

Quick start & extended use of
hormonal contraception
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Why was 21/7 invented ???

- Mimics natural cycle => acceptable for women
« menses » means:
 - Not pregnant
 - Predictable bleeding is practical
 - Everything looks normal
- BUT:
 - With 20µg EE: 30% of women have a dominant follicle at the end of Pill Free Period (PFP) =>
> pregnancy (and > spotting) if compliance is not good
 - With 50µg EE or 24/4 regimen of 20µg EE: no dominant follicle in PFP

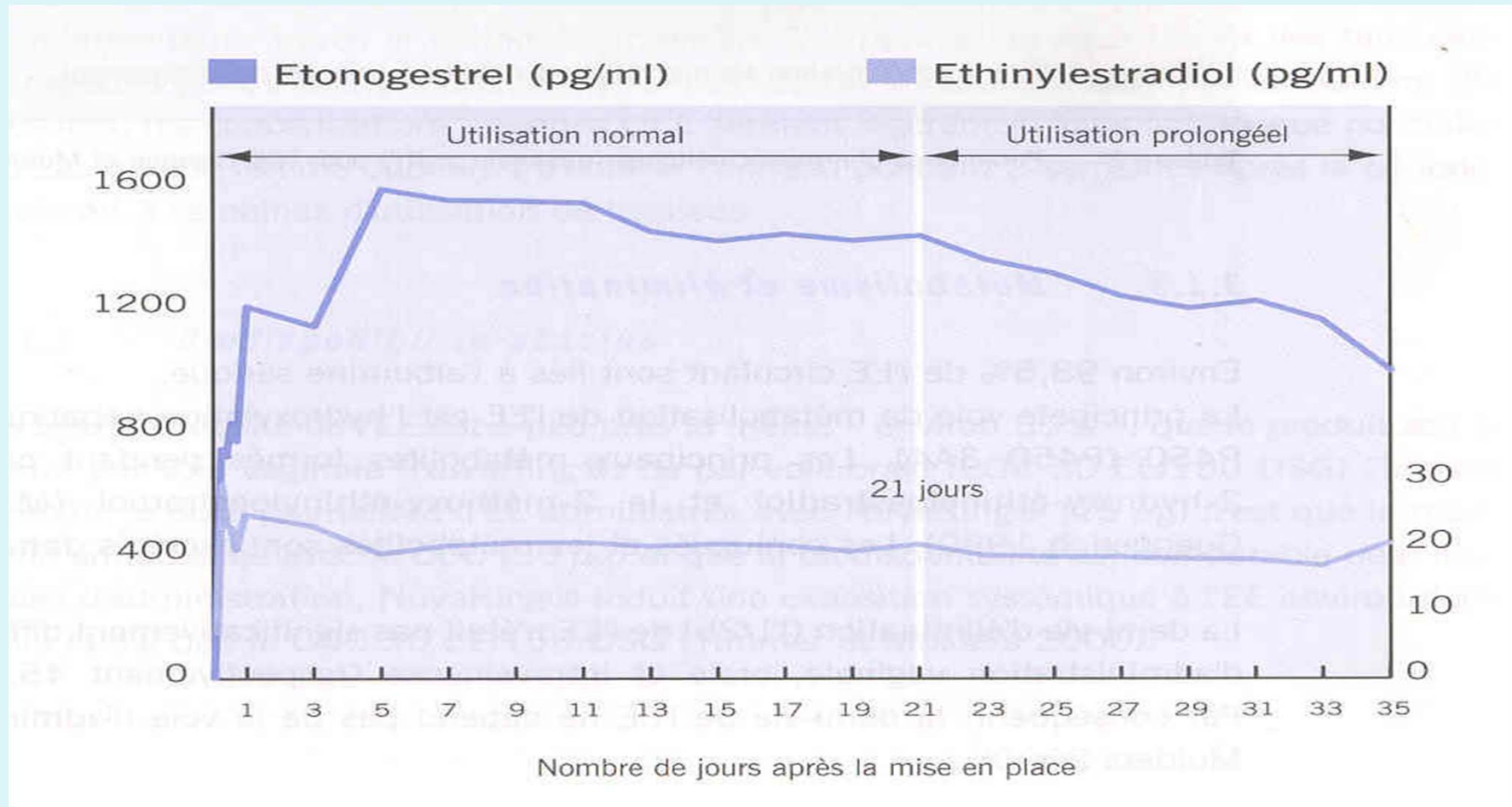
Pill-free Interval (PFI) & COC

- Do women need a monthly pill-free interval? **NO** :
3 or 4 packets can be taken in a row, or continuous use, or **continuous use until bleeding episode** (=> stop 4d:PFI)
- in the following cases PFI can be omitted
 - at the woman's choice
 - Headaches, migraine during PFI
 - Painful or heavy withdrawal bleeds
 - Absent withdrawal bleeds
 - Endometriosis; Von Willebrand
 - Premenstrual syndrome
 - Suspicion of decreased efficacy for any other reason

