ABORTION

Week 54

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With SDH and .phrase slides by Chloé Altchek, MS4

Reading Assignment:
ACOG Committee Opinion #612, “Abortion Training and Education,” November 2014
LEARNING OBJECTIVES

• Learn pertinent epidemiological details regarding induced abortion in the United States
• Understand currently available options for induced abortion
• Understand the risks/benefits/alternatives for each type of induced abortion
CASE VIGNETTE

Patient is an 18 yo G4 P0030 woman at 8w4d EGA by LMP who presents to clinic with an undesired pregnancy. She reports minimal spotting and cramping 3 weeks ago but is currently asymptomatic.

She states that her partner and family are not supportive of her obtaining an abortion, but she strongly desires termination of pregnancy.
FOCUSED HISTORY

What will be pertinent in her history?

• **POBH:** 3 x VTOP (MVA)
• **PGYNH:** Menarche at 11 yo; regular monthly cycles; denies STIs; using COCs consistently
• **PMH:** Denies
• **PSH:** 3 x MVA
• **FH:** Denies
• **SH:** No toxic habits; unemployed; monogamous relationship; denies IPV; lives with a friend and feels safe
• **Meds:** None
• **All:** NKDA
PERTINENT PHYSICAL EXAM FINDINGS

What will be pertinent in her physical exam?

**VS:** P 80 BP 90/60  **Wgt:** 80 kg  **Hgt:** 166cm  **BMI:** 29.0 kg/m$^2$
- **General:** NAD, well-appearing
- **Bedside transabdominal ultrasound:** CRL c/w 8w0d, +FHR 150s
BACKGROUND

• Abortion is one of the most frequently performed procedures in the United States

  • **24%** of women will have at least 1 abortion by the age of 45
    • 6 in 10 women who have had an abortion have had at least 1 birth
  • US abortion rate: 11.6 abortions per 1000 women aged 15-44
    • 7% decline since 2014

• **51%** of pregnancies are unintended

  • 27% end in birth
  • 24% end in elective abortion
BACKGROUND

• When do the majority of abortions occur?
  • Within the 1st 12 weeks
  • Only 4% occur after 16 weeks, and 1.3% after 21 weeks

• Who has abortions?
  • EVERYONE (2014-39% white, 28% black, 25% Hispanic, 6% Asian/PI, 3% other)
  • 75% of patients are from low-income socioeconomic backgrounds
  • 62% of patients identify with a religious affiliation
  • Women with a college education have the lowest abortion rates and have had the greatest decline in abortion rates since 1994 (30%)

• Why do women obtain abortions after 16 weeks?
  • Unaware of pregnancy (71%), difficulty making arrangements for abortion (48%), afraid to tell parents/partner (33%), decision ambivalence (24%), fetal abnormalities unable to be detected earlier in pregnancy (2%)
BACKGROUND

• What is the mortality rate for abortion?
  • 0.69/100,000 abortions

• How does abortion-related mortality rate change with increasing gestational age?
  • It increases:

• How does abortion-related mortality rates compare to mortality rates associated with pregnancies continued to birth?
  • The risk of death when a pregnancy is continued to birth is 12 times as great the risk of death from induced abortion

