Rotherham Clinical Commissioning Group

Menopause and HRT¹ guidance

CLINICAL DIAGNOSIS						
<40 years	≥45 years					
 Symptoms No/infrequent periods for >3 months Not on COCP²/high dose progesterone Test: 2x FSH³ 4-6 weeks apart. If FSH>30 diagnosis of PREMATURE OVARIAN INSUFFICIENCY – choice of treatment with HRT or COCP 	 Symptoms Menstrual cycle changes Not on COCP²/high dose progesterone Test - consider only if need for definitive diagnosis: 2x FSH 4-6 weeks apart. If FSH>30 diagnosis of menopause 	 Symptoms No period for >12 months NO role for FSH testing 				
■ Or du	e to surgical removal of uterus and	ovaries				

MENOPAUSAL SYMPTOMS and treatment options					
VASOMOTOR	➤ HRT - 1 st line				
(HOT FLUSHES,	> Do not offer SSRI ⁴ /SNRI ⁵ or clonidine (limited efficacy and side effects)				
NIGHT SWEATS)	Alternative self-care with isoflavones or black cohosh (consider				
	content/safety)				
PSYCHOLOGICAL	➤ HRT – 1 st line				
(LOW MOOD)	➤ CBT ⁶				
	➤ Do not offer SSRI⁴/SNRI⁵ to patients with no diagnosis of depression				
	Rule out hypothyroidism or depression				
LOSS OF LIBIDO	➤ HRT				
	Refer to gynae for topical testosterone supplementation if HRT alone				
	ineffective (under Shared Care Protocol arrangements)				
UROGENITAL	 Vaginal oestrogen – as stand-alone treatment OR could be used in addition to 				
ATROPHY	HRT (if systemic hormones not contra indicated)				
VAGINAL	 Moisturisers and lubricants – used alone or in addition to vaginal oestrogen or 				
DRYNESS	systemic HRT				
	NOT SUITABLE FOR PRESCRIBING ON NHS – patients should be advised self-care				
HRT also	beneficial for bone mineral density/ osteoporosis, reduces risk of fragility fracture				

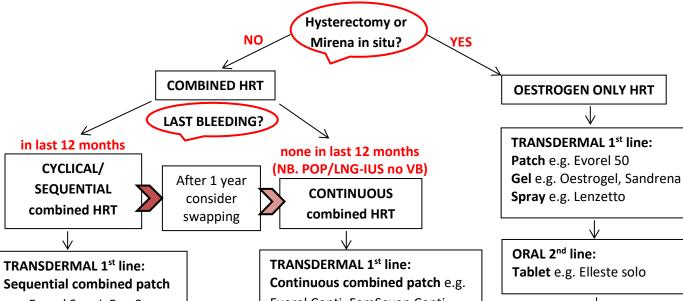
PATIENT ASSESSMENT PRIOR TO INITIATION

- Symptoms
- Menstrual and gynaecological history, including contraception
- Other medical history, including family history
- Risk factors and C/I⁷ to systemic HRT
- Check BP, height, weight, and BMI
- For women under age of 40 on diagnosis of early menopause assess bone mass density and repeat in 2-3 years
- Some HRT preparations incur double NHS prescription charge (see product list) consider if relevant

GENERAL CONTRAINDICATIONS TO SYSTEMIC HRT – refer to specialist

- history of breast cancer or oestrogen-dependent tumour untreated endometrial hyperplasia
 undiagnosed vaginal bleeding arterial thromboembolic disease current/ recurrent VTE⁸
 - thrombophillic disorder liver disease (with abnormal LFTs⁹)

HRT CHOICE - consider: uterus, last bleeding, and need for contraception



e.g. Evorel Sequi, FemSeven Segui

OR

Oestrogen only patch/gel/pill combined with:

