

Hystéroscopie

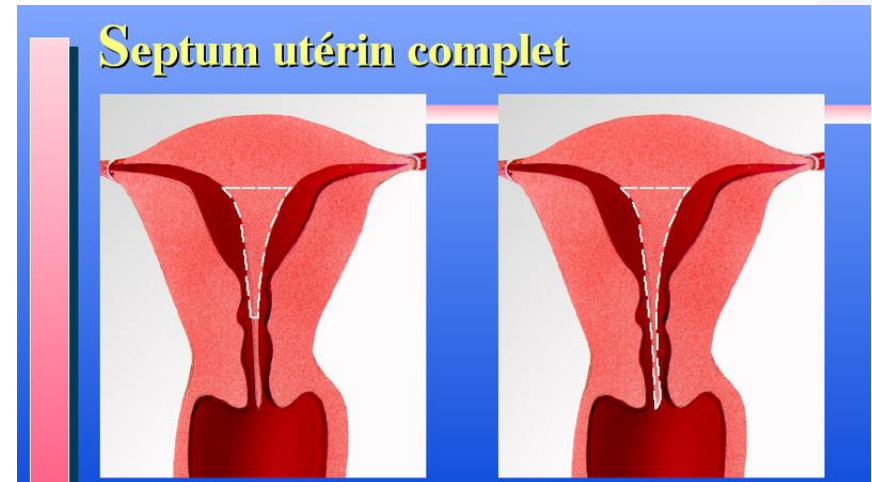
Prof. Jean SQUIFFLET
Service de Gynécologie-Andrologie



Cliniques universitaires
SAINT-LUC
UCL BRUXELLES

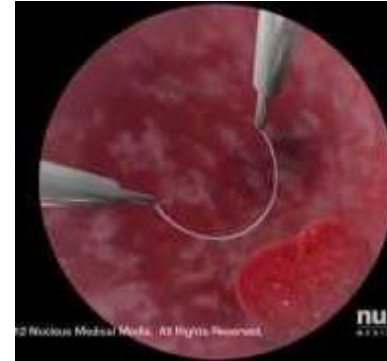
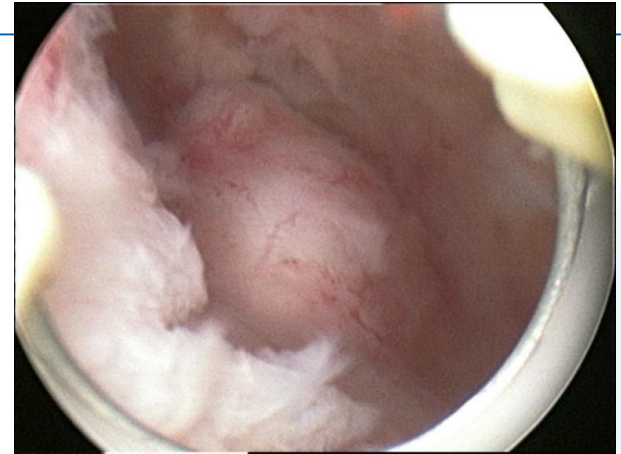
Hystéroscopie diagnostique

- ☐ Métrorragies :
 - Ménopause
 - Non ménopause
- ☐ Infertilité
- ☐ FIV
- ☐ Contrôle postopératoire :
 - Restes trophoblastiques
 - 2 temps
 - Synéchies/septum
- ☐ MAP après C/S – IRM - Scanner



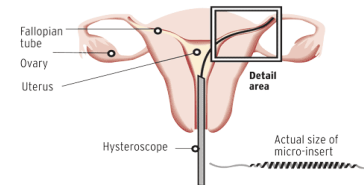
Hystéroscopie opératoire

- ❑ Résection septum, synéchies, polype, fibrome
- ❑ Ablation endométriale (ménorragies)
- ❑ MEP – extraction stérilet
- ❑ Biopsie orientée
- ❑ Stérilisation Essure

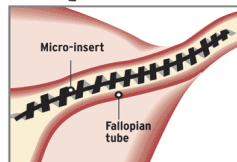


Blocking the tubes

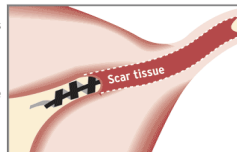
Essure is a procedure where a doctor inserts spring-like coils, called micro-insert, through the vagina, cervix and uterus and into the fallopian tubes. The procedure is permanent. It is an outpatient operation that requires no incisions or anesthesia.



