Comment: For further information refer to

Recommendation for Blood Glucose Monitoring (Appendix 6b)

Blood Glucose Meter Recommendations (Appendix 6c)

6.1 Drug	s used in Diabetes	Primary Care	Acute/ Specialist Services
6.1.1 Insu	lins		
	Insulin	\$	✓
Comment: For all insulins recommendation by practitioner experienced in the management of diabetes All prescriptions for insulin should be written by brand name only			

6.1.2 Oral Antidiabetic Drugs	Primary Care	Acute/ Specialist Services
Biguanides		
Metformin	✓	✓
Comment: Metformin M/R may be prescribed in patients who are intolerant of metform GI intolerance	ormin standard t	ablets due to
Sulphonylureas		
Gliclazide (1st line)	✓	✓
Glimepiride (only if problems with compliance) (2 nd line)	✓	✓
Comment: For once daily dosing, glimepiride is preferred to gliclazide M/R as it mo	re cost-effective	
Glitazones (Thiazolidinediones)		
Pioglitazone (Dual or Triple Therapy with metformin/sulphonylureas)	✓	✓
Gliptins (Dipeptidylpeptidase-IV (DPP4) inhibitors)		_
Alogliptin (1st line)	✓	✓
Linagliptin (1st line in renal impairment)	✓	✓
Gliflozins (Sodium glucose co-transporter-2 (SGLT2) inhibitors)		_
Dapagliflozin	✓	✓
Empagliflozin	✓	✓
Canagliflozin (restricted use as below)	✓	✓

Comment: Dapagliflozin is also approved for use in chronic heart failure (see Chapter 2) and for use in patients with chronic kidney disease in patients at treatment initiation and who are already receiving a ACE inhibitor or ARB (unless not tolerated or contra-indicated) with:

- an eGFR 20ml/min/1.73m² up to 45ml/min/1.73m² or
- an eGFR of 45ml/min/1.73m² up to 90ml/min/1.73m² and either:
- a urine albumin creatinine ratio of at least 22.6mg/mmol or more, or
- Type 2 diabetes.

Canagliflozin is approved for restricted use to improve renal outcome in patients with Type 2 Diabetes with evidence of diabetic kidney disease (ACR > 30 mg/mmol) for those who have suboptimal glycaemic control, BMI of ≥ 30 , and an HbA1c of < 75 mmol/mol. Can be started down to eGFR of $\geq 30 \text{ml/min}$

Glucagor	n-like peptide-1 receptor agonists (GLP1-RAs)		
	Liraglutide (Diavic®, Zegluxen®)	+	✓
	Semaglutide (Ozempic®)	+	✓
	Semaglutide (Rybelsus®) Tablets	✓	✓
	Liraglutide + Degludec (Xultophy®)	\$	✓
Commen	nt: For GLP1-RAs recommendation by Practitioner experienced in the mana	agement of diab	etes
_ong-acti	ting Glucose-dependent Insulinotropic Polypeptide (GIP) receptor & G agonist (GLP1-RAs)	lucagon-like p	eptide-1
Long-acti receptor	agonist (GLP1-RAs) Tirzepatide (Mounjaro®)	ф	✓
Long-active ceptor of the comment of the ceptor of the cep	agonist (GLP1-RAs) Tirzepatide (Mounjaro®) It: Injectable GLP1/GIP-RAs are only accepted for use in Forth Valley for the following specialist initiation. They are currently NOT accepted for use in N	+ ne management	✓ of Type 2
cong-active ceptor and a comment of the comment of	agonist (GLP1-RAs) Tirzepatide (Mounjaro®) at: Injectable GLP1/GIP-RAs are only accepted for use in Forth Valley for the following specialist initiation. They are currently NOT accepted for use in Notent.	+ ne management	✓ of Type 2
Long-active ceptor of the comment of the ceptor of the cep	Tirzepatide (Mounjaro®) at: Injectable GLP1/GIP-RAs are only accepted for use in Forth Valley for the following specialist initiation. They are currently NOT accepted for use in Nonent. eatment of Hypoglycaemia	+ ne management	✓ of Type 2
Long-active ceptor of the comment of the ceptor of the cep	Tirzepatide (Mounjaro®) at: Injectable GLP1/GIP-RAs are only accepted for use in Forth Valley for the following specialist initiation. They are currently NOT accepted for use in Notent. Pattment of Hypoglycaemia Glucagon (Glucagen® Hypokit)	e management HS Forth Valley	✓ of Type 2
Commendiabetes finanagem	Tirzepatide (Mounjaro®) at: Injectable GLP1/GIP-RAs are only accepted for use in Forth Valley for the following specialist initiation. They are currently NOT accepted for use in Notent. Beatment of Hypoglycaemia Glucagon (Glucagen® Hypokit) Glucogel (Glucogel®, GlucoRx®)	e management HS Forth Valley	✓ of Type 2

