The Role of the FLS Coordinator

Josée Delisle, BScN, MSc

IOF Webinar, December 12th, 2017

Disclosures

I declare that in the past 3 years:

We have received support from the following companies:

through research grants

Eli Lilly Canada

I have done consulting work for the following companies:

Amgen

I have done speaking engagements for the following companies:

Eli Lilly Canada, Amgen

I or my family do not hold individual shares in the above-mentioned companies

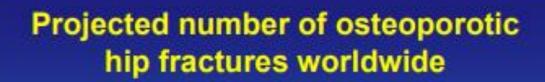
Presentation Outline

- Fragility Fracture
- Fracture Liaison Services
- Role of the coordinator
 - Dedicated vs standardized order set
- Challenges & Solutions
- FLS evaluation
- Capture The Fracture

- The impact of fragility fractures (FF) is a growing health care issue.
- Few management systems aiming to reduce and prevent secondary fractures are currently in place.
- Historically, fragility fractures were poorly recognized and poorly treated¹

- Wrist Fx:
 - 14% subsequent fracture at 3 years
- Vertebral Fx:
 - 20% subsequent fracture at 1 years
- Hip Fx :
 - 33% subsequent fracture at 1 years
 - 50% subsequent fracture at 5 years

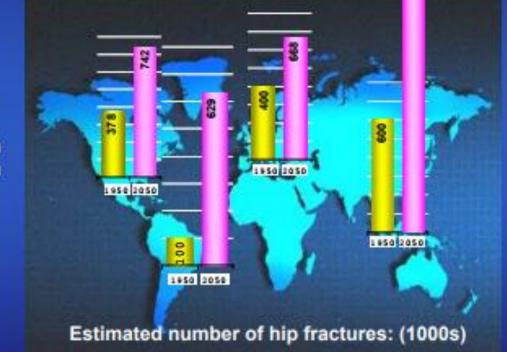
50% hip fracture patients had already sustained a previous fracture



Projected to reach 3.250 million in Asia by 2050

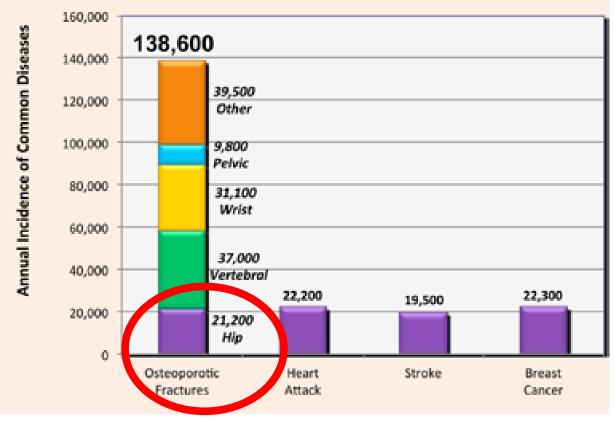
3250

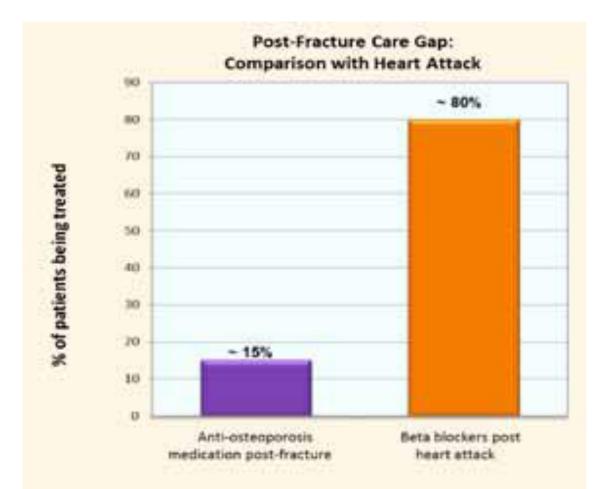
Total number of hip fractures: 1950 = 1.66 million 2050 = 6.26 million



Adapted from Cooper et al, Osteoporos Int. 1992; 2:285-9/ IOF Slide Kit

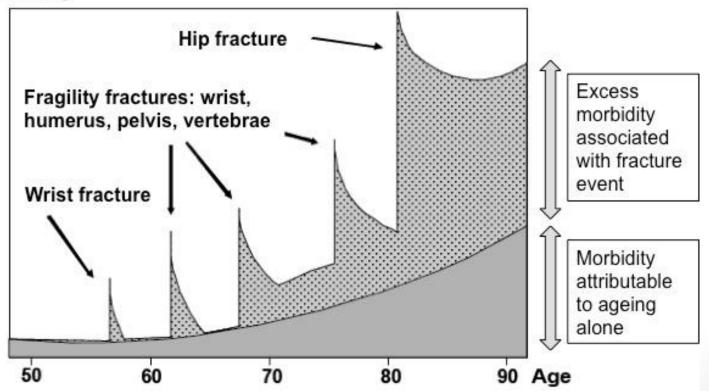
Incidence of Osteoporotic Fracture, Heart Attack, Stroke and Breast Cancer in Canadian Women





Osteoporosis and FF throughout the life course

Morbidity



CARE GAP

20% patients ID and/or treated

Fragmented System of Care

- Multiple doctors
- Multiple nurses

Impacts patient's Quality of Life (QoL)

Increase health care costs

Solution?

