





History Taking & Physical Examination

Objectives:

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- → Slides
- → Important
- → Golden notes
- → Extra
- → Doctor's notes
- → Previous Doctor's notes
- → Reference



Steps of Obstetric History:

- \rightarrow General information
- → History of current pregnancy
- \rightarrow Past Obstetric history
- → Gynecological history
- \rightarrow Enquiry about other systems:
- → Past medical and surgical history
- → Psychiatric history
- → Family history
- → Social history
- \rightarrow Drug history
- \rightarrow Allergies
- \rightarrow Summary

1. General Information:

- \rightarrow Name
- \rightarrow Age
- → Presenting complaint (patients words not medical words) or reason for attending.

2. History of Current Pregnancy:

- → **Gravidity: total numbers of pregnancies** regardless of how they ended.
 - \rightarrow No previous pregnancy G = 0
- → **Parity:** number of **live births** at any gestation or **stillbirths after 24 weeks** of gestation.
 - \rightarrow G1P0 \rightarrow woman is pregnant for the first time and has not yet delivered.
 - \rightarrow G1P1 \rightarrow woman has had one pregnancy and has delivered once.
- → **Gestation (GA):** weeks calculated from ultrasound or based on LMP and the wheel.

→ Methods to calculate GA:

- → Based on LMP (1st first day of the last menstrual cycle to current date, normally 38 42 days).
- $\rightarrow~$ Based on US (more accurate).
- → **LMP:** last menstrual period.
- \rightarrow **EDD:** expected date of delivery (Naegele's rule).
 - → Add 7 days to first day of LMP, subtract 3 months, add one year (EDD = LMP + 7 days 3 months + 1 year).
 - \rightarrow Example:
 - → LMP: 27 /8/2014
 - → **EDD:** 3/6/2015
- $\rightarrow~$ Dates as calculated from ultrasound.
- \rightarrow Single / multiple (chorionicity).
- \rightarrow Detailed of presenting problem.
- \rightarrow Have there been any other problems in this pregnancy? to prevent recurrent.
- → Has there been any bleeding , contractions or loss of fluid vaginally + fetal movement?

3. Past Obstetric History:

- → List the previous pregnancies and their outcomes in order:
 - \rightarrow Date of delivery (or pregnancy termination).
 - $\rightarrow\,$ Location of delivery (or pregnancy termination).
 - \rightarrow Duration of gestation (recorded in weeks).
 - \rightarrow If correlated with birth weight \rightarrow assessment of fetal growth patterns.
 - → Gestational age of any spontaneous abortion important in any subsequent pregnancy.
 - → Type of delivery (or method of terminating pregnancy).
 - \rightarrow Important for planning method of delivery in present pregnancy.
 - $\rightarrow\,$ Difficult forceps delivery or a cesarean delivery $\rightarrow\,$ require personal review of labor and delivery records.
 - \rightarrow Duration of labor (recorded in hours).
 - \rightarrow Alert physician to the possibility of an unusually long or short labor.
 - \rightarrow Type of anesthesia.
 - → Any complications of anesthesia should be noted.
 - → Maternal complications.
 - → Urinary tract infections, vaginal bleeding, hypertension and postpartum complications may be repetitive → prevent future problems.
 - $\rightarrow\,$ Newborn weight (in grams or pounds and ounces).
 - → Gives indications of gestational diabetes, fetal growth problems, shoulder dystocia, or cephalopelvic disproportion.
 - → Newborn gender.
 - → Provide insight into patient and family expectations + indicate certain genetic risk factors.
 - → Fetal and neonatal complications.
 - → Elicit problems + determine whether you need to obtain further information
 - → Any problems after birth? Breathed and cried right away? Left the hospital with the mother?

4. Gynecological History:

- → **Periods:** regularity.
- \rightarrow Contraceptive history.
- \rightarrow Previous infections and their treatment .
- → When was the last cervical smear? Was it normal? Have there ever been any that were abnormal? If yes, what treatment has been undertaken?
 - $\rightarrow~$ Pap smear? Should do it every 3 years
- \rightarrow Previous gynecological surgery?

5. Past Medical and Surgical History:

- \rightarrow Relevant medical problems.
- → Any previous operations? Type of anesthetic used, any complications?
- \rightarrow Scars \rightarrow adhesions \rightarrow weak uterus \rightarrow may rupture during contraction \rightarrow go with CS.

Obstetric History

6. Psychiatric History:

- → Postpartum blues?
- → Postpartum depression?
- → Depression unrelated to pregnancy?
- → Major psychiatric illness?

7. Family History:

- \rightarrow Diabetes
- \rightarrow Hypertension
- \rightarrow Thromboembolic disease
- \rightarrow Genetic problems
- → Psychiatric problems

8. Social History:

- \rightarrow Smoking
- \rightarrow Illegal drug used
- → Marital status
- \rightarrow Occupation

9. Drug History:

 \rightarrow Ask about heparin and aspirin in cases of bleeding.

10. Allergies

Summary

Obstetric History Summary

General Information	\rightarrow Name \rightarrow Age	→ Presenting complaint (patients words not medical words) or reason for attending.
History of Current Pregnancy	 → Gravidity: total numbers of pregnancies regardless of how they ended. → Parity: number of live births any gestation or stillbirths after 24 weeks of gestation. → Gestation (GA): weeks calculated from ultrasound or based on LMP and the wheel. → Single / multiple (chorionicity). → LMP: last menstrual period. 	 → EDD: expected date of delivery (<i>Naegele's rule</i>). → EDD = LMP + 7 days - 3 months + 1 year. → Dates as calculated from ultrasound. → Detailed of presenting problem. → Have there been any other problems in this pregnancy? to prevent recurrent. → Has there been any bleeding , contractions or loss of fluid vaginally + fetal movement?
Past Obstetric History "List previous pregnancies & their outcomes in order"	 → Date of delivery. → Location of delivery. → Duration of gestation (in weeks). → Correlated with birth weight → assess fetal growth. → Gestational age of any spontaneous abortion is important in any subsequent pregnancy. → Type of delivery. → Plan method of delivery in present pregnancy. → Difficult forceps delivery / cesarean delivery → review labor & delivery records. → Duration of labor (recorded in hours). → Alert an unusually long or short labor. 	 → Type of anesthesia. → Note any complications of anesthesia. → Maternal complications. → UTI - vaginal bleeding - HTN - postpartum complication → maybe repetitive → prevention. → Newborn weight (grams / pounds / ounces). → Indications of gestational diabetes - fetal growth problems - shoulder dystocia - cephalopelvic disproportion. → Newborn gender. → Insight into patient and family expectations + genetic risk factors. → Fetal and neonatal complications. → Any problems after birth? Breathed and cried right away? Left hospital with mother?
Gynecological History	 → Periods: regularity. → Contraceptive history. → Previous infections & their treatment. → Previous gynecological surgery? 	 → When was the last cervical smear? Normal? Abnormal? Treatment undertaken if any? → Pap smear? → Should do it every 3 years
Past Medical & Surgical History	 → Relevant medical problems. → Any previous operations? Type of anesthetic used, any complications? 	→ Scars → adhesions → weak uterus → may rupture during contraction → go with CS.
Psychiatric History	→ Postpartum blues?→ Postpartum depression?	 → Depression unrelated to pregnancy? → Major psychiatric illness?
Family History	 → Diabetes → Hypertension → Thromboembolic disease 	 → Genetic problems → Psychiatric problems
Social History	→ Smoking→ Illegal drug used	 → Marital status → Occupation
Drug History	\rightarrow Ask about heparin and aspirin in cases o	f bleeding.
Allergies		
Summary		

Obstetric Physical Examination

1. General Examination:

- \rightarrow Weight
- → Height
- \rightarrow BMI = weight (kg) / height (m²)
- \rightarrow Vital signs (blood pressure pulse rate respiratory rate temperature).
- → Cardiovascular examination: if asymptomatic with no cardiac history → routine auscultation is unnecessary.
- \rightarrow Breast examination:
 - \rightarrow Formal breast examination \rightarrow unnecessary.
 - \rightarrow Self examination \rightarrow as reliable as a general physician examination in detecting breast masses.