6.2 Thyroid and Antithyroid Drugs	Primary Care	Acute/ Specialist Services
6.2.1 Thyroid Hormones		
Levothyroxine (1st line)	✓	✓
Liothyronine	+	✓
Comment: Prescribing of Armour Thyroid (dessicated porcine thyroid glands) is not endocrinologists. It is an unlicensed medicine, there is considerable variability in form clinical evidence that it is more effective than levothyroxine		
6.2.2 Antithyroid Drugs		
Carbimazole (1st line)	✓	✓
Propylthiouracil	✓	✓
Potassium iodide		✓
Propranolol (standard tablets)	✓	✓

6.3.1 Corticosteroids	Primary Care	Acute/ Specialist Services
6.3.1 Replacement Therapy		
Fludrocortisone Acetate	✓	✓
6.3.2 Glucocorticoid Therapy		
Hydrocortisone Tablets	\$	✓
Hydrocortisone Injection	✓	✓
Dexamethasone	✓	✓
Methylprednisolone	✓	✓
Prednisolone (standard tablets)	✓	✓

e/c reduces the risk of GI ulceration, it is more expensive than std. tablets and may cause erratic absorption from the GI tract.

Consider osteoporosis prevention treatment if corticosteroids used long term.

6.4 Sex H	lormones	Primary Care	Acute/ Specialist Services
6.4.1 Fema	le Sex Hormones		
6.4.1.1 Oes	strogens and HRT		
	information on the use of HRT see the nopause Society Tool for Clinicians – HRT Guide		
Combination	n Products (for use in women with an intact uterus)		
Sequential (Combined Therapy (Cyclical) (Last menstrual period <1 year ago)		
Tablets			
1 st line	Femoston® (estradiol 1mg or 2mg/dydrogesterone 10mg)	✓	✓
2 nd line	Elleste Duet® (estradiol 1mg or 2mg/norethisterone 1mg)	✓	✓
Patches			
1 st line	Evorel Sequi® (estradiol 50mcg/24hrs, norethisterone 170mcg/24hrs)	✓	✓
Continuous	Combined Therapy (Last menstrual period >1 year ago)		
Tablets			
1 st line	Femoston Conti [®] (estradiol 500mcg or 1mg/dydrogesterone 2.5mg or 5mg)	✓	✓
2 nd line	Kliovance® (estradiol 1mg/norethisterone 500mcg)	✓	✓
2 nd line	Kliofem® (estradiol 2mg/noerethisterone1mg)	✓	✓
Patches			
1 st line	Evorel Conti® (estradiol 50mcg/24hrs, norethisterone 170mcg/24hrs)	✓	✓
2 nd line	FemSeven Conti® (estradiol 50mcg/24hrs, levonorgestrel 7mcg/24hrs)	✓	✓

Key ✓ Initiate and continue +Continue where appropriate.

