

**Table 1a: Benefits** <sup>1,2,11,13,14</sup>

- ◆ **Simple & highly effective** (99.7% if perfect use; >92% if typical use) {inhibit ovulation, endometrial effects, cervical mucus effects, tubal peristalsis}
- ◆ Reduces need for sterilization & abortion
- ◆ **Significantly improves menstrual symptoms & regularity**
  - ◆ ↓ dysmenorrhea & mittelschmerz, abnormal uterine bleeding;
  - ◆ ↓ menstrual blood loss (up to 50%), risk of anemia & PMS,
  - ◆ ↓ premenstrual dysphoric disorder; ↑ cycle control.
  - ◆ Alleviates menorrhagia/hot flashes in perimenopausal.
- ◆ **Decreases relative incidence of disease**
  - ◆ ↓ bacterial pelvic inflammatory disease by 60%
  - ◆ ↓ **endometriosis** <sup>Leyland SOGC<sup>10</sup></sup>; ↓ salpingitis
  - ◆ ↓ **endometrial cancer** by >50% from 2.3→1.3 per 100 ♀ after 10yrs \*
  - ◆ ↓ **ovarian cancer** by 40%; **NNT=185/≤5yrs**\* (benefit also detected in newer oral CHC within 1 year, progesterone-only pill= limited data <sup>13</sup>)
  - ◆ ↓ ovarian cysts by ?>60%
  - ◆ ↓ colorectal cancer
  - ◆ ↓ fibrocystic, benign breast disease by ?50-75%
  - ◆ ↓ **osteoporosis** (↑ bone density) ◆ ↓ ectopic pregnancy
  - ◆ ↓ acne & hirsutism ◆ ? ↓ overall & colorectal cancer

\*benefit greatest with long-term use (>5yr) & persists up to 15 yrs after D/C

**Table 1b: Risks** <sup>1,2,11,14</sup>


- ◆ **Venous Thromboembolism (VTE)** - absolute risk:<sup>16</sup>  
**Theory:** estrogen ↓ Protein C activation so ↑ thrombus risk<sup>3,4,5</sup>  
**Baseline:** Non-CHC users: <4-5 per 10,000/year; ↑ with age e.g. >39yrs  
**CHC Users:** 8-9 / 10,000/yr (up to 14/10,000); **highest in 1<sup>st</sup> year**  
**Pregnancy** 29 / 10,000/yr (immediate post-partum period: 300-400 / 10,000/yr)  
 (estrogens ↓ activation of Protein C so ↑ thrombus risk)<sup>3,4,5</sup>  
**↑Risk:** age ≥40yr, obese, smoking, inherited thrombophilia, VTE hx  
 -? slight ↑ risk with drospirenone, but some data suggests not (see RxFiles **YAZ / YAZMIN VTE Q&A**)  
**May ↓Risk:** ↓ estrogen dose & **levonorgestrel/norethindrone/norgestimate**
- ◆ **Arterial Thrombosis (MI & stroke):** absolute risk is low; no significant ↑ risk over baseline in young non-smoking ♀;  
**↑Risk:** estrogen <sup>≥50mcg/day</sup>, age >35, smoking, HTN & RF CVD (↑~2-3x); type of progestin or CHC method used e.g. oral, patch unlikely to alter risk.<sup>6</sup>
- ◆ **Breast Cancer:** controversial, ↑ ? 1.3x; persists for <10yrs after D/C (also may relate to nulliparity/delay in childbearing)
- ◆ **Cervical Cancer:** ↑ 1.5x with long-term use (>5yr)<sup>7</sup>; (but may relate to early sexual activity & multiple partners ⇒ HPV)  
 (10yrs' use starting at age 20 may ↑ cumulative cancer incidence at age 50 from 3.8 to 4.5/ 1000 ♀)
- ◆ **BMD:** ≤20mcg ethinyl estradiol associated with ↓ BMD in adolescents
- ◆ Does **not** protect against sexually transmitted infections
- ◆ May ↑ and/or precipitate: HTN, HF, diabetes, Raynauds, gallbladder/liver/pancreatitis dx, severe SLE, migraine headache, depression <sup>Skovlund<sup>16</sup></sup>, GERD, vaginal yeast infections, ↑ triglycerides.
- ◆ ? may impact (↑ or ↓) sexual function
- ◆ Failure esp. if missed doses with ≤20mcg estrogen formulations