2. Abdominal Examination:

Vocabulary:

- → Lie: longitudinal axis of uterus to longitudinal axis of fetus (longitudinal transverse oblique).
- \rightarrow **Presentation:** the fetus part that overlays pelvic brim (vertex breech shoulder).
- → **Engagement:** when the widest part of presenting part has passed successfully through pelvic inlet.

Inspection:

- \rightarrow Assess shape of the uterus.
- \rightarrow Asymmetry.
- \rightarrow Fetal movement.
- \rightarrow Surgical scars.
- \rightarrow Cutaneous signs of pregnancy.
- \rightarrow Linea nigra.
- → Striae gravidarum.
- \rightarrow Striae albicans.
- \rightarrow Flat or everted umbilicus.
- \rightarrow Superficial veins.

Palpation: ask about areas of tenderness before start the examination.

- \rightarrow **Gestation weeks:** uterine size "symphysis \rightarrow fundal height in cm".
- → **12-14 weeks:** just palpable.
- → **20-22 weeks:** at the umbilicus.

LEOPOLD Maneuvers:

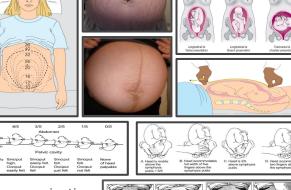
- \rightarrow **Fundal Grip Maneuver:** palpate **fundus** \rightarrow determine the part of fetus that occupies fundus.
- \rightarrow Lateral Grip Maneuver: palpate either side of abdomen \rightarrow determine side of fetal back.
- → **Pawlick's Grip Maneuver:** grasping **presenting part** between thumb & 3rd finger just **above the pubic symphysis** → determine fetal part lying above pelvic inlet or lower abdomen.
- → **Pelvic Grip Maneuver:** palpating fetus' **brow and occiput** → determine fetal position in a vertex presentation.

Descent of the Fetal Head:

- \rightarrow Assessed abdominally using the rule of fifth \rightarrow assess the engagement.
- → Engagement: assess how much of the head is still felt per abdomen
 - \rightarrow 2/5 or less of fetal head palpated above symphysis publis level \rightarrow vertex is at or passed ischial spines level \rightarrow head is engaged.

Auscultation:

 \rightarrow Listening for fetal heartbeat.





3. Lower Limb Examination:

- → Swelling (edema)
- → Varicosities

4. Pelvic Examination:

- \rightarrow Routine pelvic examination is **not necessary**.
- → Mostly a **speculum examination** is enough, sometimes vaginal examination is necessary.
- → Circumstances in which a **vaginal examination** is necessary:
 - \rightarrow Excessive or offensive discharge.
 - → Vaginal bleeding (known **absence of a placenta previa**).
 - \rightarrow To perform cervical screen.
 - \rightarrow To confirm potential rupture of membrane.
- → **Digital examination** may be performed when cervix assessment is required → provide information about cervix consistency and effacement (not obtainable from a speculum examination).
 - $\rightarrow~$ Use Modified Bishop Score.
 - کل ما کبر الرقم کل ما کان مناسب نولدہا 🔶
 - $\rightarrow~$ Contraindication to digital examination:
 - \rightarrow Known placenta previa.
 - \rightarrow Vaginal bleeding when placental site is unknown and the presenting part unengaged.
 - \rightarrow Prelabor rupture of the membranes (\uparrow risk of ascending infection).

Score	Cervical Dilation	Cervical Effacement	Station of Baby	Cervical Posi- tion	Cervical Consistency
0	closed	0-30%	-3	posterior	firm
1	1-2cm	40-50%	-2	mid-line	moderately firm
2	3-4cm	60-70%	-1,0	anterior	soft (ripe)
3	5+ cm	80+%	+1, +2		

Subtract 1 point off overall score do postdate pregnancy, no prior births, premature or prolonged rupture of membranes (water breaking).

A score of 5 or less is said to be "unfavorable." Unfavorable scoring shows mother is a candidate for cervical ripening prior to induction. A score of 6 or higher would indicate that the cervix is ripe and induction would have a higher probability of being successful. A score of 9 or higher indicates a very high probability of induction being successful.

Modified Bishop Score, the doctor covered the text below the table in her slides. However, I kept it for reference.

Steps of Obstetric History:

- \rightarrow General information
- \rightarrow History of present complaint (pelvic pain vaginal discharge).
- \rightarrow Menstrual history
- \rightarrow Previous gynecological history
- \rightarrow Previous obstetrics history
- → Enquiry about other systems (appetite weight loss/gain bowel function bladder function)
- → Past medical and surgical history
- \rightarrow Psychiatric history
- → Family history
- \rightarrow Social history
- → Drug history
- \rightarrow Allergies
- \rightarrow Summary

1. General Information:

→ Name

- \rightarrow Age
- \rightarrow Main complaints

2. History of Present Complaint:

 \rightarrow Ask detailed questions relating to each complaint.

Pelvic Pain	Vaginal Discharge
 → Site of pain? → Nature of pain? → Pain severity? → What aggravates or relieves the pain? → Relationship to menstrual cycle and intercourse? → Does the pain radiate anywhere? → Associated with bowel or bladder function? 	 → Amount? → Colour? → Odour? → Presence of blood? → Relationship to menstrual cycle? → History of sexually transmitted disease or recent tests? → Any vaginal dryness?

Gynecological History

3. Menstrual History:

- \rightarrow Age of menarche?
- → Usual duration of each period?
- \rightarrow Length of cycle?
- \rightarrow First day of the last period?
- → **Pattern of the bleeding:** regular or irregular?
- → **Amount of blood loss:** more or less than usual? number of sanitary towels or tampons used? passage of clots or flooding?
- → Any intermenstrual or postcoital bleeding?
- \rightarrow Any pain relating to the period, its severity and timing of onset?
- \rightarrow Any medication taken during the period?

4. Previous Gynecological History:

- → Previous treatment and surgery?
- → Date of the last cervical smear and any previous abnormalities?
- → Sexual active? difficulties or pain during intercourse?
- \rightarrow The type of contraception used and any problem with it?
 - \rightarrow Hormonal contraceptives during early pregnancy \rightarrow birth defects.
 - \rightarrow Retained intrauterine devices (IUDs) \rightarrow early pregnancy loss infection premature delivery.
- → **Menopause:** Date of last period? Post menopausal bleeding? Menopausal symptoms?

5. Previous Obstetrics History:

→ Outcome & details of previous pregnancies?

6. Enquiry About Other Systems:

- \rightarrow Appetite
- → Weight loss/gain
- \rightarrow Bowel function
- → Bladder function

7. Past Medical & Surgical History:

- $\rightarrow~$ Diabetes mellitus \rightarrow affect pregnancy outcome.
- \rightarrow Hypertension \rightarrow affect pregnancy outcome.
- → Renal disease → affect pregnancy outcome.
- \rightarrow Fractured pelvis \rightarrow diminished pelvic capacity.