Using a hysteroscope, a doctor places a micro-insert into the fallopian tube. The corkscrew device expands, filling the tube. Doctor removes scope, leaving micro-insert in place.



During the next three months, scar tissue grows around the micro-insert, creating a blockage that sperm can't penetrate.



After three months, a dye is injected in the uterus and a special type of x-ray confirms that the tubes are blocked.

Source: www.essure.com

The Register



Contre-indications

- ☐ PID active ou récente
- ☐ Infection cervico-vaginale aiguë
- ☐ Saignement utérin actif
- ☐ Grossesse intra-utérine évolutive



Traitement préopératoire

- ❑ Post-menstruel
- ❑ GnRHa 1 mois / 2 mois si fibrome
 - Correction anémie
 - Diminution taille fibrome de 30%
 - Endomètre atrophique :
 - Meilleure visibilité
 - Résorption diminuée



Complications

☐ Perforation :

- Incidence 1 à 9%
- Pendant la dilatation :
 - Résection septum
 - Résection fibrome
 - Résection synéchies} myomètre
- Si énergie utilisée : risque viscéral / musculaire / veineux

☐ Saignement :

- Coagulation élective
- Embolisation dans les artères utérines

☐ Embolie gazeuse CO2

☐ Intravasation du médium : salin - glycine

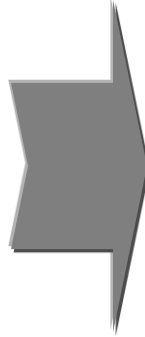


Hormonal replacement therapy during the menopause





Without estradiol and progestin



With estradiol and progestin





With a lot of estradiol and progestin





Without estradiol and progestin



Menopause

- Loss of hormonal ovarian function

- Amenorrhea

Loss of estradiol production by the ovaries

Mean age: **51** yrs

1% before 40 yrs old :premature ovarian failure



years	Life expectancy	Duration of MNP
1850	45	--
1900	50	--
1950	70	19
1960	73	22
1970	79	24
1980	79	28
1990	80	30
2000	80+	30+



Table 3. Estimated Event Rate Increase (Harm) or Decrease (Benefit) per 10 000 Person-Years Associated With the Use of Hormone Therapy

Outcome	Event Rate Difference, per 10 000 Person-Years (95% CI)	
	Estrogen Only	Estrogen + Progestin
Breast cancer (invasive)	-7 (-14 to 0.4)	9 (1 to 19)
Cervical cancer	NA ^a	1 (-1 to 4)
Colorectal cancer	2 (-3 to 10)	-6 (-9 to -1)
Endometrial cancer	NA ^a	-1 (-3 to 3)
Lung cancer	1 (-4 to 8)	1 (-4 to 7)
Ovarian cancer	No data	2 (-1 to 6) ^b
Coronary heart disease	-3 (-12 to 8)	8 (0 to 18)
Dementia (probable)	12 (-4 to 41)	22 (4 to 53)
Diabetes	-19 (-34 to -3) ^b	-14 (-24 to -3) ^b
Fractures (osteoporotic)	-53 (-69 to -39) ^b	-44 (-71 to -13)
Gallbladder disease	30 (16 to 48) ^b	21 (10 to 34) ^b
Stroke	11 (2 to 23)	9 (2 to 19)
Urinary incontinence	1261 (880 to 1689)	876 (606 to 1168)
Venous thromboembolism (DVT or PE)	11 (3 to 22)	21 (12 to 33)
All-cause mortality	1 (-10 to 14)	1 (-9 to 12)

Abbreviations: DVT, deep vein thrombosis; NA, not applicable; PE, pulmonary embolism.