Build a team !





www.osteoporosecanada.ca

Royal College Falls and Fra of Physicians Audit Program

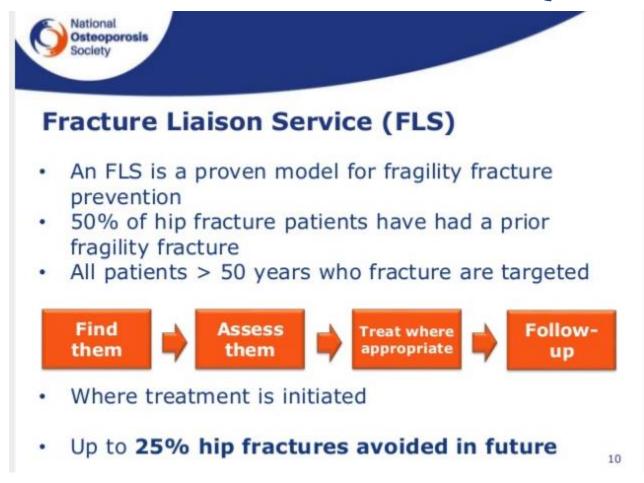
Falls and Fragility Fracture Audit Programme (FFFAP)

National Hip Fracture Database (NHFD) annual report 2016



http://www.nhfd.co.uk/

- All patients presenting with fragility fracture should be assessed to determine their need for antiresorptive therapy to prevent future osteoporotic fractures
 N H F D field 5 . 0 2
- All patients presenting with a fragility fracture following a fall should be offered multidisciplinary assessment and intervention to prevent future falls
 N H F D field 5 . 0 1



https://www.slideshare.net/NationalOsteoporosisSociety/iof-malaga-2016-preventing-future-fracturesimplementing-service-improvement-in-fracture-liaison-services-throughout-the-uk



Osteoporos Int (2011) 22 (Suppl 3):S457–S460 DOI 10.1007/s00198-011-1712-0

OPINION PAPER

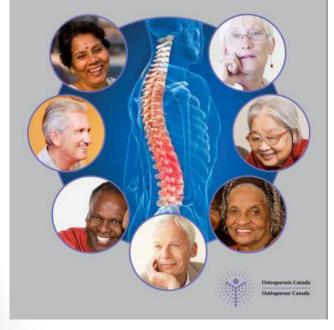
Fracture prevention in Kaiser Permanente Southern California

R. Dell

Abstract

The Kaiser Permanente Healthy Bones Program has used a systematic approach to address the osteoporosis/fracture care gaps. The article discusses the ten-step processes that utilize information technology and care managers to identify, risk stratify, treat, and then track our patients with care gaps. This program has led to 40+% reduction in the expected number of hip fractures in 2009 that we attribute to the increase in DXA screening followed by appropriate osteoporosis treatment.

Make the FIRST break the LAST with FRACTURE LIAISON SERVICES



The Cost Effective Solution — Closing the Gap with Fracture Liaison Services

Growing number of Fracture Liaison Services (FLS) in Canada. Ensures that all patients who present with a 'signal' fracture receive the osteoporosis care they need to prevent future fragility fractures.

The Benefits of FLS

- Improved quality of life
- Reduced incidence of avoidable fractures
- Reduced disruption to patient flow in the health care system
- Significant cost-savings
- (P.3)

Definition

- Usually coordinator-based
- secondary fracture prevention services
 - treatment of osteoporotic patients.

Goal

- Close the care gap
- Enhance communication between health care workers
- Provide care pathway



IOF CAPTURE the FRACTURE

http://www.capture-the-fracture.org/fracture-liaison-services

- Improves identification rates
- Promotes fracture risk assessment through BMD & Fracture risk assessment tools (FRAX, CAROC, Qfracture)
- Promotes standardized treatment initiation and adherence
- Decrease subsequent fracture rate



OUTCOMES RESEARCH

Outcomes of an osteoporosis disease-management program managed by nurse practitioners

Denise Greene, FNP-C, MSN¹, & Richard M. Dell, MD²

1 Kaiser Permanente, Orthopedics, 9897 Fonte RD Cypress Calif 2 Kaiser Permanente, Orthopedics, Bellflower, California

PERSPECTIVE

Making the First Fracture the Last Fracture: ASBMR Task Force Report on Secondary Fracture Prevention

John A Eisman,¹ Earl R Bogoch,² Rick Dell,³ J Timothy Harrington,⁴ Ross E McKinney Jr.,⁵ Alastair McLellan,⁶ Paul J Mitchell,⁷ Stuart Silverman,⁸ Rick Singleton,⁹ and Ethel Siris¹⁰ for the ASBMR Task Force on Secondary Fracture Prevention ¹Clinical Translation and Advanced Education, Garvan Institute of Medical Research; University of New South Wales; St Vincent's Hospital; and School of Medicine Sydney, University of Notre Dame, Sydney, NSW, Australia ²Mobility Program Clinical Research Unit, Keenan Research Centre, Li Ka Shing Knowledge Institute, St. Michael's Hospital; and Division of Orthopaedics, Department of Surgery, University of Toronto, Toronto, Canada ³Orthopedics, Kaiser Permanente Southern California, Downey, CA, USA ⁴Professor of Medicine (retired), University of Wisconsin School of Medicine and Public Health; Joiner Associates LLC, Madison, WI, USA ⁵Duke University School of Medical Center, UCLA, Los Angeles, CA, USA ⁹Rheumatology, Cedars-Sinai Medical Center, VCLA, Los Angeles, CA, USA ⁹Pastoral Care and Ethics, Health Sciences Centre, St. John's, NL, Canada ¹⁰Columbia University Medical Center, New York, NY, USA

