Indication	Prevention of skeletal-related events (pathological fracture, radiation to bone, spinal cord						
marcacion	compression or surgery to bone) in adults with bone metastases from breast cancer and						
	from solid tumours.						
Treatment	Symptom management						
Intent							
	To be given every 4 weeks or alternative schedule of every 6 weeks						
Frequency and	To be given every 4 weeks or alternative schedule of every 6 weeks.						
number of	To continue for as long as clinically indicated or unacceptable toxicity.						
cycles							
Monitoring	Pre-existing hypocalcaemia must be corrected prior to initiating therapy with						
Parameters	denosumab and monitored for the first 3 months.						
pre-treatment	 Monitoring of calcium levels should be conducted (i) prior to the initial dose, (ii) 						
	within two weeks after the initial dose and (iii) if suspected symptoms of						
	hypocalcaemia occur						
	 Patients should have U&Es, bone profile, LFTs and FBC prior to the first 3 cycles. 						
	Thereafter they can be taken at the time of treatment, treatment may proceed,						
	and results checked when available. Patients at risk of hypocalcaemia should be						
	monitored more frequently as necessary or if suspected symptoms of						
	hypocalcaemia occur.						
	• Renal impairment: no dose adjustment necessary, however, use with caution in						
	patients with CrCl <30 ml/min as these patients are at greater risk of developing						
	hypocalcaemia.						
	Hepatic impairment: no data available.						
	• Patients should be advised to seek prompt medical attention if they develop signs						
	or symptoms of cellulitis.						
	 Denosumab is not recommended for use in pregnant women and women of 						
	childbearing potential not using contraception.						
	Osteonecrosis of the jaw						
	A dental examination with appropriate preventive dentistry is recommended for all						
	patients prior to the start of denosumab treatment.						
	 Do not start treatment in patients with an active dental or jaw condition requiring 						
	surgery or in patients who have not completely recovered following oral surgery.						
	A minimum of 4 weeks should have passed before starting treatment following						
	dental procedures where bone has been exposed or manipulated.						
	Patients should be encouraged to have regular dental check-ups whilst on						
	treatment, at least every 6 months.						
	While on treatment avoid dental procedures if possible.						
	If patients require invasive dental procedures (ie: dental extraction, surgical dental						
	extraction or root planing /deep scaling/root canal therapy) then the patient is						
	required, where possible, to stop treatment 8 weeks prior, and recommence						
	treatment when there is mucosal healing as assessed by a dental professional						
	(there is no need to wait 8 weeks post procedure if full mucosalisation has						
	occurred). NB Superficial dental fillings (drilling), normal hygiene appointments and						
	the provision of dentures and routine root canal therapy are not invasive dental						
	procedures and therefore there is no indication to stop denosumab for these.						
	• Patients who develop osteonecrosis of the jaw should be referred to a maxillofacial						
	surgeon.						
	 Caution is advised when denosumab is administered with anti-angiogenic drugs (eg 						
	bevacizumab, sunitinib, pazopanib), as an increase in the incidence of ONJ has						
	been observed in patients treated concomitantly with these medicinal products.						

Protocol No	SUPP-003	Kent and Medway SACT Protocol		
		Disclaimer: No responsibility will be accepted for the accuracy of this infor-		
		mation when used elsewhere.		
Version	V6	Written by	M.Archer	
Supersedes	V5	Checked by	C.Waters	
version			A.Repon	
Date	08.12.2023	Authorising consultant (usually NOG Chair) C.Moss		

	 Please refer to UK chemotherapy board guidance on medication related osteonecrosis of the jaw: <u>https://www.rcplondon.ac.uk/guidelines-</u> policy/medication-related-osteonecrosis-jaw-guidance-oncology-multidisciplinary- team
	 Osteonecrosis of the external auditory canal should be considered in patients who present with ear symptoms including chronic ear infections. During treatment patients should be advised to report any thigh, hip or groin pain and any patient presenting with such symptoms should be evaluated for an incomplete femur fracture.
References	KMCC protocol SUPP-006 KMCC protocol SUPP-003 v5

NB For funding information, refer to CDF NICE Drugs Funding List

Repeat every 4 weeks

Day	Drug	Dose	Route		Administration
1	Denosumab Xgeva®	120mg	Sub-cutaneous injection into the thigh, abdomen or upper arm		Once every 4 weeks
TTO	Drug	Dose	Route	Directions	
Day 1	Calcium 600mg & colecalciferol 400iu tablets (Adcal D3 [®])	1 tablet	РО	Once daily, chewed or sucked before swallowing. Dispense 56 tablets every other cycle.	

Repeat every 6 weeks

Day	Drug	Dose	Route		Administration
1	Denosumab Xgeva®	120mg	Sub-cutaneous injection into the thigh,		Once every 6 weeks
	0	0	abdomen or upper arm		
TTO	Drug	Dose	Route	Directions	
Day	Calcium 600mg &			Once daily, chewed or sucked before swallowing.	
1	colecalciferol 400iu	1 tablet	PO	Dispense 56 tablets every cycle.	
	tablets				
	(Adcal D3®)				

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