**Drug causes of oral CHC failure:** Alcohol (excessive chronic), ABX: rifamycin (ABX non-rifamycin don't ↓ the efficacy of COC<sup>14,15</sup>, unless GI upset<sup>↑</sup>absorption, see Table 6), Anticonvulsants (see seizure chart), Antivirals (boceprevir, efavirenz, nelfinavir, ritonavir), aprepitant, bosentan, colesevelam, elagolix, lesinurad, modafinil, orkambi, sarilumab, Red clover & St. John's Wort. Ulipristal: wait 5 days before starting COC.


**GLP-1 agonists** e.g. liraglutide, semaglutide, dulaglutide: space administration.  
**Management:** Acute tx (e.g. antibiotics): consider backup-method during & for 7 days after. Chronic tx: consider higher estrogen containing product.

**DJ:** estrogens-moderate Θ of CYP 1A2; progesterone's Θ P-gp

**Table 2a: Contraindications** <sup>1,14</sup>

- ◆ Active thromboembolic disease; current or past VTE
- ◆ Heart disease: ischemic or complicated valvular
- ◆ Uncontrolled HTN (systolic ≥160mmHg; diastolic ≥100mmHg)
- ◆ History of cerebrovascular accident
- ◆ Diabetes with retinopathy/nephropathy/neuropathy
- ◆ Undiagnosed uterine bleeding
- ◆ Liver disease  (acute hepatitis, severe cirrhosis, or tumour)
- ◆ Known/suspected breast CA ◆ HA with focal neurological sx
- ◆ **Pregnancy** (no benefit; fetal risk of inadvertent exposure appears low)
- ◆ **Post-partum:** avoid in ≤21 days; & if ↑VTE risk, avoid ≤42-84 days; may avoid < 4-6 wks postpartum if **breastfeeding**
- ◆ **Smoker over age 35** and ≥15 cigarettes/day
- ◆ **Migraine** with focal neurologic sx (i.e. aura) or >35yrs (↑CVA)

**Table 2b: Precautions** <sup>1</sup> {see **DJ**: left column}

- ◆ **Hypertension:** may use po CHCs e.g. EE ≤35mcg if HTN controlled
- ◆ **Diabetes:** low dose CHCs unlikely to affect glucose control but estrogen may complicate vascular disease
- ◆ **Epilepsy:** some anticonvulsants ↓ CHC efficacy; see seizure chart [page 155](#) for preferred contraceptives
- ◆ **Hepatitis, cirrhosis** : avoid CHCs if active disease; may use if liver enzymes returned to normal / mild cirrhosis
- ◆ **Symptomatic Gallbladder disease:** may be exacerbated
- ◆ **IBD:** diarrhea may ↓ po CHC absorption requiring backup (if >24hr, follow missed pill instructions); ↑VTE risk if mod-severe
- ◆ **Systemic lupus erythematosus (SLE):** inactive/stable SLE ok, but unknown for severe active or if antiphospholipid antibodies/hypercoagulable states
- ◆ **Smoker, older age** e.g. 35-55yr, **obese** BMI>30, <sup>Kaunitz NEJM<sup>08</sup></sup> or **hx of embolic events:** higher risk of VTE with CHCs. Consider progesterone-only eg IUD, implant or non-hormonal instead.
- ◆ **Bariatric Surgery:** may ↓ po CHC absorption, non-oral preferred
- ◆ **Obesity/BMI>30:** unlikely, but possible, ↑ in failure rate
- ◆ **Porphyria**