- **Pro:** **Continuous use of COC**
- Less bleeding in total
- Less « pill-free interval » related side effects (headache, genital irritation, tiredness, bloating, menstrual pain (cochrane 2005))
- Better contraceptive reliability
- **Contra:** if pregnancy: may be discovered late!
- Continuous use : More **unscheduled** bleeding
 - => More dropouts
 - => **10µg EE** in place of placebo during the 7d (day 85-91) improves the bleeding profile: less scheduled and unscheduled bleeding (Kaunitz Contraception 2009)
 - After 10 to 12 months: 80 to 100% are in amenorrhea

Nuvaring: serum concentrations over time

Timmer and Mulders 2000



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Extended use: combined vaginal ring

Sulak Obstet Gynecol 2008

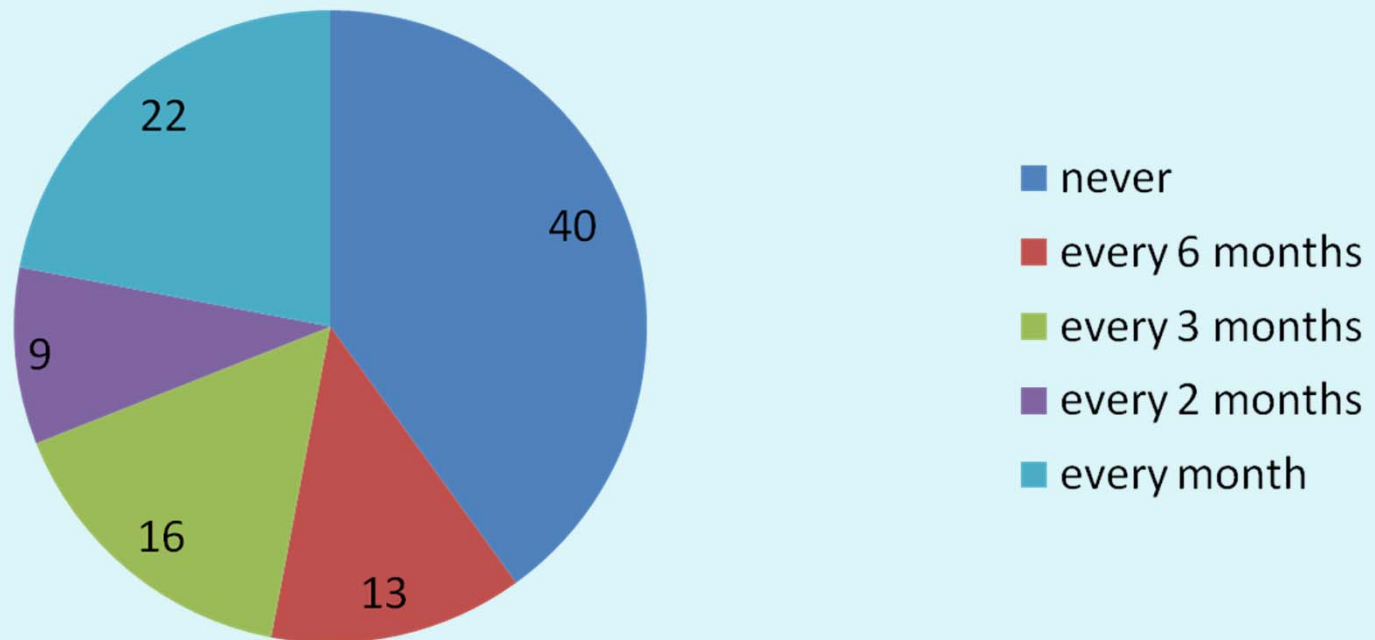
- Best results concerning **spotting**:
- Replace the ring **monthly on the same calendar day** (no ring-free days)
- If breakthrough bleeding/spotting for 5d => remove the ring for **4 days** ; store it and reinsert that same ring

What do women want?

They dont all want the same!

ARHP Greenberg Quinlan Rosner Survey 2005

prefered frequency of menstruation



Attitudes of women about contraception without menses

- Not all women want to suppress menses!
- In some cultures, in some women:
 - No menstruation is felt like infertility, menopause, old
 - they miss the “monthly purification”
 - The bad blood will accumulate in your body and will make you ill

Wait for menses before starting contraception?

- A lot of patients get pregnant while waiting!

Wait for menses before fixing IUD ?