Oestrogen	only (for use in women with no uterus or using an alternative prog	gesterone)	
Tablets			
	Estradiol hemihydrates 1mg or 2mg (Elleste-Solo®)	✓	✓
Patches	•		
1 st line	Evorel® (25mcg-100mcg)	✓	✓
2 nd line	Estradot® (25mcg-100mcg)	✓	✓
Transderm	nal Gel		
	Oestrogel® (estradiol 0.06%)	✓	✓
Comment:	Oestrogel® for restricted use when patch formulations are considered in	nappropriate	1
Gonadon	nimetic		
	Tibolone	+	✓
6.4.1.2 P	rogestogens		
	Dienogest	+	✓
simple anal	Dienogest tablets are approved for the management of endometriosis. Igesia or the contraceptive pill has been ineffective, not tolerated or not Primary Care on the recommendation of a specialist.		
1st line	Medroxyprogesterone acetate (Provera®)	✓	✓
1st line	Micronised progesterone (Utrogestan®) 100mg capsules	✓	✓
2nd line	Norethisterone	✓	✓
Comment: migraine wi	Norethisterone should be avoided in patients at risk of venous thrombo	embolism or who ha	ave a history of
mgrame w	Progesterone (Cyclogest® for subfertility)		✓
Comment:	Cyclogest® should only be prescribed by a Specialist Tertiary Centre		
6.4.2 M	ale Sex Hormones & Antagonists		
	Testosterone (Testavan®, Testogel®)	+	✓
	Cyproterone Acetate	+	✓
	Finasteride	✓	✓
			<u> </u>

6.5 Hypothalamic and pituitary hormones and anti-oestrogens	Primary Care	Acute/ Specialist Services
Anti-oestrogens		
Clomifene Citrate (1st line)	+	✓
Letrozole (off-label use) (2 nd line)	 	✓
Comment: Products for assisted conception, excluding clomifene, letrozole are funded through the tertiary infertility centre. GPs should not prescribe. Human Growth Hormone	centrally and ar	e available
Somatropin (preferred brands in new patients are FlexPro®, SurePal®) (daily administration	•	1
Somatrogon (Ngenla®) (once weekly administration)	+	✓
Somapacitan (Sogroya®) (once weekly administration)		✓

6.5.2 Posterior Pituitary Hormones and Antagonists					
	Desmopressin	✓	✓		
	Comment: Desmopressin Spray is no longer indicated for nocturnal enuresis unless treatment is associated with multiple sclerosis				
	Terlipressin (oesophageal varices)		✓		
	Tolvaptan (Jinarc [®])		✓		

Primary Specialist Disorders of bone metabolism Care Services Comment: For further information, also refer to -Guidelines for the Management of Osteoporosis in Patients aged 50 or over presenting with a Fragility Fracture, and in Patients on Aromatase Inhibitors (intranet only) SIGN 142 - Management of Osteoporosis and the Prevention of Fragility Fractures - January 21 Hypercalcaemia of Malignancy Treatment Guideline & Suspected Hypercalcaemia of Malignancy Guideline for Primary Care (intranet only) **Bisphosphonates** Comment: To aid compliance once weekly alendronic acid/risedronate is the preferred formulation for all indications. For some indications the once weekly formulation will be an off-label use (See BNF/SPC for further details) Oral bisphosphonates are unsuitable for use in patients with moderate-severe renal impairment. Alendronic acid should be avoided in patients with eGFR <35ml/min./1.73m². Ibandronic acid (when used for postmenopausal osteoporosis) and risedronate should be avoided if eGFR <30ml/min./1.73m² Oral bisphosphonates should always be co-prescribed with Calcium & vitamin D or if patient has sufficient dietary intake of calcium with vitamin D only. Oral Alendronic Acid (1st line) + calcium & Vit. D/ Vit. D Comment: Binosto® (70mg once weekly alendronic acid effervescent tablets can be used in patients who are unable to swallow alendronic acid tablets. Risedronate Sodium (2nd line) + calcium & Vit. D/ Vit. D Ibandronic acid 150mg tablets (postmenopausal osteoporosis) (3rd line) + calcium & Vit. D/ Vit. D Ibandronic acid 50mg tablets (as adjuvant treatment in early breast cancer) Infusion Comment: For the management of hypercalcaemia refer to the Scottish Palliative Care Guidelines For prevention of skeletal related events in patients with bone metastases. Refer to Woscan Guideline (intranet only) For adjuvant treatment of early breast cancer. Refer to Woscan Guideline (intranet only) For prevention of osteoporosis in patients on long term androgen deprivation therapy. Refer to WOSCAN guideline (intranet only) Pamidronate disodium Zoledronic Acid **Calcium Regulating Drugs** Parathyroid Hormones and Analogues Teriparatide (preferred brand in new patients - Movymia®)

Comment: Teriparatide is a biological medicine. Must be prescribed by brand name.