^a Not applicable to women after hysterectomy.

^b Point estimate is slightly different from estimate reported in Manson et al¹⁵ because of the use of relative risks instead of hazard ratios.

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HRT: Cardiovascular

HRT:

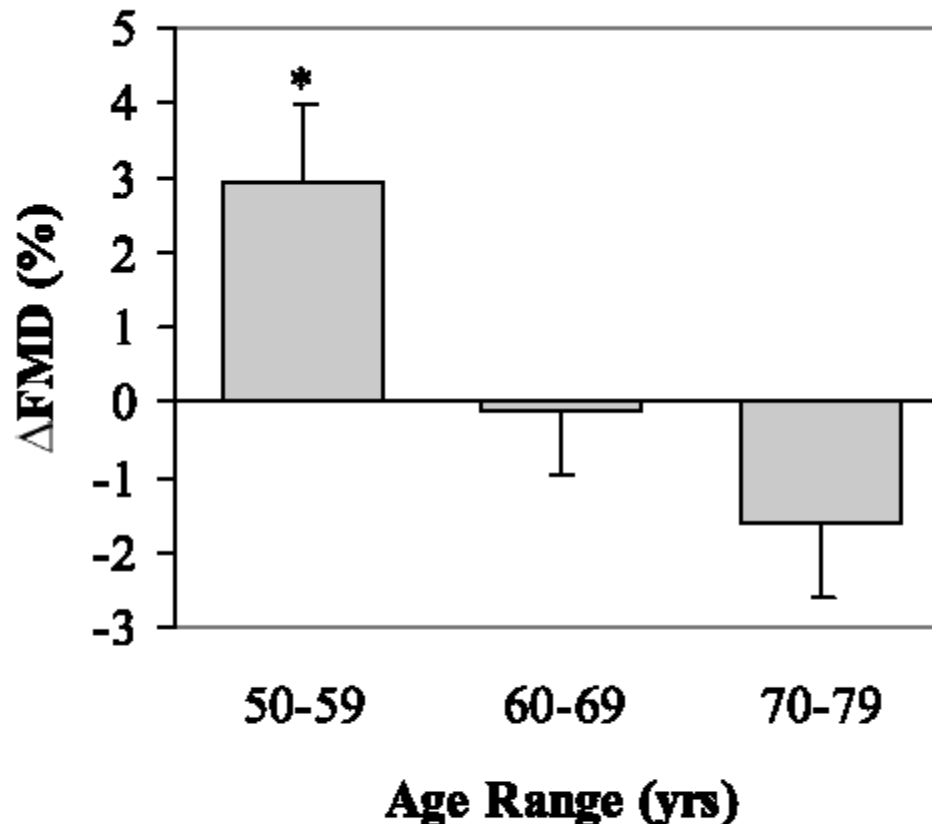
- Vascular function: ↓ blood pressure
- Lipid profile better with oral HRT
- Glycemic profile better with oral HRT

HRT : benefit if started **quickly** after the menopause with patients **without** cardiovascular risk factor.

HRT is harmful if started **a long time** after the menopause or if women have cardiovascular risk factors .



Age Moderates the Short-Term Effects of Transdermal 17β -Estradiol on Endothelium-Dependent Vascular Function in Postmenopausal Women



Effect of transdermal estradiol on FMD (mean $\pm$ SE estradiol FMD minus placebo FMD). * $P < 0.005$ change in FMD compared with placebo.