<table>
<thead>
<tr>
<th>Mortality rate</th>
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</thead>
<tbody>
<tr>
<td>Medication abortion</td>
<td>0.41/100,000</td>
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<tr>
<td>&lt;8 weeks GA</td>
<td>0.1/100,000</td>
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<tr>
<td>9-10 weeks GA</td>
<td>0.2/100,000</td>
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<tr>
<td>11-12 weeks GA</td>
<td>0.4/100,000</td>
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<tr>
<td>21+ weeks GA</td>
<td>8.9/100,000</td>
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TAKE HOME POINT: Abortion is one of the safest medical procedures available
<table>
<thead>
<tr>
<th><strong>First Trimester Medical Abortion</strong></th>
<th><strong>First Trimester Surgical Abortion</strong></th>
<th><strong>Second Trimester Medical Abortion</strong></th>
<th><strong>Second Trimester Surgical Abortion</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Regimen</strong></td>
<td><strong>Advantages</strong></td>
<td><strong>Advantages</strong></td>
<td><strong>Advantages</strong></td>
</tr>
<tr>
<td>- In-office: Mifepristone 200 mg PO&lt;br&gt;- 24-48 hours later: misoprostol 800 mcg buccally at home&lt;br&gt;- RTC 1-2 weeks for assessment and provision of contraception</td>
<td>- 99% effective (more than medical abortion)&lt;br&gt;- less time (15 minutes on average)&lt;br&gt;- Early termination has less morbidity/mortality than procedures later in gestation</td>
<td>- Avoid surgical risks&lt;br&gt;- In patients at risk of having complicated procedures - Allows viewing/holding of fetus&lt;br&gt;- Allows intact fetus for fetopsy</td>
<td>- Decreased duration of procedure/timing&lt;br&gt;- Best in conditions requiring an expedited course</td>
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<tr>
<td><strong>Advantages:</strong></td>
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<td><strong>Disadvantages:</strong></td>
<td><strong>Disadvantages:</strong></td>
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<tr>
<td>- performed w/o delay&lt;br&gt;- avoid risks of surgery/anesthesia&lt;br&gt;- increases availability</td>
<td><strong>Disadvantages:</strong></td>
<td>- increased risk of hemorrhage (0.7% vs 0.1-0.6% in D&amp;E), retained placenta (8% vs &lt; 1%)&lt;br&gt;- Uterine rupture</td>
<td>- Surgical/anesthesia risks&lt;br&gt;- No viewing of remains</td>
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<tr>
<td><strong>Disadvantages</strong></td>
<td></td>
<td></td>
<td><strong>Cervical Preparation</strong></td>
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<tr>
<td>- higher risk of failure&lt;br&gt;- more bleeding&lt;br&gt;- more time</td>
<td><strong>Procedures</strong></td>
<td></td>
<td>- Laminaria (1-2 days)</td>
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<td><strong>Mechanism of action</strong></td>
<td><strong>Cervical Preparation</strong></td>
<td></td>
<td>(At CUIMC, 20+ wks, require 2 days of lams, 14-19+6 require 1 days of lams)</td>
</tr>
<tr>
<td>- Mifepristone: progesterone receptor antagonist/agonist that causes 1) decidual necrosis, 2) separation of placenta, 3) sensitization to prostaglandins, 4) cervical ripening</td>
<td>- Generally for patients 10 weeks or greater: misoprostol 600 mcg PV x 1.5 hours prior to procedure (or 400 mcg PV 3 hrs prior)</td>
<td><strong>Anesthesia Options</strong></td>
<td>- Heavy sedation&lt;br&gt;- General anesthesia&lt;br&gt;- Regional anesthesia</td>
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<tr>
<td><strong>Contraindications</strong></td>
<td><strong>Anesthesia Options</strong></td>
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<td>- Ectopic, severe anemia (&lt;9), on anticoagulation, porphyria, chronic adrenal failure, long-term corticosteroid use, IUD in situ,</td>
<td>- Local (paracervical block)&lt;br&gt;- Moderate Sedation&lt;br&gt;- General anesthesia</td>
<td>- Dilatation and evacuation&lt;br&gt;- (Hysterotomy/hysterectomy, only with failed attempts at medical IOL/D&amp;E or if these are contraindicated)</td>
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<td>- any surgical contraindications&lt;br&gt;- uterine anomalies/fibroids</td>
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**Regimen**

