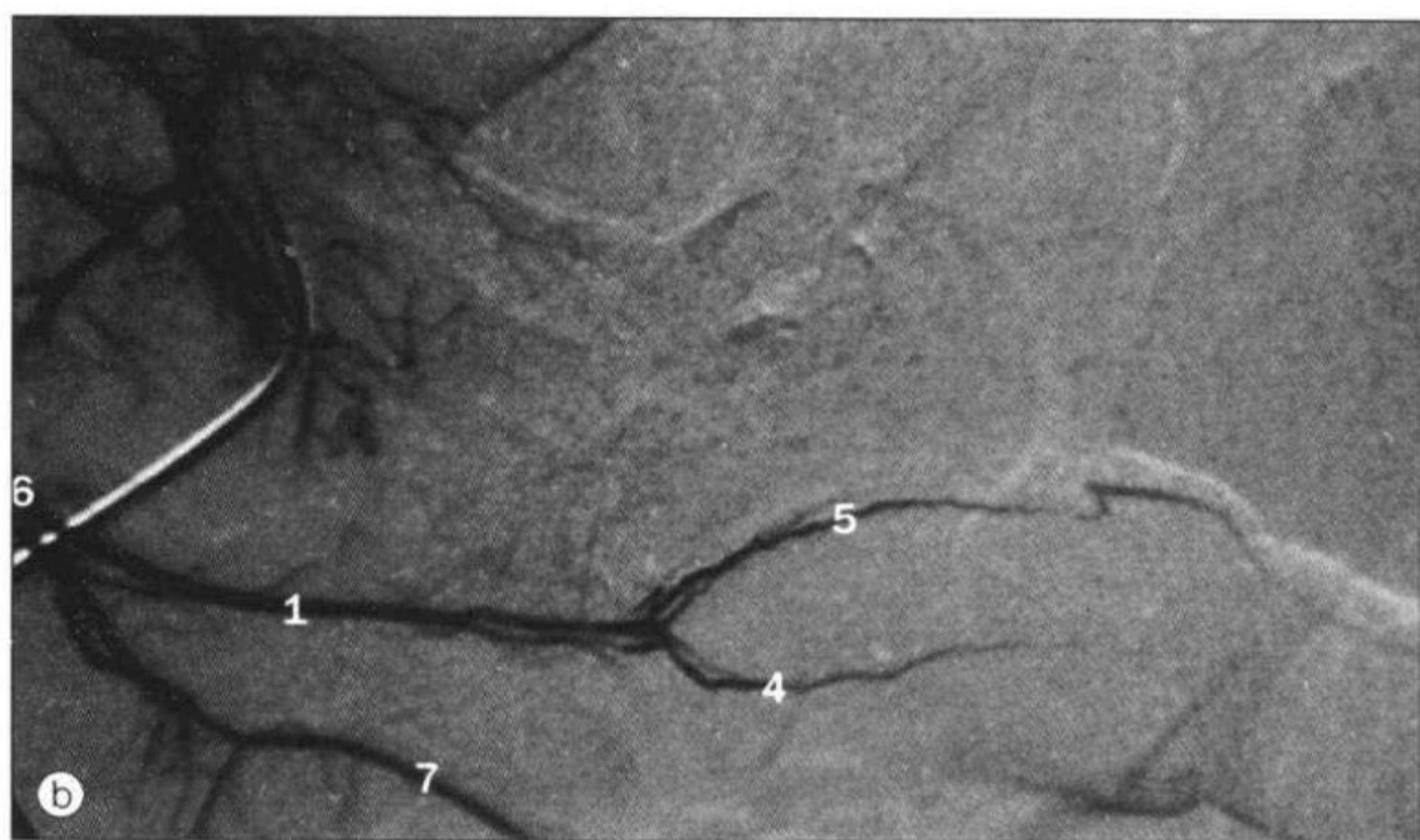
- 1 输精管壶腹 ampulla of ductus deferens
- 2 膀胱 bladder
- 3 尿道 course of urethra
- 4 尿道远端 distal urethra
- 5 射精管 ejaculatory duct
- 6 左精囊 left seminal vesicle
- 7 前列腺外周部 peripheral zone of prostate
- 8 直肠壁 rectal wall
- 9 右精囊 right seminal vesicle
- 10 精囊 seminal vesicle
- 11 探头 transducer
- 12 前列腺移行部 transitional zone of prostate

前列腺经直肠超声。b. 经膀胱底的轴向扫描；c. 前列腺内的轴向扫描；d. 轴向扫描示意图；e. 前列腺矢状位中线扫描；f. 矢状位中线扫描示意图。

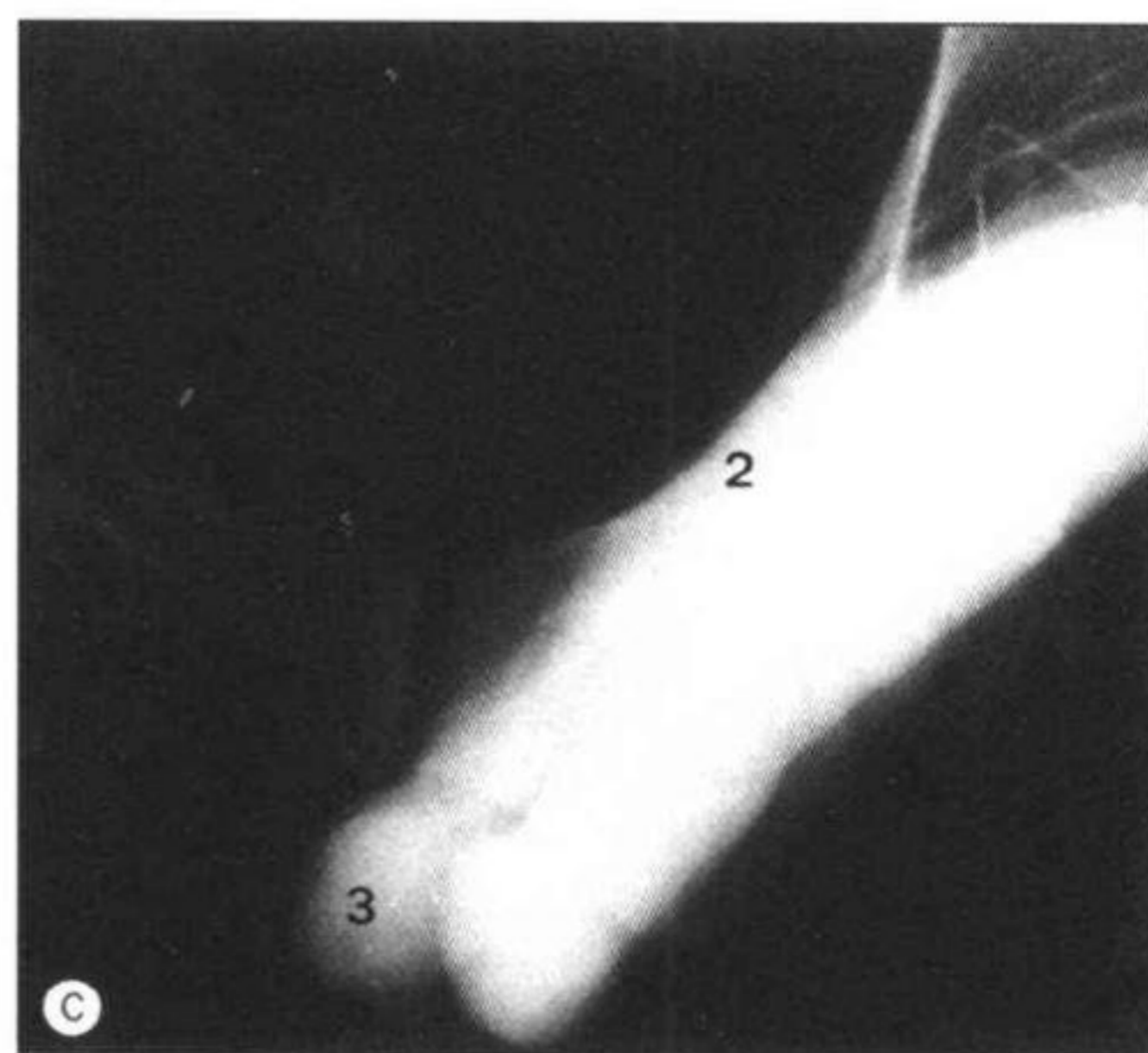


a. 男性尿道造影，斜位。

- | | |
|--|--|
| 1 尿道球部 bulbous urethra | 5 尿道膜部 membranous urethra |
| 2 膀胱内对比剂 contrast in urinary bladder | 6 膀胱颈部 neck of urinary bladder |
| 3 外括约肌 (尿道括约肌) external sphincter (sphincter urethrae) | 7 尿道海绵体部 penile urethra |
| 4 股骨头 head of femur | 8 尿道前列腺部 prostatic urethra |
| | 9 精阜 seminal colliculus (verumontanum) |

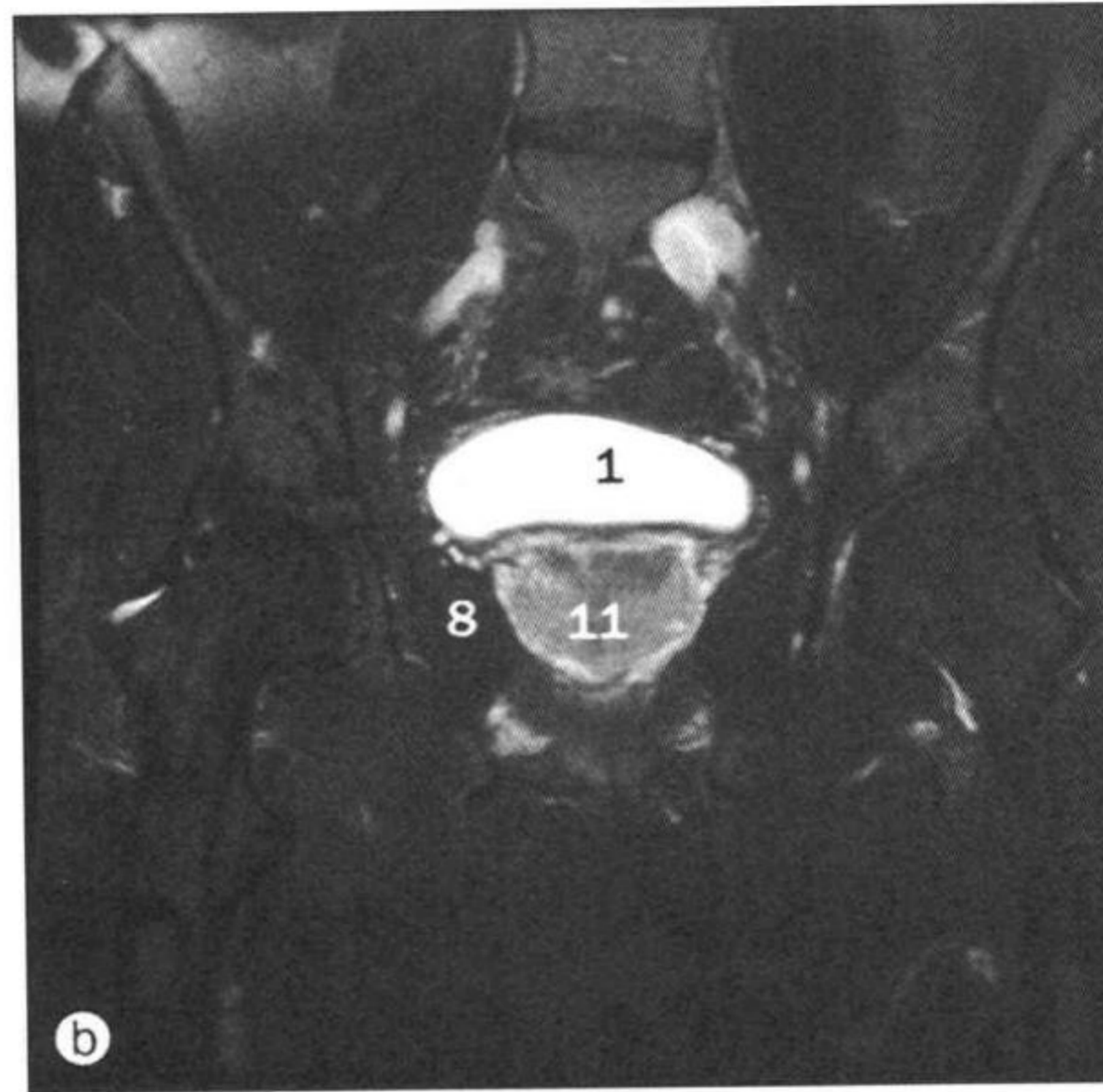
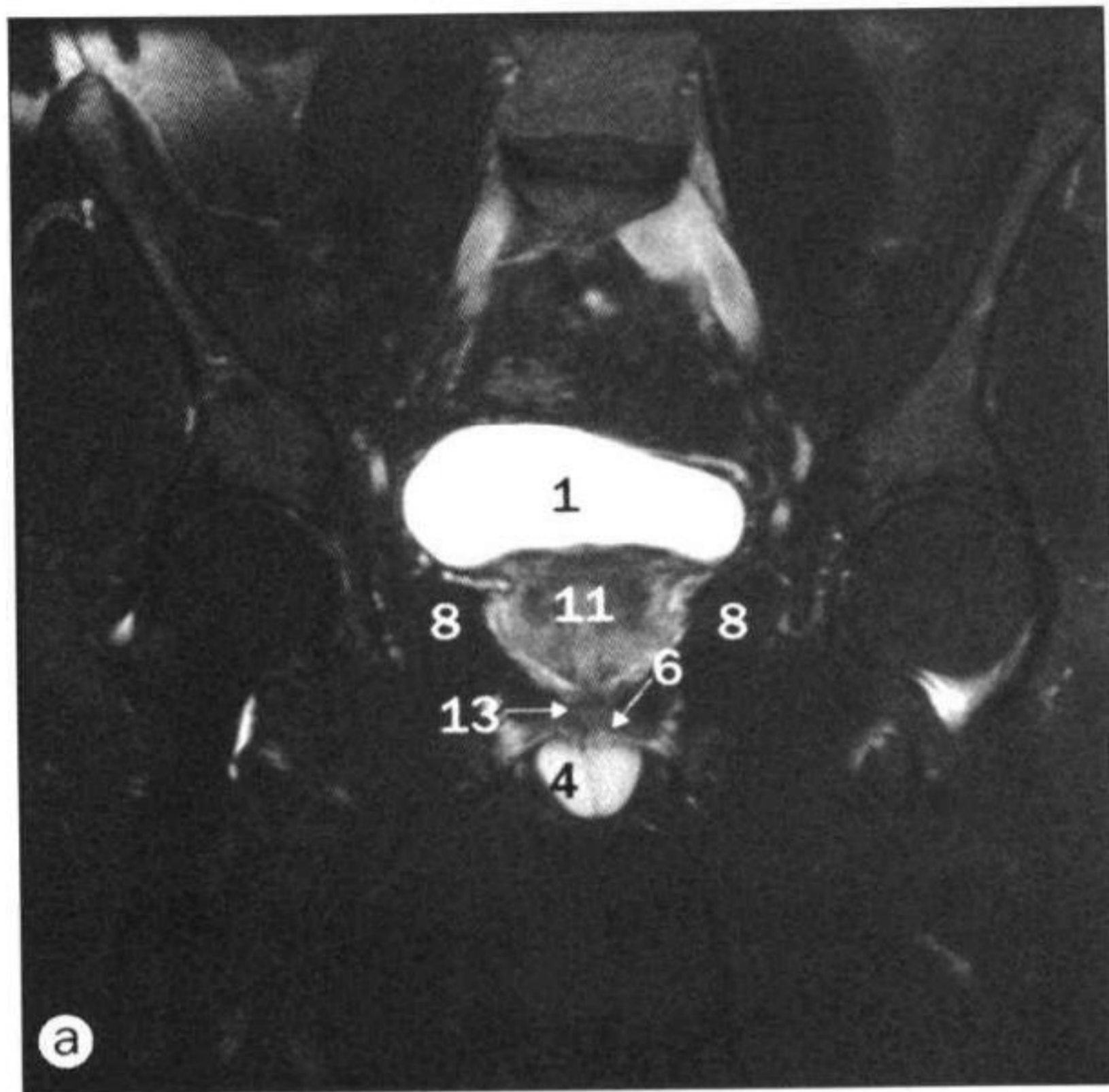


b. 阴茎动脉造影。

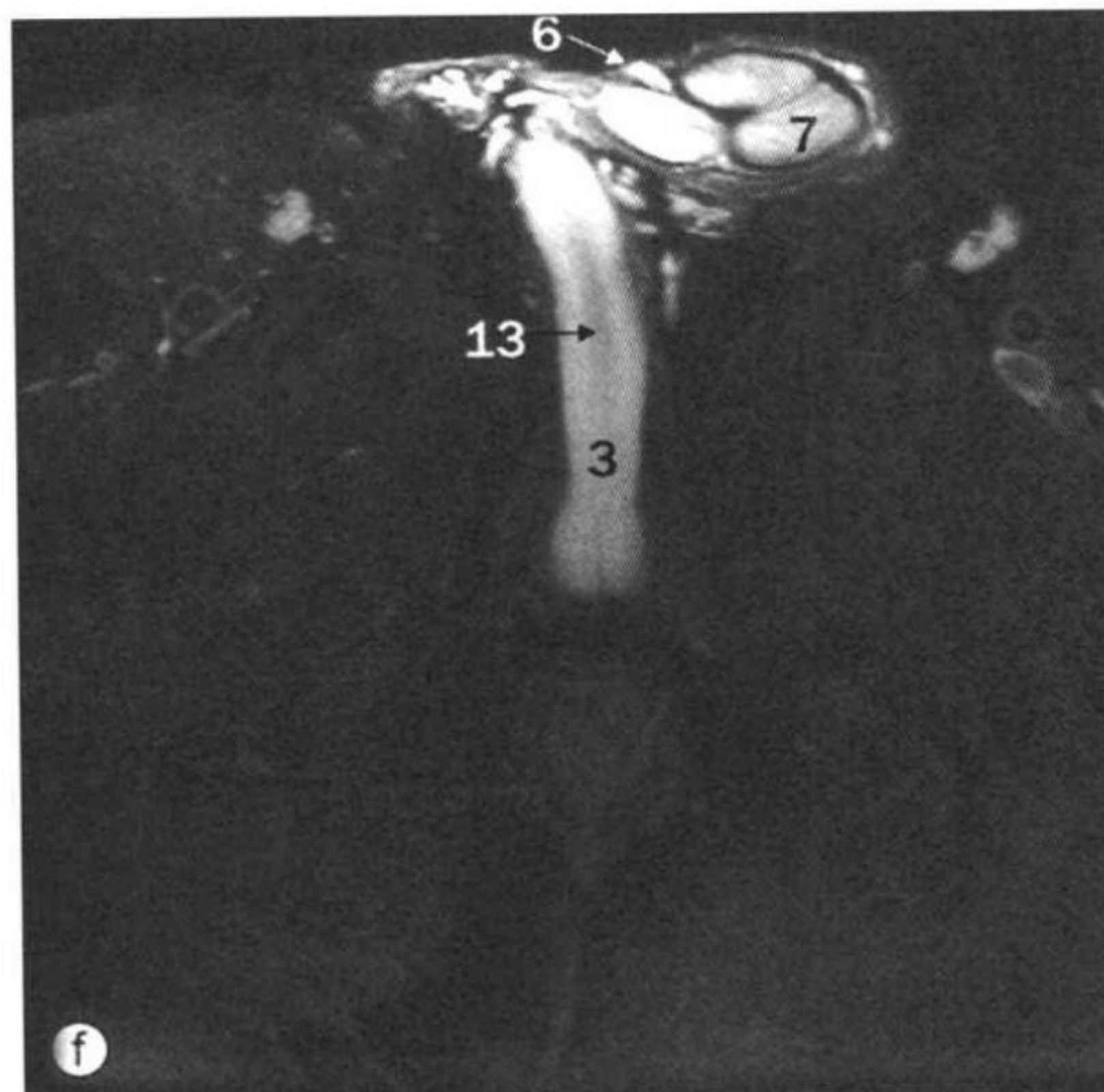
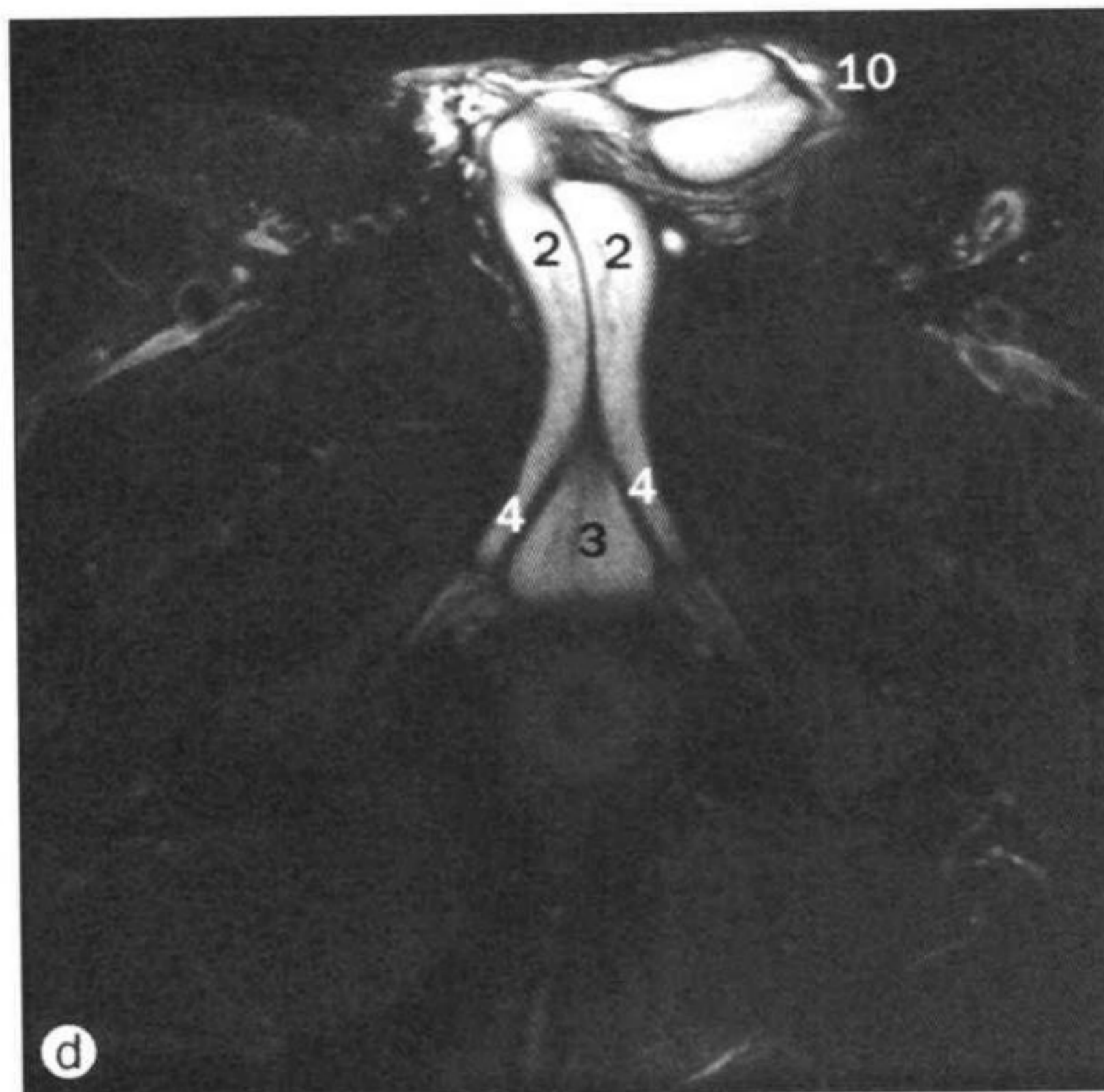
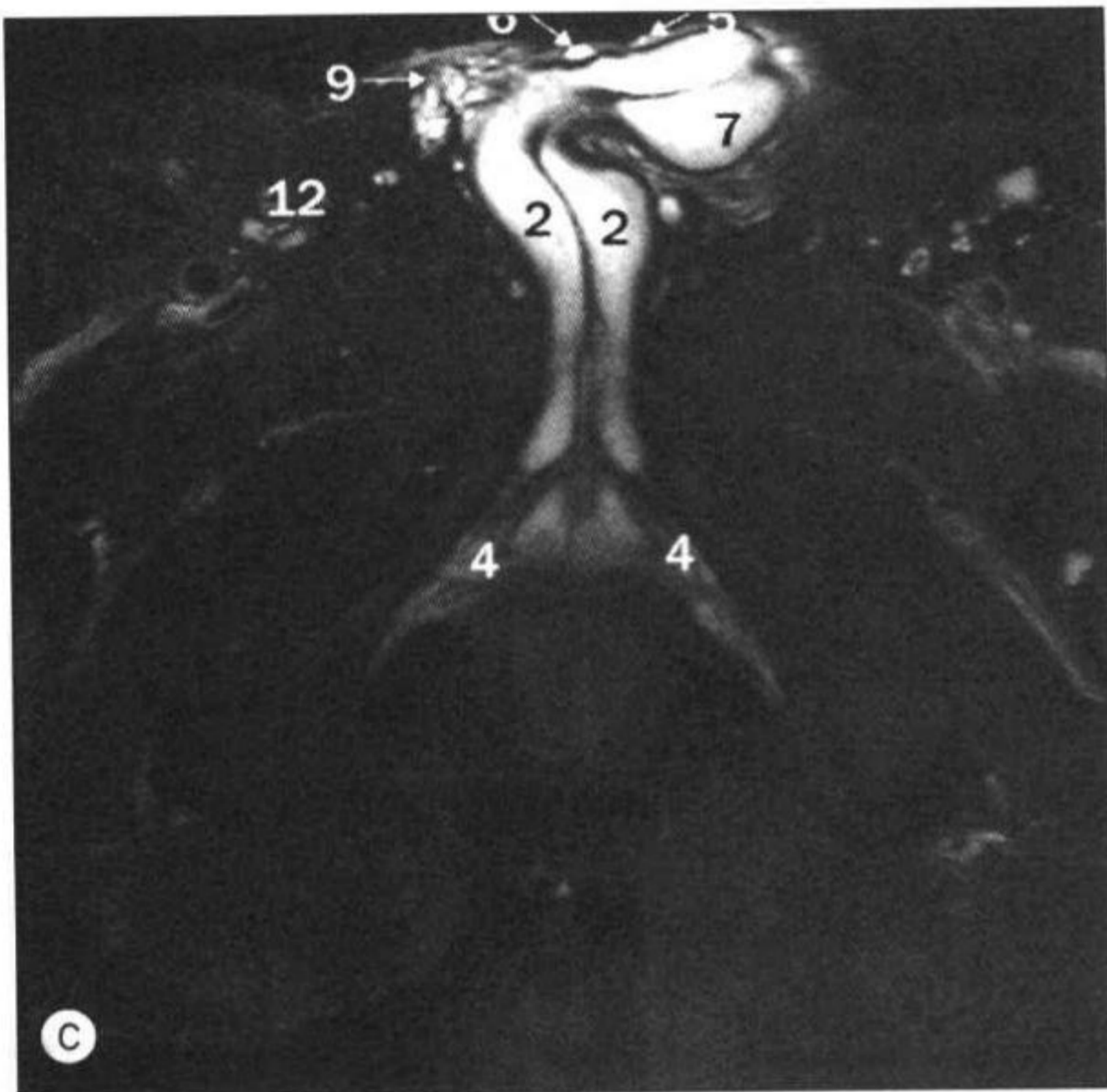


c. 海绵体造影。

- | | |
|----------------------------------|------------------------------------|
| 1 阴茎动脉 artery of the penis | 5 阴茎背动脉 dorsal artery of the penis |
| 2 海绵体 corpus cavernosum | 6 阴茎背静脉 internal pudendal artery |
| 3 海绵体脚 crus of corpus cavernosum | 7 会阴动脉 perineal artery |
| 4 阴茎深动脉 deep artery of the penis | |

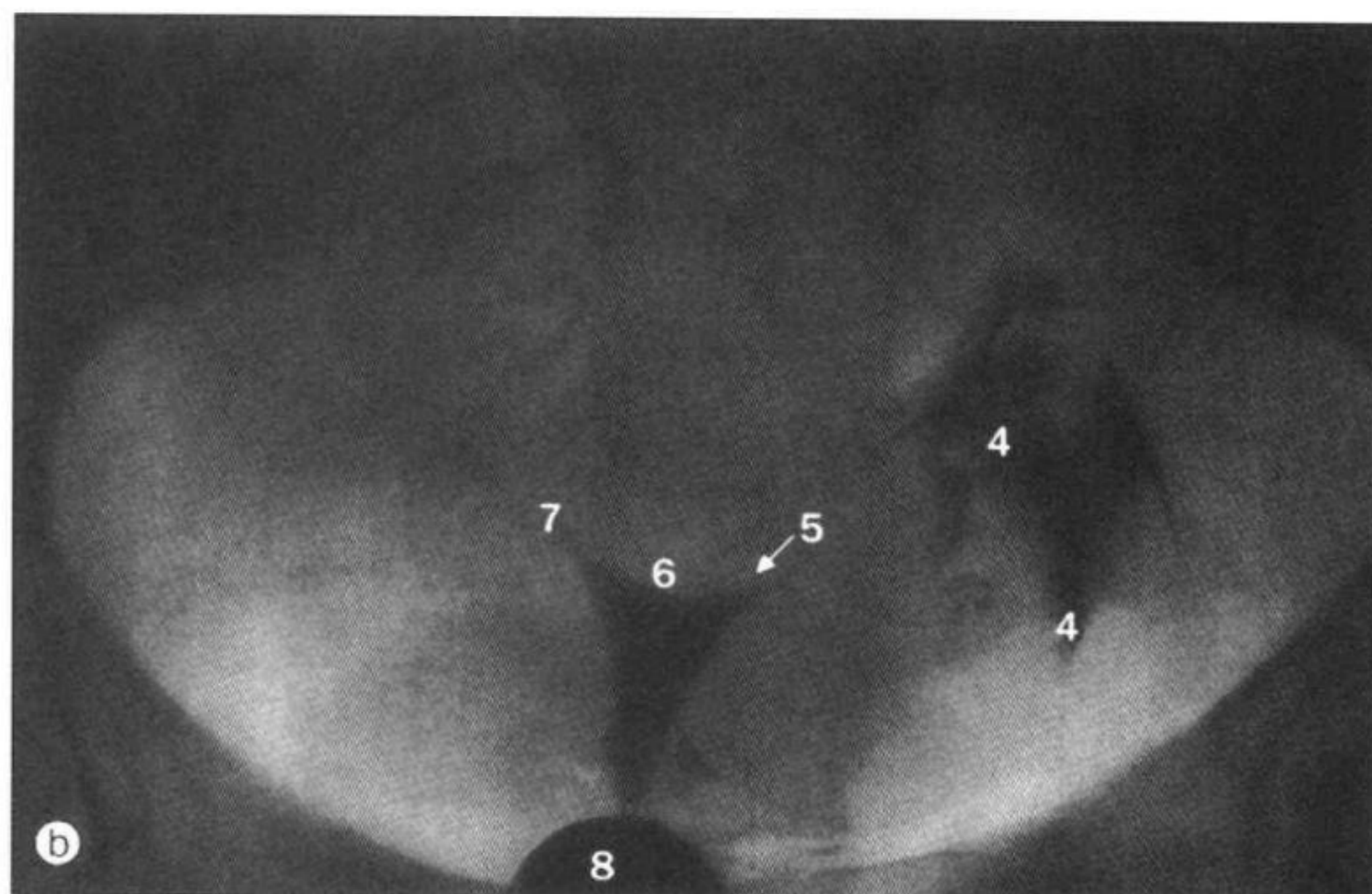
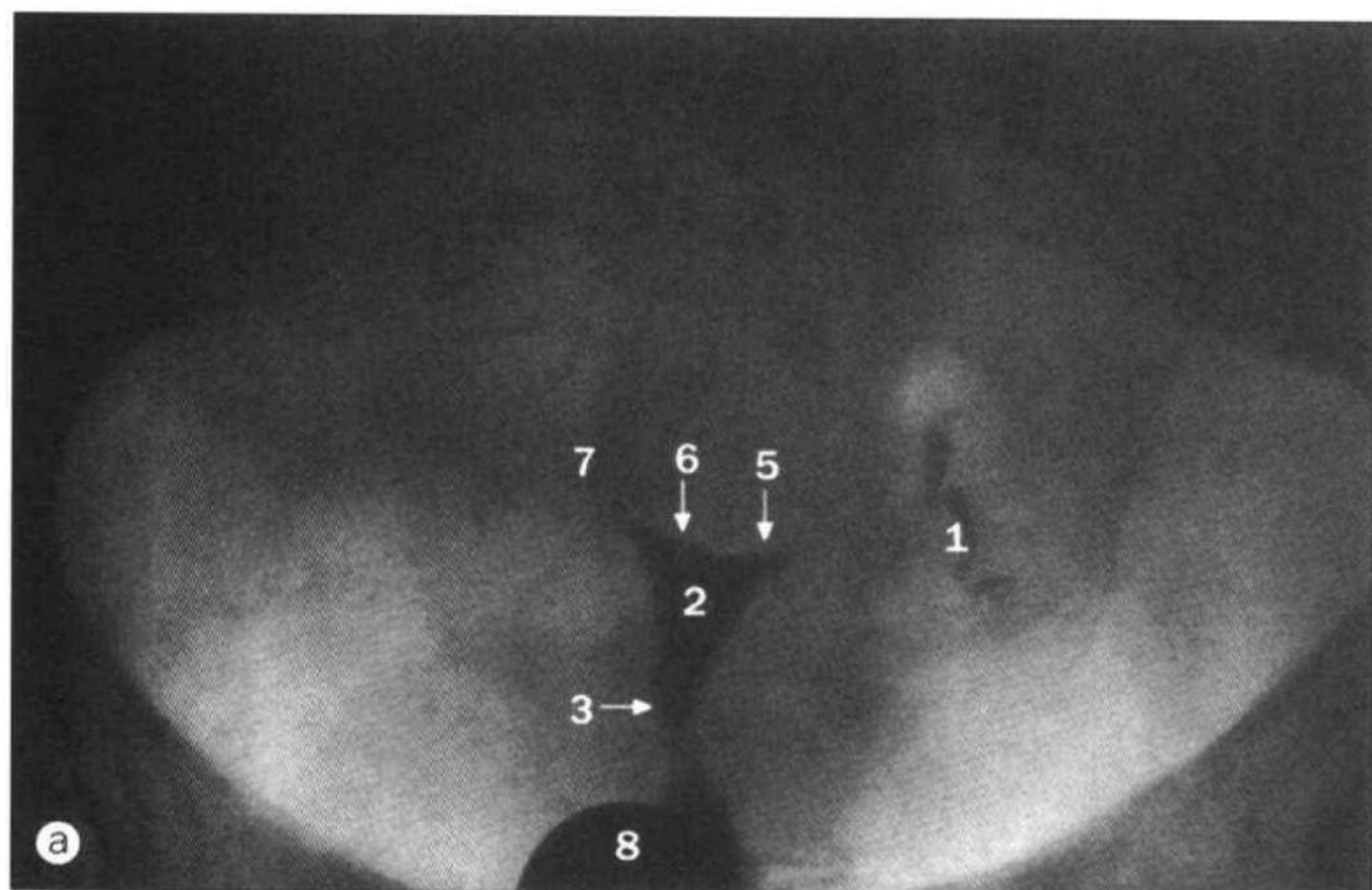


- 1 膀胱 bladder
- 2 海绵体 corpus cavernosum
- 3 尿道海绵体 corpus spongiosum
- 4 海绵体脚 crus of corpus cavernosum
- 5 阴茎背动脉 dorsal artery of penis
- 6 阴茎背静脉 dorsal vein of penis
- 7 阴茎头 glans of penis
- 8 肛提肌 levator ani muscle
- 9 蔓状静脉丛 pampiniform plexus of veins
- 10 阴茎 penis
- 11 前列腺 prostate
- 12 精索 spermatic cord
- 13 尿道 urethra



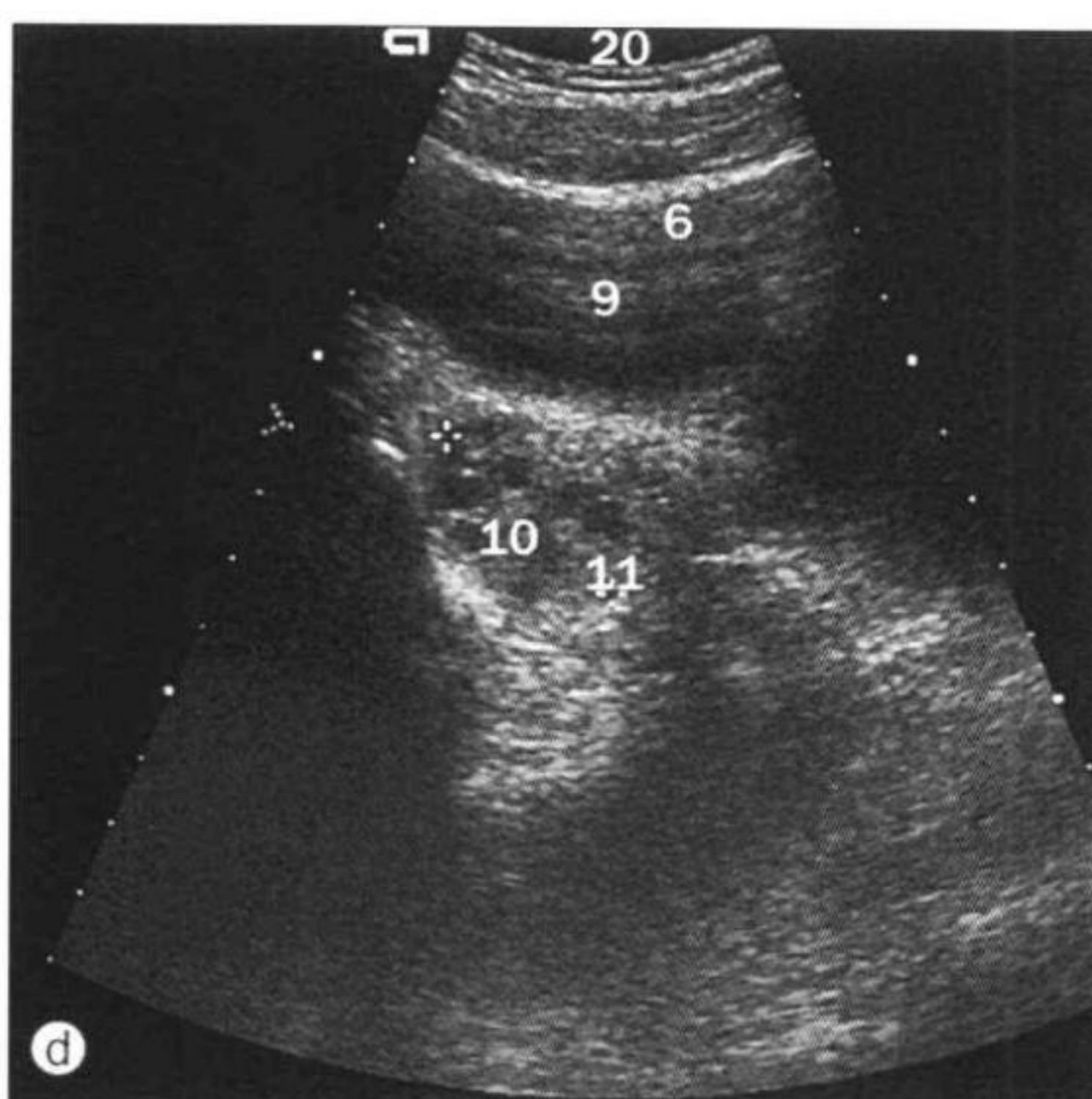
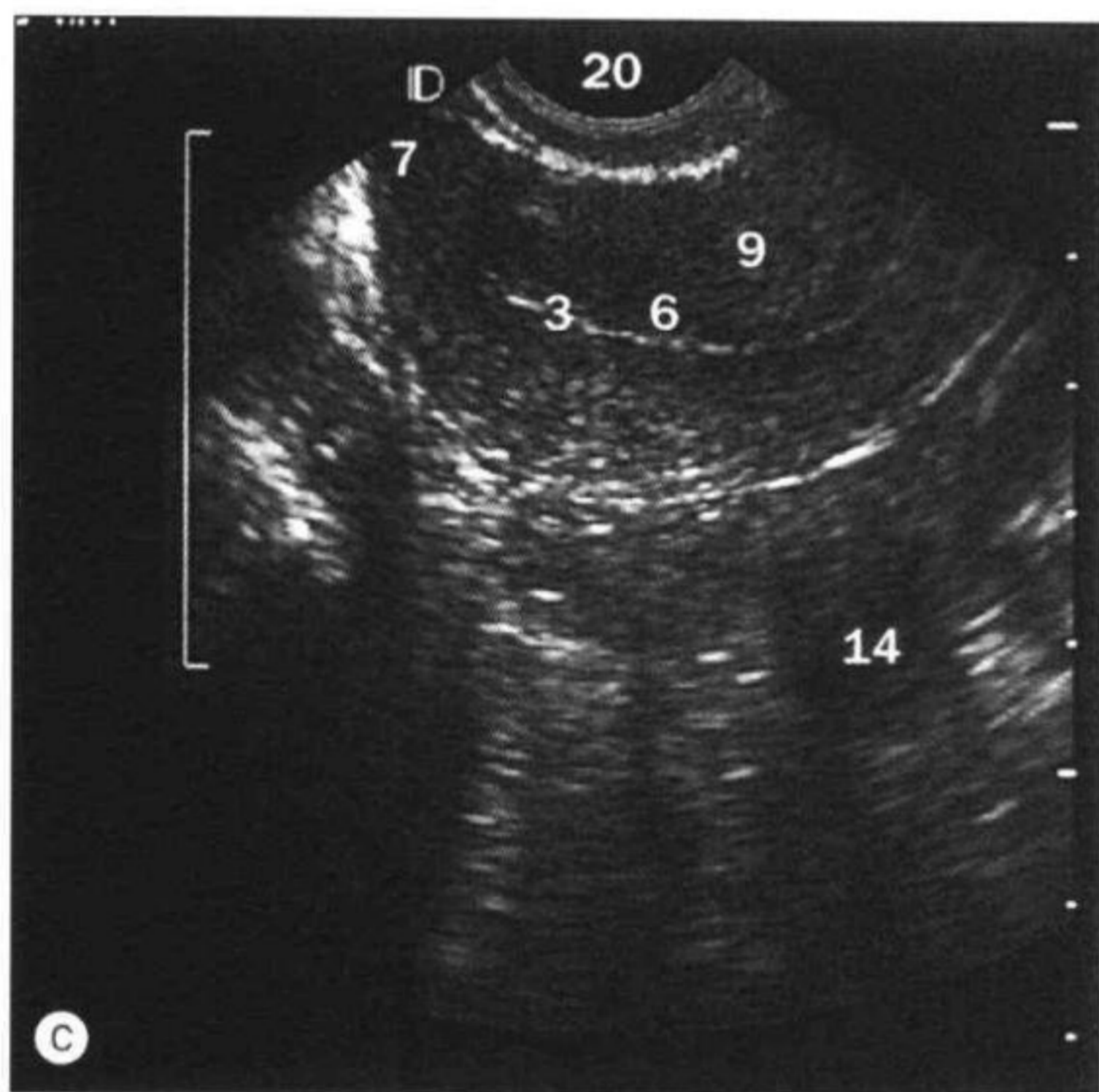
a~b. 男性生殖器，冠状位 MRI。

c~f. 男性生殖器，轴位 MRI。

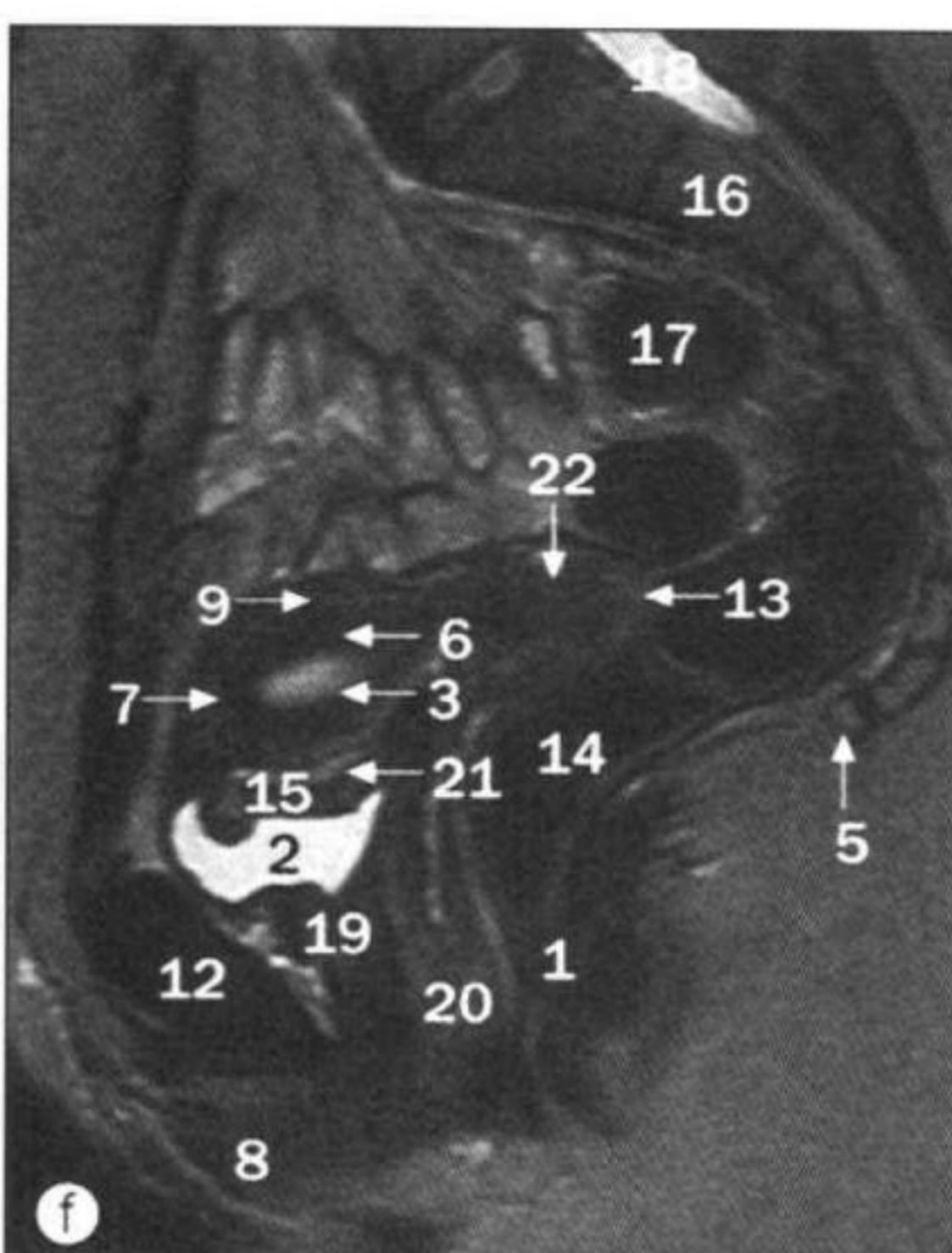
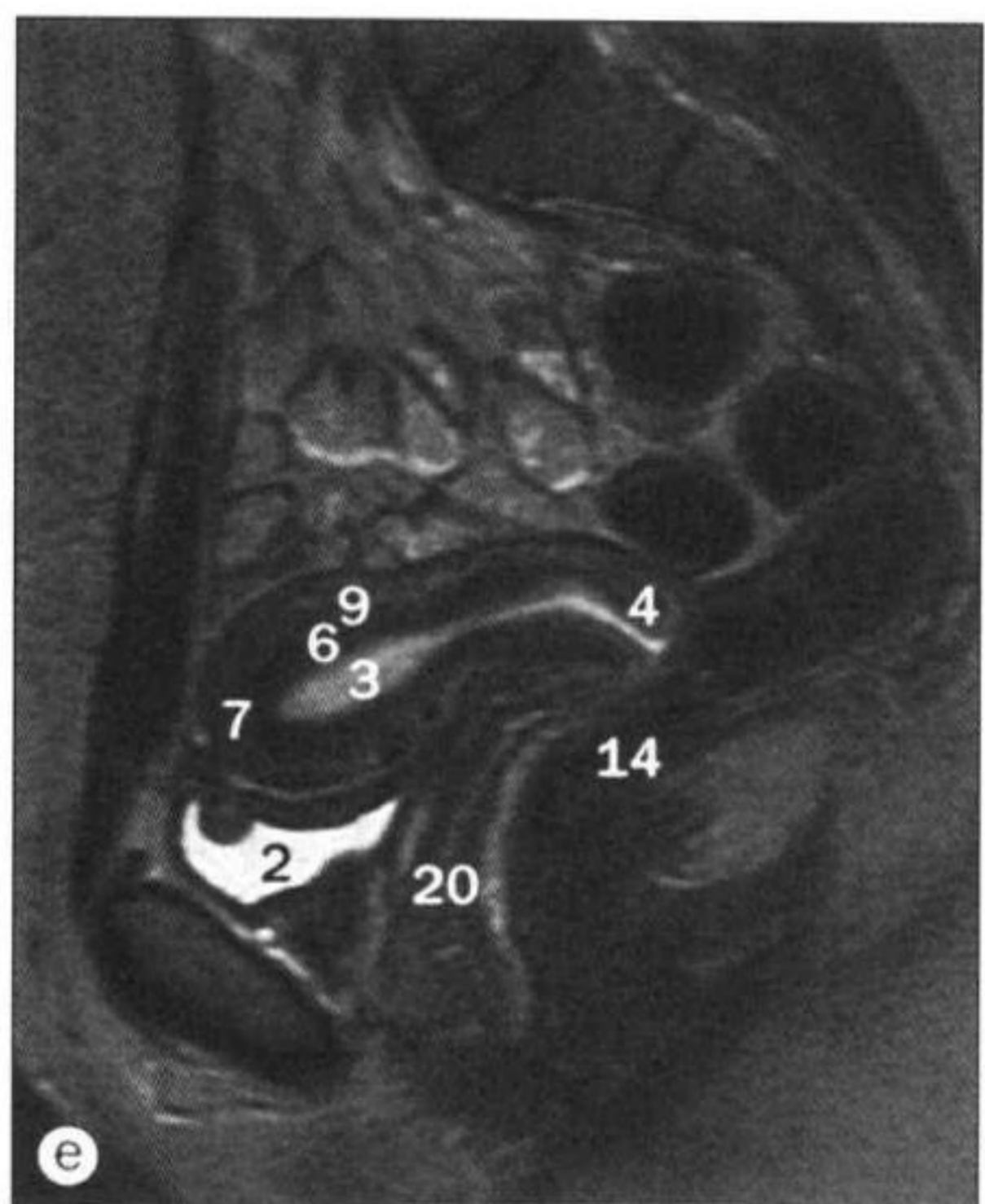


