Contraception for Women with Neurologic and Psychiatric Disorders

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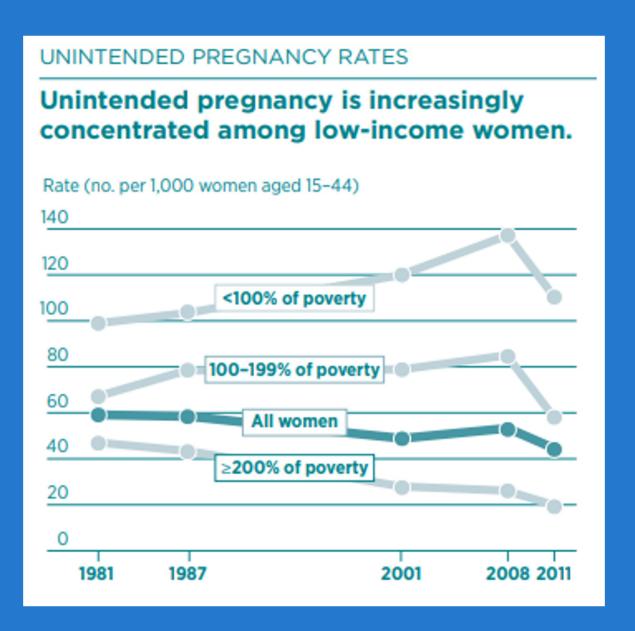
Disclosures

- No financial disclosures
- Language sometimes the term woman is used to denote biological sex, conflating gender with sex.

Almost half of all pregnancies in the U.S. are unintended

- 1 in 20 US women have an unintended pregnancy each year
- 46% pregnancies unintended, but only 18% "unwanted"
 - Significant proportion "wanted later"

Annual number of pregnancies in 2011= 6.1 million



> Perspect Sex Reprod Health. 2019 Mar;51(1):7-15. doi: 10.1363/psrh.12088. Epub 2019 Feb 14.

The Misclassification of Ambivalence in Pregnancy Intentions: A Mixed-Methods Analysis

Anu Manchikanti Gómez ¹, Stephanie Arteaga ², Elodia Villaseñor ³, Jennet Arcara ², Bridget Freihart ⁴

Journal of Midwifery & Women's Health

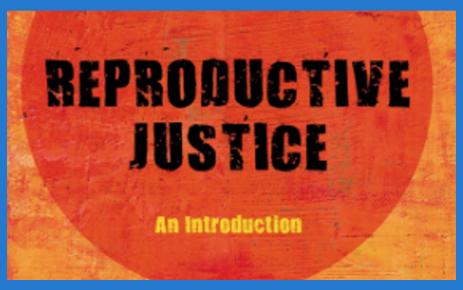
Review

Ambivalence Toward Pregnancy as an Indicator for Contraceptive Nonuse: A Systematic Review and Meta-Analysis

Allison LaCross^{1,2}, CNM, DNP, Arlene Smaldone^{2,3}, PhD, CPNP-PC, CDE, Jessica Angelson⁴, CNM

A framework based in reproductive rights and social justice:

The right to have children, not to have children, and to parent children in a safe, healthy and sustainable community.



Risks of unplanned pregnancy for patients with neurologic or psychiatric disease

- Some patients discontinue their medications- increasing risk of complications in pregnancy or from their disease
- Medical therapies may have teratogenic risk

Sub-optimal solutions:

- Prescription of inappropriate contraception may result in decreased method efficacy, increased risk of complications and/or impact on disease
- Patients denied contraceptives may rely on less effective methods

Knowledge of interactions and use of contraception by women with epilepsy (WWE)

Surveys of WWE at an academic clinic:

65% did not know their prescribed AED might interact with oral contraceptives

Less than half knew of the potential for AED-related birth defects

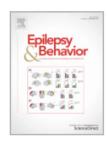
Only 53% reported using a moderately or highly effective method of contraception

21% reported withdrawal as primary method



Epilepsy & Behavior

Volume 161, December 2024, 110036



Prescription patterns relevant to young people with epilepsy of childbearing potential

Elizabeth I. Harrison ^a △ ☒, <u>Traci M. Kazmerski ^{b c} ☒</u>, <u>Harry S. Hochheiser ^d ☒</u>, Yoshimi Sogawa ^b ☒, Laura A. Kirkpatrick ^b ☒

Highlights

- Of 1525 female adolescents with epilepsy, only 41 % were prescribed folic acid.
- 24 % of those on enzyme-inducers were at risk of contraceptive failure in this setting.
- 24 % of those on lamotrigine were also on contraception that lowers lamotrigine levels.
- 13 % of patients prescribed their first teratogen were on appropriate contraception.
- Age was associated with prescription patterns relevant to this population.