IBMR

Key stakeholders

- Physician champions
- NP/RN Fracture Care Providers
 - Coordination
- Administration
 - Policy

Fracture Liaison Service (FLS) FLS Team members

- Orthopaedic Surgeons
- Primary Care Physicians
- Nurses/NP/PA
- Inpatient Services
- Internal Medicine
- Rheumatology
- Endocrinology
- Gynecology
- Radiology
- Pharmacy
- Physical Therapy (Fall Prevention program)
- Long Term Care
- Health Education
- Home Health

Lisa Voss PA-C, MHS, CCD Laura Frontiero FNP-C, MSN, CCD FLS Care Coordination. Interdisciplinary Symposium on Osteoporosis (ISO14) in New Orleans, Louisiana, April 23-26, 2014.



Table 1. Post-fracture models of care and improvement in patient care outcomes⁶⁶

Model	Description	Proportion receiving BMD testing*	Proportion receiving osteoporosis treatment
Status Quo⁵⁴	Manitoba statistics for major osteoporotic fractures (2007/2008)	13%	8%
Type D (Zero i model)	Only provides osteo- porosis education to the fracture patient. Primary care provider (PCP) is not alerted or educated.	No study on BMD testing	8%
Type C (1 i model)	1. Identification The PCP is alerted that a fracture has occurred and further assessment is needed. Leaves the investigation and initiation of treatment to the PCP.	43%	23%
Type B (2 i model)	 Identification Investigation Leaves the initiation of treatment for fragility fracture patients to the PCP. 	60%	41%
Type A (3 i model)	 Identification Investigation Initiation of osteoporosis treatment where appropriate. 	79%	46%

* Although BMD testing is an important aspect of post-fracture care, in and of itself it cannot impact the rate of repeat fractures. Osteoporosis medication is necessary in order to reduce the rate of repeat fractures.

Osteoporosis Canada FLS toolkit 2013

The Fracture Liaison Service! $\rightarrow 4is$

- Identify FF
- Investigate for bone fragility
- Initiate preventive therapy
- Integrate to multidisciplinary follow-up

Effective Secondary Prevention of Fragility Fractures:

National Osteoporosis Society

Clinical Standards for Fracture Lialson Services

5IQ approach

Identification Investigation Information Intervention and Integration Quality

The first 4 is... Identification Investigation Intervention Integration

1st Identify FF

- Patients over 50 years old with fragility fracture
- Pro Active screening (in patient & out patient)
- Emergency departement
- Vertebral Fractures (radiology)

2nd Investigate for bone fragility

- Bone Mineral Density (BMD)
 - DEXA
- Risk Assessment Tool
 - FRAX (<u>https://www.sheffield.ac.uk/FRAX/tool.aspx</u>)
 - Qfracture (<u>http://www.qfracture.org/index.php</u>)
 - CAROC (<u>https://www.osteoporosis.ca/multimedia/pdf/CAROC.pdf</u>)

FRAX



Les facteurs de risques utilisés sont les suivants:

Qfracture

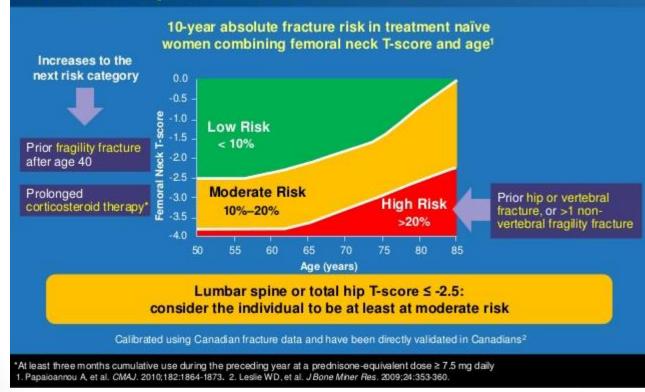
ClinRisk Welcome to the QFracture [®] -2016 risk calculator: http://qfracture.org									
Reset Information Publications About	t Copyright	Contact Us	Algorithm	Software					
Age (30-99): 64									
Sex: OMale Female Ethnicity: White or not stated	Your risk of having any osteoporotic (i.e. hip, wrist, shoulder or spine) fracture or hip fracture alone within the next 10 years is: Hip, wrist, shoulder or spine fracture 18.4%								
Clinical information Smoking status: non-smoker	1		Hip fracture	•	4.2%				
Alcohol status; none diabetes: none	In other words, in a crowd of 100 people like you, 18 will develop osteoporotic fracture of hip, wrist, shoulder or spine within the next 10 years. Similarly, 4 will develop hip fracture within the next 10 years. This is represented by the smileys below.								
Do either of your parents have osteoporosis/hip fracture? Do you live in a nursing or care home? Have you had a wrist spine hip or shoulder fracture? History of falls? Dementia? Cancer? Asthma or COPD?									
Heart attack, angina, stroke or TIA Chronic liver disease? Chronic kidney disease (stage 4 or 5)? Parkinson's disease?			fracture of hip, w shoulder or spin		hip fracture				
Rheumatoid arthritis or SLE? Malabsorption eg Crohn's disease, ulcerative colitis, coeliac disease, steatorrhea or blind loop syndrome?									
Endocrine problems eg thyrotoxocosis, hyperparathyroidism, Cushing's syndrome? Epilepsy or taking anticonvulsants?									
Taking antidepressants?									
Taking oestrogen only HRT? Leave blank if unknown									
Body mass index Height (cm): 165 Weight (kg): 57									
Calculate risk over 10 V years. Calculate risk									

Copyright @ 2012-16 ClinRisk Ltd. ALL RIGHTS RESERVED.