- IUS¹⁰ (Mirena licensed for 4 years for HRT use but may remain in situ for up to 5 years for HRT)
- Micronized progesterone (Utrogestan) 200mg ON11 for 12 days of cycle (day 15-26 of a 28-day cycle)
- Medroxyprogesterone acetate (Provera) 10mg OD¹² for 12 days

ORAL 2nd line: Sequential combined pill e.g. Femoston

Evorel Conti, FemSeven Conti

OR

Oestrogen only patch/gel/pill combined with:

- IUS (Mirena licensed for 4 years for HRT use but may remain in situ for up to 5 years for HRT)
- Micronized progesterone (Utrogestan) 100mg ON every day (unlicensed but with good evidence base)
- Medroxyprogesterone acetate (Provera) 5mg OD every day

ORAL 2nd line: Continuous combined pill e.g. Femoston Conti

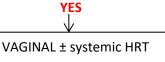
gonadomimetic e.g. Tibolone

CONTRACEPTION **NEEDED?**

Perimenopause /	Menopause /
under 50 years	over 50 years
for 2 years after last	for 1 year after last
period	period

All progestogen only contraception methods are safe to use alongside sequential HRT

VAGINAL SYMPTOMS/ UROGENITAL ATROPHY



Vaginal oestrogen – systemic absorption is minimal and progestogen opposition is not required, may be continued long term

ESTRIOL based:

gonadomimetic

e.g. Tibolone

- 1st line cream: Ovestin (0.1%) N.B. 0.01% is not cost effective
- Pessary: Imvagiss 30mcg
- Gel: Blissel 50mcg/g

ESTRADIOL based:

- 2nd line pessary: Vagifem 10mcg
- Ring: Estring 7.5mcg/24hrs (change 3 monthly, max treatment duration 2 years)

Vaginal moisturisers:

AS SELF-CARE ONLY – not to be initiated/ prescribed on NHS (Replens, Sylk, Yes)

CONTRACEPTION

- HRT is not a contraceptive (only Mirena is licensed as HRT and hormonal contraception)
- Contraception required for 2 year after last menstrual period for women <50 years and for 1 year for women >50 years
- Progestogen only hormonal contraception (i.e. POP¹³, implant, Mirena/Levosert, Kyleena, Jaydess) no vaginal bleeding

OESTROGEN COMPARATIVE DOSES Given comparison is approximate and not directly equivalent Dose equivalency for conjugated equine oestrogen to estradiol is unclear								
ORAL								
1mg estradiol	~ 25mcg	~ 0.5g	~ 1 pump actuations	~ 1 spray actuation				
2mg estradiol	~ 50 mcg	~ 1 g	~ 2 pump actuations	~ 2 spray actuations				
3-4mg	3-4mg ~ 75-100 ~ 1.5 g ~ 4 pump actuations ~ 3 spray actuations							
estradiol								
High	lighted above ar	e the usual startir	ng dose for each correspo	onding formulation				

		PROGESTOGEN C	HOICE FOR COMB	INED HRT			
Use dydroge	Use dydrogesterone or micronized progesterone as 1st choice of progestogen (non-androgenic) due to favourable risk profile (lower risk of breast cancer, VTE ⁸ and CVD ¹⁴)						
Class		Examples	Route	Comments			
Testosterone analogues	VIC	Norethisterone	transdermal oral	good cycle controlunfavourable effect on lipidssystemic absorption of			
	ANDROGENIC	Levonorgestrel	intrauterine transdermal oral	levonorgestrel from Mirena is minimal Mirena – is the only IUS ¹⁰ which may be used as part of HRT ¹			
Progesterone analogues		Medroxyprogesterone acetate (Provera)	oral	 unfavourable effect on lipids 			
	ENIC	Dydrogesterone	oral	 favourable risk profile (reduced risk of breast cancer, VTE⁸ and CVD¹⁴) only available in combined HRT¹ oral preparations 			
Bioidentical	Micronised progesterone (Utrogestan)		oral	 less progestogenic side-effects favourable risk profile (reduced risk of breast cancer, VTE⁸ and CVD¹⁴) no effect on lipids less effective bleeding control may cause sedation – to be taken at night 			