Sherwood, 2007

Vasodilatation de l'artère brachiale 18 heures
Après TTS 50 chez 100 femmes normales ou avec
CHD

Cardiovascular disease

● Hormonal replacement therapy: lipid profile

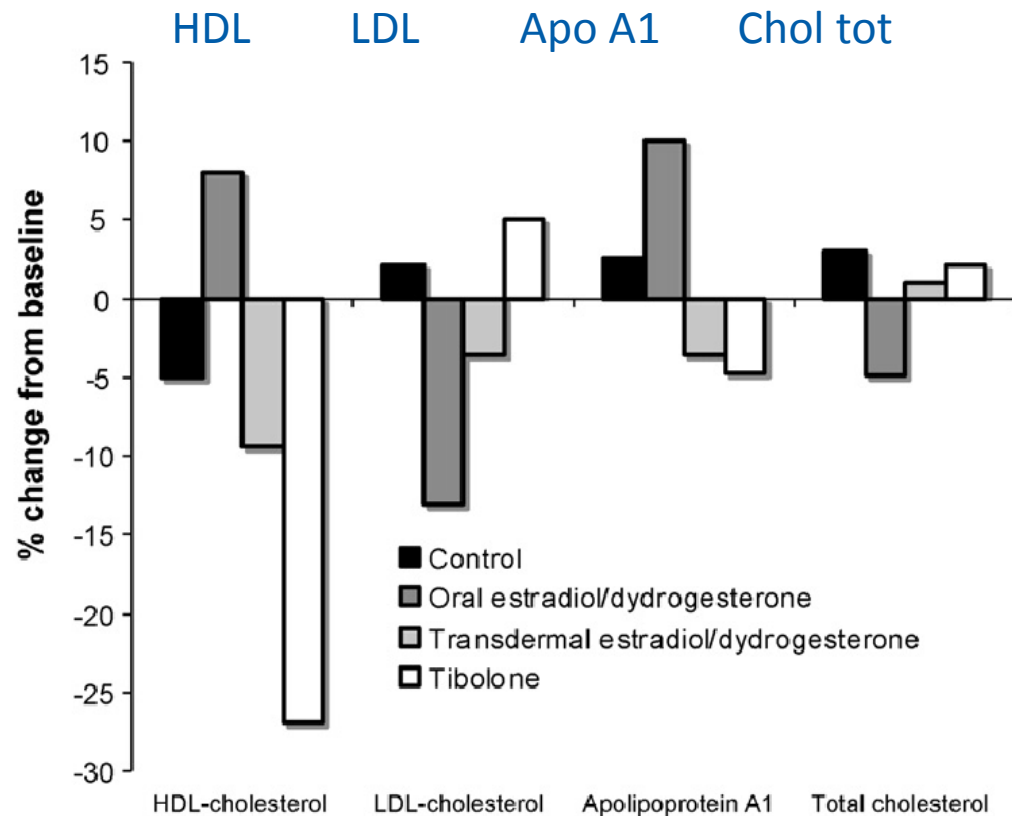


Fig. 5. Effect of sequential estradiol/dydrogesterone (2/10 mg) combination compared with other HRT regimens on the lipid profile [31].

Mueck et al 2009

stroke

↑ under HRT and SERM but not significant if started before 60 yrs without risk factor

