



ISUOG Basic Training

妇科超声基础

学习目标

完成本课程后应掌握：

- 掌握经腹部和经阴道妇科超声检查的系统扫查方法

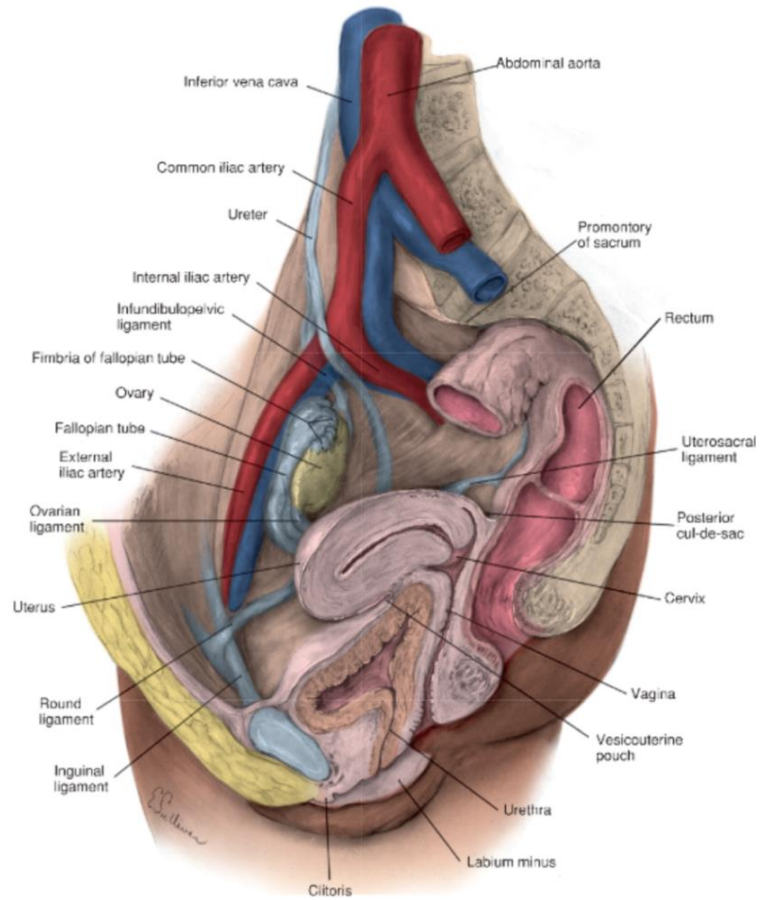
关键问题

- 1、如何进行全面系统的妇科超声检查
- 2、什么时候进行经阴道和经腹部超声检查
- 3、如何有效的显示阴道、宫颈、子宫和卵巢？

关键点

- 了解何时进行经阴道和经腹部超声检查
- 了解探头方位的重要性
- 掌握实施妇科超声检查的步骤

正常女性盆腔解剖



妇科超声检查技术

系统性的检查技术

规范化的检查程序

经阴道扫查还是经腹部扫查

经腹部扫查

- 频率低
- 分辨率低
- 扫查视野大
- 可同时观察腹部其它脏器
- 需充盈膀胱

经阴道（直肠）扫查

- 频率高
- 分辨率高
- 扫查视野小
- 不能同时观察腹部其它脏器
- 需排空膀胱

经腹部扫查

需充盈膀胱吗？

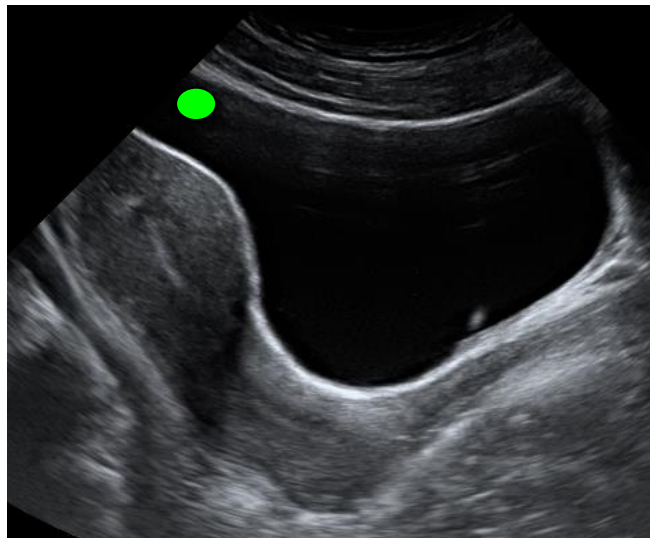
如果初次检查，则需要充盈膀胱；

若为补充检查，则无需充盈膀胱

经腹部妇科超声检查—探头定位

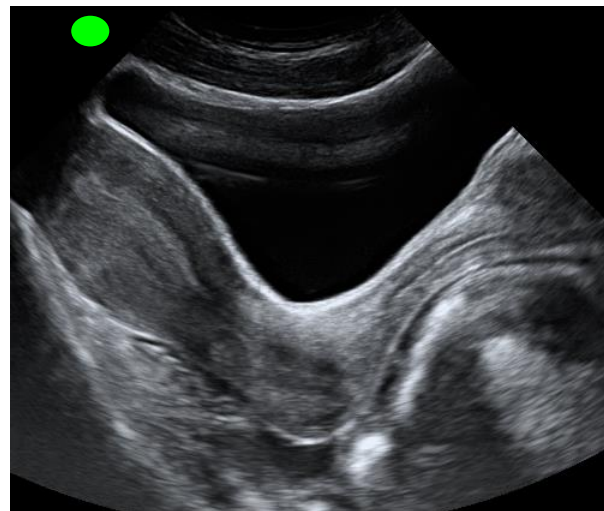
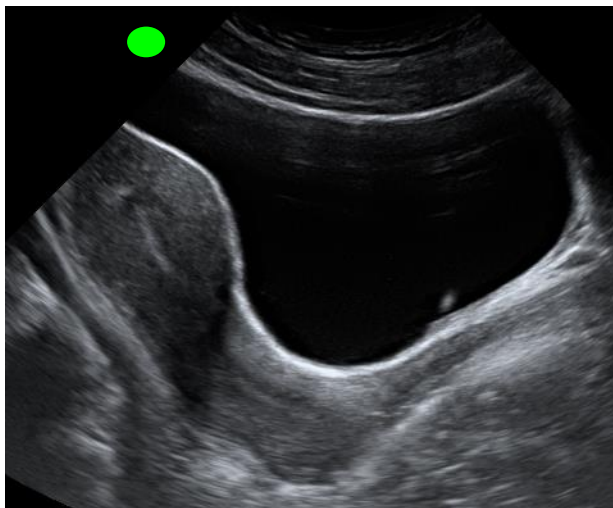
矢状切面上，屏幕左侧为患者头侧

Cranial 头侧
(patient's head
患者的头)



Caudal 足侧
(patient's feet
患者的足)