Gynecological History

8. Psychiatric History:

9. Family History:

- \rightarrow Tumors
- \rightarrow Diabetes
- \rightarrow Hypertension
- \rightarrow Thromboembolic disease
- \rightarrow Genetic problems
- \rightarrow Psychiatric problems

10. Social History:

→ The patient's contact or exposure to domesticated animals. → Cats → risk of toxoplasmosis.

11. Drug History:

12. Allergies

Summary

Gynecological History Summary

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General Information	\rightarrow Name \rightarrow Age	→ Main complaints		
	→ Ask detailed questions relating to each complaint.			
	Pelvic Pain	Vaginal Discharge		
History of Present Complaint	 → Site of pain? Nature of pain? Pain severity? → What aggravates or relieves the pain? → Relationship to menstrual cycle and intercourse? → Does the pain radiate anywhere? → Associated with bowel / bladder function? 	 → Amount? Colour? Odour? → Presence of blood? → Relationship to menstrual cycle? → History of sexually transmitted disease or recent tests? → Any vaginal dryness? 		
Menstrual History	 → Age of menarche? → Usual duration of each period? → Length of cycle? → First day of the last period? → Bleeding pattern: regular or irregular? → Intermenstrual or postcoital bleeding? 	 → Amount of blood loss: more or less than usual? number of sanitary towels or tampons used? passage of clots or flooding? → Any pain relating to the period, its severity and timing of onset? → Any medication taken during the period? 		
Previous Gynecological History	 → Previous treatment and surgery? → Sexually active? difficulties or pain during intercourse? → Menopause: Date of last period? Post menopausal bleeding? Menopausal Sx? 	 → The type of contraception used and any problem with it? → Hormonal contraceptives during early pregnancy → birth defects. → Retained intrauterine devices (IUDs) → early pregnancy loss - infection - premature delivery. 		
Obstetrics History	→ Outcome & details of previous pregnancies?			
Enquiry About Other Systems				
Past Medical & Surgical History	 → DM → affect pregnancy outcome. → Renal disease → affect pregnancy outcome. 	 → HTN → affect pregnancy outcome. → Fractured pelvis → diminished pelvic capacity. 		
Psychiatric History				
Family History	$\begin{array}{l} \rightarrow \text{Tumors} \\ \rightarrow \text{Diabetes} \\ \rightarrow \text{Hypertension} \end{array}$	 → Thromboembolic disease → Genetic problems → Psychiatric problems 		
Social History	 → The patient's contact or exposure to domesticated animals. → Cats → risk of toxoplasmosis. 			
Drug History				
Allergies				
Summary				

Gynecological Physical Examination

1. General Examination:

- \rightarrow Weight
- → Height
- \rightarrow BMI = weight (kg) / height (m²)
- \rightarrow Vital signs (blood pressure pulse rate respiratory rate temperature).
- \rightarrow Hands
- \rightarrow Mucous membrane
- \rightarrow Supraclavicular area
- \rightarrow Thyroid
- \rightarrow Chest (CVS Respiratory)
- → Breast: only if there's a compliant.

2. Abdominal Examination:

Inspection:

- \rightarrow Distension.
- \rightarrow Masses.
- \rightarrow Hernia.
- \rightarrow Surgical scars.
- \rightarrow Asymmetry.
- \rightarrow Superficial veins.

Palpation: ask about areas of tenderness before start the examination.

- \rightarrow Guarding.
- \rightarrow Tenderness.
- \rightarrow Masses.

Percussion:

 \rightarrow Useful if free fluid is suspected.

Auscultation:

- \rightarrow Not specifically useful for gynecological examination.
- $\rightarrow~$ Acute abdomen with bowel obstruction \rightarrow listen for bowel sounds.
- \rightarrow Postoperative patient with ileus \rightarrow listen for bowel sounds.

Gynecological Physical Examination

3. Pelvic Examination:

- \rightarrow Not indicated in all pregnant women
- $\rightarrow~$ Undiagnosed vaginal bleeding \rightarrow vaginal examination is contraindicated.

Inspection:

→ External genitalia and surrounding skin.

Speculum (bivalve - cusco):

- \rightarrow Types of cervical os:
 - → **Nulliparous os:** small round dimple.
 - → **Multiparous os:** smile shaped.
- \rightarrow **Colour:** pink.
- → **Cervical ectropion:** an area around the os, normally redder than the pink os.
 - $\rightarrow~$ Tinged blue \rightarrow pregnant.
 - \rightarrow Red \rightarrow cervicitis.
- → Secretions / discharge:
 - \rightarrow Cervical mucus \rightarrow ovulation.
 - \rightarrow Blood \rightarrow menstruation.
- \rightarrow Presence of growths / tumours (usually cauliflower-like and friable).
 - \rightarrow Cauliflower-like and friable.
 - \rightarrow Bleeds on touch \rightarrow malignancy (*most likely*).
- \rightarrow Ulcerations scars nabothian follicles (retention cysts).
- → Cervical/pap smear is taken at this stage.

4. Rectal / Bimanual Examination:

\rightarrow Bimanual examination:

- → Provides information about the uterus and adnexa (fallopian tubes and ovaries).
- \rightarrow Urinary bladder should be empty, if not \rightarrow internal genitalia will be difficult to delineate + uncomfortable procedure.
- → **Rectal examination:** used as alternative to a vaginal examination in children and not sexually active adults.





439 Doctor's Clinical Notes

History:

- \rightarrow When presenting a case make sure that the first sentence consists of 4 components:
 - \rightarrow Age
 - \rightarrow Gravidity and Parity
 - \rightarrow LMP
 - \rightarrow Chief complaint (in her own words)
- → Start presenting HPI and dissect each symptom.

Pregnancy:

- → Associated symptoms (N/V vaginal bleeding tiredness ...)
- \rightarrow Details of pregnancy test.

Vaginal Bleeding:

- \rightarrow Duration (since when?)
- $\rightarrow~$ How long does it last
- \rightarrow Amount
- \rightarrow Color
- \rightarrow Aggravating/relieving factors (sexual intercourse physical activity -...)
- → Associated symptoms (pain contractions discharge reduced fetal movement ...)

Vomiting:

- \rightarrow Duration
- → **Amount:** how many times did you vomit?
- → What can you tolerate orally? (solids / fluids) "asses dehydration".
- \rightarrow Associated symptoms.

Absent Fetal Movement:

- \rightarrow Since when?
- \rightarrow How often do you feel it?
- \rightarrow Medication history?
- \rightarrow Related to position?

Pelvic Pain "SOCRATES":

"mostly asymptomatic, a little nausea, no vomiting"

438 Doctor's Clinical Notes

History:

"A 34 year old lady, G2P2, LMP was 7 weeks ago. she thinks that she's pregnant"

- → Details about each pregnancy (spontaneous or assisted) and delivery:
 - → **G1:** spontaneous vaginal delivery (SVD), at term, healthy baby, no complications
 - → G2: caesarean section (C/S) for breech, at term, no complications
 - → **G3:** current pregnancy

\rightarrow Common complications:

- \rightarrow Preterm
- \rightarrow PROM
- \rightarrow Chorioamnionitis
- → Instrumental delivery
- \rightarrow PPH
- → Inquire details about the cause (reversible/ irreversible) + type of incision (upper / lower segment) of C/S → decide whether or not VBAC is applicable for this pregnancy.

Medical History:

- → **OB relevant medical conditions:** DM HTN hypothyroidism epilepsy autoimmune diseases DVT.
 - → "She is medically free".
 - \rightarrow "She is a diabetic for 7 years, on insulin, controlled".