**Table 3: Starting Contraceptives** see [pg 163](#) below

- Starting Oral Combined Hormonal Contraceptive (CHC):**
- ◆ most effective if started Day 1 of menstrual period but can be started any day
  - ◆ to avoid weekend period, start on 1st Sunday after period begins
  - ◆ use backup method for first 7 -10 days (especially if started after Day 5)
- Starting NUVARING CHC:** (if no hormonal contraceptive use in the past mos)
- ◆ inserted on or prior to Day 5 of the cycle (even if the patient has not finished bleeding). Backup barrier method recommended until after the first 7 days during the 1<sup>st</sup> cycle.
- Starting EVRA Patch CHC:**
- ◆ apply on Day 1 of menstrual period; or to avoid weekend period, start on 1st Sunday after period begins & use backup method for 1<sup>st</sup> wk of 1<sup>st</sup> cycle only. "Patch Change Day" will be on same day every week
- Starting Progestin-only Pill (POP):** irregular bleeding common
- ◆ start on Day 1 of menstrual period and daily thereafter
  - ◆ use backup method for first 7 days
  - ◆ take pills at the same time each day to ↓ BTB & pregnancy<sup>11</sup>
- Starting DEPO-PROVERA:** (only contains progesterone)
- ◆ inject during 1<sup>st</sup> 5 days of menses or anytime if pregnancy ruled out
  - ◆ repeat inj q12wks<sup>210</sup> weeks if on meds which ↓MPA level -effective up to 14 weeks
  - ◆ return of fertility delayed 4-31 (median 10) months after last inj<sup>11</sup>

**Table 4: ACHES - CHCs Early Danger Signs** <sup>8</sup>

SIGN	PROBLEM
Abdominal pain (severe)	gallbladder disease, pancreatitis, hepatic adenoma, thrombosis
Chest pain (severe), SOB	pulmonary embolus or acute MI
Headaches (severe)	stroke, hypertension, migraine
Eye problems -blurred vision, flashing lights, blindness	stroke, hypertension, vascular insufficiency
Severe leg pain (calf or thigh)	deep vein thrombosis (DVT)

**Table 5: Adverse Events & Their Management** <sup>1,9,14</sup>

- See also Table 8 on next page.**
- ◆ **Breakthrough bleeding (BTB)** - most common in 1<sup>st</sup> 3 months; if persists beyond 3-6 months check for other causes (e.g. chlamydia). Change to CHC with ↑ estrogen if early bleeding (days 1-9) or CHC with ↑ progestin if later bleeding (days 10-21); may also be related to poor adherence, smoking, DIs.
  - ◆ **Breast tenderness** - if persists beyond 1<sup>st</sup> 3 months rule out pathologic causes; change to CHC with less estrogen
  - ◆ **Weight gain** - may ↑ appetite in 1<sup>st</sup> month but overall little or no weight gain with low dose CHCs (or POP) & within normal limits for age-related gain; may be cyclical due to Na<sup>+</sup> & H<sub>2</sub>O retention. **YASMIN, YAZ:** possible less weight gain (?diuretic effect)
  - ◆ **Nausea** - often subsides within 3 months; take at HS with food or change to lower estrogen content
  - ◆ **Headache** - tension headaches unaffected but hormone related or vascular migraines may ↑ or ↓ esp. with continuous long-cycle, if precipitated or exacerbated by CHCs should avoid their use
  - ◆ **Acne** - sometimes worsens initially but usually improves in the long-term; change to ↓ androgenic CHC (desogestrel, norgestimate, and drospirenone) or use topical therapy
  - ◆ **Mood Changes** - reported; no different than placebo in trials
  - ◆ **Chloasma** - irreversible and idiosyncratic; exacerbated by sunlight so use sunscreen & reduce exposure; ↓ estrogen dose

