

incidental finding on

secondary fracture

prevention pathway

imaging) please refer to

Draft guidance for the management of symptomatic vertebral fragility fractures (VFF)



First presentation & point Clinical assessment **Investigations** Initiation of treatment and acute pain management **Surgical intervention** Follow up & point of of entry to pathway (if indicated) exit from pathway Acute pain management to render If unremitting pain Make URGENT referral to 1) Pts presenting with **RED FLAGS PRESENT?** NO after 48 hrs (in spite of patient mobile at the earliest: local Spinal Unit for recent, sudden onset, - pain when lying & back pain often (but not (In-patients: early referral to pain acute pain mgmt) consideration of cement affects sleep Virtual follow up at Laboratory investigations: team if required) exclusively) following only _ that's still severely augmentation - h/o cancer or recent 2/12 post surgery with FBC; U&Es; Calcium; • Regular paracetamol +/- weak minimal trauma or even compromising ADLs & unexplained wt. loss the spinal team Phosphate; Alk PO4; LFTs; opioids mobility... simple daily activities. - acute myelopathy or Input outcome TSH; Coeliac screen; PRN strong opioids if needed -**Local Spinal Unit:** radiculopathy signs measures in British 2) Pts presenting with Myeloma screen (serum & beware opioid toxicity, delirium; • Ensure shared - acute cauda equina Arrange urgent MRI Spine Registry ongoing back pain - with urine protein - fever prophylaxis for constipation decision making (start with sagittal STIR features in the history & electrophoresis or serum - s/o spinal infection in • Use pain patches if unable to sequence - in case pt • If relevant, perform examination suggestive of free light chains); immunocompromised tolerate oral meds cement unable to tolerate) VFF +/-vit D (in accordance patient or TB Avoid NSAIDs & tramadol if augmentation If confirmed vertebral with guidelines) Key features and signs: possible (default to body oedema then... +/-testosterone (males Age ≥50 years • Use functional pain assessment vertebroplasty) YES <75) • Midline tenderness to score e.g. FAS (use PAINAD tool WITHIN 72 HRS OF 3/12 & 12/12 AFTER Symptoms improve: percussion over in pts with dementia) MDT DECISION **STARTING** posterior spinous • Pain management & • Provide clear & prompt guidance Send biopsy Assess absolute # risk TREATMENT. **EMERGENCY** or process(es) home exercise prog. on how to adapt movements • Input procedure in using FRAX®*or **URGENT** referral to treatment review by • +/- pre-existing kyphosis involved in day-to-day living & Patient struggling with **British Spine Registry** spinal team or cancer QFracture® within identified, responsible suggesting previous VFF exercises for posture & pain ongoing pain & reduced Immediate allowed age ranges service as clinically clinician to review • Do not routinely brace - only function > 3/12 post mobilisation indicated tolerance of bone Likely points of entry via: under exceptional circumstances injury: • Provide home sparing medication & General Practice; tier 2 • Refer to MCATs to be exercise programme address any concerns MSK (MCATs) service; ED; Consider whether bone triaged in virtual MDT or problems, effecting Limited criteria for Initiate bone sparing treatment other out-patient mineral density (should inc pain a change in treatment kyphoplasty, must be unless contraindicated in specialities; Imaging specialist & spinal assessment (DXA) is if necessary. Falls risk screening decided by the local accordance with local treatment appropriate, noting its surgeon) (defer if Ax MDT in agreement For pts requiring protocols, ensuring shared decision Thereafter, treatment limitations in this compromised by acute with Regional spinal making. Ensure pt is calcium & vit should be reviewed admission, there should population** but pain) network. D replete – use combined calcium be a clear policy in terms annually. DO NOT WAIT until pt Refer on for further & vit D preparation **or** colecalciferol of which specialty they has had a DXA to start Treatment 'holidays' Ax/mgmt as indicated are admitted under as indicated. Consider IV treatment are not appropriate if & in accordance with bisphosphonate or denosumab if at the individual is on local pathways immediate risk of fracture or if oral Pts with non symptomatic denosumab. bisphosphonate unsuitable VFF (e.g. VFF identified as

*Use of femoral neck BMD in FRAX® improves fracture prediction & allows for clinical interpretation against national guidance. However, it does not allow for inclusion of lumbar spine BMD. In addition, it underestimates the predictive value of vertebral fractures, multiple previous fractures and high-dose glucocorticoids. Note that FRAX® does not include falls risk. Additionally, in assessing 10yr absolute probability of fracture, it may lead to underestimation of the short-term risk of fracture in the older old, due to the competing risk of death from other causes within the time frame.

Throughout the pathway ensure: Shared decision making between patient & clinician – understand pts values, preferences, & priorities - using relevant patient decision aids as applicable. Personalisation with appropriate mechanism & timing of follow-up (virtual, patient initiated etc.) Access to information & support at all points in the pathway, to facilitate timely presentation (70% of vertebral fractures do not come to clinical attn) and ongoing, supported self-management (e.g. advice line, patient groups and societies, FAQ on website etc.)

^{**} DXA is not required if the patient has had a DXA scan already within the past two years. Additionally, it should be noted that DXA is a less reliable tool for diagnosing osteoporosis & predicting future fracture risk in those with lumbar spondylosis as the BMD results for this site will be spuriously elevated. If the patient has bilateral THR in situ or spinal instrumentation in the lumbar area then a BMD measurement at that site cannot be performed.