Surgical History:

- → Gynecological (C/S myomectomy cerclage D&C ...)
 - → "Not significant except for one c/s"
- \rightarrow Abdominal surgeries

Gynecological History:

- → When you present obstetric case, mention gynecological history after medical and surgical history, and when you present gynecological case, mention obstetric history after medical and surgical.
 - $\rightarrow LMP$
 - \rightarrow Regularity (every month)
 - → How many days does last?
 - \rightarrow Severity
 - \rightarrow How many pads/day?
 - → Associated symptoms (dysmenorrhea menorrhagia -...)
 - \rightarrow Contraception methods
 - \rightarrow Last pap smear (ask more if abnormal, advice to repeat if +3 years ago)
- \rightarrow You can either say insignificant if it was regular or say the full history.
 - → "Her menstrual cycle is regular, monthly every 28 30 days, last for 7 days, she used contraception and stopped one year ago, her latest pap smear was normal 2 years ago"

Medications & Allergies:

- \rightarrow To look for teratogenic medications
 - → "No medications except for contraception which she stopped a year ago, no known allergies"

Social History:

- → Marital status
- → Socioeconomic status
- \rightarrow Smoking
- \rightarrow Alcohol
- \rightarrow Substance abuse
- \rightarrow Diet
- \rightarrow Activity
- → Family history

Quiz

Question 1:

- → In the booking clinic, you had a patient history is P4+0. which of the following describes her obstetric history?
 - A. She has 4 vaginal deliveries
 - B. She has 4 living children
 - C. She has 4 full term deliveries
 - D. She has 4 deliveries beyond 24 weeks

Question 2:

\rightarrow 28-March-2021, calculate EDD:

- A. 5/1/2022
- B. 4/1/2021
- C. 5/1/2021
- D. 2/1/2021

Question 3:

- → While taking an obstetrical history, you told your consultant that your patient is gravida 3, what does gravidity mean?
 - A. Number of her living child
 - B. Number of term deliveries
 - C. Number of all pregnancies
 - D. Number of abortions

Question 4:

- → A 29-year-old woman with 10 weeks amenorrhea and a positive pregnancy test. Her past obstetric history revealed that she had 5 full term vaginal deliveries. one preterm delivery at 30 weeks. One first trimester abortion and one ectopic pregnancy. Which one of the following describes her Gravidity and parity?
 - A. G9P5+2
 - B. G5P5 +1
 - C. G7P5 +2
 - D. G5P5 +2

А	C	А	D
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Reference



Clinical Approach to the Patient

IOSEPH C. GAMBONE

ICAL KEYS FOR THIS CHAPTER

- The clinical approach to obstetric and gynecologic patients requires sensitivity and an understanding that medical issues related to birth and reproductive care require a trusting relationship between a woman and her obstetrician and gynecologist as well as all health care professionals that she may encounter.
 Recent changes in the acceptance of sexual roles in society mean that a nonjudgmental approach is needed. The physician should be careful not to assume that a careful any to act overly familiar approach is always acceptable to all patients, especially older ones.
 The obstetric history and physical examination should be complete and carefully performed with the goal of

A careful history and physical examination should form the basis for patient evaluation and clinical man-agement in obstetrics and gynecology, as in other clini-cal disciplines. This chapter outlines the essential details of the clinical approach to, and evaluation of, the obstetric and gynecologic patient. The clinical approach to female patients has evolved in recent years (see Chapter 28). It is important for the clinical who cares for women to refrain from making value judg-ments about sexual preferences and behavior, unless they are clearly unhealthy or dangerous. Some patients may have special needs in terms of their clinical care, and an accepting and understanding attitude is impor-tant. Pediatric and adolescent patients, the geriatric patient, as well as women with disabilities, also have unique gynecologic and reproductive needs and this chapter concludes with information about their evalu-ation and management. tion and management

providing care that results in the best clinical outcomes for the mother and her child. The gynecologic encounter may be for routine preven-tive care or may be to address a specific clinical problem that a woman may be having. Reproductive matters are of most interest during the early adult years. Concerns about chronic disorders typically arise later in life during the pre- and postmenopausal years. The physician and all health care professionals should be aware that certain groups of women, such as the pediat-ric, geriatric, and disabled, have special needs and con-cerns. Women who are in same-sex relationships and transgender women may also have special needs.

Obstetric and Gynecologic Evaluation

Evaluation In few areas of medicine is it necessary to be more sensitive to the emotional and psychological needs of the patient than in obstetrics and gynecology. By their yery nature, the history and physical examination may cause embarrassment to some patients. The members of the medical care team are individually and collec-tively responsible for ensuring that each patient's privacy and modesty are respected while providing the highest level of medical care. **Box 2-1** lists the appropri-ate steps for the clinical approach to the patient. While a casual and familiar approach may be accept-able to many younger patients, it may offend others and be quite inappropriate for many older patients. Different circumstances with the same patient may dictate different levels of formality. Entrance to the

BOX 2-1 APPROACH TO THE PATIENT

- APPROACH TO THE PATIENT The doctor should always: Knock before entering the patient's room. I dentify himself/herself. Meet the patient initially when she is fully dressed, if possible. Address the patient courteously and respectfully. Respect the patient's privacy and modesty during the interview and examination. Ensure cleanliness, eood erooming, and eood manners
- interview and examination. Ensure cleanliness, good grooming, and good manners in all patient encounters. Beware that a casual and familiar approach is not acceptable to all patients; it is generally best to avoid addressing an adult patient by her first name. Maintain the privacy of the patient's medical informa-.
- tion and records. Be mindful and respectful of any cultural preferences.

patient's room should be announced by a knock and spoken identification. A personal introduction with the stated reason for the visit should occur before any questions are asked or an examination is begun. The placement of the examination table should always be in a position that maximizes privacy for the patient as other health care professionals enter the room. Any cultural beliefs and preferences for care and treatment should be recognized and respected.

Obstetric History

A complete history must be recorded at the time of the prepregnancy evaluation or at the initial antenatal visit. Several detailed standardized forms are available, but this should not negate the need for a detailed chronologic history taken personally by the physician who will be caring for the patient throughout her preg-nancy. While taking the history, major opportunities will usually arise to provide counseling and explana-tions that serve to establish rapport and a supportive natient/invisician encounter. patient/physician encounter

PREVIOUS PREGNANCIES

- PREVIOUS PRECNANCIES
 Each prior pregnancy should be reviewed in chronologic order and the following information recorded:

 Date of delivery (or pregnancy termination).
 Duration of gestation (recorded in weeks). When correlated with birth weight, this information allows an assessment of fetal growth patterns. The gestational age of any spontaneous abortion is of importance in any subsequent pregnancy.
 Type of delivery (or method of terminating pregnancy). This information is important for planning

SURGICAL HISTORY

Each surgical procedure should be recorded chrono-logically, including date, hospital, surgeon, and com-plications. Trauma must also be listed (e.g., a fractured pelvis may result in diminished pelvic capacity).

SOCIAL HISTORY

Social HISTORY Habits such as smoking, alcohol use, and other sub-stance abuse are important factors that must be recorded and managed appropriately. The patient's contact or exposure to domesticated animals, particu-larly cats (which carry a risk of toxoplasmosis), is important

The patient's type of work and lifestyle may affect The patients type of work and mestyle may affect the pregnancy. Exposure to solvents (carbon tetrachlo-ride) or insulators (polychlorobromine compounds) in the workplace may lead to teratogenesis or hepatic toxicity.

Obstetric Physical Examination GENERAL PHYSICAL EXAMINATION

This procedure must be systematic and thorough and

performed as early as possible in the prenatal period. A complete physical examination provides an opportunity to detect previously unrecognized abnormalities. Normal baseline levels must also be established, par-ticularly those of weight, blood pressure, funduscopic (retina) appearance, and cardiac status.