Contraceptive options



Method failure rates: % experiencing unintended pregnancy and % discontinuing in the first year

Method	Typical use	Perfect use	Discontinuation
No method	85	85	
Diaphragm	16	6	43
Condom (male)	15	2	57
OCP, patch, ring	8	0.3	33
DMPA (Depo)	3	0.3	44
IUD: Copper T	0.8	0.6	22
IUD: LNG-IUS	0.1	0.1	20
Subdermal implant	0.05	0.05	16
Female sterilization	0.5	0.5	0
Male sterilization	0.15	0.10	0

Contraceptive options and efficacy



Birth control V Abortion V Sex & relationships V Sexual health & wellness V Lifestyle & inspiration V

Find health care

From birth control info to sex tips, we've got you covered.













Check out your birth control options.

Find a method that fits your body and your lif our interactive method explorer.

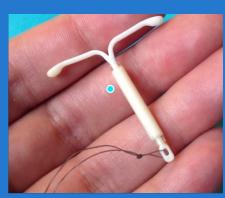
explore birth control options

Intrauterine contraceptive devices available in the United States

Copper T 380A IUD Paragard®

12 yrs of use Menses - 1 day longer 50% heavier







Levonorgestrel (LNG) IUD

Mirena® & Liletta IUS

52 mg – LNG 20 mcg levonorgestrel /day 8 yrs of use 20% amenorrhea at 1 year (15-35% ovulatory cycles) 32 x 32 mm Inserter – 4.4 mm

Kyleena® IUS

19.5 mg 17.5 mcg levonorgestrel /day 5 yrs of use 12% amenorrhea at 1 year (98%+ ovulatory) 28 x 30 mm Inserter – 3.8 mm

Skyla® IUS

13.5 mg

6 mcg levonorgestrel /day 3 years use 28 x 30 mm

Data source: Mirena, Kyleena, Skyla prescribing information. Bayer Healthcare.

Implantable contraception available in the United States



Etonogestrel Implant (Nexplanon ™)

- 5 years of use
- Office insertion/removal
- Lower dose/lower side effect profile compared to DMPA (injection)
- Ovulatory inhibition

New(er) Contraceptives

Slynd

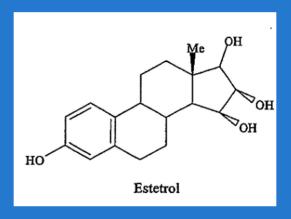
Drospirenone only oral contraceptive pill

4 mg drospirenone qd

No estrogen, + ovulation suppression (!)

Annovera

ethinyl estradiol/segesterone Yearly vaginal ring

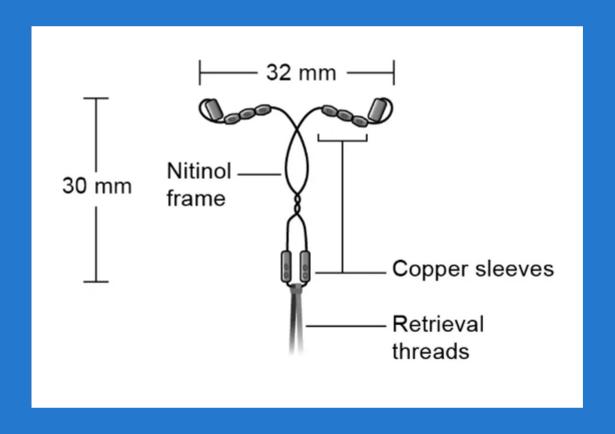


Nexstellis

Estetrol (E4) - Drospirenone

Different side effect profile due to ER subtype binding affinities

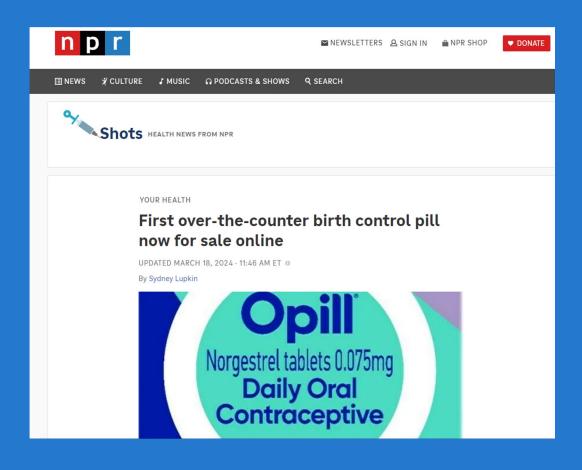
New CU+ IUD approved by FDA: Miudella



Less Cu than Paragard; flexible; approved for 3 years (studying for 8 years use)

