

# Progestogens for endometrial protection when using HRT Guidance for Sheffield Primary Care

This guidance is summarised from the British Menopause Society (BMS) guidelines<sup>1,2</sup> and local recommendations. Primary care clinicians are advised to consult the full BMS guidelines for more detailed information.

# Key points

- Oestrogen alone HRT will increase the risk of endometrial hyperplasia over 1-3 years.
- Women with an intact uterus need either sequential (cyclical) progestogen for 12-14 days per cycle, if less than 12 months since last LMP, or continuous (combined) if more than 12 months since LMP. The dose of progestogen should be in proportion to the oestrogen dose.
- If women stay on sequential HRT for more than 5 years there is a small increased risk of endometrial hyperplasia therefore it is better to switch to continuous combined after a minimum of 1 year, depending on the age of the patient when starting HRT and the duration of amenorrhoea prior to it (can do sooner rather than later if older women with more months of amenorrhoea).
- For the vast majority of women with unscheduled bleeding, increasing the progestogen dose or using an alternative type will settle things, especially in the first few months of use. For detailed guidance on when patients should be assessed to exclude endometrial pathology, refer to the SYB Cancer Alliance <u>Guidance for patients on HRT with unscheduled bleeding</u> and the BMS joint guideline <u>Management of unscheduled bleeding on HRT<sup>2,3</sup></u>.

# Standard dose progestogen regimes:

Progestogens, licensed for HRT, are available as single oral preparations or in combination with oestrogen as oral preparations or transdermal patches or as intrauterine devices. Refer to <u>Appendix</u> <u>1</u> for recommended standard dose progestogen regimens and Sheffield Formulary choices.

Vaginal micronised progesterone: Oral capsules are not licensed for vaginal administration; whereas Utrogestan<sup>®</sup> 200 mg vaginal pessary, Cyclogest<sup>®</sup> 200 mg vaginal pessary and Lutigest<sup>®</sup> 100 mg vaginal pessary are not licensed for endometrial protection. Off label use may be considered where there are prostogenic side effects with oral use and other progestogens are not suitable. Local recommendation is to use the oral capsules by the vaginal route, in preference to the pessary products, at the same dose regimen as oral regimens. See <u>below</u> for recommendations for unscheduled bleeding.

Body identical compounded preparations from private providers are not recommended as the purity/potency and safety is unknown. Progesterone gel or cream has variable absorption and fluctuating levels so can't guarantee endometrial protection.

### Higher dose progestogen regimes:

These may be required for unscheduled bleeding or for a higher oestrogen dose – see Appendix 2.

# **Options for unscheduled bleeding:**

- Increasing the dose or changing the progestogen type.
- If taking oral micronised progesterone, increase dose to 300mg for 12-14 days for sequential or 200mg every night or on days 1 to 25 for continuous combined; these are unlicensed regimens. There is no evidence that vaginal micronised progesterone (off-licence use of oral capsules) reduces unscheduled bleeding episodes compared with oral use or other progestogens. Consider a 3 month trial of 200 mg micronised progesterone vaginally<sup>2</sup> if other progestogens are not tolerated; dosage is 200mg for 14 days for sequential or 200mg daily for continuous combined regimens.
- Offer all women a Mirena<sup>®</sup> 52 mg LNG-IUD; this preparation reduces episodes of unscheduled bleeding when compared with other preparations. Mirena<sup>®</sup> is licensed for endometrial protection for 4 years; studies have shown it to offer sufficient endometrial protection up to 5 years. Other 52mg LNG-IUD preparations are not licensed but are also recommended outside the licence by the BMS and FSRH.
- If using a combined patch or Mirena<sup>®</sup> or other 52mg LNG-IUD, then oral micronised progesterone or an alternative oral progestogen can be added in (unlicensed use).
- Oral preparations provide higher rates of amenorrhoea compared with transdermal oestrogen preparations and may be offered as an alternative, if BMI <30kg/m<sup>2</sup> and low risk of thrombosis <sup>2,4</sup>.
- If bleeding occurs when starting or switching to continuous combined HRT, then switch back to cyclical for another year and then try again.

### Licensed oestrogen dose and proportionate progestogen dose

The BMS recommends that the dose of the progestogen should be proportionate to the dose of oestrogen. Women who require high dose oestrogen intake should consider having their progestogen dose increased to ensure adequate endometrial protection (<u>BMS 2021</u><sup>1</sup>)

The <u>BMS 2024</u><sup>2</sup> unscheduled bleeding on HRT guidance classifies the dose of oestrogen from ultralow to high dose regimens for the different oestrogen products and gives the corresponding dose of progestogen for each. This has been reproduced in <u>Appendix 2</u>.

