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VF+ and VF- patients (p=0.001). This result is further stressed in untreated T- subjects (p<0.0001). Treatment, any medication (T+), and drug therapy in particular, significantly counteract the difference between VF+ and VF- within groups (Table 1) and between groups with TBLβ values comparable to untreated VF- patients (p=0.319) and statistically higher than untreated VF+ (p=0.014).

Table 1 Lacunarity of trabecular bone microarchitecture, TBLβ, can assess osteoporosis fracture risk and treatment efficacy

Patients	n VF-/VF+ (%)	TBLβ		
		VF-	VF+	р
Overall	191/88 (100)	66±51	46±42	0.001
T-	121/35 (55.9)	67±51	36±29	0.001
T+, any medication	70/53 (44.1)	65±52	52±48	0.091
VitD/Ca supplements *	25/19 (35.8)	56±49	36±24	0.051
Drug therapy*	45/34 (64.2)	70±54	62±56	0.276
Bisphosphonates**	43/27 (88.6)	70±55	60±54	0.225

VF; prevalent vertebral fractures; T- without treatment; T+ with treatment; * % within T+ patients; ** % within drug therapy group; p: statistical significance from one-tail t-

Conclusions: These promising results stress the usefulness of the method as a diagnostic tool in the assessment of osteoporotic fracture risk and suggest a potential role of TBLβ as a marker of treatment efficacy. More intriguing results are expected from prospective LOTO data.

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FRI0528 SUCCESSFUL IMPLEMENTATION OF A PHARMACIST-LED FRACTURE LIAISON SERVICE AT A US VETERAN AFFAIRS (VA) HOSPITAL

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Background: Worldwide, an osteoporosis (OP) care gap exists for individuals with a fragility fracture (FF). Published data shows that US veterans are no exception. To address the OP care gap, fracture liaison services (FLS) are being implemented with the goal to prevent additional FF.

Objectives: Here we report the patient outcomes after initiating a FLS at a US Veterans Affairs (VA) hospital.

Methods: We identified veterans with a pelvic, hip and/or femur shaft fracture by querying a central database. Veterans with traumatic fractures, active OP medication, recent dual-energy X-ray absorptiometry (DXA) and/or hospice status were excluded. The remaining veterans were contacted via letter and the responsible primary health care team was sent a template letter with OP management recommendations via the electronic medical record. Recommendations included DXA, laboratory evaluation, and pharmacologic and non-pharmacologic interventions. In most cases, trained clinical pharmacists serving as FLS coordinators performed all tasks with an expert physician available for questions. Presented data are based on a review 4 months after recommendations were sent.

Results: The initial guery revealed 149 veterans with pelvic, femoral, and/or hip fractures without a recent DXA and/or active OP therapy. Of those, 32 (31 males, 1 female) patients suffered a FF and were included in the FLS intervention. Our review showed that 59% of these had a DXA scan, 35% had their calcium/vitamin D intake reviewed, and 40% had started OP therapy or were referred to an OP specialist. When the primary care team's clinical pharmacist instead of the primary care provider implemented the FLS recommendations (10/32), 100% of the recommendations were addressed. Furthermore, 70% of patients had a bisphosphonate ordered, whereas it was 9% when no pharmacist was involved (p=0.0004).

Conclusions: Our study suggests that a pharmacist-led FLS improves post-FF care in US veterans. We found a high percentage of OP care goals met when patients interacted with clinical pharmacists. This observation might be due to the fact that most pharmacists had dedicated training in OP management and their interaction with the patient focused on their FF. In summary, our data suggests that clinical pharmacists trained in OP management can very effectively implement a FLS intervention.

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FRI0529 ANALYSIS OF THE EVOLUTION OF CORTICAL AND TRABECULAR BONE COMPARTMENTS IN THE PROXIMAL FEMUR AFTER SPINAL CORD INJURY BY 3D-DXA

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Background: Spinal cord injury (SCI) is associated with a marked increase in bone loss and risk of osteoporosis development short-term after injury. 3D-DXA is a new imaging analysis providing volumetric measurements of the cortical and trabecular bone from DXA scans.