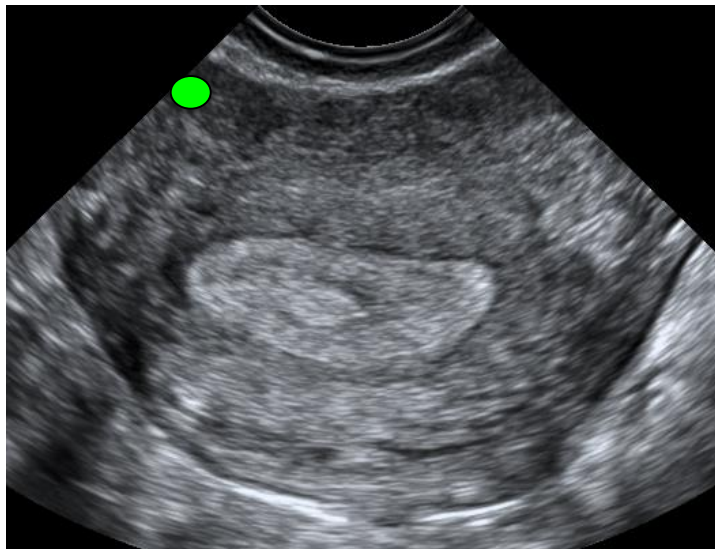
经腹超声 子宫矢状切面



腹部妇科超声检查——探头定位

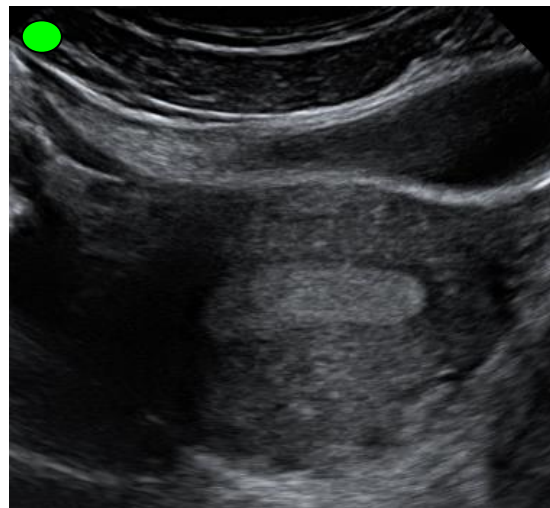
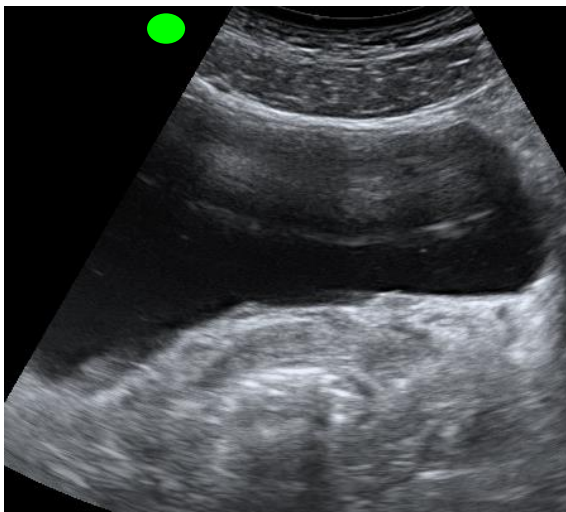
在横切面上，屏幕的左侧显示患者的右侧

患者右侧

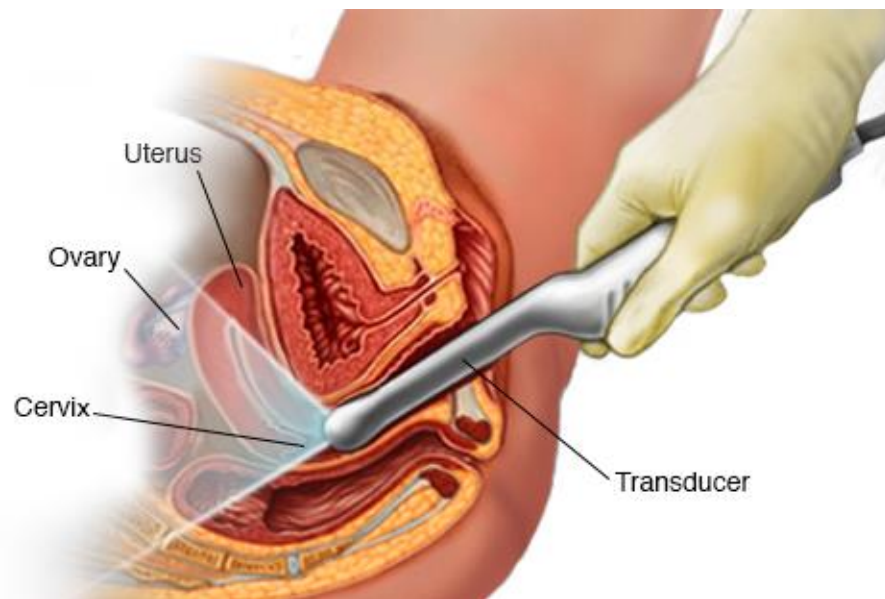


患者左侧

经腹扫查 子宫横切面

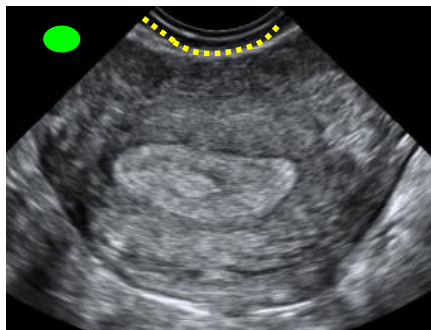


经阴道扫查

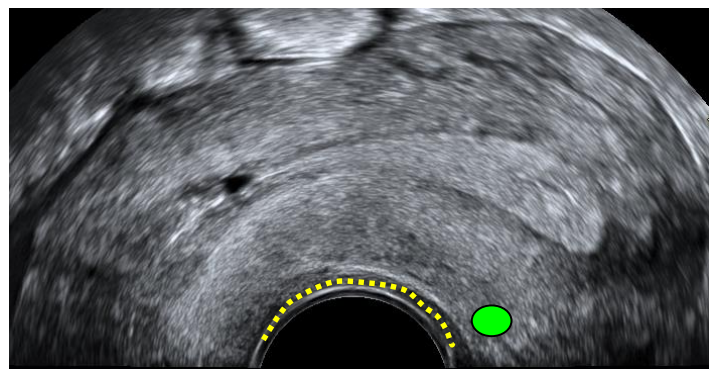
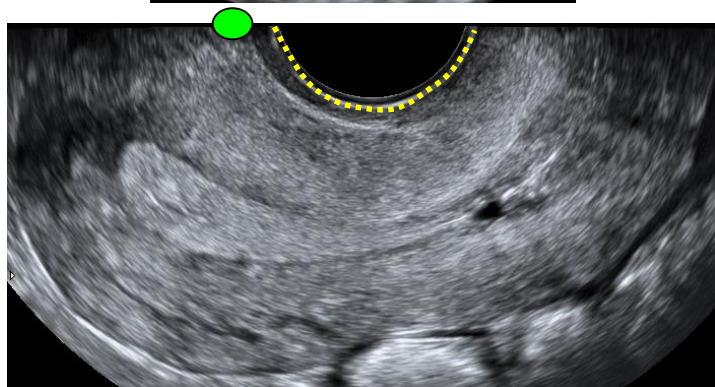
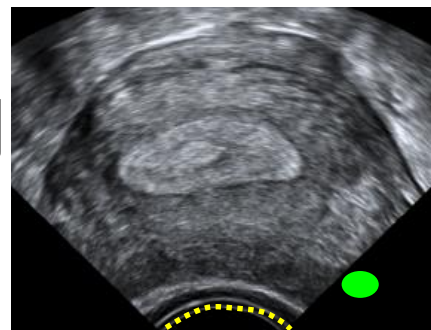