GONADOMIMETICS i.e. Tibolone 2.5mg OD¹²

- synthetic steroid with oestrogenic, progestogenic and androgenic activity
- continuous combined HRT¹ with no bleeding, indicated for post-menopausal women
- conserves bone mass and helps with vasomotor, psychological and libido symptoms
- not recommended as 1st line option due to unfavourable risk profile, similar to combined HRT¹ increased cancer and VTE⁸

	HRT¹ PRODUCT OVERVIEW							
Туре		Formulation	Brand	Oestrogen content	Progestogen content	Comments		
ъ	1 st line	Patches	Evorel Sequi	Estradiol 50 micrograms	Norethisterone 170micrograms	Peri- and post-menopausal women; monthly bleed, double Rx charge		
ıbine		Patches	FemSeven Sequi	Estradiol 50 micrograms	Levonorgestrel 10micrograms			
'sequential combined (intact uterus)	2 nd line	Tablets	Femoston	Estradiol 1mg, 2mg	Dydrogesterone 10mg	Postmenopausal women at least 6 months since last period; monthly bleed, double Rx charge		
	3 rd line	Tablets	Elleste Duet	Estradiol 1mg, 2mg	Norethisterone 1mg	Peri- and post-menopausal women; monthly bleed,		
ne Ict		Tablets	Clinorette	Estradiol 2mg, 2mg	Norethisterone 1mg	double Rx charge		
Cyclical/ seq (inta		Tablets	Cyclo-progynova	Estradiol val. 2mg	Norgestrel 500microgram			
		Tablets	Tridestra	Estradiol val. 2mg	Medroxyprogesterone 20mg	Peri- and post-menopausal women; quarterly bleed, double Rx charge		
Cycl		Tablets	Trisequens	Estradiol 2mg, 2mg, 1mg	Norethisterone 1mg	Postmenopausal women at least 6 months since last period, monthly bleed, double Rx charge		
		Tablets	Novofem	Estradiol 1mg	Norethisterone 1mg			
	1 st line	Patches	Evorel Conti	Estradiol 50microgram	Norethisterone 170microgram	Post-menopausal women at least 18 months since last period; no bleed		
ped		Patches	FemSeven Conti	Estradiol 50microgram	Levonorgestrel 7micrograms	Post-menopausal women at least one year since last period; no bleed		
tinuous combined (intact uterus)	2 nd line	2 nd line Tablets Femoston Conti Estradiol 500microgram, 1mg		Dydrogesterone 2.5mg, 5mg	Post-menopausal women at least one year since last period; no bleed			
	3 rd line	Tablets	Elleste Duet Conti	Estradiol 2mg	Norethisterone 1mg			
lou act		Tablets	Kliofem	Estradiol 2mg	Norethisterone 1mg			
Continuous (intact u		Tablets	Kliovance	Estradiol 1mg	Norethisterone 500microgram			
8	4 th line	Tablets	Indivina	Estradiol val. 1mg, 2mg	Medroxyprogesterone 2.5mg, 5mg	Post-menopausal women at least three years since last period; no bleed		
		Tablets	Premique Low Dose	Conj. oestr 300micrograms	Medroxyprogesterone 1.5mg	Post-menopausal women at least one year since last period; no bleed		