↑ after 60 yrs of life under HRT: + 8 à 11 cases/10.000 women /yr,

↑ lower if low dose of HRT

Contraindications if past medical history of stroke



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VeinousThrombosis

VTE & Route of Oestrogen Administration and Progestogens

The ESTHER Study

Multicenter case-control study

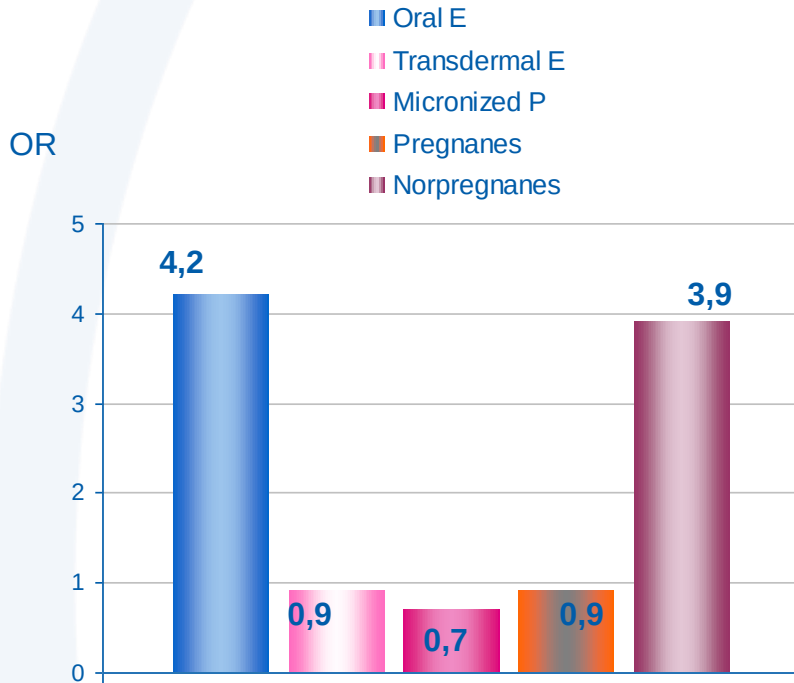
Postmenopausal

45 – 70 yrs

1999 – 2005

First idiopathic VTE

271 cases vs. 610 controls



Oral E: OR 4.2 (1.5 – 11.6)

Transdermal E: OR 0.9 (0.4 – 2.1)

Micronized P: OR 0.7 (0.3 – 1.9)

Pregnanes: OR 0.9 (0.4 – 2.3)

Norpregnanes: 3.9 (1.5 – 10.0)

Pregnanes: **dydrogesterone**, medrogestone, chlormadinone acetate, cyproterone acetate, medroxyprogesterone acetate

Norpregnanes: nomegestrol acetate, promegestone

Adjusted for: obesity status, VTE family history, varicose vein history, education, hysterectomy, age at menopause, cigarette smoking

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Breast cancer

Estradiol + progestin micro.

RR 1.00 (0.83 – 1.22)

Estradiol + dydrogesterone :

● RR 1.16 (0.94 – 1.45)

Estradiol + Nor derivatives pregnane:

● RR 1.69 (1.50 – 1.91)