子宫输卵管造影。a. 注射即刻；b. 注射后数分钟。

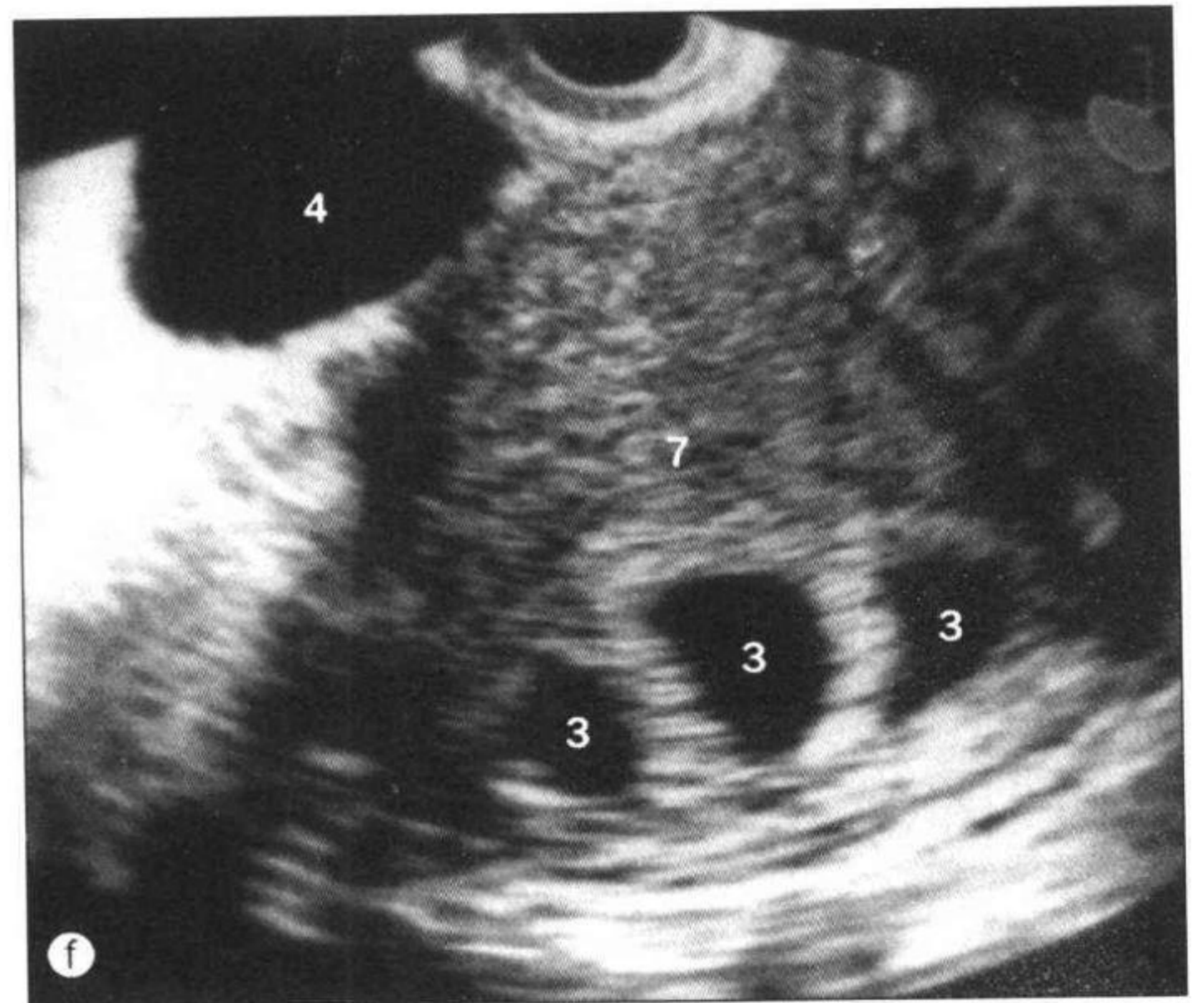
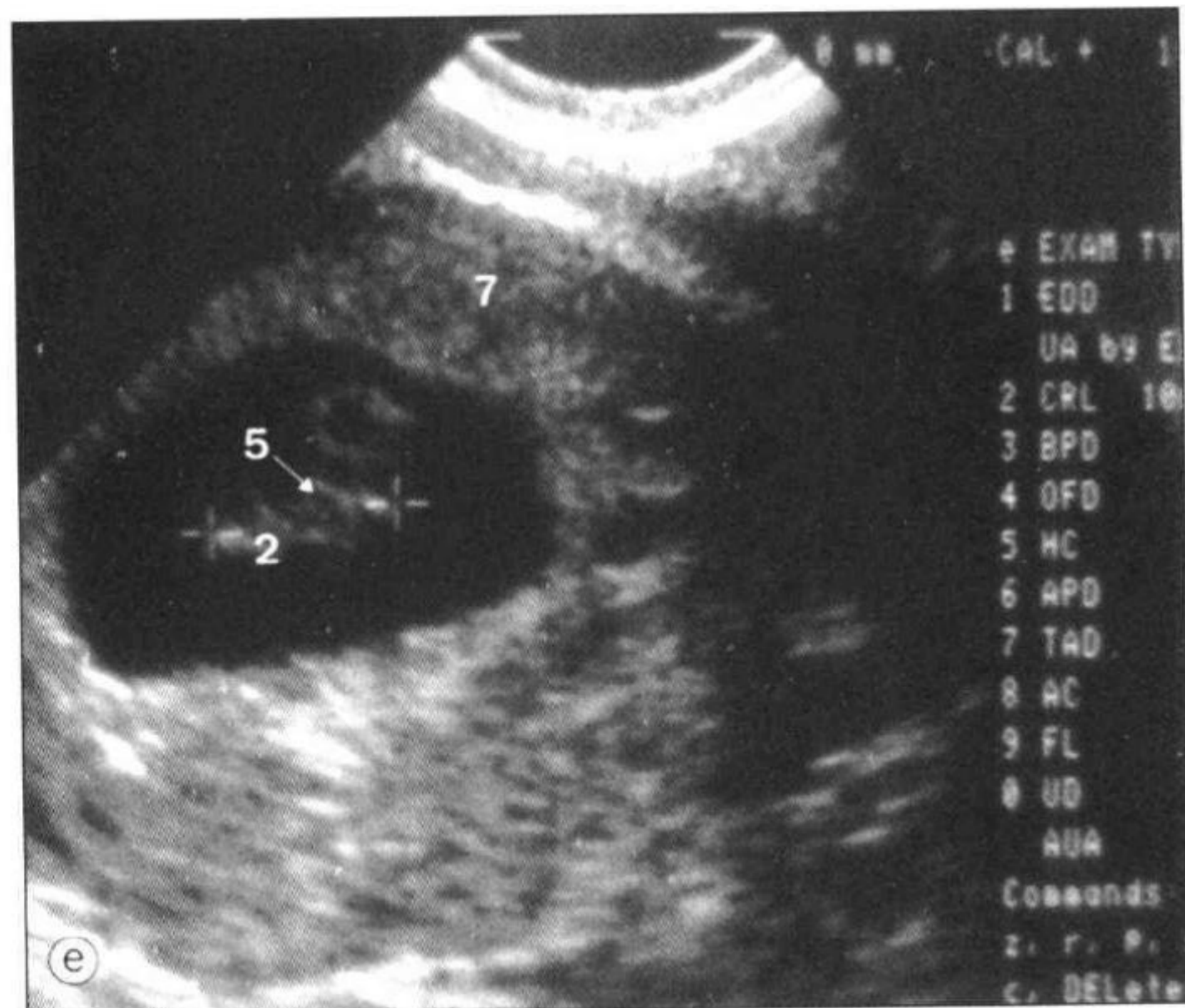
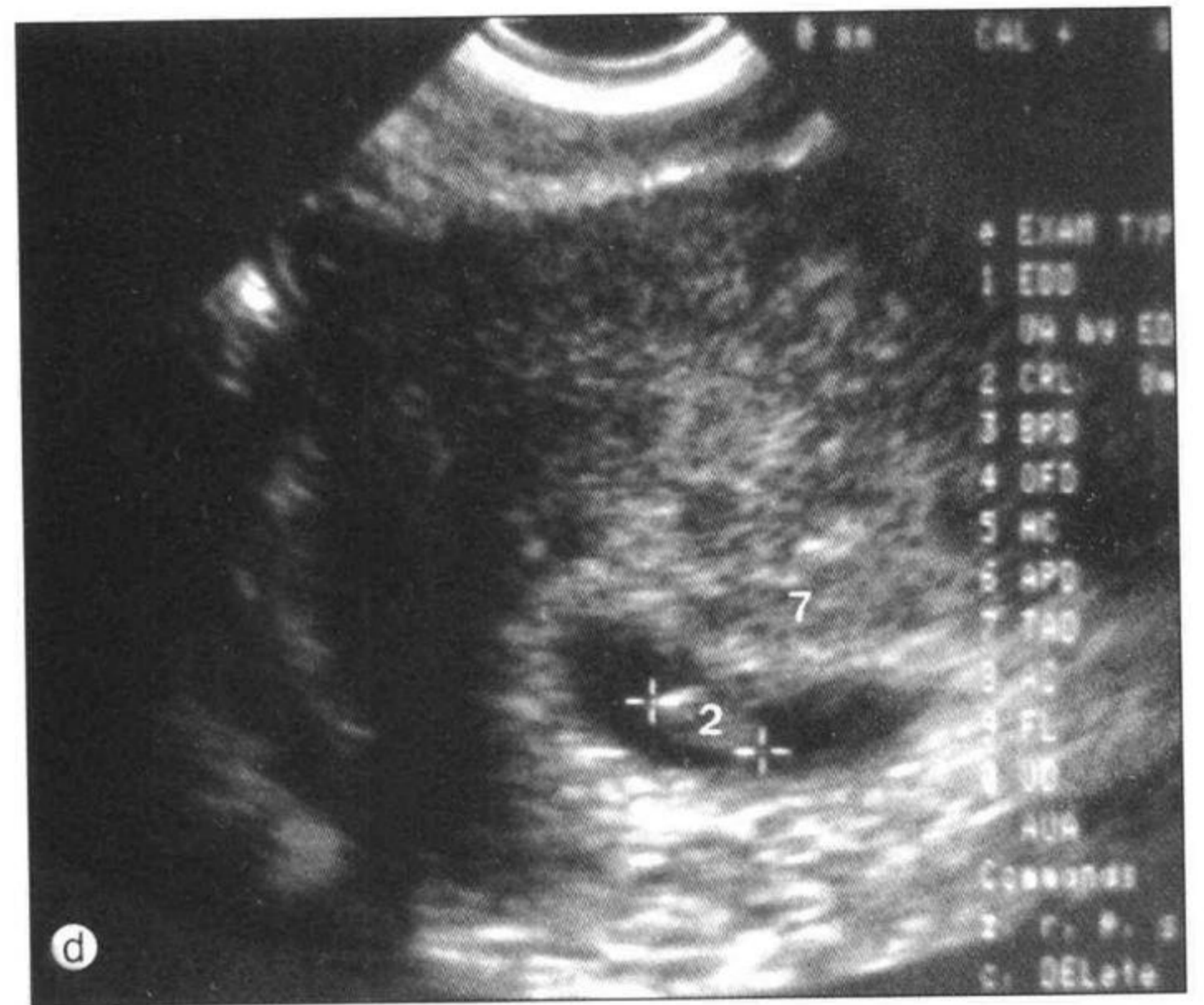
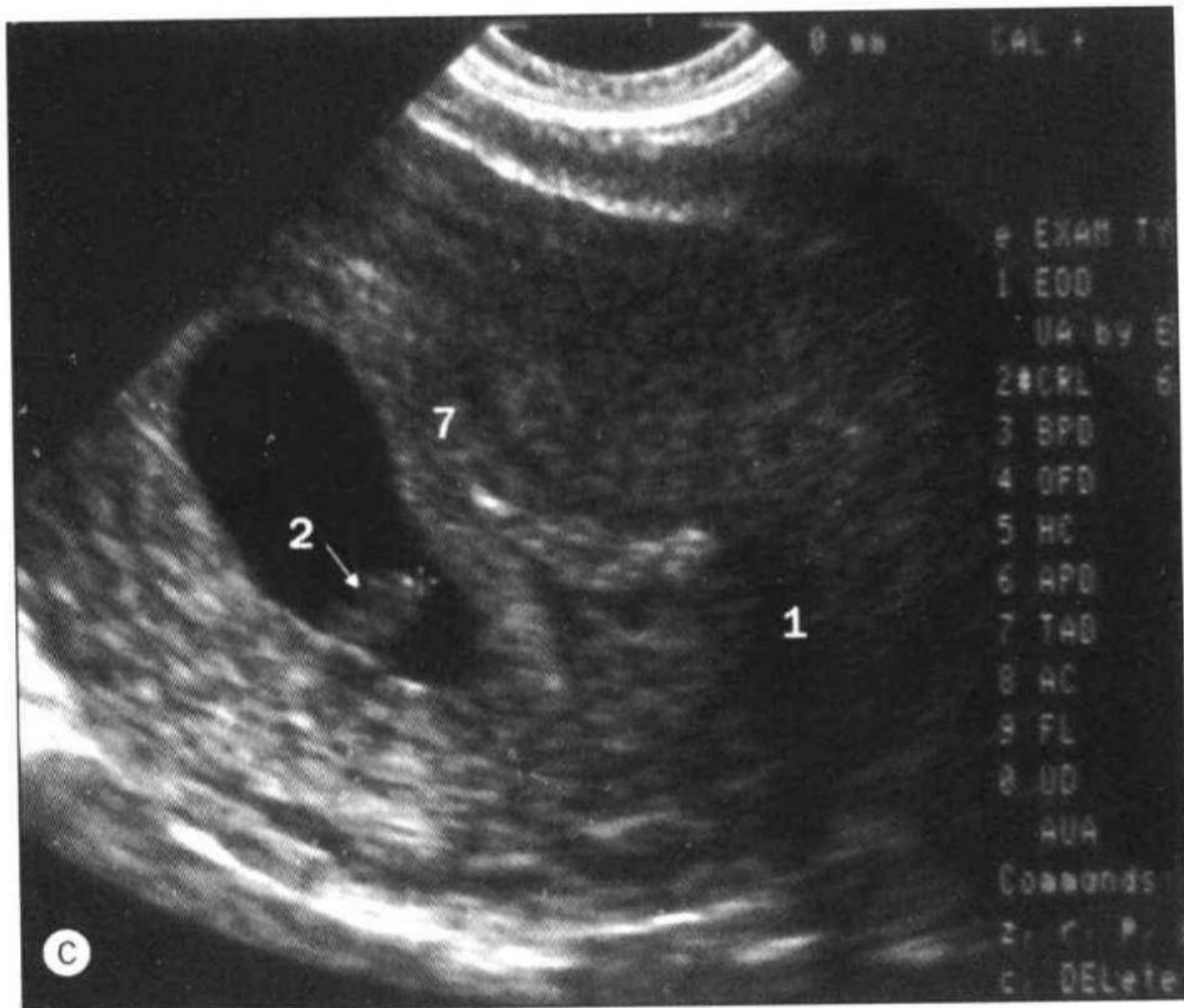
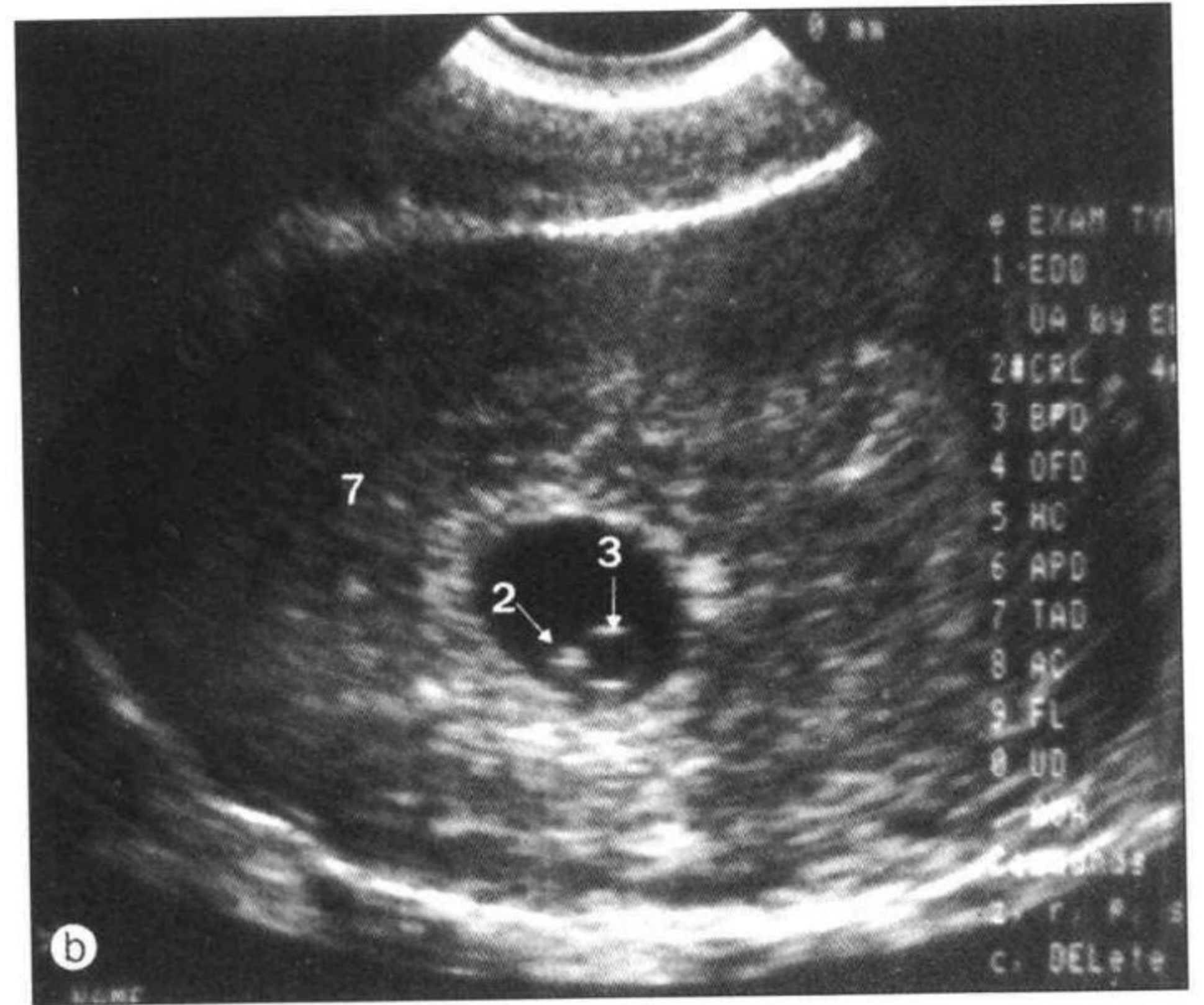
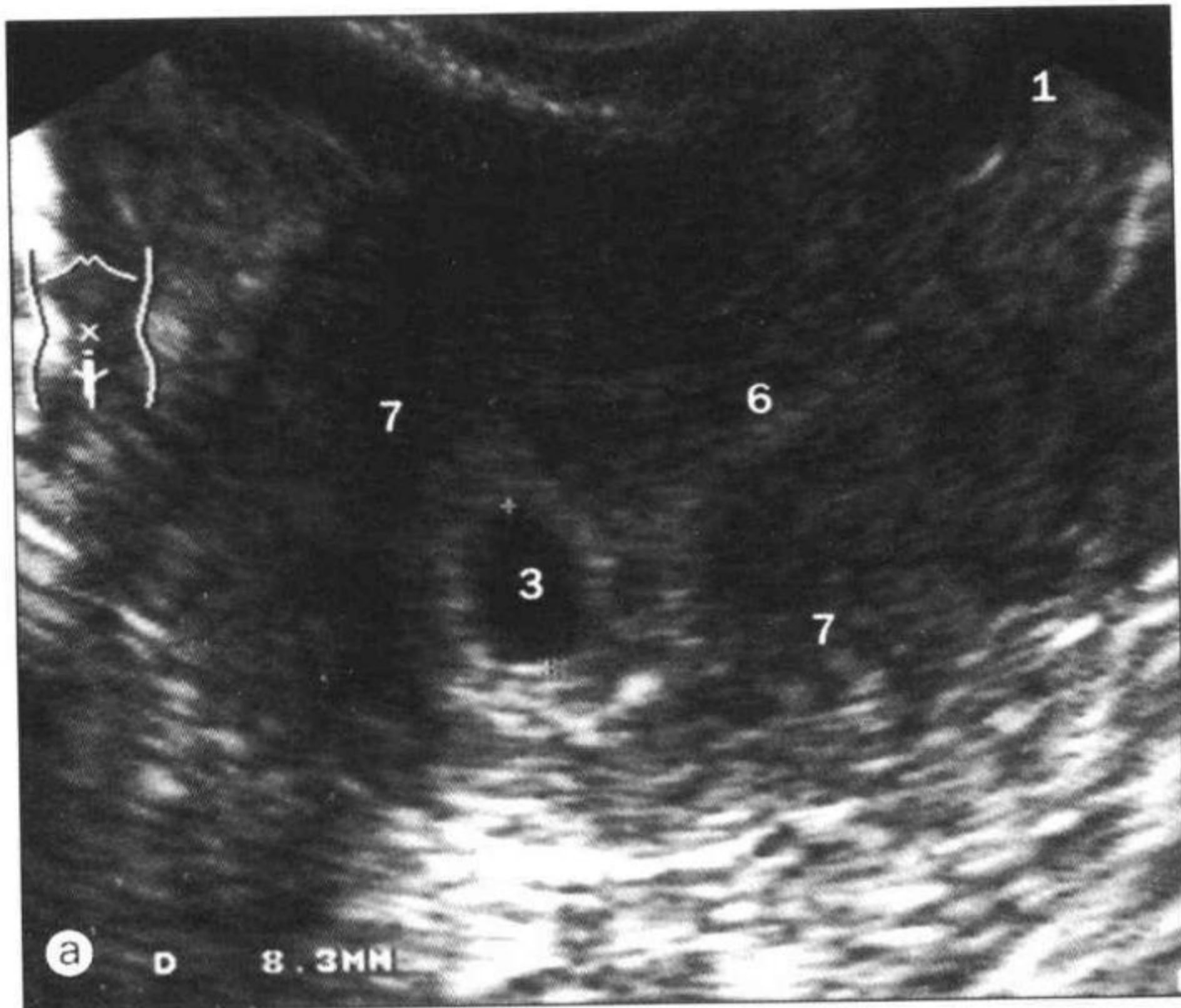
- 1 输卵管壶腹 ampulla of uterine tube
- 2 子宫体 body of uterus
- 3 子宫颈 cervix of uterus
- 4 腹腔内对比剂 contrast spillage into peritoneal cavity
- 5 子宫角 cornu of uterus
- 6 子宫底 fundus of uterus
- 7 输卵管峡部 isthmus of uterine tube
- 8 阴道镜 speculum in vagina



c, d. 经阴道子宫超声。
e, f. 女性盆部，矢状位 MRI。



- 1 肛管 anal canal
- 2 膀胱 bladder
- 3 子宫腔 cavity of uterus
- 4 子宫颈 cervix of uterus
- 5 尾骨 coccyx
- 6 子宫内膜 endometrium
- 7 子宫底 fundus of uterus
- 8 大阴唇 labium majus
- 9 子宫肌层 myometrium of uterus
- 10 卵泡 ovarian follicle
- 11 卵巢 ovary
- 12 耻骨联合 pubic symphysis
- 13 直肠子宫陷凹 recto-uterine pouch
- 14 直肠 rectum
- 15 子宫圆韧带 round ligament of uterus
- 16 骶骨 sacrum
- 17 乙状结肠 sigmoid colon
- 18 硬脊膜囊 thecal sac
- 19 尿道 urethra
- 20 阴道 vagina
- 21 膀胱子宫陷凹 vesico-uterine pouch
- 22 子宫颈壁 wall of cervix



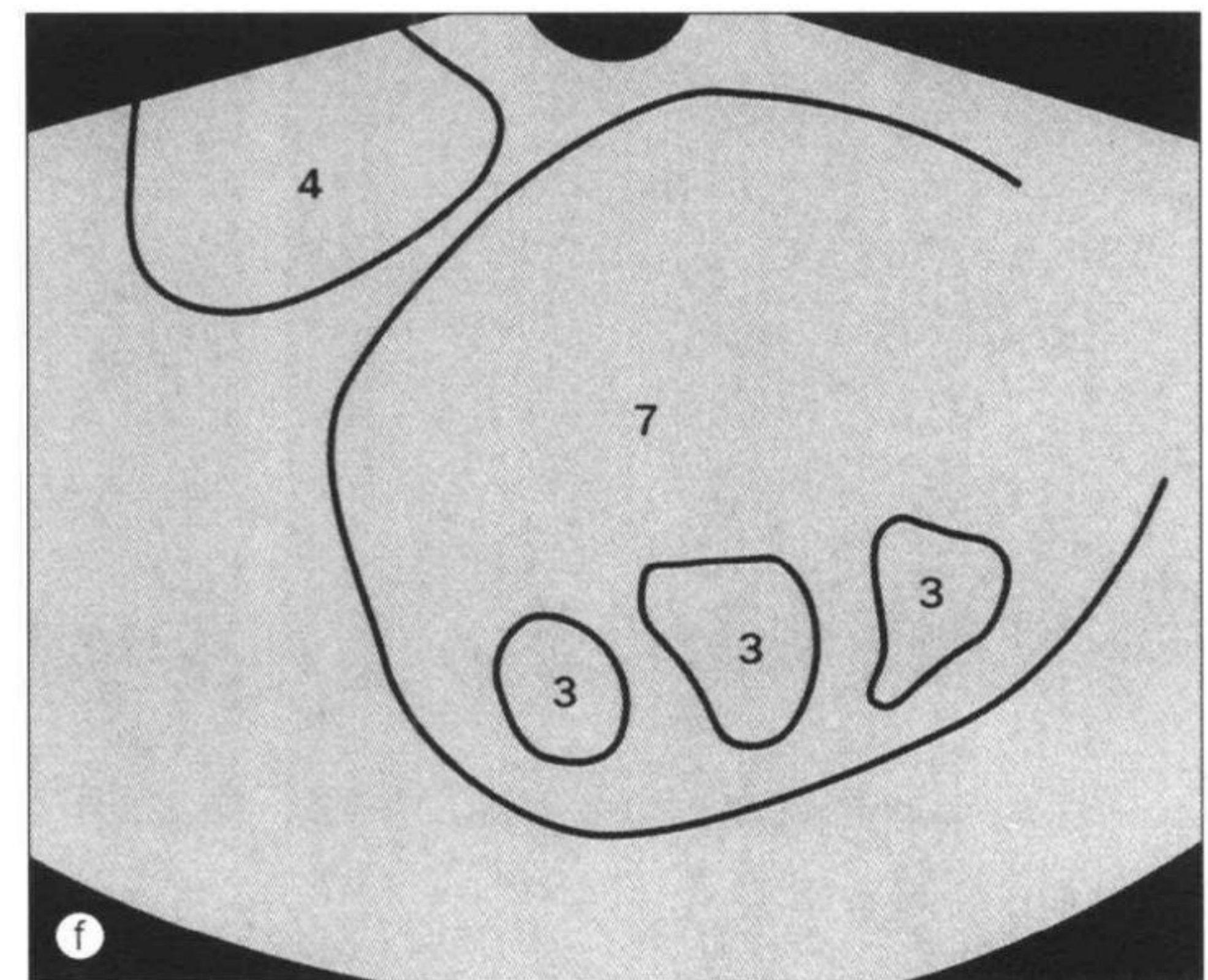
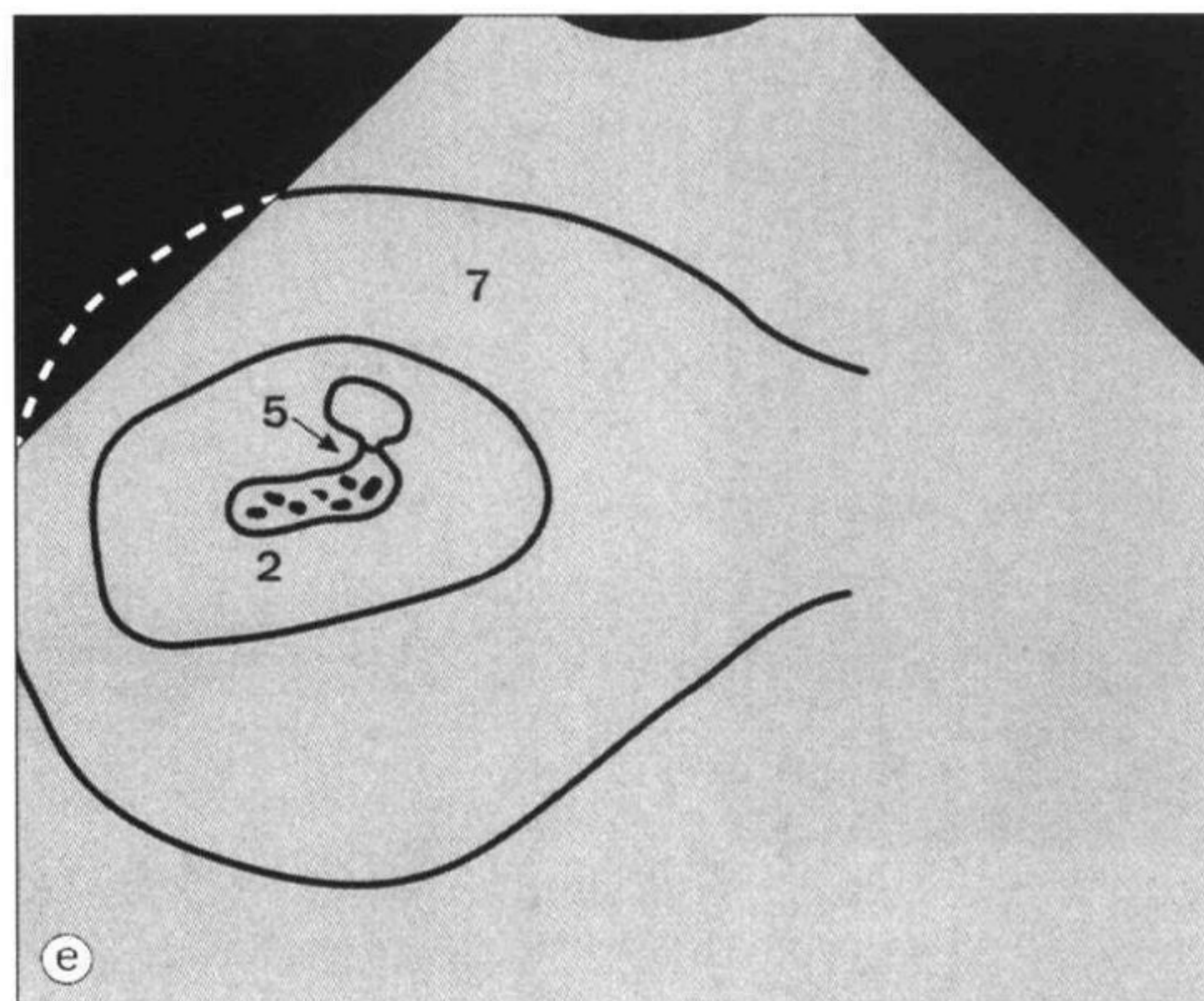
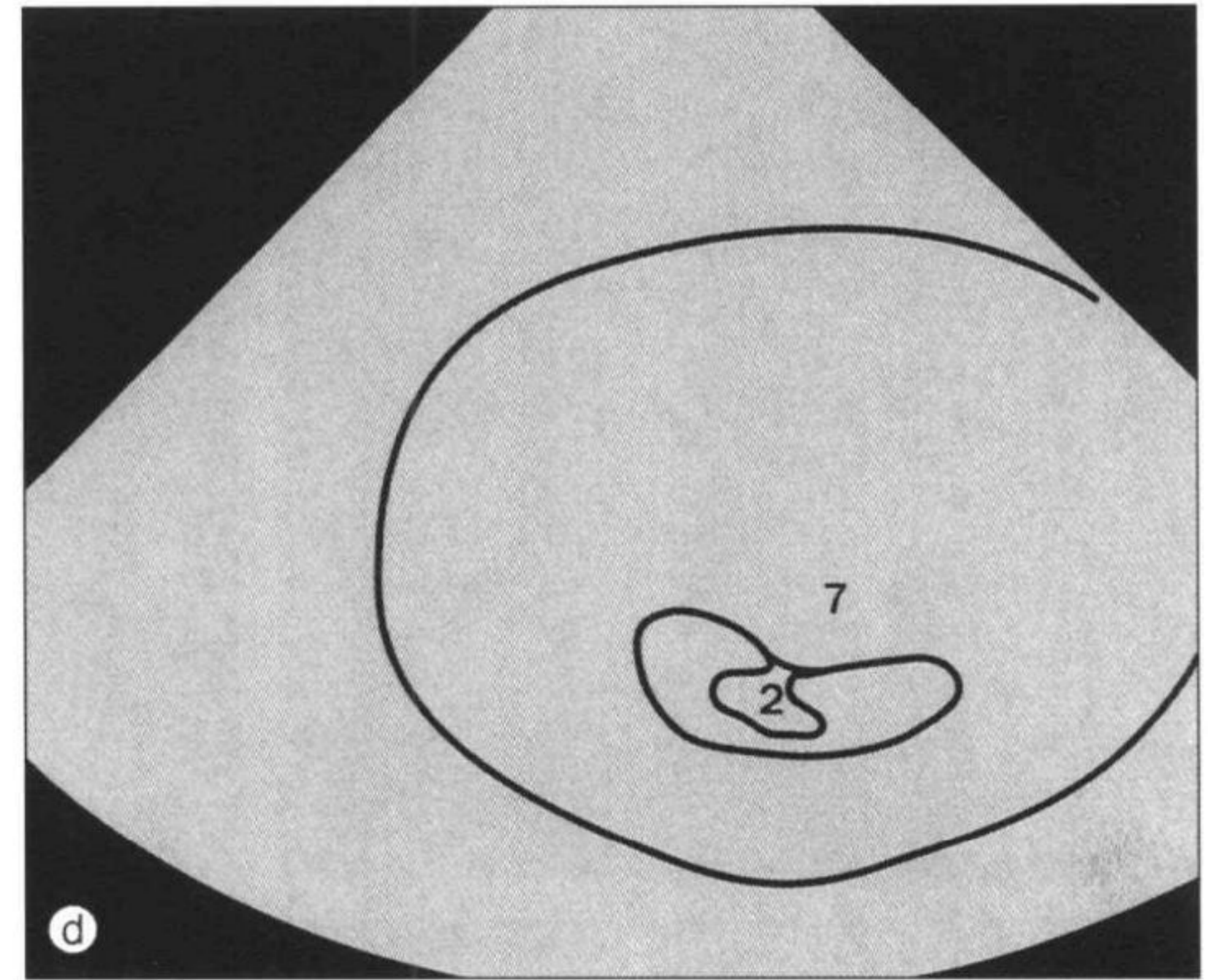
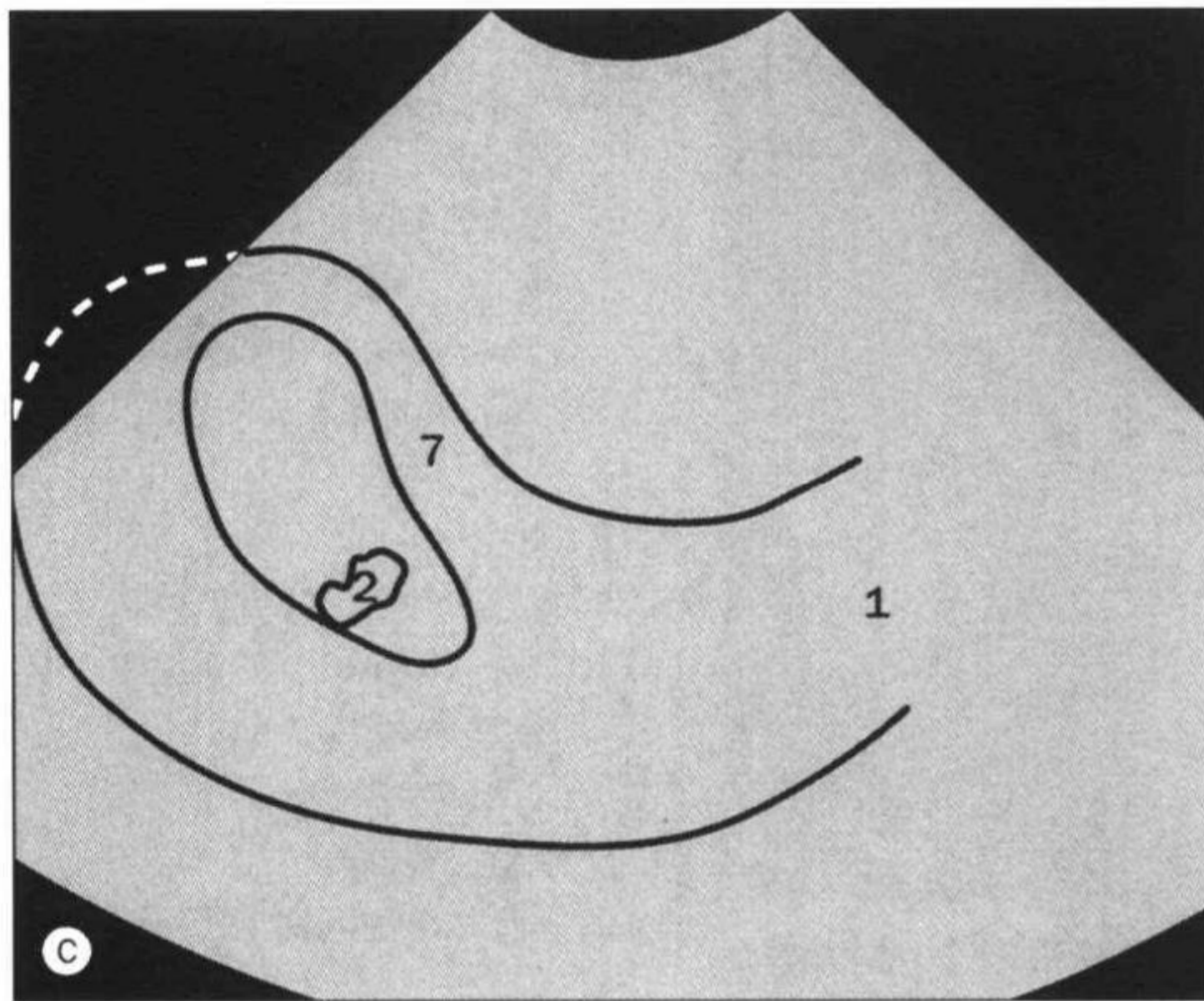
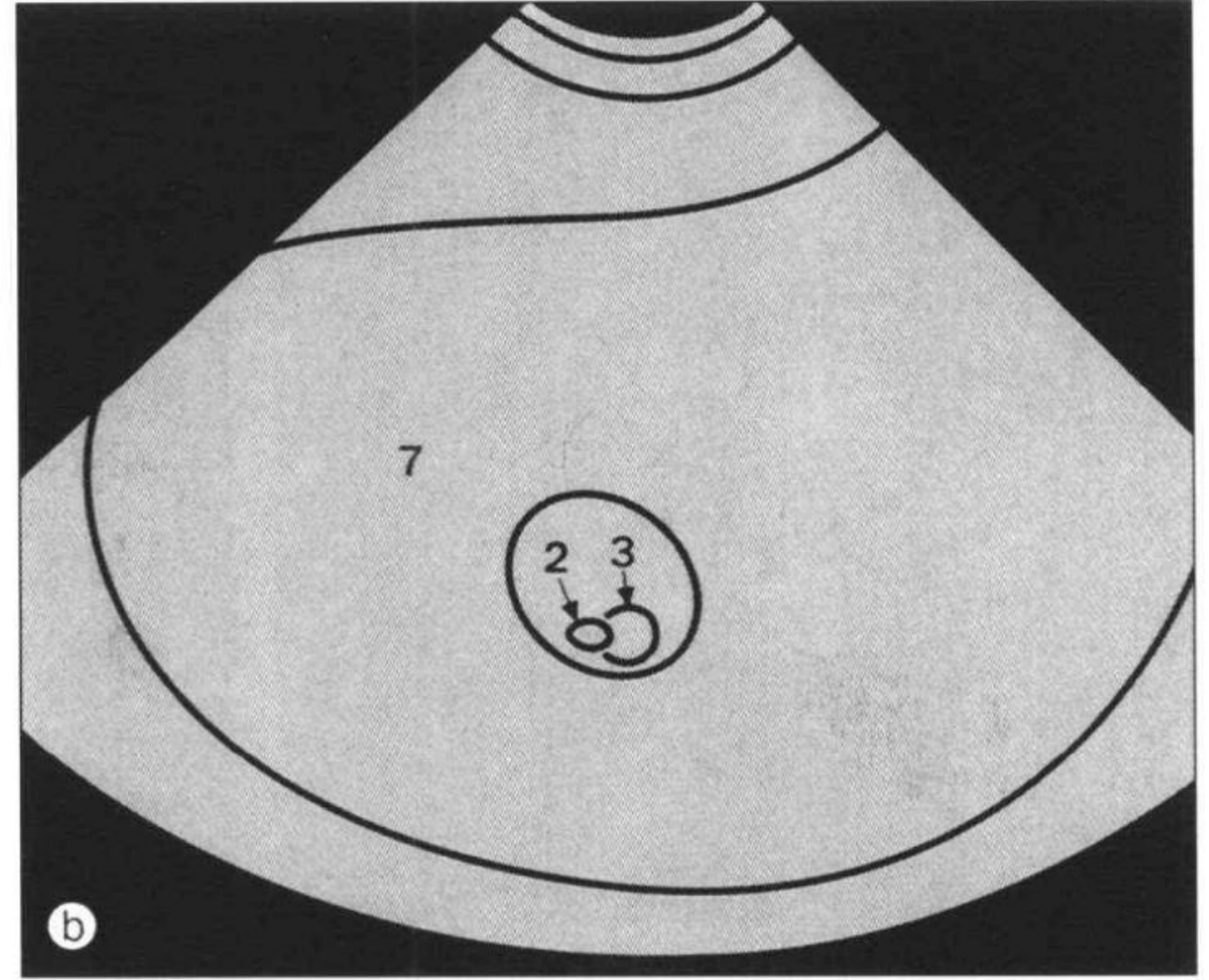
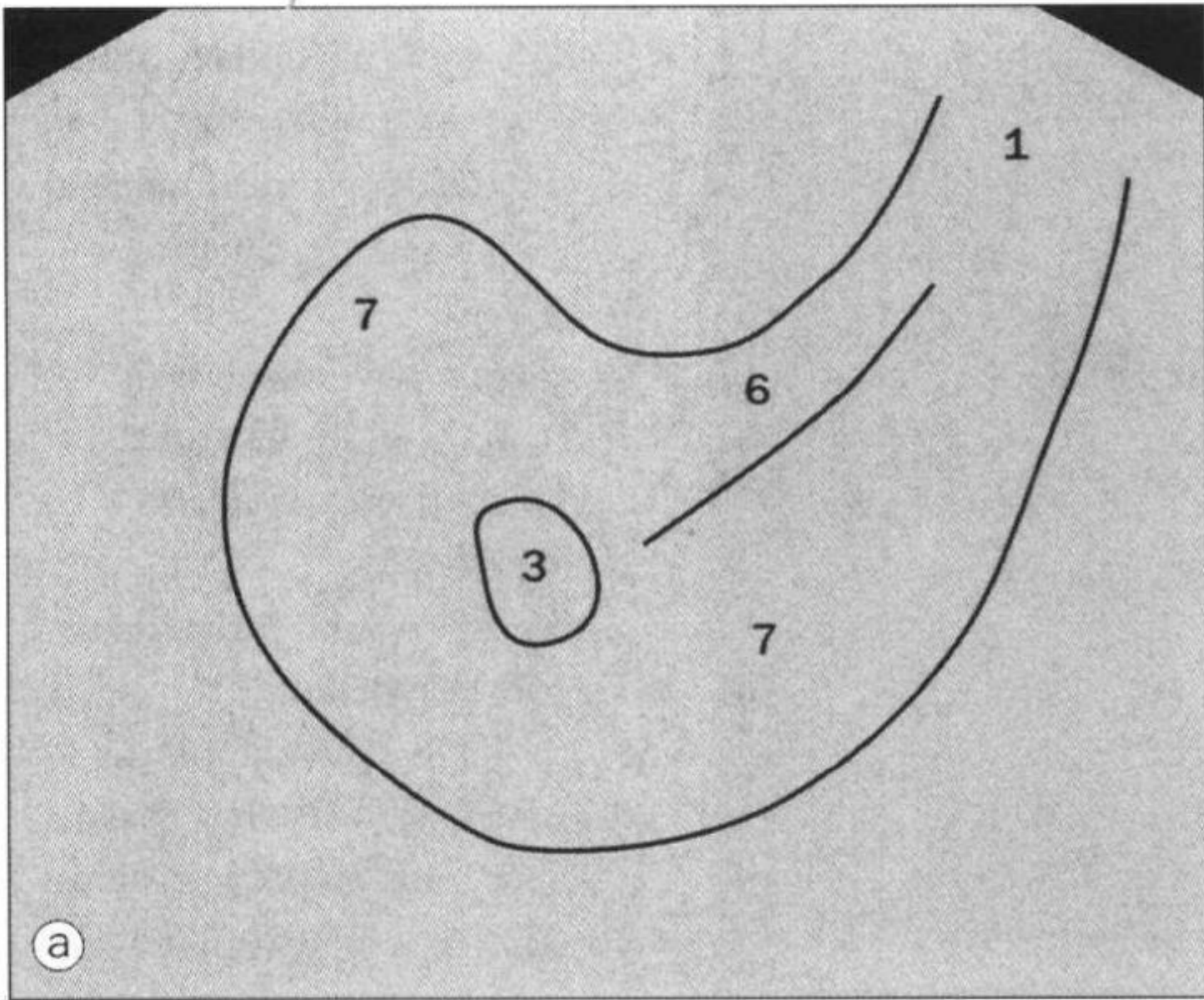
a. 8mm 胎囊 = (5 周 +3 天) 胎龄。 b. CRL (顶臀长) =4mm=6 周胎龄。 c. CRL=6mm= (6 周 +3 天) 胎龄。
 d. CRL=8mm= (6 周 +5 天) 胎龄。 e. CRL=10mm= (7 周 +2 天) 胎龄。 f. 三胎——3 个单独的胎囊。

1 子宫颈 cervix
 2 胎儿 fetus

3 胎囊 gestation sac
 4 母体膀胱 maternal bladder

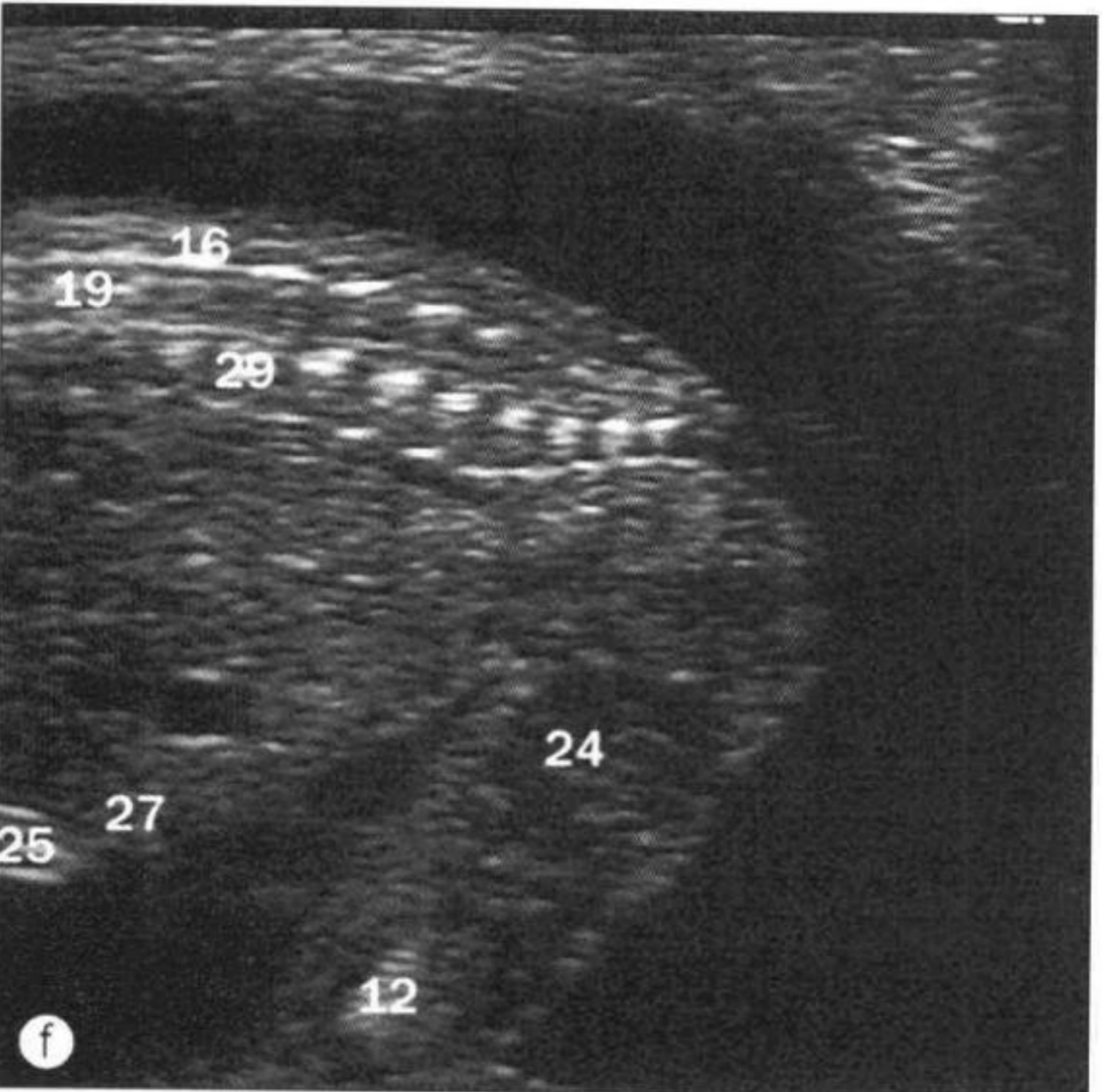
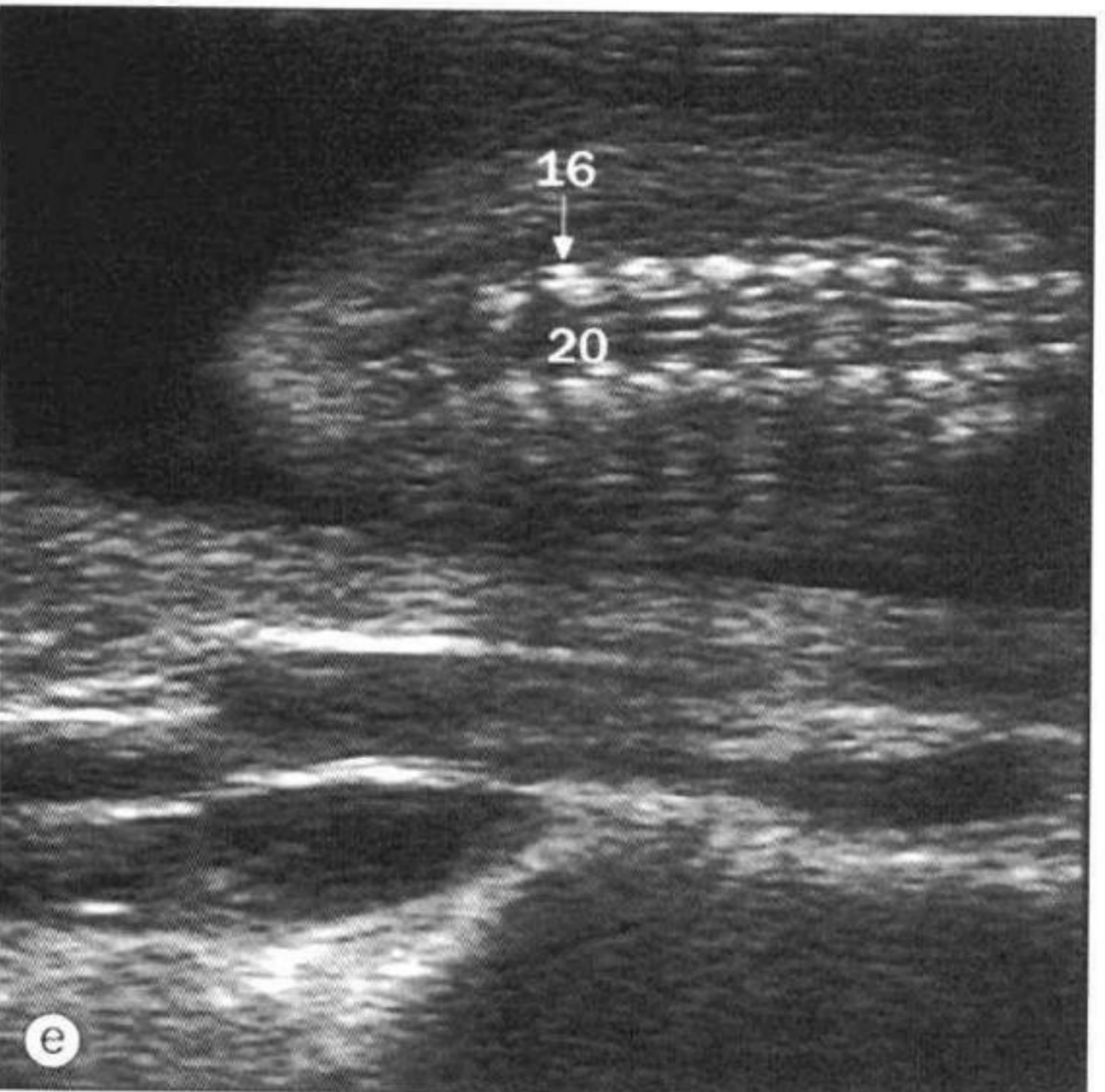
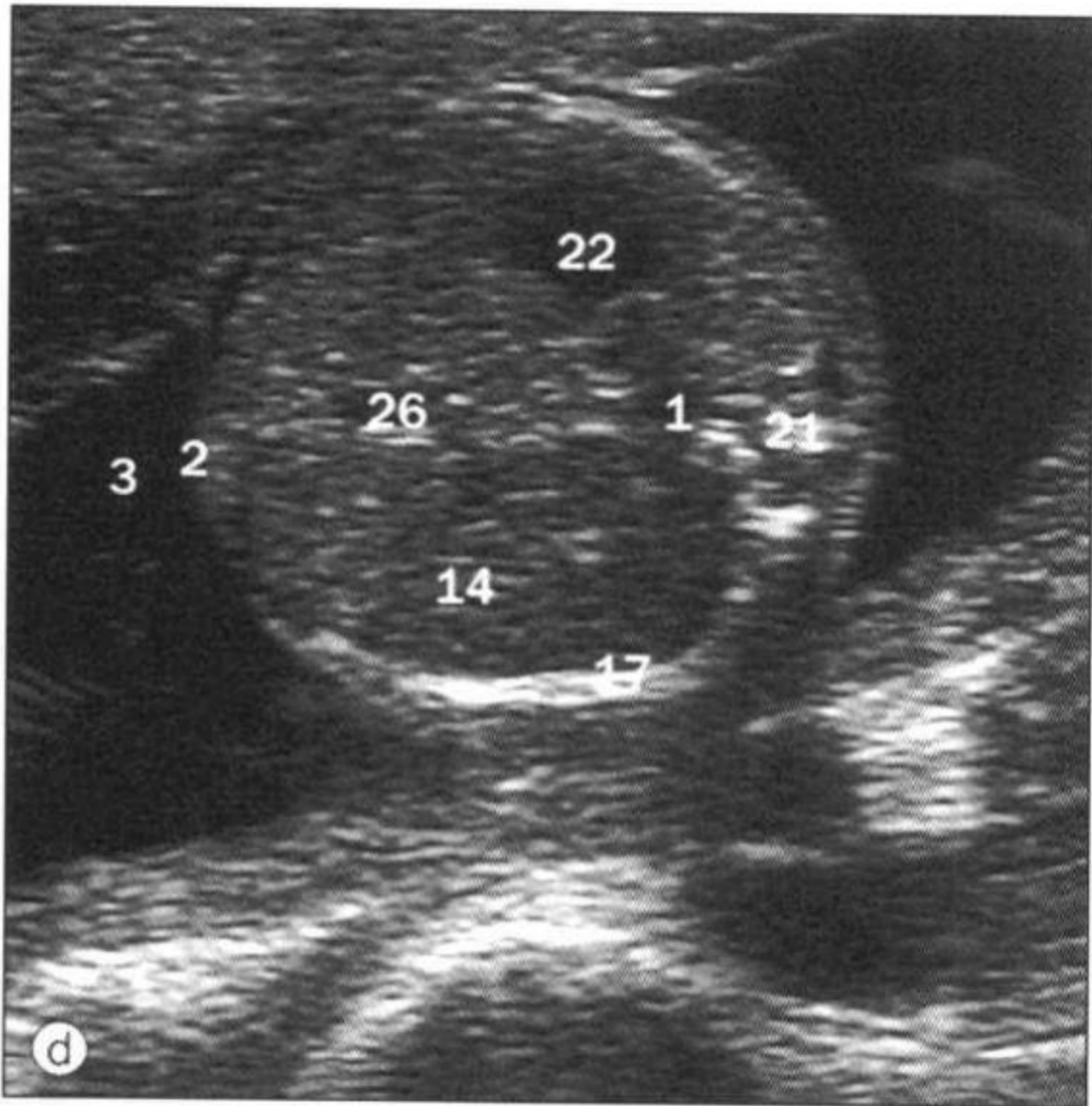
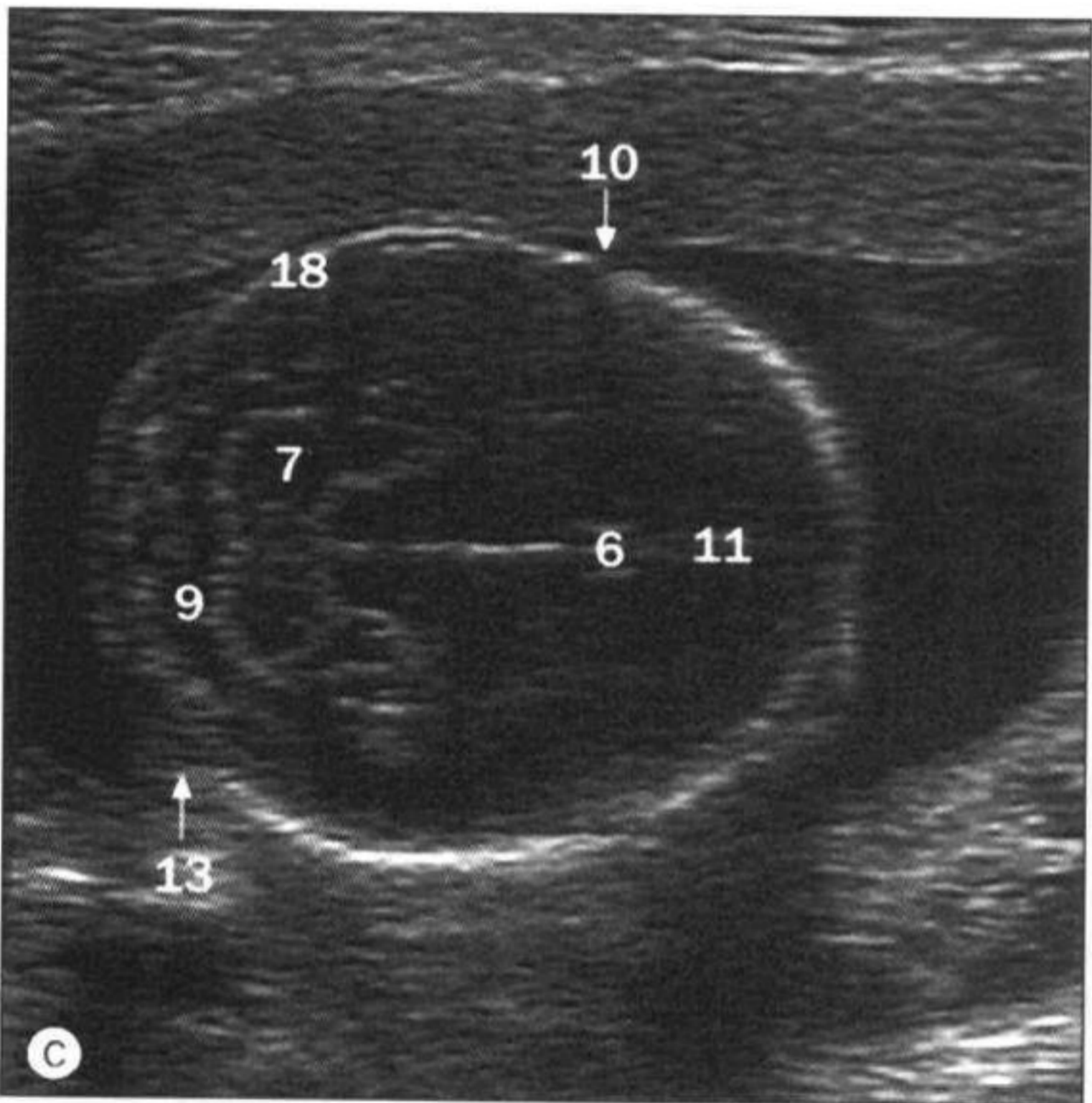
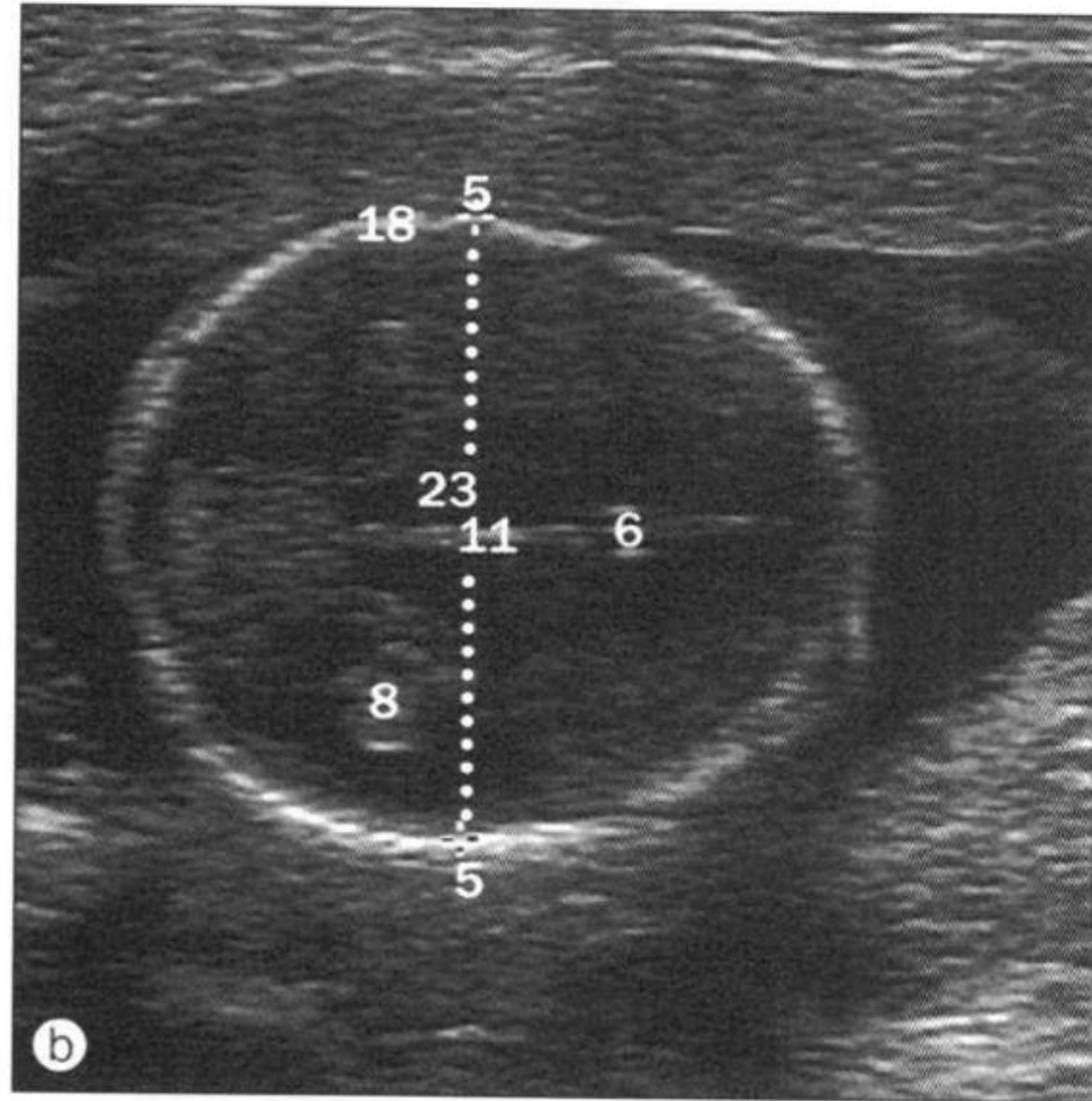
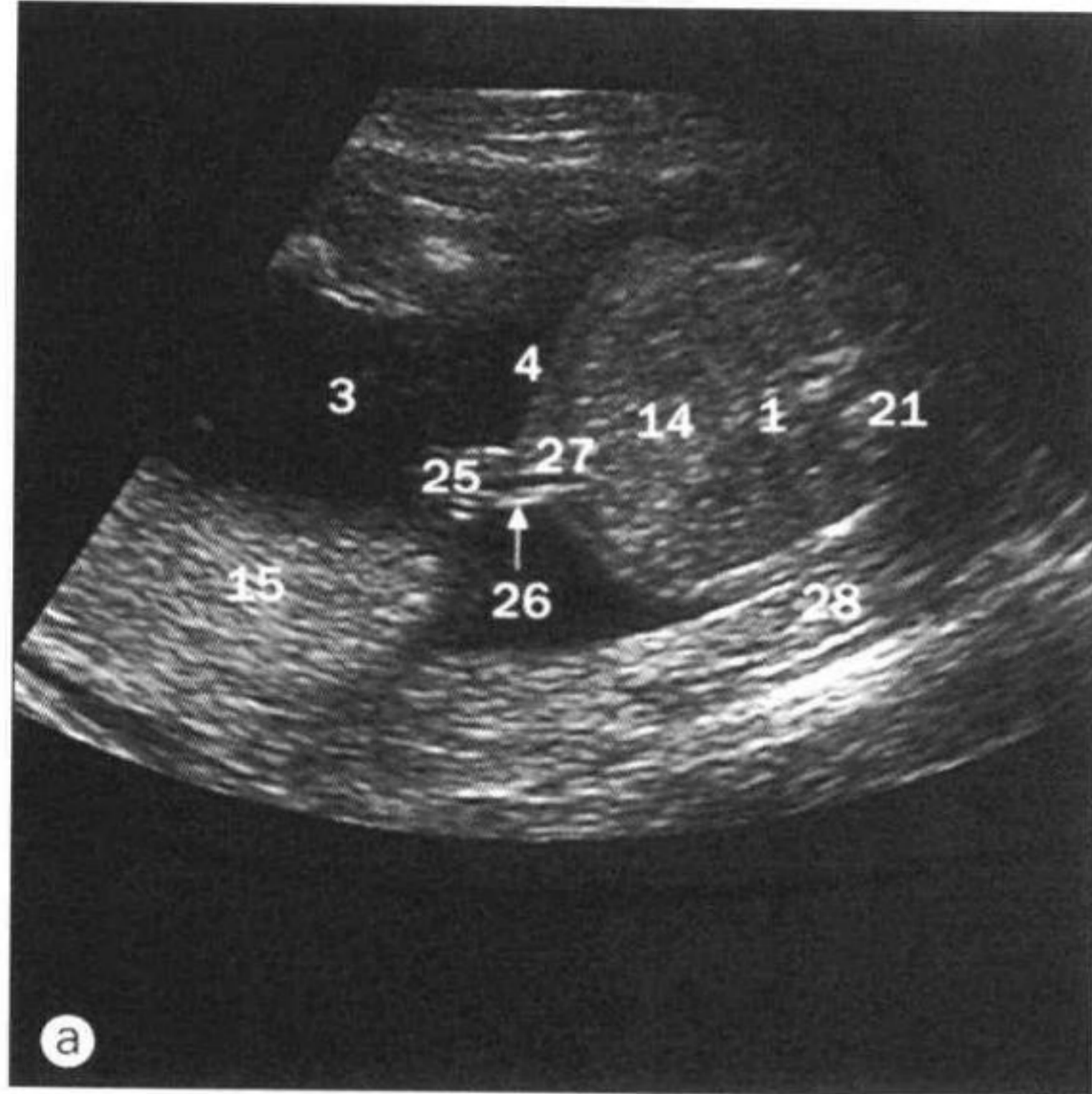
5 胎心位置
 position of fetal heart