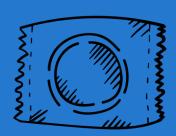
OTC Contraceptive pills

- Progestin-only pill
- 75 mcg norgestrel
 - more androgenicity than norethindrone
- ~ \$15/month
- 98% efficacy perfect use
 - 91% typical



Non-Hormonal Contraception

- Barrier methods
- Spermicides & Vaginal Suppositories
 - Phexxi (lactic acid)
- Fertility awareness method
- Lactational amenorrhea
- Withdrawal
- Sterilization
 - male and female





How does hormonal contraception interact with neurologic disease?

Headache disorders, including migraines

Multiple Sclerosis

Epilepsy

Mood disorders

Contraception and headache disorders

- Is combined hormonal contraception (CHC) or HRT safe for women with migraine?
 - Major concern is stroke
- Does CHC affect the clinical course of migraine, or of other headache disorders?

Venous thromboembolism (VTE) risk with combined hormonal contraception alone

- Risk increases with increasing dose of estrogen (20-50 mcg ethinyl estradiol), age, smoking status
- VTE risk by type of progestin modulator of estrogen risk?
- VTE risk related to patch or ring- higher overall estrogen exposure; for low-risk users no contraindication to initiation

Risk of CVA with migraine +/-aura, +/- CHC

Case-control study of 25,887 women ages 15-49 with ischemic stroke (incidence 11/100,000 females)

odds

ratio (95% CI)

Migraine + aura + CHC

6.1 (3.1-12.1)

Migraine + aura (no CHC)

2.7 (1.9-3.7)

Migraine + CHC (no aura)

2.2 (1.9-2.7)

Migraine (no aura, no CHC)

1.8 (1.1-2.9)

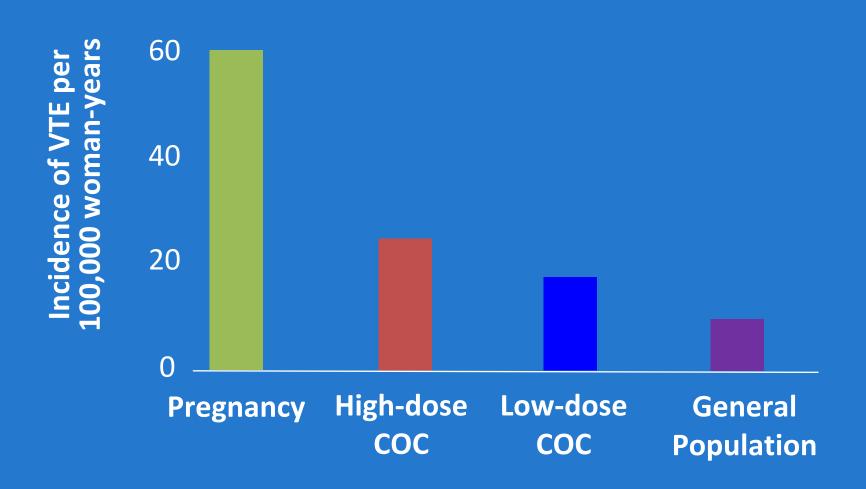
No migraine + CHC

1.4 (1.2-1.7)

No migraine, no CHC

Champaloux et al. Am J Obstet Gyn, 2017

Comparative Risks of VTE



Shulman LP. J Reprod Med. 2003. Chang J. In: Surveillance Summaries. 2003. Use of combined hormonal contraception and stroke: A case-control study of the impact of migraine type and estrogen dose on ischemic stroke risk

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Pelin Batur MD<sup>1</sup> | Meng Yao BS, MS<sup>2</sup> | Julia Bucklan DO<sup>3</sup> | Payal Soni MD<sup>3</sup> | Aarushi Suneja MD<sup>4</sup> | Ruth Farrell MD, MA<sup>5</sup> | Maryann Mays MD<sup>3</sup>
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How do COCs affect the clinical course of migraine?

