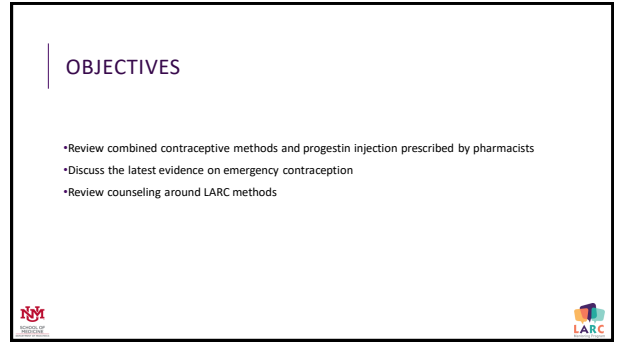
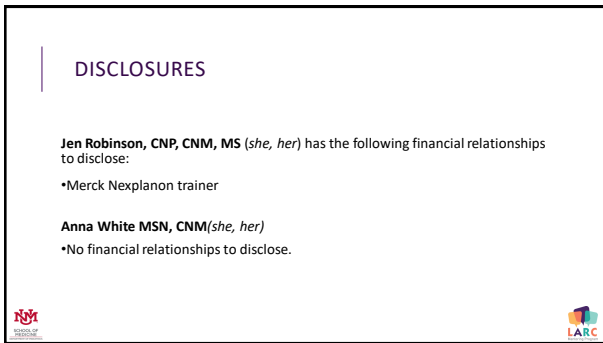




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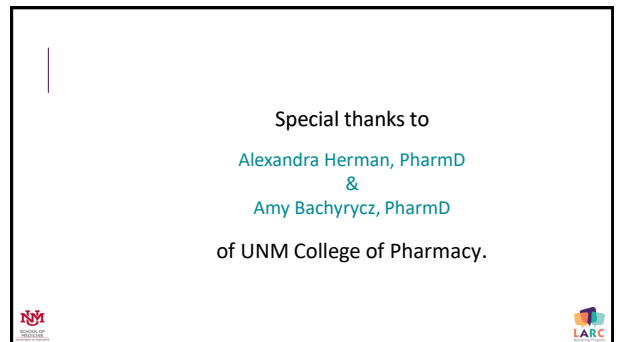
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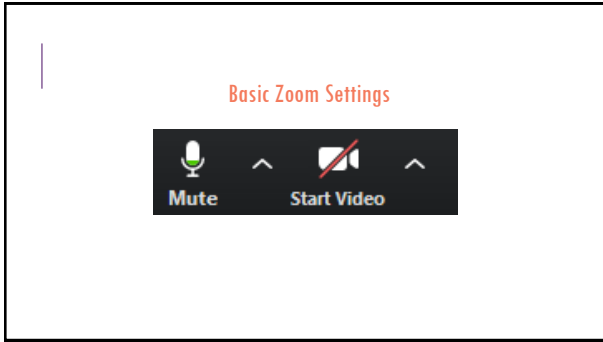
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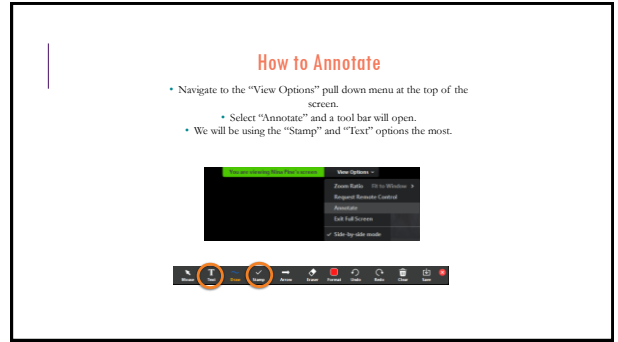
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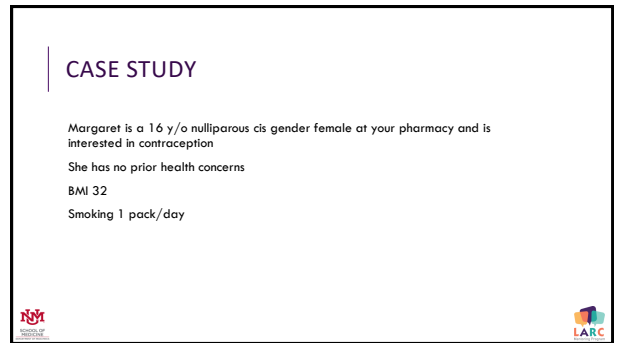
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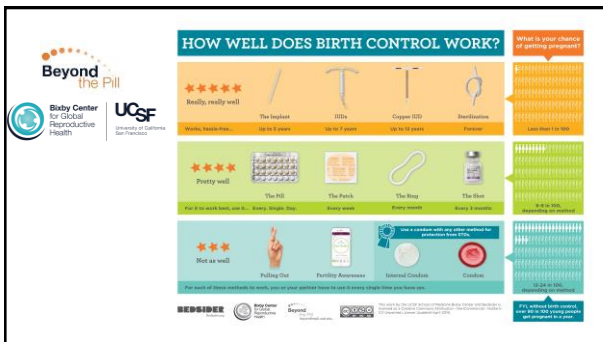
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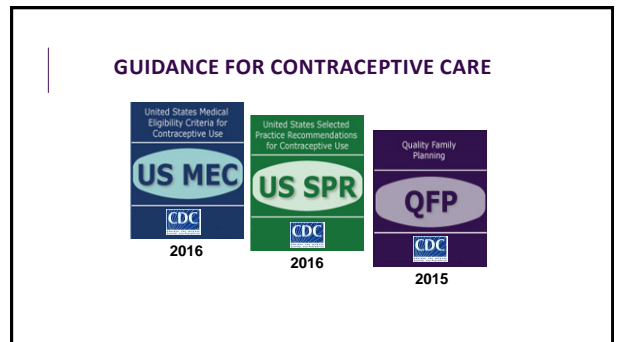
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CDC MEDICAL ELIGIBILITY CRITERIA




