Cost impact of implementing a proactive fracture risk assessment strategy

A model based on NICE guidance^{1,2} and data⁴ from a joint working bone health initiative between the Academic Health Science Network North East and North Cumbria and Amgen Ltd delivered by Interface Clinical Services from Nov 2017–Nov 2018





158,946 people meet the criteria defined in NICE clinical guideline [CG146] for targeting fracture risk assessment



13,848 people were identified with a fracture risk above the upper intervention threshold (recommended for treatment)^{3,4}



10,611 of 13,848 people identified at high risk of fracture not receiving current BSA therapy⁴ (equating to 1.8% total practice population)

REFERENCES

- 1. National Institute for Health and Care Excellence (NICE, 2012) Osteoporosis: assessing the risk of fragility fractures. [NICE Clinical guidelines CG146]
- 2. NICE (2017). Bisphosphonates for preventing osteoporotic fragility fractures (including a partial update of NICE technology appraisal guidance 160 and 161). [NICE Technology appraisal guidance 170.64]
- 3. National Osteoporosis Guideline Group (NOGG, 2017). NOGG 2017: Clinical guideline for the prevention and treatment of osteoporosis
- 4. Interface Clinical Services 2018. North East and Cumbria practice level fracture risk assessment data. Data on file
- 5. NICE (2017). Bisphosphonates for preventing osteoporotic fragility fractures (including a partial update of NICE technology appraisal guidance 160 and 161). Committee Pagers







		Cirricar Se	i vices	North East and North Cum	
-			ures over a 3 year period in 10,611 risk population ^{4,5}	Direct care cost ⁴	
		223	Hip fractures	£1,883,911	
		208	Vertebral fractures	£1,006,652	
		318	Wrist fractures	£ 318,605	
		126	Humerus fractures	£ 181,716	
		Total 875	Total direct care costs attributed to 875 fractures	£3,390,884	
	Expected impact from treating 10,611 people for 3 years				
	3 year	3 years treatment with alendronic acid in 10,611people = £468,900 ⁵			
	275				

275 fractures could be prevented with effective bone sparing agent treatment^{4,5}



74 Hip



114 Vertebral



60 Wris



26 Humerus

▼£ 621,691

£ 553.659

▼£60,535

▼£38,160

£ 1,274,045 could be saved in direct care costs due to prevented fractures^{4,5}

£ 328,143 could be saved in residential/nursing home costs due to prevented fractures^{5,4}