经阴道妇科超声检查—探头定位

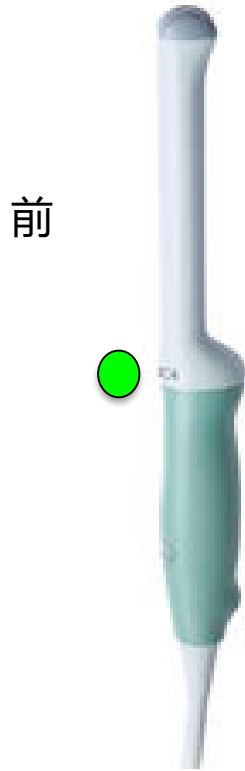
患者右侧



患者右侧



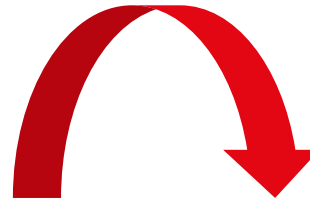
探头移动



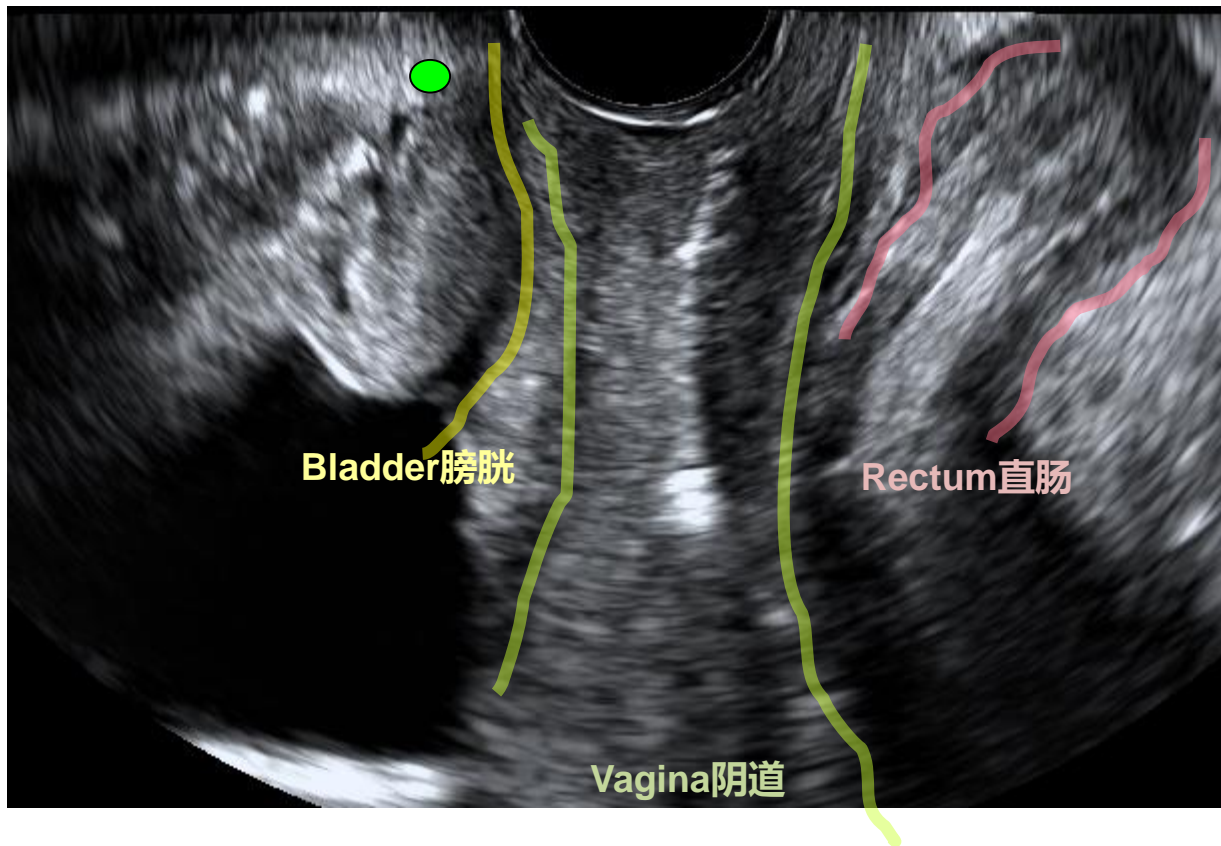
用于矢状切面



用于横切面



矢状切面和横切面
均可使用



Preset Change

Ez Exam+

WS80A



- Gynecology
 - Adnexa**
 - General
 - General1
- OB
 - 1st Trimester
- Urology
- Prostate
- User Preset
 - 1stTrim Anom