Objectives: The aim of this study was to assess the evolution of 3D femoral shape, trabecular macrostructure and cortical bone from DXA scans in patients with recent SCI followed over 12 months.

Methods: 16 males with recent SCI (<3 months since injury) were included. Clinical assessment, bone mineral density (BMD) measurements and 3D-DXA evaluation at proximal femur (analyzing the integral, trabecular and cortical volumetric BMD [vBMD] and cortical thickness) were performed at baseline and at 6 and 12 months of follow-up.

Results: vBMD measured by 3D-DXA significantly decreased at integral, trabecular and cortical compartments at 6 months (-31.1 mg/cm³, -8.8%, p<0.001; -25.4 mg/cm³, -11.6%, p=0.001; and -20.4 mg/cm³, -2.4%, p=0.004), with a further decrease at 12 months, resulting in an overall decrease of -58.9 mg/cm^3 (-16.6%, p<0.001), -47.9 mg/cm^3 (-21.9%, p<0.001) and -42.4 mg/cm^3 (-5%, p<0.001), respectively. Cortical thickness also decreased at 6 and 12 months (-8%, p<0.001; and -11.4%, p<0.001), with the maximal decrease being observed during the first 6 months. The mean BMD loss by DXA at femoral neck and total femur were -17.7% (p<0.001) and -21.1% (p<0.001), at 12-months, respectively. Integral vBMD values at baseline were positively correlated with total femur BMD (r=0.874, p<0.001), however no correlation was observed in the changes in these values at 12-months.

Conclusions: 3D-DXA shows the differentiation of the marked bone loss that occurs at both proximal femoral compartments (cortical and trabecular) short-term after SCI. The present data suggest that 3D-DXA could be a useful complementary assessment tool in SCI patients.

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FRI0530 EFECTIVENESS OF AN ORTHOGERIATRIC FRACTURE LIAISON SERVICE COMPARED WITH STANDARD CARE

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Background: Our fracture liaison service (FLS) for outpatients has reported to maintain 73% of the patients on antiresorptive 2 years after the fracture. For hip fracture we are concerned about the low capture rate (27%).

Objectives: To analyze the efectiveness of a FLS for inpatients with hip fracture compared with standard care.

Methods: Observational study carried out in two hospitals, one with a FLS (Hospital Negrin) and the other one with standard orthogeriatric care (Hospital Candelaria). The reference population >65 y from H.Negrin and H.Candelaria are 63,382 and 63,249 inhabitants respectively.

We included patient >65 y with fragility hip fracture ocurred between 1th March 2016 and 31th July 2016. Severe dementia, non-fragility fractures and those patients who died during hospital admittance were excluded. All patients underwent hemogram and biochemistry. The densitometry was not performed on any patient. The only difference between hospitals was a dedicated nurse from the FLS H.Negrin who visited inpatients twice a week, interviewed patients, gave education and applied a treatment protocol to be started by Primary Care.

Data recorded were: age, sex, previous fractures and previous treatment for osteoporosis, including calcium, vitamin D, bisphosphonates, denosumab and teriparatide. We also collected the treatment that was included in the discharge report and treatment six month later (checking the electronic prescription).

Results: We included 185 patients (105 from Hospital Candelaria and 80 from Hospital Negrin), mean age 82 y (Table). The percentage of patients receiving a bisphosphonate or equivalent before hospital admittance was similar in both hospitals. However, the percentage after discharge rose by 91% in the hospital with FLS and remain 8% in the hospital with standard care. After six months, 75% of patients from FLS and 15% of patients with standard care had a treatment.

Conclusions: The implementation of an orthogeriatric FLS lead to an increase in treatment for osteoporosis compared with standard care and similar to our outpatient FLS model. The ideal approach to secondary fracture prevention is a FLS model of care in an integrated health care network, overseen by a nurse