	1 st	Patches	Evorel	Estradiol 25, 50, 75,		Peri- and post-menopausal women
(pəsn	line			100microgram		
Unopposed oestrogen an adjunctive progestogen must be used)		Patches	Estradot	Estradiol 25, 37.5, 50, 75, 100microgram		Post-menopausal women at least one year since last period. Smallest patches.
en m		Patches	Estraderm MX	Estradiol 25, 50, 75, 100microgram		Post-menopausal women at least one year since last period
ogen jestog		Patches	Progynova TS	Estradiol 50, 100microgram		Postmenopausal women more than one year postmenopause
stro		Gel	Oestrogel	Estradiol 0.06%		Post-menopausal women at least one year since
Unopposed oestrogen		Gel	Sandrena	Estradiol 500microgram, 1mg		last period
ppos		Transdermal spray	Lenzetto	Estradiol 1.53mg per metered dose		Post-menopausal women at least 6 months after last menses or surgical menopause
Jno Jac	2 nd line	Tablets	Elleste Solo	Estradiol 1mg, 2mg		Peri- and post-menopausal women
		Tablets	Zumenon	Estradiol 1mg, 2mg		Postmenopausal women at least 6 months since last period
<u>=</u> .		Tablets	Bedol	Estradiol 2mg		Peri- and post-menopausal women
rus is		Tablets	Progynova	Estradiol val. 1mg, 2mg		
(if uterus is intact		Tablets	Premarin	Conj. oestr 300microgram, 625microgram, 1.25mg		Post-menopausal women at least one year since last period
ogestogen	1 st line	IUS	Mirena		Levonorgestrel 20mcg/24hrs	Protection from endometrial hyperplasia during oestrogen replacement therapy. Should be removed after 4 years as per license for HRT, may remain in situ for 5 years (license for contraception)
Adjunctive progestogen		Oral capsules	Utrogestan		Progesterone 100mg, 200mg	For adjunctive use with oestrogen in post- menopausal women with an intact uterus, continuous regimen is unlicensed (but with good evidence base)
AC	2 nd line	Tablets	Provera or Climanor		Medroxyprogesterone 5mg, 10mg	For adjunctive use with oestrogen in peri- and post-menopausal women

	1 st line	Vaginal cream	Ovestin	Estriol 0.1%	Atrophic vaginitis; cost effective estriol vaginal cream (CCG preferred brand)
Local/ vaginal oestrogen	2 nd line	Vaginal tabs	Vagifem	Estradiol 10micrograms pessaries	Treatment of vaginal atrophy due to oestrogen deficiency in postmenopausal women
	3 rd line	Vaginal tabs	Vagirux	Estradiol 10micrograms pessaries	
		Vaginal tabs	Imvaggis	Estriol 30microgram pessaries	Local treatment of vaginal symptoms of oestrogen deficiency in postmenopausal women
		Vaginal ring	Estring	Estradiol 7.5micrograms	One ring inserted and worn continuously for 3 months. Replace with new ring at 3-month intervals. Max continuous treatment period 2 years
		Vaginal gel	Blissel	Estriol 50micrograms/g	Local treatment of vaginal dryness in postmenopausal women with vaginal atrophy
		Vaginal cream	Generic preparation	Estriol 0.01%	Atrophic vaginitis and kraurosis in post- menopausal women. Pruritus vulvae and dyspareunia associated with atrophic vaginal epithelium, less cost effective option of vaginal estriol cream

	FOLLOW UP/ REVIEW
Commenced on HRT ¹	3 months after initiation
Established on HRT ¹	at least annually or ASAP ¹⁵ if vaginal bleeding occurs in patients with uterus

- At each review check blood pressure, height, weight and BMI¹⁶
- At each review discuss risk vs benefits and consider lowering dose or discontinuation
- Reassess and document regularly, as risk of adverse effects changes over time

In women with premature menopause systemic HRT¹ is recommended (if not contra indicated) until the average age of menopause (51 years) to prevent early onset of osteoporosis, CVD¹⁴, Alzheimer's disease, Parkinson Disease and cognitive decline.

