

Use	Type	Active Ingredient/Name(s)	Route	Description	Side Effects
Prevention of premature ovulation/ovarian suppression/luteal primming	GnRH agonist	Buserelin/Suprefact	SC injection	Acts on LHRH receptors initially causing an increase in FSH & LH, after 10 days pituitary is desensitized and reduces FSH & LH production – inhibits androgen and estrogen	Menopausal symptoms
		Nafarelin/Synarel	Nasal spray		
		Leuprolide/ Depot Lupron	IM injection		
	GnRH antagonist	Cetrorelix/Cetrotide Ganirelix /Orgalutran	SC injection	Stops LH production	Nausea, headaches
	Estradiol	Progynova	Tablet/patch	Used with GnRH protocol in luteal phase. Syncs follicles. Used with poor responders.	Nausea, vomiting, abdominal cramps, bloating, weight change, breast enlargement and tenderness, changes in libido, depression, mood changes, HA, migraine, dizziness, leg cramps, vaginal candidiasis, eye dryness
Ovulation stimulation	Pulsed LHRH/ GnRH	Gonadorelin/Factrel/Lutrepulse	IV injection	Synthetic GnRH stimulates LH & FSH (lesser degree)	Nausea, headaches, abdominal pain, increased bleeding
	Anti-estrogen	Clomiphene/ Clomid /Clomifene/ Serophene	tablet	Blocks E2 receptors in hypothalamus to allow for continued FSH/LH production and follicular development	Hot flushes, abdominal discomfort
	Human menopausal gonadotrophin	Menotrophin FSH LH/ Menopur /Merional/ Repronex	IM/SC injection	Purified extract of post-menopausal urine FSH + LH (1:1 ratio) to stimulate follicular development	GI disturbances, headache, joint pain, fever
		Urofollitropin FSH/ Bravelle /Fertinorm HP/Fostimon		Purified extract of post-menopausal urine FSH to stimulate follicular development	

	Gonadotrophin (man-made LH)	Lutropin alfa/Luveris	SC injection	Used with man-made FSH to stimulate follicular development	Nausea, vomiting, abdominal and pelvic pain, headaches, somnolence
	Gonadotrophin (man-made FSH)	Follitropin alfa/ Gonal-F/Follistim	IM/SC injection	Used to stimulate follicular development	GI issues, headache, joint pain, fever
	Dopamine agonists	Bromocriptine/Parlodel Cabergoline/Dostinex	tablet	Ovulation induction in patients with high prolactin levels, reduces the amount of prolactin released by pituitary	Nausea, constipation, HA, hypotension, drowsiness, dyskinesia, pathological gambling, increased libido, leg cramps, alopecia, peripheral oedema
	Human Growth Hormone	Somatropin/ Omnitrop	SC injection	Helps convert T to E2. Used with AMA and poor responders.	HA, joint pain, edema
Oocyte maturation/ Trigger shot	Chorionic gonadotrophin	Pregnyl	IM/SC injection	Urinary hCG from pregnant women used in oocyte maturation. Better for poor responders and low E2.	edema, HA, fatigue, mood changes, gynaecomastia
		Ovitrelle	SC injection	Man-made hCG used for oocyte maturation. Better for poor responders and low E2.	Nausea, vomiting, abdominal pain, HA, fatigue
	GnRH agonist	Leuprolide/ Depot Lupron – double shot	IM Injection	Creates a surge of FSH & LH from Pituitary. Better for people with high E2. Also reduces OHSS.	
Luteal support	Progesterone	Crinone	Vaginal gel	Luteal phase and early pregnancy support	Bloating, fluid retention, breast tenderness, weight change, nausea, HA, dizziness, insomnia, drowsiness, depression, change in libido, pain, diarrhea, flatulence
		Cyclogest	Pessarie		
		Gestone	IM injection		

Endometrial lining growth	Estradiol	Progynova	Tablet/patch	Promote endometrial lining growth	Nausea, vomiting, abdominal cramps, bloating, weight change, breast enlargement and tenderness, changes in libido, depression, mood changes, HA, migraine, dizziness, leg cramps, vaginal candidiasis, eye dryness
Blood thinners	Antiplatelet	Aspirin	Tablet	Decrease platelet aggregation, inhibit thrombus formation	Bronchospasm, GI irritation, hemorrhage
	Anticoagulant- low molecular weight heparin	Enoxaparin sodium/Clexane/Lovenox	SC injection		Hemorrhage, thrombocytopenia, bruising