6 子宫腔 uterine cavity
 7 子宫 uterus



上页超声影像对应线条示意图。

- | | | | |
|--------------|-------------------------|-----------------------------------|----------------------|
| 1 子宫颈 cervix | 3 胎囊 gestation sac | 5 胎心位置
position of fetal heart | 6 子宫腔 uterine cavity |
| 2 胎儿 fetus | 4 母体膀胱 maternal bladder | | 7 子宫 uterus |



- 1 腹主动脉 abdominal aorta
- 2 腹围测量 abdominal circumference measurement
- 3 羊水 amniotic fluid
- 4 腹前壁 anterior abdominal wall
- 5 双顶径测量 biparietal diameter measurement
- 6 透明腔分隔 cavum septum pellucidum
- 7 小脑 cerebellum
- 8 绒毛膜丛 choroid plexus
- 9 小脑延髓池 cisterna magna (cerebellomedullary cistern)
- 10 冠状缝 coronal suture
- 11 大脑镰 falx cerebri
- 12 股骨 femur
- 13 人字缝 lambdoid suture
- 14 肝 liver
- 15 胎盘 placenta
- 16 脊椎后部 posterior elements of vertebrae
- 17 肋骨 ribs
- 18 头颅 skull
- 19 椎管 spinal canal
- 20 脊髓 spinal cord
- 21 脊柱 spine
- 22 胃 stomach
- 23 丘脑 thalamus
- 24 股部 thigh
- 25 脐带 umbilical cord
- 26 脐静脉 umbilical vein
- 27 脐 umbilicus
- 28 子宫壁 uterine wall
- 29 椎体 vertebral body

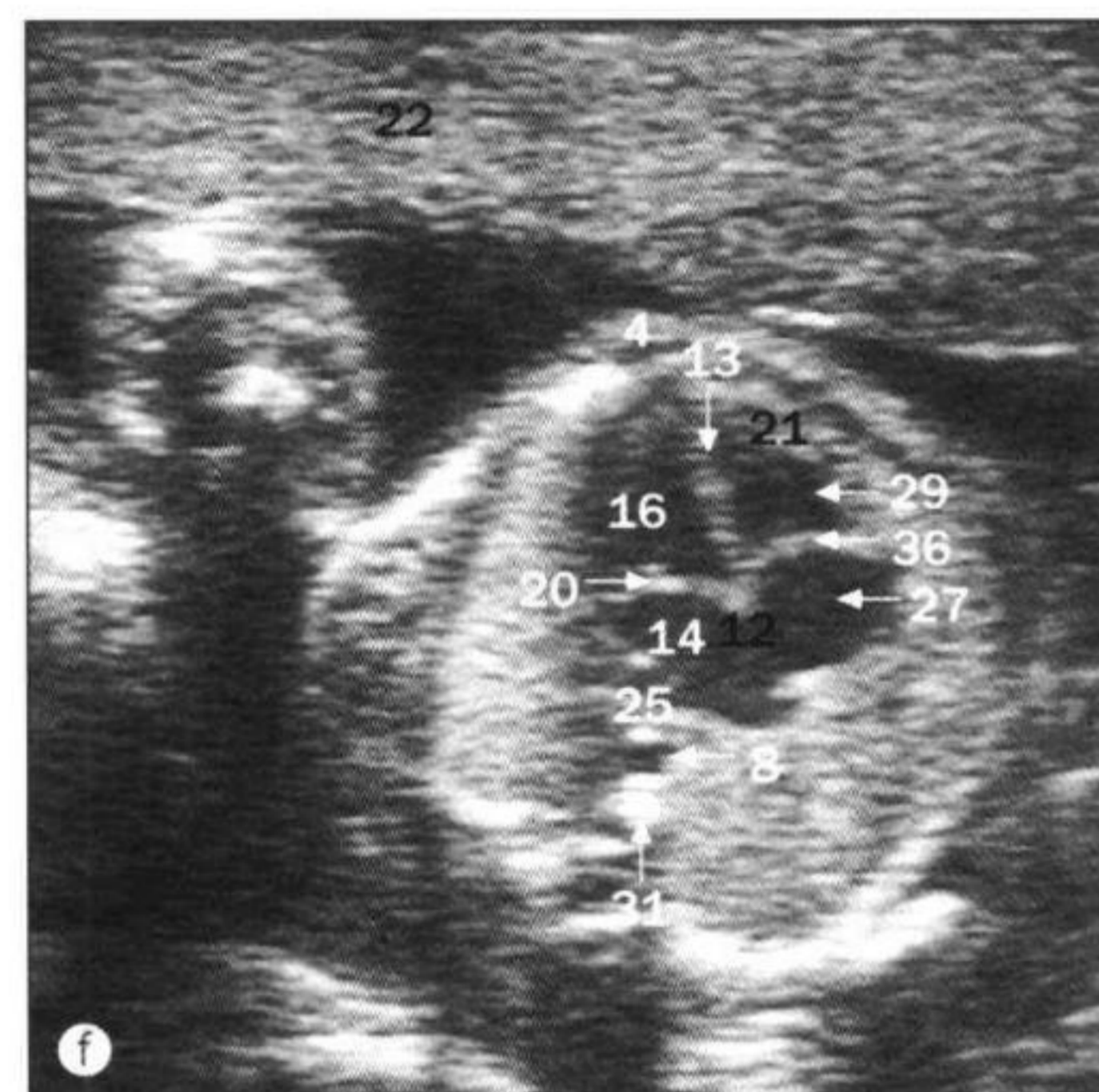
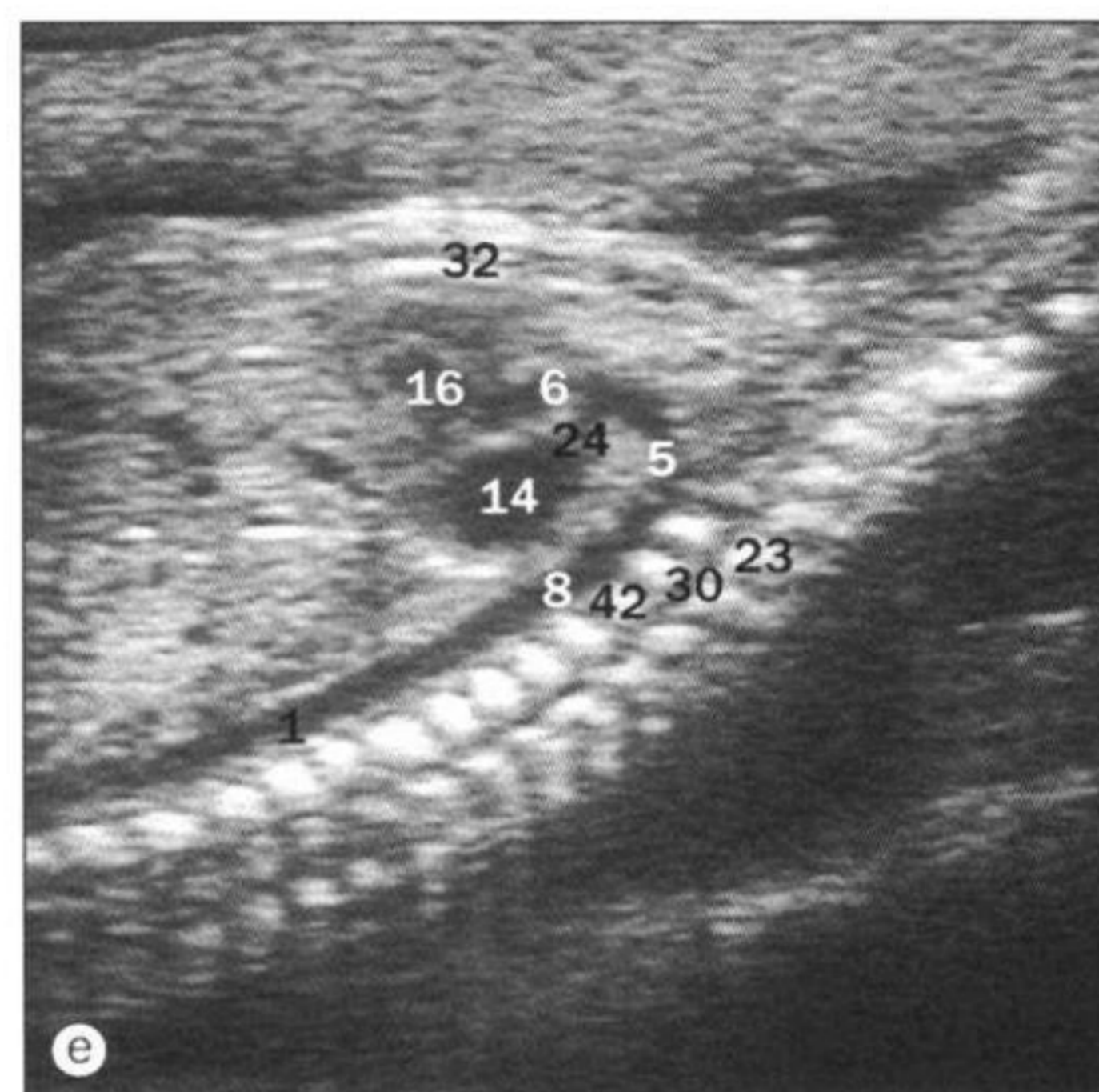
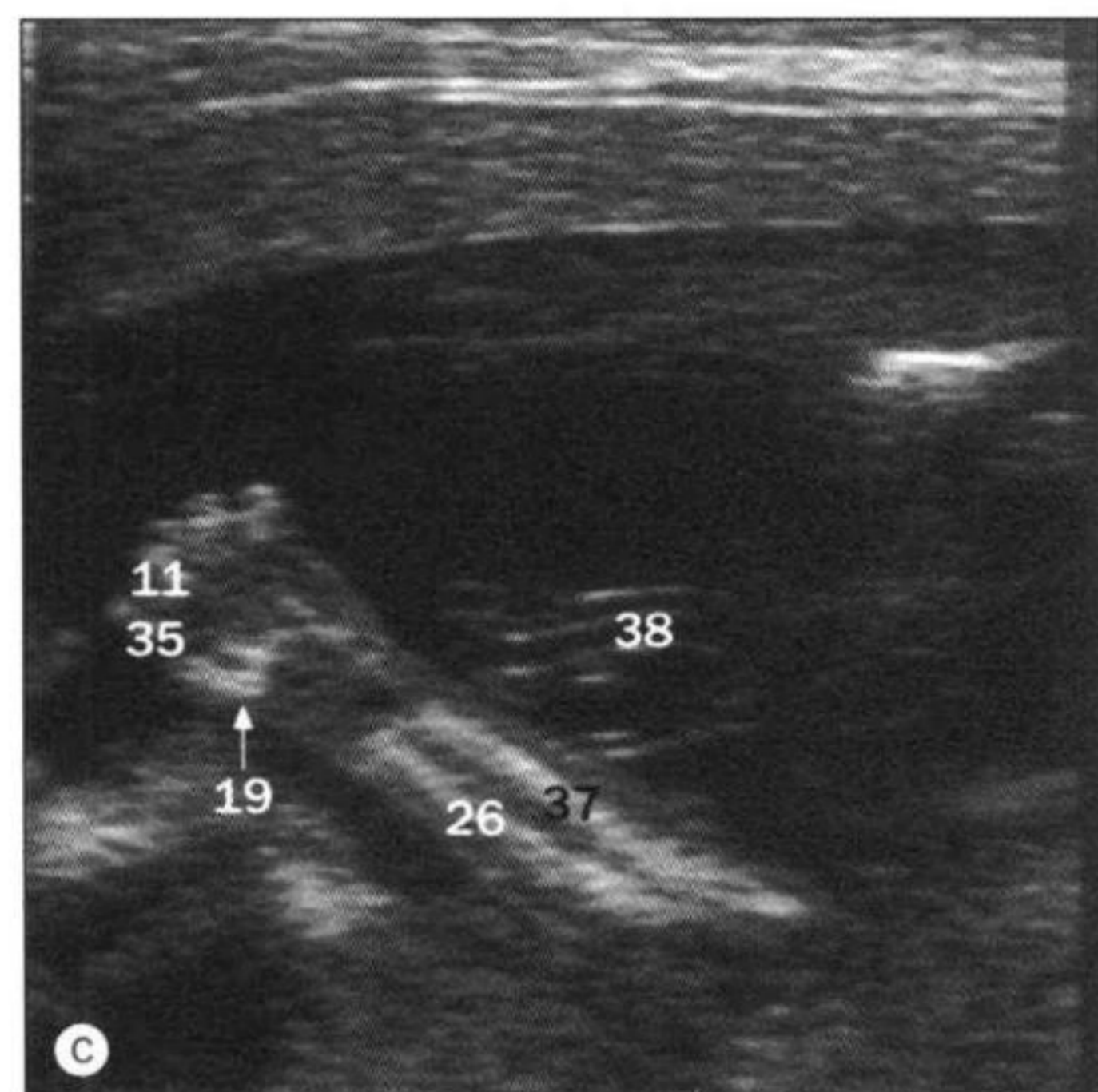
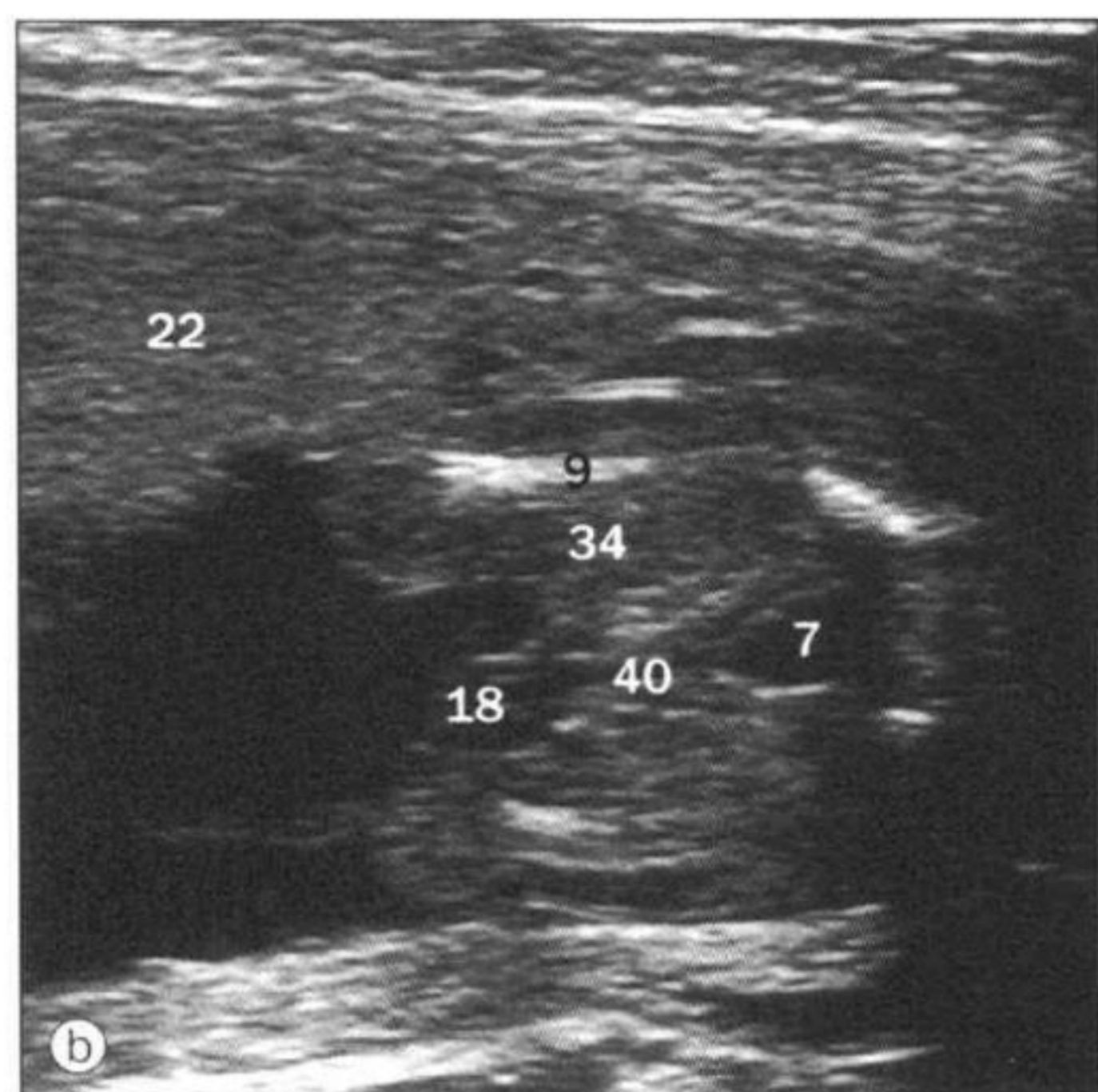
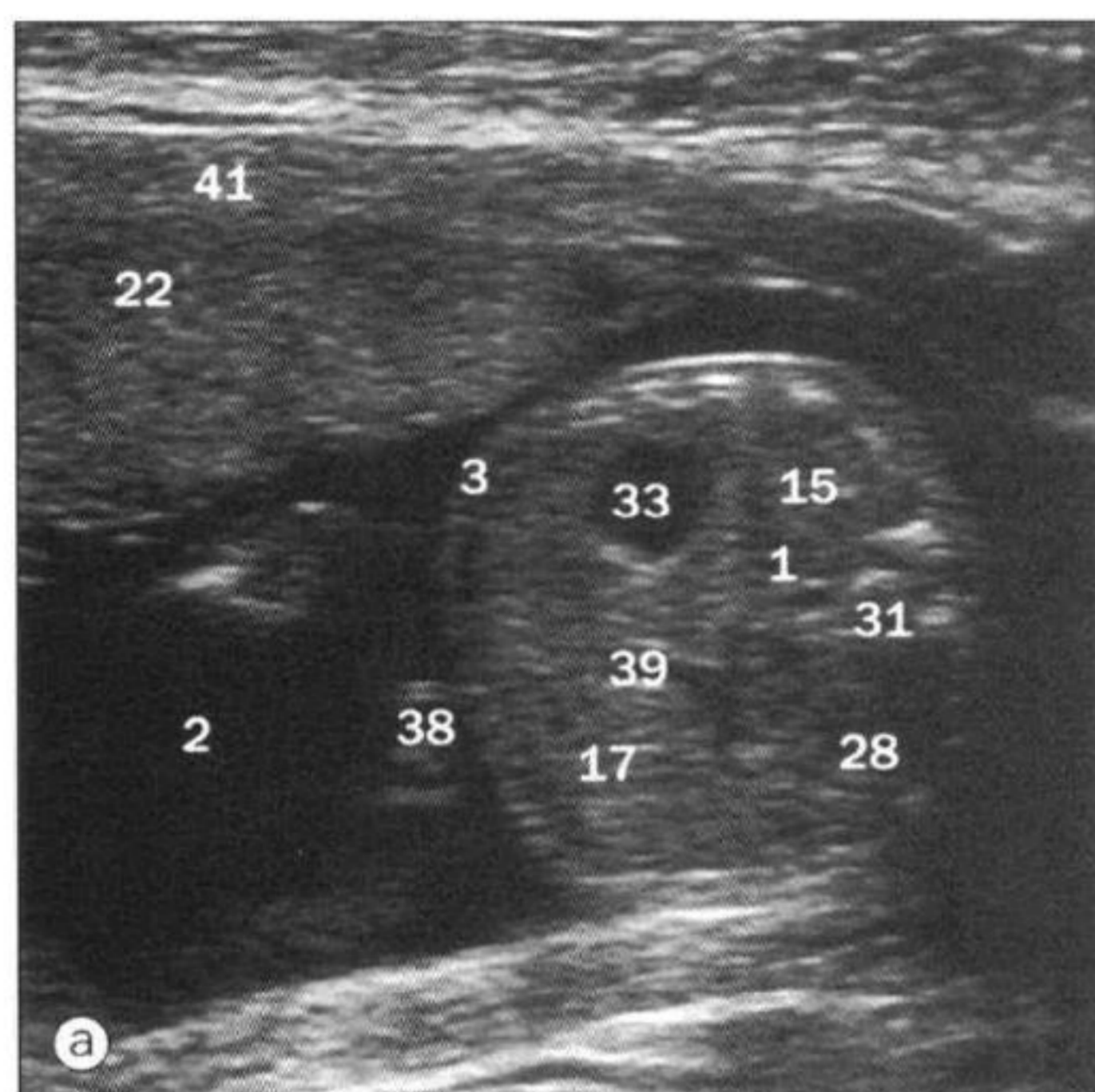
胎儿超声，妊娠中三月。

a. 脐带附着。

b, c. 头颅。

d. 腹部。

e, f. 脊柱。



胎儿超声，妊娠中三月。

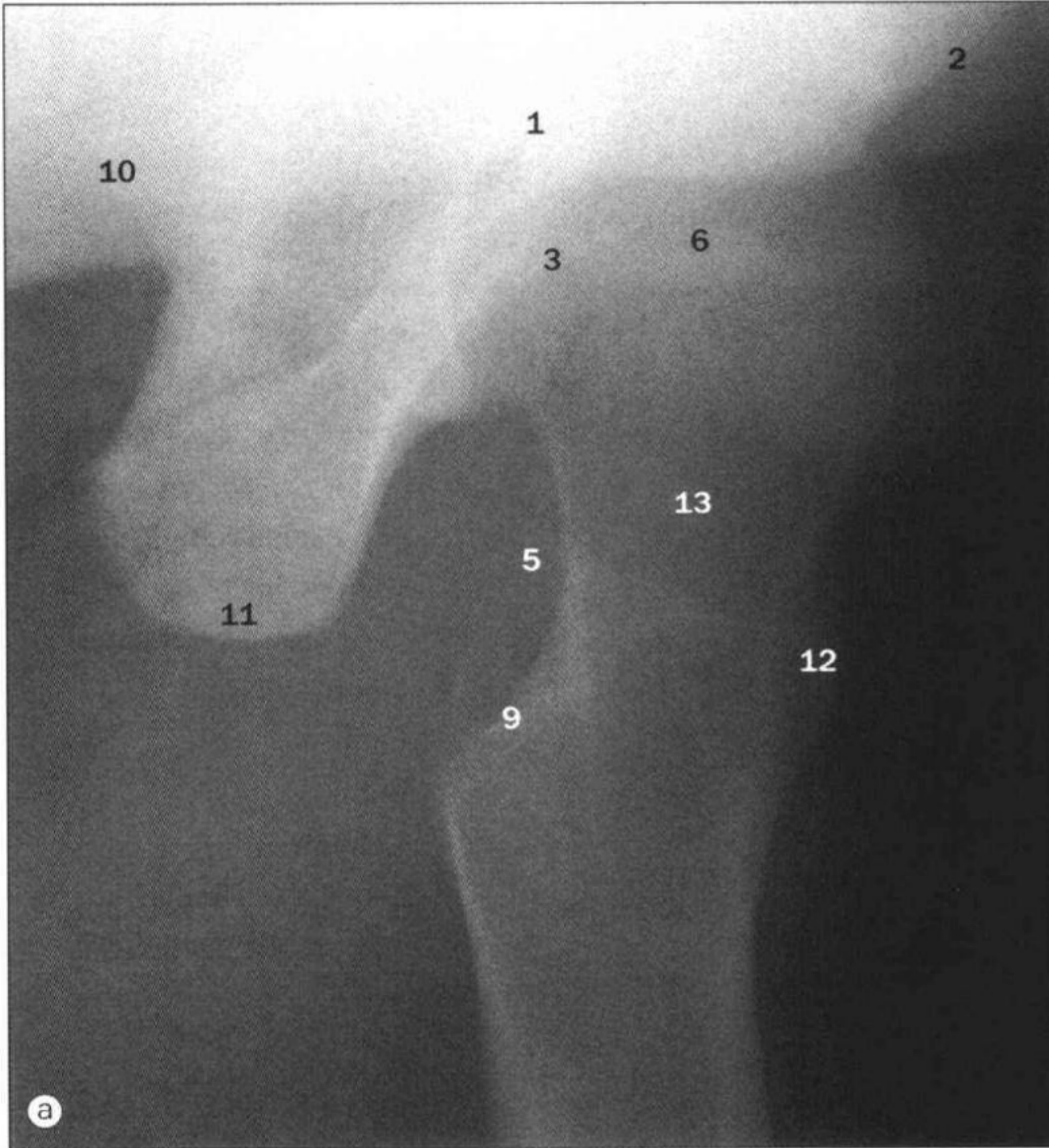
- a. 腹部。
b. 盆腔。
c. 前臂。
d. 股骨。
e. 心脏和主动脉。
f. 心脏各腔。

- | | |
|---|--|
| 1 腹主动脉 abdominal aorta | 22 胎盘 placenta |
| 2 羊水 amniotic fluid | 23 脊椎后部
posterior elements of vertebrae |
| 3 腹前壁 anterior abdominal wall | 24 肺动脉 pulmonary artery |
| 4 胸前壁 anterior chest wall | 25 肺静脉 pulmonary vein |
| 5 主动脉弓 aortic arch | 26 桡骨 radius |
| 6 升主动脉 ascending aorta | 27 右心房 right atrium |
| 7 膀胱 bladder | 28 右肾 right kidney |
| 8 降主动脉 descending aorta | 29 右心室 right ventricle |
| 9 股骨 femur | 30 椎管 spinal canal |
| 10 股骨长度测量 femur for femoral length
measurement | 31 脊柱 spine |
| 11 手指 finger | 32 胸骨 sternum |
| 12 房间隔 interatrial septum | 33 胃 stomach |
| 13 室间隔 interventricular septum | 34 股部 thigh |
| 14 左心房 left atrium | 35 拇指 thumb |
| 15 左肾 left kidney | 36 三尖瓣 tricuspid valve |
| 16 左心室 left ventricle | 37 尺骨 ulna |
| 17 肝 liver | 38 脐带 umbilical cord |
| 18 男性外生殖器 male external genitalia | 39 脐静脉 umbilical vein |
| 19 掌骨 metacarpal shaft | 40 尿道 urethra |
| 20 二尖瓣 mitral valve | 41 子宫壁 uterine wall |
| 21 节制索 moderator band | 42 椎体 vertebral body |

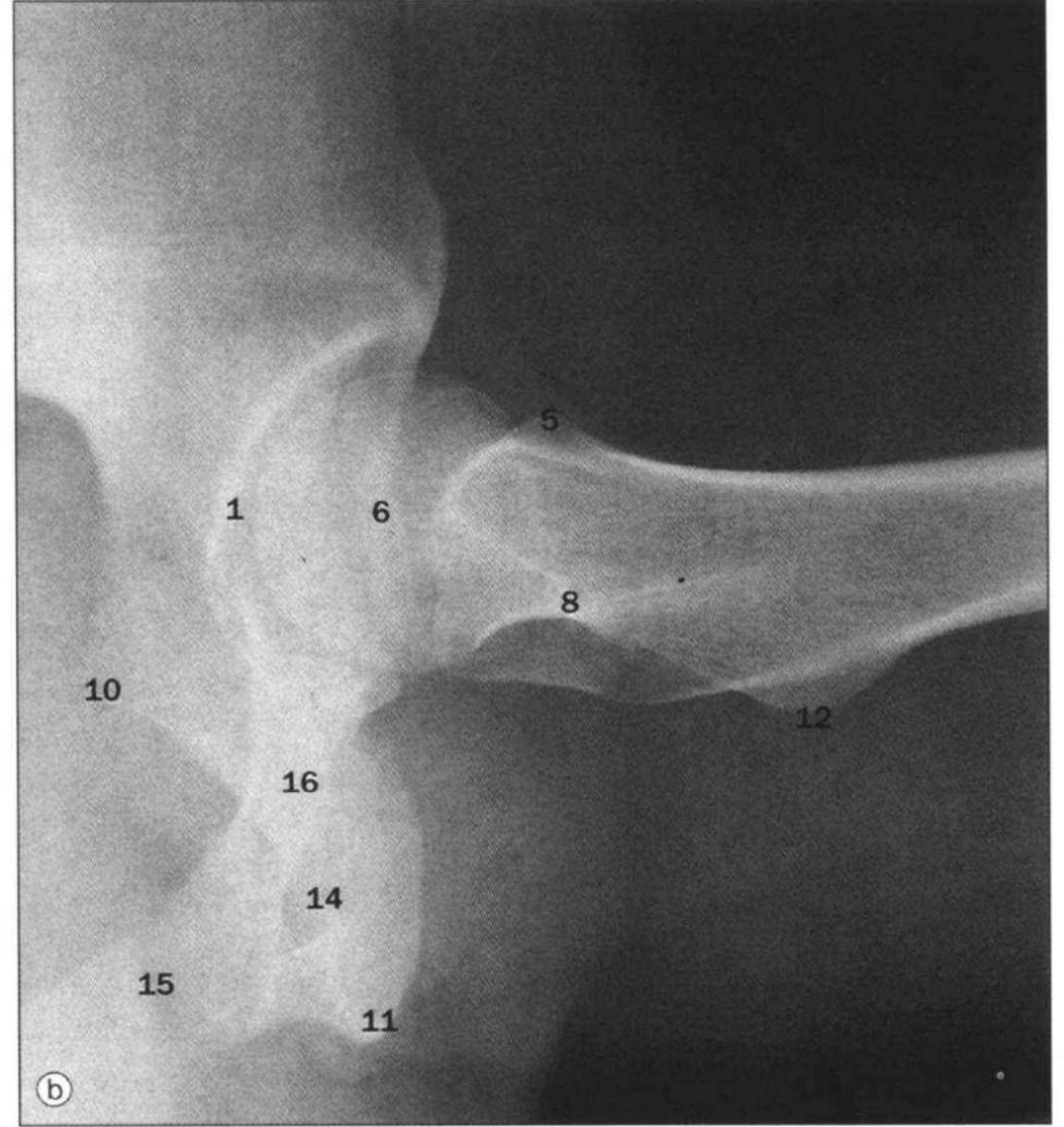


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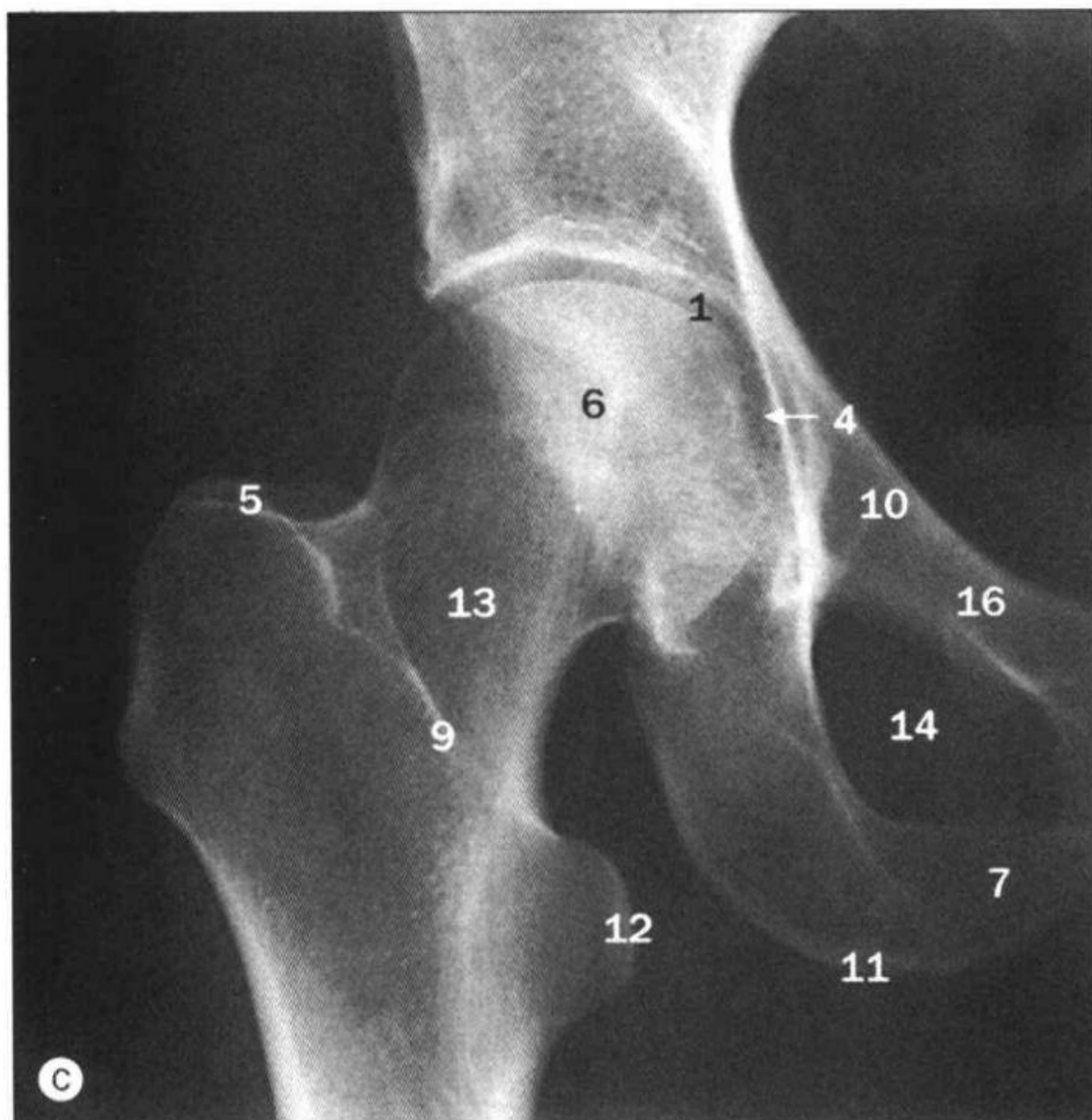
下肢



a. 股骨 (股骨颈), 侧位 X 线。

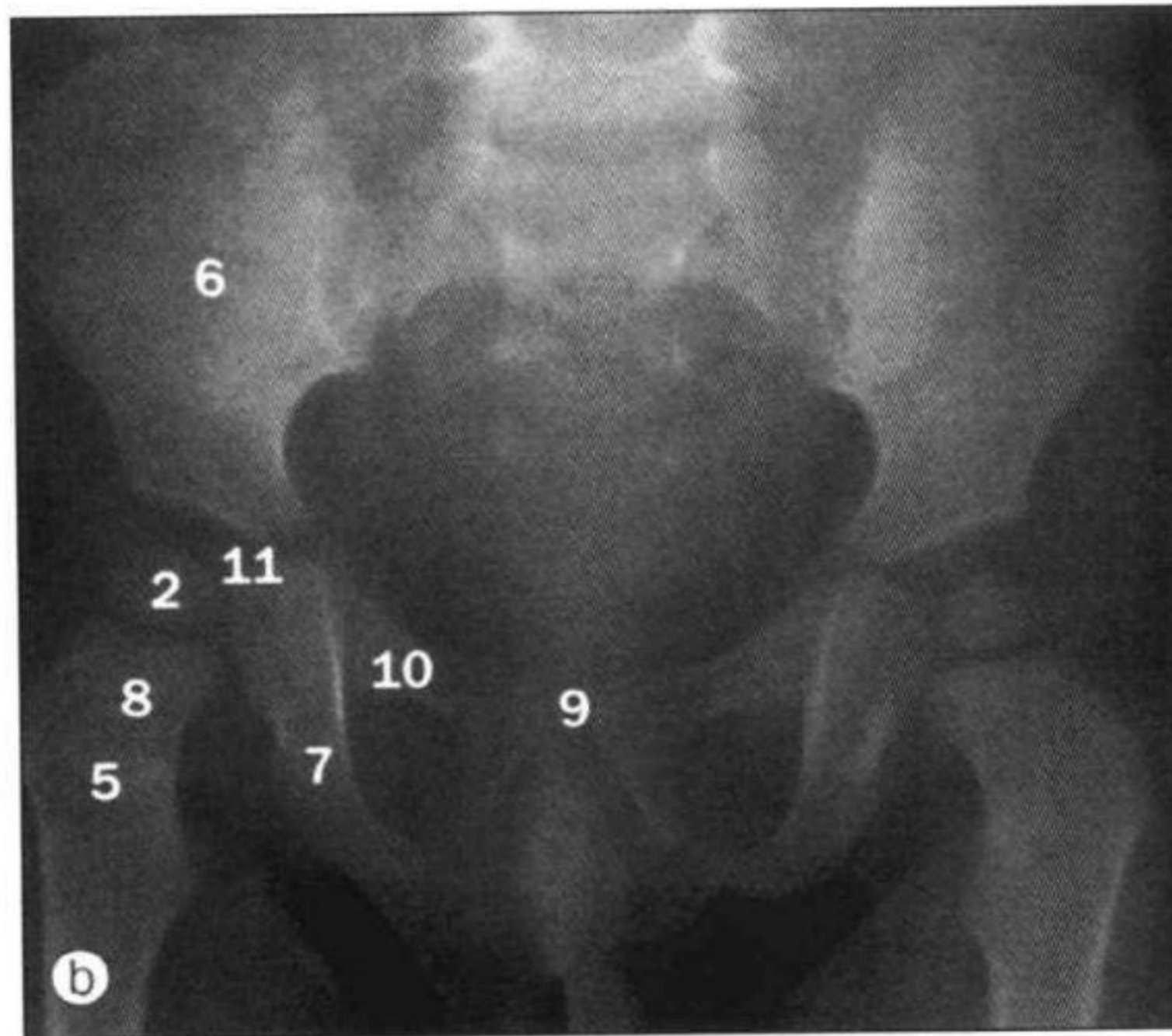
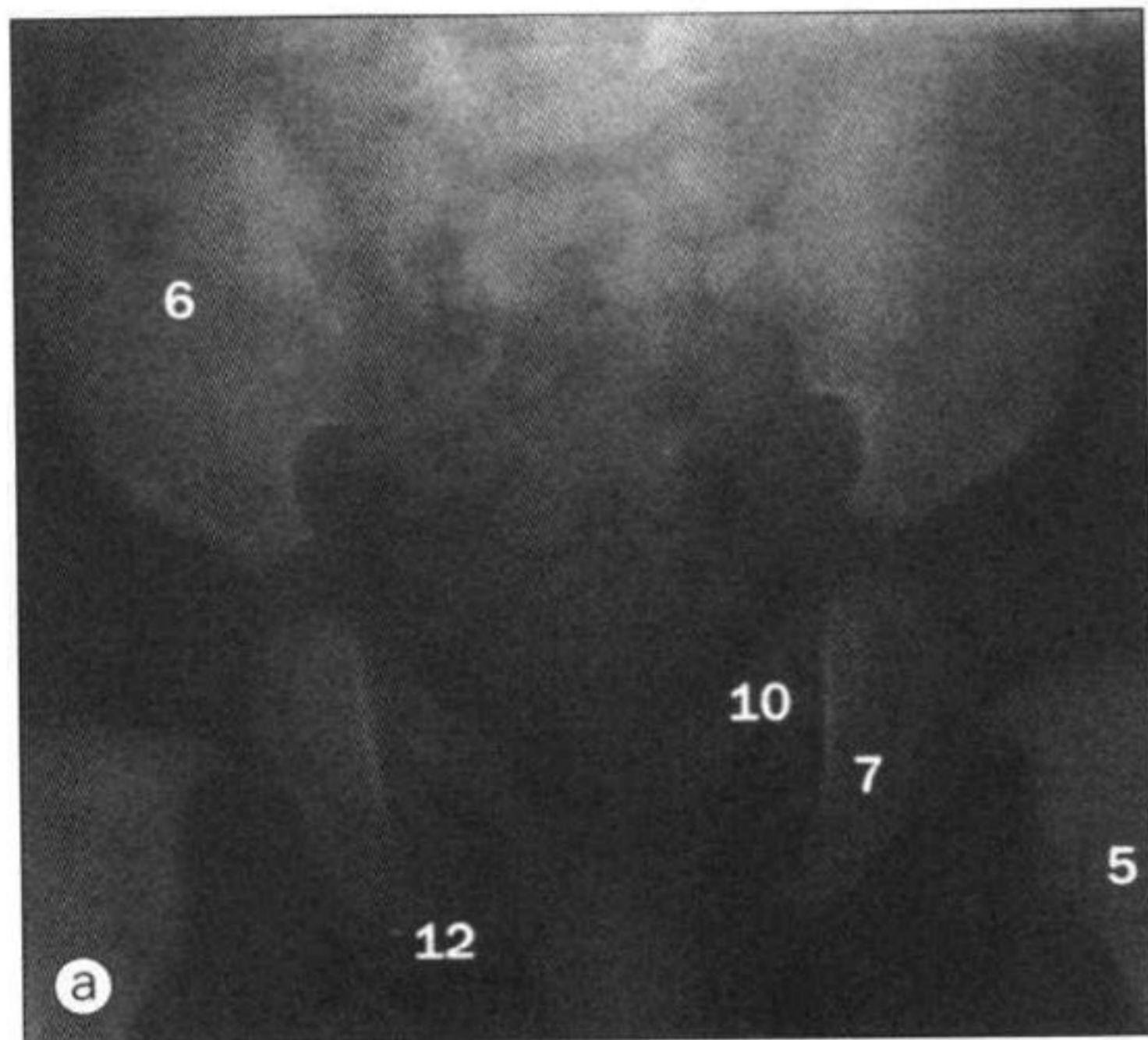


b. 髋, 侧位 X 线。



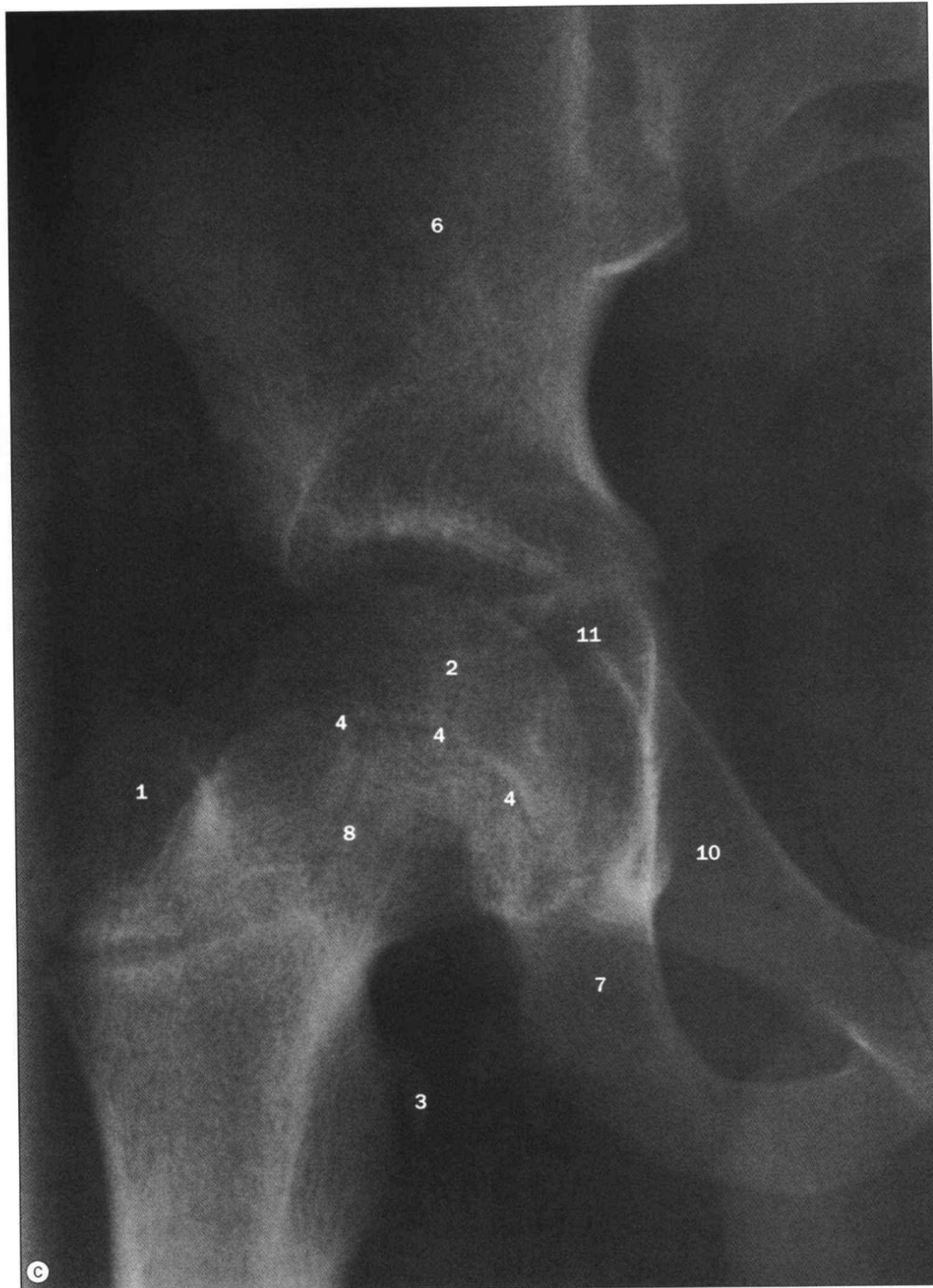
c. 髋, 前后位 X 线。

- 1 髋臼 acetabulum
- 2 髂前下棘
anterior inferior iliac spine
- 3 骺线 epiphyseal line
- 4 股骨头凹 fovea
- 5 股骨大转子
greater trochanter of femur
- 6 股骨头 head of femur
- 7 耻骨下支 inferior ramus of pubis
- 8 股骨粗隆间窝
intertrochanteric crest of femur
- 9 转子间线 intertrochanteric line
- 10 坐骨棘 ischial spine
- 11 坐骨结节 ischial tuberosity
- 12 股骨小转子
lesser trochanter of femur
- 13 股骨颈 neck of femur
- 14 闭孔 obturator foramen
- 15 耻骨联合 public symphysis
- 16 耻骨上支 superior ramus of pubis