- Retrospective studies in headache clinics: COCs may worsen severity and frequency of headaches, cause new onset headache- but many design flaws
- Migraine with aura patients much more likely to worsen on COC compared to migraine without aura group
- Limited evidence that progesterone-only pills (desogestrel) may decrease severity of migraine +/aura

Hormonal contraception to *treat* menstrual migraine

- Retrospective and prospective studies suggest reduction in menstrually-related migraine
 - Monophasic pill, vaginal ring, subdermal implant
 - LNG-IUD may not work due to breakthrough ovulation
- Use continuously skip placebo pills
- Goal is to eliminate the culprit—estrogen withdrawal

Erenumab in menstrually-related migraines

Change From Baseline in Mean Monthly Migraine Days by Hormonal Contraception Status

	Received H	ormonal Cont	raception	Did Not Receive Hormonal							
				Contracept							
	Placebo	Erenumab	Erenumab	Placebo	Erenumab	Erenumab					
	N = 20	70 mg	140 mg	<i>N</i> = 63	70 mg	140 mg					
		<i>N</i> = 18	N = 27		<i>N</i> = 50	<i>N</i> = 54					
Monthly migraine days at	9.5 (3.0)	8.5 (2.7)	8.9 (2.2)	8.3 (2.8)	8.2 (2.3)	8.2 (2.4)					
baseline, mean (SD)											
Change from baseline over months 4–6, LSM	-1.6 (- 3.4,	- 2.9 (- 4.8,	- 3.9 (- 5.5,	- 1.4 (-	-3.3 (- 4.2,	-3.4 (- 4.2, -					
over months 4–6, LSM	0.25)	- 1.0)	- 2.4)	2.2, - 0.6)	- 2.4)	2.5)					
(95% CI))							
Difference from placebo		-1.3 (- 3.9,	- 2.4 (- 4.7,		-2.0 (- 3.1,	-2.0 (- 3.1, -					
		1.2)	- 0.1)		- 0.8)	0.8)					
		P = 0.3	P = 0.045		P = 0.001	<i>P</i> < 0.001					
Treatment by subgroup	0.76										
interaction P value over											
months 4–6											

Pavlovic, Jelena M., et al. "Efficacy and safety of erenumab in women with a history of menstrual migraine." *The journal of headache and pain* 21.1 (2020): 1-9.

How do new HA treatments interact w/hormonal contraception?

- Study of CGRP antagonist (remigepant) on COC pharmacokinetics
- Modest increases in EE/NGM
 - AUC and maximum observed concentration
- Unlikely to negatively impact contraceptive effect or have significant health effects
- Similar results for other DDI studies (atogepant, ubrogepant)

Observations: Headache and COCs

- More common in women 35 and older
- No effect from type or dose of progesterone
- Switching to lower dose COC may not improve headaches
 - 30 vs 20 EE: No diff in dropout due to HA.¹
- If HA occurs in 1st cycle on COC, only 1/3 chance it will occur in 2nd cycle 4



Morbidity and Mortality Weekly Report

July 29, 2016

U.S. Medical Eligibility Criteria for Contraceptive Use, 2016

Criteria for method use based on best available evidence

- 1 No restriction (method can be used)
- 2 Advantages generally outweigh theoretical or proven risks
- Theoretical or proven risks usually outweigh the advantages
- 4 Unacceptable health risk (method not to be used)

The CDC MEC chart: summary of recommendations for women with headaches

Condition	Sub-Condition	Cu-IUD		LNG-IUD		Implant		DMPA		POP		СНС		
		L	C		C	I	С	L	C		C		C	
Headaches	a) Nonmigraine (mild or severe) b) Migraine		1		1		1		1		1		1*	
	 i) Without aura (includes menstrual migraine) 		1	1	1	1		1	l	1		2	2*	
	ii) With aura		1	1	1	1		1		1		4	4*	

No restriction (method can be used)
 Advantages generally outweigh theoretical or proven risks
 Theoretical or proven risks usually outweigh the advantages

Summary for CHC:

- 1 = Non-migrainous HA
- 2 = Migraine w/o aura
- 4 = Migraines w/ aura ANY age
- Or w/aura developing after CHC initiation

Contraception: effect on multiple sclerosis

Theoretical concern exists:

 MS relapse and exacerbations occur during pregnancy and postpartum period

Immune function fluctuations throughout the menstrual cycle

- RA, MS, SLE all fluctuate with monthly cycles and in menopause
- Estrogen suppresses T-cell dependent inflammation in MS and RA

Studies of Hormonal Contraception and incidence of MS

Oxford FPA Study (1968-1974)

Women using CHC had a lower incidence of MS onset
No associations between MS onset, duration of CHC use, or elapsed time since
CHC use ended

BJOG 1998

Prospective study of 46,000 CHC users Found no effect on MS incidence or survival

CDC Systematic review 2016
111 articles, 4 studies all suggested OCs do not affect disease course

Systematic Review & Meta Analysis 2022 (Ghajarzadeh et al, Int J Prev Med) - OCP use has no effect on development of MS



Concern about MS development or disease severity should not affect contraceptive choice

> Mult Scler Relat Disord. 2023 Sep:77:104864. doi: 10.1016/j.msard.2023.104864. Epub 2023 Jun 30.