**Table 6: Sick days (with vomiting +/- or diarrhea)**

- ◆ No specific data pertaining to effects of severe vomiting or diarrhea; consider similar management as for missed doses<sup>CDC<sup>13</sup></sup>
- ◆ **Oral CHC** - if vomiting or diarrhea occurs within 24 hours of taking pill, or extends up to 24-48 hours, continue taking pills as usual; if illness continues >48 hours, see missed pill section for management; consider backup method or emergency contraception especially if within the first 7 days of cycle
- ◆ **Progestin-only pill** - vomiting or diarrhea within 3 hours of taking pill, take another pill if able to tolerate & continue as usual; consider backup method until 2 days after symptoms resolve &/or until pills have been taken consistently for 2 days

**Contraceptive Health Counselling** <sup>ACOG<sup>17</sup></sup>: 1<sup>st</sup> visit 13-15 yrs; develop rapport & personalize discussion for shared decision making; contraception, STIs, prevention strategies (e.g. HPV vaccine)

CHC=combined hormonal contraceptive i.e. combined hormonal oral, patch, or ring  
 COC=combined oral contraceptive POP=progestin-only pill

ORAL COMBINED HORMONAL CONTRACEPTIVES (CHC): CHART SOGC<sup>15</sup>



Multiphasic pills may have lower hormone dose per cycle, but lack evidence for less adverse effects or advantage over monophasic

	ORAL CONTRACEPTIVES BRAND NAME; generic g	COMPONENTS E=estrogen P=Progestin A=Androgen	HORMONAL ACTIVITY			\$ COST (12mon)
			E	P	A	
1 <sup>st</sup> Generation	MINESTRIN 1/20	Ethinyl estradiol 20 mcg Norethindrone 1 mg	+	+++	+++	248
	LOESTRIN 1.5/30	Ethinyl estradiol 30 mcg Norethindrone 1.5 mg	++	+++	++++	248
	DEMULEN 30	Ethinyl estradiol 30 mcg Ethinodiol diacetate 2 mg	++	++++	+++	267 <sup>21-pack</sup> 281 <sup>28-pack</sup>
	BREVICON 0.5/35	Ethinyl estradiol 35 mcg Norethindrone 0.5 mg	+++	+	+	249
	SYNPHASIC (Biphasic)	Ethinyl estradiol 35 mcg Norethindrone 0.5 mg x12; 1mg x 9tab	+++	++	++	232
	BREVICON 1/35; g=SELECT 1/35	Ethinyl estradiol 35 mcg Norethindrone 1mg	+++	+++	+++	249 200 <sub>g</sub>
2 <sup>nd</sup> Generation	LoLo X ▼	Ethinyl estradiol 10 mcg Norethindrone 1mg	+	+++	+++	293
	ALESSE g=AVIANE, ALYSENA, ESME, LUTERA	Ethinyl estradiol 20 mcg Levonorgestrel 0.1 mg	+	+	++	267 161 <sub>g</sub>
	TRIQULAR (Triphasic)	Ethinyl estradiol 30 - 40 - 30 mcg Levonorgestrel 0.05 - 0.075 - 0.125 mg	++	+	++	268
3 <sup>rd</sup> Generation	MIN-OVRAL g=PORTIA, OVIMA	Ethinyl estradiol 30 mcg Levonorgestrel 0.15 mg	++	++	+++	286 156 <sub>g</sub>
	MARVELON g=APRI, FREYA, MIRVALA, RECLIPSEN	Ethinyl estradiol 30 mcg Desogestrel 0.15 mg	++	+++	+	300 163 <sub>g</sub>
	CYCLEN	Ethinyl estradiol 35 mcg Norgestimate 0.25 mg	+++	+	+	440
	LINESSA (Triphasic)	Ethinyl estradiol 25 mcg Desogestrel 0.1 <sup>yellow</sup> - 0.125 <sup>orange</sup> - 0.15 <sup>red</sup> mg	++	+++	+	266
	TRI-CYCLEN, g <sup>Tri-Jordyna</sup> (Triphasic)	Ethinyl estradiol 35mcg {LO 25mcg}	+++	+	+	345 <sub>g</sub>
	TRI-CYCLEN-LO, g <sup>TRICIRA-Lo</sup>	Norgestimate 0.18 <sup>white</sup> - 0.215 <sup>blue</sup> - 0.25 <sup>blue</sup> mg	Sequence: 7-7-7 tabs			185 <sub>g</sub>
4 <sup>th</sup> Generation	YASMIN g=ZAMINE, ZARAH	Ethinyl estradiol 30mcg Drospirenone 3mg	++	++ (?)	-	224 179 <sub>g</sub>
	YAZ; g=MYA (PLUS-0.45mg levomefolate X ⊗)	Ethinyl estradiol 20 mcg Drospirenone 3mg	+	++ (?)	-	278, 224 <sub>g</sub> {PLUS 226}