**HRT and subtotal hysterectomy** – use a sequential product for 3 months and if no bleeding can assume no endometrial tissue in cervical stump and switch to oestrogen alone. For existing individuals on oestrogen only HRT where this guidance has not been followed, a local recommendation is to consider an ultrasound of the pelvis to exclude any collection/mass and give the 3 month trial of cyclical HRT. If there is any abnormality on scan, refer to specialist. If there is no bleed on the cyclical therapy, it is safe to return to the current oestrogen-only regimen.

**HRT and endometriosis** – there is limited evidence to guide practice, however, continuous combined regimes should be considered following surgery for severe endometriosis to prevent reactivation and malignant transformation of any deposits/residual disease.

**HRT and endometrial ablation** - need progestogenic cover, not just oestrogen, as the uterus is intact and it cannot be assumed that all endometrial tissue has gone.

# **References:**

- 1. BMS guideline Progestogens and endometrial protection (Oct 2021) <u>https://thebms.org.uk/wp-content/uploads/2021/10/14-BMS-TfC-Progestogens-and-endometrial-protection-01H.pdf</u>
- 2. BMS joint guideline Management of unscheduled bleeding on HRT (April 2024) <u>https://thebms.org.uk/publications/bms-joint-guidelines/management-of-unscheduled-bleeding-on-hormone-replacement-therapy-hrt/</u>
- NHSE Getting It Right First Time (GIRFT) summary guide Management of unscheduled bleeding on HRT (June 2024) <u>https://gettingitrightfirsttime.co.uk/wp-</u> <u>content/uploads/2024/06/Summary-Guide-Management-of-Unscheduled-Bleeding-on-HRT-</u> <u>June-2024.pdf</u>
- 4. Sheffield Formuary Chapter 6.4.1.1 Oestrogens and Hormone Replacement Therapy (HRT) <u>www.intranet.sheffieldccg.nhs.uk/Downloads/Medicines%20Management/Sheffield%20Formul</u> <u>ary/Current%20Formulary%20Chapters/6\_Endocrine.pdf</u>

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Appendix 1: Standard dose progestogens licensed or with an evidence base for endometrial protection

Progestogen	Dose	Sheffield Formulary Product*	Notes	
Micronised progesterone	Sequential regimen: 200mg po daily at	Utrogestan <sup>®</sup> , Gepretix <sup>®</sup> : 100 mg oral	Consider generic prescribing to	
	bedtime from day 15 to day 26 of cycle (12	caps**	mitigate supply problems with	
	days/cycle) <b>or</b> 100mg po at bedtime from	No combined sequential product	Utrogestan <sup>®</sup> caps.	
	day 1 to day 25 of cycle (less withdrawal	available.		
	bleeding)		Vaginal use (unlicensed):	
	Off label sequential regimen: 200mg po daily		Oral capsules are not licensed for	
	at bedtime for 2 out of 4 weeks (easier for		vaginal administration. Off label	
	women to remember)		use, at the same doses as given	
			orally, may be considered to reduce	
	Continuous combined regimen: 100mg po	Continuous combined product:	progestogenic side-effects where	
	daily, at bedtime – off label except for	Bijuve <sup>®</sup> caps** (estradiol	other progestogens are not suitable.	
	combination product Bijuve®	1mg/progesterone 100mg) 1 po		
		daily		
		**caps contain gelatin		
Medroxyprogesterone	Sequential regimen: 10mg po daily from day	MPA tabs 2.5mg, 5mg, 10mg tabs	Climanor <sup>®</sup> was the only brand of	
acetate (MPA)	15 to day 28 of cycle (14 days/cycle)	(generic); off label prescribing see	MPA licensed for the progestogenic	
		notes.	opposition of oestrogen only HRT but this has been discontinued.	
		No combined sequential formulary	# Combined sequential product	
		choice product#.	(non-formulary): Tridestra <sup>®</sup> – a 3 monthly bleed product with 20mg	
	Continuous combined regimen: 2.5mg/5mg	Continuous combined product: no	MPA taken 14 days in every 91.	
	po daily	formulary choice; cost-effective	, , ,	
		option Indivina <sup>®</sup> tabs		
		(estradiol 1mg/MPA 2.5mg;		
		estradiol 1mg/MPA 2.5mg;		
		estradiol 2mg/MPA 5mg)		
		1 po daily.		
Dydrogesterone	Sequential regimen: 10 mg daily for 12-14	Combined sequential product:	Only available in combination	
	days a month	Femoston <sup>®</sup> (2 separate tabs)	products.	
			Closest to micronised progesterone.	