		Cine/Send
		Rec/Send
		Application Change
		Exit
		None
		Volume Save

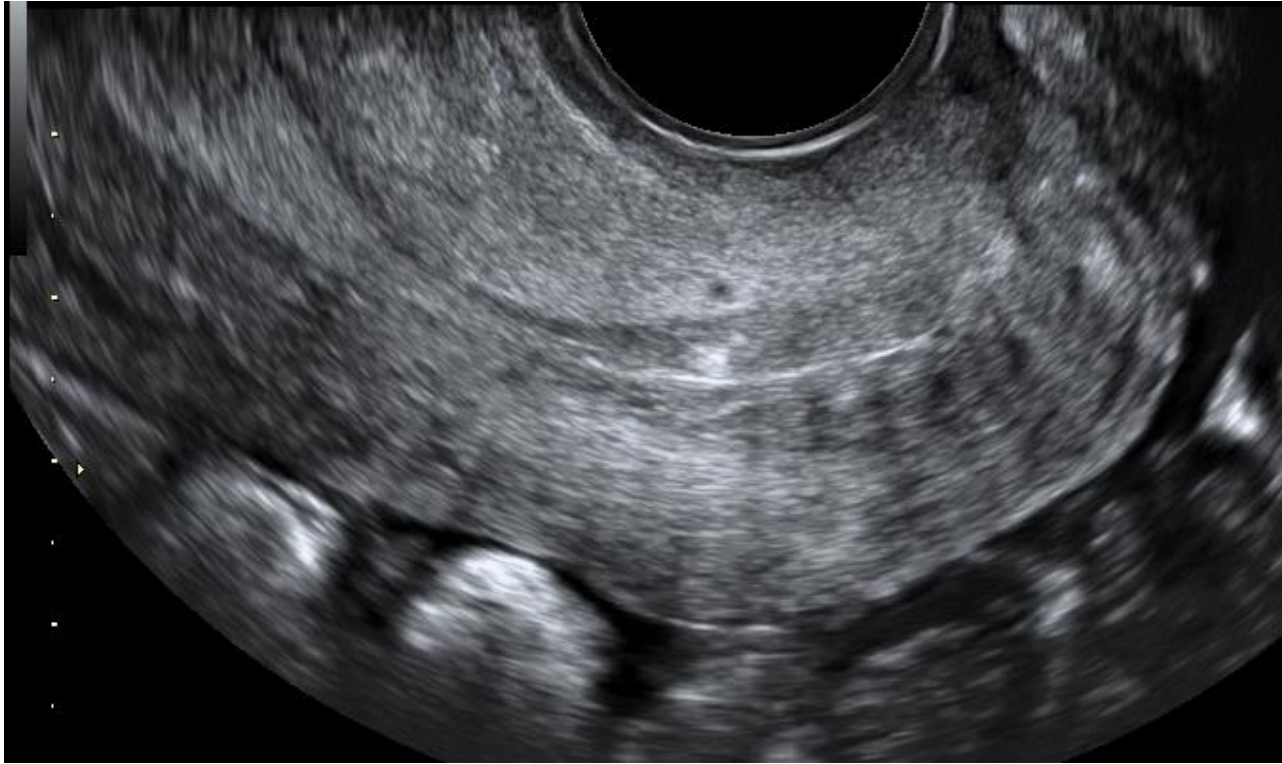
子宫检查—宫颈

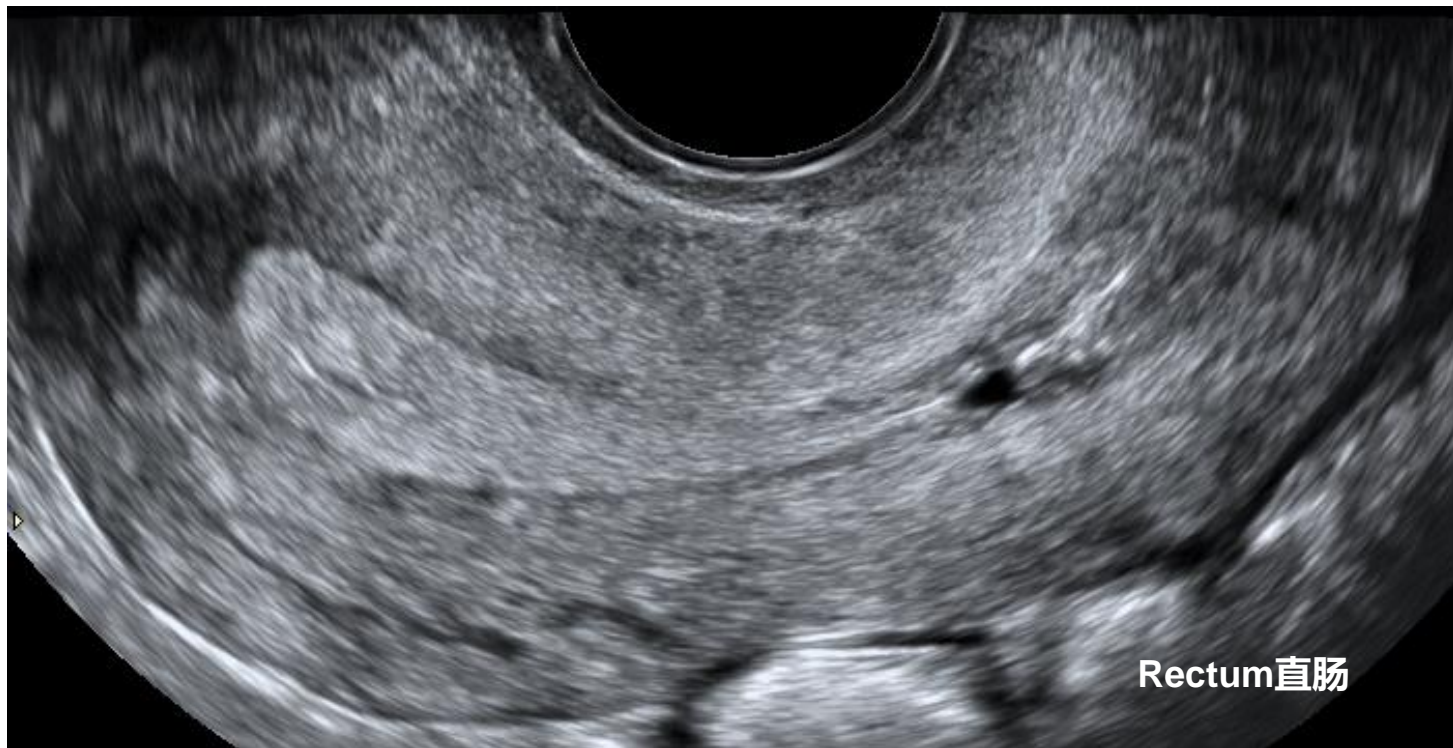


子宫检查—宫颈



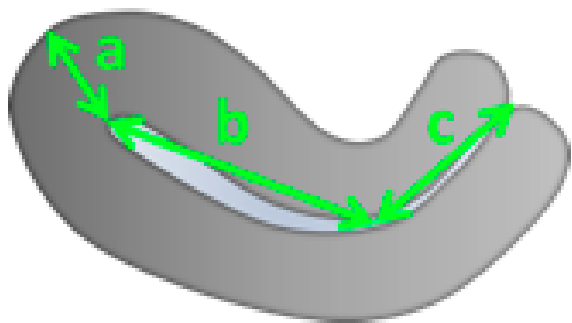
子宫检查——宫颈



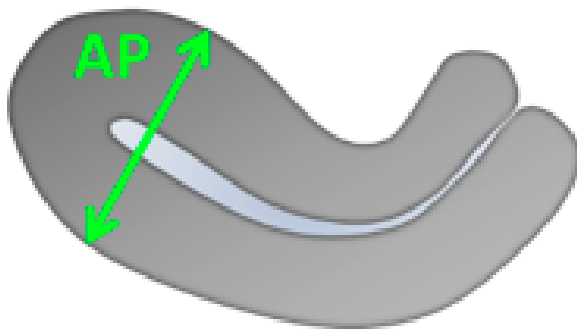