Influence of menstrual cycle and hormonal contraceptive use on MS symptom fluctuations: A pilot study

Helga Taylor ¹, Saleh Alhasan ², Maha Saleem ², Shane Poole ¹, Fei Jiang ³, Erin E Longbrake ², Riley Bove ⁴

Other aspects of MS that may affect contraceptive choice

Immobility and VTE risk

If MS results in lower extremity paraparesis or paresthesias

Risk of VTE increases with increasing immobility

Patients with immobility should be counseled on increased risk with estrogen containing contraceptives.

Patient ability to apply/place method (such as diaphragm, patch, ring)

Condition	Sub-Condition	Cu-IUD		LNG-IUD		Implant		DMPA		POP		СНС	
		- 1	С	- 1	С	- 1	С	- 1	С	- 1	С	- 1	С
Multiple sclerosis	a) With prolonged immobility	1		1		1		2		1		3	
	b) Without prolonged immobility		1	1		1		2		1		1	

Hormones and epilepsy

Reproductive hormones may increase or decrease seizure threshold

Estrogen → pro-convulsant

Progesterones → anti-epileptic

"Catamenial epilepsy": defined as a consistent doubling in seizure frequency in peri-menstrual, peri-ovulatory or luteal phase of cycle

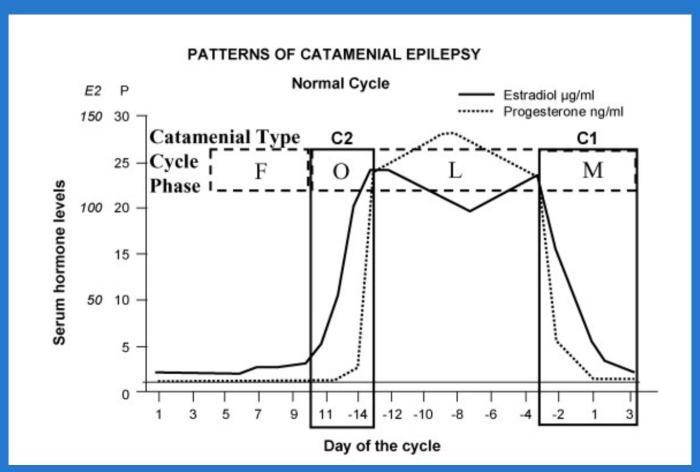
Contraception: effect on epilepsy

Initiation or ongoing use of combined oral contraceptives (COCs) does not change incidence of epilepsy; COCs may impact seizure type or frequency

Exogenous hormones may increase or decrease seizure threshold, 70-92% of WWE report no change

Menstrual suppression is a reasonable approach for any WWE, even if seizure pattern not clearly linked to same time point in cycle

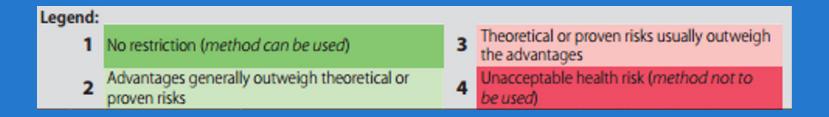
Catamenial Epilepsy



Herzog, Andrew G. "Catamenial epilepsy: definition, prevalence pathophysiology and treatment." *Seizure* 17.2 (2008): 151-159.

CDC MEC guidelines for epilepsy

Condition	Sub-Condition		CH	IC	POP		Injection		Implant		LNG-IUD		Cu-IUD	
			1	C	_	C	1	C	-1	C	_	C	-1	С
Endometrial cancer*			1		1		1		1		4	2	4	2
Endometrial hyperplasia			1		1		1		1		1		1	
Endometriosis			1		1		1		1		1		2	
Epilepsy*	(see also Drug Interactions)			•	1*		1*		1*		1		1	
Gallbladder disease	a) Symptomatic	atic												
	i) treated by cholecystectomy		2	2	2		2		2		2		1	



Patients want their neurologists to bring up SRH, contraception

"I do wish that conversations with my doctors... [included] women's health and epilepsy because I really wanna find that out... I want to know beforehand... I don't want to be dumbfounded and be like, is this gonna affect my seizures now? I would love for more of my doctors to have conversations about women's health and epilepsy."