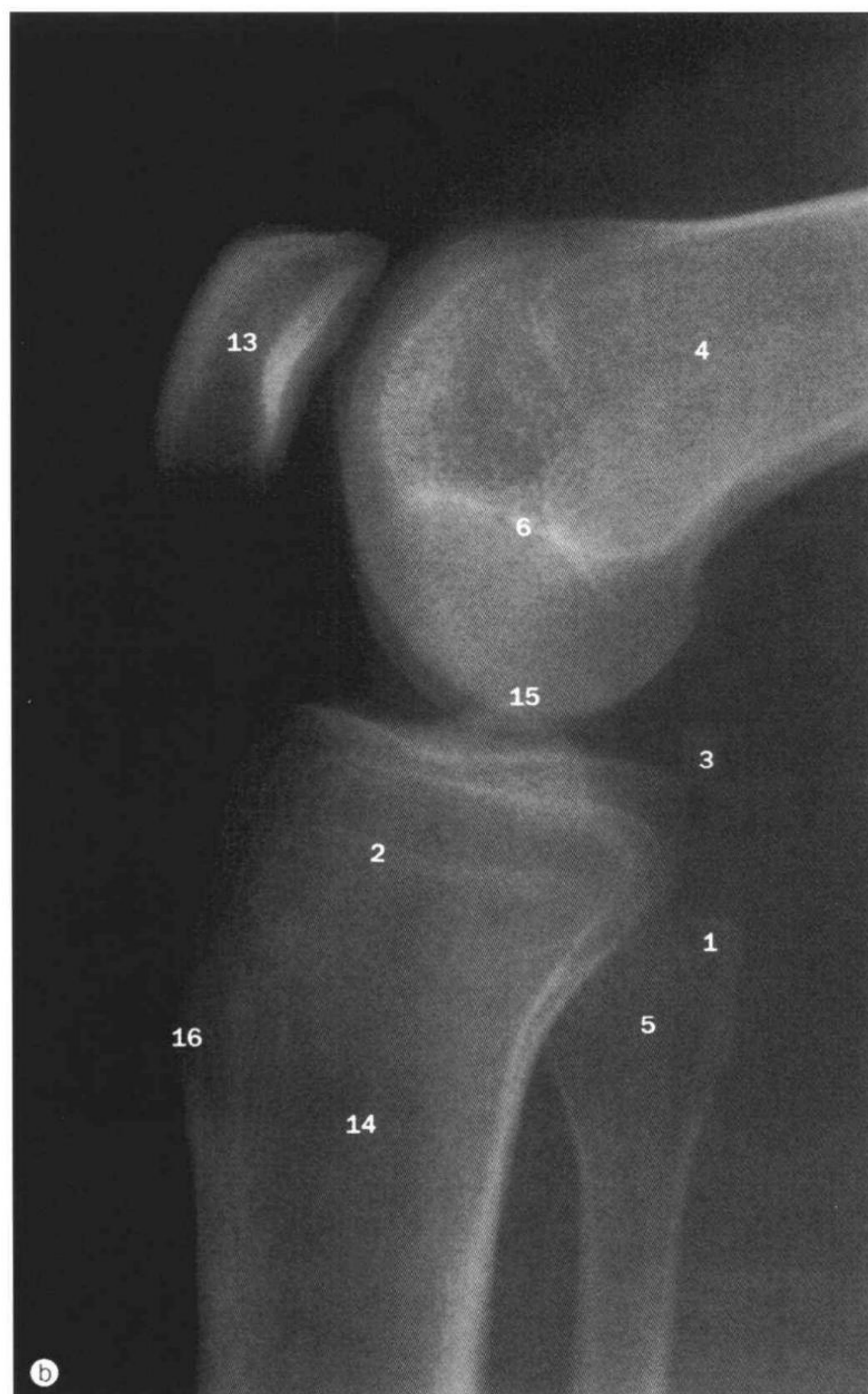
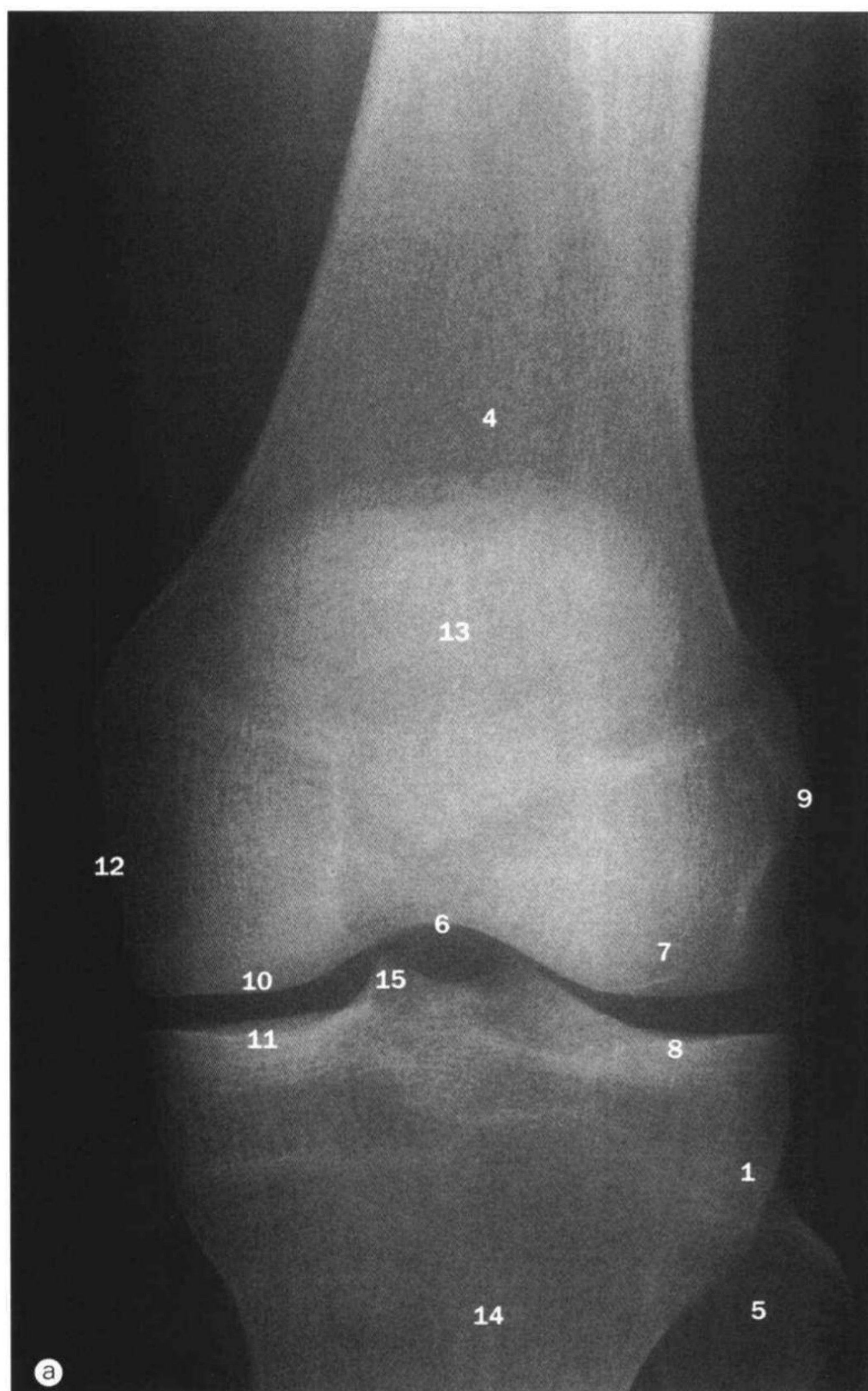
骨盆，前后位 X 线。

- a. 2 个月男孩。
- b. 1 岁男孩。
- c. 11 岁男孩。



- 1 大转子骨化中心
centre for greater trochanter
- 2 股骨头骨化中心 (股骨头骨骺)
centre for head of femur
(femoral capital epiphysis)
- 3 小转子骨化中心
centre for lesser trochanter
- 4 骺线 epiphysal line
- 5 股骨 femur
- 6 髌骨 ilium
- 7 坐骨 ischium
- 8 股骨颈 neck of femur
- 9 耻骨联合 public symphysis
- 10 耻骨 pubis
- 11 Y 形软骨
triadiate cartilage
- 12 坐骨与耻骨间尚未骨化的连接
unossified junction
between ischium and pubis

髌	出现	融合
髌骨	2~3 个月胎龄	7~9 岁
坐骨	4 个月胎龄	7~9 岁
耻骨	4 个月胎龄	7~9 岁
髌臼	11~14 岁	15~25 岁
髌前上棘	春青期	15~25 岁
髌嵴	春青期	15~25 岁
坐骨结节	春青期	15~25 岁
股骨 (软骨骨化)	出现	融合
股骨干	7 周胎龄	
股骨头	4~6 月	14~18 岁
大转子	2~4 岁	14~18 岁
小转子	10~12 岁	14~18 岁
股骨远端	9 个月胎龄	17~19 岁



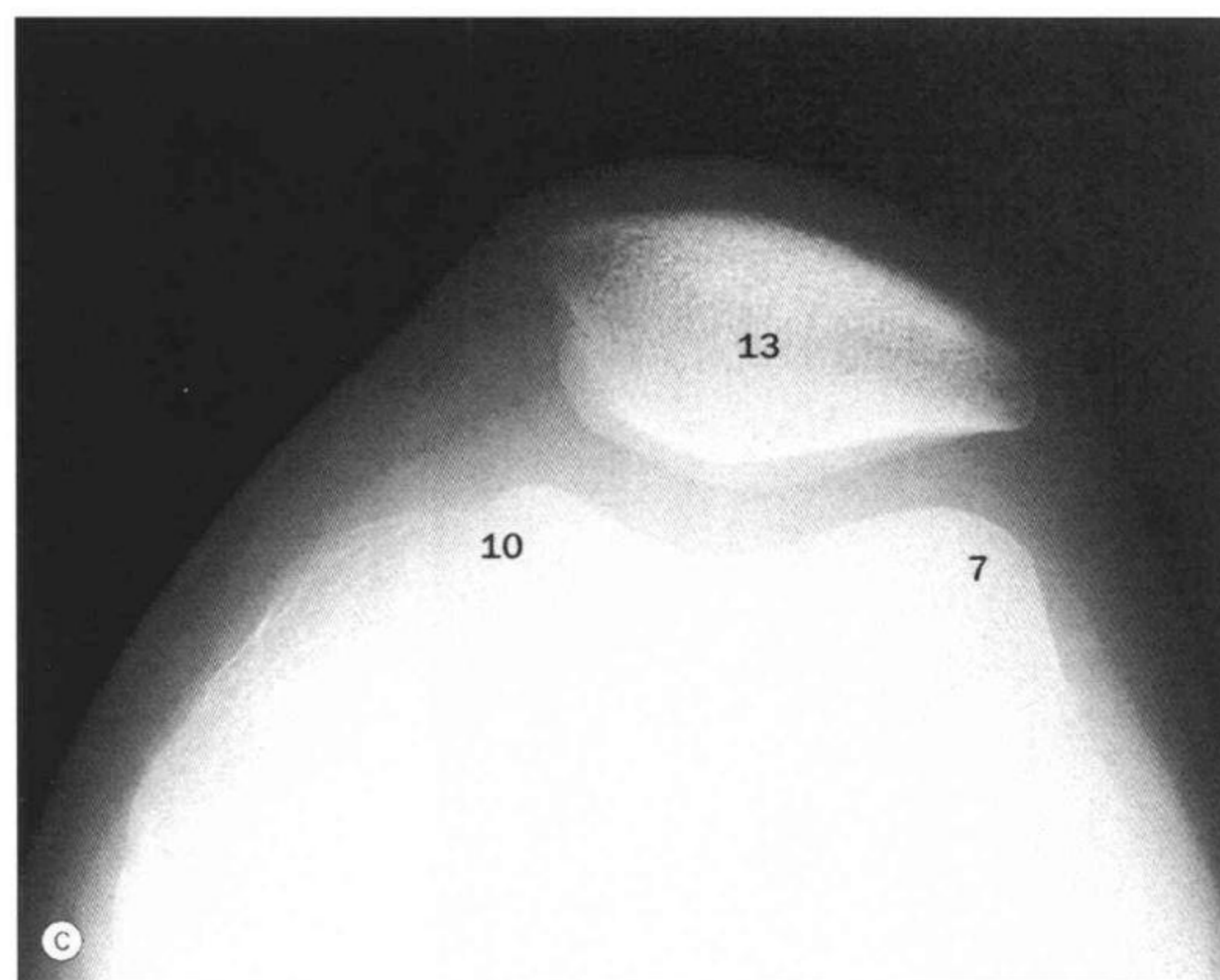
膝关节，X线。

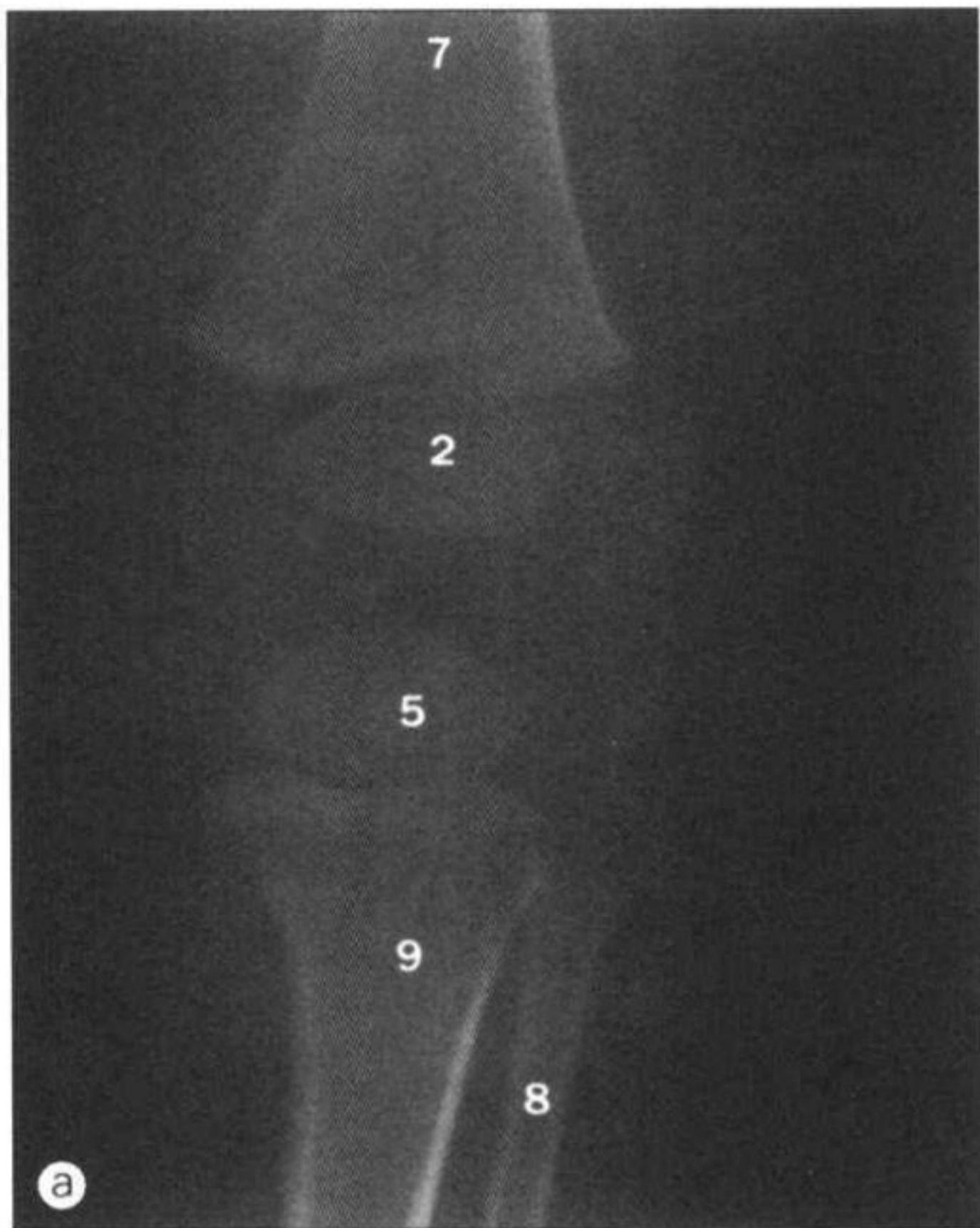
a. 前后位。

b. 侧位。

c. 髌骨，下上位（切线位）。

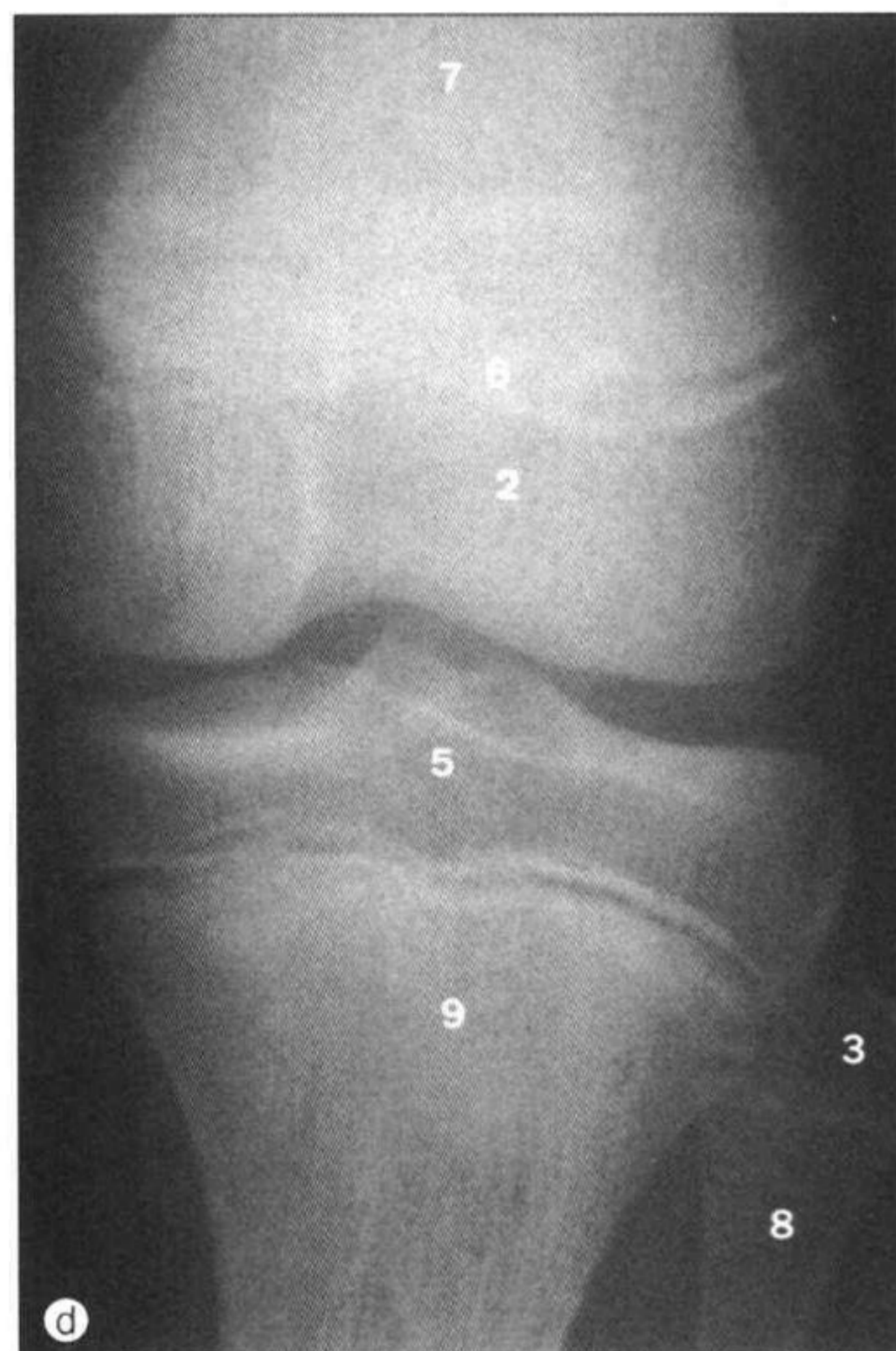
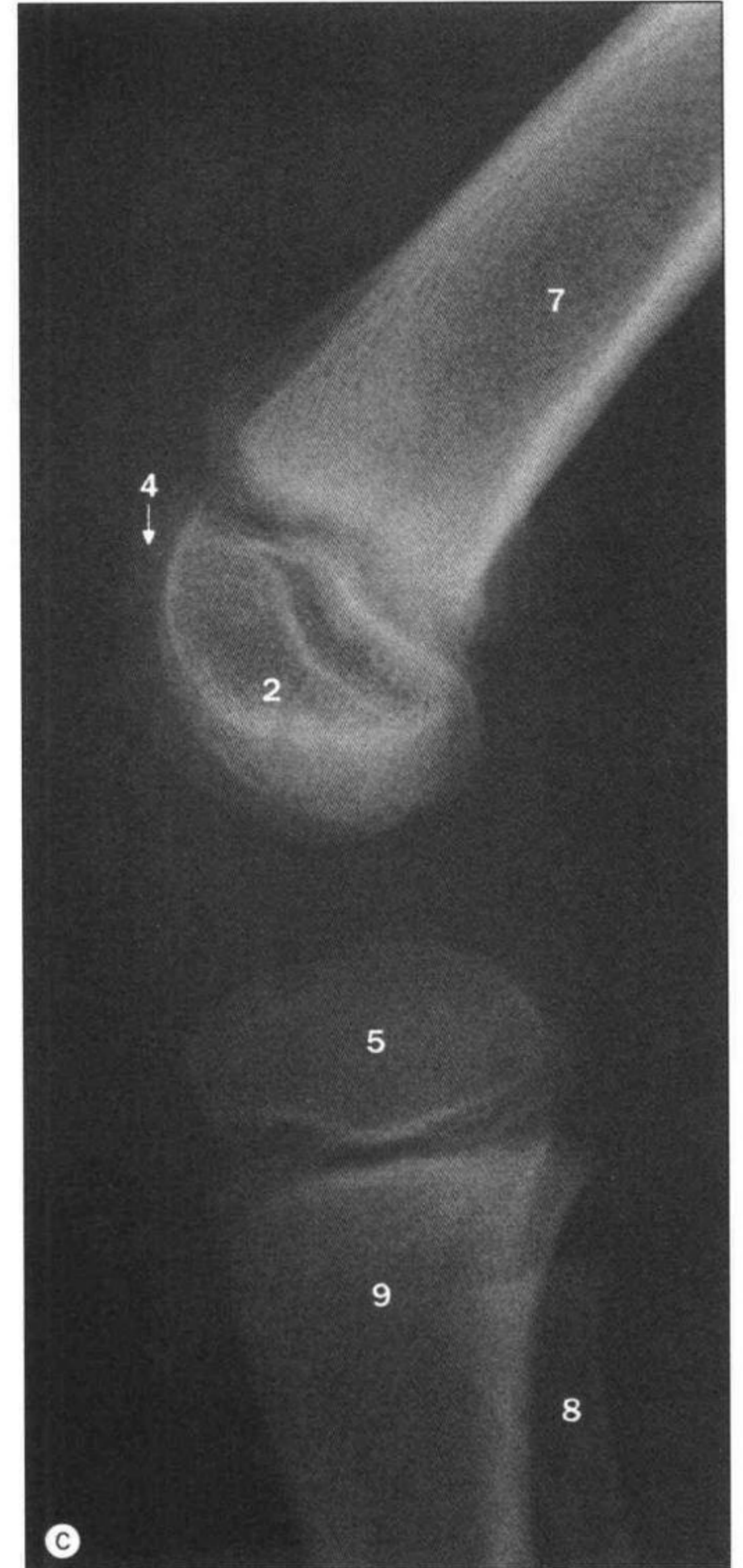
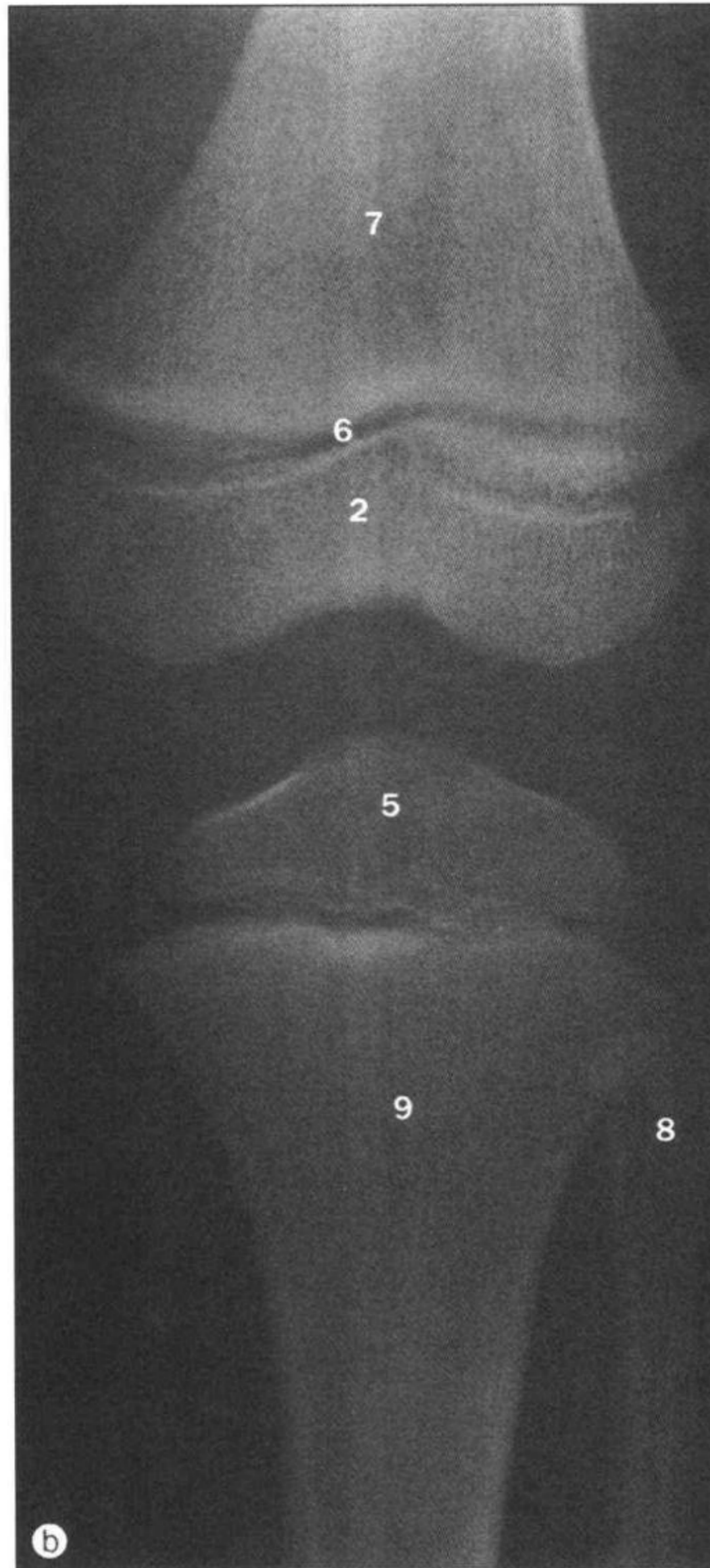
- 1 腓骨尖 apex (styloid process) of fibula
- 2 骺线 epiphysial line
- 3 腓肠豆 fabella
- 4 股骨 femur
- 5 腓骨头 head of fibula
- 6 髁间窝 intercondylar fossa
- 7 股骨外侧髁 lateral condyle of femur
- 8 胫骨外侧髁 lateral condyle of tibia
- 9 股骨外上髁 lateral epicondyle of femur
- 10 股骨内侧髁 medial condyle of femur
- 11 胫骨内侧髁 medial condyle of tibia
- 12 股骨内上髁 medial epicondyle of femur
- 13 髌骨 patella
- 14 胫骨 tibia
- 15 胫骨髁间隆起 tubercles of intercondylar eminence
- 16 胫骨粗隆 tuberosity of tibia





膝关节，X线。a. 1岁男孩；b,c. 6岁男孩；d,e. 12岁男孩。

软骨骨化	出现	融合
1~3个骨化中心(髌骨)	3~5岁	青春期
胫骨体	7周胎龄	
胫骨近端	9月胎龄	16~18岁
胫骨粗隆	10~12岁	12~14岁
胫骨远端	4个月~1岁	15~17岁
腓骨体	8周胎龄	
腓骨近端(腓骨头)	2~4岁	17~19岁
腓骨远端	6个月~1岁	15~17岁

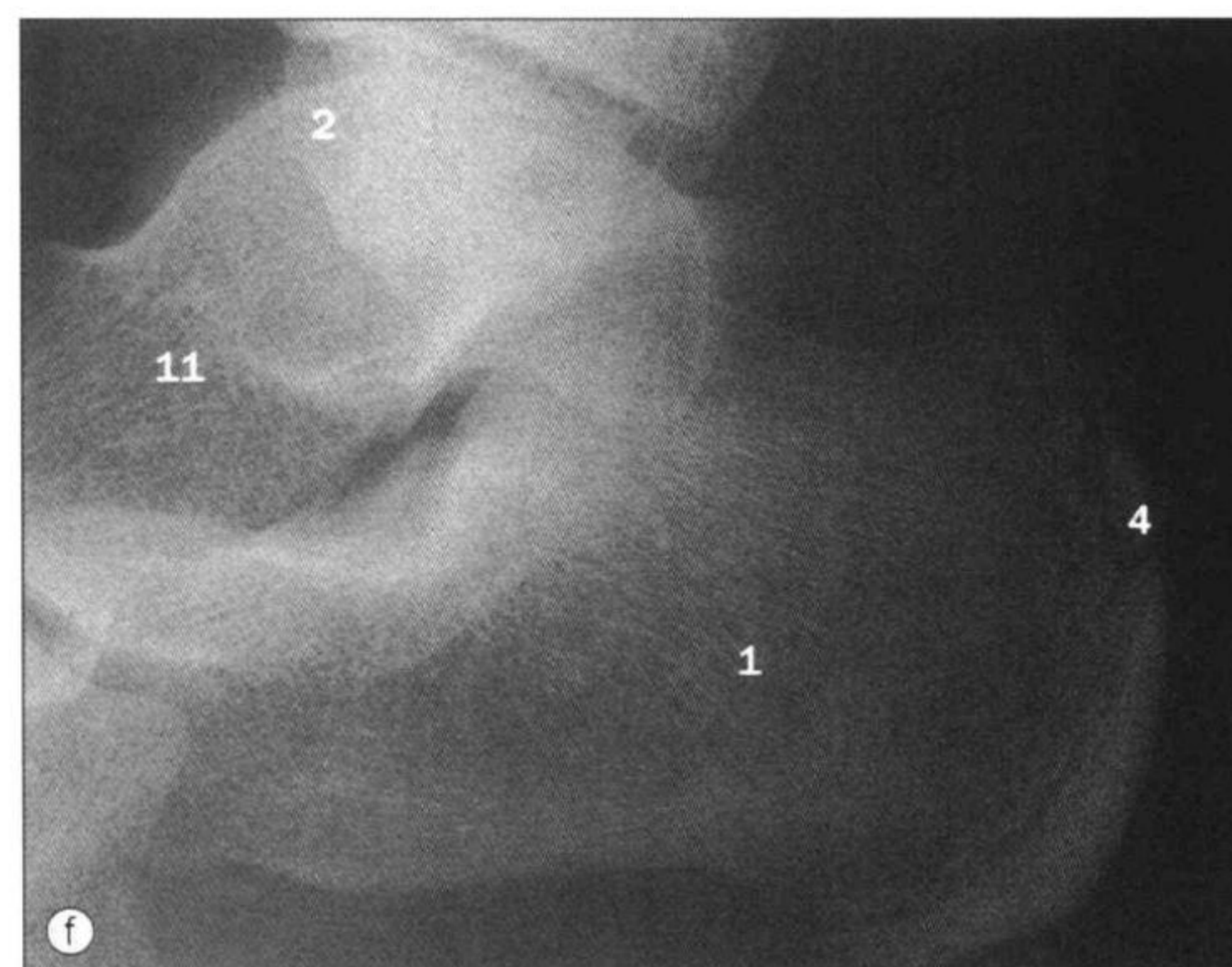
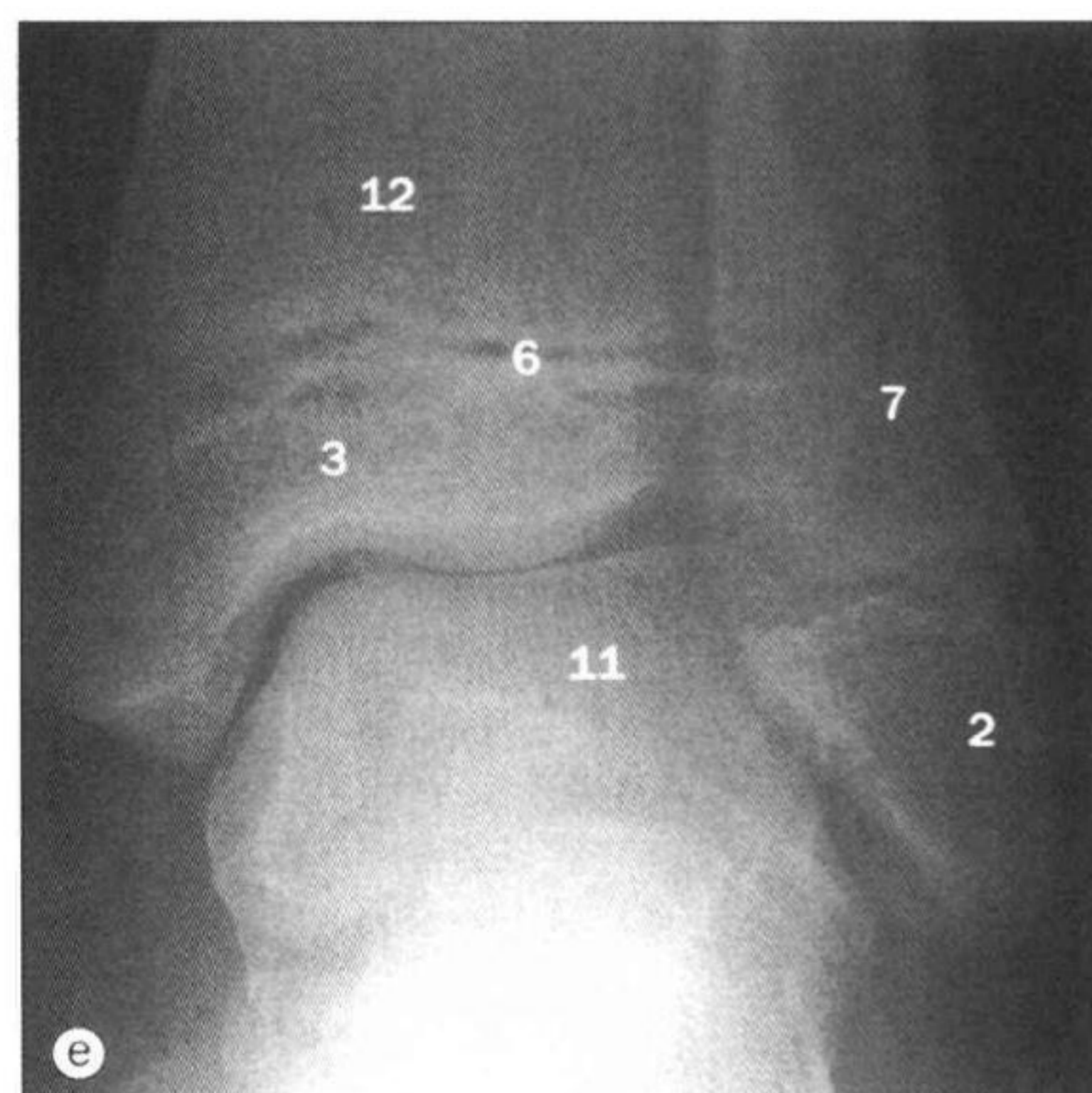
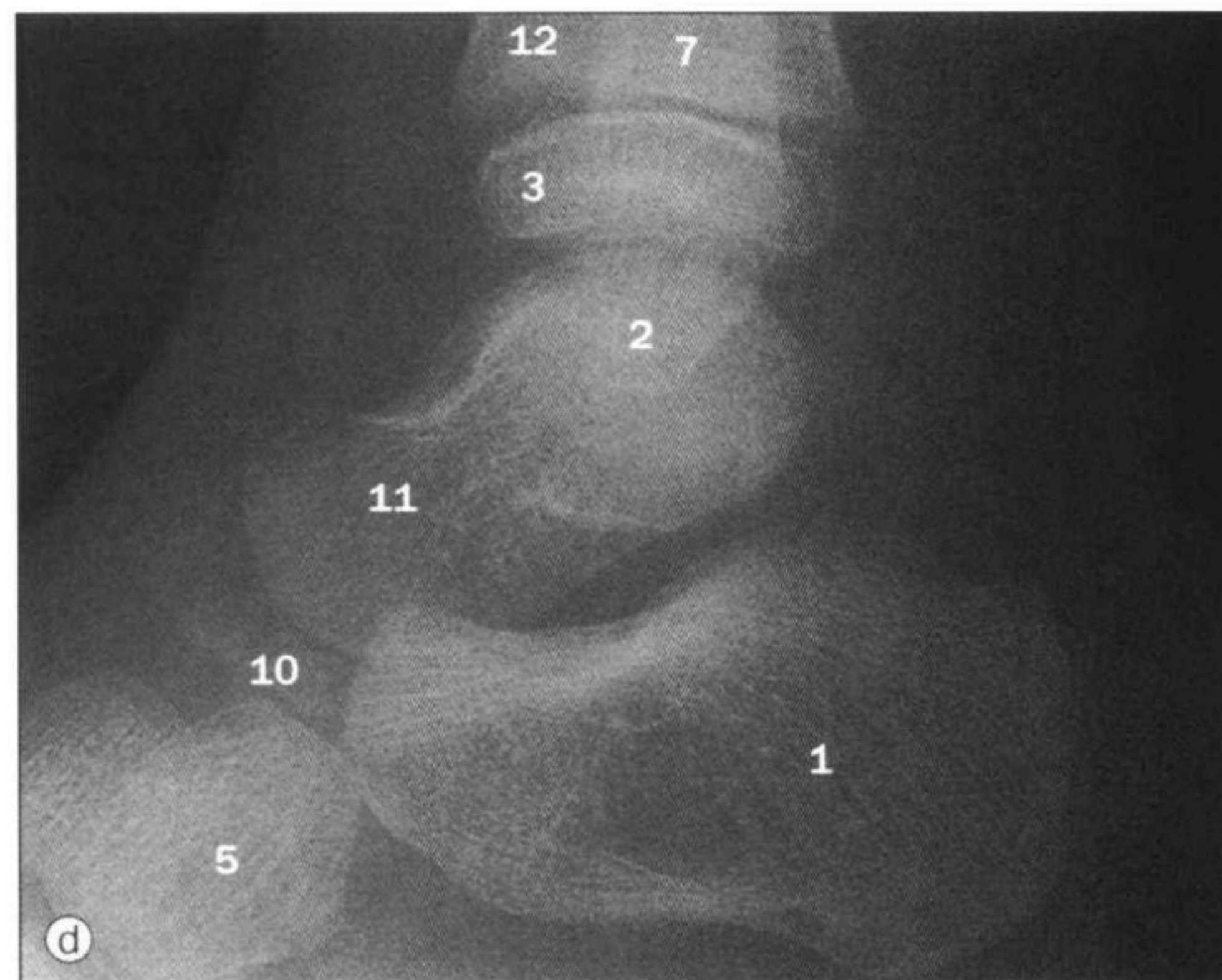
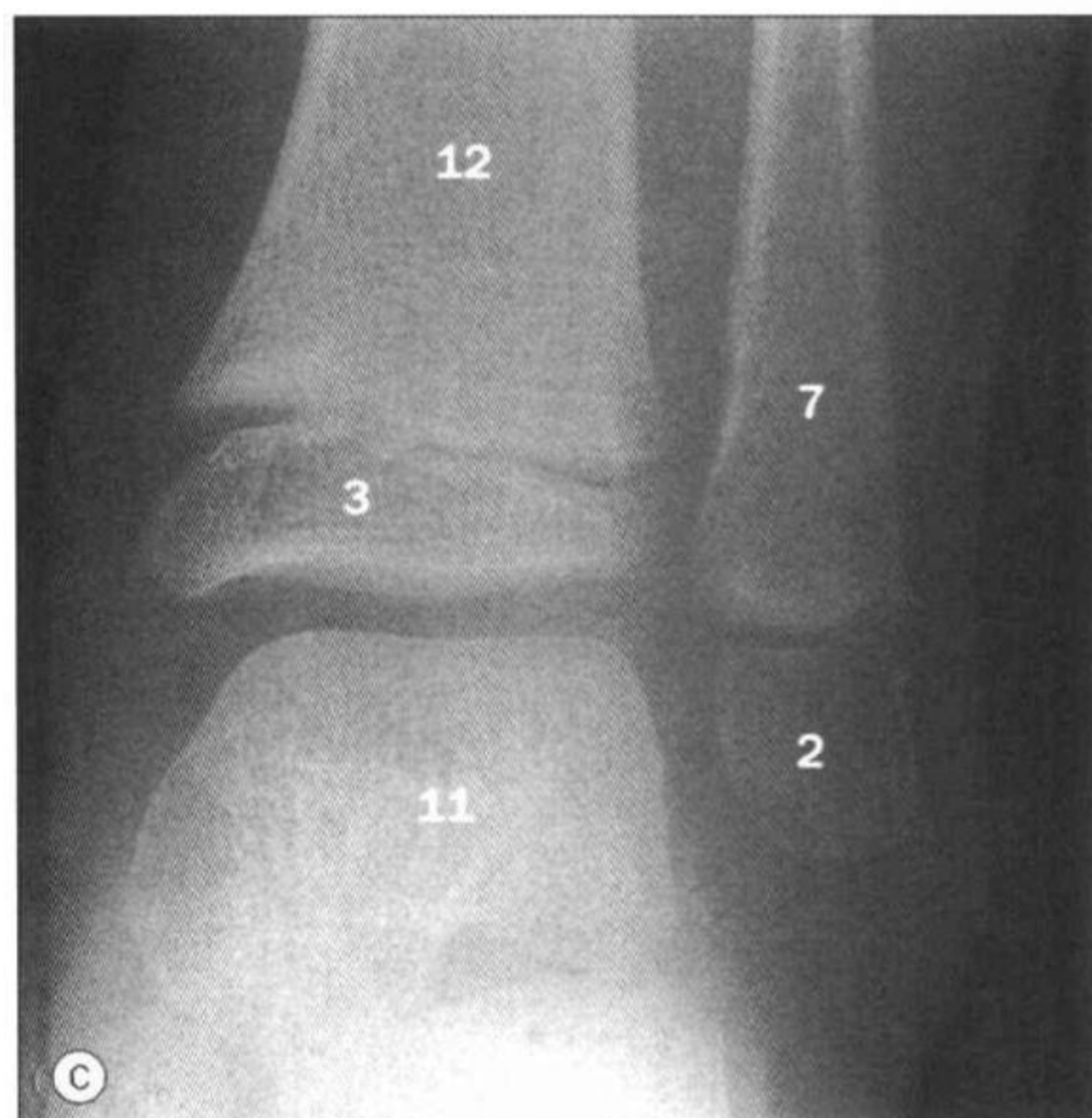
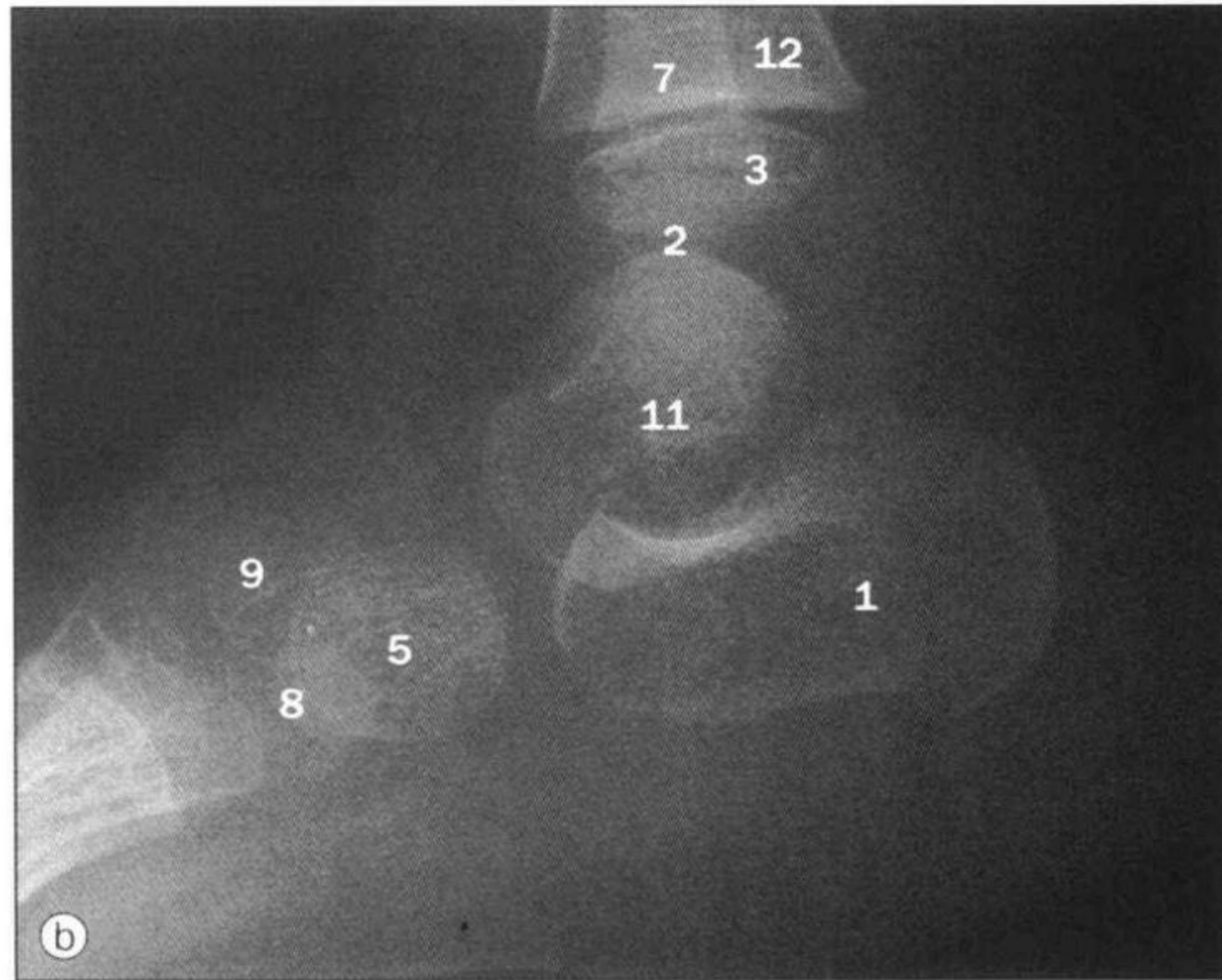
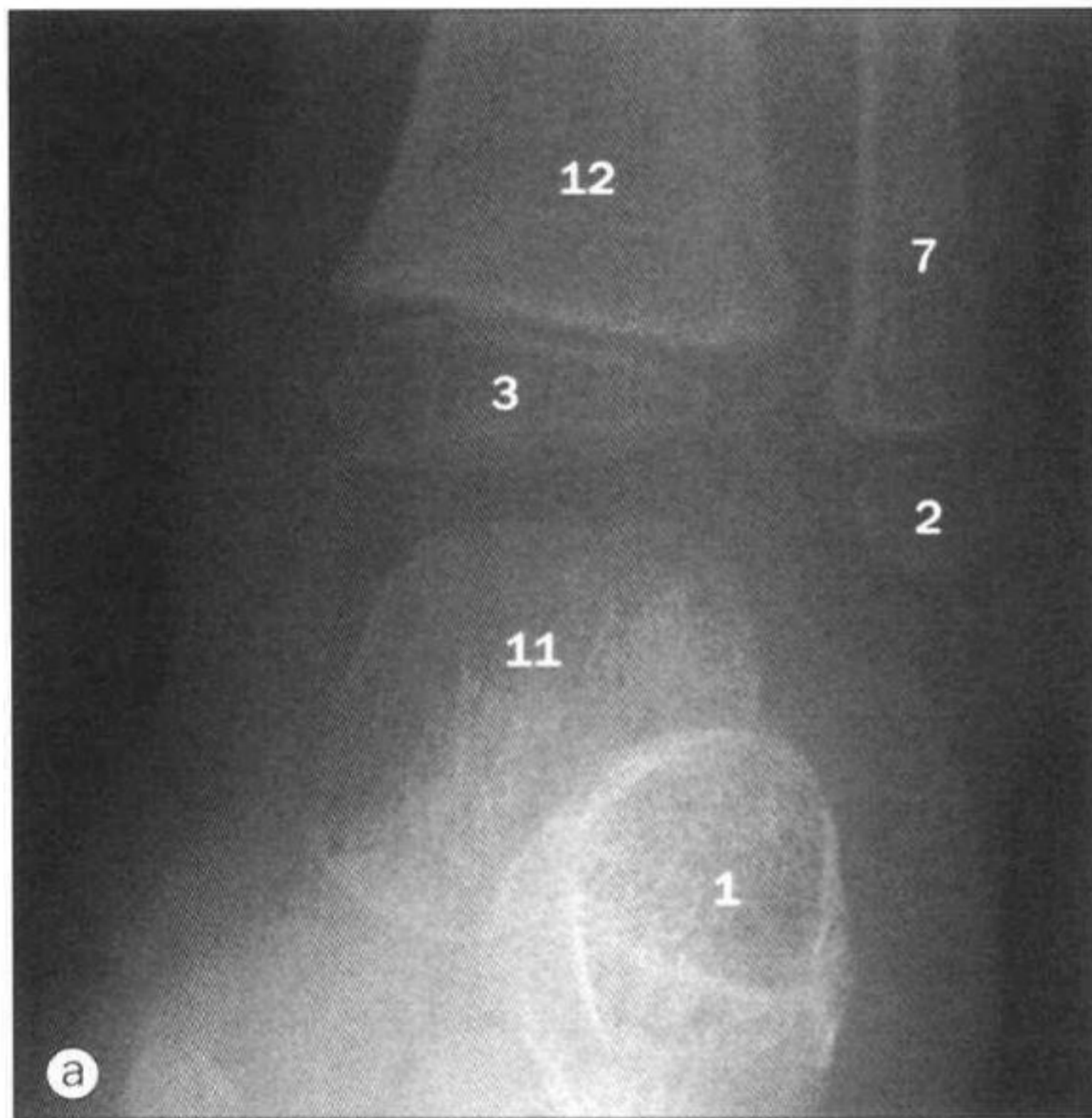


- | | |
|--|---|
| 1 近端胫骨结节骨化中心向前下方伸展
antero-inferior extension of proximal
tibial centre for tuberosity of tibia | 4 髌骨骨化中心 centre for patella |
| 2 远端股骨骨化中心
centre for distal femur | 5 近端胫骨骨化中心
centre for proximal tibia |
| 3 腓骨头骨化中心
centre for head of fibula | 6 骺线 epiphysial line |
| | 7 股骨 femur |
| | 8 腓骨 fibula |
| | 9 胫骨 tibia |



踝，X线。a. 前后位；b. 侧位；c. 跟骨，轴位。

- | | |
|--------------------------------------|--|
| 1 跟骨 calcaneus | 10 胫骨内踝 medial malleolus of tibia |
| 2 骰骨 cuboid | 11 跟骨内侧突 medial process of calcaneus |
| 3 腓骨 fibula | 12 距骨内侧结节 medial tubercle of talus |
| 4 距骨头 head of talus | 13 足舟骨 navicular |
| 5 外侧楔骨 lateral cuneiform | 14 下胫腓关节 region of inferior tibiofibular joint |
| 6 腓骨外踝 lateral malleolus of fibula | 15 跟骨载距突 dustentaculum tali of calcaneus |
| 7 跟骨外侧突 lateral process of calcaneus | 16 距骨 talus |
| 8 距骨外侧结节 lateral tubercle of talus | 17 胫骨 tibia |
| 9 内踝 medial malleolus | 18 第5跖骨粗隆 tuberosity of fifth metatarsal |



踝, X线。
a-b. 3岁男孩。
c-d. 5岁男孩。
e-f. 13岁男孩。

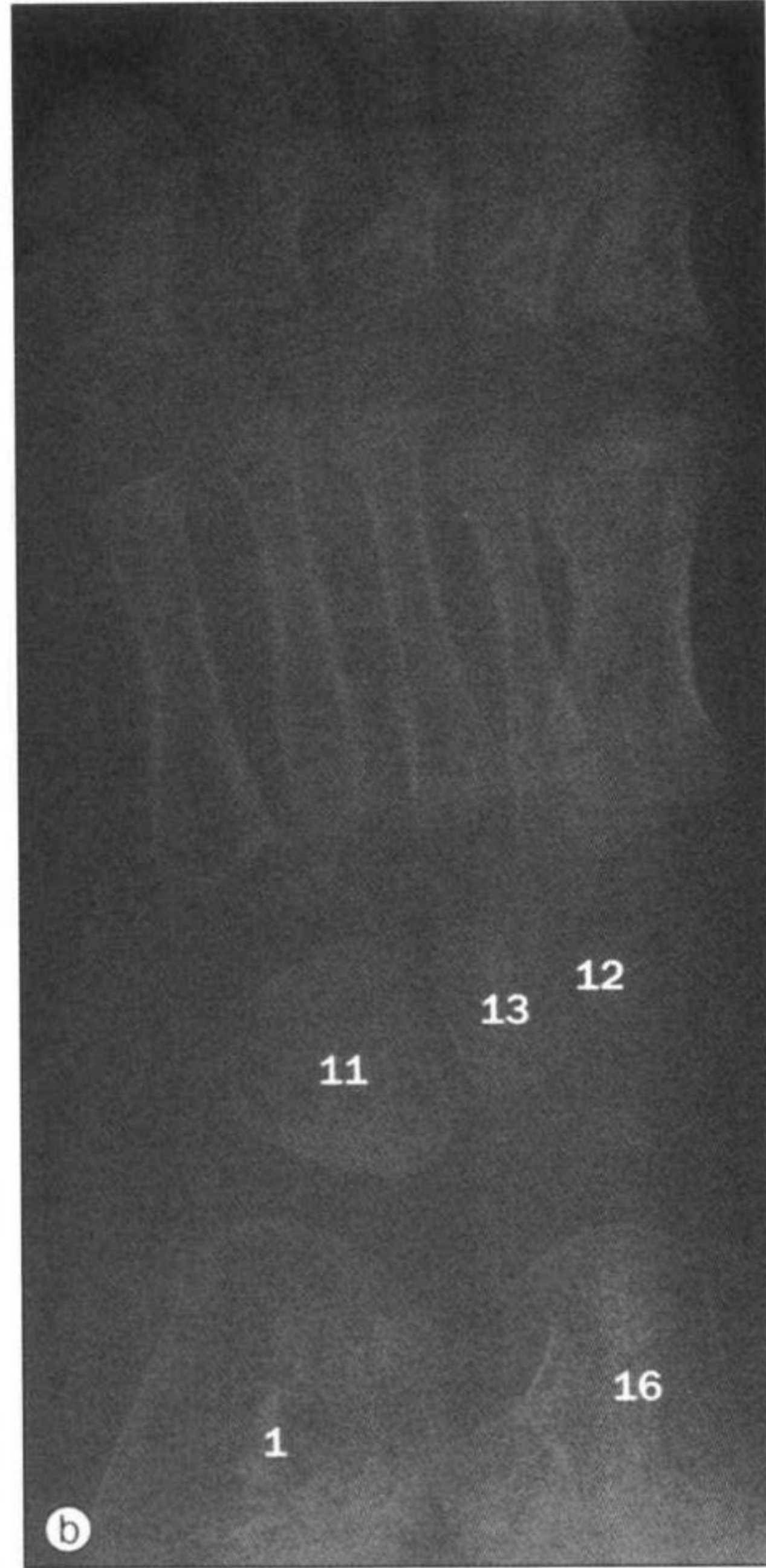
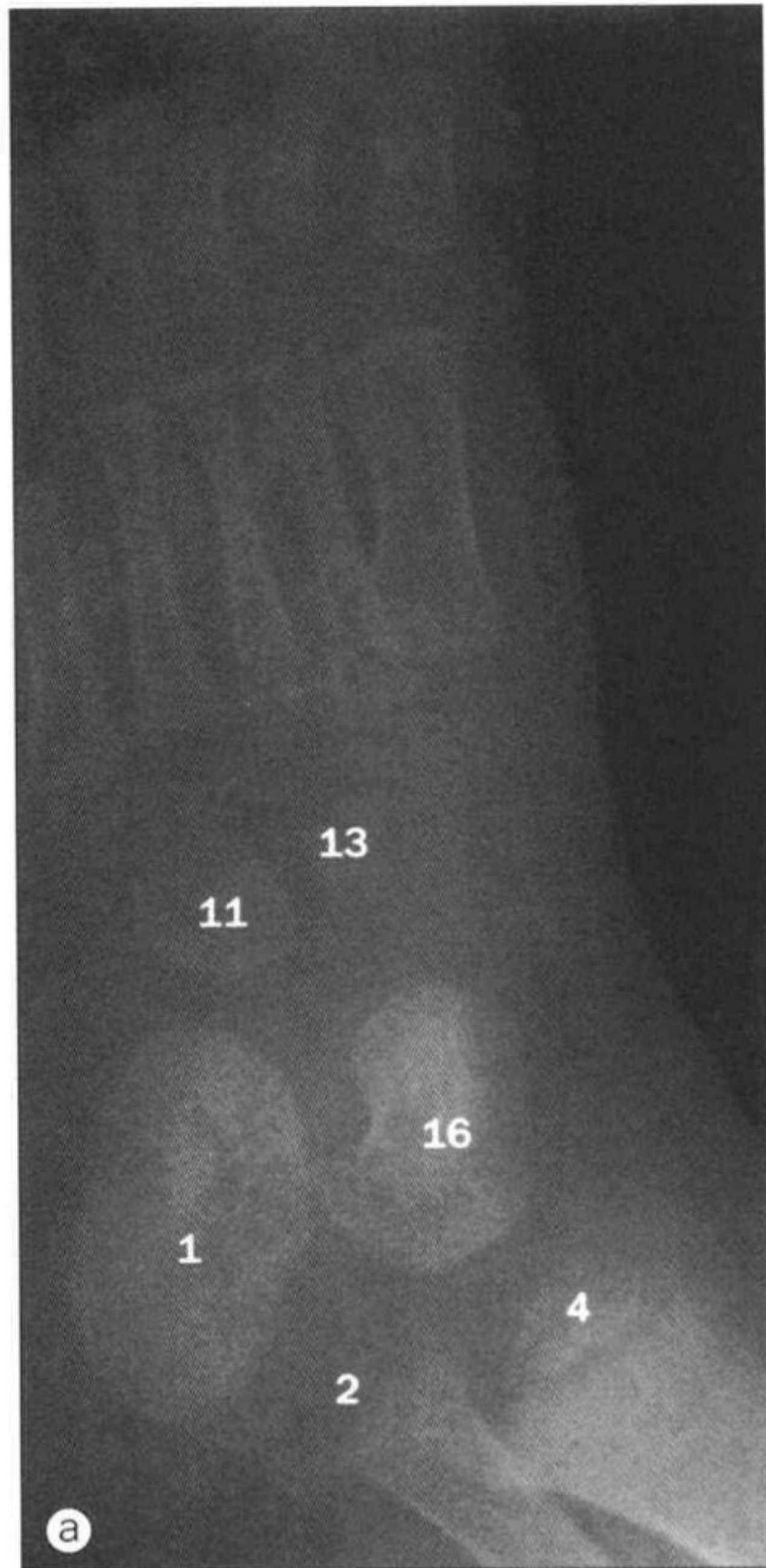
跗骨 (软骨骨化)	出现	融合
跟骨	3个月胎龄	14~16岁
距骨	6个月胎龄	
足舟骨	3岁	
外侧楔骨	6个月-1岁	
中间楔骨	2~3岁	
内侧楔骨	1~2岁	
骰骨	9个月胎龄	