Rectum 直肠

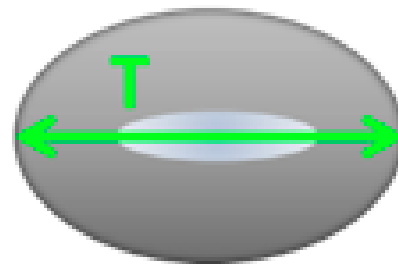
子宫的测量



子宫整个长度测量

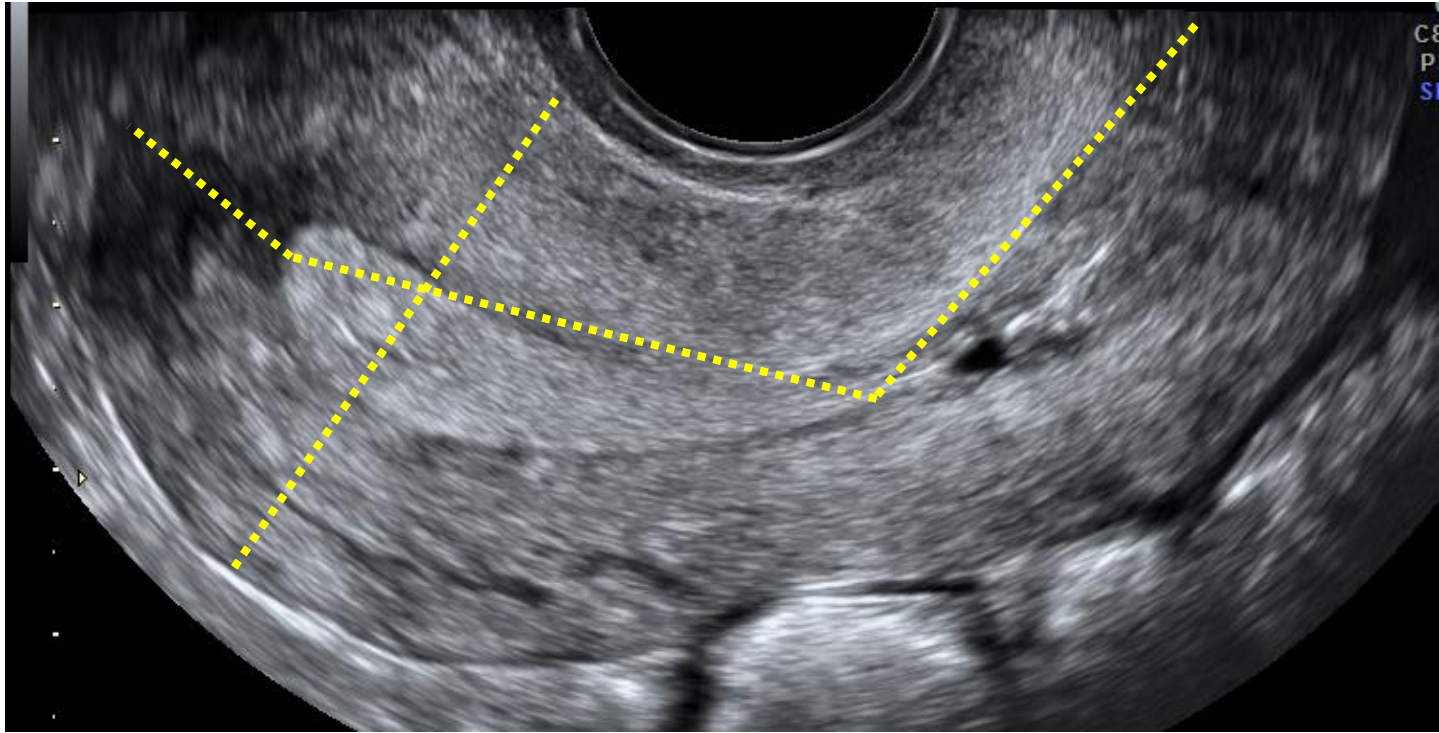


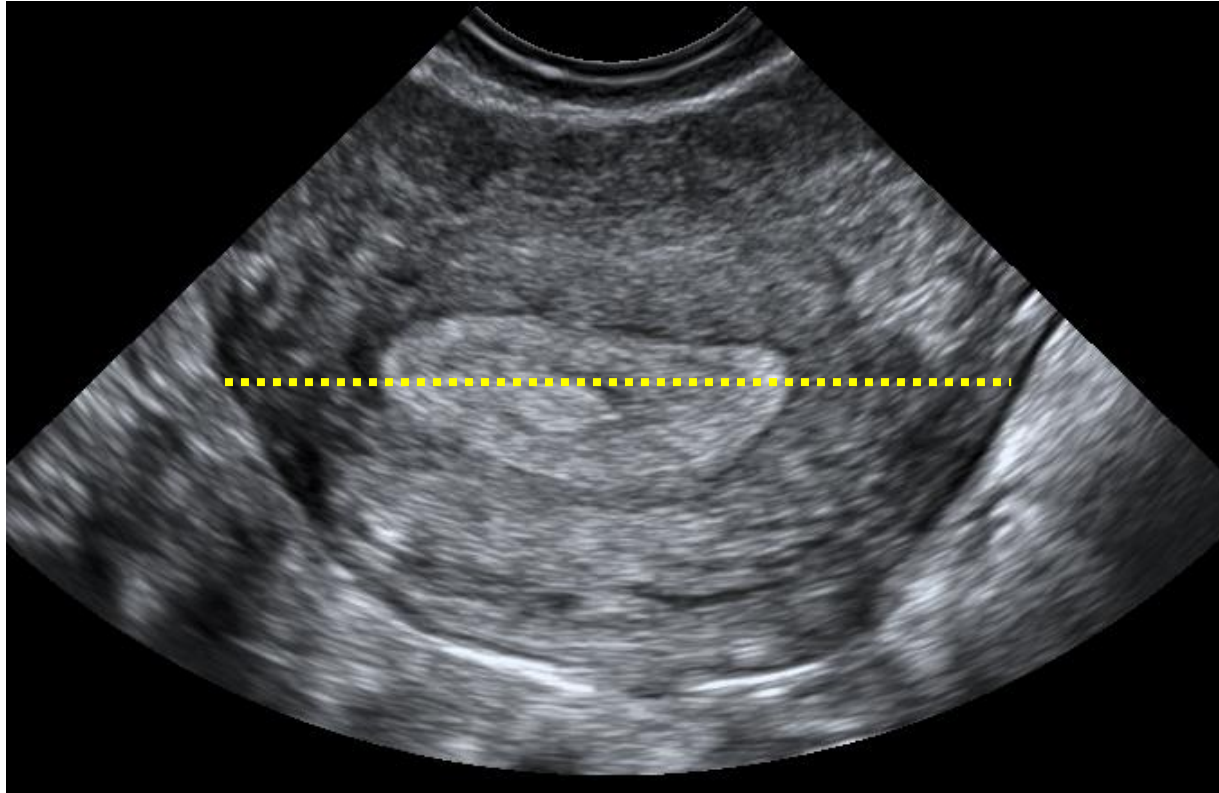
前后径测量

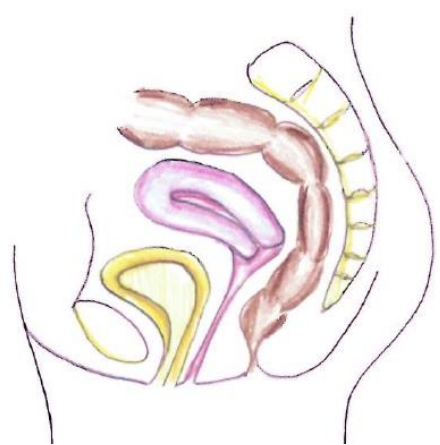


横径测量

Van Den Bosch et al. UOG, 2015, 46: 284–298