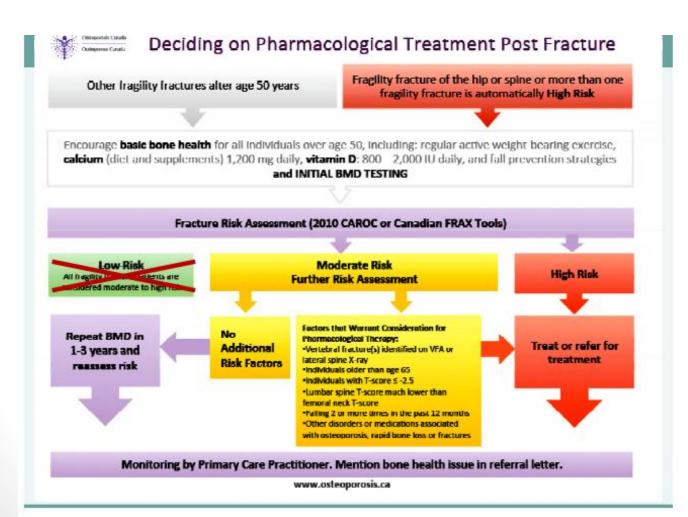
Materials on this web site are protected by copyright law. Access to the materials on this web site for the sole purpose of personal educational and research use only. Where appropriate a single print out of a reasonable proportion of these materials may be made for personal education, research and private study. Materials should not be further copied, photocopied or reproduced, or distributed in electronic form. Any unsuthorised use or distribution for commercial purposes is expressly forbidden. Any other unsuthorised use or distribution of the materials may constitute an infringement of ClinRisk Ltd.'s copyright and may lead to lead action.

CAROC

Calculating 10-Year Absolute Fracture Risk for Postmenopausal Women: CAROC



Fracture Liaison Service (FLS) 3rd Initiate preventive therapy



4th Integrate to multidisciplinary follow-up

<u>Monitor</u>

Adherence to treatment

Fall hx

Subsequent fracture

Fracture under treatment (treatment failure)





An FLS, made up of a committed team of stakeholders, **employs a dedicated coordinator** to act as the link between the patient and the orthopaedic team, the osteoporosis and falls prevention services, and the primary care physician.

> THE CARE OF PATIENTS WITH FRAGILITY FRACTURE

``A Fracture Liaison Service, <u>delivered by</u> <u>a Nurse Specialist</u>, is a proven approach to the identification, assessment and treatment of fracture risk, and this model should be considered in all units.``(page 5)

Published by the British Orthopaedic Association September 2007



Osteoporosis Canada

Ostéoporose Canada

 <u>A dedicated coordinator</u> is central to the FLS model of care:
 a. exclusively responsible and accountable for all the FLS functions OR

b. exclusively responsible and accountable for the first FLS function (identification) and for the transfer of the second and/or third FLS functions (investigation and initiation) to a clearly designated osteoporosis expert or osteoporosis specialty team.

https://osteoporosis.ca/wp-content/uploads/Osteoporosis-Canada-Essential-Elementsof-an-FLS.pdf

FLS Essential element



Clinical Standards for Fracture Liaison Services in New Zealand • <u>Appoint a FLS Coordinator who is typically a</u> <u>Nurse Specialist or Allied Health Professional</u>. (page 1)

OSTEOPOROSIS NEW ZEALAND Better fource, feaver fourcourse

2017

The Role of the Nurse in Osteoporosis Management

- Coordinate multidisciplinary team
- Manage FLS
- Identify, Investigate (risk assessment)
- Educate and counsel patient
- Initiate treatment (creat treatment plan)
- Integrate patient into follow up
- Evaluate adherence

FLS Coordinator

FLS Coordinator

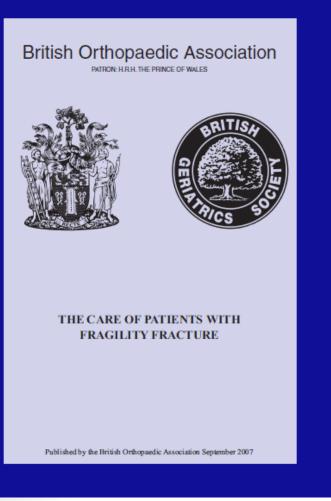
- **1-Dedicated FLS Coordinator**
 - Nurses
 - Allied Health professionnals
 - Nurse Practitionners
 - Non-clinical personnel