	Continuous combined regimen: 2.5mg/5 mg po daily	Estradiol 1mg or 2mg 1 po daily x 14 days then combined with dydrogesterone 10mg 1 po daily x 14 days. Continuous combined product: Femoston® conti tabs Estradiol 0.5mg/dydrogesterone 2.5mg 1 po daily. Estradiol 1mg/dydrogesterone 5mg 1 po daily	
Norethisterone	5mg tablets Sequential regimen: 1mg po daily from day 15 to day 26 of cycle (12 days/cycle)	Not licensed for endometrial protection. Combined sequential product oral: Elleste Duet® (2 separate tabs) Estradiol 1mg or 2mg 1 po daily x 16 days then combined with norethisterone 1mg 1 po daily x 12 days. Combined sequential product transdermal: Evorel® Sequi (2 separate patches) Estradiol 50mcg per 24 hours 1 patch twice weekly x 2 weeks then combined with norethisterone 170mcg per 24 hours 1 patch twice weekly x 2 weeks.	Norethisterone alone is only available in 5mg tabs and therefore is less suitable for routine use outside low dose combination products. It should only be considered as an add on (i.e. outside combination products) for individuals with a BMI <30kg/m <sup>2</sup> due to thromboembolic risk (see Women's Health Concern, <u>Statement regarding progestogens</u> ). If norethisterone is the preferred add on progestogen, an alternative to the 5mg tabs is to use the oral contraceptive norethisterone 350 micrograms and give 3 tabs (1.05mg); this is unlicensed.
	Continuous combined regimen: 0.5 to 1mg daily	Continuous combined products: Elleste Duet <sup>®</sup> Conti tabs Estradiol 2mg/norethisterone 1mg 1 po daily	

		Kliovance® tabs Estradiol 1mg/norethisterone 500mcg 1 po daily Continuous combined product transdermal: Evorel® Conti patches Estradiol 50mcg/norethisterone 170mcg per 24 hours 1 patch twice weekly	
_	52mg (20mcg/24 hours) for 4 years; off label for 5 years	Mirena® 52mg (20mcg/24 hours)	Mirena <sup>®</sup> 52mg is the only LNG-IUS that is licensed for endometrial protection. It is licensed for 4 years but can be used off label for 5 years. Levosert <sup>®</sup> and Benilexa <sup>®</sup> are also 52mg strength preparations and may be considered to provide adequate endometrial protection for up to 5 years. ( <u>BMS</u> , <u>FSRH guideline</u> ). There is a lack of evidence regarding Jaydess <sup>®</sup> (13.5mg strength and

\* For full range of HRT products and prescribing information see:

PrescQIPP HRT products table (as of Feb 22) – registration required

<u>BNF</u>

eMC for SPCs

Note: there is no evidence to support use of contraceptives such as combined oral contraceptives, standard dose progestogen only pills, Implanon<sup>®</sup>, or medroxyprogesterone acetate depo injection.

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# Appendix 2: Licensed oestrogen dose and proportionate progestogen dose

The tables below are reproduced from <u>BMS 2024</u> for educational purposes only.

	Ultra-low dose	Low dose	Standard dose	Moderate dose	High dose
Oestrogel <sup>®</sup>	½ pump	1 pump	2 pumps	3 pumps	4 pumps
Sandrena <sup>®</sup> gel	0.25 mg	0.5 mg	1 mg	1.5 to 2 mg	3 mg*
Lenzetto®	1 spray	2 sprays	3 sprays	4 to 5 sprays*	6 sprays*
spray					
Patch	12.5 mcg	25 mcg	50 mcg	75 mcg	100 mcg
Oral estradiol	0.5 mg	1 mg	2 mg	3 mg^	4 mg^

#### Prescribed oestrogen dose for ultra-low, low, standard, moderate and high dose regimens

\*off licence use ^Off-licence use – rarely required to achieve symptom control

mg = milligrams mcg = micrograms

### Progestogen dose per licensed oestrogen dose in the baseline population

Oestrogen dose	Micronised progesterone		Medroxyprogesterone		Norethisterone		LNG- IUD 52mg
	continuous	sequential	continuous	sequential	continuous	sequential	
Ultra-low / low	100 mg	200 mg	2.5 mg	10 mg	5mg*	5mg*	One up to
Standard	100mg	200mg	2.5 to 5mg	10mg	5 mg*	5 mg*	5years
Moderate	100 mg	200 mg	5 mg	10 mg	5 mg	5 mg	of use
High	200 mg⁺	300 mg⁺	10 mg^	20 mg^	5 mg	5 mg	

\*1 mg provides endometrial protection for ultra-low to standard dose oestrogen but the lowest stand-alone dose currently available in the UK is 5 mg (off-licence use of three Noriday<sup>®</sup> POP i.e 1.05 mg, could be considered if 5 mg is not tolerated).

<sup>^</sup>There is limited evidence in relation to optimal MPA dose with high dose oestrogen; the advised dose is based on studies reporting 10 mg providing protection with up to moderate dose oestrogen.

<sup>+</sup>There is limited evidence in relation to optimal micronised progesterone dose for moderate or high dose oestrogen; until evidence is available to guide practice, the advised dose is based on studies reporting 100 mg/day providing protection with up to standard dose oestrogen. If unscheduled bleeding occurs with ultra-low to moderate dose oestrogen, and other progestogens are not acceptable, offer micronised progesterone at the dosage recommended for high dose oestrogen.