Table 7. New Ways and Means...

**Standard Dosing:** Failure rate: ≤0.3% perfect use; 3-9% typical use (may be higher with low-dose preps if doses missed)

**Extended/Continuous Dosing:** (e.g. long-cycle regimen) consecutive administration of active pills (e.g. 3-6-12 months) followed by 4-7 day hormone free interval (menses is no different than traditional dosing).

♦ **Advantages:** ↓ adverse symptoms during hormone free interval (e.g. pelvic pain, headache / migraine, bloating, swelling, breast tenderness); ↓ anemia (e.g. fewer moderate/heavy withdrawal bleeds); Legro<sup>07</sup> ↓ endometriosis; ↓ PCOS; convenience (sports, vacation); ? ↑ adherence

♦ **Disadvantages:** no long-term safety data (>2 years & extra 9 weeks/year of exogenous hormone exposure); initially more breakthrough bleeding, but ↓ with time; possible delay in recognition of pregnancy; ↑ cost (but may offset ↓ in feminine hygiene product use)

♦ ? shorter hormone free intervals may ↓ risk of ovulation

♦ **SOGC:** any CHC contraceptive with <50mcg of ethinyl estradiol may be used oral mono- or multi-phasic ? ↑ breakthrough bleeding, vaginal NUVARING, transdermal EVRA

♦ **Commercially formulated extended use oral CHCs:**  
**SEASONALE** Indayo g \$250 X ▼ (91 day pack: 84 x Levo 0.15mg + EE 30mcg + 7 placebo \$330/yr)  
**SEASONIQUE X ▼** (91 day: 84 x Levo 0.15mg + EE 30mcg + 7x EE 10ug \$330/yr). <sup>LeSeasonique FDA</sup>

♦ ↑ amenorrhea: CHCs with 1mg norethindrone acetate<sup>NETA</sup> vs 100mcg levonorgestrel<sup>1</sup>

**Vaginal Admin of oral CHCs:** ? ↓ AE by avoiding 1<sup>st</sup> pass metabolism, but unknown safety profile for this route and hormone absorption can be potentially quite high.

**New Products:** (in the USA but not Canada; some contain folic acid)  
♦ **MIRCETTE** USA : 28day pack with 21 active tabs (0.15mg desogestrel + 20mcg EE) followed by 2 placebo tabs; then 5 tabs of EE 10mcg (↓ risk of missing first active pills of 21day cycle with ultra-low dose products)  
♦ **NATAZIA** USA: estradiol valerate (new type of estrogen) + progestin: dienogest 26/2day pill regimen  
♦ **BEYAZ** USA: EE+drosiprenone+levomefolate 24/4 day pill regimen; **LOESTRIN FE** USA: 10mcg EE.