- Mifepristone, 200 mg, administered orally, followed in 24-48 hours by:
  - Mifepristone, 400 micrograms administered vaginally, followed by 400 micrograms administered vaginally or sublingually every 3 hours for up to a maximum of five doses.
  - Mifepristone, 400 micrograms, administered buccally every 3 hours for up to a maximum of five doses also may be used.
- If mifepristone is not available:
  - Misoprostol, 400 micrograms administered vaginally or sublingually every 3 hours for up to a maximum of five doses for nulliparous women.
  - A vaginal loading dose of 600-800 micrograms of misoprostol followed by 400 micrograms administered vaginally or sublingually every 3 hours may be more effective.
- If misoprostol is not available:
  - Oxytocin, 20-100 units, infused intravenously over 3 hours, followed by 1 hour without oxytocin to allow diuresis. Oxytocin dosage may be slowly increased to a maximum of 300 units over 3 hours.

https://www.fda.gov/media/72923/download
COMPLICATIONS

• What are the complications associated with 1st trimester medical abortion and how do you manage them?
  • Failure (3-5%), increases w/ increasing gestational age, includes both incomplete abortion and true failure (i.e., ongoing pregnancy, which has a lower rate of ~2%)
    • Medical (misoprostol) and surgical management for incomplete Abs
    • Surgical management for ongoing pregnancies
  • Infection (0.09%)
    • Rule out retained products of conception with surgical evacuation as indicated
    • Antibiotic treatment
    • Risk factors: cervicitis

• What are the complications associated with surgical abortion?
  • Infection (<2%)
  • Incomplete abortion (<2%)
  • Cervical laceration (<1.2%)
  • Uterine perforation (<0.4%)
  • Hemorrhage (<0.3%)
  • Asherman’s syndrome (<0.0002%)
CLINICAL EVALUATION AND MANAGEMENT

• Assess eligibility (i.e., history)
• Confirm pregnancy and gestational age
• Obtain appropriate lab tests (Rh status; GC/CT per CDC recommendations-i.e., not universal)
• Options counseling
  • Assess patient goals/desired experience
  • Discuss gestational age limit (can differ by site, state, etc.)
    • At CUIMC, the limit (thus far) is 23+6 weeks EGA
  • Nondirective
  • Informed consent
  • Contraceptive counseling
• Antibiotic prophylaxis (surgical only) = Doxycycline 200 mg PO x 1 pre-operatively
• Procedure
  • Type (med/surg)
  • Setting (inpatient/outpatient)
  • Provision of contraception
  • RhoGAM as indicated (within 72 hours)
• Follow-up
  • Confirm uterine evacuation (esp. with med vtop)
  • Contraception provision (remember, Nexplanon can be provided with mifepristone on day of administration)
SOCIAL DETERMINANTS OF HEALTH

Abortion insurance coverage in NY state:
• Medicaid covers cost of abortion
• Undocumented or temporary non-immigrants can receive Emergency Medicaid coverage

Consequences of unintended birth:
• increased risk of detrimental prenatal parental behaviors (substance use, lack of prenatal care)
• negative health and social outcomes for both mother and child (underemployment, behavioral issues)

PRO TIP!
Be sure to ask a patient what they are most worried about. Many will have concerns about the fetus feeling pain, or how this will affect their ability to conceive in the future, for example.
EPIC .PHRASE

.BBonAbortionCounseling

Description: Abortion Counseling

@AGE@ @GP@ @ *wk*d by US today who desires termination of pregnancy. The patient’s goals and desired experience regarding the pregnancy were elicited. Options including continuing the pregnancy, adoption and termination of pregnancy were discussed. Options for termination were also discussed including ***D&C or medication abortion for GA ≤ 10 wks/***D&E for GA 10w0d-23w6d and the associated risks and gestational age limits of each. Future contraceptive options were also discussed.
CODING AND BILLING

• ICD-10
  • Z33.2, Encounter for Elective Termination of Pregnancy

• CPT
  • 59840, Dilation and curettage, induced abortion
  • 59841, Dilation and evacuation, induced abortion
EVIDENCE

- https://www.guttmacher.org/factsheet/induced-abortion-united-states