1 跟骨 calcaneus	6 骺线 epiphysial line
2 远端腓骨骨化中心 centre for distal fibula	7 腓骨 fibula
3 远端胫骨骨化中心 centre for distal tibia	8 中间楔骨 intermediate cuneiform
4 跟骨后方骨化中心 centre for posterior aspect of calcaneus	9 外侧楔骨 lateral cuneiform
5 骰骨 cuboid	10 足舟骨 navicular
	11 距骨 talus
	12 胫骨 tibia



- 1 跟骨 calcaneus
- 2 骰骨 cuboid
- 3 第2趾远节趾骨 distal phalanx of second toe
- 4 第1跖骨 first metatarsal
- 5 中间楔骨 intermediate cuneiform
- 6 外侧楔骨 lateral cuneiform
- 7 内侧楔骨 medial cuneiform
- 8 第2趾中节趾骨 middle phalanx of second toe
- 9 足舟骨 navicular
- 10 第2趾近节趾骨 proximal phalanx of second toe
- 11 拇短屈肌处籽骨
sesamoid bones in flexor hallucis brevis muscle
- 12 距骨 talus
- 13 第5跖骨粗隆 tuberosity of fifth metatarsal

足，X线。a. 足背跖位；b. 足背跖斜位。

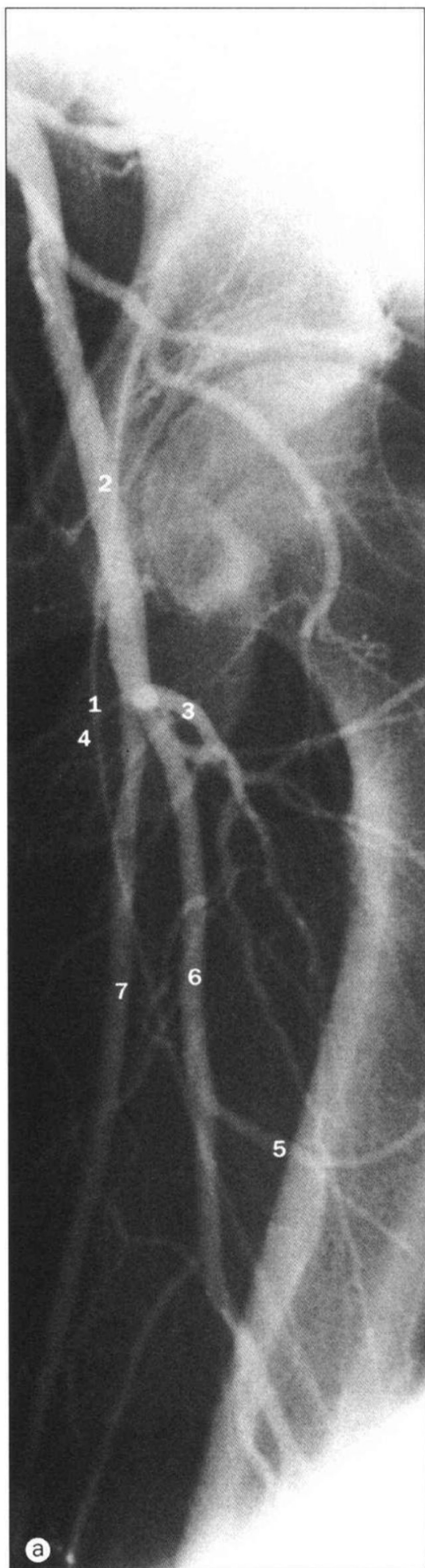


足, X线。

- a. 1岁男孩。
- b. 3岁男孩。
- c. 5岁男孩。
- d. 14岁男孩。

- 1 跟骨 calcaneus
- 2 腓骨远端骨化中心 centre for distal fibula
- 3 第2趾远节趾骨骨化中心 centre for distal phalanx of second toe
- 4 胫骨远端骨化中心 centre for distal tibia
- 5 第1跖骨骨化中心 centre for first metatarsal
- 6 第2趾中节趾骨骨化中心 centre for middle phalanx of second toe
- 7 跟骨后方骨化中心 centre for posterior aspect of calcaneus
- 8 第2趾近节趾骨骨化中心 centre for proximal phalanx of second toe
- 9 第2跖骨骨化中心 centre for second metatarsal (applies to second to fifth metatarsal)
- 10 第5跖骨粗隆骨化中心 centre for tuberosity of fifth metatarsal
- 11 骰骨 cuboid
- 12 中间楔骨 intermediate cuneiform
- 13 外侧楔骨 lateral cuneiform
- 14 内侧楔骨 medial cuneiform
- 15 足舟骨 navicular
- 16 距骨 talus

跖骨(软骨骨化)	出现	融合
跖骨干	9周胎龄	
跖骨头(2-5)或底(1)	3-4岁	17-20岁
第5跖骨粗隆	10-12岁	13-15岁
趾骨(软骨骨化)	出现	融合
趾骨干	9-12岁	17-19岁
趾骨底	1-6岁	14-18岁



a. 股动脉造影。

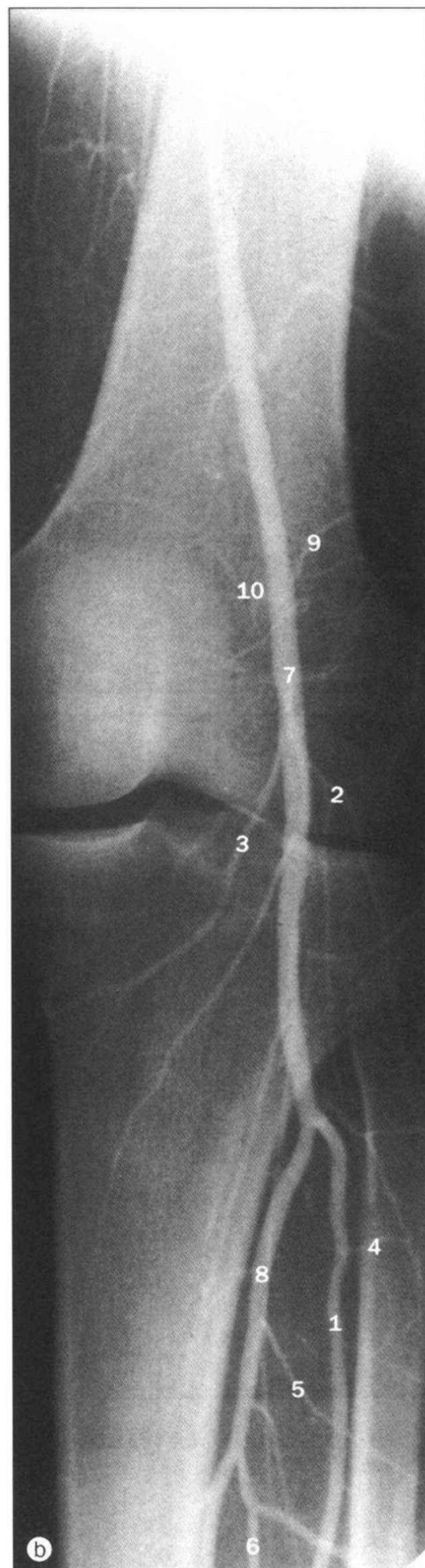
导管从腹主动脉远端插入，并注入对比剂。对比剂通过下肢时，显示股腘动脉及胫动脉。如果只要显示一侧下肢血管，则注入同侧股动脉即可。髂外动脉在腹股沟韧带深面移行为股动脉，并分出股浅动脉和股深动脉。斜位片通常有助于辨认股动脉分叉和这些血管起源端的硬化情况。

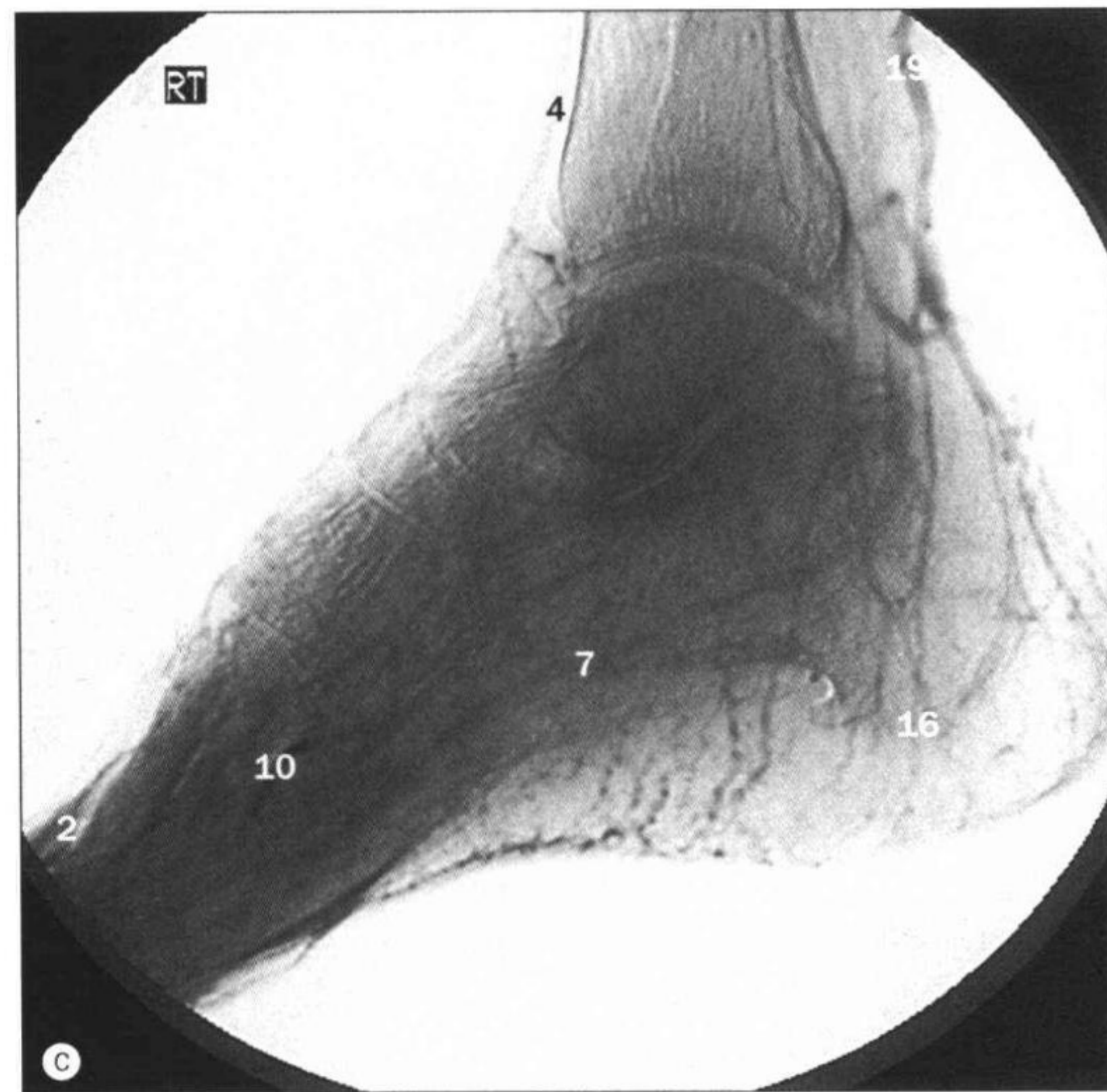
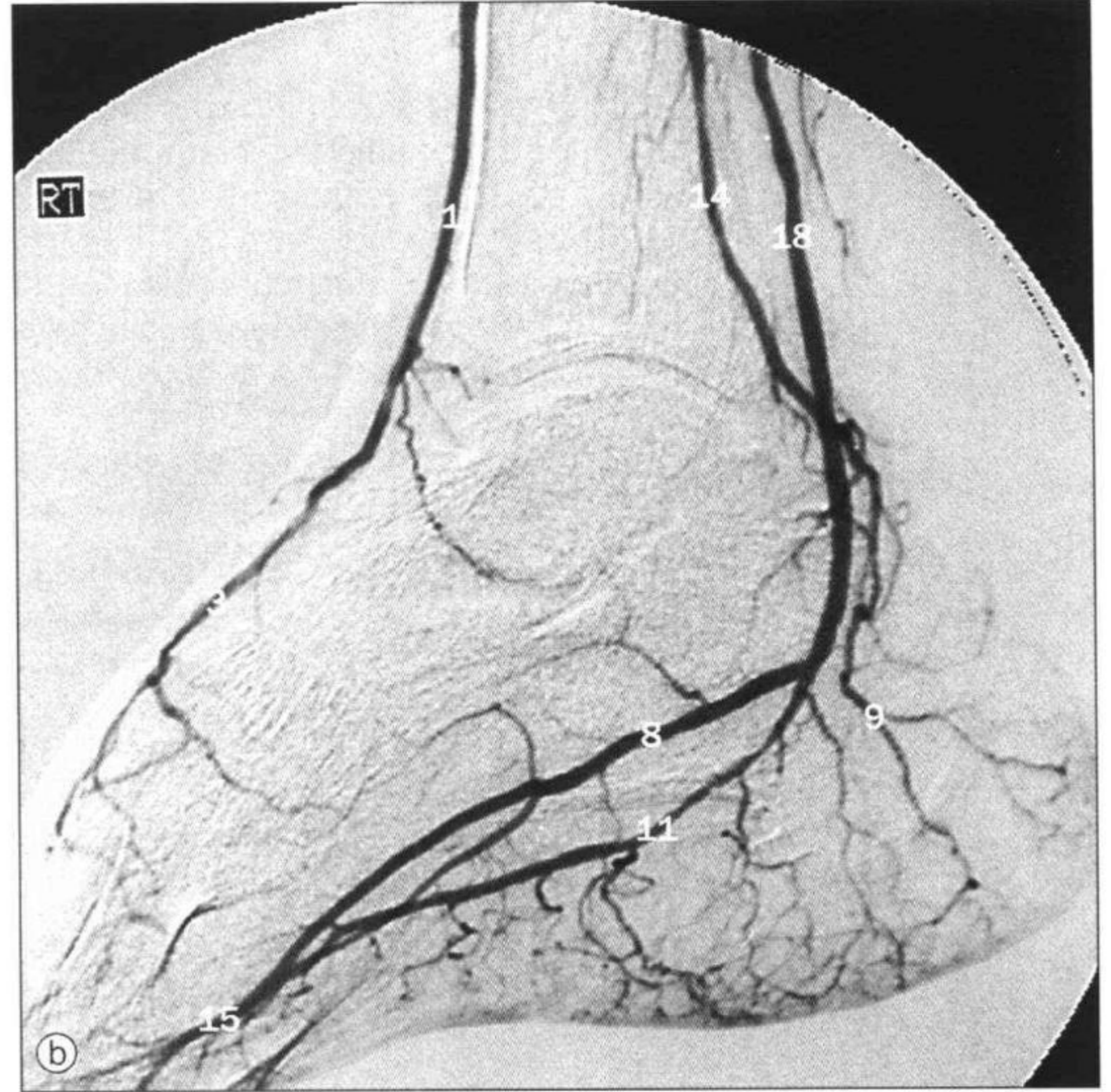
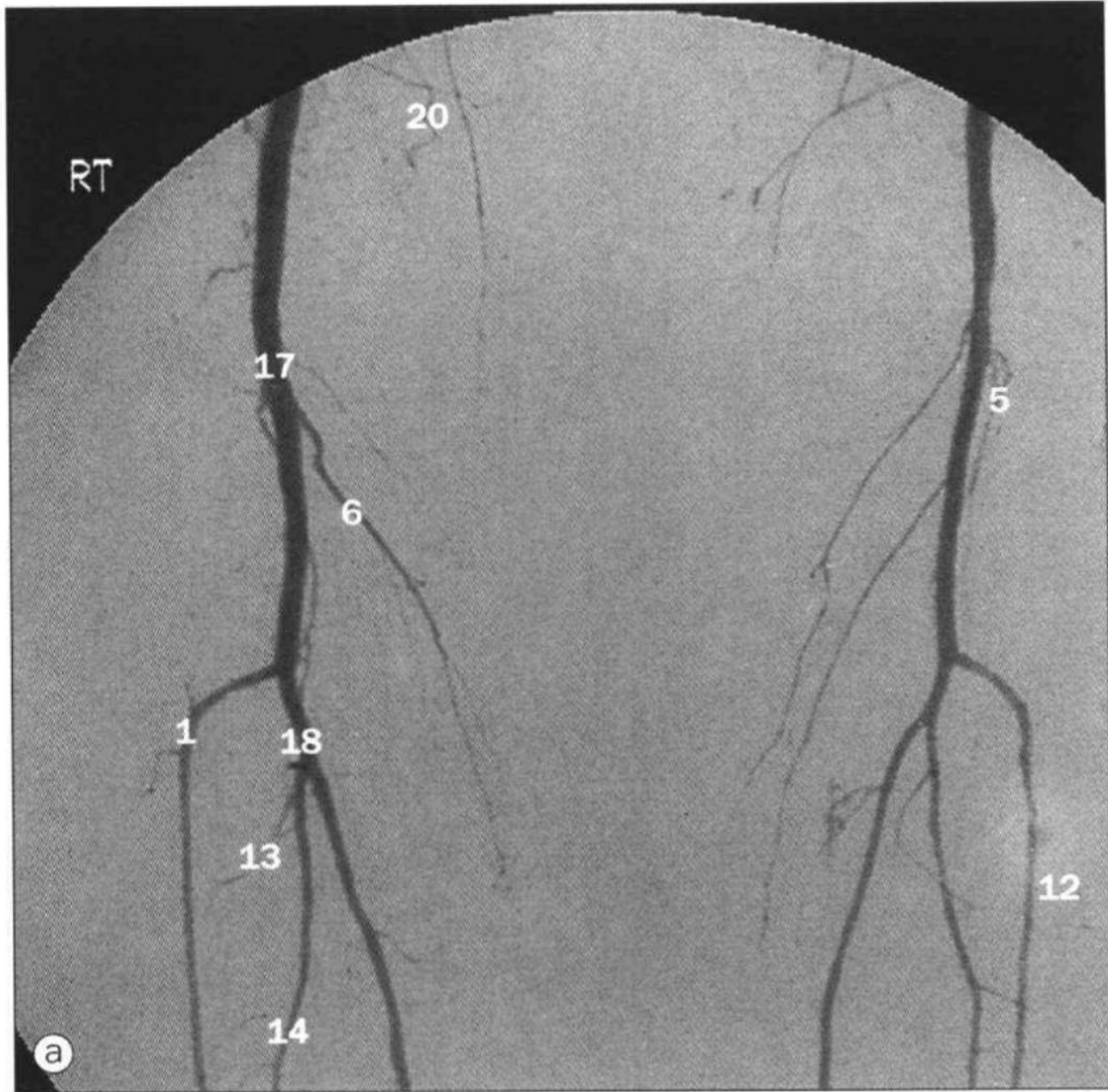
- 1 导管通过左股动脉进入腹主动脉远端
catheter introduced into distal abdominal aorta via left femoral artery
- 2 股总动脉 common femoral artery
- 3 旋股外侧动脉
lateral circumflex femoral artery
- 4 旋股内侧动脉
medial circumflex femoral artery
- 5 穿动脉 perforating artery
- 6 股深动脉 profunda femoris artery
- 7 股浅动脉 superficial femoral artery

b. 腘动脉造影。

股动脉在收肌腱裂孔移行为腘动脉，腘动脉在腘肌下缘移行为胫前后动脉。

- 1 胫前动脉 anterior tibial artery
- 2 膝下外侧动脉
inferior lateral genicular artery
- 3 膝下内侧动脉
inferior medial genicular artery
- 4 胫前动脉肌支
muscular branches of anterior tibial artery
- 5 胫后动脉肌支
muscular branches of posterior tibial artery
- 6 腓动脉 peroneal artery
- 7 腘动脉 popliteal artery
- 8 胫后动脉 posterior tibial artery
- 9 膝上外侧动脉
superior lateral genicular artery
- 10 膝上内侧动脉
superior medial genicular artery





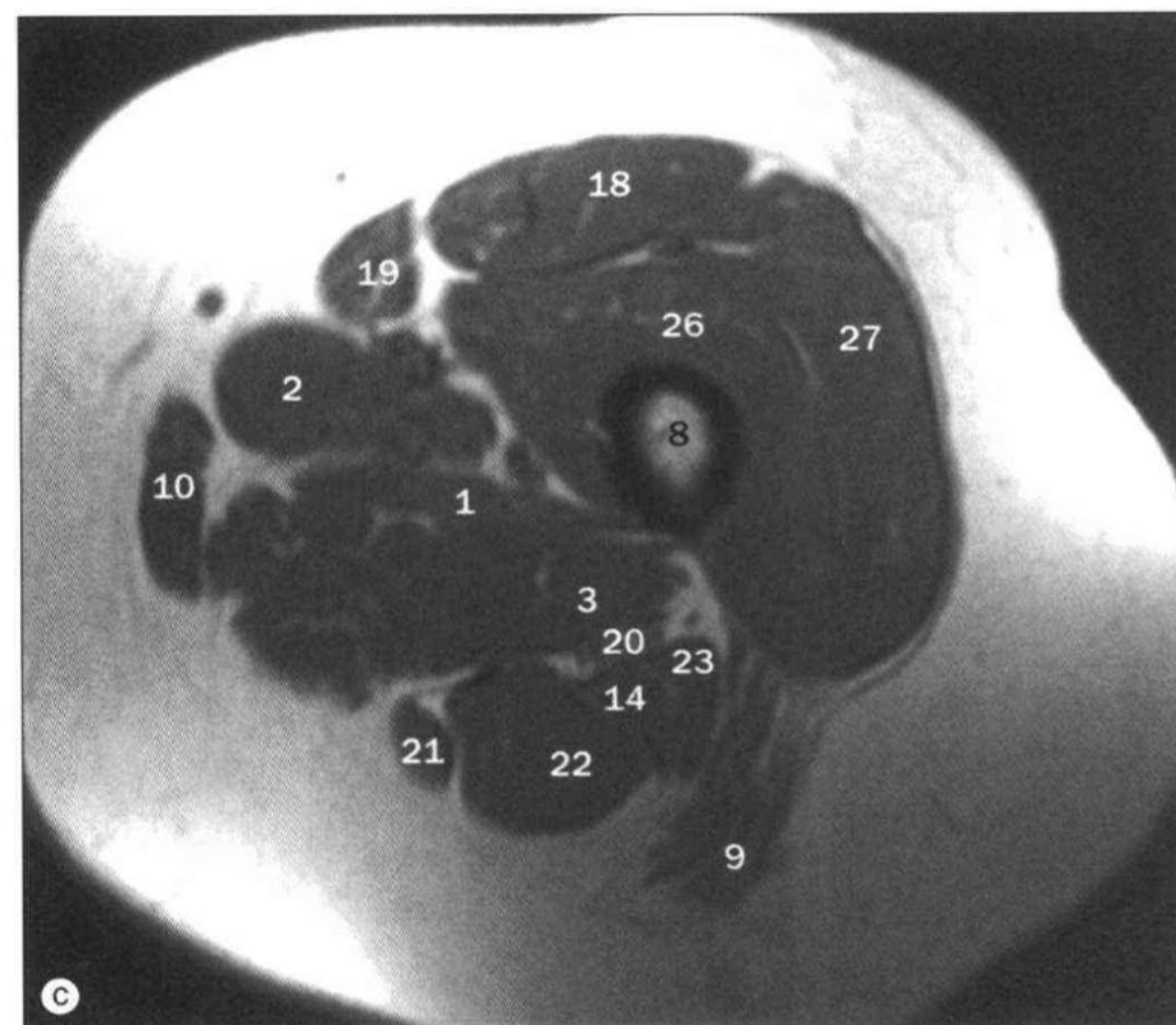
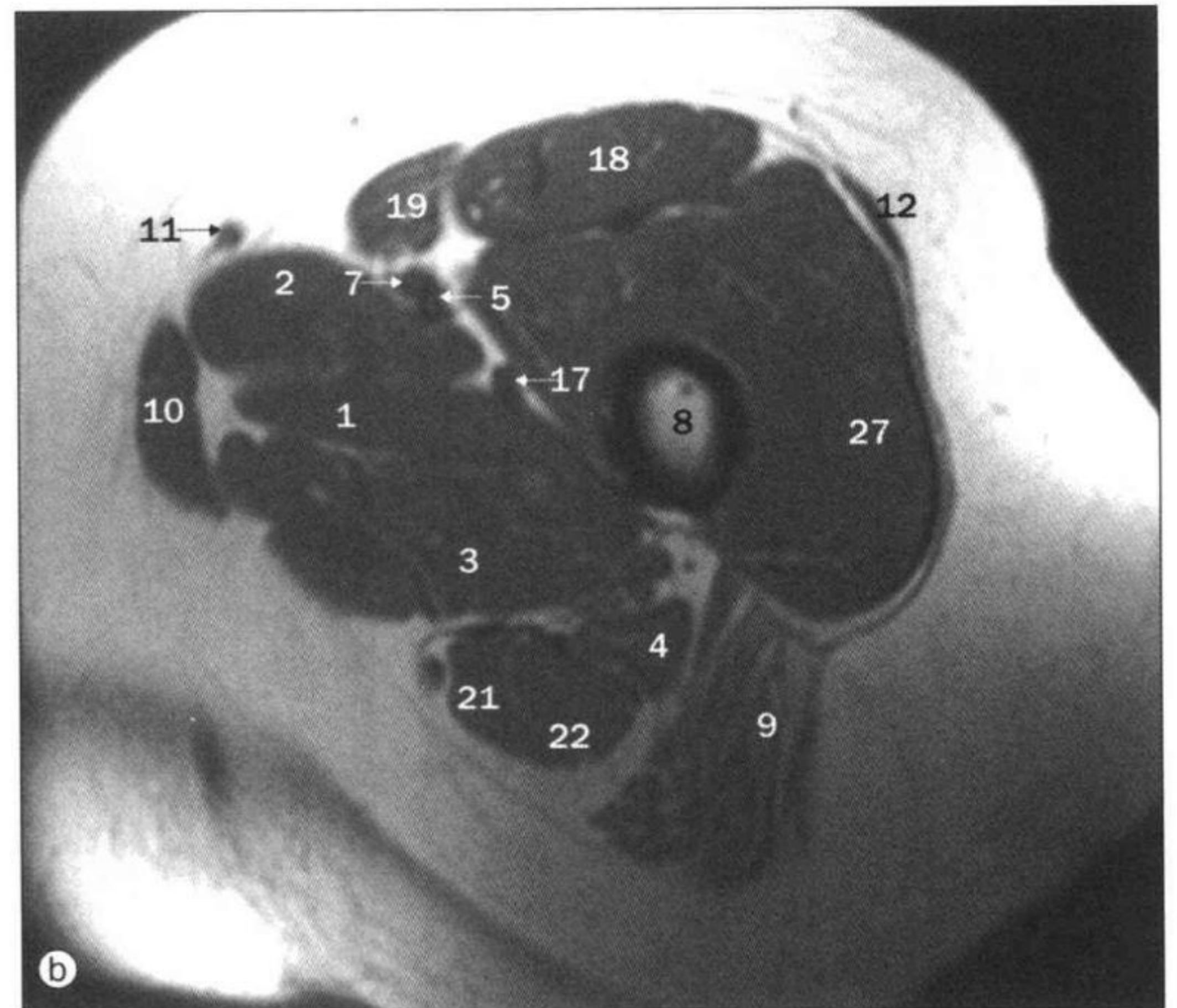
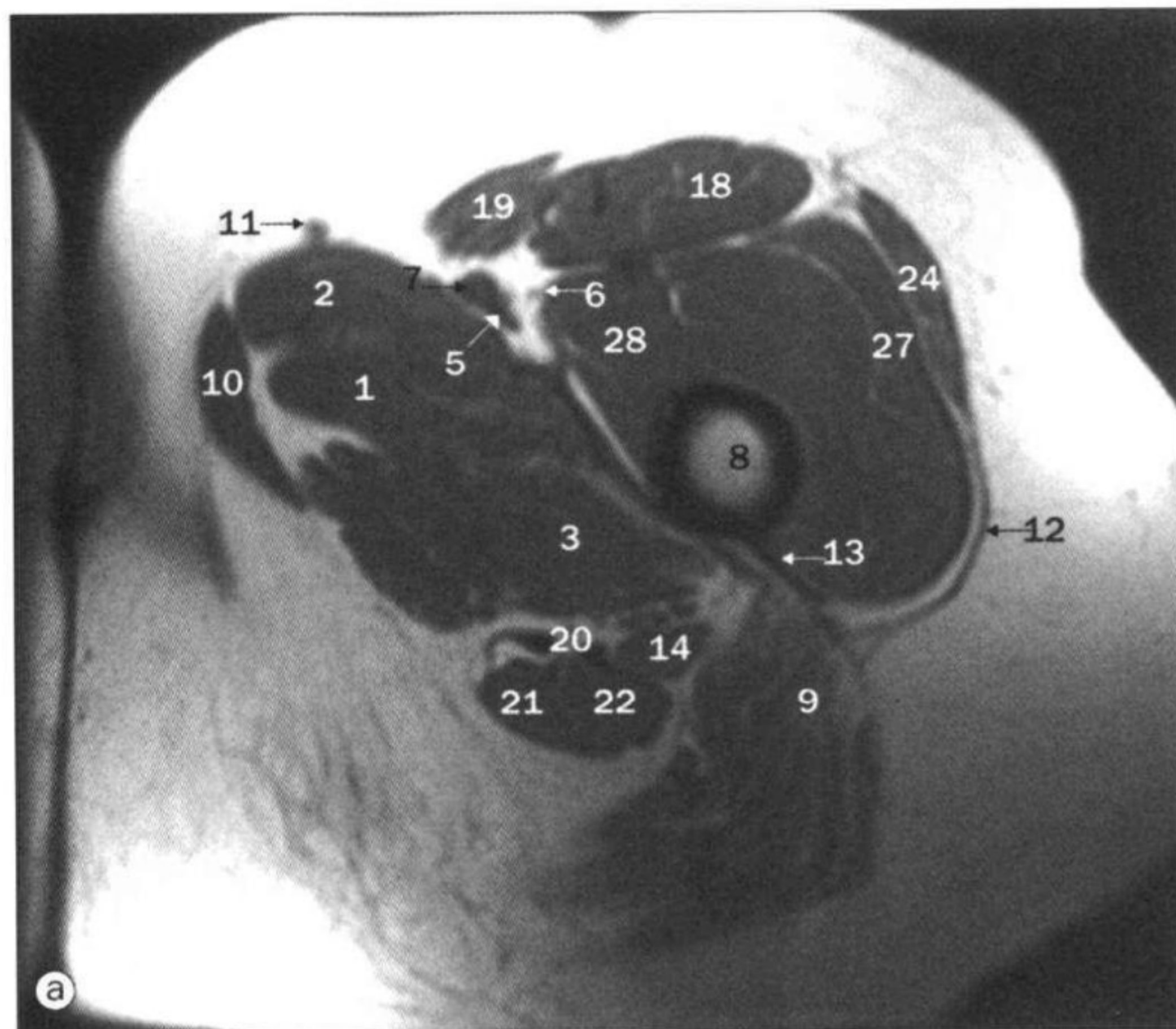
a. 腘动脉造影；b. 足动脉造影，外侧位；c. 足静脉造影。

- 1 胫前动脉 anterior tibial artery
- 2 足背静脉弓 dorsal venous arch
- 3 足背动脉 dorsalis pedis artery
- 4 大隐静脉 great saphenous vein
- 5 膝下外侧动脉 inferior lateral genicular artery
- 6 膝下内侧动脉 inferior medial genicular artery
- 7 外侧缘静脉 lateral marginal vein
- 8 足底外侧动脉 lateral plantar artery
- 9 内侧跟动脉 medial calcaneal artery
- 10 内侧缘静脉 medial marginal vein
- 11 足底内侧动脉 medial plantar artery
- 12 胫前动脉肌支
muscular branches of anterior tibial artery
- 13 胫后动脉肌支
muscular branches of posterior tibial artery
- 14 腓动脉 peroneal artery
- 15 足底弓 plantar arch
- 16 足底皮下静脉丛 plantar cutaneous venous plexus
- 17 腘动脉 popliteal artery
- 18 胫后动脉 posterior tibial artery
- 19 小隐静脉 small saphenous vein
- 20 膝上内侧动脉 superior medial genicular artery



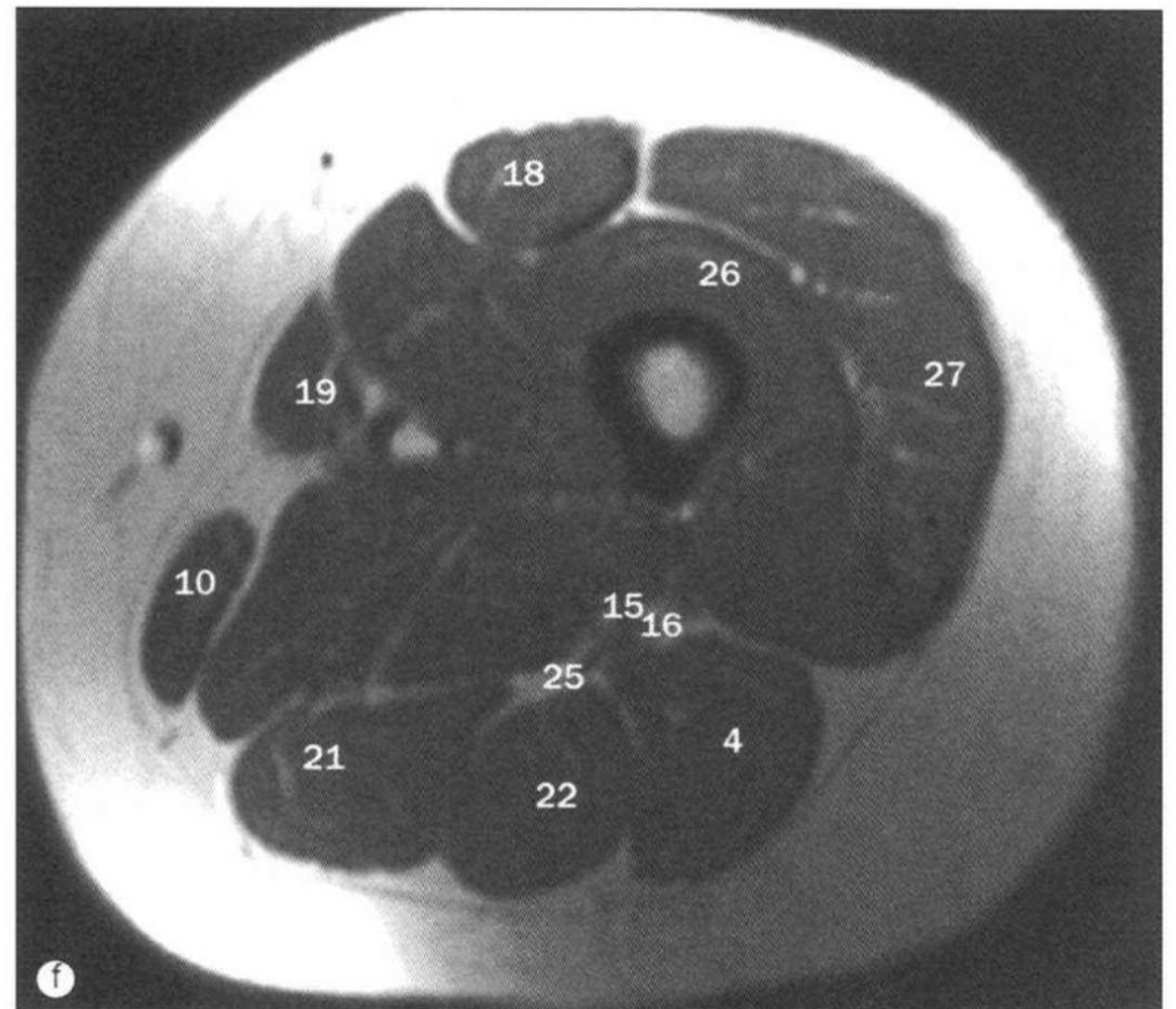
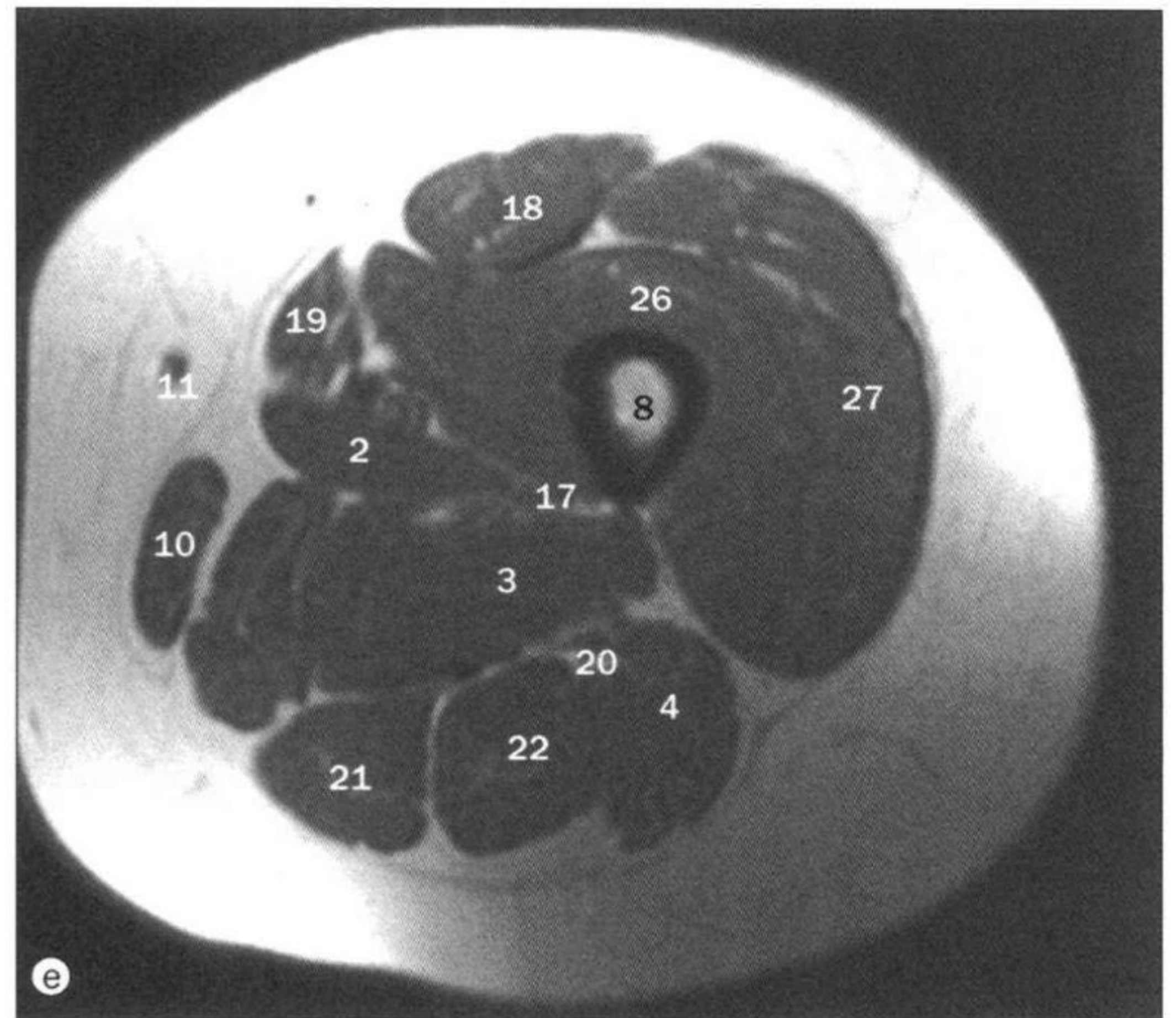
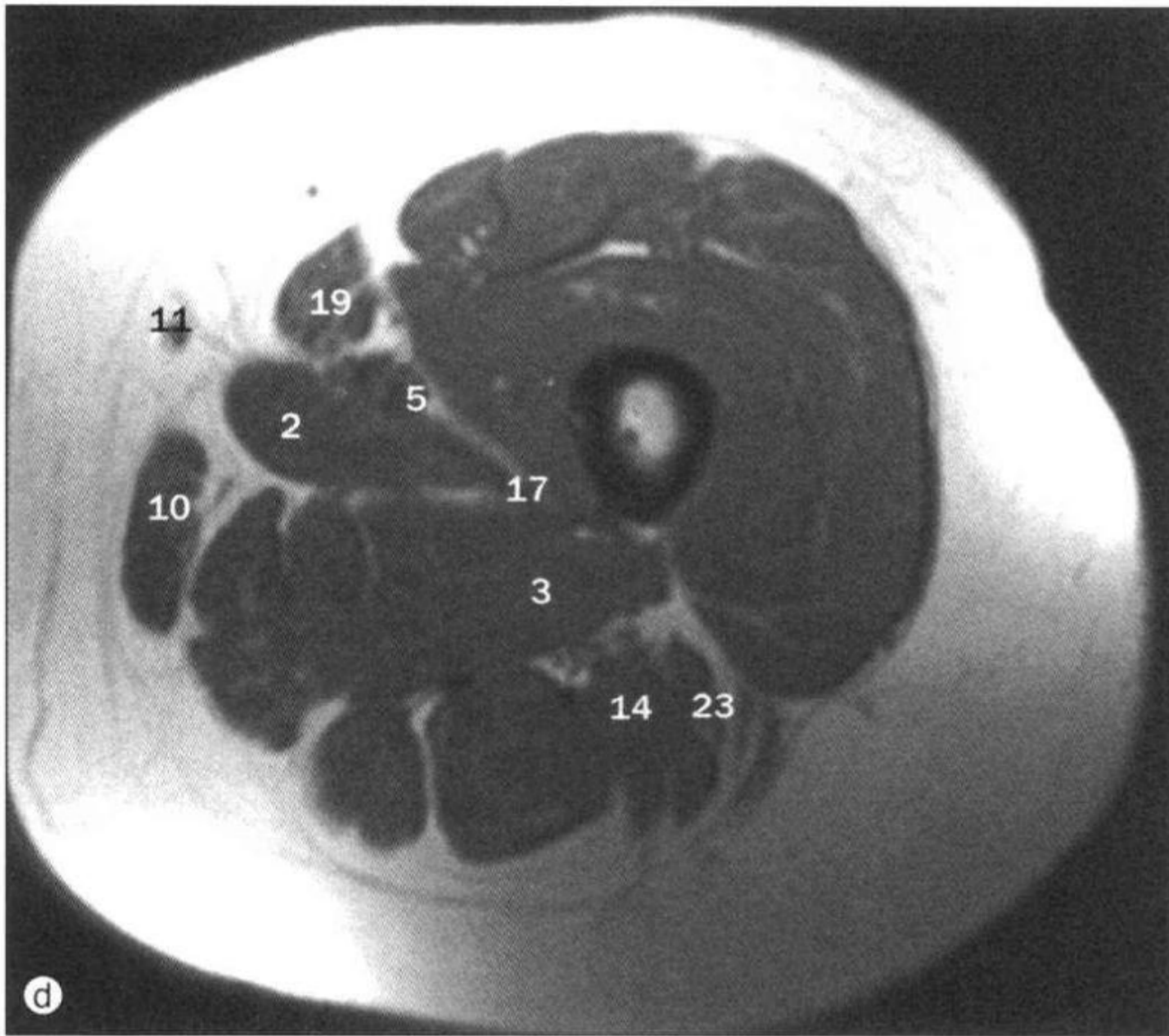
a~c. 下肢静脉造影。

- 1 胫前静脉 anterior tibial vein
- 2 股静脉 femoral vein
- 3 大隐静脉 great (long) saphenous vein
- 4 旋股外侧静脉 lateral circumflex femoral vein
- 5 股静脉肌支 muscular tributary of femoral vein
- 6 穿静脉 perforating vein
- 7 腓静脉 popliteal vein
- 8 胫后静脉 posterior tibial veins
- 9 静脉瓣 venous valves



a~f. 大腿，轴位 MRI。

- | | | |
|----|--------|------------------------------------|
| 1 | 短收肌 | adductor brevis muscle |
| 2 | 长收肌 | adductor longus muscle |
| 3 | 大收肌 | adductor magnus muscle |
| 4 | 股二头肌 | biceps femoris muscle |
| 5 | 股动脉 | femoral artery |
| 6 | 股神经 | femoral nerve |
| 7 | 股静脉 | femoral vein |
| 8 | 股骨 | femur |
| 9 | 臀大肌 | gluteus maximus muscle |
| 10 | 股薄肌 | gracilis muscle |
| 11 | 大隐静脉 | great (long) saphenous vein |
| 12 | 髂胫束 | iliotibial tract |
| 13 | 外侧肌间隔 | lateral intermuscular septum |
| 14 | 股二头肌长头 | long head of biceps femoris muscle |



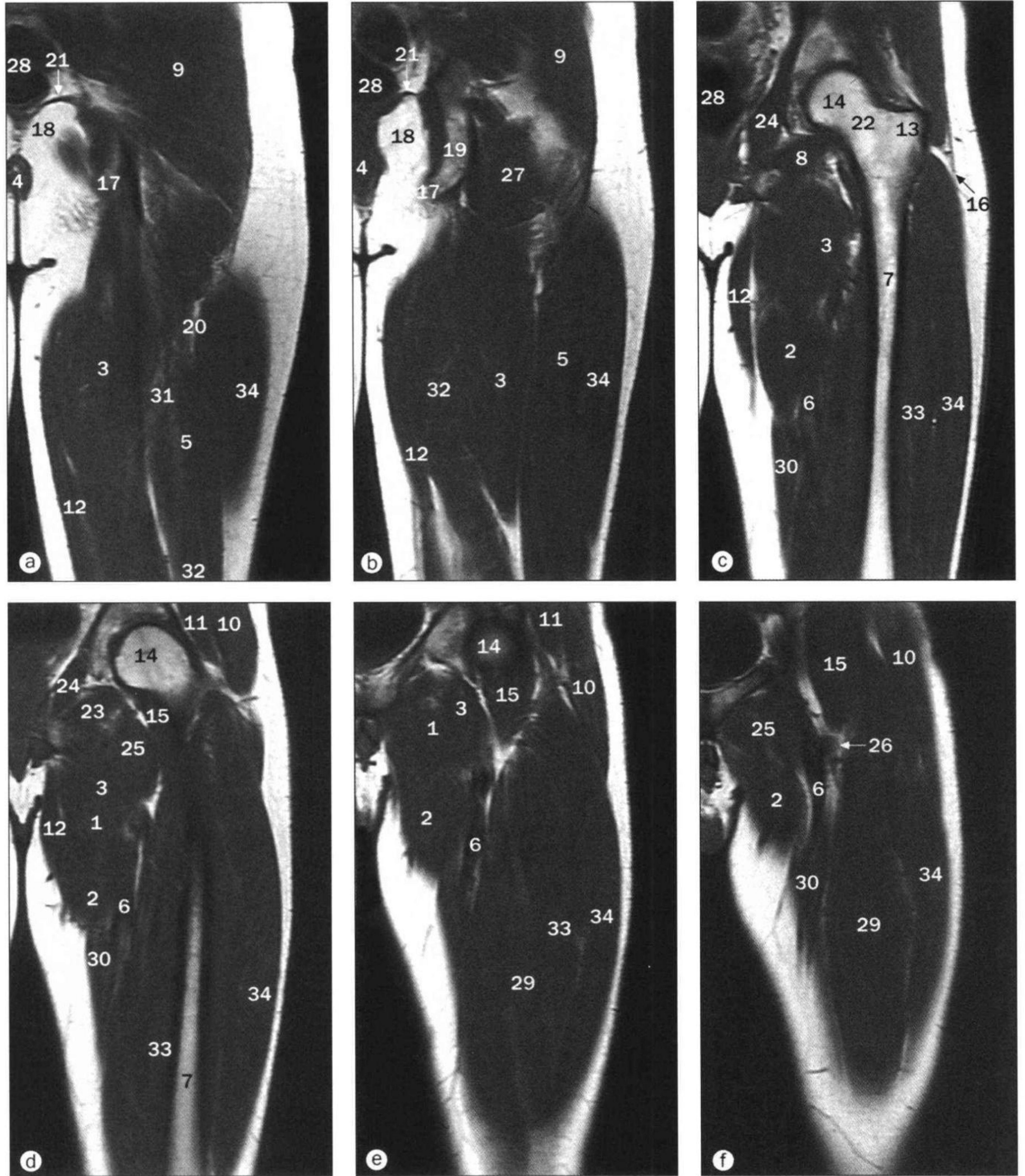
- 15 腘动脉 popliteal artery
- 16 腘静脉 popliteal vein
- 17 股深动脉 profunda femoris artery
- 18 股直肌 rectus femoris muscle
- 19 缝匠肌 sartorius muscle
- 20 坐骨神经 sciatic nerve
- 21 半膜肌 semimembranosus muscle
- 22 半腱肌 semitendinosus muscle
- 23 股二头肌短头 short head of biceps femoris
- 24 阔筋膜张肌 tensor fasciae latae muscle
- 25 胫神经 tibial nerve
- 26 股中间肌 vastus intermedius muscle
- 27 股外侧肌 vastus lateralis muscle
- 28 股内侧肌 vastus medialis muscle



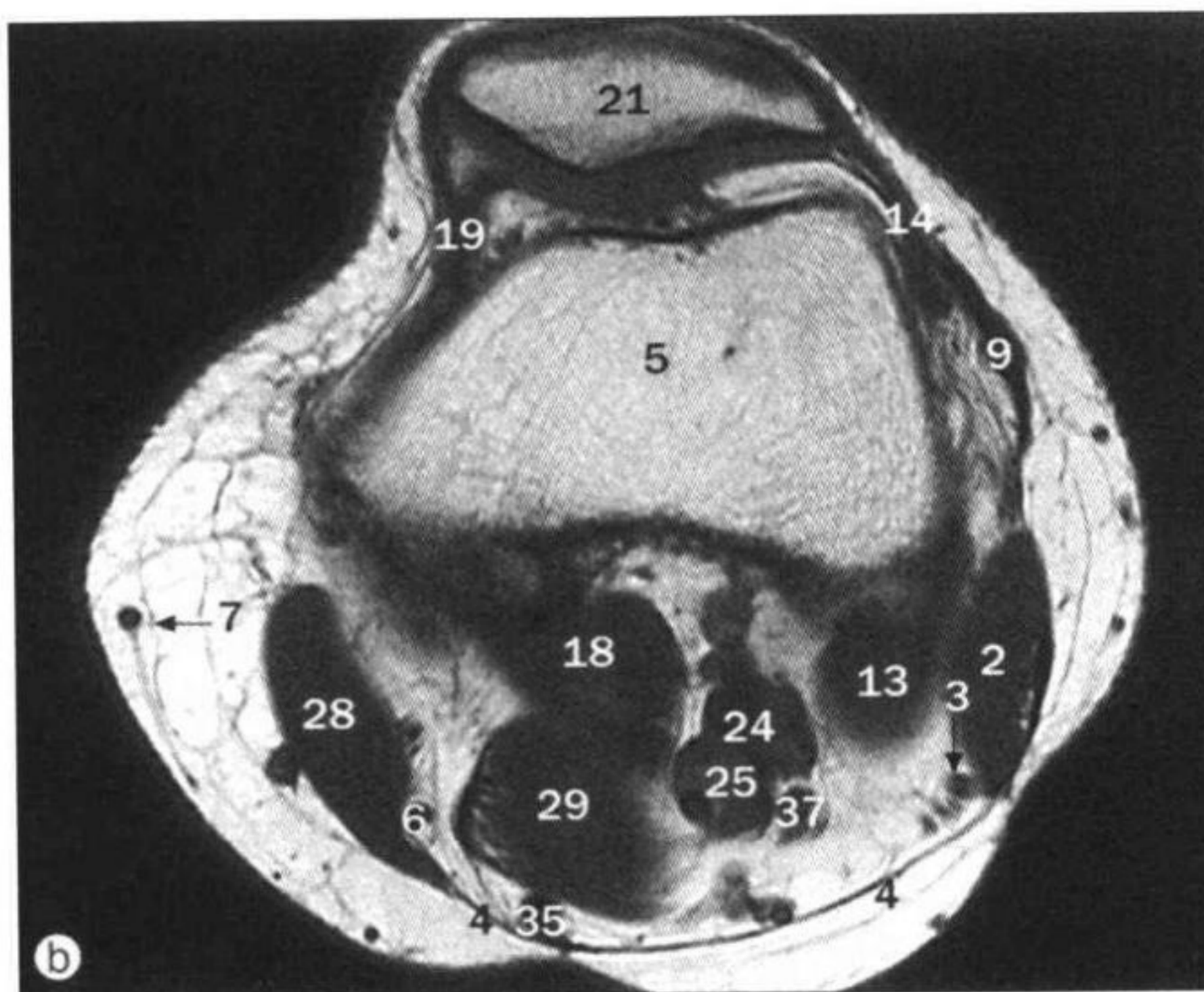
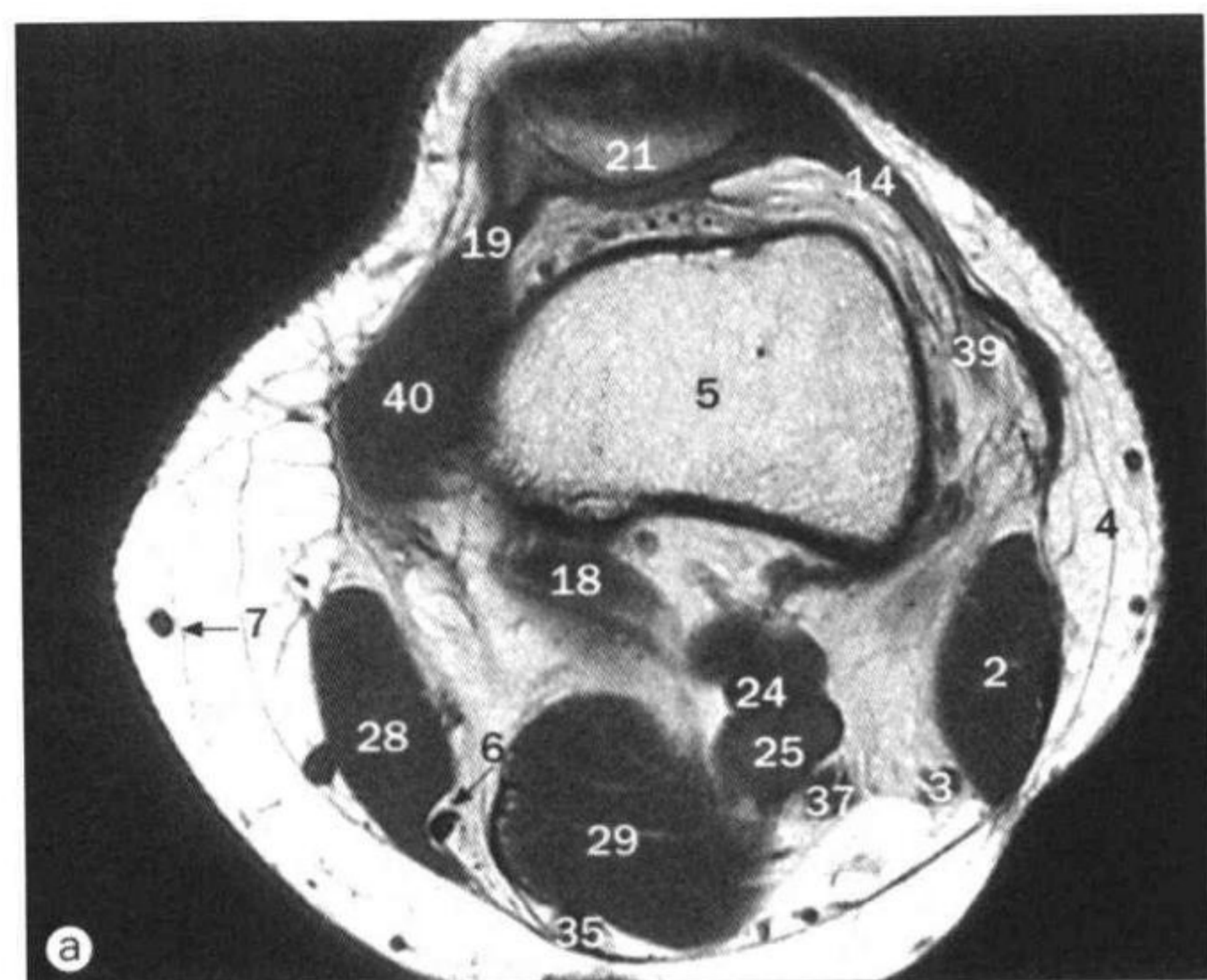
a~f. 大腿，矢状位 MRI。