2-Standardized Order Set

Hospital Staff Nurses

Dedicated FLS Coordinator

Dedicated FLS Coordinator

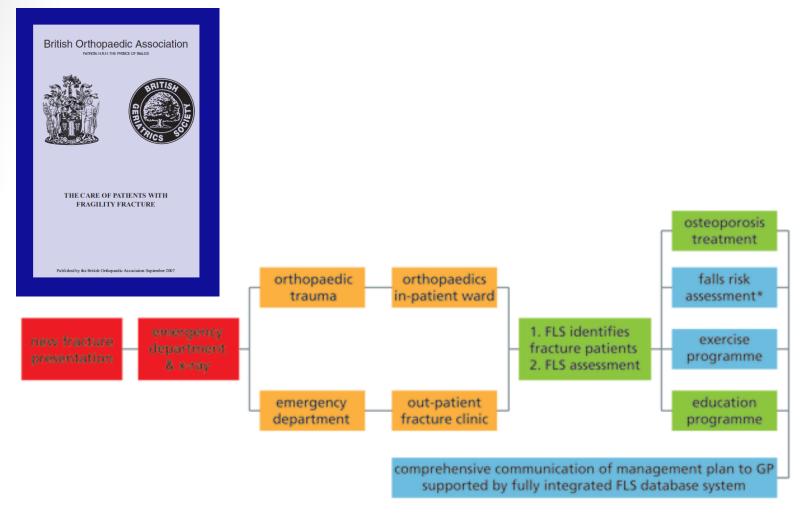


Lead by Nurse Specialist

- Involves Multidisciplinary Team
 - orthopaedic surgeons,
 - geriatricians,
 - nursing staff
 - allied health professionals

http://www.capture-the-fracture.org/fracture-liaison-services

Dedicated FLS Coordinator



* Older patients, where appropriate, are identified and referred for falls assessment

http://www.capture-the-fracture.org/fracture-liaison-services

Copyright © 2006 by The Journal of Bone and Joint Surgery, Incorporated

EFFECTIVE INITIATION OF OSTEOPOROSIS DIAGNOSIS AND TREATMENT FOR PATIENTS WITH A FRAGILITY FRACTURE IN AN ORTHOPAEDIC ENVIRONMENT

BY EARL R. BOGOCH, MD, VICTORIA ELLIOT-GIBSON, MSC, DORCAS E. BEATON, PHD, SOPHIE A. JAMAL, MD, PHD, ROBERT G. JOSSE, MD, AND TIMOTHY M. MURRAY, MD

Investigation performed at St. Michael's Hospital, Toronto, Ontario, Canada

The Osteoporosis Exemplary Care Program coordinator

- Designed to overcome systemic and individual barriers
- Offers coordination among the orthopaedic, endocrinology, and nuclear medicine units
- Provides continuum of care
- Based on guidelines for osteoporosis care

The Osteoporosis Exemplary Care Program coordinator

1- Screening (Monday through Friday),

- all fracture clinic outpatients
- orthopaedic inpatients

2-Consulting

- attending orthopaedic surgeon
- resident

3-Reviewing patient's chart

4-Interviewing patient

- 5-Confirming enrollment
- 6-Organizing Bone mineral density testing
 - (if one had not been performed in the previous twelve months)

7-Booking Metabolic Bone Disease Clinic appointment





Ontario Osteoporosis Strategy Inpatients

1-Contacting

- unit pharmacist
- dietician
- orthopaedic resident
 - initiate vitamin-D (800 IU daily)
 - calcium (500 mg twice daily)
- 2- Organizing antiresorptive therapy
 - Metabolic Bone Disease Clinic
 - orthopaedic surgeon
 - Resident

Bogoch ER, Elliot-Gibson V, Beaton DE, Jamal SA, Josse RG, Murray TM.<u>Effective initiation of osteoporosis diagnosis and treatment for patients with</u> a fragility fracture in an orthopaedic environment. J Bone Joint Surg Am. **2006** Jan;88(1):25-34.

Stronger bone Better Bues ONTARIO STEOPOROSIS STRATIGY

Inpatients

If incomplete:

- 3- Organizing FU
 - Metabolic Bone Disease Clinic within two to three months
 - coordinator at their outpatient fracture clinic follow-up visit

4-Notifying Family Physician after 6 months

 supplements and any pharmacotherapy that were initiated

Bogoch ER, Elliot-Gibson V, Beaton DE, Jamal SA, Josse RG, Murray TM. Effective initiation of osteoporosis diagnosis and treatment for patients with a fragility fracture in an orthopaedic environment. J Bone Joint Surg Am. 2006 Jan;88(1):25-34.

Education

- Orthopaedic residents
 - educational materials (first week rotation)
 - regular contact with the program coordinator



Bogoch ER, Elliot-Gibson V, Beaton DE, Jamal SA, Josse RG, Murray TM. Effective initiation of osteoporosis diagnosis and treatment for patients with a fragility fracture in an orthopaedic environment. J Bone Joint Surg Am. 2006 Jan;88(1):25-34.

Initial consultation after confirmation inclusion in the program

Data collection Gender Age Mechanism of injury Fracture site Hx diagnosis and treatment of osteoporosis, Referral pattern Diagnosis and treatment of osteoporosis

Bogoch ER, Elliot-Gibson V, Beaton DE, Jamal SA, Josse RG, Murray TM.<u>Effective initiation of osteoporosis diagnosis and treatment for patients with</u> a fragility fracture in an orthopaedic environment. J Bone Joint Surg Am. **2006** Jan;88(1):25-34.

Better lives.

ONTARIO OSTEOPOROSIS STRATEGY

Baseline questionnaires (outpatients and inpatients voluntary basis)

- hospital visit
- hospital stay
- later at home (mailing it back)
- Hx fractures and other risk factors for osteoporosis
- sociodemographic characteristics
- health beliefs relating to osteoporosis
- Osteoporosis Self-Efficacy Scale*
- Consent implied if the patient completed and returned questionnaires

RATEGY

Follow-up questionnaire (mailed at six months)

- rates of referral to and attendance at the Metabolic Bone Disease Clinic
- patients' knowledge of the BMD results
- compliance with treatment
- New fragility fractures at any site
- health beliefs and self efficacy related to osteoporosis.