PELVIC EXAMINATION

PELVIC EXAMINATION The initial pelvic examination should be done early in the prenatal period and should include the following: (1) inspection of the external genitalia, vagina, and cervix; (2) collection of cytologic specimens from the exocervix (or ectocervix) and superficial endocervical canal; and (3) palpation of the cervix, uterus, and adnexa. The initial estimate of gestational age by uterine size becomes less accurate as pregnancy pro-gresses. Rectal and rectovaginal examinations are also important aspects of this initial pelvic evaluation.

CLINICAL PELVIMETRY

CLINICAL PELVIMETRY This assessment, which is helpful for predicting poten-tial problems during labor, should be carried out fol-lowing the bimanual pelvic examination and before the rectal examination. It is important that clinical pelvim-etry be carried out systematically. The details of clinical pelvimetry are described in Chapter 8.

Diagnosis of Pregnancy

The diagnosis of pregnancy and its location, based on physical signs and examination alone, may be quite

challenging during the early weeks after a missed menses. Urine pregnancy tests in the office are reliable a few days after the first missed period, and office ultra-sonography is used increasingly as a routine.

SYMPTOMS OF PREGNANCY

SYMPTOMS OF PRECNANCY The most common symptoms in the early months of pregnancy are missed menses, urinary frequency, breast engorgement, nausea, tiredness, and easy fati-gability. A missed or abnormal menses in a previously normally menstruating, sexually active woman should be considered to be caused by pregnancy until proven otherwise. Urinary frequency is most likely caused by the pressure of the enlarged uterus on the bladder.

SIGNS OF PREGNANCY

The signs of pregnancy may be divided into presump-tive, probable, and positive.

Presumptive Signs

Presumptive Signs The presumptive signs are primarily those associated with skin and mucous membrane changes. Discolor-ation and cyanosis of the vulva, vagina, and cervix are related to the generalized engorgement of the pelvic organs and are, therefore, nonspecific. The dark discol-oration of the vulva and vaginal walls is known as **Chadwick sign**. Pigmentation of the skin and abdomi-nal striae are nonspecific and unreliable signs. The most common sites for pigmentation are the midline of the lower abdomen (linea nigra), over the bridge of the nose, and under the eyes. Pigmentation under the the nose, and under the eyes. Pigmentation under the eyes is called chloasma or the mask of pregnancy. Chlo-asma is also an occasional side effect of hormonal contraceptives.

Probable Signs

Probable Signs The probable signs of pregnancy are those mainly related to the detectable physical changes in the uterus. During early pregnancy, the uterus changes in size, shape, and consistency. Early uterine enlargement tends to be in the anteroposterior diameter so that the uterus becomes globular. In addition, because of asym-metric implantation of the ovum, one cornu of the uterus may enlarge slightly (Piskagek sign). Uterine consistency becomes softer, and it may be possible to palpate or to compress the connection between the cervix and fundus. This change is referred to as Hegar sign. The cervix also begins to soften early in pregnancy. pregnancy

Positive Signs

Positive Signs The positive signs of pregnancy include the detection of a fetal heartbeat and the recognition of fetal move-ments. Endovaginal ultrasound is capable of detecting fetal cardiac activity as early as 6 weeks (from last menses) and fetal movement from about 7 to 8 weeks' gestation. Modern Doppler techniques for detecting

the fetal heartbeat may be successful as early as 9 weeks and are nearly always positive by 12 weeks. Fetal heart tones can usually be detected with a stethoscope between 16 and 20 weeks. The multiparous woman generally recognizes fetal movements between 15 and 17 weeks, whereas the primigravida usually does not recognize fetal movements until 18 to 20 weeks.

Pregnancy Tests Tests to detect pregnancy have revolutionized early diagnosis. Although they are considered a probable sign of pregnancy, the accuracy of these tests is very good. All commonly used methods depend on the detection of human chorionic gonadotropin (hCG) or its β subunit in urine or serum. Depending on the spe-cific sensitivity of the test, pregnancy may be suspected even prior to a missed menstrual period.

Diagnostic Ultrasonography

The imaging technique of ultrasonography has made a significant contribution to the diagnosis and evalua-tion of pregnancy. Using real-time ultrasonography, an intrauterine gestational sac can be identified at 5 men-strual weeks (21st postovulatory day) and a fetal image can be detected by 5 to 6 weeks. A beating heart is noted at 7 weeks or even sooner with the latest equipmer

Gynecologic History

Gynecologic history-taking must be systematic to avoid omissions, and it should be conducted with sensitivity and without haste.

PRESENT ILLNESS

The patient is asked to state her main complaint and The patient is asked to state her main complaint and to relate her present illness, sequentially, in her own words. Pertinent negative information should be recorded, and, as much as possible, questions should be reserved until after the patient has described the course of her illness. Generally, the history provides substantial clues to the diagnosis, so it is important to evaluate fully the more common symptoms encoun-tered in gynecologic patients.

Abnormal Vaginal Bleeding

Abnormal Vaginal Bleeding Vaginal bleeding before the age of 9 years and after the age of 52 years is cause for concern and requires inves-tigation. These are the general limits of normal men-struation, and although the occasional woman may menstruate regularly and normally up to the age of 57 or 58 years, it is important to ensure that she is not bleeding from uterine cancer or from exogenous estro-gens. Prolongation of menses beyond 7 days or bleed-ing between menses may connote abnormal ovarian function, uterine myomata, or endometriosis.

the method of delivery in the present pregnancy. A difficult forceps delivery or a cesarean delivery may require a personal review of the labor and delivery records. ords.

- Duration of labor (recorded in hours). This may 5. alert the physician to the possibility of an unusu-ally long or short labor.
- Type of anesthesia. Any complications of anesthe
- Type of antestnessia. Any complications of antestness sia should be noted. Maternal complications. Urinary tract infections, vaginal bleeding, hypertension, and postpartum complications may be repetitive; such knowledge is helpful in anticipating and preventing problems 7.
- 8.
- is helpful in anticipating and preventing problems with the present pregnancy. Newborn weight (in grams or pounds and ounces). This information may give indications of gesta-tional diabetes, fetal growth problems, shoulder dystocia, or cephalopelvic disproportion. Newborn gender. This may provide insight into patient and family expectations and may indicate certain genetic risk factors. Fetal and neonatal complications. Certain ques-tions should be asked to elicit any problems and to determine the need to obtain further information. Inquiry should be made as to whether the baby had any problems after it was born, whether the baby breathed and cried right away, and whether the baby left the hospital with the mother. 10.

MENSTRUAL HISTORY

MENSTRUAL HISTORY A good menstrual history is essential because it is the determinant for establishing the expected date of con-finement (EDC). A modification of Nägele rule for establishing the EDC is to add 9 months and 7 days to the first day of the last normal menstrual period (LMP). For example:

For example: LMP: July 20, 2015 EDC: April 27, 2016 This calculation assumes a normal 28-day cycle, and adjustments must be made for longer or shorter cycles. Any bleeding or spotting since the last normal men-strual period should be reviewed in detail and taken into account when calculating an EDC.

CONTRACEPTIVE HISTORY

This information is important for risk assessment. Hor-monal contraceptives taken during early pregnancy have been associated with birth defects, and retained intrauterine devices (IUDs) can cause early pregnancy loss, infection, and premature delivery.

MEDICAL HISTORY

The importance of a good medical history cannot be overemphasized. In addition to common disorders, such as diabetes mellitus, hypertension, and renal disease, which are known to affect pregnancy outcome, all serious medical conditions should be recorded.