"I feel like it's the doctor's part to give them the knowledge or suggest the knowledge to them because a lot of people aren't aware of the questions they should be asking with their own health issues."

Kirkpatrick, Laura, et al. "Preferences and experiences of women with epilepsy regarding sexual and reproductive healthcare provision." *Epilepsy & Behavior* 129 (2022): 108631.

Case Study

JG, 28-year-old G0
Epilepsy since age 13
Current medications:
lamotrigine (Lamictal)
carbamazepine (Tegretol)

Relevant GYN Hx:
Currently using condoms, had
excessive breakthrough bleeding
with prior COC use- told that she
"can't take birth control"
No current plans for pregnancy

Hormonal Contraception Interacts with Some Anti-Epileptic drugs (AEDs)

AEDs and steroid hormones are both substrates of the CYP3A4 system in the liver; certain AEDs will induce metabolism and increase clearance of hormones

In addition, unique interaction exists with lamotrigine (LTG) - hormonal contraceptives containing <u>estrogen</u> will increase LTG metabolism

AEDs by Enzyme Inducing Status

INDUCERS

Carbamazepine

Felbamate

Oxcarbazepine

Phenobarbital

Phenytoin

Primidone

Rufinamide

NON-INDUCERS

Clobazam

Clonazepam

Ethosuximide

Ezogabineb

Gabapentin

Lacosamide

Levetiracetam

Pregabalin

Tiagabine

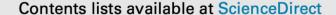
Valproate

Vigabatrin

Zonisamide

UNIQUE **INTERACTIONS**

Lamotrigine* Topiramate**





Contraception

journal homepage: www.elsevier.com/locate/contraception

Original Research Article

Real-world effect of a potential drug-drug interaction between topiramate and oral contraceptives on unintended pregnancy outcomes *,**

Amir Sarayani^{a,b}, Almut Winterstein^{a,b}, Rodrigo Cristofoletti^{c,d}, Valva Vozmediano^{c,d}, Stephan Schmidt^{c,d}, Joshua Brown^{a,b,*}

- Retrospective cohort study of patients using topiramate for headache suppression vs using another medication for headache suppression, using OCPs, following patients for up to 1 year and measuring rates of pregnancy
- No increased rate of pregnancy in the topiramate group
- Recent study on etonogestrel (nexplanon) showed negative impact on levels that could lead to breakthrough ovulation

Contraception, 2023 Larowitz et al, Obstetrics & Gynecology, 2022

Recommending Contraception for WWE

Discuss
contraceptive
preferences and
needs; if treated
with an AED,
counsel based on
enzyme inducing
status.

Enzyme-inducing AED:

1st choice: IUD (any) or DMPA*

2nd choice: implant, ring or patch when used with barrier methods; pill at the highest progestin dose available with barrier methods

Not recommended:

Progestin only pills, low-dose combination pills

Non-inducing AED:

Usual clinical decision making. No restrictions.

If a non-hormonal method selected□ no AED adjustment needed

If a combined hormonal method is recommended for a patient taking Lamotrigine: discuss with neurologist for AED adjustment

Re-evaluate if any changes in AED or contraception needed

Table 1 Contraceptive drug interactions and teratogenic effects of antiseizure medications

Medication	Levels reduced by estrogen-containing contraception ^a	May affect hormonal contraceptive efficacy ^b	Teratogenicity ^c (% major congenital malformations)
Lamotrigine	Yes	Mixed evidence for effect at daily doses of 300 mg or more	Within background rate ^d (2.9%)
Levetiracetam	No	No	Within background rate (2.8%)
Topiramate	No	At daily doses of 200 mg or more	3.9%
Valproic acid	Yes	No	10.3%
Phenobarbital	No	Yes	6.5%
Phenytoin	No	Yes	6.4%
Carbamazepine	No	Yes	5.5%
Oxcarbazepine	No	At daily doses of 1,200 mg or more	Within background rate (3.0%)

^aIncludes combined oral contraceptive pills, contraceptive patch, and vaginal ring.

blincludes combined oral contraceptive pills, progesterone-only contraceptive pills, contraceptive patch, vaginal ring, etonogestrel intradermal implant.