Teriparatide is approved by the SMC for the treatment of severe osteoporosis in post-menopausal women. Not SMC approved for use in men or steroid induced osteoporosis.

Drugs Affecting Bone Structure and Mineralisation

Monoclonal Antibodies

	Denosumab (60mg/ml Prolia®) + calcium & Vit. D/ Vit. D		✓	
increased i	Prolia [®] - is approved by the SMC for the treatment of postmenopausal osteorisk of fractures for whom oral bisphosphonates are unsuitable. Not SMC appaced osteoporosis.			
	Denosumab (70mg/ml Xgeva®)		✓	
Comment	Xgeva® - available in line with West of Scotland Cancer Network Protocols			
	Romoszumab (Evenity®) + calcium & Vit. D/ Vit. D		✓	
experience	: Romoszumab is approved for the treatment of severe osteoporosis in post- d a fragility fracture and are at imminent risk of another fracture within 24 mo num of 12 months.			
Calcium -	+ Vitamin D			
or over pre	For further information, also refer to <u>Guidelines for the Management of Ostesenting with a Fragility Fracture, and in Patients on Aromatase Inhibitors</u> (introduction of Control of Contro	eoporosis in Pat ranet only)	ients aged 50	
VIIAIIIIII D	Deficiency in Adults (intranet only) Accrete D3®One A Day Chewable Tablets (1st line)	1		
	· · · · · · · · · · · · · · · · · · ·	✓	✓	
	Adcal-D3® Caplets (2 nd line)	✓	✓	
	Adcal-D3® Dissolve effervescent tablets (3 rd line)	✓	✓	
Comment: Adcal-D3 Dissolve® is restricted to use in patients who are unable to take chewable tablets/caplets or with swallowing difficulties,				
Vitamin D				
	Colecalciferol 800 IU (20mcg)	✓	✓	
Comment: Vitamin D alone (colecalciferol) should be considered in patients with adequate dietary calcium intake				

5 Dopamine responsive conditions	Primary Care	Acute/ Specialist Services		
Dopamine-receptor agonists				
Cabergoline	+	✓		
6 Gonadotrophin responsive conditions	Primary Care	Acute/ Specialist Services		
Drugs affecting gonadotrophins				
Naferelin (Synarel®)	\$	✓		
Leuprorelin (Prostap®) (1st Line)	\$	✓		
Goserelin (Zoladex®)	\$	✓		
Triptorelin (Decapeptyl®)	\$	✓		
Uterine fibroids and Endometriosis				
Relugolix, estradiol hemihydrates, norethisterone acetate combination tablets (Ryeqo®)	\$	✓		
Linzagolix (Yselty®)	\$	✓		
Comment: Ryeqo® is approved for use in adult women of reproductive age for symptomatic treatment of endometriosis in those with a history of previous medical or surgical treatment for their endometriosis. It is also				

approved for use as 2nd line treatment for the management of moderate to severe uterine fibroids in line with SMC restrictions

Yselty® is approved for use as 2nd line treatment for the management of moderate to severe uterine fibroids in adult women of reproductive age, in line with SMC restrictions.

For Ryeqo® and Yselty®, specialists will undertake a baseline DEXA scan and then repeat after 12 months to confirm that there has not been an unwanted degree of BMD loss that exceeds the benefit of treatment. Specialist will also undertake ongoing patient reviews

Adrenocorticol function testing

Tetracosactide (Synacthen®)	✓