Abdominal Pain

Abdominal Pain Many gynecologic problems are associated with abdominal pain. The common gynecologic causes of acute lower abdominal pain are salpingo-oophoritis with peritoneal inflammation, torsion and infarction of an ovarian cyst, endometriosis, or rupture of an ectopic pregnancy. Patterns of pain radiation should be recorded and may provide an important diagnostic clue. Chronic lower abdominal pain is generally associ-ated with endometriosis, chronic pelvic inflammatory disease, or large pelvic tumors. It may also be the first symptom of ovarian cancer.

Amenorrhea

Amenorthea The most common causes of amenorthea are preg-nancy and the normal menopause. It is abnormal for a young woman to reach the age of 16 without menstru-ating (primary amenorthea). Pregnancy should be sus-pected in a woman between 15 and 45 years of age who fails to menstruate within 35 days from the first day of her last menstruation. In a patient with amenorthea who is not pregnant, inquiry should be made about menopausal or climacteric symptoms such as hot flashes, vaginal dryness, or mild depression.

Other Symptoms

Other pertinent symptoms of concern include dys-menorrhea, premenstrual tension, fluid retention, leukorrhea, constipation, dyschezia, dyspareunia, and abdominal distention. Lower back and sacral pain may indicate uterine prolapse, enterocele, or recto

MENSTRUAL HISTORY

MENSTRUAL HISTORY The menstrual history should include the age at men-arche (average is 12 to 13 years), interval between periods (21 to 35 days with a median of 28 days), dura-tion of menses (average is 5 days), and character of the flow (scant, normal, heavy, usually without clots). Any interespective. In hording (contemptication, about do intermenstrual bleeding (metrorrhagia) should be noted. The date of onset of the LMP and the date of the previous menstrual period should be recorded. Inquiry should be made regarding menstrual cramps (dysmenarothe time to time to get at onset, severity, and char-acter of the cramps should be recorded, together with an estimate of the disability incurred. Midcycle pain (*mittelschmerz*) and a midcycle increase in vaginal secretions are usually indicative of ovulatory cycles.

CONTRACEPTIVE HISTORY

ContractPrive history The type and duration of each contraceptive method must be recorded, along with any attendant compli-cations. These may include amenorthea or throm-boembolic disease with hormonal contraceptives; dysmenorrhea, heavy bleeding (menorrhagia), or pelvic infection with the intrauterine device; or contraceptive failure with the diaphragm, or other barrier method.

LABORATORY TESTS FOR PREGNANCY Pregnancy Tests

Reference

OBSTETRIC HISTORY

Each pregnancy, delivery, and any associated compli-cations should be listed sequentially with relevant details and dates.

SEXUAL HISTORY

SEAUAL HISTORY The health of, and current relationship with, the husband or partner(s) may provide insight into the present complaints. Inquiry should be made regarding any pain (dyspareunia), bleeding, or dysuria associated with sexual intercourse. Sexual satisfaction should be discussed tactfully.

PAST HISTORY

As in the obstetric history, any significant past medical or surgical history should be recorded, as should the patient's family history. A list of current medications is important ortant

SYSTEMIC REVIEW

A review of all other organ systems should be under-taken. Habits (tobacco, alcohol, other substance abuse), medications, usual weight with recent changes, and loss of height (osteoporosis) are important parts of the octentic totake and the state of the state of the state octentic totake and the state of the state octentic totake and the state of the state octentic totake and the state of the state of the state octentic totake and the state octentic totake and the state of the state octentic totake and the state of the state octentic totake and the state and the state octentic totake and the state octentic totake the systemic revi

Gynecologic Physical Examination

GENERAL PHYSICAL EXAMINATION

A complete physical examination should be performed on each new patient and repeated at least annually. The initial examination should include the patient's height, weight, and arm span (in adolescent patients or those weight, and arm span (in adolescent patients or those with endocrine problems) and should be carried out with the patient completely disrobed but suitably draped. A body mass index (BMI) should be calculated (Box 2-2) and recorded. The examination should be systematic and should include the following points.

Vital Signs

Temperature, pulse rate, respiratory rate, and blood pressure should be recorded.

BOX 2-2 CALCULATIONS AND DESIGNATIONS OF BO MASS INDEX

MASS INDEX Body mass index is calculated by dividing weight in klo-grams (kg) by height in meters squared or weight in pounds by height in inches squared times 703. Less than 18.5 = underweight 18.5 to 25.9 = overweight 30 to 34.9 = overweight 35 to 33.9 = class no obesity 40 or greater = extreme obesity

- Data from the National Heart, Lung, and Blood Institute

General Appearance The patient's body build, posture, state of nutrition, demeanor, and state of well-being should be recorded. Head and Neck

Evidence of supraclavicular lymphadenopathy, oral lesions, webbing of the neck, or goiter may be pertinent to the gynecologic assessment.

Breasts The breast examination is particularly important in gynecologic patients (see Chapters 30 and 32).

Heart and Lungs

Examination of the heart and lungs is of importance, particularly in a patient who requires surgery. The pres-ence of a pleural effusion may be indicative of a dis-seminated malignancy, particularly ovarian cancer.

Abdomen

Examination of the abdomen is critical in the evalua-

Examination of the abdomen is critical in the evalua-tion of the gynecologic patient. The contour, whether flat, scaphoid, or protuberant, should be noted. The protuberant appearance may suggest ascites. The pres-ence and distribution of hair, especially in the area of the escutcheon, should be recorded, as should the presence of striae or operative scars. **Abdominal tenderness must be determined by placing one hand flat against the abdomen in the enomainful areas initially**, then gently and gradually exerting pressure with the fingers of the other hand (Figure 2-1). Rebound tenderness (a sign of peritoneal irritation), muscle guarding, and abdominal rigidity should be gently elicited, again first in the nontender should be gently elicited, again first in the nontender areas. A "doughy" abdomen, in which the guarding areas. A



FIGURE 2-1 The abdomen is palpated by placing the left palm flat against the abdominal wall and then gently exerting pressure with the fingers of the right hand.

increases gradually as the pressure of palpation is increased, is often seen with a hemoperitoneum. It is important to palpate any abdominal mass. The size should be specifically noted. Other characteristics may be even more important in suggesting the diagno-sis, such as whether the mass is cysic or solid, smooth or nodular, fixed or mobile, and whether it is associated or nodular, hxed or mobile, and whether it is associated with ascites. In determining the reason for abdominal distention (tumor, ascites, or distended bowel), it is important to percuss carefully the areas of tympany (gaseous distention) and dullness. A large tumor is gen-erally dull on top with loops of bowel displaced to the flanks. Dullness that shifts as the patient tumos not her side (shifting dullness) is suggestive of ascites.

Back

Abnormal curvature of the vertebral column (dorsal Anonoma curvature of the verteoral column (dorsal kyphosis or scollosis) is an important observation in evaluating osteoporosis in a postmenopausal woman. Costovertebral angle tenderness suggests pyelonephritis, whereas poas muscle spasm, which is associated with flexion of the hip, may occur with gynecologic infections, malignant infiltration, or acute appendicitis.

Extremities

The presence or absence of varicosities, edema, pedal pulsations, and cutaneous lesions may suggest patho-logic conditions within the pelvis. The height of pitting edema should be noted (e.g., ankle, shin, to the knee, or above).

PELVIC EXAMINATION

The pelvic examination must be conducted systemati-cally and with careful sensitivity. The procedure should be performed with smooth and genule movements and accompanied by reasonable explanations.