*Horan ML, Kim KK, Gendler P, Froman RD, Patel MD. Development and evaluation of the Osteoporosis Self-Efficacy Scale. Res Nurs Health. 1998;21:395-403.

Bogoch ER, Elliot-Gibson V, Beaton DE, Jamal SA, Josse RG, Murray TM.<u>Effective initiation of osteoporosis diagnosis and</u> treatment for patients with a fragility fracture in an orthopaedic environment.J Bone Joint Surg Am. **2006** Jan;88(1):25-34.



Coordinator

Further intervention initiated (identified needs in questionnaire)

Appointment rescheduling

Encouraging patient to pursue osteoporosis investigation and treatment

Bogoch ER, Elliot-Gibson V, Beaton DE, Jamal SA, Josse RG, Murray TM. Effective initiation of osteoporosis diagnosis and treatment for patients with a fragility fracture in an orthopaedic environment. J Bone Joint Surg Am. 2006 Jan;88(1):25-34.

61 - A 11 C 1

National Osteoporosis Society (NOS) FLS Standards

Osteoporosis Society **Effective Secondary Prevention** of Fragility Fractures: Clinical Standards for Fracture Liaison Services **FLS** Coordinators

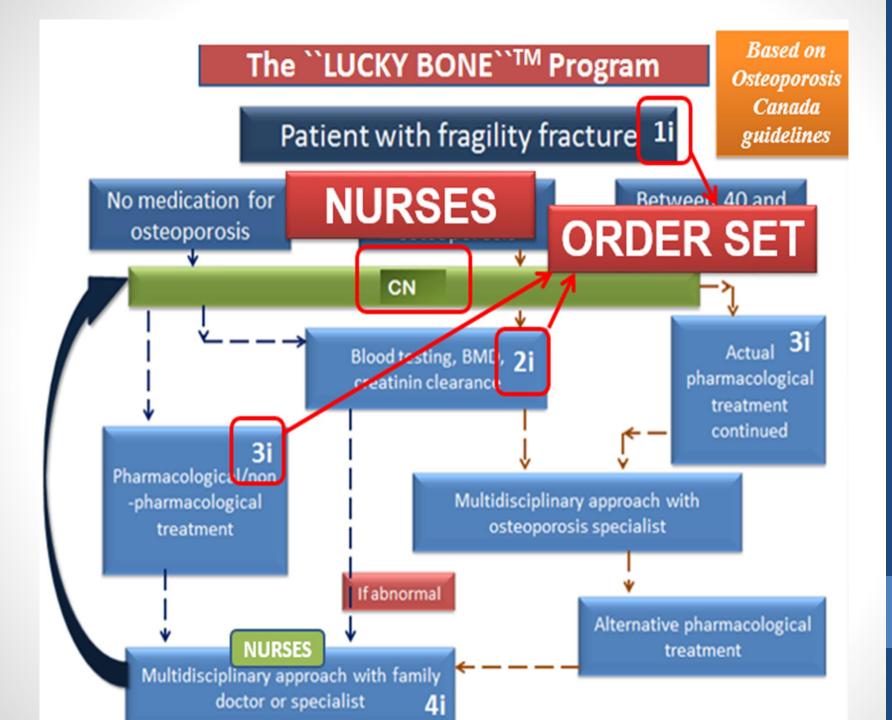
Effect the 5IQ approach

Identification Investigation Information Intervention and Integration Quality

``Staffing levels will vary depending on the expected number of fractures being reviewed by the FLS. However, <u>single</u> <u>practitioner services are discouraged due</u> <u>to issues with continuity of service that</u> <u>arise during leave.</u>`` (p.36)

https://staging.nos.org.uk/media/1776/clinical-standards-report.pdf

Standardized Order Set



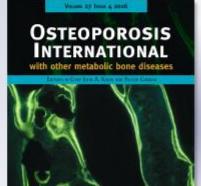
Agreement between physicians' and nurses' clinical decisions for the management of the fracture liaison service (4iFLS): the Lucky Bone[™] program