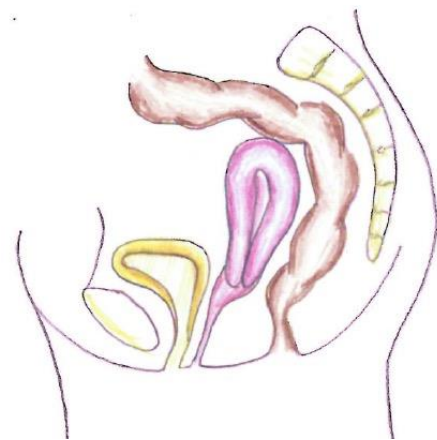




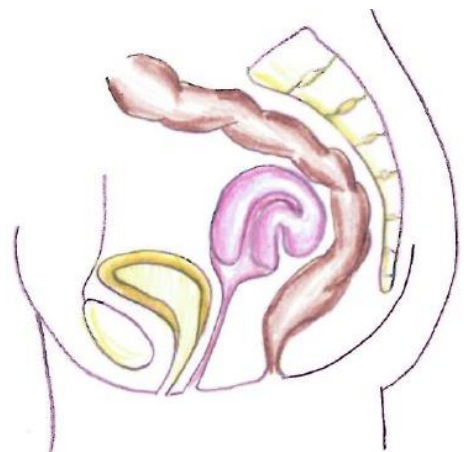
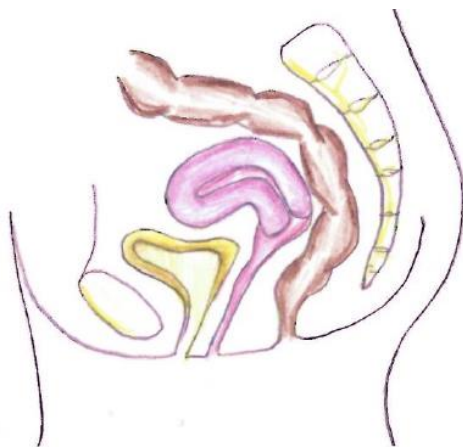


前倾

后倾

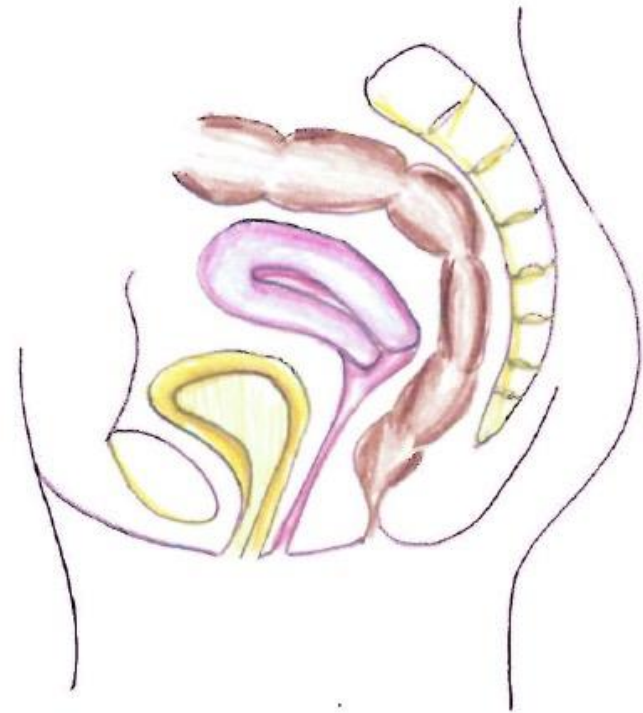


前屈

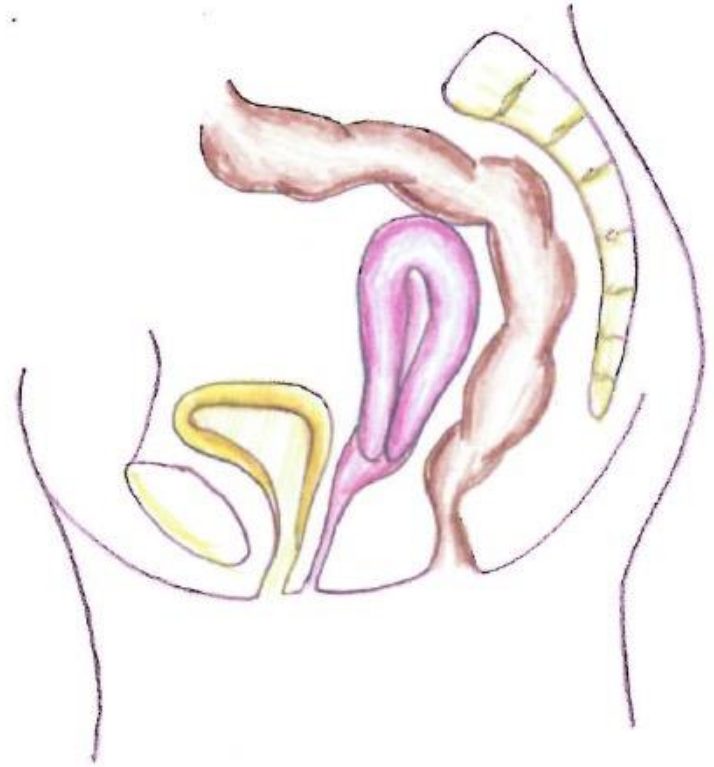
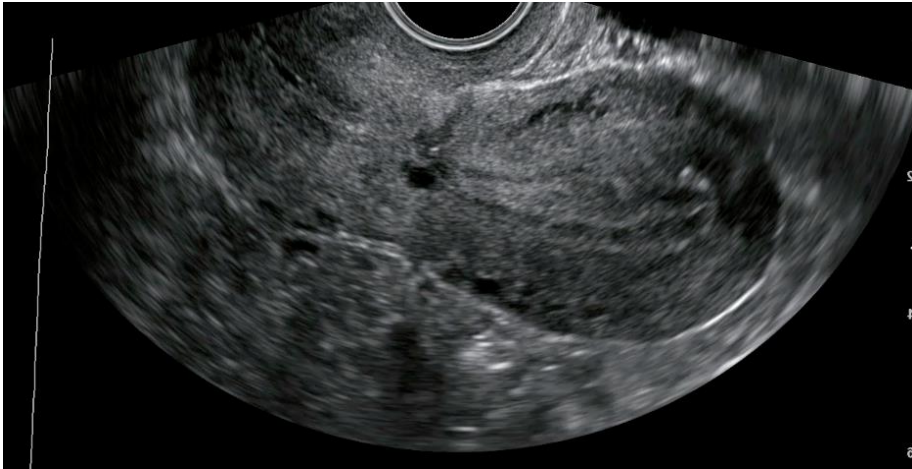