Search: "CDC Contraception"

CDC Medical Eligibility for Initiating Contraception	
Method can be used without restriction	1
Advantages generally outweigh risks	2
Method not recommended unless more appropriate methods not acceptable	3
Absolute contraindication, avoid use	4

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Injection (DMPA)



- Depot Medroxyprogesterone Acetate
- Intra-muscular or subcutaneous injection every 3 months
- 70% experience amenorrhea by 12 months
- Less PID, fibroids, endometrial cancer

Trussell J. Contraceptive Technology 2011.
Cherone DA, Aron-Johnson S. 2004.
Trussell J. Contraception 2004.
Westhoff C. Contraception 2003. et al.

14

Vaginal Ring



Contains estrogen and progestin

Flexible ring that is placed in the vagina

- Used 3 weeks/ out 1 week
- 4 weeks of medication in each ring

Continuous use: Can be changed once every 4 weeks

NewRing/Prescribing Information. Original: 2001
Fenster CJ. Clin Pharmacokinet. 2002
Hendler EJ. Adv Fam Pract. 2004
Dobson TO. Obstet Gynecol. 2002
Lewin ES. Int J Fam. 2003

15

The Patch



Contains estrogen and progestin

Applied once a week

Use 3 weeks, off 1 week

Alameda L.S. Fertil Steril. 2002.
Ortho Evra Prescribing Information.
Borenstein JF. Fertil Steril. 2002.
Zaccaro RJ, et al. Fertil Steril. 2002.
Zelman M. Fertil Steril. 2002.
Aulinger DP. Contraception. 2004.
Aulinger MC. JAMA. 2001.

16

After describing the patch, ring, depo and pill. Pt. Decides she wants the pill.

She states that her friend only has her period once every three months and says "can I get something like that?"

Which pill do you prescribe her?