A. Senay, J. Delisle, J. P. Raynauld, S. N. Morin & J. C. Fernandes

Osteoporosis International With other metabolic bone diseases

ISSN 0937-941X Volume 27 Number 4

Osteoporos Int (2016) 27:1569-1576 DOI 10.1007/s00198-015-3413-6



Springer



Order Set

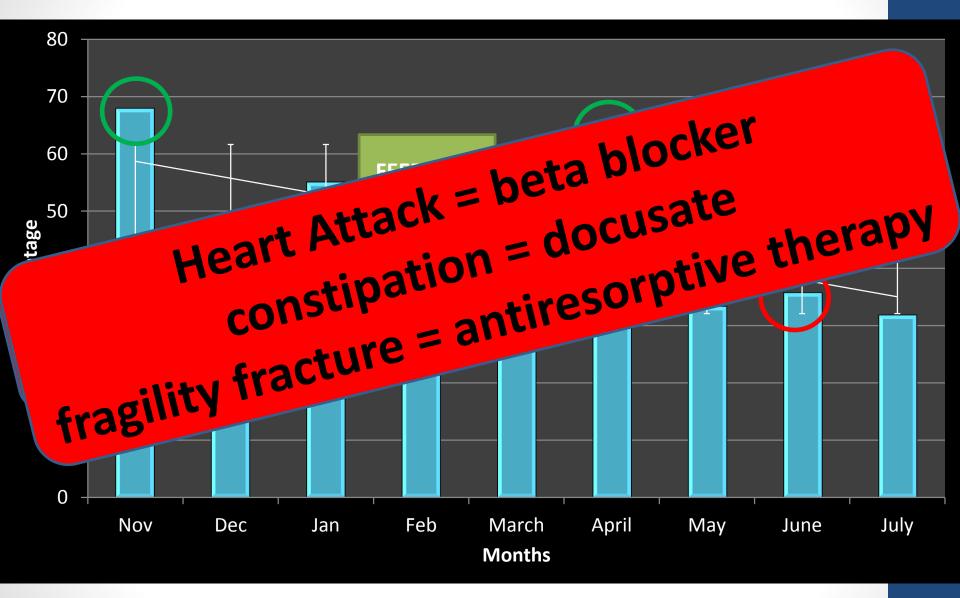
- 1st ``i`` (identification)
 - Emergency (ED) and out patient clinic (OC) nurses
- 2nd and 3rd ``i`` (investigation and initiation of treatment)
 - Medical Day Unit (MDTU) nurses

Order Set

Initiate treatment

Calcium 500 mg po BID Vitamin D 10 000 iu po 1 per week + Oral bisphosphonates

Results Rates of FF identification per month over 9 months





Order set applied \rightarrow 70% Order set not applied \rightarrow 30% (standard care)

FLS studies

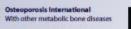
• 60-80% ID rates with dedicated manager

Order Set

The impact of a standardized order set for the management of non-hip fragility fractures in a Fracture Liaison Service

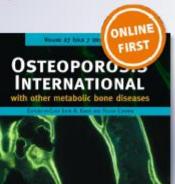
A. Senay, J. Delisle, M. Giroux, G. Y. Laflamme, S. Leduc, M. Malo, H. Nguyen, P. Ranger & J. C. Fernandes

D Springer



ISSN 0937-941X

Osteoporos Int DOI 10.1007/s00198-016-3669-5



() Springer

routine practice

lelines of care





- IT team= Identify patients at risk!!!
- Just in time consultation
 - Offered on site after patient's DXA
 - Consults range from 20-40 minutes
 - Based on DXA results, tech sends patient to the NP/PA
 - Osteoporosis by T-score
 - Osteopenia high FRAX
 - Fragility fracture
 - High risk group



Osteoporos Int (2011) 22 (Suppl 3):S457–S460 DOI 10.1007/s00198-011-1712-0

OPINION PAPER

Fracture prevention in Kaiser Permanente Southern California

R. Dell

Abstract

The Kaiser Permanente Healthy Bones Program has used a systematic approach to address the osteoporosis/fracture care gaps. The article discusses the ten-step processes that utilize information technology and care managers to identify, risk stratify, treat, and then track our patients with care gaps. This program has led to 40+% reduction in the expected number of hip fractures in 2009 that we attribute to the increase in DXA screening followed by appropriate osteoporosis treatment.

Challenges & Solutions!

Challenge

1 st i - ESSENTIAL FLS SUCCESS!!

Identification at risk patients

Solution

- IT List- Pop Up
- Hospital Policy
- Standardized Algorithm
- Involved radiology department (vertebral fractures)



Challenge

1 st i - ESSENTIAL FLS SUCCESS!!

Patients' refusal









2nd i Challenges

Mis-interpretation of FRAX

 Over and under treating based on fracture risk

Basing risk on T score alone!

Lisa Voss PA-C, MHS, CCD Laura Frontiero FNP-C, MSN, CCD FLS Care Coordination. Interdisciplinary Symposium on Osteoporosis (ISO14) in New Orleans, Louisiana, April 23-26, 2014.

Solutions



Challenges

3rd i Challenges

Initiation of treatment

- Orthopaedist responsability (they don't think so)
- Primary care physician often unaware of fracture
- Ignoring osteoporosis (DEXA-osteopenia)
- Taking patients off meds prematurely (fear Severe side effects)
- Not trying alternative therapy options
- Adherence to treatment

Lisa Voss PA-C, MHS, CCD Laura Frontiero FNP-C, MSN, CCD FLS Care Coordination. Interdisciplinary Symposium on Osteoporosis (ISO14) in New Orleans, Louisiana, April 23-26, 2014.

Solutions





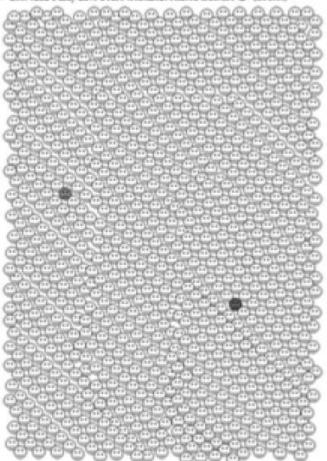


Solutions

THE RISK OF TAKING BONE STRENGTHENING MEDICATION

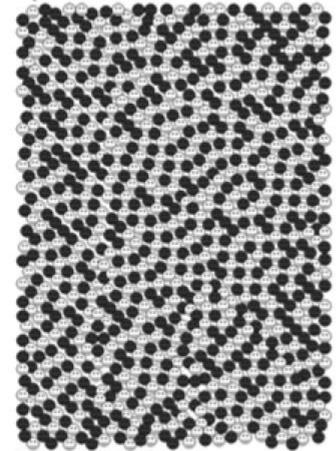
Out of 1,000 people on Osteoporosis medication for 5 years:

- Less than 1 may have a jaw problem (11/1000) - Less than 1 may have a rare treatment related fracture (16/1000)



YOUR RISK OF FRACTURE

Out of 1,000 women, 500 will suffer a fracture without treatment for Osteoporosis!