后屈

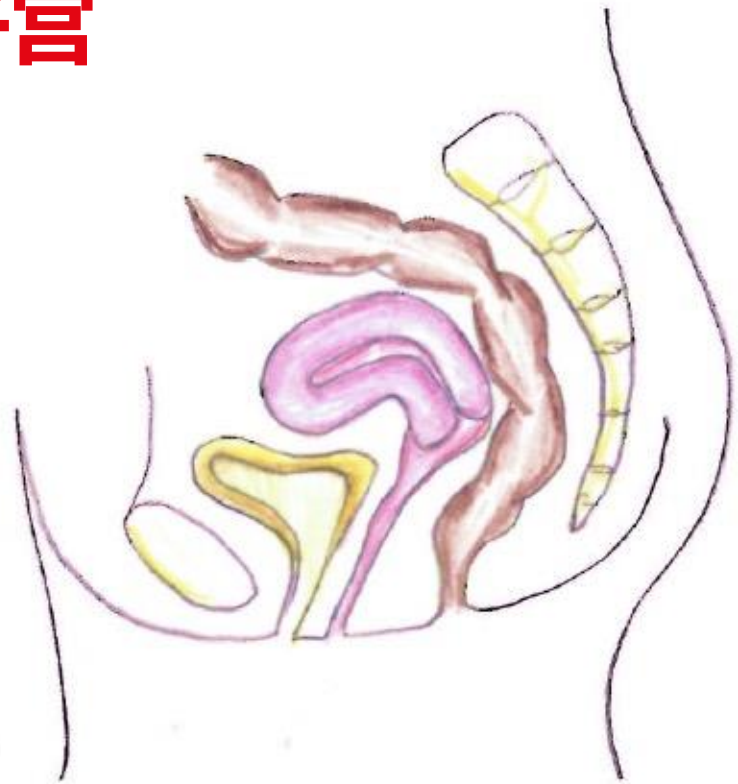
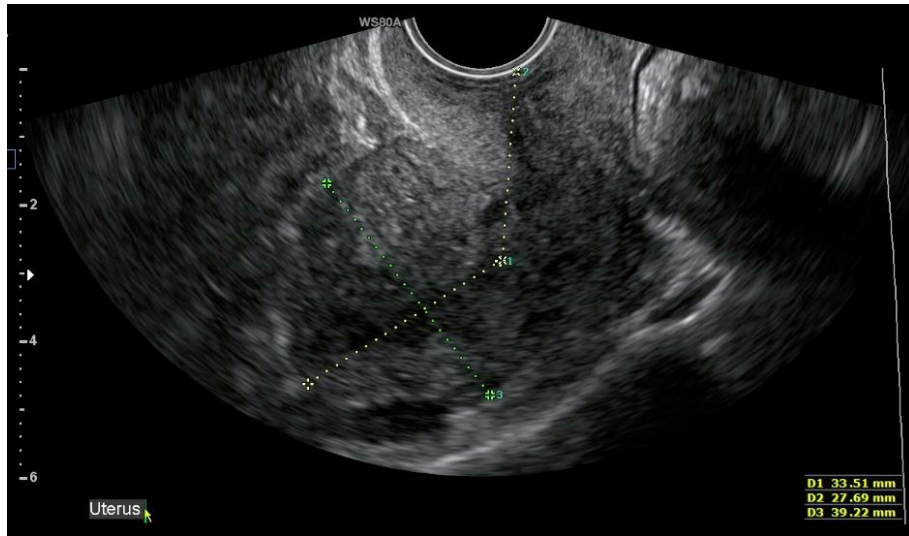
前倾位子宫



后倾位子宫



前屈位子宫



后屈位子宫



Preset Change

2D G32/DR123 FA10/P90 Frq Gen./10.0cm



- Ez Exam+
- Gynecology
 - Adnexa**
 - General
 - General1
- OB
 - 1st Trimester
- Urology
 - Prostate
- User Preset
 - 1stTrim Anom



Control panel for the ultrasound machine, featuring a central trackball and several function buttons:

- Set
- Exit
- Cine/Send
- Rec/Send
- Application Change
- Exit
- None
- Volume Save

Ez Exam+

WS80A

- Gynecology
 - Adnexa
 - General
 - General1
- OB
 - 1st Trimester**
- Urology
- Prostate
- User Preset
 - 1stTrim Anom

-2
-4
-6

Set Exit

P1	Cine/Send
P2	Rec/Send
U1	Application Change
U2	Exit
U3	None
U4	Volume Save

Preset Change

2D G46/DR123/FA10/P90/Frq Gen./7.0cm



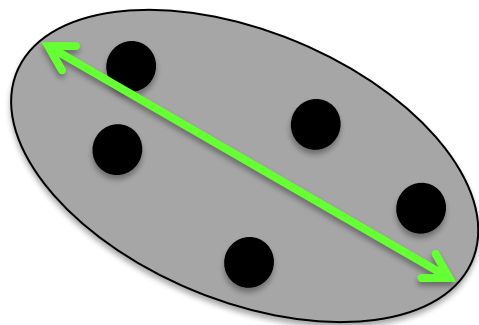
WS80A

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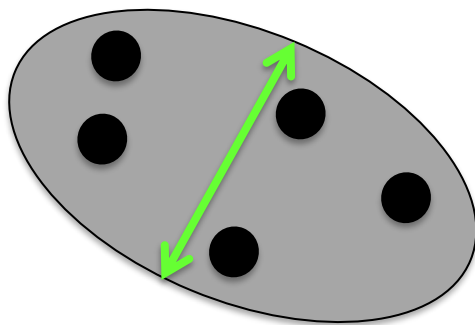


Control panel with buttons: Set, Exit, Cine/Send, Rec/Send, Application Change, Exit, None, Volume Save.