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CDC Medical Eligibility for Initiating Contraception						
Condition	Copper IUD	LNG-IUS	Implant	DMPA	POP	Pill, patch, ring
High blood pressure	<159 / <99	1	1	1	2	3
	>160 / >100 or w/ vascular disease	1	2	2	3	3/4
Migraine with aura	1	1	1	1	1	4
Smoking	Age <35	1	1	1	1	2
	Age > 35, <15 cigarettes/day	1	1	1	1	3
	Age > 35, > 15 cigarettes/day	1	1	1	1	4
Blood clots	Post or current blood clot	1/2	2	2	2	4
	History of GDM	1	1	1	1	1
Diabetes Mellitus (DM)	Nonvascular NIDDM or IDDM	1	2	2	2	2
	DM with Vascular disease or > 20yrs	1	2	2	3	3/4
		1	2	2	3	3/4

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MONOPHASIC VS MULTIPHASIC


MONOPHASIC are typically preferable due to:

- Ease of use
- Consistent hormone dose

Multiphasic COCs

- require more careful adherence to a specific sequential order in which to take the pills each cycle
- cannot be transitioned to continuous or extended-cycle use the way that monophasic pills can if the patient desires
- concerns that the changing hormone levels in multiphasic COCs could exacerbate mood symptoms in susceptible women (eg, those with premenstrual syndrome or premenstrual dysphoric disorder)

Madden T, Secura GM, Nesar R, et al. The role of contraceptive attributes in women's contraceptive decision making. Am J Obstet Gynecol 2015; 213:864-9.




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CYCLIC VS EXTENDED USE

Frequency of withdrawal bleeding desired by patient is key

- monthly withdrawal bleeding
- every three months (84/7 formulations)
- no withdrawal bleeds (365 day formulations).




SEASONALE®
(0.15 mg levonorgestrel/
30 mcg ethinyl estradiol)
84 active pink pills
followed by 7 placebo pills
Two Women's Health



SEASONIQUE®
(0.15 mg levonorgestrel/
30 mcg ethinyl estradiol)
84 active pink pills followed by
7 pills with 10 mcg ethinyl estradiol
Two Women's Health

Rothman AL, Cooks MF, Nesar R, et al. Continuous or extended cycle vs cyclic use of combined oral contraceptives for contraception. Cochrane Database Syst Rev 2015; CD004495.




20

ETHINYL ESTRADIOL DOSE

Women should be prescribed a COC with 35 mcg of ethinyl estradiol or less.

- The data regarding safety of 20 mcg versus 25, 30, or 35 mcg ethinyl estradiol COCs suggest less risk with 20 mcg formulas but are not strong enough to endorse higher safety with 20 mcg pills
- COCs containing 50 mcg of ethinyl estradiol should not be used for contraception but are available for the acute treatment of uterine bleeding.

Madden T, Secura GM, Nesar R, et al. The role of contraceptive attributes in women's contraceptive decision making. Am J Obstet Gynecol 2015; 213:864-9.




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PROGESTIN TYPE


All COCs are antiandrogenic when the effects of both estrogen and progestin are considered.

- Acne
- Heavy menses
- Dysmenorrhea
- PMS/PMDD


There may be a slightly increased risk with newer progestins (gestodene, desogestrel, and drospirenone) compared with levonorgestrel, however, if absolute risk is extremely low for all COCs. The evidence is not compelling enough to change prescribing patterns.




MIKRONON® TABLETS
28-DAY REGIMEN
(0.02 mg norgestrel/
active pills; blue green)
Ciba-Geigy



NORG-EST® TABLETS
28-DAY REGIMEN
(0.02 mg norgestrel/
active pills; yellow)
Watson




CAMILA®
levonorgestrel (LNG), (0.02 mg)
active pills; light pink
Teva Pharmaceuticals USA



ERIBON®
levonorgestrel (LNG), (0.02 mg)
active pills; yellow
Teva Pharmaceuticals USA

de Bouter M, Stegeman EH, Boerdijk FE, et al. Combined oral contraceptives versus progestins. Cochrane Database Syst Rev 2014; CD010813.




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GENERIC VS BRAND NAME

Affordability

- Brand names are typically more expensive and have higher co-pay

Madden T, Secura GM, Nesar R, et al. The role of contraceptive attributes in women's contraceptive decision making. Am J Obstet Gynecol 2015; 213:864-9.