- | | | |
|------------------------------|---|--|
| 1 髋臼 acetabulum | 10 腓肠肌外侧头
lateral head of gastrocnemius muscle | 18 缝匠肌 sartorius muscle |
| 2 长收肌 adductor longus muscle | 11 闭孔外肌 obturator externus muscle | 19 半膜肌 semimembranosus muscle |
| 3 大收肌 adductor magnus muscle | 12 耻骨肌 pectineus muscle | 20 半腱肌 semitendinosus muscle |
| 4 股二头肌 biceps femoris muscle | 13 梨状肌 piriformis muscle | 21 收肌管(Hunter管)
subsartorial canal (Hunter's canal) |
| 5 股动脉 femoral artery | 14 腘动脉 popliteal artery | 22 股四头肌肌腱 tendon of quadriceps muscle |
| 6 股骨 femur | 15 腘静脉 popliteal vein | 23 股中间肌 vastus intermedius muscle |
| 7 臀大肌 gluteus maximus muscle | 16 股四头肌 quadratus femoris muscle | 24 股外侧肌 vastus lateralis muscle |
| 8 股骨头 head of femur | 17 股直肌 rectus femoris muscle | 25 股内侧肌 vastus medialis muscle |
| 9 髂腰肌 iliopsoas muscle | | |

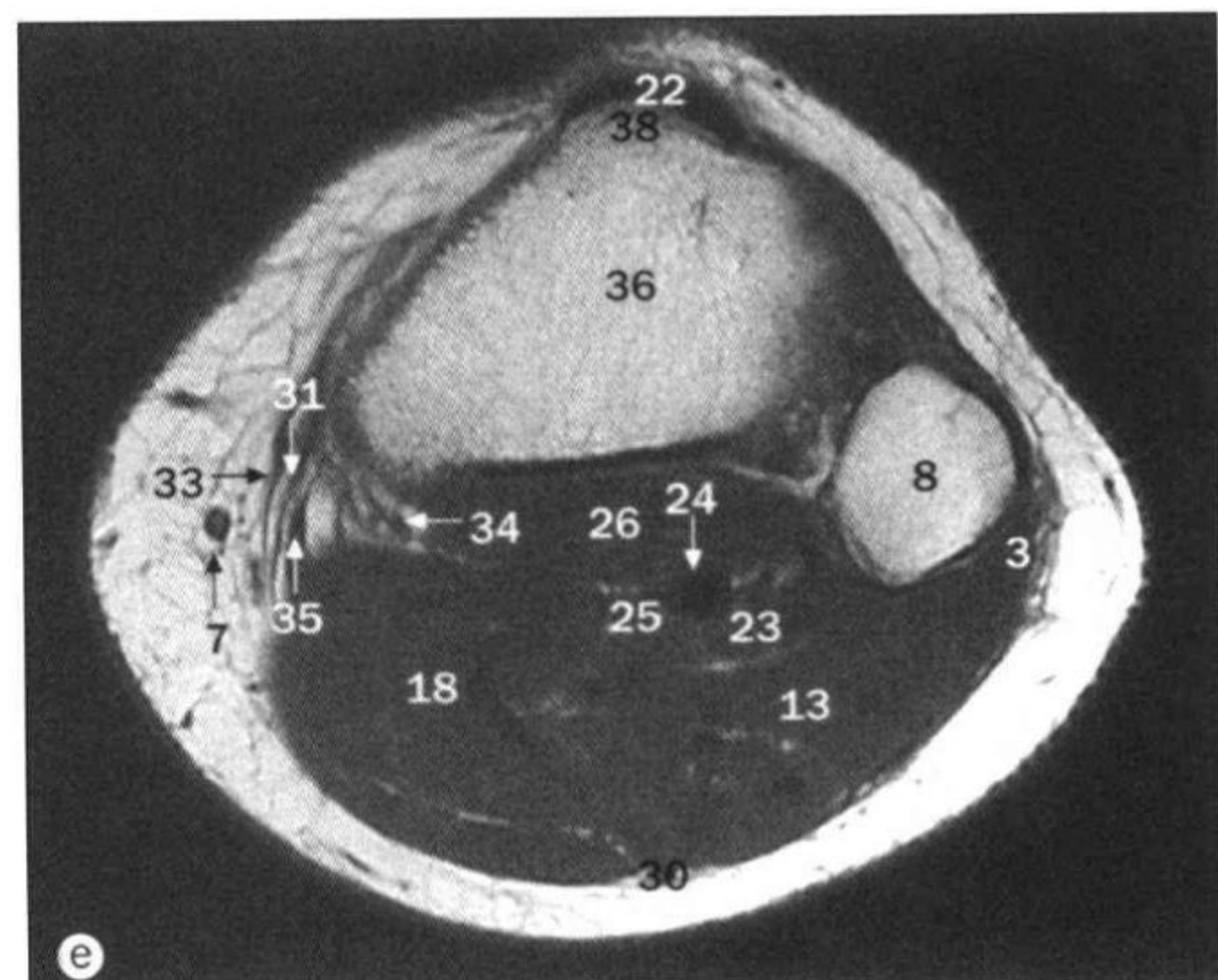
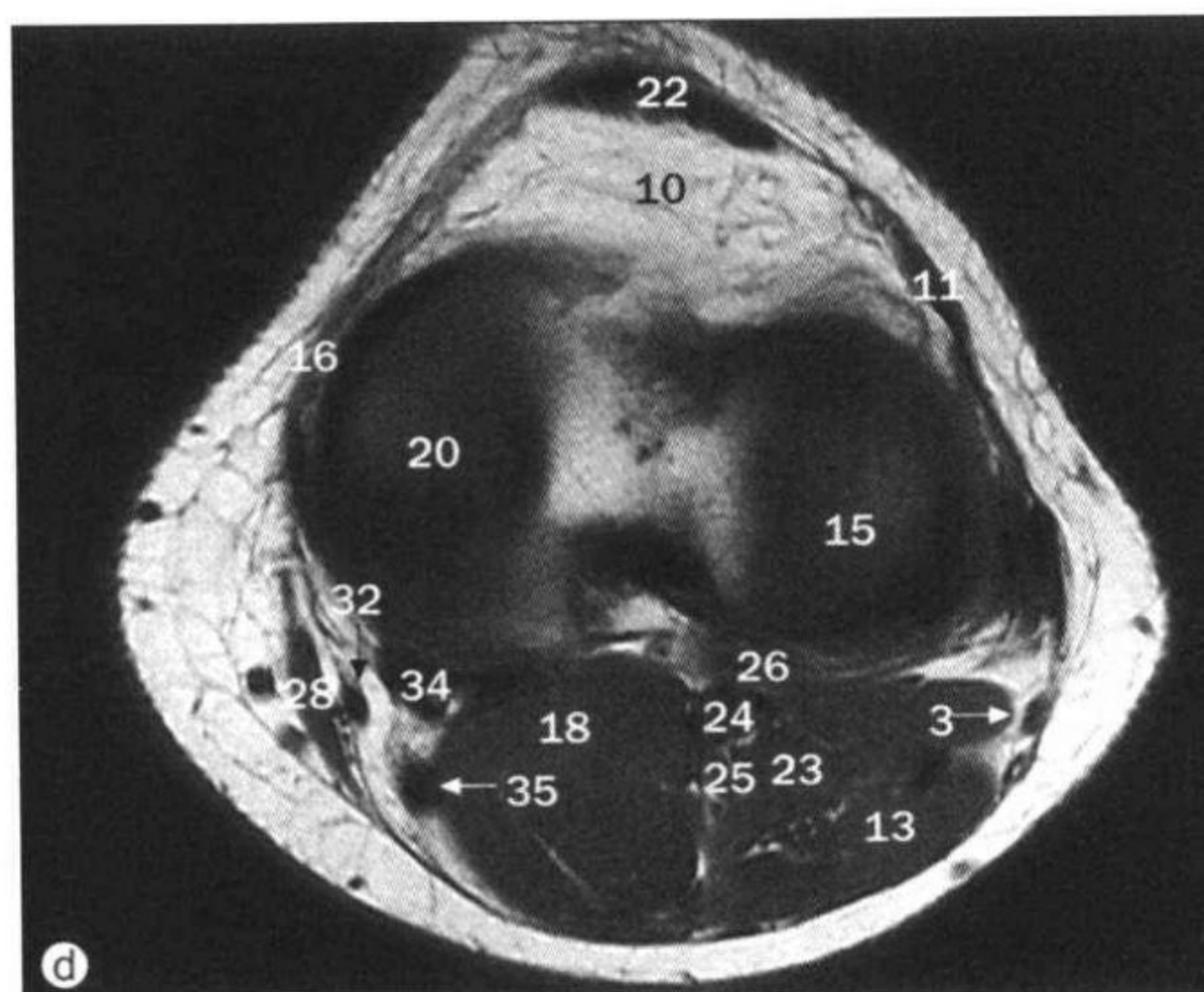
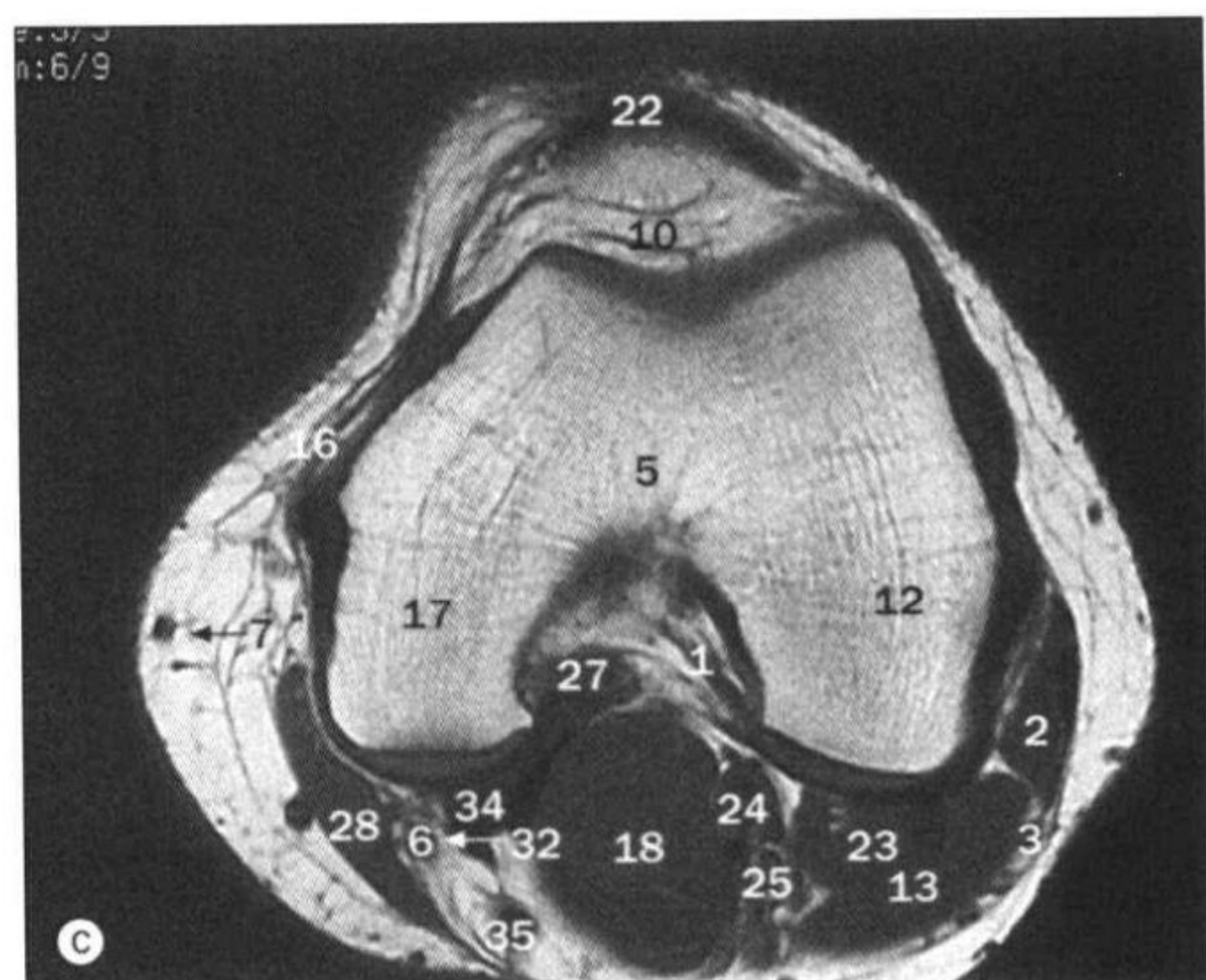
a~f. 大腿，
冠状位 MRI。



- | | | |
|-------------------------------|---------------------------------------|-----------------------------------|
| 1 短收肌 adductor brevis muscle | 13 股骨大转子 greater trochanter of femur | 24 闭孔内肌 obturator internus muscle |
| 2 长收肌 adductor longus muscle | 14 股骨头 head of femur | 25 耻骨肌 pectineus muscle |
| 3 大收肌 adductor magnus muscle | 15 髂腰肌 iliopsoas muscle | 26 股深动脉 profunda femoris artery |
| 4 肛管 anal canal | 16 髂胫束 iliotibial tract | 27 股四头肌 quadratus femoris muscle |
| 5 股二头肌 biceps femoris muscle | 17 坐骨结节 ischial tuberosity | 28 直肠 rectum |
| 6 股动脉 femoral artery | 18 坐骨肛门窝 ischio-anal fossa | 29 股直肌 rectus femoris muscle |
| 7 股骨 femur | 19 坐骨 ischium | 30 缝匠肌 sartorius muscle |
| 8 孖肌 gemellus muscle | 20 外侧肌间隔 lateral intermuscular septum | 31 半膜肌 semimembranosus muscle |
| 9 臀大肌 gluteus maximus muscle | 21 肛提肌 levator ani muscle | 32 半腱肌 semitendinosus muscle |
| 10 臀中肌 gluteus medius muscle | 22 股骨颈 neck of femur | 33 股中间肌 vastus intermedius muscle |
| 11 臀小肌 gluteus minimus muscle | 23 闭孔外肌 obturator externus muscle | 34 股外侧肌 vastus lateralis muscle |
| 12 股薄肌 gracilis muscle | | |

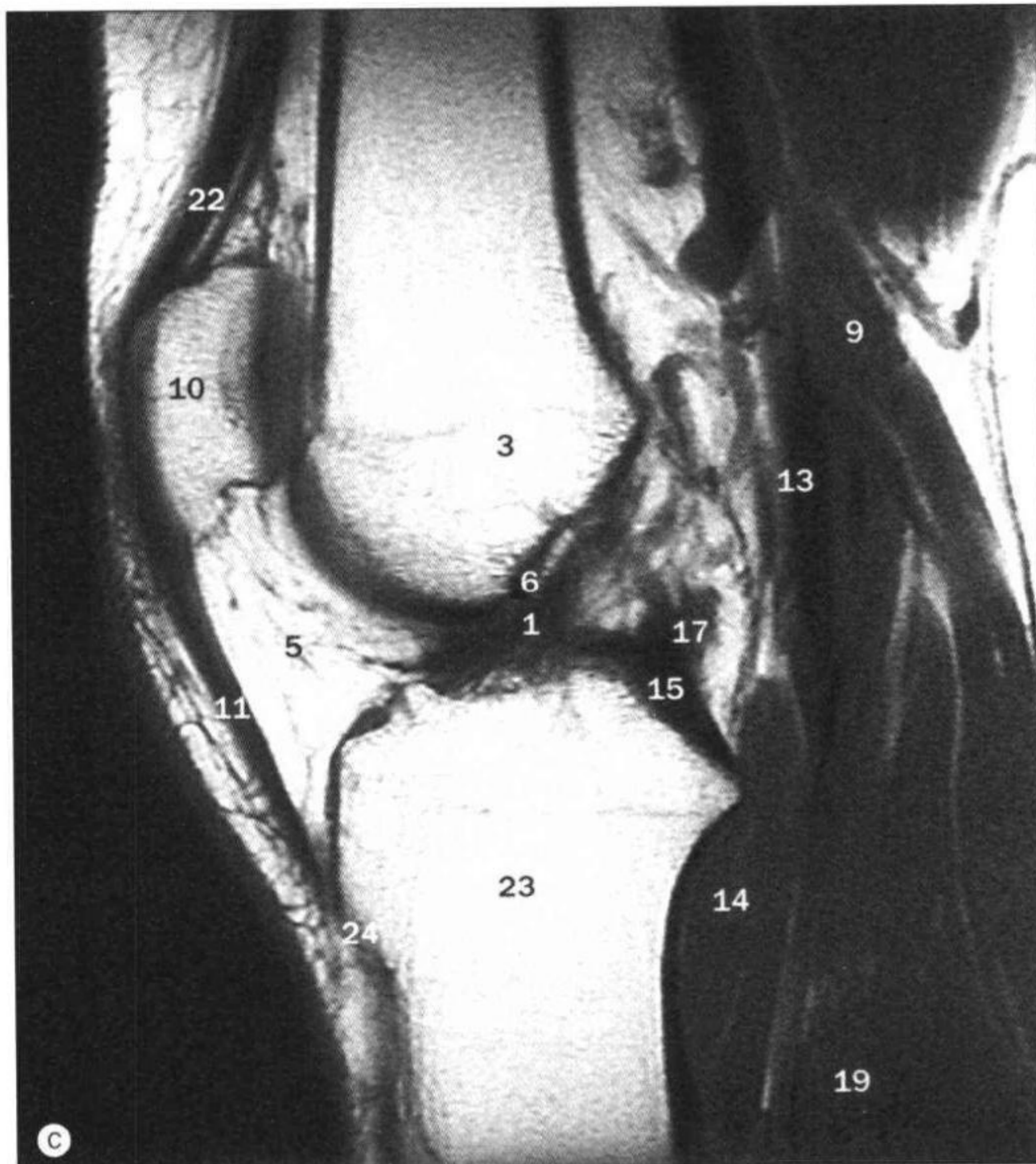
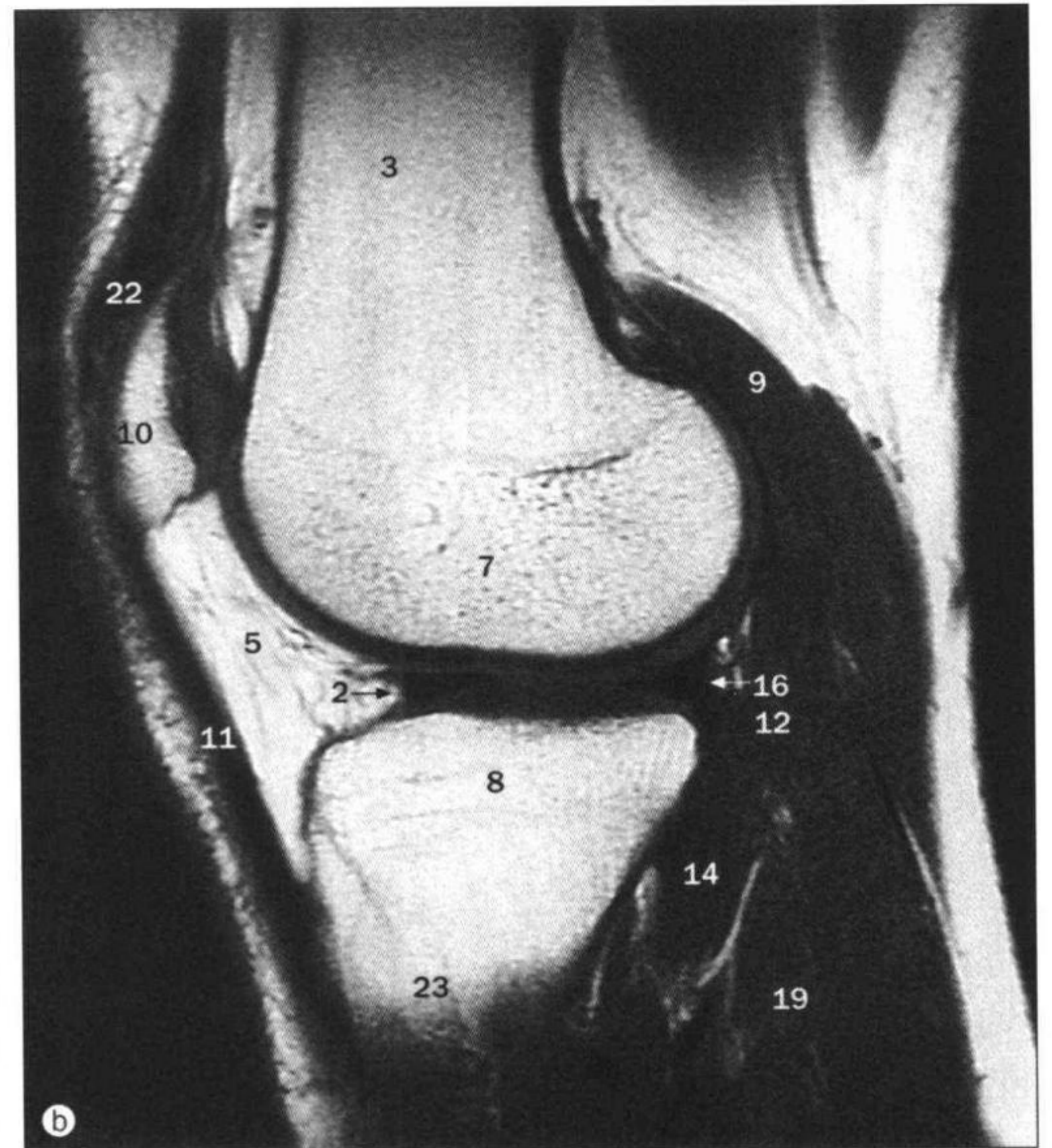
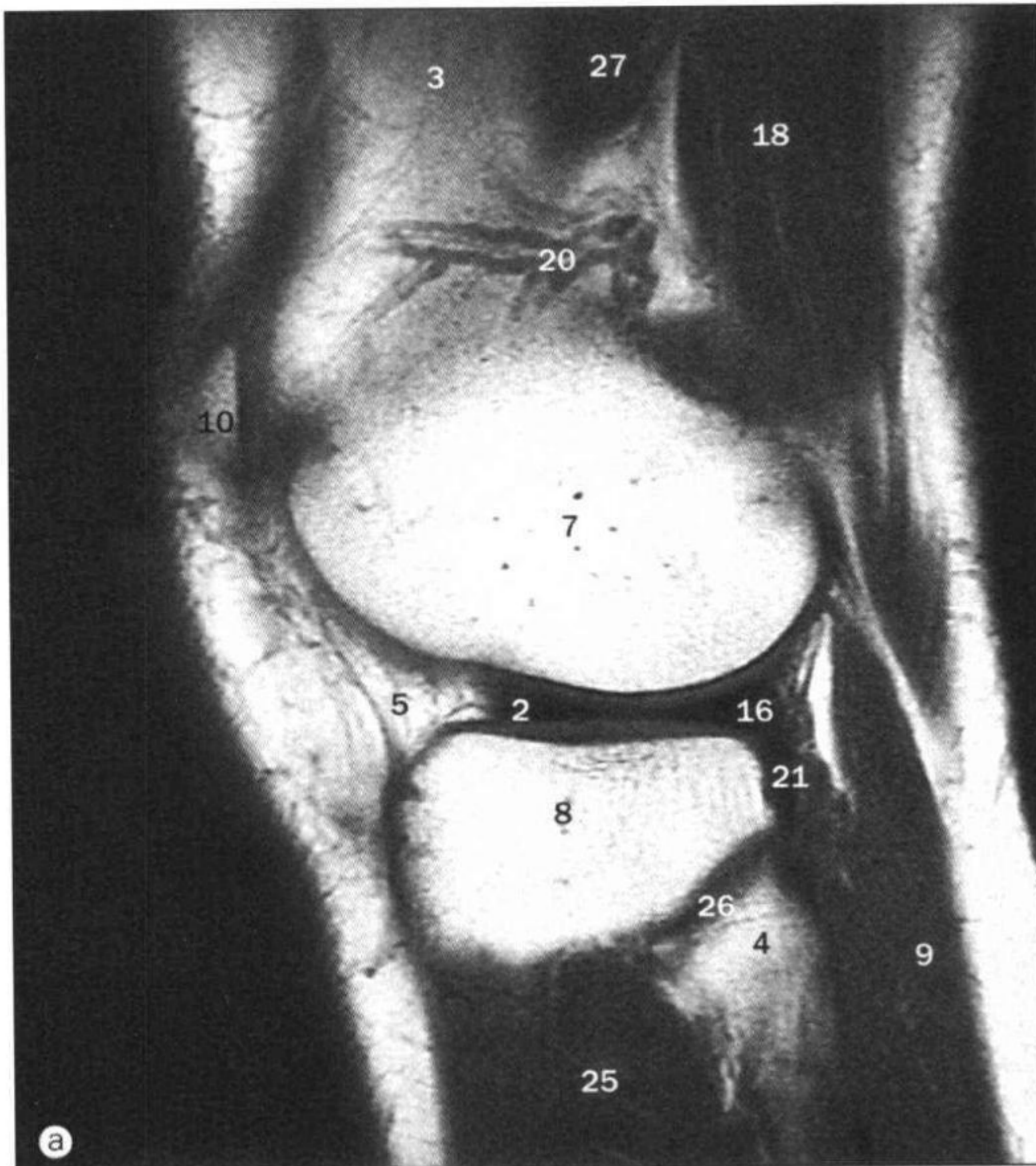


a~e. 膝, 轴位 MRI。



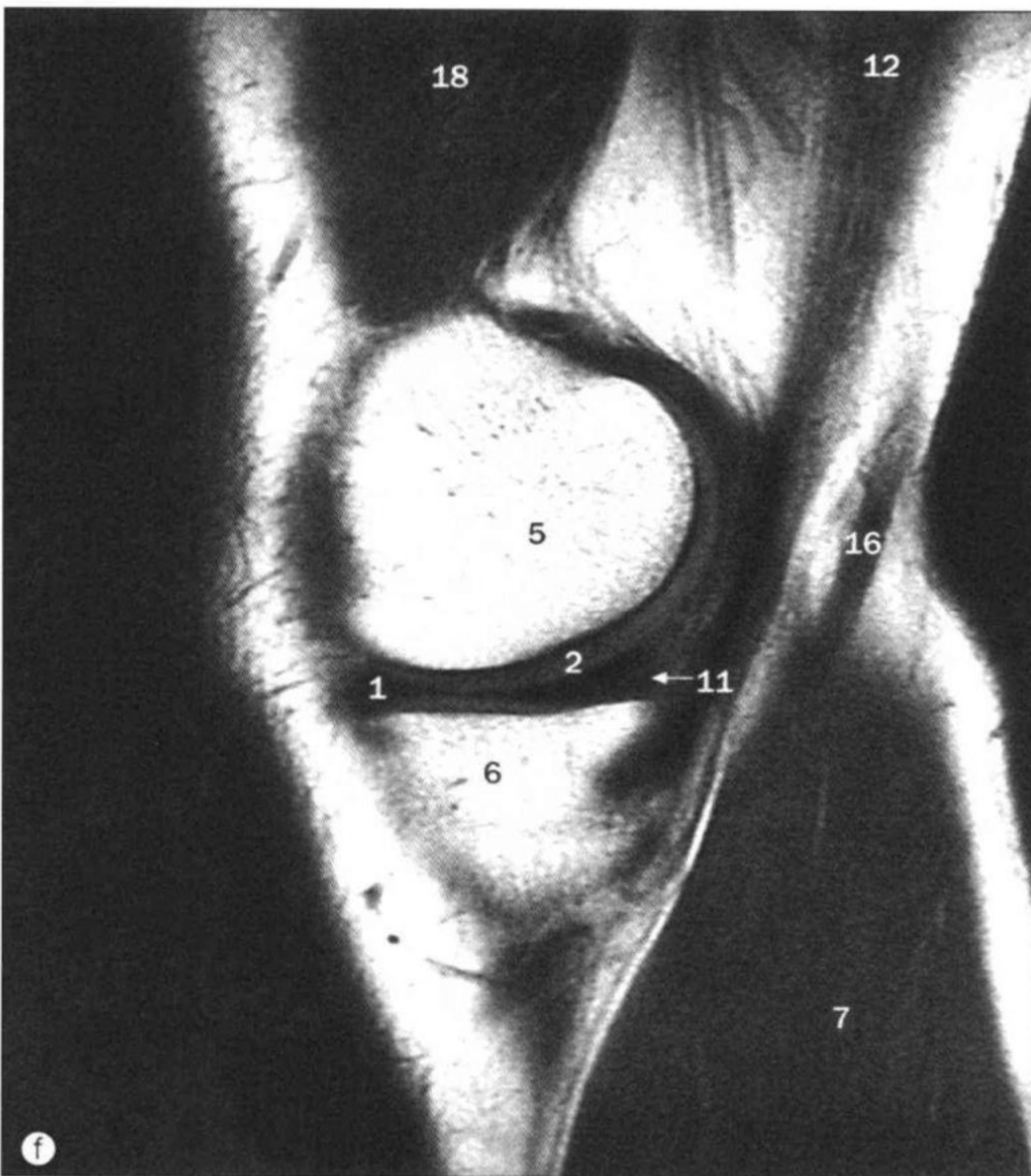
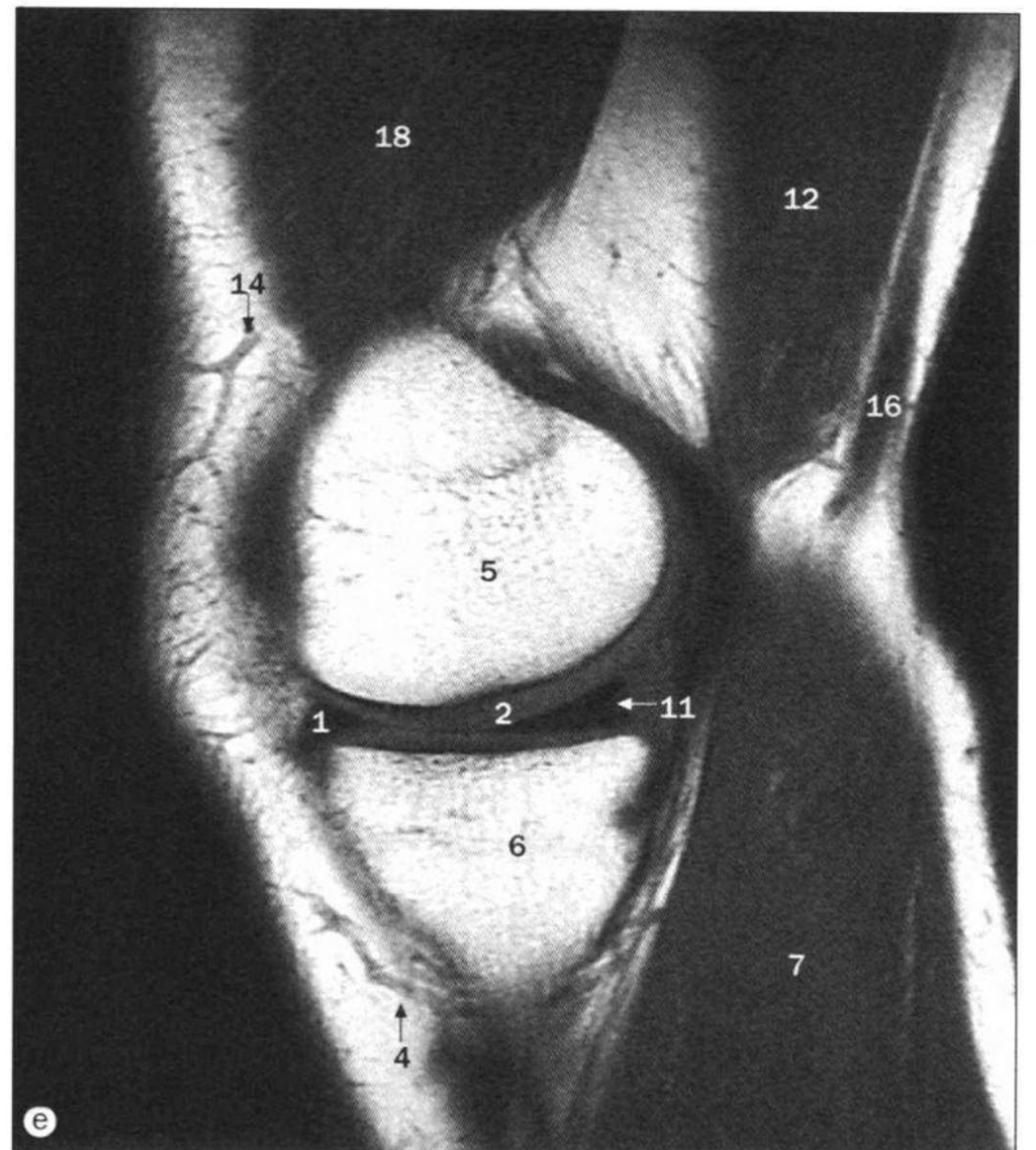
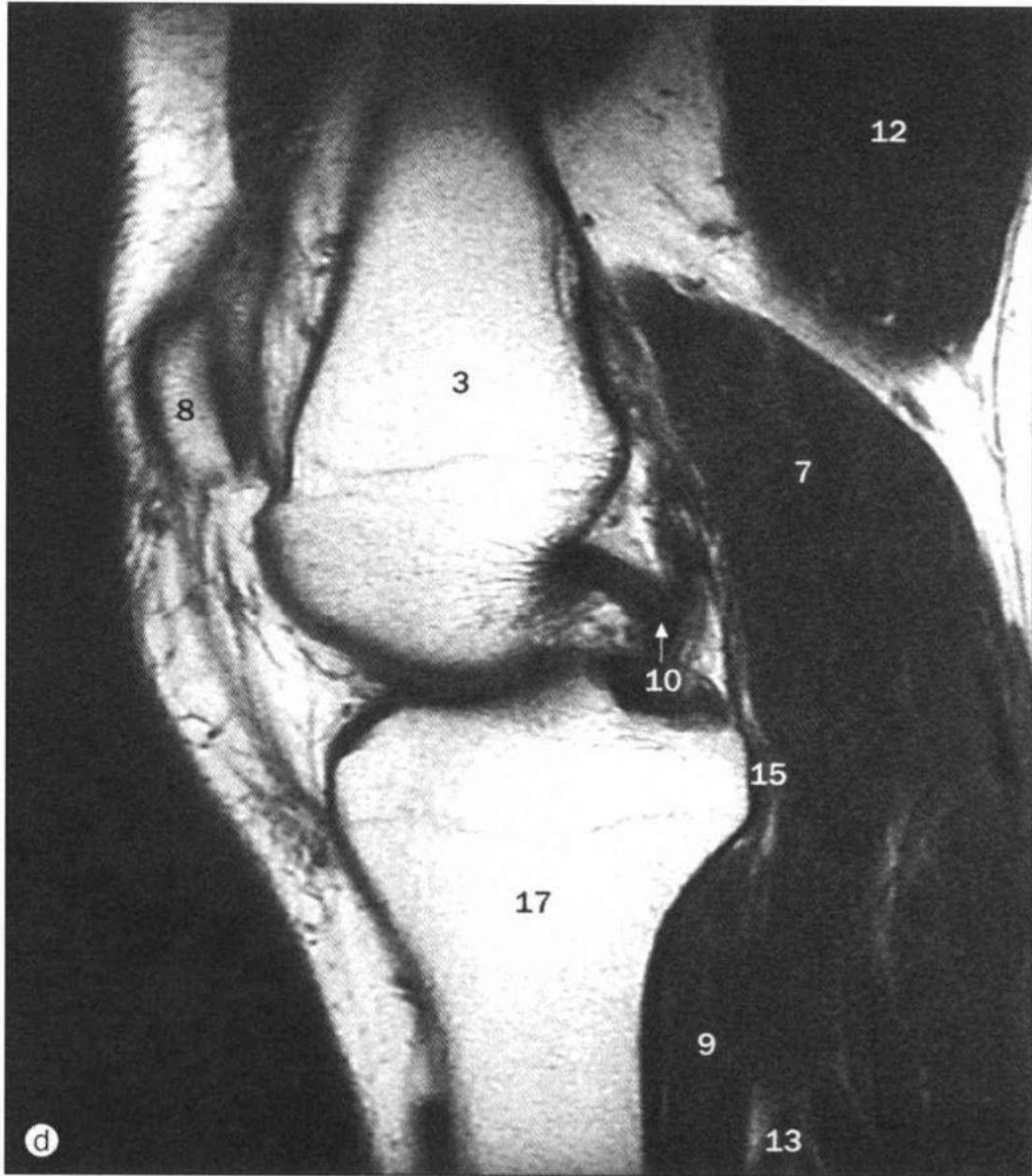
- | | |
|---------------------------------------|---|
| 1 前交叉韧带
anterior cruciate ligament | 10 髌下脂体
infrapatellar fat pad |
| 2 股二头肌
biceps femoris muscle | 11 外侧副韧带
lateral collateral ligament |
| 3 腓总神经
common peroneal nerve | 12 股骨外侧髁
lateral condyle of femur |
| 4 大腿深筋膜
deep fascia of the leg | 13 腓肠肌外侧头
lateral head of gastrocnemius muscle |
| 5 股骨
femur | 14 髌外侧支持带
lateral patellar retinaculum |
| 6 股薄肌
gracilis muscle | 15 外侧胫骨平台
lateral tibial plateau |
| 7 大隐静脉
great saphenous vein | 16 内侧副韧带
medial collateral ligament |
| 8 腓骨头
head of fibula | 17 股骨内髁
medial condyle of femur |
| 9 髂胫束
iliotibial tract | |

- | | | |
|--|---|---|
| 18 腓肠肌内侧头
medial head of gastrocnemius muscle | 25 腘静脉
popliteal vein | 34 半膜肌腱
tendon of semimembranosus muscle |
| 19 髌内侧支持带
medial patellar retinaculum | 26 腘肌
popliteus muscle | 35 半腱肌腱
tendon of semitendinosus muscle |
| 20 内侧胫骨平台
medial tibial plateau | 27 后交叉韧带
posterior cruciate ligament | 36 胫骨
tibia |
| 21 髌骨
patella | 28 缝匠肌
sartorius muscle | 37 胫神经
tibial nerve |
| 22 髌韧带
patellar tendon | 29 半膜肌
semimembranosus muscle | 38 胫骨结节
tibial tubercle |
| 23 跖肌
plantaris muscle | 30 小隐静脉
small saphenous vein | 39 股外侧肌
vastus lateralis muscle |
| 24 腘动脉
popliteal artery | 31 股薄肌腱
tendon of gracilis muscle | 40 股内侧肌
vastus medialis muscle |
| | 32 股薄肌腱
tendon of gracilis muscle | |
| | 33 缝匠肌腱
tendon of sartorius muscle | |



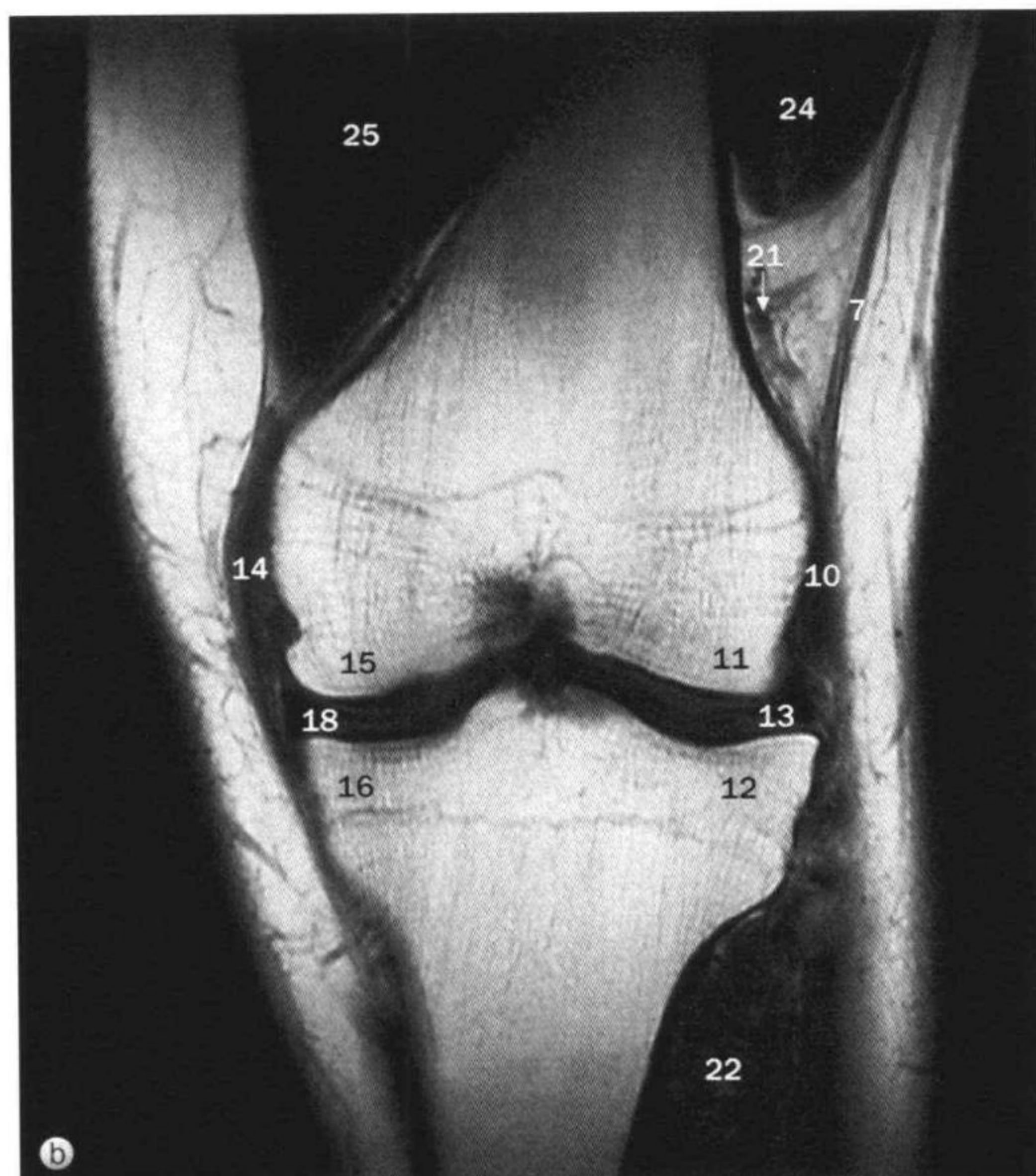
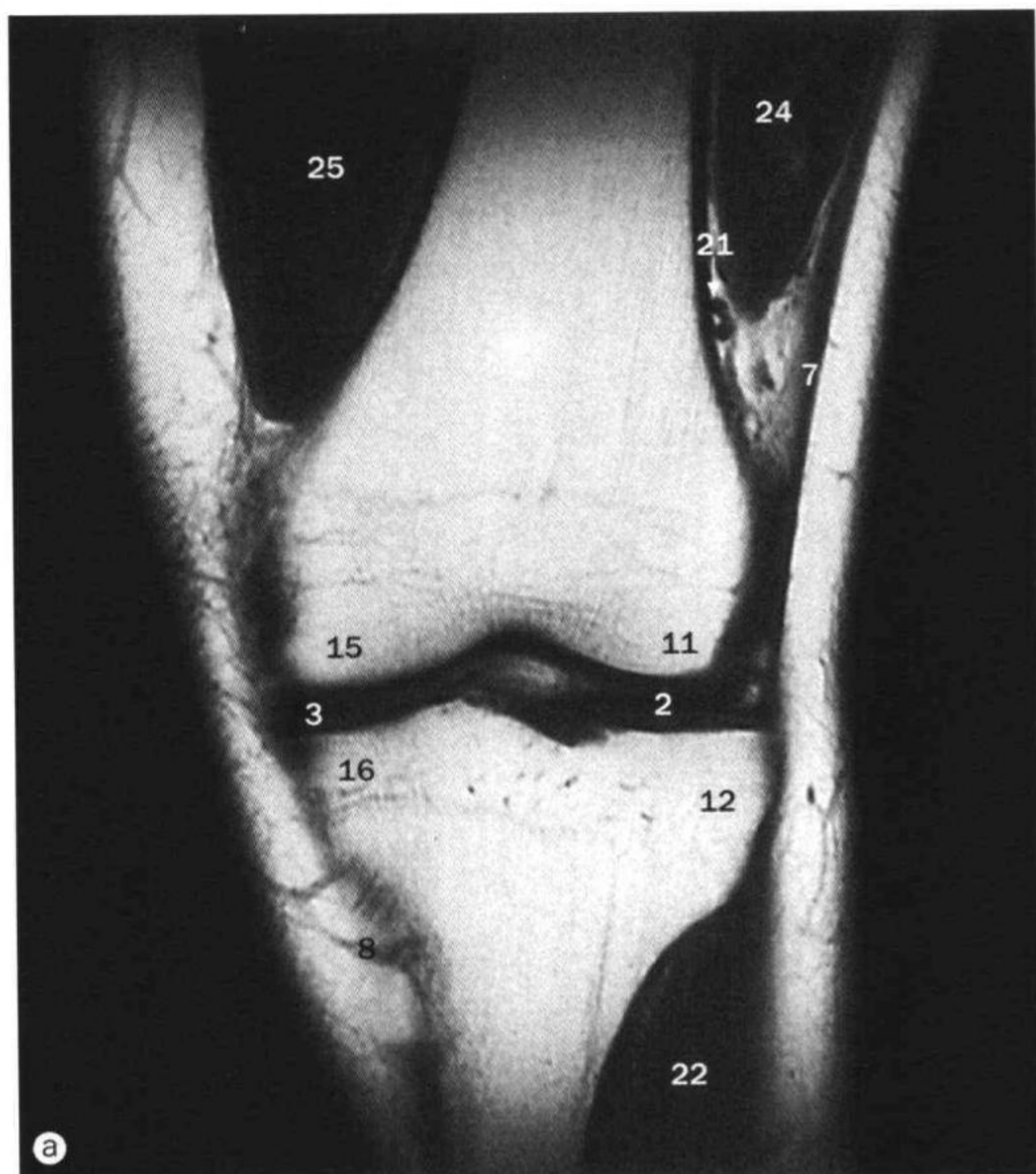
a~c. 膝, 矢状位 MRI。

- 1 前交叉韧带 anterior cruciate ligament
- 2 外侧半月板前角 anterior horn of lateral meniscus
- 3 股骨 femur
- 4 腓骨头 head of fibula
- 5 髌下脂体 infrapatellar fat pad
- 6 髌间窝 intercondylar notch
- 7 股骨外侧髌 lateral condyle of femur
- 8 胫骨外侧髌 lateral condyle of tibia
- 9 腓肠肌外侧头 lateral head of gastrocnemius muscle
- 10 髌骨 patella
- 11 髌韧带 patellar tendon
- 12 跖肌 plantaris muscle
- 13 腘动静脉 popliteal artery and vein
- 14 腘肌 popliteus muscle
- 15 后交叉韧带 posterior cruciate ligament
- 16 外侧半月板后角 posterior horn of lateral meniscus
- 17 板股后韧带 posterior meniscofemoral ligament
- 18 股二头肌短头 short head of biceps femoris muscle
- 19 比目鱼肌 soleus muscle
- 20 膝下外侧动脉 superior lateral genicular artery
- 21 腘肌腱 tendon of popliteus muscle
- 22 股四头肌腱 tendon of quadriceps muscle
- 23 胫骨 tibia
- 24 胫骨结节 tibial tubercle
- 25 胫骨前肌 tibialis anterior muscle
- 26 胫腓关节 tibiofibular joint
- 27 股外侧肌 vastus lateralis muscle



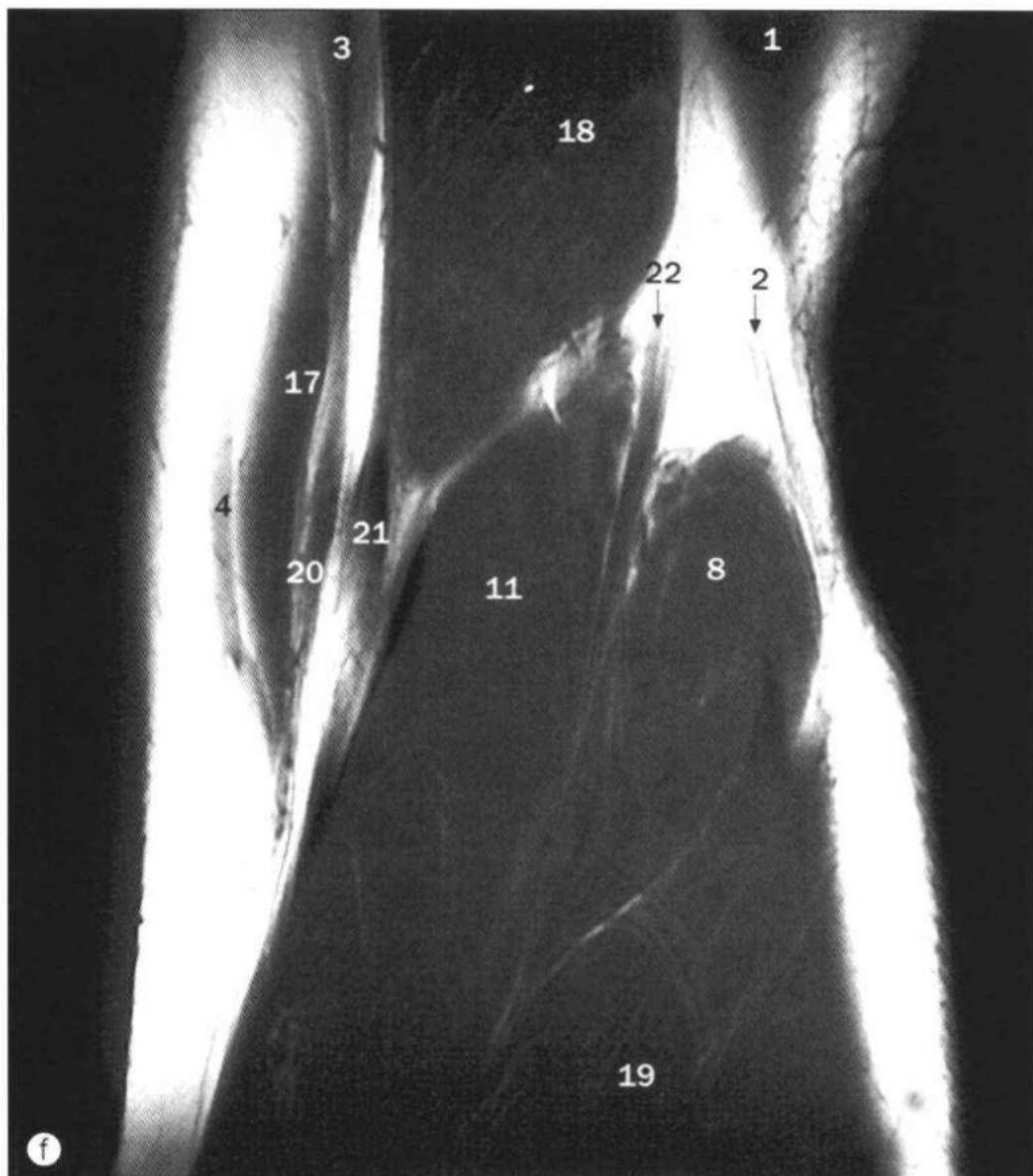
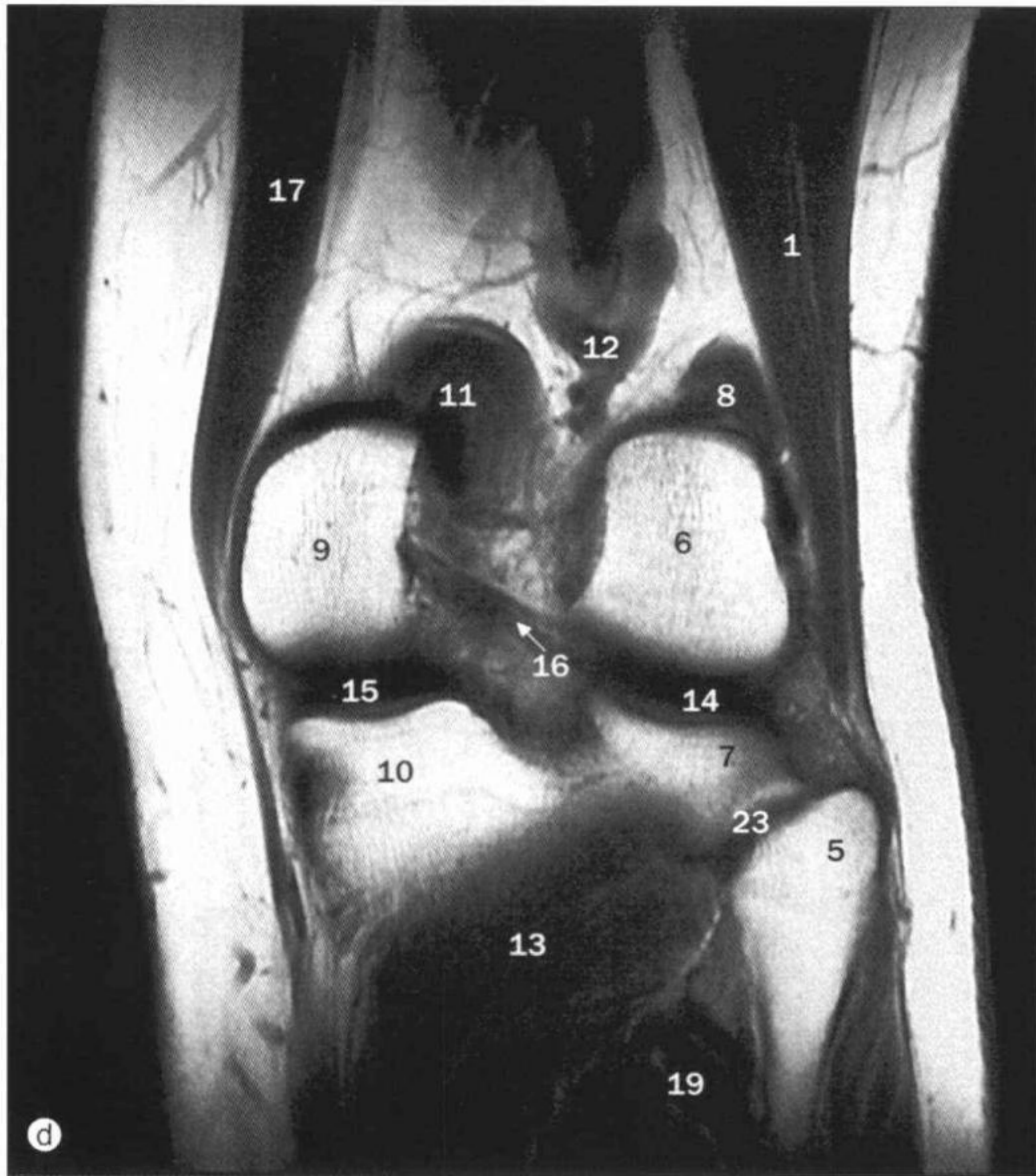
d~f. 膝，矢状位 MRI。