*(Fournier, JCO, 2008, E3N
Fournier, JCO, 2009, E3N)*

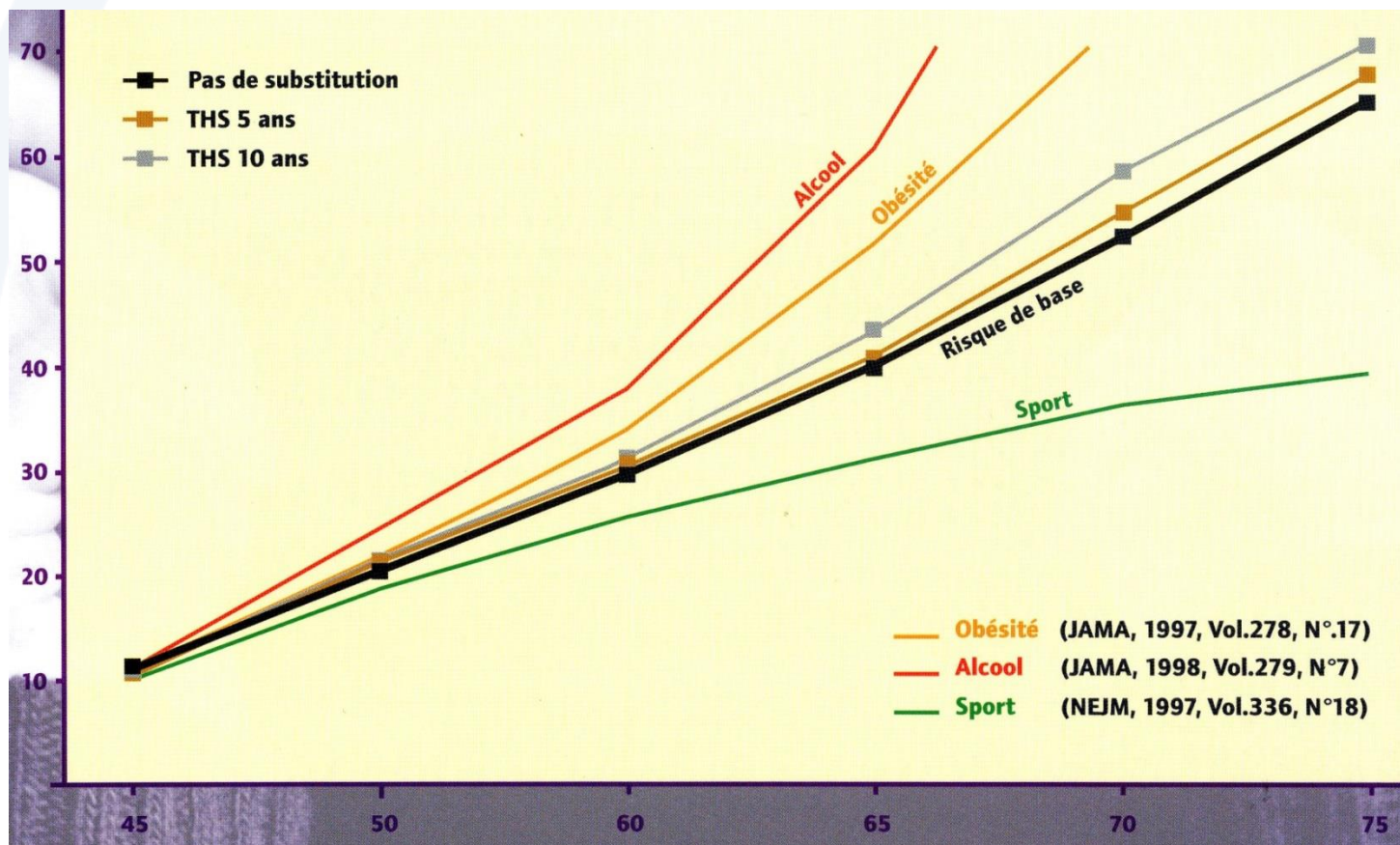


Breast Cancer:

Cumulative risk/
1000 women

HRT 10 yrs

HRT 5 yrs



Age (années)