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Contraindications: Combined Hormonal Contraceptives

- Clotting disorders
- History of deep vein thrombosis or pulmonary embolism
- Migraine with aura or focal neurological deficit
- Uncontrolled hypertension
- Ischemic heart disease
- Active liver disease

USMHC 2016




24

21/7 VS 24/4

24/4

- emerging evidence about increased efficacy (especially for obese women)
- decreased hormone withdrawal side effects during the hormone-free interval

London A, Jensen JT. Evidence for abolishing the hormone-free interval in modern oral contraceptives. Int J Gynaecol Obstet 2016; 134A.




25

ACHES – WARNING SIGNS/SIDE EFFECTS

Abdominal pain	Blood clot in pelvis or liver
Chest pain	Pulmonary embolism/heart attack/angina
Headaches	Stroke/retinal vein thrombosis
Eye problems	Thrombophlebitis/deep vein thrombosis
Severe leg pain	

http://www.contraceptive-technology.org/wp-content/uploads/2015/06/ACHES-Figure.pdf




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WHEN AND WHY TO SWITCH TO A DIFFERENT OCP

If the patient has been referred for additional evaluation with a health provider, it may be reasonable to change medication until appointment takes place.

- Consider increasing dose of ethinyl estradiol to 35 mcg pills
- Consider use of 24/4 formulation, if not already in use
- Consider progesterone only options (such as Norethindrone acetate 5 mg and Provera 10 mg) as short term courses to manage bleeding complications
- Important to assess need for contraception and possible need for barrier methods

U.S. FDA



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WHEN TO REFER TO A CLINICIAN/CLINIC

- Heavy or prolonged vaginal bleeding
- Pregnancy
- STIs
- Anemia
- Cancer

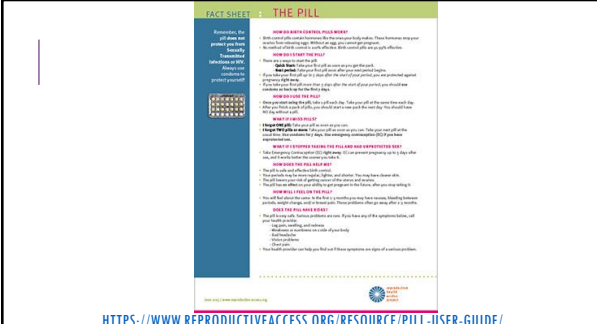
Patient experiencing undesired side effects

Difficulty with adherence to medication

U.S. FDA



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<https://www.reproductiveaccess.org/resource/pill-user-guide/>


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Recommended Actions After Late or Missed Combined Oral Contraceptives

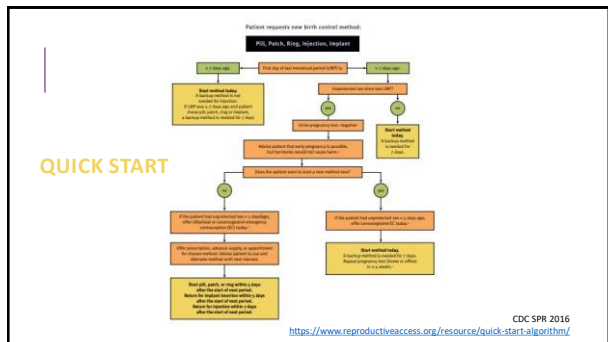
<p>If one hormonal pill is missed (24 hr or less since last pill)</p> <ul style="list-style-type: none"> Take the late or missed pill as soon as possible. Continue taking the remaining pills at the usual time even if it means taking two pills on the same day. No additional contraceptive protection is needed. Emergency contraception (if not usually needed) can be considered (with the exception of UPI). If hormonal pills were missed earlier in the cycle or in the last week of the pill pack cycle. 	<p>If one hormonal pill has been missed (24 hr to < 48 hours since last pill) (Should have been taken)</p> <ul style="list-style-type: none"> Take the most recent missed pill as soon as possible (any other missed pills should be discarded). Continue taking the remaining pills at the usual time even if it means taking two pills on the same day. Use back-up contraception (e.g., condoms) or avoid sexual intercourse until hormonal pills have been taken for 7 consecutive days. If 2 pills were missed in the last week of hormonal pills (e.g., days 15-21 for 28-day pill pack): <ul style="list-style-type: none"> Check for hormone-free interval by finishing the hormonal pills in the current pack and starting a new pack the next day. If unable to start a new pack immediately, use back-up contraception (e.g., condoms) or avoid sexual intercourse until hormonal pills from a new pack have been taken for 7 consecutive days. Emergency contraception should be considered (with the exception of UPI). If hormonal pills were missed during the first week and unprotected sexual intercourse occurred in the previous 5 days. Emergency contraception may also be considered (with the exception of UPI) at other times as appropriate.
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Abbreviations: UPI = ulipristal acetate