- 1 内侧半月板前角 anterior horn of medial meniscus
- 2 关节软骨 articular cartilage
- 3 股骨 femur
- 4 膝下内侧动脉 inferior medial genicular artery
- 5 股骨内侧髁 medial condyle of femur
- 6 胫骨内侧髁 medial condyle of tibia
- 7 腓肠肌内侧头 medial head of gastrocnemius muscle
- 8 髌骨 patella
- 9 腓肌 popliteus muscle
- 10 后交叉韧带 posterior cruciate ligament
- 11 内侧半月板后角 posterior horn of medial meniscus
- 12 半膜肌 semimembranosus muscle
- 13 比目鱼肌 soleus muscle
- 14 膝下内侧动脉 superior medial genicular artery
- 15 腓肌腱 tendon of popliteus muscle
- 16 半腱肌腱 tendon of semitendinosus muscle
- 17 胫骨 tibia
- 18 股内侧肌 vastus medialis muscle



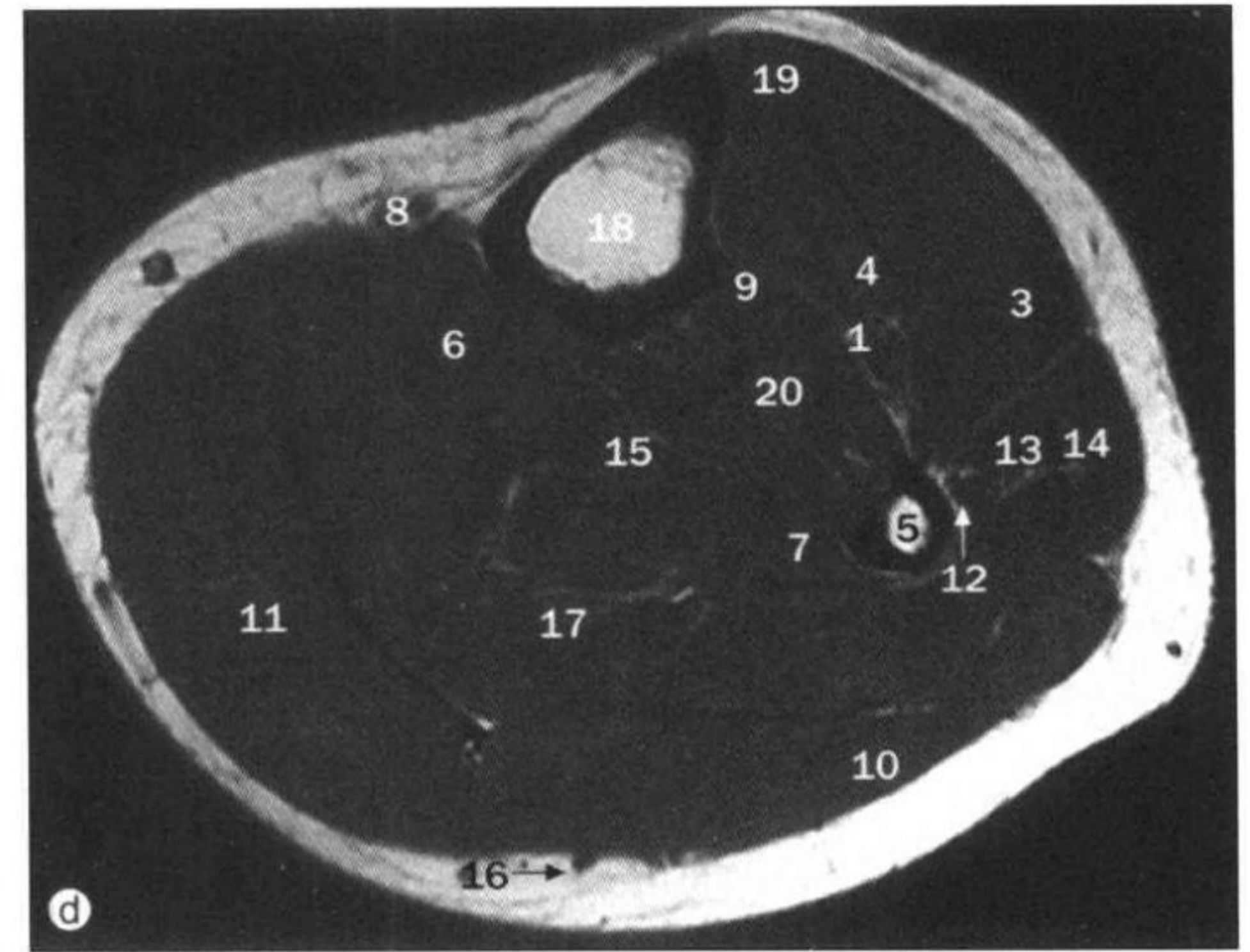
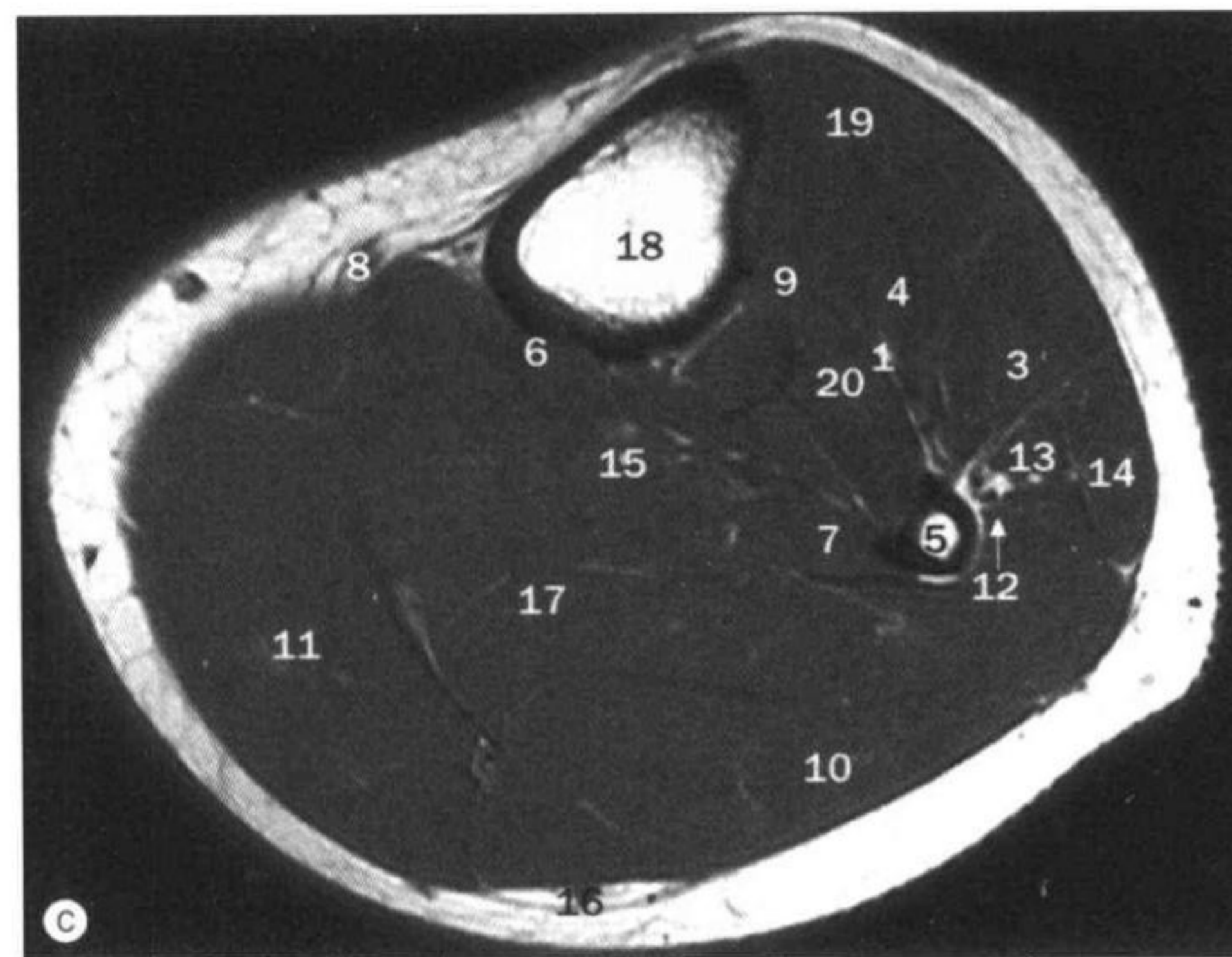
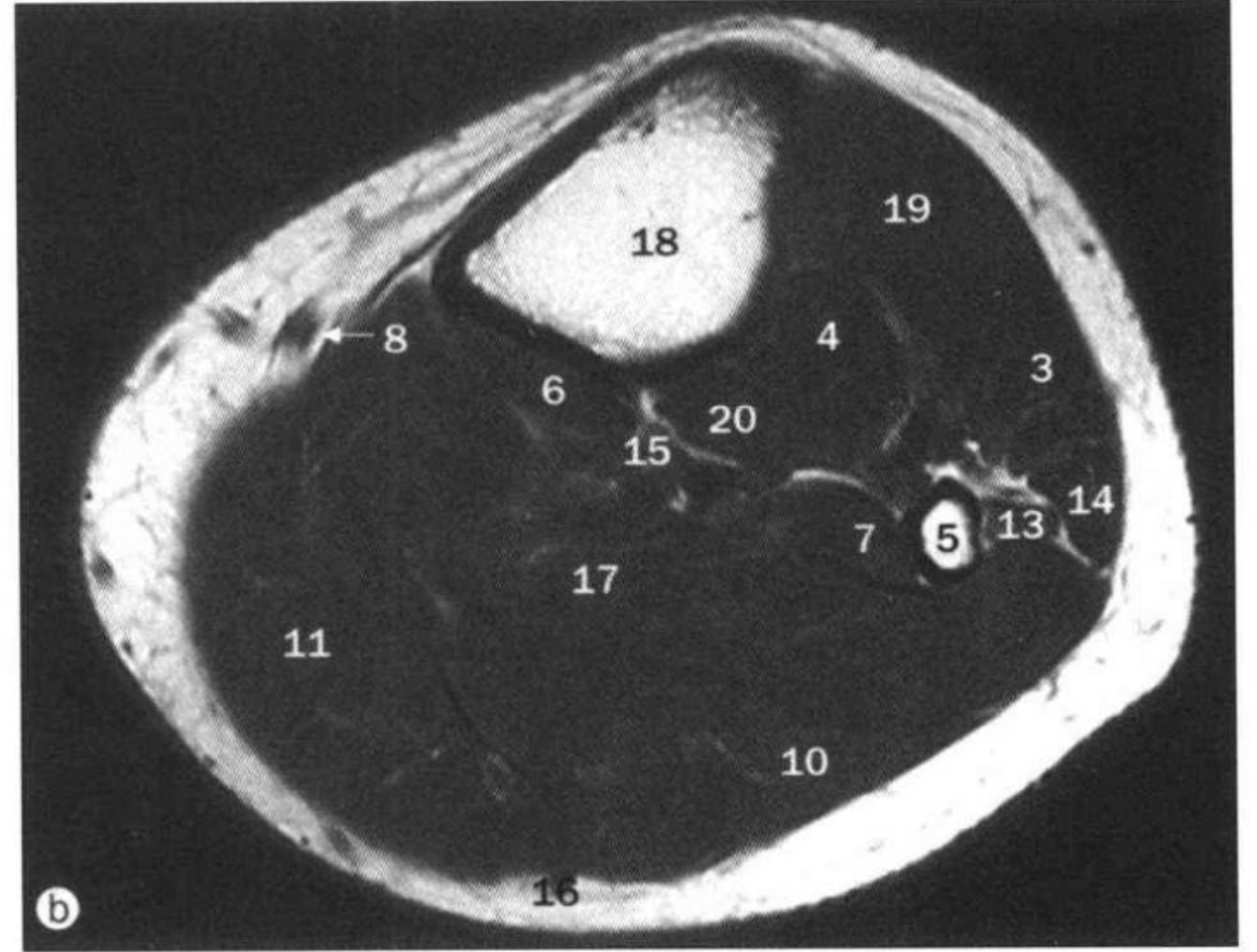
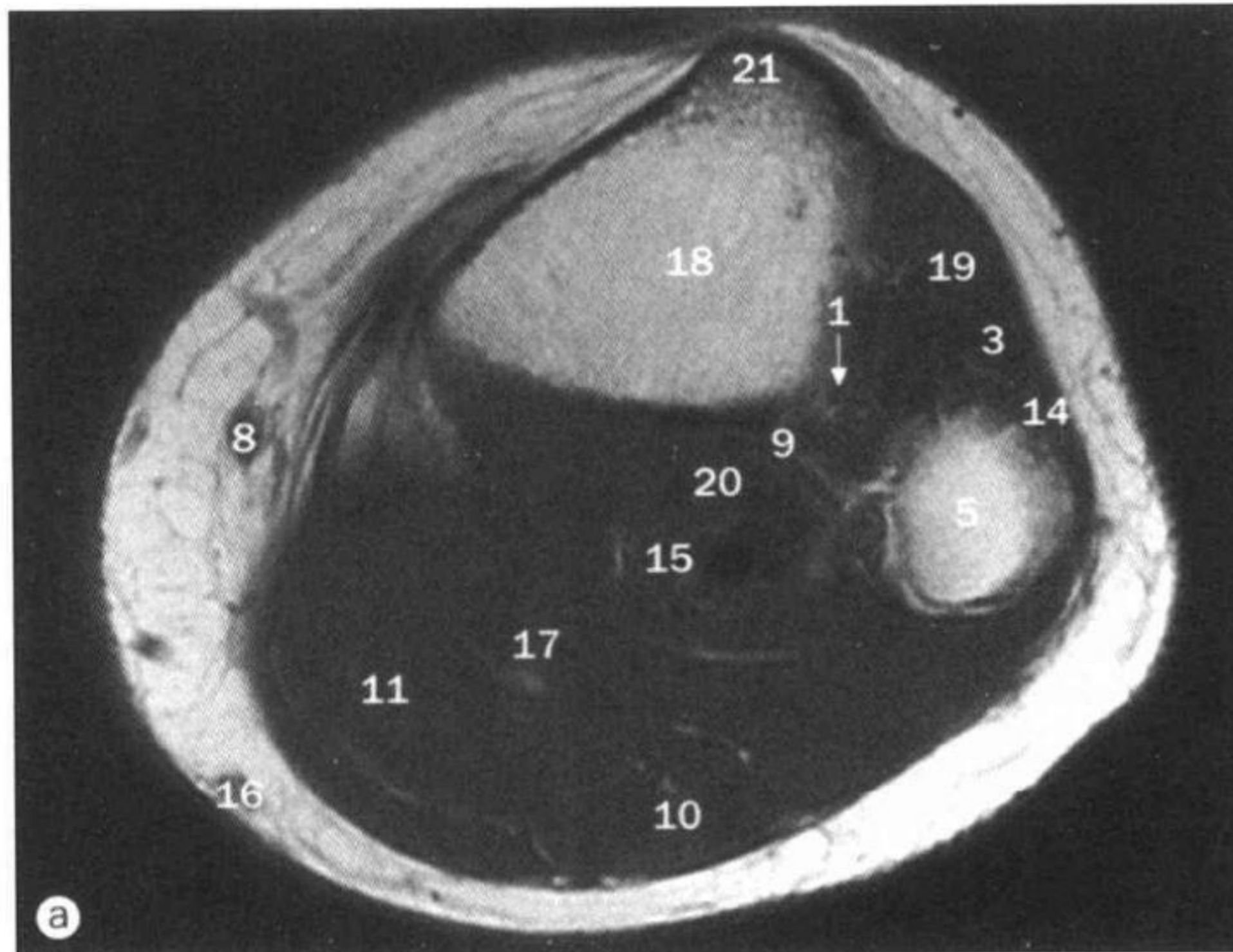
a~c. 膝，冠状位 MRI

- 1 前交叉韧带 anterior cruciate ligament
- 2 外侧半月板前角 anterior horn of lateral meniscus
- 3 内侧半月板前角 anterior horn of medial meniscus
- 4 股二头肌 biceps femoris muscle
- 5 大隐静脉 great (long) saphenous vein
- 6 腓骨头 head of fibula
- 7 髂胫束 iliotibial tract
- 8 膝下内侧动脉 inferior medial genicular artery
- 9 髁间窝 intercondylar notch
- 10 外侧副韧带 lateral collateral ligament
- 11 股骨外侧髁 lateral condyle of femur
- 12 胫骨外侧髁 lateral condyle of tibia
- 13 外侧半月板 lateral meniscus
- 14 内侧副韧带 medial collateral ligament
- 15 股骨内侧髁 medial condyle of femur
- 16 胫骨内侧髁 medial condyle of tibia
- 17 腓肠肌内侧头 medial head of gastrocnemius muscle
- 18 内侧半月板 medial meniscus
- 19 后交叉韧带 posterior cruciate ligament
- 20 缝匠肌 sartorius muscle
- 21 膝下外侧动脉 superior lateral genicular artery
- 22 胫前肌 tibialis anterior muscle
- 23 胫腓关节 tibiofibular joint
- 24 股外侧肌 vastus lateralis muscle
- 25 股内侧肌 vastus medialis muscle



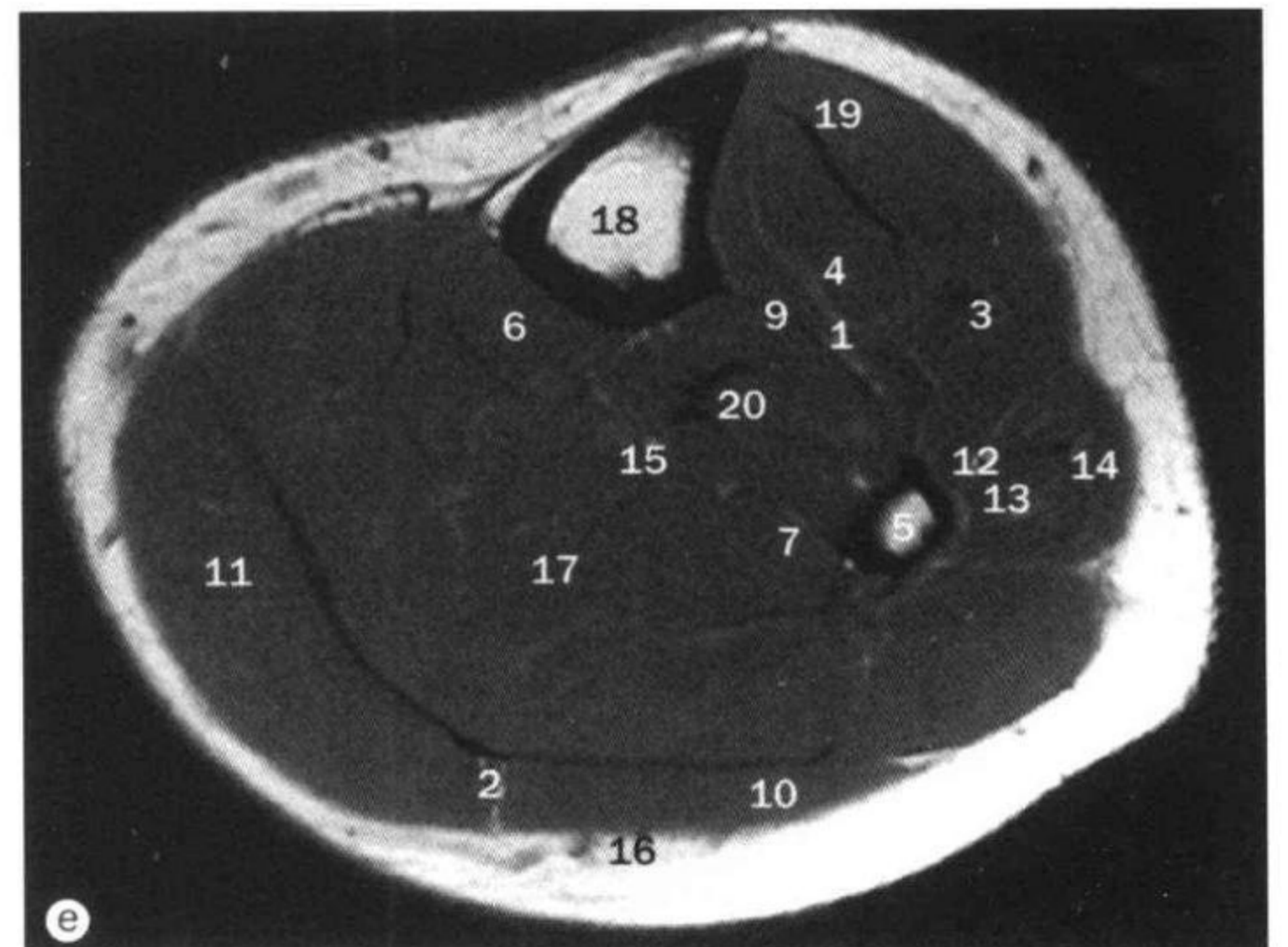
d~f. 膝，冠状位 MRI。

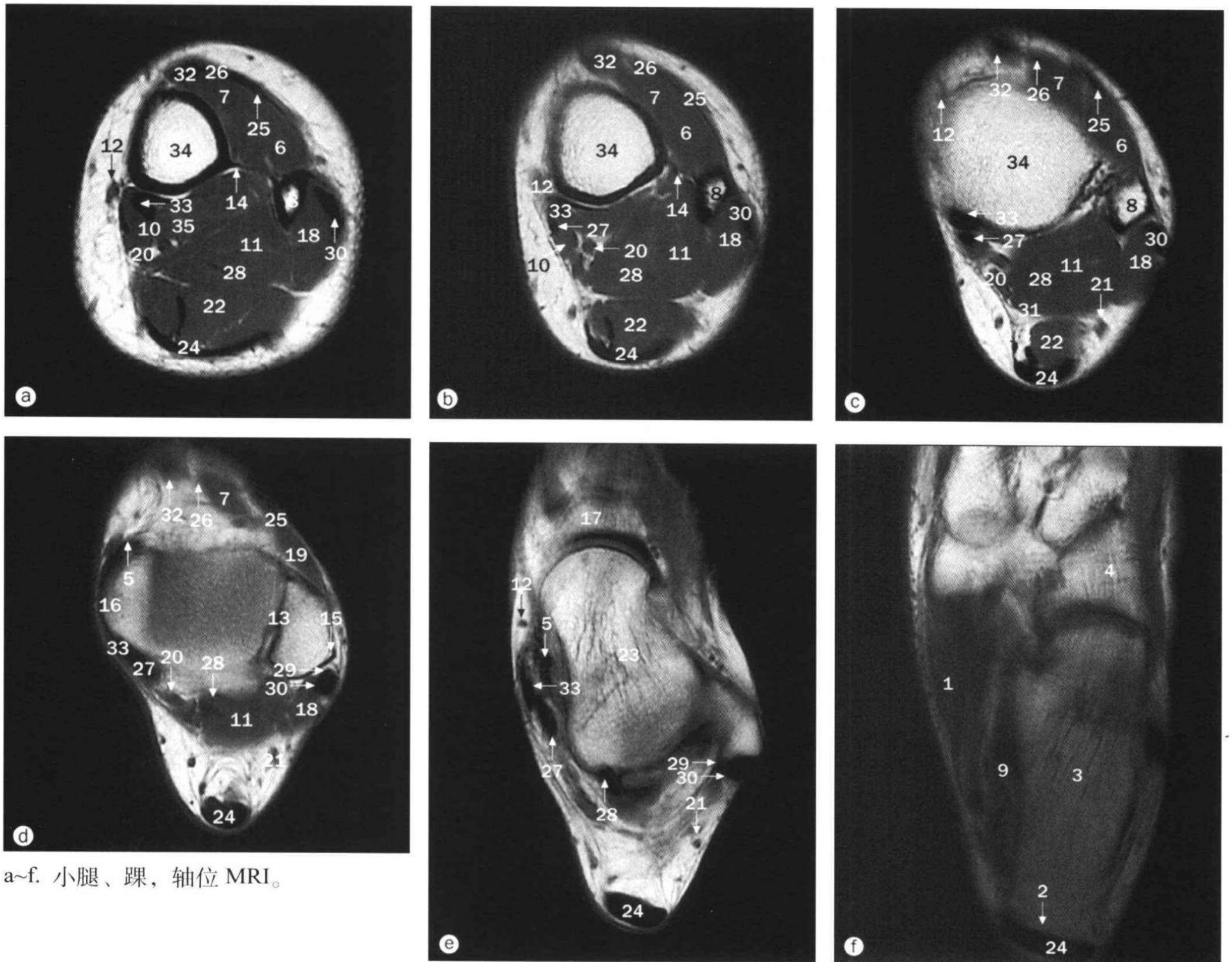
- 1 股二头肌 biceps femoris muscle
- 2 腓总神经 common peroneal nerve
- 3 股薄肌 gracilis muscle
- 4 大隐静脉 great (long) saphenous vein
- 5 腓骨头 head of fibula
- 6 股骨外侧髁 lateral condyle of femur
- 7 胫骨外侧髁 lateral condyle of tibia
- 8 腓肠肌外侧头 lateral head of gastrocnemius muscle
- 9 股骨内侧髁 medial condyle of femur
- 10 胫骨内侧髁 medial condyle of tibia
- 11 腓肠肌内侧头 medial head of gastrocnemius muscle
- 12 腘动静脉 popliteal artery and vein
- 13 腘肌 popliteus muscle
- 14 外侧半月板后角 posterior horn of lateral meniscus
- 15 内侧半月板后角 posterior horn of medial meniscus
- 16 板股后韧带 posterior meniscofemoral ligament
- 17 缝匠肌 sartorius muscle
- 18 半膜肌 semimembranosus muscle
- 19 比目鱼肌 soleus muscle
- 20 股薄肌腱 tendon of gracilis muscle
- 21 半膜肌腱 tendon of semitendinosus muscle
- 22 胫神经 tibial nerve
- 23 胫腓关节 tibiofibular joint



a~e. 腓肠, 轴位 MRI

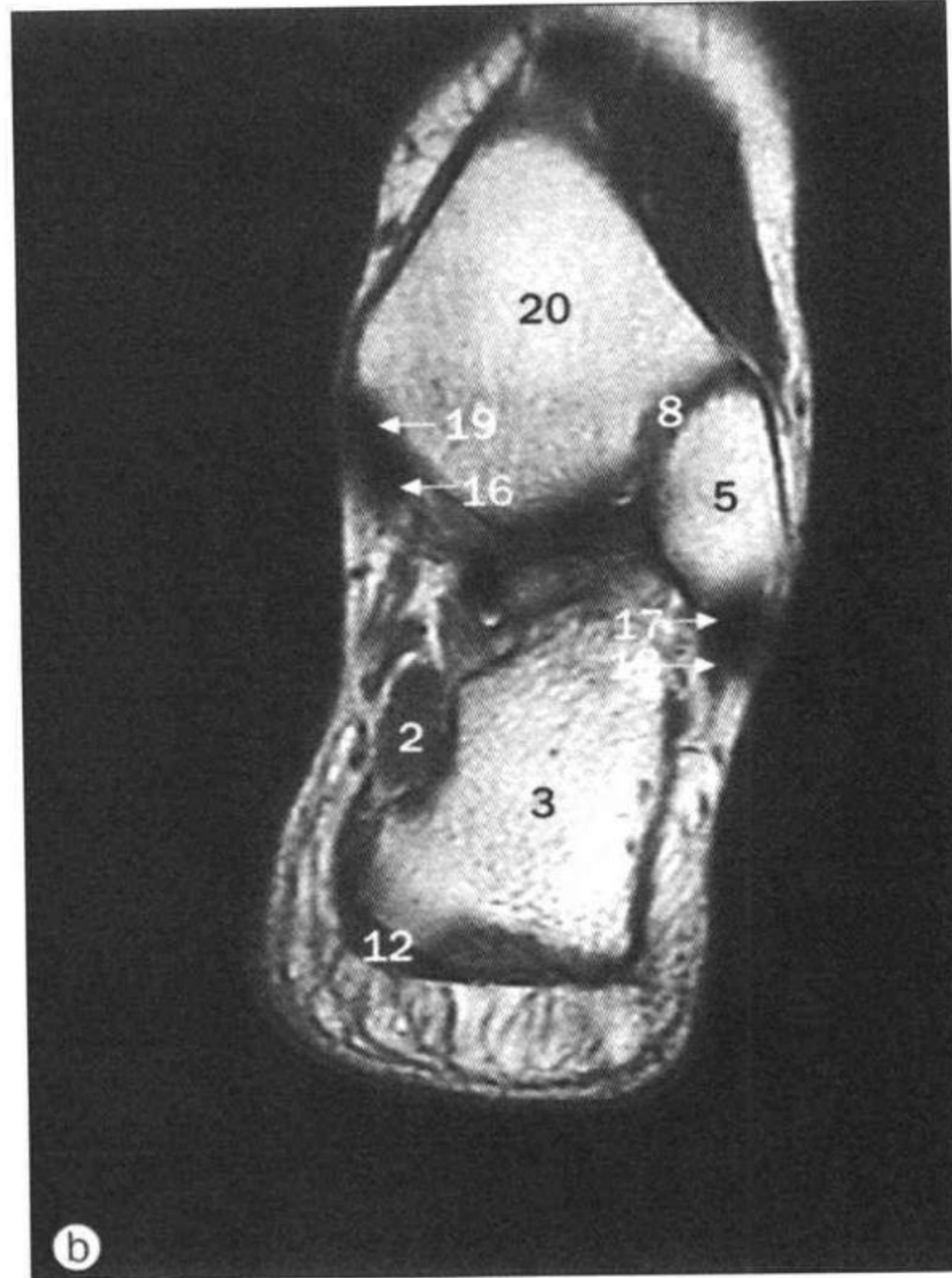
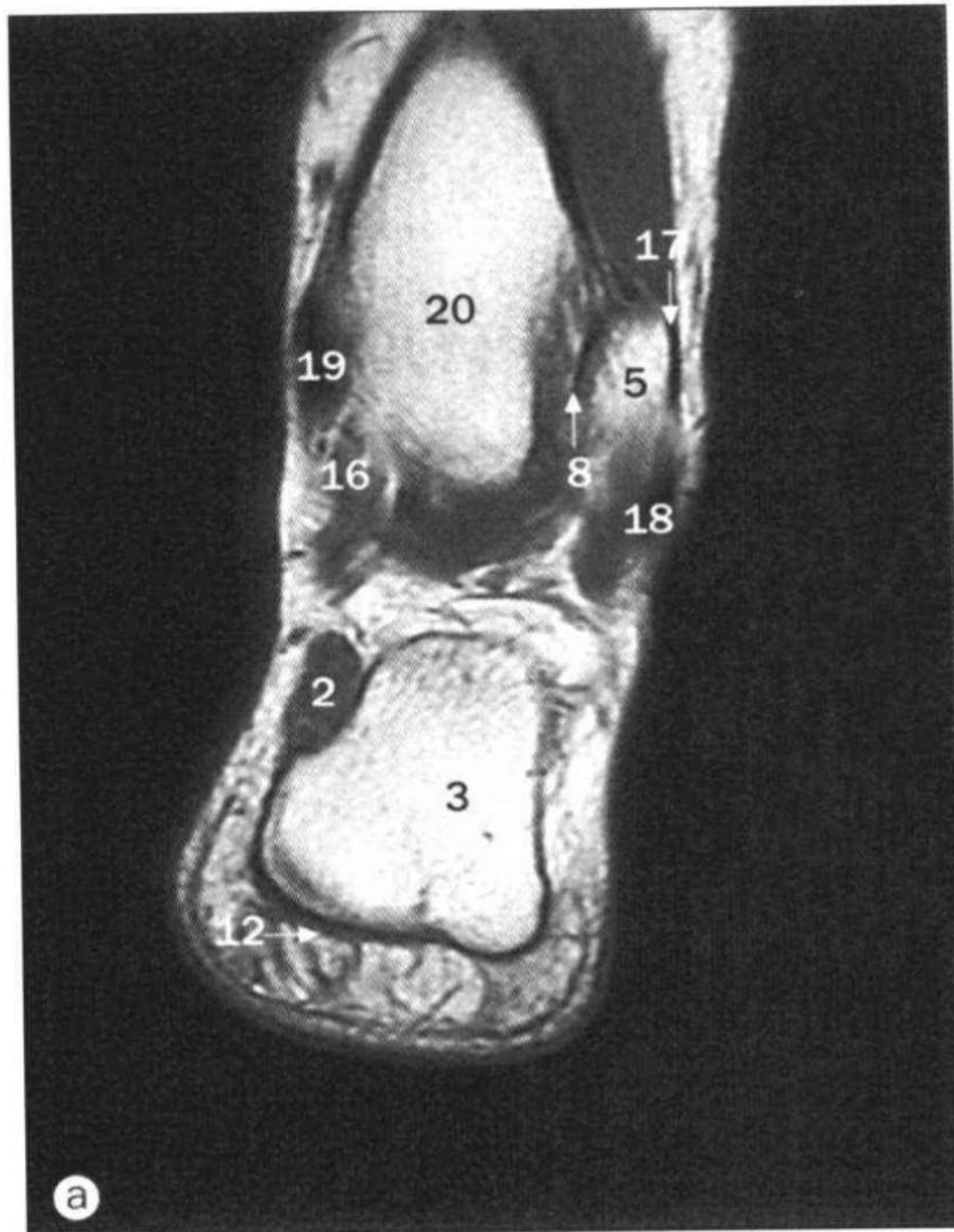
- 1 胫前动脉 anterior tibial artery
- 2 腓肠肌腱膜 aponeurosis of gastrocnemius muscle
- 3 趾长伸肌 extensor digitorum longus muscle
- 4 拇长伸肌 extensor hallucis longus muscle
- 5 腓骨 fibula
- 6 趾长屈肌 flexor digitorum longus muscle
- 7 拇长屈肌 flexor hallucis longus muscle
- 8 大隐静脉 great (long) saphenous vein
- 9 骨间膜 interosseous membrane
- 10 腓肠肌外侧头 lateral head of gastrocnemius muscle
- 11 腓肠肌内侧头 medial head of gastrocnemius muscle
- 12 腓动脉 peroneal artery
- 13 腓骨短肌 peroneus brevis muscle
- 14 腓骨长肌 peroneus longus muscle
- 15 胫后动脉 posterior tibial artery
- 16 小隐静脉 small saphenous vein
- 17 比目鱼肌 soleus muscle
- 18 胫骨 tibia
- 19 胫骨前肌 tibialis anterior muscle
- 20 胫骨后肌 tibialis posterior muscle
- 21 胫骨粗隆 tuberosity of tibia



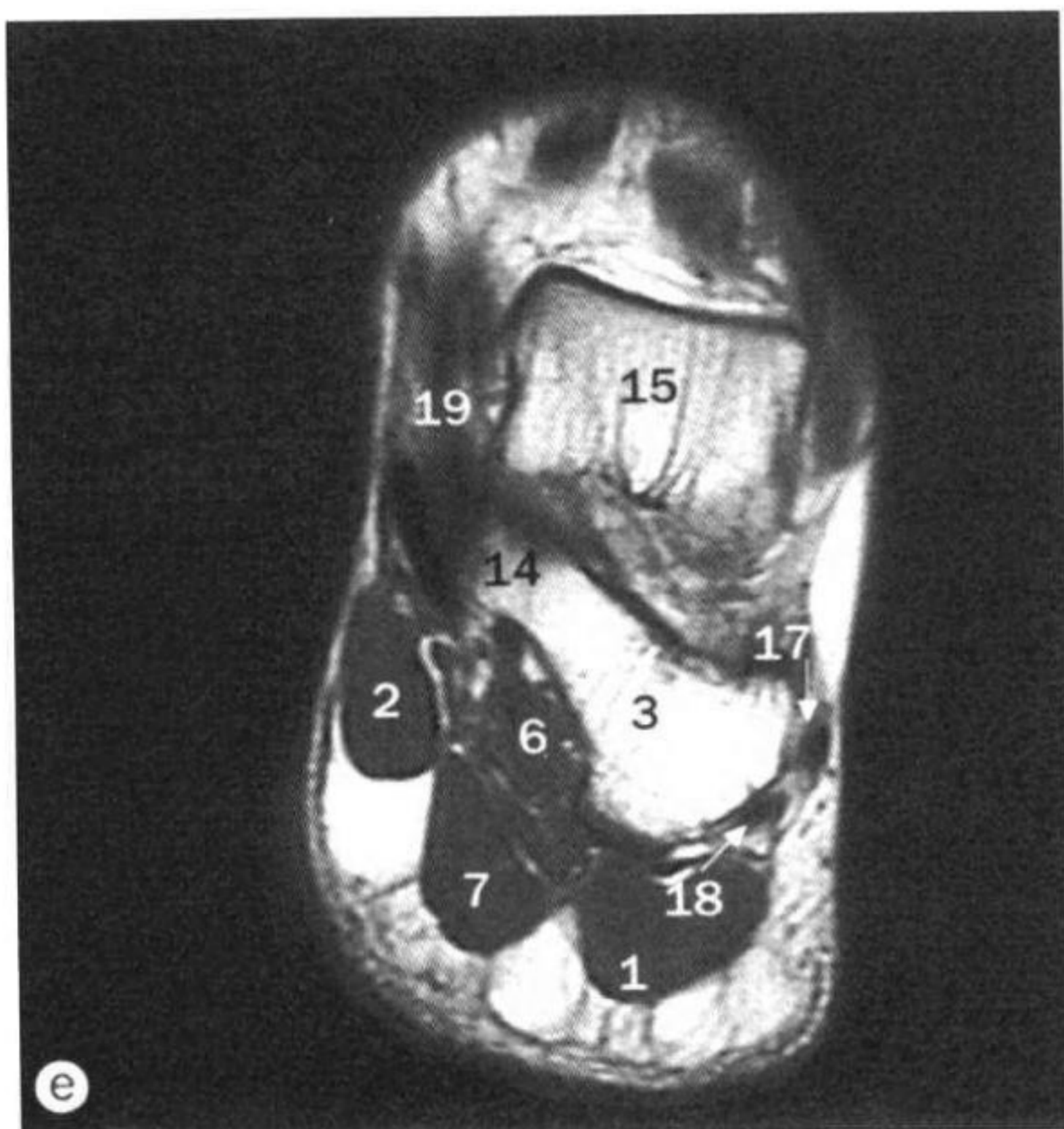
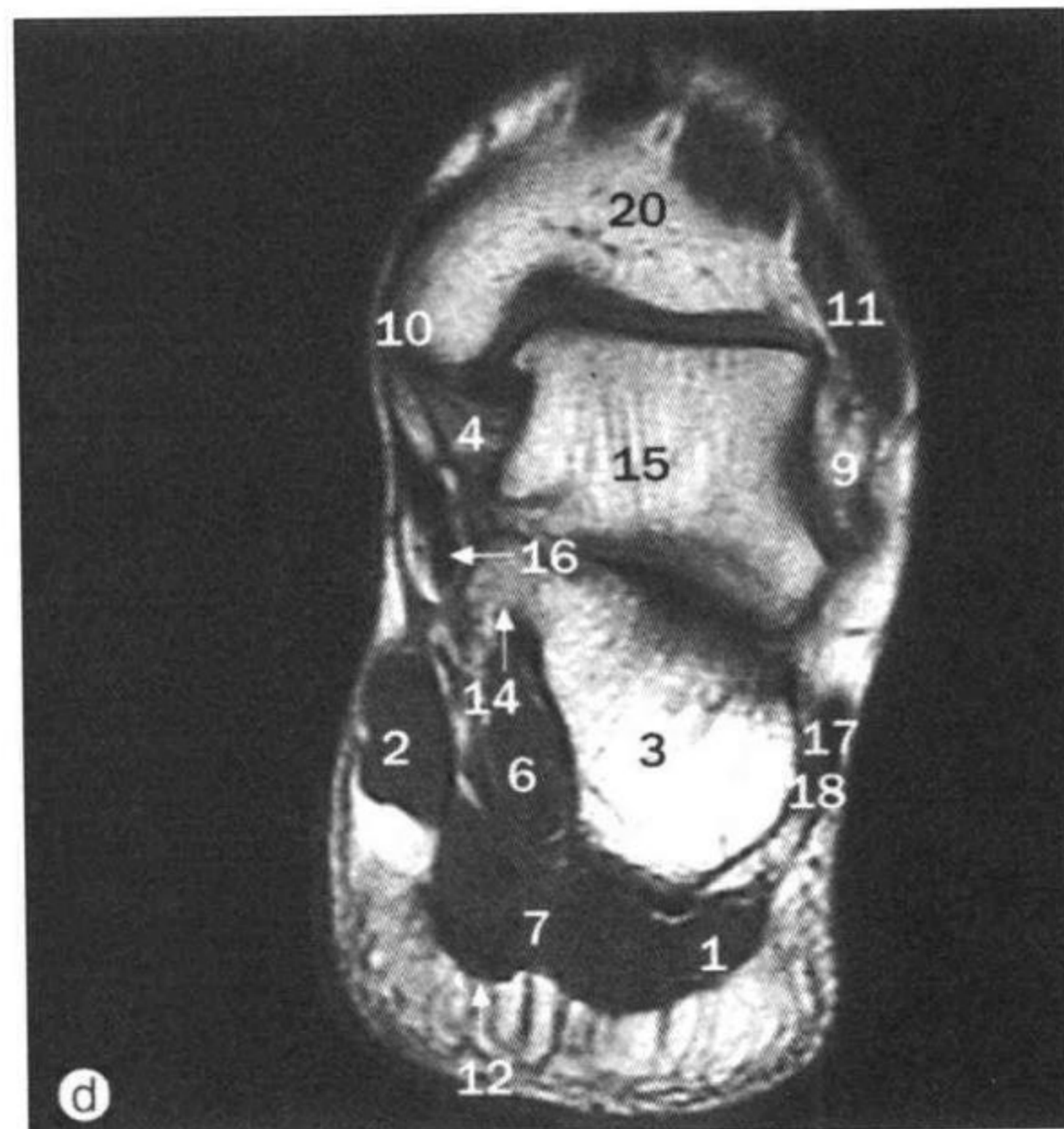
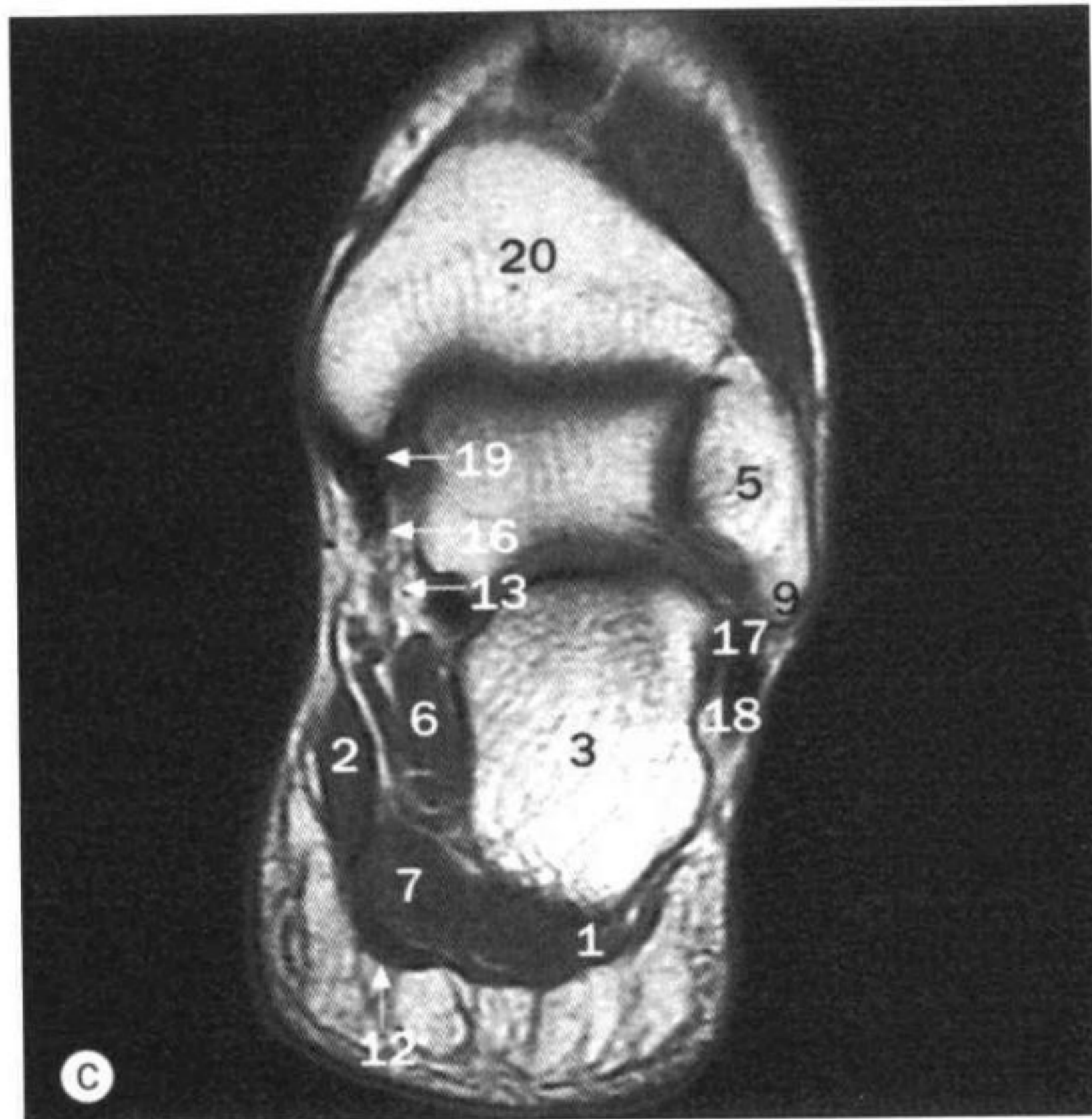


a~f. 小腿、踝，轴位 MRI。

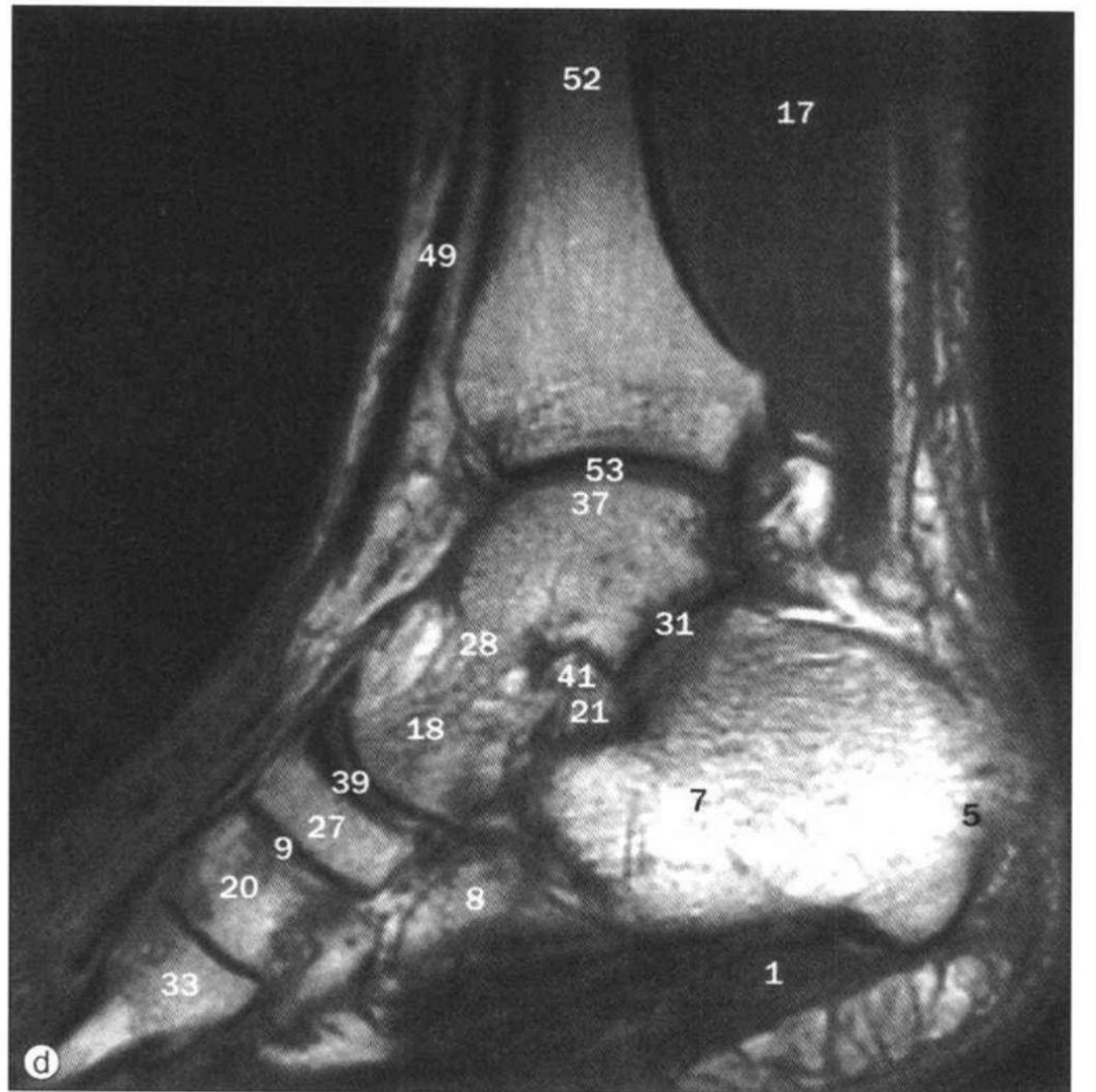
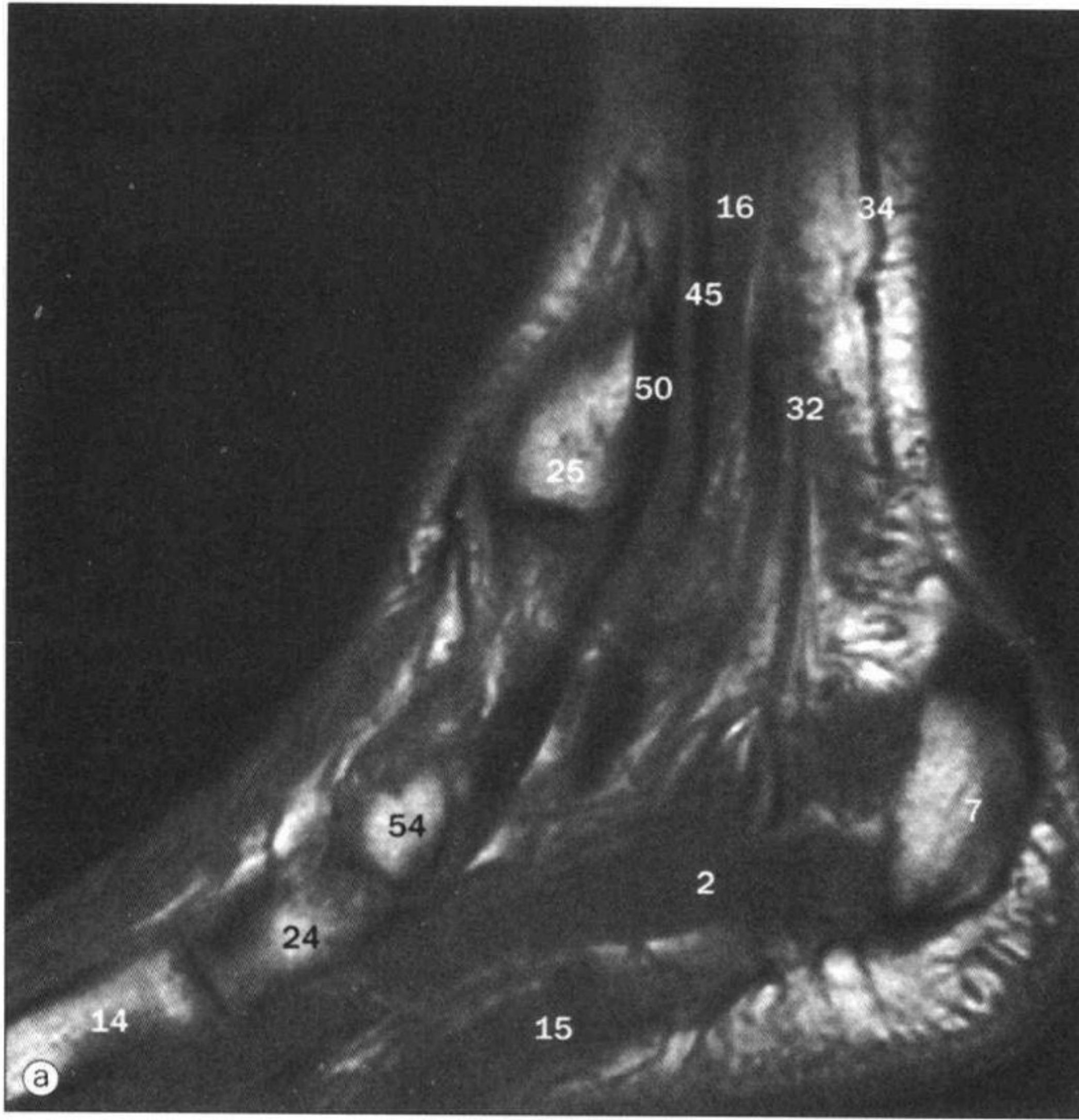
- | | |
|--|--|
| 1 拇展肌 abductor hallucis muscle | 19 第3腓骨肌 peroneus tertius muscle |
| 2 跟骨结节 calcaneal tuberosity | 20 胫后动静脉 posterior tibial artery and vein |
| 3 跟骨 calcaneus | 21 小隐静脉 small saphenous vein |
| 4 骰骨 cuboid | 22 比目鱼肌 soleus muscle |
| 5 三角韧带 deltoid ligament | 23 距骨 talus |
| 6 趾伸肌 extensor digitorum muscle | 24 跟腱 tendo calcaneus (Achilles' tendon) |
| 8 拇长伸肌 extensor hallucis longus muscle | 25 趾展肌腱 tendon of extensor digitorum muscle |
| 8 腓骨 fibula | 26 拇长伸肌腱 tendon of extensor hallucis longus muscle |
| 9 足底方肌 flexor accessorius muscle | 27 趾长屈肌腱 tendon of flexor digitorum longus muscle |
| 10 趾长屈肌 flexor digitorum longus muscle | 28 拇长屈肌腱 tendon of flexor hallucis longus muscle |
| 11 拇长屈肌 flexor hallucis longus muscle | 29 腓骨短肌腱 tendon of peroneus brevis muscle |
| 12 大隐静脉 great (long) saphenous vein | 30 腓骨长肌腱 tendon of peroneus longus muscle |
| 13 下胫腓关节 inferior tibiofibular joint | 31 跖肌肌腱 tendon of plantaris muscle |
| 14 骨间膜 interosseous membrane | 32 胫骨前肌肌腱 tendon of tibialis anterior muscle |
| 15 外踝 lateral malleolus | 33 胫骨后肌肌腱 tendon of tibialis posterior muscle |
| 16 内踝 medial malleolus | 34 胫骨 tibia |
| 17 足舟骨 navicular | 35 胫骨后肌 tibialis posterior muscle |
| 18 腓骨短肌 peroneus brevis muscle | |