VAGINAL BLEEDING PROBLEMS						
In women with uterus unscheduled vaginal bleeding is a common side effect of HRT ¹ within the first 3 months of treatment and the clinical management is dependent on the type of HRT ¹						
Patient on CYCLICAL HRT¹ - consider ca	uses i.e. compliance, interactions, malabsorption, pathology					
Heavy/ prolonged withdrawal bleeding	Increase/change progestogen OR reduce oestrogen					
Early bleeding in progestogen phase	Increase/change progestogen					
Painful bleeding	Change type of progestogen					
Spotting before withdrawal period	Increase oestrogen dose					
Irregular bleeding Change HRT¹ regime OR increase progestogen						
Persistent heavy/ prolonged/	Refer to gynaecology for investigation					
breakthrough or painful bleeding						
CONTINUOUS COMBINED HRT1						
Spotting/ recurrent bleeding	Increase/change progestogen, convert to cyclical if other options fail					
Heavy or continuing after 6 months of	Refer to gynaecology for investigation					
start/ change of HRT ¹						
New bleeding after 12 months of	Refer to gynaecology for investigation					
amenorrhea						

HRT¹ SIDE EFFECTS						
OESTRO	OESTROGENIC PROGESTOGENIC					
Nausea/ heartburn	Wait – s/e ¹⁷ generally	PMS ¹⁸ type symptoms	Change progestogen			
Breast tenderness	settle within 3 months	Mood changes	type/ route/ regimen			
Nipple sensitivity		Acne/ greasy skin	(i.e. to continuous			
Bloating	If not, or severe, lower	Breast tenderness	combined HRT¹)			
Headaches	dose or change the route	Bloating				
Leg cramps		Headaches				

STOPPING HRT¹

Duration of HRT¹ need to be individualised – there is no max duration of therapy

- Could be gradually reduced to limit recurrence of symptoms in short term OR
- Could be immediately stopped but symptoms may recur short term only

No difference to symptom control long term

RISKS ASSOCIATED WITH HRT¹ USE

Summary of HRT risks during current use and current use plus post-treatment from age of menopause up to age 69 years, per 1000 women with 5 years or 10 years use of HRT

TOOS WOITICI	with 5 years	•					1		
	Risks over 5 ye		Total risks up		Risks over 10			Total risks up to age 69	
	(with no use o	r 5 years	(after no use o	or after 5 years	(with no use o	r 10 years	(after no use of	or after 10	
	current HRT u		HRT use+)	1	current HRT u	1	years HRT use		
	Cases per	Extra cases	Cases per	Extra cases	Cases per	Extra cases	Cases per	Extra cases	
	1000	per 1000	1000	per 1000	1000	per 1000	1000	per 1000	
	women with	women	women with	women	women with	women	women with	women	
	no HRT use	using HRT	no HRT use	using HRT	no HRT use	using HRT	no HRT use	using HRT	
Risks associate	ed with combine								
Breast	13	+8	63	+17	27	+20	63	+34	
cancer									
Sequential	13	+7	63	+14	27	+17	63	+29	
HRT		.,	03	1.24	27	1.27		1.23	
Continuous	13	+10	63	+20	27	+25	63	+40	
combined									
HRT									
Endometrial	2	-	10	-	4	_	10	-	
cancer	_								
Ovarian	2	+<1	10	+<1	4	+1	10	+1	
		T \1	10	+ \1	"	T.	10	T4	
cancer	-	. =	26		0	.42	26	.42	
Venous	5	+7	26	+7	8	+13	26	+13	
thromboem									
bolism									
(VTE)§									
Stroke	4	+1	26	+1	8	+2	26	+2	
Coronary	14	-	88	-	28	-	88	-	
heart									
disease									
(CHD)									
Fracture of	1.5	-	12	-	1	-	12	-	
femur									
	ed with o estrog e	en-only HRT		1	1	1	I	1	
Breast	13	+3	63	+5	27	+7	63	+11	
cancer		'		'		'			
Endometrial	2	+4	10	+4	4	+32	10	+32	
	2	T4	10	T4	4	T32	10	T32	
cancer	2		10	4	4		10		
Ovarian	2	+<1	10	+<1	4	+1	10	+1	
cancer		_							
Venous	5	+2	26	+2	10	+3	26	+3	
thromboem									
bolism (VTE)									
Stroke	4	+1	26	+1	8	+2	26	+2	
Coronary	14	-	88	-	28	-	88	-	
heart				1	1				
disease				1	1				
(CHD)									
Fracture of	0.5	_	12	-	1	-	12	-	
femur	3.3			1	1 -				
Territor	i	i	i	I .	I .	1	1		