Personnal history of breast cancer

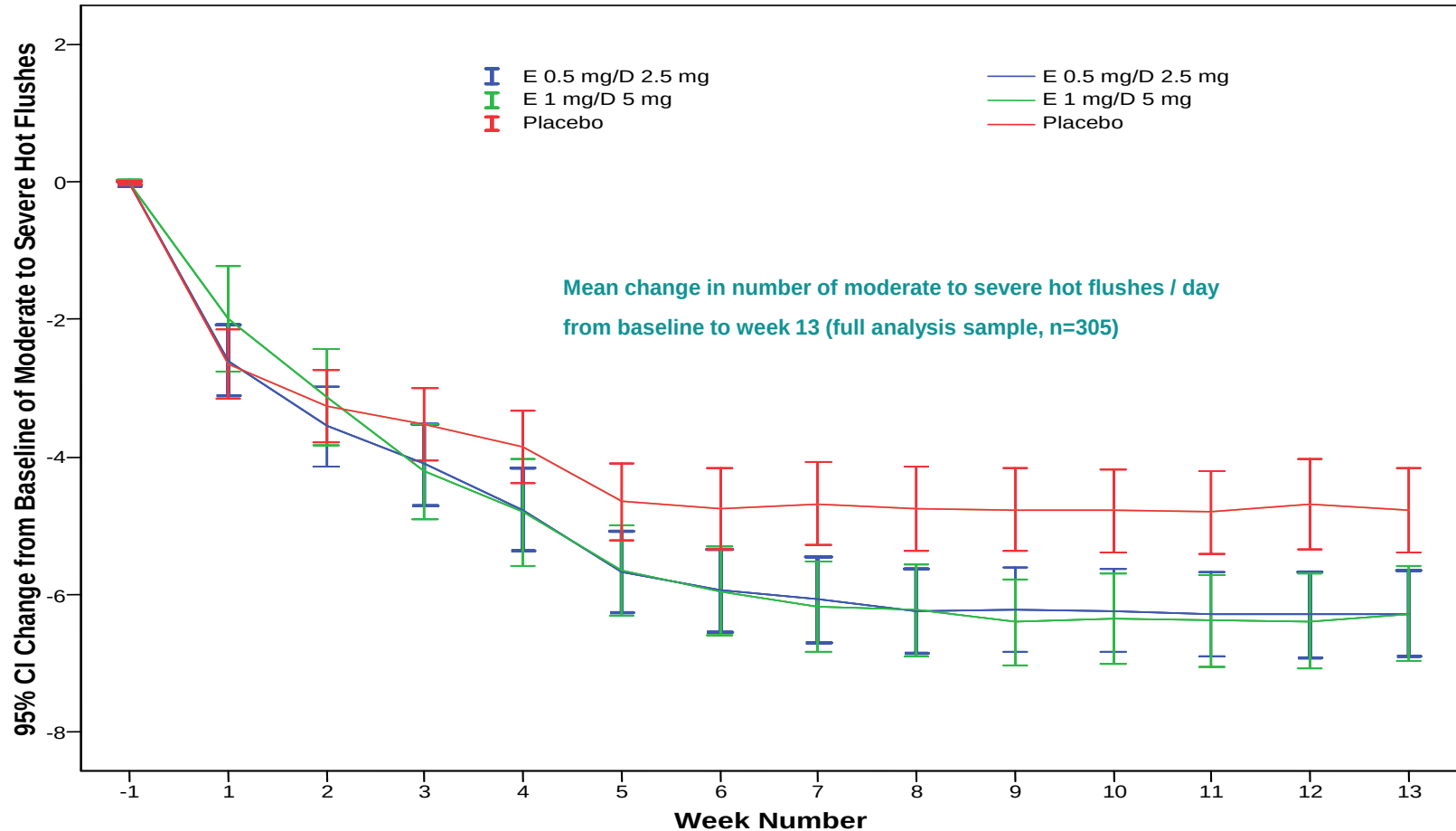
HRT and tibolone are contrindicated

Venlafaxin, Clonidin, Gabapentin for hot flashes Interaction with Paroxetin, Fluoxetin et Tamoxifen.

topic Estriol could be used :(expert opinion)



HRT effect of low dose and hot flushes



p E 0,5mg/D 2,5mg versus placebo à 4W p<0.05
à 8W p<0.001

2010 :Stevenson

New ultra low-dose regimen 0.5 mg E continuously combined with 2.5 mg D (n=305) ⁽¹⁾

(1) Stevenson JC, Durand G, Kahler E, Pertynski T, Maturitas 2010
E: 17β-estradiol; D: dydrogesterone

Other cancers

Colon cancer :

- HRT decrease the risk (WHI).
- Estradiol alone do not change the risk,

Endometrium :

- Estradiol alone if hysterectomy.
- Conflicting data about sequential , continous HRT

(Jaakkula et al 2009)

- Tibolone : conflicting data: MWS – THEBES

Ovary : ? Poor data

lung: increase in mortality after 60 yrs if smoker + HRT but incidence of cancer the same,



CONCLUSIONS :menopause

HRT if symptoms or premature ovarian failure

Low doses of HRT

« Natural » hormones

Limitation of duration of HRT

Trans dermal route of Estradiol, no effect on DVT



HRT

Vaginal

Lubricants
E2 local
E3 local

Intact uterus

Amenorrhea
< 1 year

Oral sequential
EP

Transdermal/oral
E + oral P
+ IUD P

Qlaira
Zoely

Amenorrhea
> 1 year

Oral continuous
EP

Transdermal/oral
E + oral P
+ IUD P

No uterus

Transdermal E2
Oral E2

Tibolone

(libido, endometriosis, fibroma)

Non hormonal

Clonidine
Venlafaxine
Gabapentin