Source: For U.S. recommendations and updates, see the U.S. Selected Medicines Recommendations for Contraception. The language in this document is based on the recommendations in the U.S. Selected Medicines Recommendations for Contraception.



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After describing all of the different aspects of the pill, you suddenly realized that you didn't ask her LMP or last episode of unprotected intercourse

Pt. States that she had unprotected intercourse 3 days ago

Again, her BMI is 32

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OOPS! EMERGENCY CONTRACEPTION: BIRTH CONTROL THAT WORKS AFTER SEX

Types of Emergency Contraception	How will it work?	How soon do I have to use it?	How do I use it?	Where can I get it?
Copper IUD	Almost 100% effective	Within 5 days	It's placed in the uterus by a health care provider	Some health care providers
ella	100% effective for up to 3 days	ASAP	Take the pill, one each time you get it	Pharmacies, health care providers
Plan B One-Step or a generic	Works best if taken within 3 days	ASAP	Take the pill(s) one each time you get it	All pharmacies, no prescription needed

Source: The "OOPS" guide on emergency contraception and abortion is licensed by the University of California, San Francisco.

34

ECP loses efficacy with increased BMI

Copper T IUD remains nearly 100% effective for these patients

Glazier A et al. Contraception. 2011.

35

USING OCPs AS EMERGENCY CONTRACEPTION

COMBINED ORAL CONTRACEPTIVES

- 2 + 2 pills** (12 hours apart)
Egipren (ethinyl estradiol/levonorgestrel)
Oval (ethinyl estradiol/levonorgestrel)
- 4 + 4 pills** (12 hours apart)
Egipren (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
- 5 + 5 pills** (12 hours apart)
Alora (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)
Lara (ethinyl estradiol/levonorgestrel)

Have your patient take estrogen medications as soon as possible after the first dose if using any of the combined oral contraceptives as emergency contraception. This is not necessary if using Plan B.

Hocher et al, 2016
<https://ec.princeton.edu/question/dose.html#dose>

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COST OF EC VS COC

EC lower cost with online coupon

- LNG 1.5 mg as low as \$10
- UA 30 mg as low as \$43
- OTC vs. with prescription

COC lower cost with online coupon

- 28 pill pack as low as \$8.45
- Extended OC pack (91 tab) lowest \$47

ACA - Mandated coverage with no cost-sharing


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Which form of EC do you prescribe patient?

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LOW KNOWLEDGE OF IUDS AND THE IMPLANT

Less than half of young women have heard of LARC
 Two-thirds do not know safety or effectiveness
 Health care providers are primary source of information on LARC
 Many providers have not integrated these methods into counseling, especially in primary care settings



Kaye K et al. The Fog Zone. 2009
 Fleming D, et al. Contraception 2010
 Barrett M et al. J Prostate Adipose Gynecol 2012
 Harper C et al. Family Medicine 2012

39

COPPER IUD IS THE MOST EFFECTIVE EMERGENCY CONTRACEPTIVE (EC)


Nearly 100% effective as emergency contraception
 More effective than EC pills for longer
 Effective for patients >165 lbs.
 Provides ongoing contraception when desired -- *No back-up needed!*

Cleland K et al. Human Reproduction 2012
 Glasier A et al. Contraception 2011
 Erwall N. Acta Obstet Gynec Scand 2016

40

COPPER T 380A IUD, PARAGARD®


Works for at least 12 years
 Nearly 100% effective
 Only highly effective non-hormonal method



FDA label for ParaGard. Revised 9/1/2005.