[†]Best estimates based on relative risks of HRT use from age 50. For breast cancer this includes cases diagnosed during current HRT use and diagnosed after HRT use until age 69 years; for other risks, this assumes no residual effects after stopping HRT use.

RISK OF BREAST CANCER - KEY POINTS:

- The increased risk is linked to systemic HRT (all types), but not vaginal oestrogen to treat local symptoms
- The risk is higher for combined oestrogen-progestogen HRT than oestrogen-only HRT
- The risk is higher with continuous HRT (daily progestogen) than with sequential HRT
- The risk is increased during use of HRT, reduces after stopping but remains increased for >10 years after stopping HRT compared with women who have never used HRT
- Risk increases further with duration of HRT use
- No/little increased risk with use of HRT for less than 1 year (including past users)
- The risk is unaffected by the type of oestrogen or progestogen, or the route of administration (oral or transdermal)

RISK OF ENDOMETRIAL CANCER - KEY POINTS:

- The increased risk is linked to oestrogen-only HRT and increases with longer duration
- No increased risk with combined HRT

RISK OF OVARIAN CANCER - KEY POINTS:

- Evidence suggesting there may be increased risk with all systemic HRT which falls after cessation
- Not discussed by NICE

RISK OF CARDIOVASCULAR DISEASE - KEY POINTS:

- If HRT initiated under the age of 60 there is no increased risk of CVD
- HRT is not contra-indicated in pre-existing CVD risk factors if they are optimally managed
- The risk of stroke with oral (but not transdermal) oestrogen is slightly increased but is very low in all women under the age of 60

RISK OF VENOUS THROMBOEMBOLISM – KEY POINTS:

- Transdermal HRT preparations are 1st choice option same risk as baseline population
- The increased risk is associated with oral HRT (combined and oestrogen-only), particularly in the first year of use but not observed with transdermal preparations
- The risk is higher with combined oestrogen-progestogen HRT than with oestrogen-only preparations
- Risk increases further with longer duration of HRT use
- Risk increases further with dose of oestrogen
- Conjugated equine oestrogen has higher risk of VTE than estradiol
- The highest risk is with conjugated equine oestrogen and medroxyprogesterone acetate combination (i.e. Premique)
- Oral estradiol with dydrogesterone is not associated with increased risk (i.e Femoston)
- The risk returns to baseline (no history of HRT use) on cessation

RISK OF DIABETES – KEY POINTS:

- HRT (oral and transdermal) is not linked with increased risk of developing type 2 diabetes
- Blood glucose control should not be adversely affected in women with type 2 diabetes using HRT

GLOSSARY OF ABBREVIATIONS:

- 1. **HRT** hormone replacement therapy
- 2. **COCP** combined oral contraceptive pill
- 3. **FSH** follicle-stimulating hormone
- 4. **SSRI** selective serotonin reuptake inhibitor
- 5. **SNRI** serotonin–norepinephrine reuptake inhibitor
- 6. **CBT** cognitive behavioural therapy
- 7. **C/I** contra-indication
- 8. **VTE** venous thromboembolism
- 9. **LFT** liver function test
- 10. **IUS** intra uterine system i.e. hormone releasing coil
- 11. **ON** at night
- 12. **OD** daily
- 13. POP progestogen-only pill
- 14. CVD cardiovascular disease
- 15. **ASAP** as soon as possible
- 16. **BMI** body mass index
- 17. **s/e** side effects
- 18. **PMS** premenstrual syndrome