^cBased on data from the EURAP study. Note that teratogenicity varied by dose for certain medications. For example, lamotrigine at daily doses of 325 mg or more carried a 4.3% risk of major congenital malformations (which is above the background rate). ¹⁴

^dBackground rate of major congenital malformations in pregnancy is 2–3%. ¹⁴

Counseling WWE on Contraceptive Options

Myth-busting: clarify that hormonal contraception is safe and appropriate for many WWE

Common questions and concerns:

- IUDs can safely be used in nulliparous women and in WWE requiring MRI for brain imaging
- Unscheduled bleeding shouldn't be a trigger for seizure, also not correlated with inadequate efficacy
- Emergency contraception is safe, though unknown efficacy in setting of eiAEDs

How does hormonal contraception interact with psychiatric disease?

- Depression
- Anxiety
- PMDD
- Other disorders

Does HC result in higher risk of developing a mood disorder?

Does initiation of HC impact mood in women with previous diagnosis of depression or anxiety?

Does HC increase incidence of depression?

- Mood symptoms are a commonly reported reason for method discontinuation
- Many prior studies have had contradictory results
- National Longitudinal Study of Adolescent Health: sexually active women ages 25-35 using HC had lower mean scores of depressive symptoms compared to women using non-hormonal or no method

The Washington Post

'It's not in your head': Striking new study links birth control to depression

Research

JAMA Psychiatry | Original Investigation

Association of Hormonal Contraception With Depression

Charlotte Wessel Skovlund, MSc; Lina Steinrud Mørch, PhD; Lars Vedel Kessing, MD, DMSc; Øjvind Lidegaard, MD, DMSc

IMPORTANCE Millions of women worldwide use hormonal contraception. Despite the clinical evidence of an influence of hormonal contraception on some women's mood, associations between the use of hormonal contraception and mood disturbances remain inadequately addressed.

OBJECTIVE To investigate whether the use of hormonal contraception is positively associated with subsequent use of antidepressants and a diagnosis of depression at a psychiatric hospital.

- Supplemental content
- Jamanetworkome.com and CME Questions page 1208

Research

JAMA Psychiatry | Original Investigation

Association of Hormonal Contraception With Depression

Charlotte Wessel Skovlund, MSc; Lina Steinrud Mørch, PhD; Lars Vedel Kessing, MD, DMSc; Øjvind Lidegaard, MD, DMSc

N= 1,061,997 Danish women ages 15-34 (1995-2013)

- Increased RR for first use of an anti-depressant following HC use compared to non-users
 - OCPs 1.23 (1.22-1.25)

POPs 1.34 (1.27-1.43)

• Patch 2.0 (1.76-2.18)

Ring 1.6 (1.55-1.69)

• LNG IUD 1.4 (1.31-1.42)

Incidence rate = compared to years in non-users

2.2 per 100 women-years with HC,

1.7 per 100 women-

Therefore, ABSOLUTE RISK is small (0.5 additional women per 100-

women-vears)

Association of Hormonal Contraception With Suicide Attempts and Suicides

Charlotte Wessel Skovlund, Ph.D., Lina Steinrud Mørch, Ph.D., Lars Vedel Kessing, D.M.Sc., Theis Lange, Ph.D., Øjvind Lidegaard, D.M.Sc.

N= 475,802 Danish women entered study at age 15 (1996-2013)

- Increased RR for first suicide attempt following initiation of HC use compared to non-users = 1.97 (95% CI 1.85-2.10)
- Increased RR of suicide following initiation of HC compared to non-users = 3.08 (95% CI 1.34, 7.08)

ABSOLUTE RISKS

- 14 suicide attempts per 10,000 woman-years
- 0.12 suicides per 10,000 woman-years



Original Investigation | Psychiatry

Postpartum Hormonal Contraceptive Use and Risk of Depression

Søren Vinther Larsen, PhD; Brice Ozenne, PhD; Anders Pretzmann Mikkelsen, PhD; Xiaoqin Liu, PhD; Kathrine Bang Madsen, PhD; Trine Munk-Olsen, PhD; Øjvind Lidegaard, DMSc; Vibe Gedsø Frokjaer, PhD

Hormonal contraception initiation associated with risk of depression (hospital diagnosis or filling an antidepressant Rx) in first 12 months postpartum

- -AHR 1.49 (1.42-1.56)
- > for COCs (AHR 1.72)
- -Earlier initiation of COCs higher rate ratio for depression dx/Antidepressant Rx
- -Small absolute risk (1.36 increased to 1.54) 1.8 cases per 1000 women

What is the counterfactual?

- What about the patients with an unintended pregnancy?
 - Is the comparison HC vs no HC?
 - Hc vs no HC/no pregnancy, HC vs pregnancy

> Front Endocrinol (Lausanne). 2022 Mar 11;13:799675. doi: 10.3389/fendo.2022.799675. eCollection 2022.