Vulva

Vulva The character and distribution of hair, the degree of development or atrophy of the labia, and the character of the hymen (imperforate or cribriform) and introitus (virginal, multiparous), or multiparous) should be noted. Any clitorimegaly should be noted, as should the pres-ence of cysts, tumors, or inflammation of the **Bartho-lin gland**. The urethra and **Skene glands** should be inspected for any purulent exudates. The labia should be inspected for any inflammatory dystrophic, or neo-plastic lesions. Perineal relaxation and scarring should be ented because they may cause dyspareunia and defects in anal sphincter tone. The urethra should be "miked" for any inflammatory exudates, which if found should be cultured for pathologic organisms.

Speculum Examination

It is important to use an appropriately sized speculum (Figure 2-2), which should be warmed and lubri-

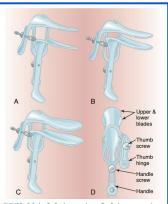


FIGURE 2-2 A, Pediatric speculum. B, Pederson speculum. C, Graves speculum. The Pederson speculum has narrower blades and is more appropriate for examining a nulliparous patient. D, Parts of a speculum.

D, Parto of a speculum.
cated with warm water only, so as not to interfere with the examination of cervical cytology or any vaginal exudate. After gently spreading the labia to expose the introitus, the speculum should be inserted with the blades entering the introitus transversely, then directed posterioly in the axis of the vagina with pressure exerted against the relatively insensitive perineum to avoid contacting the sensitive urethra. As the anterior blade reaches the cervix, the speculum is opened to bring the cervix into view (Figure 2-3). As the vaginal epithelium is inspected, it is important to rotate the speculum through 90 degrees, so that lesions on the anterior or posterior walls of the vagina ordinarily covered by the blades of the speculum are not over-looked. Vaginal wall relaxation should be evaluated a bivalve speculum. The patient is casked to bear down (Valsalva maneuver) or to cough to demonstrate any stress incontinence. If the patient's compliant involves urinary stress or urgency, this portion of the examina-tion should be carried out before the bladder is emptied.

The cervix should be inspected to determine its size. shape, and color. The nulliparous patient generally has a conical, unscarred cervix with a circular, centrally placed os; the multiparous cervix is generally bulbous

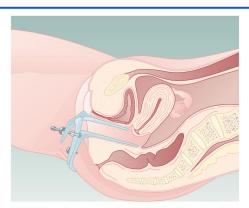
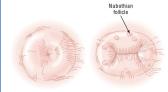


FIGURE 2-3 Proper insertion of the speculum so that the uterine cervix may be visualized.



В A NULLIPAROUS MULTIPAROUS FIGURE 2-4 Cervix of a nulliparous patient (A) and a multiparous patient (B). Note the circular os in the nulliparous cervix and the transverse os, resulting from lacerations at childbirth, in the mul-

and the os has a transverse configuration (Figure 2-4). Any purulent cervical discharge should be cultured. Plugged, distended cervical glands (nabothian folli-cles) may be seen on the exocervix (or ectocervix). In premenopausal women, the squamocolumnar junc-tion of the cervix is usually visible around the cervical os, particularly in patients of low parity. Postmeno-pausally, the junction is invariably retracted within the endocervical canal. A cervical cytologic smear (Papani-

colaou, or Pap, smear), liquid-based sampling, or DNA probe for human papillomavirus (HPV) should be taken before the speculum is withdrawn. For the tradi-tional Pap smear the exocervix (or ectocervix) is gently scraped with a wooden spatulum or plastic broom, and the endocervical tissue gently sampled with a cytobrush.

Bimanual Examination

Binanual Examination The binanual pelvic examination provides informa-tion about the uterus and adnexa (fallopian tubes and ovaries). During this portion of the examination, the urinary bladder should be empty; if it is not, the inter-nal genitalia will be difficult to delineate, and the pro-cedure is more apt to be uncomfortable for the patient. The labia are separated, and the gloved, lubricated index finger is inserted into the vagina, avoiding the sensitive urethral meaturs. Pressure is exerted posteri-orly against the perineum and puborectalis muscle, which causes the introlius to gape somewhat, thereby usually allowing the middle finger to be inserted as well. Intromission of the two fingers into the depth of the vagina may be facilitated by having the patient bear down slightly. If insertion of two fingers causes undue patient discomfort, examination with the index finger alone may give more information.

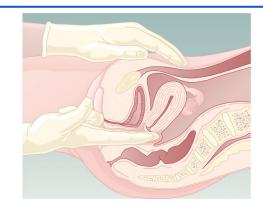
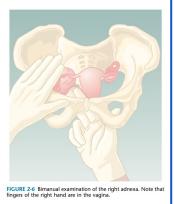


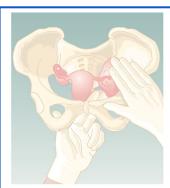
FIGURE 2-5 Bimanual evaluation of the uterus by exerting gentle pressure on the uterus with the vaginal fingers against the abdominal

absent, as may occur in postmenopausal women, it is not possible to appreciate the size of the cervix on bimanual examination. This can be determined only on rectovaginal or rectal examination.

on rectovaginal or rectal examination. The uterus is evaluated by placing the abdominal hand flat on the abdomen with the fingers pressing gently just above the symphysis pubis. With the vaginal fingers supinated in either the anterior or the posterior vaginal fornix, the uterine corpus is pressed gently against the abdominal hand (Figure 2-5). As the uterus is felt between the examining fingers of both hands, the either corpusition, concilentant and mobility of the is felt between the examining fingers of both hands, the size, configuration, consistency, and mobility of the organ are appreciated. If the muscles of the abdominal wall are not compilant or if the uterus is retroverted, the outline, consistency, and mobility must be deter-mined by ballottement with the vaginal fingers in the fornices; in these circumstances, however, it is impos-sible to discern uterine size accurately. By shifting the abdominal hand to either side of the midline and gently elevating the lateral fornix up to the abdominal hand, it may be possible to outline a right adnexal mass (Figure 2-6). The left adnexa are best appreciated with the fingers of the left hand in the vagina (Figure 2-7). The examiner should stand side-ways, facing the patient's left, with the left hip main-taining pressure against the left elbow, thereby



Reference



GURE 2-7 Bimanual examination of the left adnexa. Note that gers of the left hand are in the vagina.

providing better tactile sensation because of the relaxed musculature in the forearm and examining hand. The **pouch of Douglas** is also carefully assessed for nodu-arity or tenderness, as may occur with endometriosis, pelvic inflammatory disease, or metastatic carcinoma. It is usually impossible to feel the normal tube, and

pelvic inflammatory disease, or metastatic carcinoma. It is usually impossible to feel the normal tube, and conditions must be optimal to appreciate the normal ovary. The normal ovary has the size and consistency of a shelled oyster and may be felt with the vaginal fingers as they are passed across the undersurface of the abdominal hand. The ovaries are very tender to compression, and the patient is uncomfortably aware of any ovarian compression or movement during the examination.

examination. It may be impossible to differentiate between an ovarian or tubal mass or even a lateral uterine mass. Generally, left adnexal masses are more difficult to evaluate than those on the right because of the position of the sigmoid colon on the left side of the pelvis. An ultrasonic examination should be helpful for delineating these features.

RECTAL EXAMINATION

The anus should be inspected for lesions, hemorrhoids, or inflammation. Rectal sphincter tone should be recorded and any mucosal lesions noted. A guaiac test should be performed to determine the presence of occult blood

A rectovaginal examination is helpful in evaluating asses in the cul-de-sac, the rectovaginal septum, or

adnexa. It is essential in evaluating the parametrium in patients with cervical cancer. Rectal examination may also be essential in differentiating between a rectocele and an enterocele (Figure 2-8)

LABORATORY EVALUATION

Appropriate laboratory tests normally include a uri-nalysis, complete blood count, erythrocyte sedimentation rate, and blood chemistry analyses. Special tests, such as tumor marker and hormone assays, are per-formed when indicated.