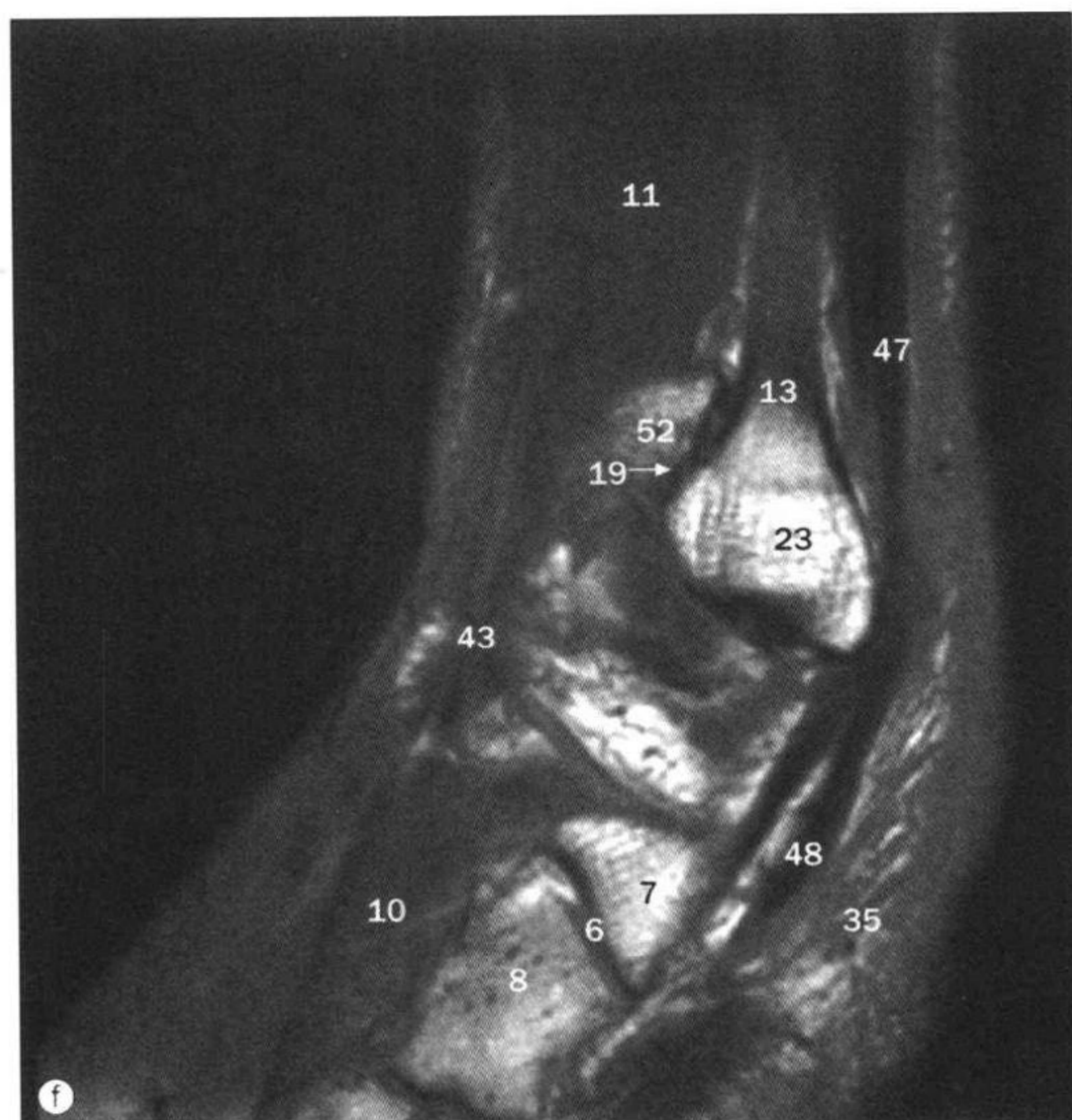
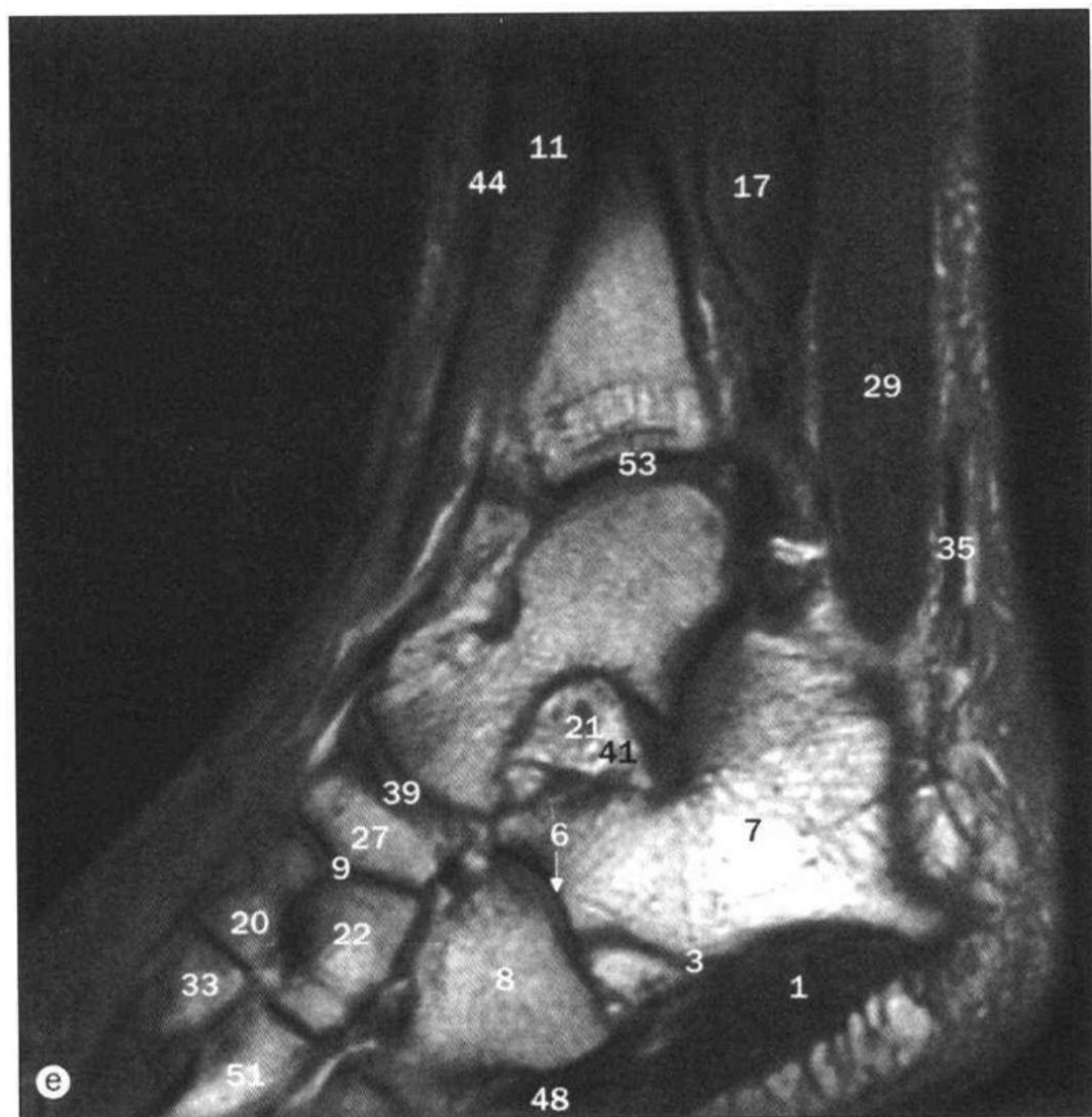
a~e. 足, 轴位 MRI。



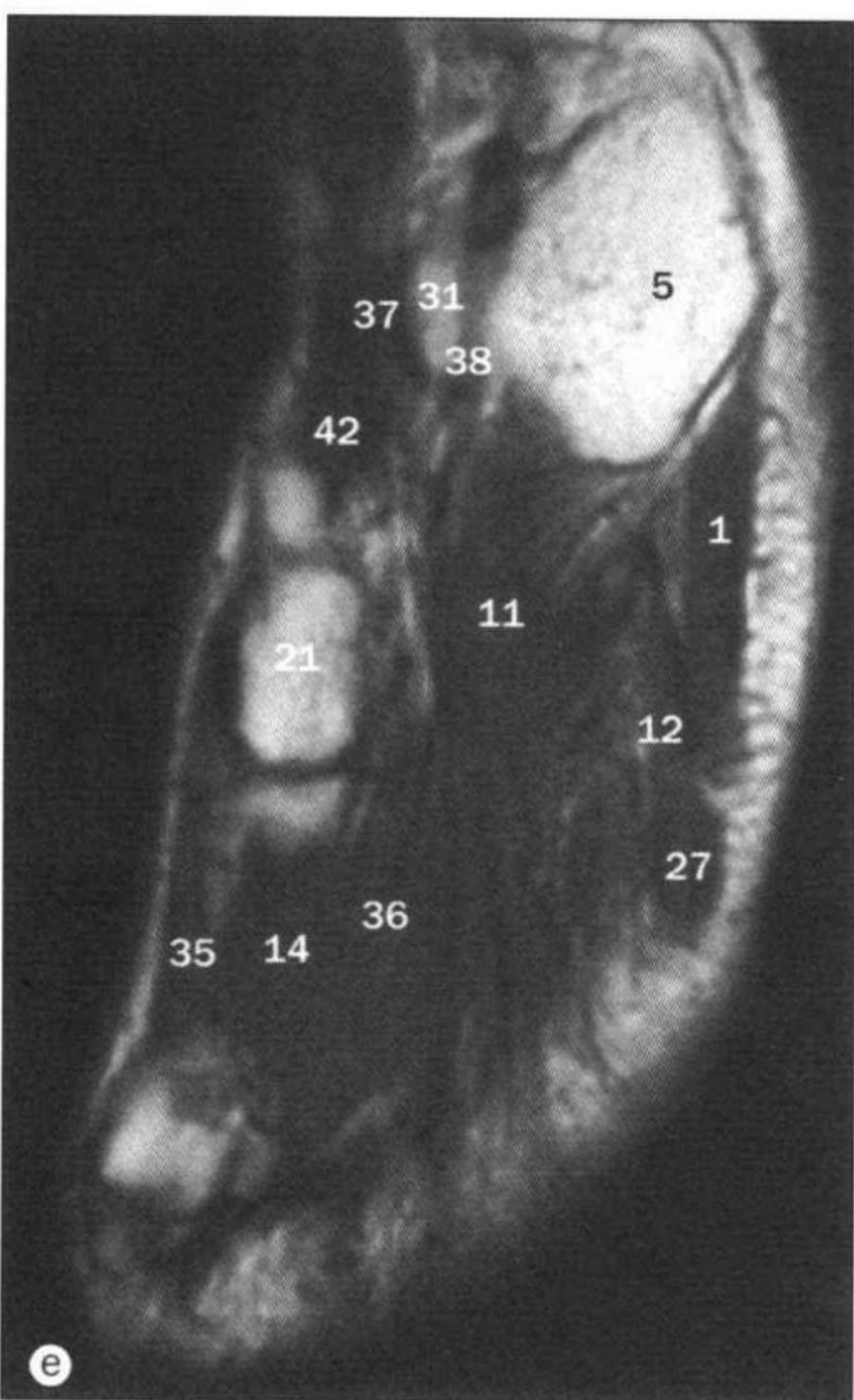
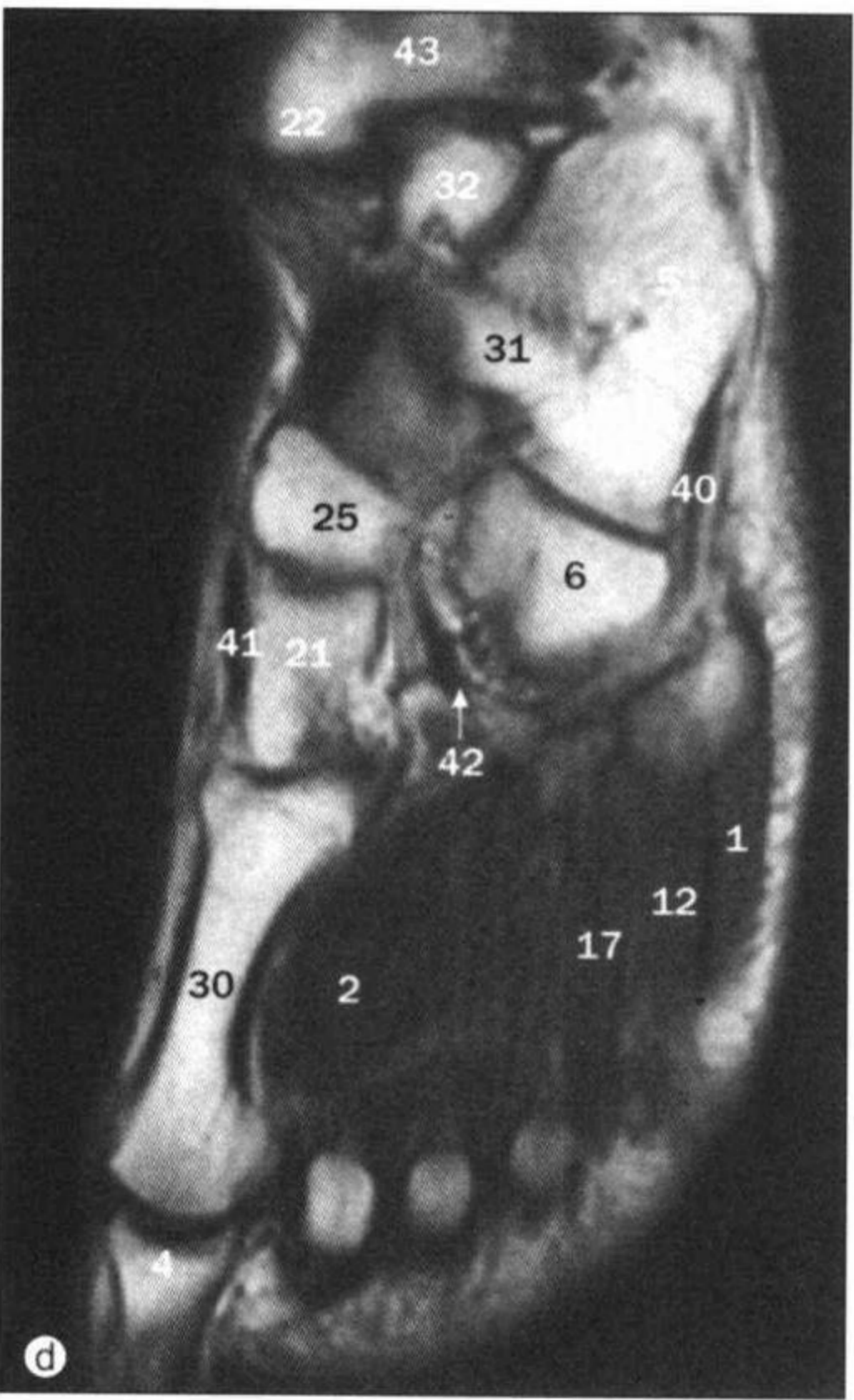
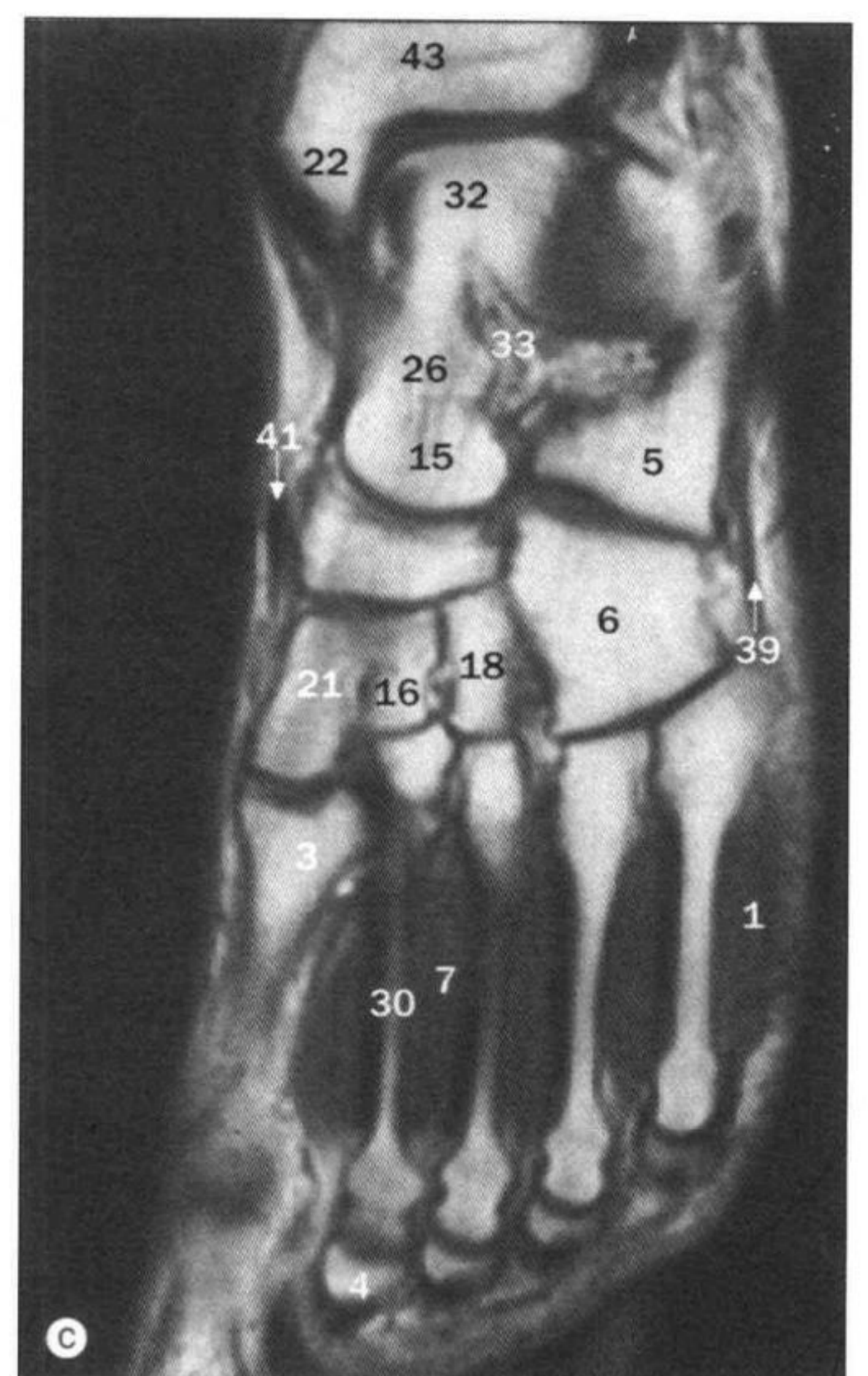
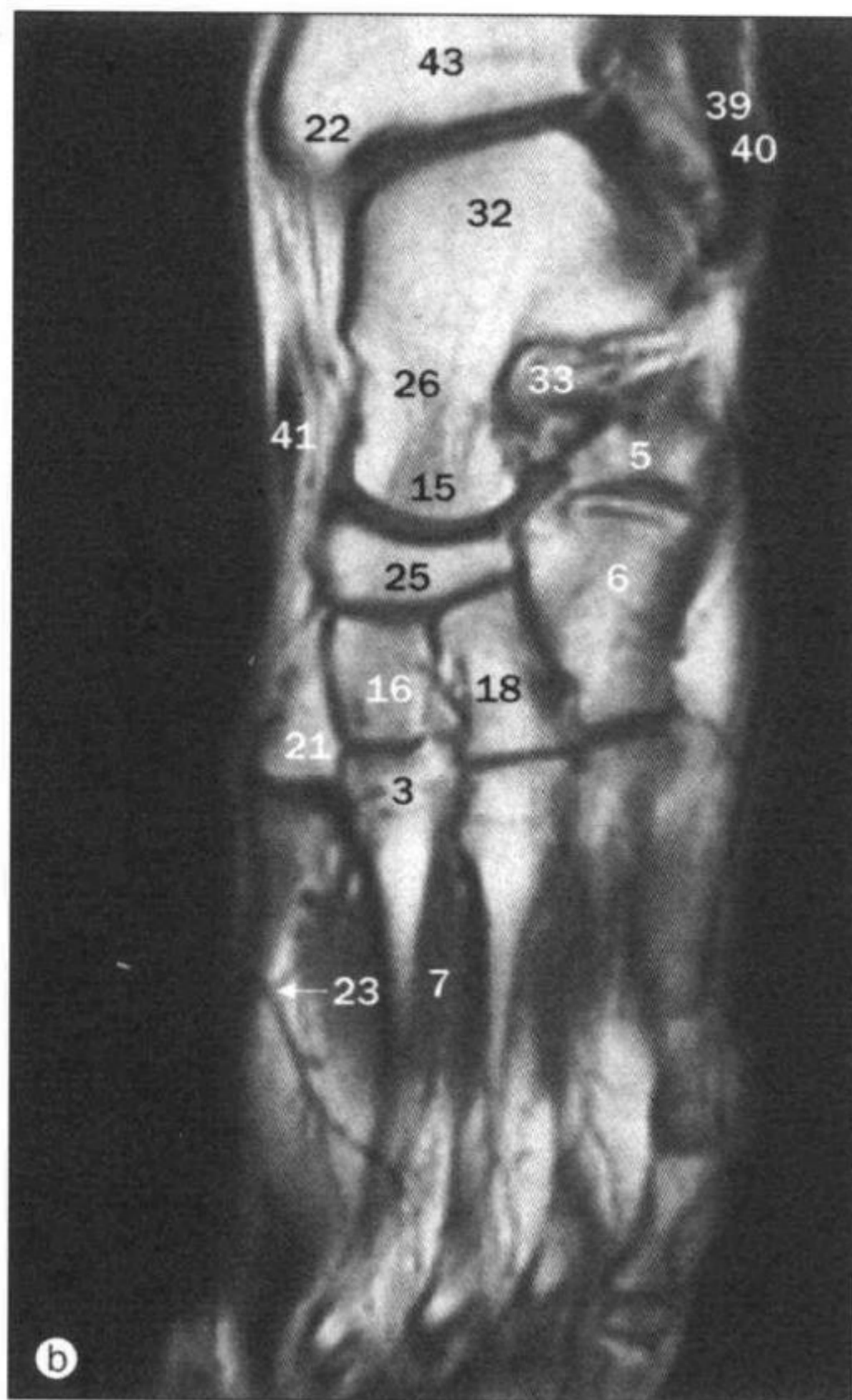
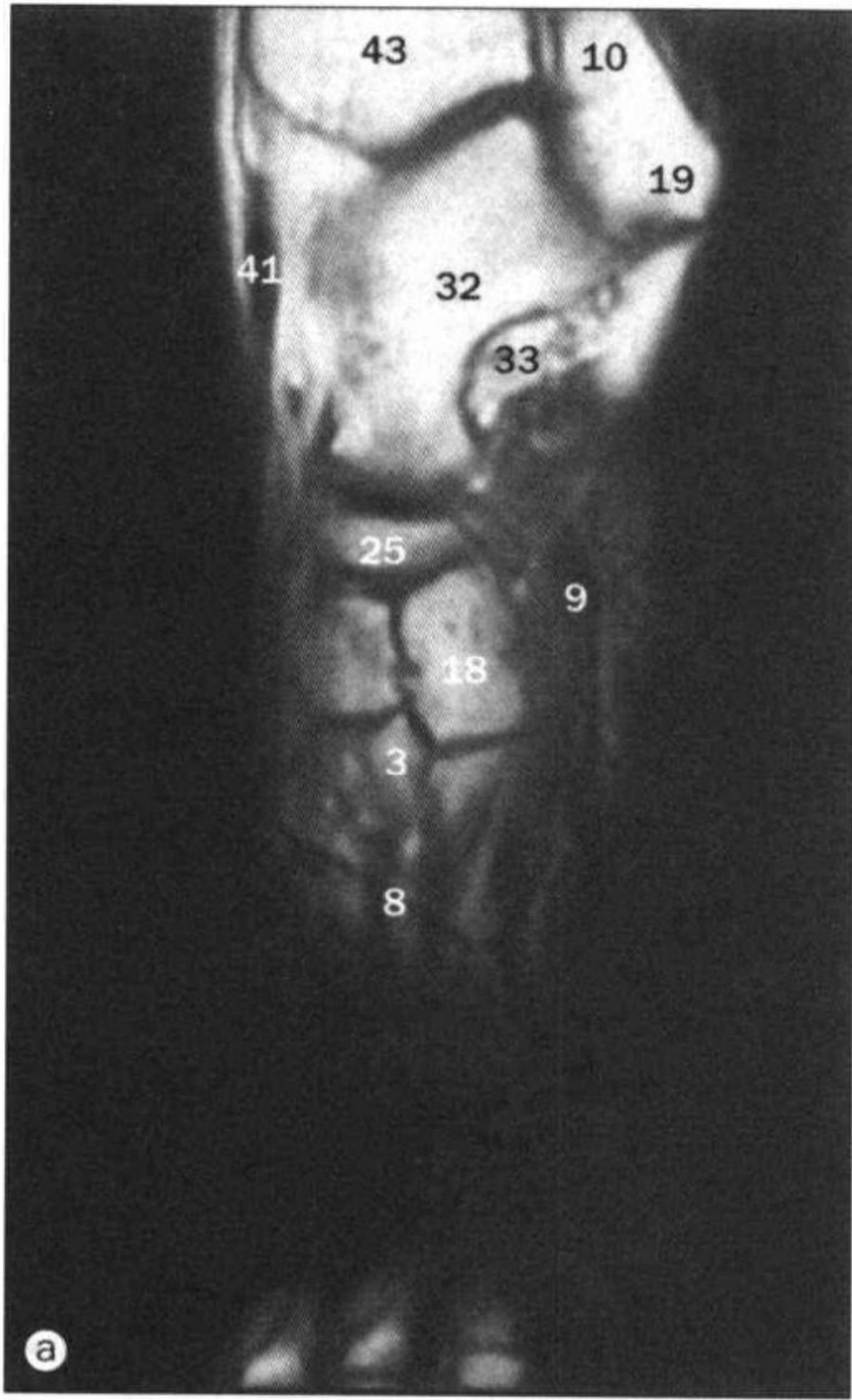
- | | |
|--|--|
| 1 小趾展肌
abductor digiti minimi muscle | 11 第3腓骨肌 peroneus tertius muscle |
| 2 拇展肌 abductor hallucis muscle | 12 足底腱膜 plantar aponeurosis |
| 3 跟骨 calcaneus | 13 胫后动脉 posterior tibial artery |
| 4 三角韧带 deltoid ligament | 14 载距突 sustentaculum tali |
| 5 腓骨 fibula | 15 距骨 talus |
| 6 足底方肌
flexor accessorius muscle | 16 趾长屈肌腱 tendon of flexor
digitorum longus muscle |
| 7 趾短屈肌
flexor digitorum brevis muscle | 17 腓骨短肌腱
tendon of peroneus brevis muscle |
| 8 下胫腓关节
inferior tibiofibular joint | 18 腓骨长肌腱
tendon of peroneus longus muscle |
| 9 外踝 lateral malleolus | 19 胫骨后肌腱
tendon of tibialis posterior muscle |
| 10 内踝 medial malleolus | 20 胫骨 tibia |



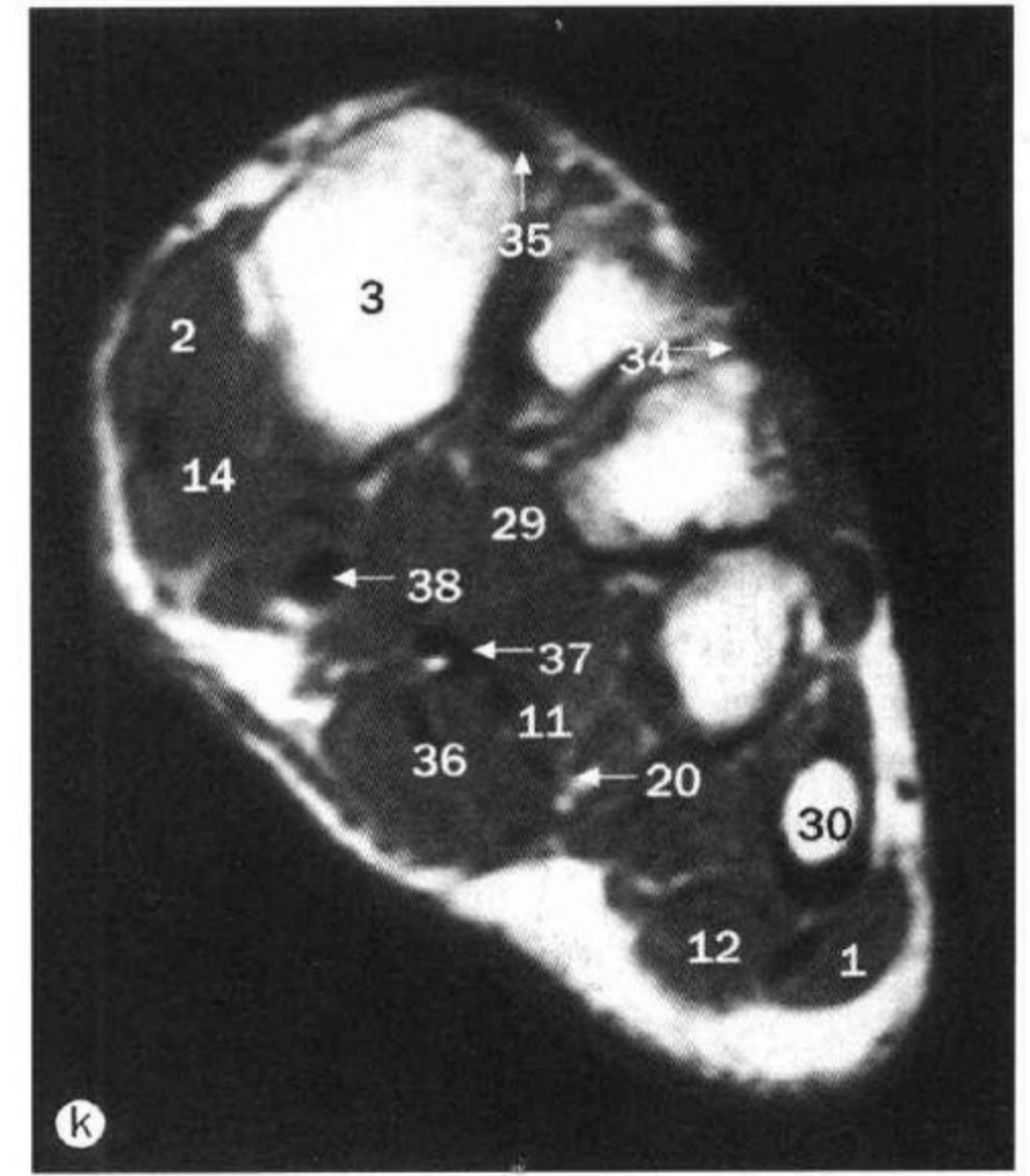
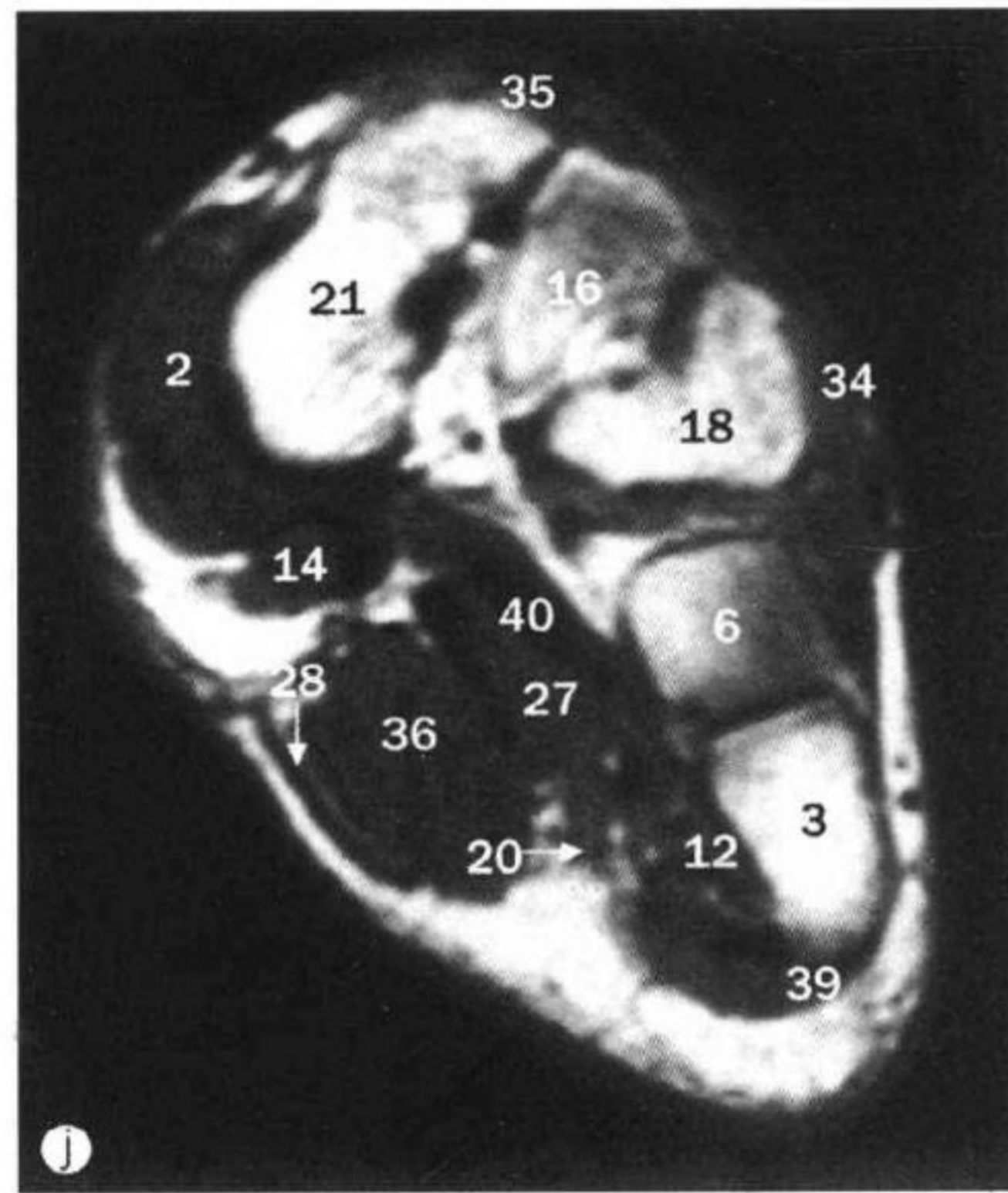
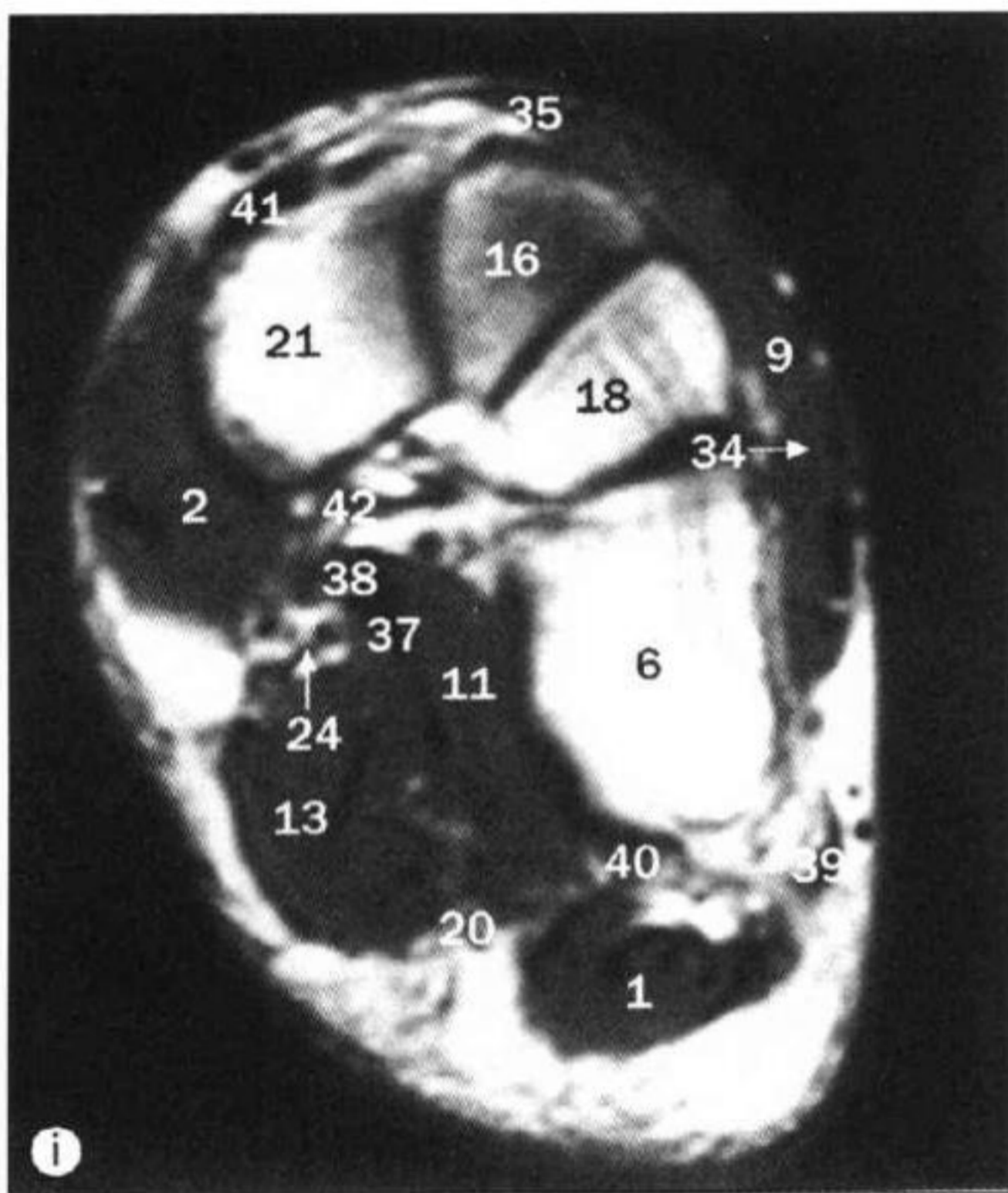
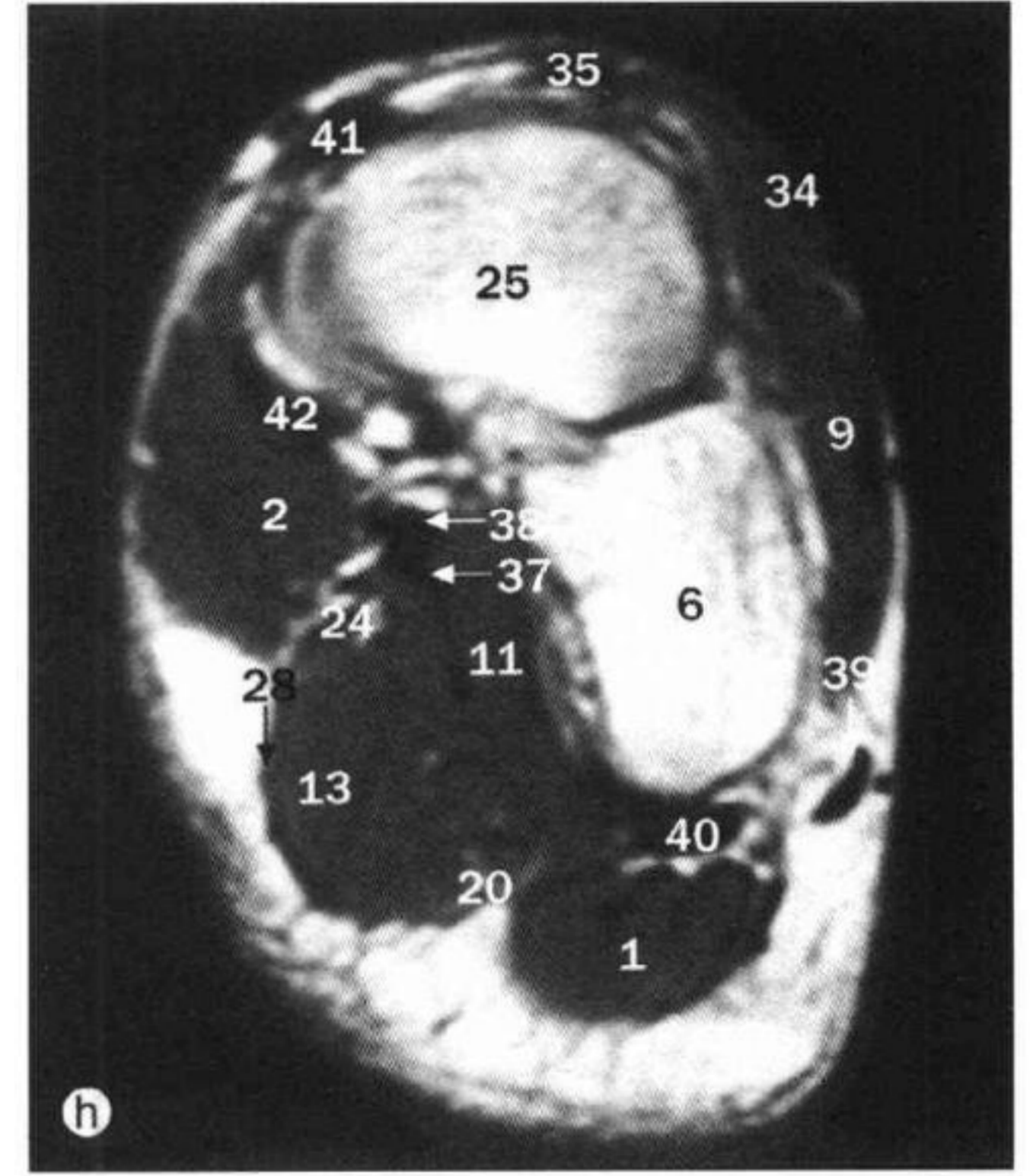
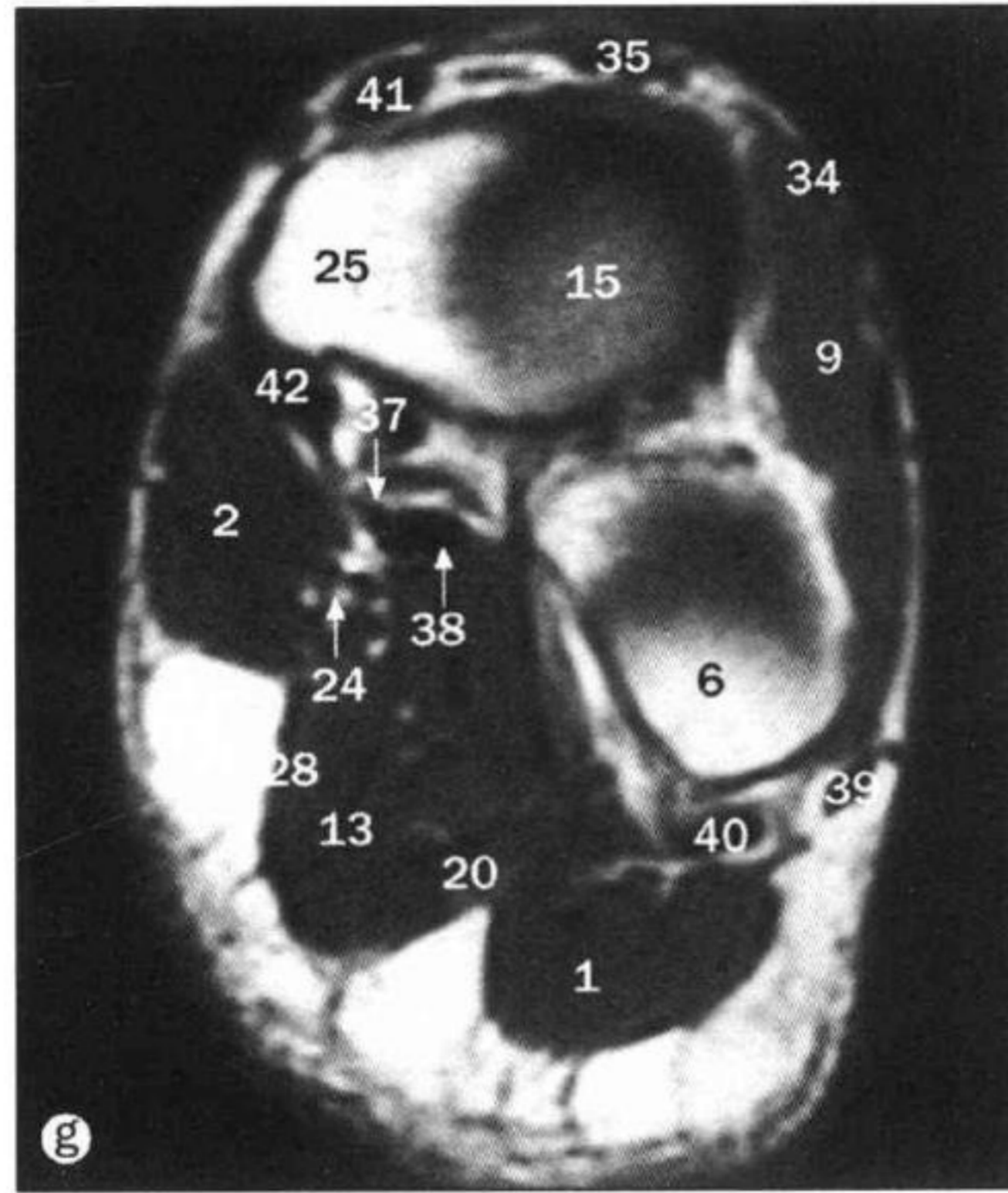
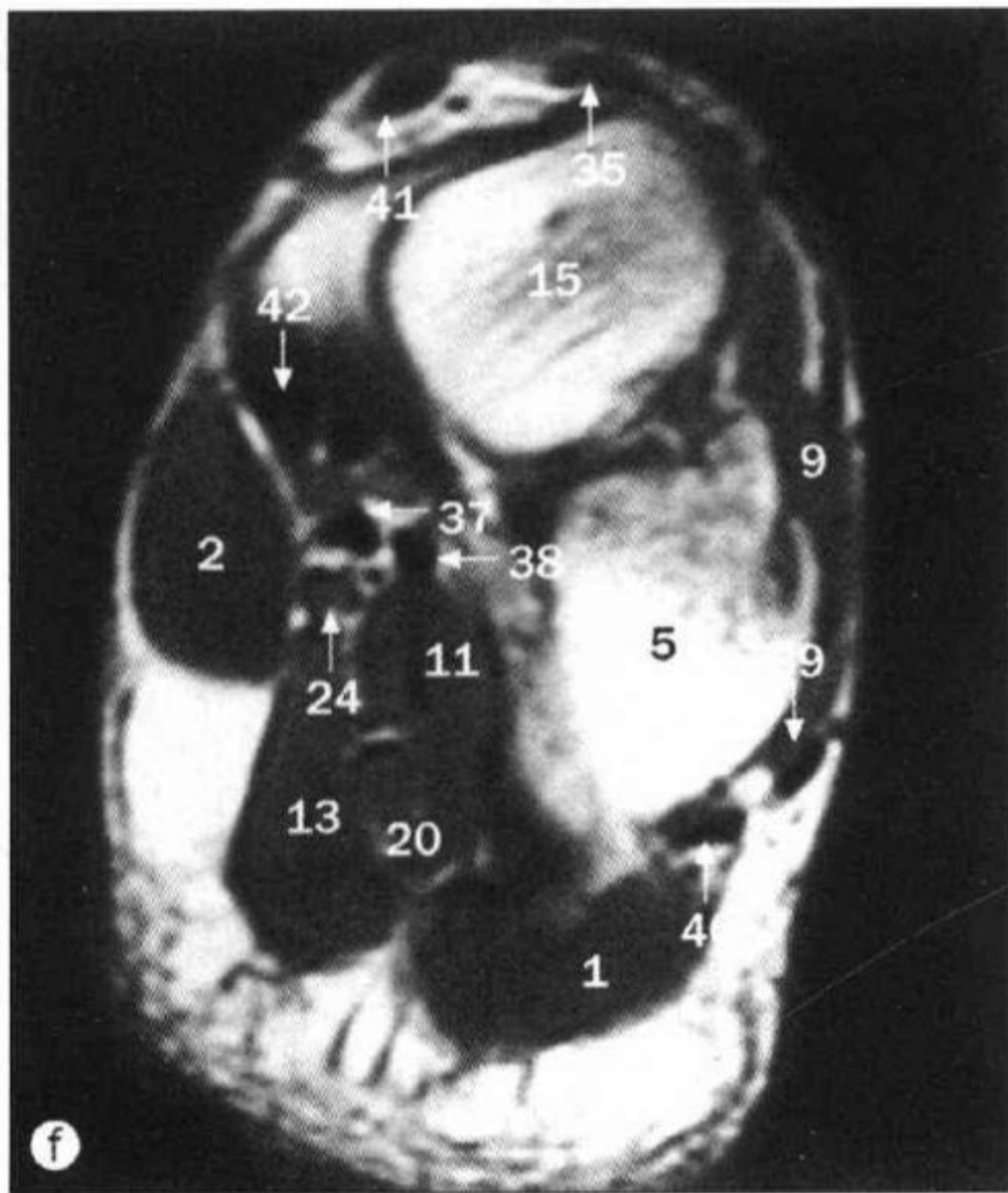
a~f. 踝, 矢状位 MRI。



- | | |
|--|---|
| 1 小趾展肌 aductor digiti minimi muscle | 32 胫后动静脉 posterior tibial artery and vein |
| 2 拇展肌 abductor hallucis muscle | 33 第2跖骨 second metatarsal |
| 3 跟骨前结节 anterior tubercle of calcaneus | 34 短隐静脉 short saphenous vein |
| 4 关节软骨 articular cartilage | 35 小隐静脉 small saphenous vein |
| 5 跟骨结节 calcaneal tuberosity | 36 比目鱼肌 soleus muscle |
| 6 跟骰关节 calcaneocuboid joint | 37 距骨上关节面 superior surface of talus |
| 7 跟骨 calcaneus | 38 载距突 sustentaculum tali |
| 8 骰骨 cuboid | 39 距舟关节 talonavicular joint |
| 9 楔舟关节 cuneonavicular joint | 40 距骨 talus |
| 10 趾短伸肌 extensor digitorum brevis muscle | 41 跗骨窦 tarsal sinus |
| 11 趾伸肌 extensor digitorum muscle | 42 跟腱 tendo calcaneus (Achilles' tendon) |
| 12 脂肪垫 fat pad | 43 趾伸肌腱 |
| 13 腓骨 fibula | tendon of extensor digitorum muscle |
| 14 第1跖骨 first metatarsal | 44 拇长伸肌腱 |
| 15 趾短屈肌 flexor digitorum brevis muscle | tendon of extensor hallucis longus muscle |
| 16 趾长屈肌 flexor digitorum longus muscle | 45 趾长屈肌腱 |
| 17 拇长屈肌 flexor hallucis longus muscle | tendon of flexor digitorum longus muscle |
| 18 距骨头 head of talus | 46 拇长屈肌腱 |
| 19 下胫腓关节 inferior tibiofibular joint | tendon of flexor hallucis longus muscle |
| 20 中间楔骨 intermediate cuneiform | 47 腓骨短肌腱 |
| 21 距跟骨间韧带 | tendon of peroneus brevis muscle |
| interosseous talocalcaneal ligament | 48 腓骨长肌腱 |
| 22 外侧楔骨 lateral cuneiform | tendon of peroneus longus muscle |
| 23 外踝 lateral malleolus | 49 胫骨前肌腱 |
| 24 内侧楔骨 medial cuneiform | tendon of tibialis anterior muscle |
| 25 内踝 medial malleolus | 50 胫骨后肌腱 |
| 26 内侧距跟关节 medial subtalar joint | tendon of tibialis posterior muscle |
| 27 足舟骨 navicular | 51 第3跖骨 third metatarsal |
| 28 距骨颈 neck of talus | 52 胫骨 tibia |
| 29 腓骨短肌 peroneus brevis muscle | 53 踝关节的胫距面 |
| 30 足底腱膜 plantar aponeurosis | tibiotalar part of ankle joint |
| 31 后距跟关节 posterior subtalar joint | 54 足舟骨粗隆 tuberosity of navicular |



足, MRI。
a~e. 斜轴位。
f~k. 冠状位。



1 小趾展肌 abductor digiti minimi muscle
 2 拇展肌 abductor hallucis muscle
 3 跖骨底部 base of metatarsal
 4 趾骨近端底部 base of proximal phalanx
 5 跟骨 calcaneus
 6 骰骨 cuboid
 7 骨间背侧肌 dorsal interossei muscle
 8 足背静脉弓 dorsal venous arch
 9 趾短伸肌 extensor digitorum brevis muscle
 10 腓骨 fibula
 11 足底方肌 (副屈肌) flexor accessorius muscle
 12 小趾屈肌 flexor digiti minimi muscle
 13 趾短屈肌 flexor digitorum brevis muscle
 14 拇短屈肌 flexor hallucis brevis muscle
 15 距骨头 head of talus
 16 中间楔骨 intermediate cuneiform
 17 骨间肌 interossei muscles
 18 外侧楔骨 lateral cuneiform
 19 外踝 lateral malleolus
 20 足底外侧神经 lateral plantar nerve
 21 内侧楔骨 medial cuneiform
 22 内踝 medial malleolus

23 内侧缘静脉 medial marginal vein
 24 足底内侧神经和动脉 medial plantar nerve and artery
 25 足舟骨 navicular
 26 距骨颈 neck of talus
 27 小趾对跖肌 opponens digiti minimi muscle
 28 足底腱膜 plantar aponeurosis
 29 骨间足底肌 plantar interossei muscle
 30 跖骨体 shaft of metatarsal
 31 载距突 sustentaculum tali
 32 距骨 talus
 33 跗骨窦 tarsal sinus
 34 趾长伸肌腱 tendon of extensor digitorum longus muscle
 35 拇长伸肌腱 tendon of extensor hallucis longus muscle
 36 趾短屈肌腱 tendon of flexor digitorum brevis muscle
 37 趾长屈肌腱 tendon of flexor digitorum longus muscle
 38 拇长屈肌腱 tendon of flexor hallucis longus muscle
 39 腓骨短肌腱 tendon of peroneus brevis muscle
 40 腓骨长肌腱 tendon of peroneus longus muscle
 41 胫前肌腱 tendon of tibialis anterior muscle
 42 胫后肌腱 tendon of tibialis posterior muscle
 43 胫骨 tibia