The Impact of Hormonal Contraceptive Use on Serotonergic Neurotransmission and Antidepressant Treatment Response: Results From the NeuroPharm 1 Study

Søren Vinther Larsen ^{1 2}, Brice Ozenne ^{1 3}, Kristin Köhler-Forsberg ^{1 2 4},
Asbjørn Seenithamby Poulsen ¹, Vibeke Høyrup Dam ¹, Claus Svarer ¹, Gitte Moos Knudsen ^{1 2},
Martin Balslev Jørgensen ⁴, Vibe Gedso Frokjaer ^{1 2 4}

MEC guidelines for depression

Condition	Sub-Condition	CHC		POP		Injection		Implant		LNG-IUD		Cu-IUD	
		1	С	1	С	1	С	1	С	1	С		С
Depressive disorders		1*		1*		1*		1*		1*		1*	

Specific to combined hormonal

Clarification: If a woman is receiving psychotropic medications or St. John's wort, see Drug Interactions section.

Evidence: COC use was not associated with increased depressive symptoms in women with depression or scoring above threshold levels on a validated depression screening instrument compared with baseline or with nonusers with depression. One small study of women with bipolar disorder found that oral contraceptives did not significantly change mood across the menstrual cycle (207).

Consensus opinion: No change to initial contraceptive decision making indicated

Recommending Contraception for Women with Depression and/or Anxiety

Evaluate for medication interactions

Enzyme-inducing agents (eiAEDs, MAOIs, TCAs, St. John's wort):

1st choice: IUD (or DMPA)

Not recommended:

implant, ring, patch, combination OCs or Progestin only pills

d/t both potential decrease in efficacy and for any HC, toxicity of TCA, MAOI

No med interaction (SSRIs, SNRIs) and no CI to estrogen:

Individual clinical decision making.
No restrictions.

If a non-hormonal method selected □ no med adjustment needed

If a combined hormonal method is recommended for a patient taking Lamotrigine: discuss with prescriber for AED adjustment

Re-evaluate if any changes in meds or contraception needed

Recommending Contraception for Women with Depression and/or Anxiety

Discuss
contraceptive
preferences
and needs;
counsel based
on potential
adherence, or
mood side
effect
concerns

For adherence concerns:

1st choice: LARC or sterilization 2nd choice: DMPA, implant, ring or patch

EC as back-up

Not optimal:

COCs (daily)

Not recommended:

Progestin only pills

Mood side effect concerns:

Reversible, low-dose or non-hormonal methods. Consider continuous dosing or extended cycle options.

PMDD

Most HC will improve symptoms, esp. extended cycle or continuous. Drospirenone COCs approved for treatment

Postpartum
contraception
All methods
acceptableminimize estrogen
< 3 mo d/t VTE
risk

When seeing a reproductive age woman, consider adding this routine screening...

Would you like to become pregnant in the next year?

What if Contraception Fails?

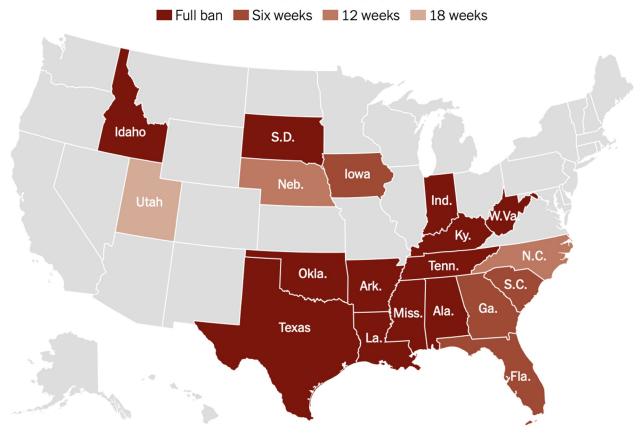
- > 1 million abortions in the US in 2024
 - 1 in 5 pregnancies end in abortion
- 92% in the first trimester
 - Aspiration
 - > 50% Medication abortion (up to 11 weeks GA)

Tracking Abortion Bans Across the Country

By Allison McCann and Amy Schoenfeld Walker

Updated April 28, 2025 at 4:51 p.m. E.T.

Where abortion bans are in effect



Summary

 We have an uphill battle to combat the misconception that patients with neurologic disease cannot use contraception

 Helping our patients plan their pregnancies increases maternal health and pregnancy outcomes