- Insertion of Copper IUD
- Any time within the first 12 days after the start of menses
- Any other time if she is not pregnant (using reliable contraception, or no sex)
- Emergency IUD => see next slide
- No additional contraception is needed
- Insertion of Levonorgestrel IUD
- Any time within the first 7 days after the start of menses .
No additional contraception is needed (WHO)
- Any other time if she is not pregnant (using reliable contraception, or no sex); backup method for the first 7d after insertion.
- Fear that the insertion could be difficult? 2 misoprostol pills evening before insertion (or 3-4 h before insertion) and Ibuprofen
- Immediately after surgical abortion of first trimester (40% will not come back to fix the IUD at follow-up visit)

Copper – IUD as emergency contraception

- **Most effective: prevents > 99% of pregnancies**
 - Within 5 d of unprotected intercourse
 - Within the first 12 days after the start of menses
 - Or maximum up to 5 days after estimated ovulation (= day 19 if regular cycle of 28 d)
- **Emergency-IUD should be an option in real life!**
- Special training
- EC clients are often young, nulliparous: insertion may be painful, difficult
- Risk of STI (new sexual partner, rape) => prophylactic antibiotics? (1g azythromycin or doxycyclin)

Quick start of oral contraception

- **After emergency contraceptive pills**
 - Levonorgestrel => back up for 7d
 - Ulipristal => back up for 14 d

Quick start of oral contraception

Westhoff Obstet Gynecol 2007

- 1716 young women < 25y randomly assigned to: conventional start versus Quick Start
- Directly observed , immediate initiation of the pill improves short-term continuation => second pill-strip (but not at 3 and 6 months follow-up!)
- Quick starters were **slightly less likely to become pregnant within 6 months** (HR 0.9, 95% conf intervall 0.64-1.25)
- **81% rated the Quick Start approach as acceptable or preferable to waiting**

Quick Start: vaginal ring versus pill

(Schafer Contraception 2006 randomized trial)

- 201 women willing to be randomized => 87% follow up
- Start ring or pill immediately with back up 7d
- No pregnancies
- Very satisfied with method (p=.003)
 - 61% of ring users
 - 34% of pill users
- Posttrial contraception (p<.001):
 - Ring users continue ring: 79%
 - Pill users continue pill: 59%
- **Ccl : women starting immediately with the ring were highly satisfied and wanted to continue its use**

Progestogen-only injectables

DMPA 150 mg Petta, Fertil Steril 1998

- DMPA injection on a given cycle day and ovulation
 - Day 8 0/5 women
 - Day 9 0/5
 - Day 10 **1/5**
 - Day 11 & 12 **4/10**
 - Day 13 **4/5**
- All ovulations **within 3d after DMPA** injection
 - **DMPA does not work as an EC** to block ovulation!
- Cervical mucus thickens within 7d of injection
- CCL: if injection after day 7 => backup for 7 days

Progestogen-only injectables

DMPA 150 mg Sneed Contraception feb 2005

- Prospective study with Same Day injection
- 3 pregnancies/149 w when injection \geq day 8 of cycle = **2%**
 - They had injection on day 17, 21 and 40 of cycle
 - They had received EC because of unprotected sex
 - They had negative pregnancy test at time of injection
 - All 3 became pregnant at the time of the injection
 - One reported unprotected sex in the 7d after injection
- Less than half consistently used condoms during 7d !
- Difficult to achieve follow-up pregnancy tests!!!
 - Many reminder phone calls were needed!
 - => **self pregnancy testing!**

Progestogen-only injectables

DMPA 150 mg: Same Day

- **Immediate DMPA after 1st trim abortion => less repeat pregnancies and abortions in next 12 months** (Madden 2009)
- In a young population, Same Day Start DMPA was associated with **improved adherence** to DMPA and fewer pregnancies than the « Bridge group » (Rickert 2007) (first another hormonal method and DMPA after 21 d: only 55% had DMPA in the end! almost 4 times more pregnancies in Bridge group !!)
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- **Risk = delay in diagnosis of pregnancy** with Same Day inj 50% of pregnancies were diagnosed > first trimester (Planned Parenthood) => Less access to abortion and delay in prenatal care

Same Day injection protocol of DMPA

inspired from: Nelson Contraception 2007: 1056 women (historical cohort study)

- Normal protocol: within 5d of start menses (WHO: 7d)
- **If more than 5d since start menses:**
- Emergency contraception needed ?
- Would the woman opt for termination if pregnant?
- Routine sensitive urine **pregnancy test before injection**
- Backup for **7 d**
- **Pregnancy test after 3** weeks if any unprotected sex earlier in the cycle
 - 81% of initial injections were Same Day (> 5d)
 - At each reinjection: 14-27% women came late
 - Risk of pregnancy: 0.66% per Same Day use (but only 27% of women who were given EC returned for a repeat pregnancy test)

Cochrane database 2008

Immediate start of hormonal contraceptives

- **Bleeding patterns and side effects were similar** in trials that compared immediate with conventional start
- Immediate start of DMPA showed fewer pregnancies and higher satisfaction than a *bridge method* before DMPA
- Immediate start of vaginal ring => less bleeding problems than immediate start of COC
- **Ccl: « we found limited evidence that immediate start of hormonal contraception reduces unintended pregnancies or increases method continuation »**
- Pregnancy rate was lower with immediate start of DMPA versus another method

Quick –Start pill initiation

Guttmacher: National survey (USA) in 2005 (Landry Contraception 2008)

- Planned Parenthood clinics: 78%
- Public health departments: 47%
- « other public clinics »: 27%

- Obstetrician-gynaecologists: 38%
- Family physicians: 13%

Quick start & extended use of hormonal contraception

- Should be offered to all women who want it!