**Missed pills:** SOGC<sup>08</sup> Consider emergency contraception (EC) in 1st wk if unprotected intercourse in last 5d)  
♦ If 1 pill delayed <24hrs: take ASAP (as soon as possible). No backup method or emergency contraception necessary.  
♦ Week 1: If ≥1 pill missed, take 1 pill ASAP & continue till end of pack. Backup method x7days. ?EC  
♦ Week 2 or 3: If <3 pills missed, take 1 pill ASAP & daily till end of pack; Start new cycle without HF.  
If ≥3 pills missed, take 1 pill ASAP & daily till end of pack; Start new cycle without HF!  
Backup method for 7 days; consider emergency contraception if repeated or prolonged omission.  
♦ CDC Recommendations for Missed/Late oral CHCs: [tinyurl.com/CDC-missedCOC](http://tinyurl.com/CDC-missedCOC)

Table 8. Product Selection guided by Signs & Symptoms of...

Estrogen Deficiency	Progestin Deficiency	Estrogen Excess +/- Progestin Deficiency	Excess Estrogen	Excess Progestin	Excess Androgen	ACNE See RxFiles: Acne, pp 31-34
<ul style="list-style-type: none"> <li>early bleeding &amp; spotting days 1-9</li> <li>pelvic relaxation sx</li> <li>atrophic vaginitis</li> <li>vasomotor symptoms</li> <li>continuous bleeding or spotting</li> <li>↓ in flow</li> <li>absence of withdrawal bleeding</li> <li>nervousness</li> </ul>	<ul style="list-style-type: none"> <li>late bleeding and spotting days 10-21</li> <li>delayed withdrawal bleeding</li> </ul>	<ul style="list-style-type: none"> <li>hypermenorrhea, menorrhagia</li> <li>nausea, vomiting</li> <li>headache (cyclic)</li> <li>visual changes (cyclic)</li> <li>weight gain (cyclic)</li> <li>PMS</li> <li>dizziness</li> <li>leg cramps</li> <li>dysmenorrhea</li> </ul>	<ul style="list-style-type: none"> <li>hypermenorrhea, clotting, menorrhagia</li> <li>↑ breast size or cystic change</li> <li>cervical ectrophy</li> <li>↑ uterine or fibroid growth</li> <li>vascular headaches</li> <li>dysmenorrhea</li> <li>hypertension</li> <li>thromboembolism</li> <li>UTI</li> </ul>	<ul style="list-style-type: none"> <li>depression</li> <li>breast tenderness</li> <li>libido decrease</li> <li>weight gain (non-cyclic)</li> <li>↑ appetite</li> <li>sx: hypoglycemia, dizzy</li> <li>yeast infection</li> <li>leg vein dilation</li> <li>fatigue</li> <li>hypertension</li> <li>cervicitis</li> </ul>	<ul style="list-style-type: none"> <li>oily skin / scalp</li> <li>↑ libido</li> <li>rash &amp; pruritus</li> <li>cholestatic jaundice</li> <li>hirsutism</li> </ul>	<ul style="list-style-type: none"> <li>All CHCs can be beneficial in acne - due to estrogen binding to sex hormone binding globulin (SHBG)</li> <li>Official Acne Indication <b>ALESSE</b>, <b>TRI-CYCLEN g</b>, <b>YASMIN</b>, <b>YAZ &amp; DIANE 35/CYESTRA-35 X ▼</b> \$586, \$387<sub>g</sub></li> <li><b>DIANE 35:</b> EE 35mcg + cyproterone 2mg; Health Canada April 2003 warning: not for contraception only; stop within 4months of acne resolution; however indicated for contraception in some other countries.</li> </ul>

**Emergency Contraception:** emergency contraception (EC) pills taken within 3-5 days of unprotected/inadequately protected sex can delay/inhibit ovulation & therefore prevent fertilization, NOT implantation (less effective after ovulation); will not terminate an existing pregnancy; malformations not reported. Decreases Pregnancy rate from an expected ~8% to ~1%. MedLet<sup>06</sup> Consider: Schedule follow-up same day, next day or next period with a doctor after EC use for ongoing contraception or STI testing.<sup>AAP</sup>

