Comment: For further information refer to

Further Guidance on Hypoglycaemic Agents (Appendix 6a)
Recommendation for Blood Glucose Monitoring (Appendix 6b)

Blood Glucose Meter Recommendations (Appendix 6c)

6.1 Drugs	s used in Diabetes	Primary Care	Acute/ Specialist Services
6.1.1 Insuli	ins		
	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 metfor intolerance	min standard table	ets due to GI
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 more	e 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 with an eGFR ≥25ml/min to ≤ 75ml/min at treatment initiation and who are already receiving a ACE inhibitor or ARB (unless not tolerated or contra-indicated) and have a urine albumin creatinine ratio of at least 23mg/mmol or type 2 diabetes or both.

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

Glucagon-like peptide	e-1 receptor agonists (GLP1-RAs)			
Liraglutio	le (Victoza®)	+	✓	
Semaglu	tide (Ozempic®)	+	✓	
Semaglu	tide (Rybelsus [®]) Tablets	+	✓	
Liraglutio	le + Degludec (Xultophy®)	+	✓	
Comment: For GLP1-	RAs recommendation by Practitioner experienced	in the management of diabete	S	
6.1.4 Treatment of I	łypoglycaemia			
Glucago	n (Glucagen [®] Hypokit)	✓	✓	
Glucoge	(Glucogel®, GlucoRx®)	✓	✓	
Glucose	IV 20%		✓	
6.1.5 Treatment of Chronic Kidney Disease				
Finerend	one (Kerendia®)	φ	✓	

Comment: In line with SMC recommendation, finerenone is approved for the treatment of chronic kidney disease (stage 3 and 4 with albuminuria) associated with type 2 diabetes in adults. Specialist initiation. Once patient has been stabilised on treatment (after 4 months) can be continued in primary care.

5.2 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 no endocrinologists. It is an unlicensed medicine, there is considerable variability in forrevidence that it is more effective than levothyroxine		
endocrinologists. It is an unlicensed medicine, there is considerable variability in forr		
endocrinologists. It is an unlicensed medicine, there is considerable variability in forrevidence that it is more effective than levothyroxine		
endocrinologists. It is an unlicensed medicine, there is considerable variability in forrevidence that it is more effective than levothyroxine 6.2.2 Antithyroid Drugs	nulations and there	e is no clinical
endocrinologists. It is an unlicensed medicine, there is considerable variability in forrevidence that it is more effective than levothyroxine 6.2.2 Antithyroid Drugs Carbimazole (1st line)	nulations and there	e is no clinical

6.3.1 Cort	icosteroids	Primary Care	Acute/ Specialist Services	
6.3.1 Repla	cement Therapy			
	Fludrocortisone Acetate	✓	✓	
6.3.2 Glucocorticoid Therapy				
	Hydrocortisone Tablets	\$	✓	

Key ✓ Initiate and continue +Continue where appropriate.

Hydrocortisone Injection	✓	✓
Dexamethasone	✓	✓
Methylprednisolone	✓	✓
Prednisolone (standard tablets)	✓	✓

Comment: Prednisolone enteric coated (e/c) tablets are non-formulary. There is no evidence that prednisolone 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	Hormones	Primary Care	Acute/ Specialist Services
6.4.1 Fem	ale Sex Hormones		
6.4.1.1 Oe	estrogens and HRT		
	er information on the use of HRT see the enopause Society Tool for Clinicians – HRT Guide		
Combination	on 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)	✓	✓
2 nd line	FemSeven Sequi [®] (estradiol 50mcg/24hrs, levonorgestrel 10mcg/24hrs)	✓	✓
Continuou	s 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		<u> </u>	Γ
1 st line	Evorel Conti [®] (estradiol 50mcg/24hrs, norethisterone 170mcg/24hrs)	✓	✓
2 nd line	FemSeven Conti [®] (estradiol 50mcg/24hrs, levonorgestrel 7mcg/24hrs)	✓	✓
Oestrogen	only (for use in women with no uterus or using an alternative progeste	erone)	
Tablets			
	Estradiol hemihydrates 1mg or 2mg (Elleste-Solo®)	✓	✓
Patches			
1 st line	Evorel® (25mcg-100mcg)	✓	✓
2 nd line	Estradot® (25mcg-100mcg)	✓	✓

Key ✓ **Initiate and continue ♦Continue where appropriate.**

Transderm	al Gel		
	Oestrogel® (estradiol 0.06%)	✓	✓
Comment:	Oestrogel® for restricted use when patch formulations are considered ina	opropriate	
Gonadom	imetic		
	Tibolone	+	✓
6.4.1.2 P	rogestogens	·	
	Dienogest	+	✓
simple anal	Dienogest tablets are approved for the management of endometriosis. To gesia or the contraceptive pill has been ineffective, not tolerated or not coprimary 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 thromboen th aura	nbolism or who ha	ve a history of
	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	✓	✓

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 centrally and are available through the tertiary infertility centre. GPs should not prescribe.				
Human Growth Hormone				
Somatropin (preferred brands in new patients are FlexPro®, SurePal®) (daily administration	+	✓		
Somatrogon (Ngenla®) (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 ri	Prolia® - is approved by the SMC for the treatment of postmenopausal osteo isk of fractures for whom oral bisphosphonates are unsuitable. Not SMC apposed osteoporosis.				
	Denosumab (70mg/ml Xgeva®)		✓		
Comment:	nment: Xgeva® - available in line with West of Scotland Cancer Network Protocols				
	Romoszumab (Evenity®) + calcium & Vit. D/ Vit. D		✓		
experience	Comment : Romoszumab is approved for the treatment of severe osteoporosis in post-menopausal women who have experienced a fragility fracture and are at imminent risk of another fracture within 24 months. Duration of treatment is for a maximum of 12 months.				
Calcium +	· Vitamin D/Vitamin D				
or over pres	For further information, also refer to <u>Guidelines for the Management of Oste</u> senting with a Fragility Fracture, and in Patients on Aromatase Inhibitors (intro n and Treatment of Vitamin D Deficiency in Adults (intranet only)		ients aged 50		
Calcium +	· Vitamin D				
	Adcal-D3 [®] (caplets, chewable tablets) (1 st line)	✓	✓		
	Adcal-D3 Dissolve® effervescent tablets (2 nd line)	✓	✓		
Comment: Adcal-D3 Dissolve [®] is restricted to use in patients who are unable to take Adcal-D3 [®] caplets/chewable tablets					
Vitamin D					
	Colecalciferol 800 IU (20mcg)	✓	✓		
Comment:	Vitamin D alone (colecalciferol) should be considered in patients with adequate	uate dietary cald	cium intake		

5 Dopamine responsive conditions	Primary Care	Acute/ Specialist Services		
Dopamine-receptor agonists				
Cabergoline	+	✓		
Drugs affecting gonadotrophins				
Naferelin (Synarel®)	+	✓		
Leuporelin (Prostap®) (1st Line)	+	✓		
Goserelin (Zoladex®)	+	✓		
Triptorelin (Decapeptyl®)	+	✓		
Uterine Fibroids				
Relugolix, estradiol hemihydrates, norethisterone acetate combination tablets (Ryeqo®)	+	✓		
Comment: Ryeqo® is approved as a 2 nd line treatment option for the management of moderate to severe uterine fibroids in line with SMC restrictions. Specialist 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 with Ryeqo®. Specialist will also undertake ongoing patient reviews				
Adrenocorticol function testing				
Tetracosactide (Synacthen®)		✓		