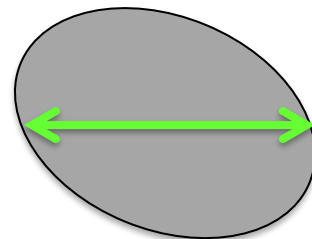
卵巢的测量



卵巢长径测量

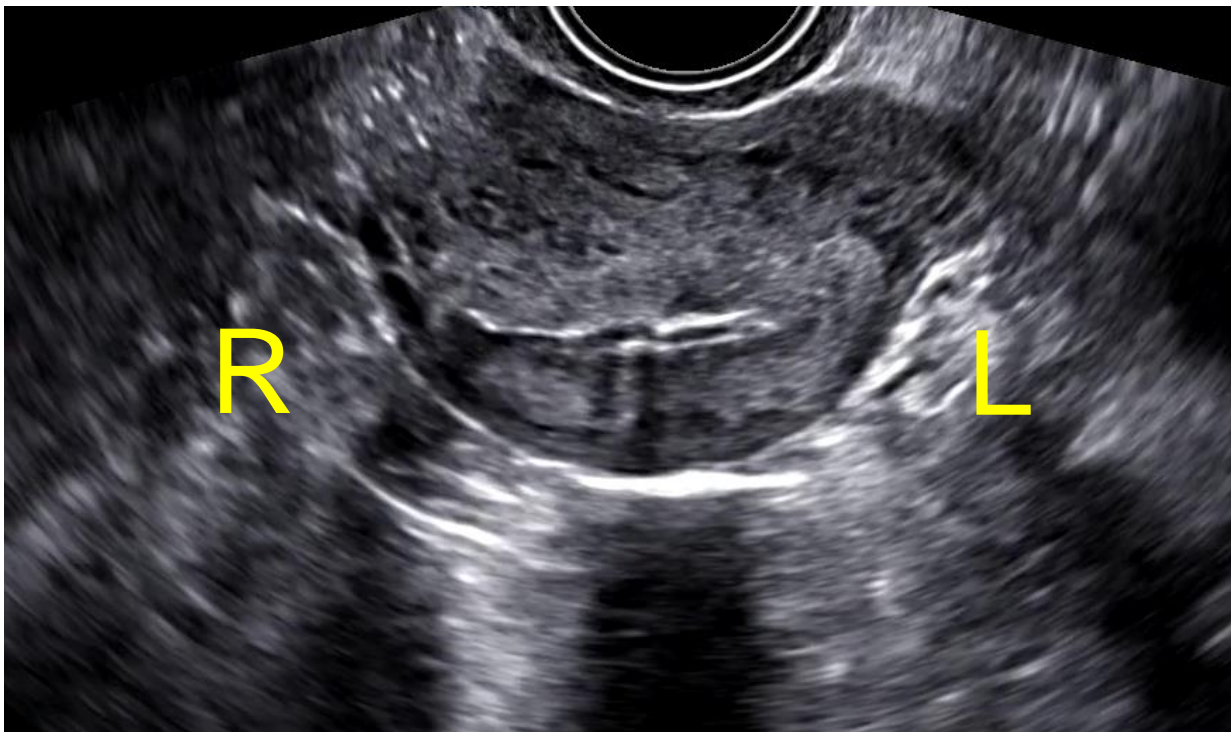


前后径测量

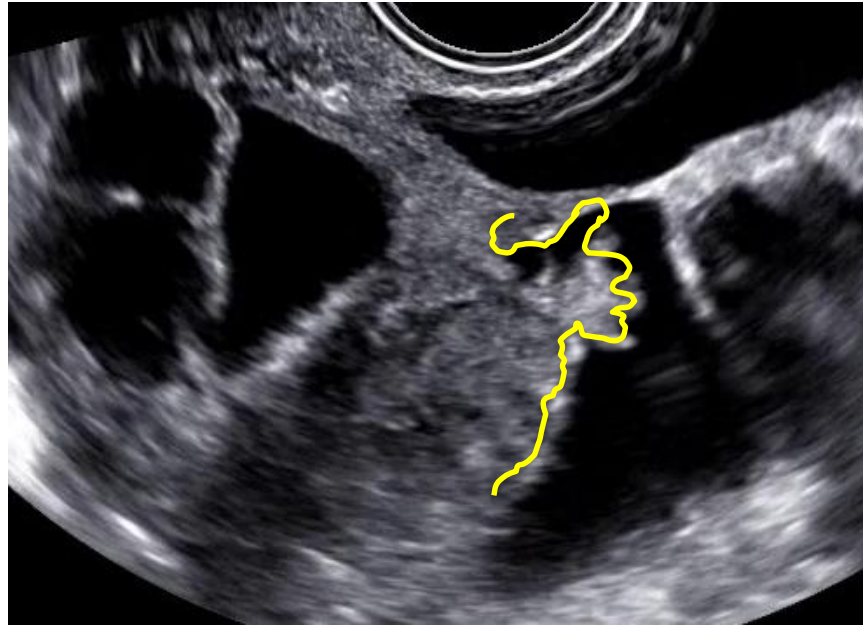


横径测量

卵巢扫查方法



窝内有液体时，可看到正常的输卵管



经阴道超声检查是一种动态、互动的检查方法

- 检查脏器的活动性
 - 脏器位置固定，要考虑粘连的可能性
- 检查压痛部位
 - 确定与压痛部位相关的脏器

正常超声表现

- 女性在绝经前后子宫和卵巢声像图表现的差异
- 女性在月经周期中子宫和卵巢声像图表现的变化

要点

妇科超声基础

- 图像定位
- 优化图像
- 使用规范化的扫查技术

从现在开始，实践、阅读书籍和文献、参加更高级的超声课程

怎样用标准的术语来描述超声表现

Ultrasound Obstet Gynecol. 2000 Oct;16(5):500

Terms, definitions and measurements to describe the sonographic features of adnexal tumors: a consensus opinion from the International Ovarian Tumor Analysis (IOTA) group

D. TIMMERMAN, L. VALENTIN*, T. H. BOURNE†, W. P. COLLINS‡, H. VERRELST§ and I. VERGOTE

Systematic approach to sonographic evaluation of the pelvis in women with suspected endometriosis, including terms, definitions and measurements: a consensus opinion from the International Deep Endometriosis Analysis (IDEA) group

S. GUERRIERO^{1#}, G. CONDOUS^{2#}, T. VAN DEN BOSCH³, L. VALENTIN⁴, F. P. G. LEONE⁵, D. VAN SCHOUBROECK³, C. EXACOUSTOS⁶, A. J. F. INSTALLÉ⁷, W. P. MARTINS⁸, M. S. ABRAO⁹, G. HUDELIST¹⁰, M. BAZOT¹¹, J. L. ALCAZAR¹², M. O. GONÇALVES¹³, M. A. PASCUAL¹⁴, S. AJOSSA¹, L. SAVELLI¹⁵, R. DUNHAM¹⁶, S. REID¹⁷, U. MENAKAYA¹⁸, T. BOURNE¹⁹, S. FERRERO²⁰, M. LEON²¹, T. BIGNARDI²², T. HOLLAND²³, D. JURKOVIC²³, B. BENACERRAF²⁴, Y. OSUGA²⁵, E. SOMIGLIANA²⁶ and D. TIMMERMAN³

Ultrasound Obstet Gynecol. 2010 Jan;35: 103

Terms, definitions and measurements to describe the sonographic features of the endometrium and intrauterine lesions: a consensus opinion from the International Endometrial Tumor Analysis (IETA) group

F. P. G. LEONE*, D. TIMMERMAN†, T. BOURNE‡, L. VALENTIN§, E. EPSTEIN¶, S. R. GOLDSTEIN**, H. MARRET††, A. K. PARSONS‡‡, B. GULL§§, O. ISTRE¶¶, W. SEPULVEDA***, E. FERRAZZI††† and T. VAN DEN BOSCH†

Consensus statements on how to:

- Measure
- Describe ultrasound images
 - Terms
 - Definitions

怎样用标准的术语来描述超声表现

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国际卵巢肿瘤分析专家组颁布的共识：
附件区肿瘤声像图特征描述的术语、定义、测量

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国际深部内膜异位症分析专家组颁布的共识：
疑有子宫内膜异位症的盆腔声像图评估，包括：术语、定义、测量

怎样用标准的术语来描述超声表现

Terms, definitions and measurements to describe the sonographic features of the endometrium and intrauterine lesions: a consensus opinion from the International Endometrial Tumor Analysis (IETA) group

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国际子宫内膜肿瘤分析专家组颁布的共识：
子宫内膜和宫内病变声像图特征描述的术语、定义、测量

ISUOG Basic Training translated by **Yongqing Sun**;

Revised by **Dan Zhang**

2nd revision by **Qingqing Wu**



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