1) Levonorgestrel <sup>DOC</sup> Rx not required <sup>Sched III (SK)</sup> (i.e. <b>PLAN B</b> )	1.5mg x 1 dose; OR 0.75mg STAT then 0.75mg in 12hr	Preg rate= 2.2% (<72hrs), 2.6% (<120hrs) Glasier <sup>10</sup> (↓ efficacy BMI>26)	AE: HA, irregular bleeding, N/V (↑ with Yuzpe method) DJ: 3A4 inducers (e.g. CBZ, St. John's Wort)
2) Yuzpe (COC): {1 dose= 100mcg EE/0.5mg levonorgestrel}	1 dose stat (e.g. 1 dose= 5 ALESSE pills), repeat in 12hr	Preg rate= 2.5-2.9% (<72hrs) Shen <sup>19</sup>	N/V: •Levonorgestrel & Yuzpe- repeat dose if vomiting ≤2hrs after ingestion
3) Ulipristal <b>ELLA</b> X ⊗ \$339	30mg x 1 dose; delay restarting OC for 5 days due to DI	Preg rate= 1.4% (<72hrs), 1.6% (<120hrs) Glasier <sup>10</sup> (↓ efficacy BMI>30)	•Ulipristal- repeat dose if vomiting ≤3 hours after ingestion → <b>GRAVOL</b> - 30 min prior to dose
4) Copper IUD: listed in Hormonal Birth Control Chart pg. 163	Insert within 5-7 days if pregnancy is ruled out	Preg rate <0.1% <sup>Cleland<sup>12</sup></sup> even after ovulation	MOA: Inhibits sperm function and prevents endometrial receptivity, 1 <sup>st</sup> line BMI ≥30 (efficacy not affected)

**Medical Abortifacient:** MIFEGYMISO 200mg po mifepristone<sup>RU-486</sup>, then 800mcg buccal misoprostol 24-48h later; within 63 days FDA-70 days; Dr follow up 7-14 days; \$300 Free coverage Sask.; pharmacist may dispense; CI: sepsis, ectopic pregnancy, chronic adrenal failure, inherited porphyria, uncontrolled asthma, ↑ bleeding.

X =non-formulary SK ▼=covered NIHB Z=prior NIHB sx=symptom BMD=bone mineral density DOC=drug of choice HFI=hormone free interval. Note: 21 & 28 tablet packs available for most oral CHCs (~same cost; 28 has 7 inert tablets). Compassionate Contraceptive Assistance Program: [compassion.sogc.org](http://compassion.sogc.org) D/C: oral CHC ORTH-NOVUM 1/50, ORTHO 0.5/35, ORTHO 1/35, TRIPHASIL, OVRAL, ORTHO-CEPT, LYBREL; IUD JAYDESS, NOVA-T; IMPLANT NORPLANT