ASSESSMENT

Assessment A reasonable differential diagnosis should be possible with the information gleaned from the history, physical examination, and laboratory tests. The plan of man-agement should aim toward a chemical or histologic confirmation of the presumptive diagnosis, and the appropriate therapeutic options, along with the ratio-nale for each option, should be recorded.

Patients with Special Needs PEDIATRIC AND ADOLESCENT PATIENTS

PEDIATRIC AND ADOLESCENT PATIENTS Girls experience fewer gynecologic problems than do adult women, but their concerns need to be met effectively and skillfully in a way that will allay anxiety and create a positive attitude toward their gyneco-logic health. Unique complaints fall generally into a handful of categories: congenital anomalies, genital injuries, inflammation of the nonestrogenized genital tract, pubertal problems, and psychosexual concerns. Genital ambiguity, trauma, and vaginal bleeding in the prepubertal child are covered briefly in this chapter.

GENITAL AMBIGUITY

GENITAL AMBIGUITY Dealing with genital ambiguity in the newborn requires a coordinated and timely response. The family's psy-chological well-being must be addressed because they must feed confident in the gender identity of their child. Ambiguity can result from masculinization of a female child due to exogenous hormone ingestion or maternal or fetal overproduction of androgen. It may also result from incomplete virilization of a male infant, hormonal insensitivity: gonadal dysgenesis, or chromosomal anomalies (see Chapters 18 and 20). When assessing an infant with ambiguous genitalia, fluid and electrolyte balance should be monitored and blood drawn for 17-hydroxyprogesterone and cortisol to rule out 21-hydroxylase deficiency. Life-threatening liness may be missed in children with the salt-losing form of congenital adrenal hyperplasia (see Chapter 33).

TRAUMA

Straddle injuries are the most common cause of trauma to the genitalia of a young girl, and the injuries have a

increases gradually as the pressure of palpation is increased, is often seen with a hemoperitoneum.

increased, is often seen with a hemoperitoneum. It is important to palpate any abdominal mass. The size should be specifically noted. Other characteristics may be even more important in suggesting the diagno-sis, such as whether the mass is cysic or solid, smooth or nodular, fixed or mobile, and whether it is associated or notular, hxed or mobile, and whether it is associated with ascites. In determining the reason for abdominal distention (tumor, ascites, or distended bowel), it is important to percuss carefully the areas of tympany (gaseous distention) and dullness. A large tumor is gen-erally dull on top with loops of bowel displaced to the flanks. Dulness that shifts as the patient turns onto her side (shifting dullness) is suggestive of ascites.

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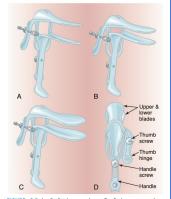


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The cervix should be inspected to determine its size. shape, and color. The nulliparous patient generally has a conical, unscarred cervix with a circular, centrally placed os; the multiparous cervix is generally bulbous



FIGURE 2-8 Rectovaginal bimanual examination. During the Valsalva maneuver, an enterocele will separate the two fingers

seasonal peak when bicycles come out in the spring. The majority of these injuries are to the labia. Penetrat-ing vaginal injuries can cause major intraabdominal damage with minimal external findings. Sexual assault must always be considered. After a life-threatening condition is ruled out, an ice pack, childe bag of intra-venous solution, or cool compress may be applied to the injured area and the child allowed to rest quietly for 20 minutes before being assessed further. Extensive injuries usually require examination under anesthesia and surcical repair.

and surgical repair. In any case of trauma, concurrent damage to the rectum or urinary tract should be considered. **If there** is any reason to suspect sexual or physical abuse, the child protection authorities must be notified, and the examination should include the collection of medicolegal evidence.

VAGINAL BLEEDING IN THE PREPUBERTAL CHILD

Vaginal bleeping in the reprotected child Vaginal bleeping is a frequent and distressing com-plaint in childhood. Although it will most often be of benign etiology, more serious pathology must always be ruled out. Vaginal bleeding in the newborn is most often physiologic as a result of maternal estrogen

withdrawal. In such cases, there should be supportive evidence of a hormonal effect, such as the presence of breast tissue and pale, engorged vaginal epithelium. Bleeding disorders are uncommon in this age group but should be considered. Vitamin K is routinely given to the newborn, but some parents may refuse the m dication.

Precocious puberty (see Chapter 32) may present evidence of maturation will have preceded the bleeding and will be evident on examination. At the very least, a pale, estrogenized vaginal epithelium will be seen, and cytology from the vagina will confirm the hormonal cytology from the vagina will confirm the hormonal effect. Transient precocious puberty may occur in response to a **functional ovarian cyst**, and vaginal bleeding may be triggered by the spontaneous resolu-tion of the cyst. **Exogenous hormonal exposure** should be considered, because children have been known to ingest birth control pills. **Ovarian tumors** resulting in pseudoprecocious puberty should be ruled out. **Vulvovaginitis** is common but is a diagnosis of exclusion. When bleeding is present, it is necessary to assess the vagina and to rule out a foreign body or vaginal tumor.

Vaginal tumors are the most serious possibility to be considered. Sarcoma botryoides classically presents with vaginal bleeding and grapelike vesicles. For-tunately, this is a rare tumor.

Geriatric Patients

The gynecologic assessment of the elderly woman may The gynecologic assessment of the elderly woman may present a special challenge. Many older patients tend to underreport their symptoms, possibly because of a belief that any new physical problems are due to the normal aging process. Also, a fear of loss of their inde-pendence may contribute to this denial and this may lead to a delay of diagnosis and perhaps a worse prog-nosis. In addition to the routine gynecologic history and physical examination, these patients should be evaluated for any sensory immairments such as visual evaluated for any sensory impairments, such as visual or hearing loss, any impaired mobility, malnutrition, urinary incontinence, or confusion, which may be due

tamai y incontinence, or contastoli, which may be due to polypharmacy. Appropriate referral, when improve-ment can be reasonably expected, should be consid-ered for these problems once identified. Gynecologic conditions such as atrophic vaginitis, uterine and vaginal prolapse, and genital tract malig-nancies are among the more common problems encountered in the geriatric patient.

Patients with Disabilities

Women with developmental or acquired disabilities should receive the same high quality obstetric and gynecologic care as anyone else, with a goal of sustain-ing their best level of functioning. Assisting families of

mentally or physically disabled individuals with obstetrice or gynecologic problems or attending for them in special institutions can be quite challenging. The woman with a disability is a person with special and unique needs, and communicating to her a sense of caring and respect is paramount.

Lesbian, Gav. Bisexual. and Transgender Patients

This group of patients is composed of lesbian, gay, bisexual, and transgender women and men and is known as LGBT. There is now recognition that women bisexua, and targender worrecognition that worren known as LGBT. There is now recognition that worren who are in a same-sex intimate relationship, as well as those who are transgender, need special consideration and understanding for the health issues that they may encounter. The U.S. Office of Prevention and Health Promotion points out that LGBT individuals, possibly because of the discrimination that they encounter, have higher rates of psychiatric disorders, substance abuse, and suicide. The obstetrician and gynecologist should be particularly sensitive to the needs that these women may have regarding their reproductive health. More information about the health disparities that the LGBT community may have can be found at www. healthypeople.gov/LGBT. For more detailed informa-tion about the specific needs that LebBian and trans-gender women may have, the American College of Obstetricians and Gynecologists Committee Opinion Number 252, dated May 2012 and reafirmmed in 2014, can be consulted at www.ACOG.org.





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Good Luck!



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