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EMERGENCY CONTRACEPTION (EC) TYPES



IUD

- Cu IUD
- LNG 52 mg IUD +/- LNG ECP

EC Pills

- Progestin (LNG) "Plan B"
- Ulipristal Acetate (UPA) "Ella"

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IUD MECHANISM OF ACTION

Primary: prevention of fertilization

- Decreasing sperm motility and capacitation
- Decreasing sperm and egg survival

Secondary (LNG IUDs)

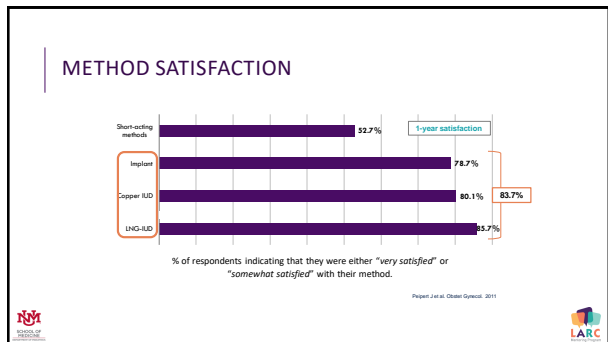
- Thickening of cervical mucous

IUDs are not an abortifacient (won't disrupt implanted pregnancy)

- Tubal flush studies find no fertilized eggs
- No transient elevations in hCG
- IUD users have low rates of intrauterine and ectopic pregnancies

UpToDate. 2015
 Stanford & Mikolajczyk. Am J Obstet Gynecol. 2002
 Ortiz & Cronatto. Contraception. 2007

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IUD SELECTION AND INDIVIDUAL PREFERENCES

Cu-T Paragard®	LNG 52 mg Mirena® / Liletta®	LNG 13.5-19.5 mg Skyla® / Kyleena®
<ul style="list-style-type: none"> Want regular menses Don't want hormones Want EC 	<ul style="list-style-type: none"> Want light menstrual flow Amenorrhea 30% Want non-contraceptive benefits (for painful or heavy menses; uterine protection) Want EC (w/ LNG ECP) 	<ul style="list-style-type: none"> Want less menstrual flow Amenorrhea 10% Want low-dose LNG IUD Need smaller IUD

Madden T et al. *UpToDate*. 2018

45

CAN ADOLESCENTS AND PATIENTS WHO HAVE NO CHILDREN USE AN IUD?

Yes
High satisfaction and continuation rates

Velthuis H. *Eur J Gen Pract*. 2004.
Suhoonen S et al. *Contraception*. 2004.
Thompson P et al. *Human Reprod*. 2006.
ACOG Committee Opinion 539. *Obstet Gynecol*. 2012.

49

CONFIDENTIAL SERVICES IN NM FOR MINORS

- Are her services confidential?
- Can she consent for her reproductive health services?
- Where can patients obtain confidential services?

Minor consent laws:
<https://www.guttmacher.org/state-policy/explore/overview-minors-consent-law>

50

What are your barriers and solutions around minor consent and confidentiality for reproductive health services?





Chat!

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SUMMARY

- 1 Keep individual patient priorities at the forefront during contraceptive counseling.
- 2 Focus on building rapport and the process of counseling rather than on a specific outcome or specific method.
- 3 Emergency contraception pills lose efficacy with increasing BMI

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	 <p>One thing you learned</p> <hr/>  <p>One thing you felt</p> <hr/>  <p>One thing you will do after today</p>	
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THANK YOU!



LARC
Mentoring Program

Questions? Please contact us:
Andrea Andersen, Program Manager
aanderse@salud.unm.edu



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