## Extras for Hormonal Contraception:

Preventing Gaps when Switching Contraceptives. Lesniewski '11

Switching from →	Switching to	Comments
Combined OC, progestin only pill	Combined OC, progestin only pill	◆switch <b>directly</b> from one pill to another; do not miss a day
Combined OC	Patch or Ring	◆start patch <b>day before</b> last pill; start ring <b>day after</b> last pill ◆Do not need to complete pill cycle before switch
Patch or Ring	Combined OC	◆start pill day <b>before</b> scheduled to remove patch/ring; i.e. no more than 8 days after last patch (effective up to 9 days) or 34 days after ring (effective up to 35days) ◆Do not need to complete full cycle for patch/ring before pill starts
Patch	Ring	◆insert ring & remove patch on <b>same day</b>
Ring	Patch	◆Apply patch <b>2 days before</b> ring removal
Combined OC, patch or ring	Progestin IUD or injection	◆Continue pill, patch or ring <b>x 7days</b> (or use barrier)
Copper IUD	Progestin IUD (i.e. Mirena)	◆Use barrier <b>x 7 days</b> ; return to <b>fertility</b> may be immediate
Copper IUD	Progestin injection (i.e. Depo-Provera)	◆Give injection <b>7 days before</b> IUD removal; if done on same day, use <b>barrier x 7days</b>
Copper IUD	Combined OC, patch, or ring	◆Start new method <b>7 days before</b> removal of IUD or use <b>barrier x 7days</b>
Progestin IUD (i.e. Mirena) or injection (i.e. Depo-Provera)	Combined OC, patch, or ring	◆Start new method <b>7 days before</b> removal of IUD or next injection (i.e. may start new method <b>up to 15 weeks after</b> last injection)
Combined OC, patch or ring	Copper IUD	◆Can insert copper IUD up to <b>five days</b> after stopping pill, patch or ring
Progestin IUD (i.e. Mirena)	Copper IUD	◆Can insert copper IUD <b>right after removing</b> progestin IUD
Progestin injection (i.e. Depo-Provera)	Copper IUD	◆Can insert copper IUD <b>up to 16weeks after</b> the last shot

**Consider:** Abstain from sexual intercourse or use a barrier method (condoms +/- spermicide) if no overlap in methods for a minimum of 7days for most switches (see above table for exact number of days in bold print)

**Consider EC when OC pills missed:** (SOGC Clinical Practice Guideline – Emergency Contraception in J Obstet Gynaecol Can 2012;34(9): 873. )

- 1 missed combined oral contraceptive pill in the first week
  - 3 or more combined oral contraceptive pills missed in the 2<sup>nd</sup> or 3<sup>rd</sup> week
  - 1 or more pills missed on Progestin only pill
- Or when Depo-Provera injection late by 2weeks or more.

**“Patient Friendly” Statistics for Contraceptive Failure Rates:** <http://www.fda.gov/ForConsumers/ByAudience/ForWomen/ucm118465.htm#hormonal>

**Out of 100 women who use the following method for 1 year:**

- Injection, progestin IUD – 1 may get pregnant
- COC, POP, patch & ring – 5 may get pregnant
- External condoms [aka 'male condoms'] – 11 to 16 may get pregnant
- Diaphragm – 15 may get pregnant
- Sponge – 16 to 32 may get pregnant
- Internal condoms [aka 'female condoms'] – 20 may get pregnant
- Spermicide alone – 30 may get pregnant

**Contraceptive Choices for Post-Partum and Breastfeeding:** (Woodhams, E in Contraception 2012)

- Generally advisable to avoid sexual activity for 6 weeks post-partum although many women resume sexual activity earlier
- Avoid estrogen containing formulations (pills, patch, vaginal ring) for first 3-6 weeks regardless of whether breastfeeding (due to increased VTE risk); if breastfeeding, wait minimum 30days until lactation well established; if other risk factors for VTE, wait 6 weeks
- Progestin only methods (injection, implant, IUD, pill) can all be started immediately post-partum (recent data shows unlikely to interfere with breastfeeding)
- IUD can be inserted immediately post-placental delivery although expulsion rate can be as high as 20% ; if not placed within 10min of placental delivery, wait 6wks
- Diaphragms and cervical caps will need re-fitting after delivery; all other barrier methods can be used immediately post-partum

**After Emergency Contraception** SOGC'15:

Health care providers should **discuss a plan for ongoing contraception** with women who use pills for emergency contraception (EC) & should provide appropriate methods if desired.

Hormonal contraception should be started within 24hrs of taking **levonorgestrel** for EC, & back-up contraception or abstinence should be used for the first 7 days after starting hormonal contraception.

Women who use **ulipristal-EC** should start hormonal contraception 5 days after using ulipristal-EC. Ulipristal-EC users must use back-up contraception or abstinence for the first 5 days after taking ulipristal-EC & then for the first 14 days after starting hormonal contraception.