Lisa Voss PA-C, MHS, CCD Laura Frontiero FNP-C, MSN, CCD FLS Care Coordination. Interdisciplinary Symposium on Osteoporosis (ISO14) in New Orleans, Louisiana, April 23-26, 2014.

Afterwards....

EVALUATE your FLS

Evaluate....

NOS Standards

National Osteoporesis Society

Effective Secondary Prevention of Fragility Fractures:

Clinical Standards for Fracture Liatson Servic

	CRITERIA	RATIONALE	MEASURES	OUTCOMES
	Integration			
6	Management plans will be patient-centred and integrated between primary and secondary care.	Effective communication is essential to ensure that long-term management is achieved and that patients are supported to engage with recommended interventions.	Measure of communication including % of patients copied in to FLS letters.	Pasient feels supported. Itsues with treatment compliance and adherence are identified promptly. Adherence to treatments is improved leading to greater patient benefit.
7	Patients who are recommended drug therapy to reduce risk of fracture will be reviewed within 4 months of initiation to ensure appropriate treatment has been started, and every 12 months to monitor adherence with the treatment plan.	Treatments must be taken consistently and appropriately over many years to be effective. Follow- up allows early identification of assure take effects, compliance) with prescribed medications, reinforces need to take treatments and supports long-term concordance.	% of patients recommended drug therapy who have initiated treatment by 4 months following fracture. % of patients on treatment who have been reviewed within the last 12 months.	
	Quality			
8	Core clinical data from patients identified by the FLS will be recorded on a database. Regular audit and patient experience measures, will be performed and the FLS will participate in any netional audits undertaken.	Data recorded will allow the FLS to audit and improve the service they provide ensuring that high standards are met and maintained. Initial data will provide a baseline from which improvements can be assessed.	Date of last audit against FLS standards. Date of last patient satisfaction survey.	Excellent quality of care is provided and best practice is shared.
0	The FLS team will have appropriate competencies in secondary fracture prevention and will maintain televant Continued Professional Development (CPD).	All staff need appropriate knowledge, skills and experience to fulfil their role. Engagement with rolevant CPD activities ensures that these are up to date.	Review of competencies and training needs in annual appraisals. Assessment of CPD attained.	
10	The FLS should engage in a regular peer-review process of quality assurance.	Clinical peer review facilitates quality standard assurance, equitable access to services, and provides a means of benchmarking and sharing best practice.	Date of last peer review and progress against an agreed action plan.	

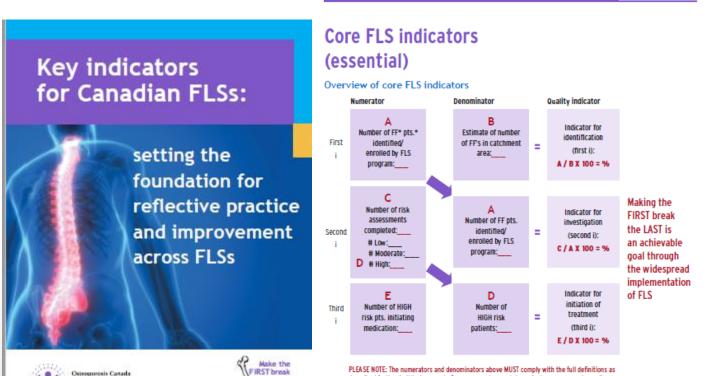
https://staging.nos.org.uk/media/1776/clinical-standards-report.pdf

Evaluate....

Ostéoporose Canada

PDSA (Plan-Do-Study Act): IOF, NOS, OC

the LAST



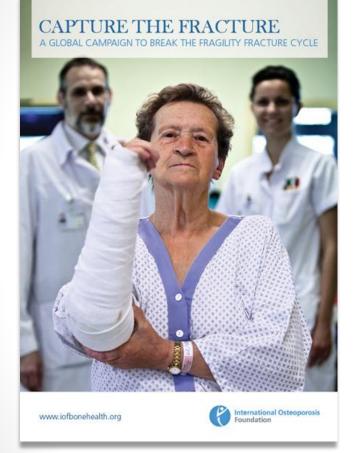
PLEASE NOTE: The numerators and denominators above MUST comply with the full definitions as described further in this document. Some numerators and denominators may vary depending on FLS type, i.e. inpatient-only FLS, outpatient-only FLS or combined inpatient/outpatient FLS.

 FF stands for "fragility fracture". Pts stands for patients.

Where do we start???



Capture the Fracture®



- A global flagship programme by the International Osteoporosis Foundation (IOF)
- Launched in 2012
- <u>Mission</u>: facilitating the implementation of FLS to prevent secondary fractures.



Best Practice Framework- health care quality

Aim:

- 1. Set the standard for FLS
- 2. Guidance
- 3. Benchmarking and Quality improvement



www.capturethefracture.org



Akesson OI 2013

13 Criteria and Standards

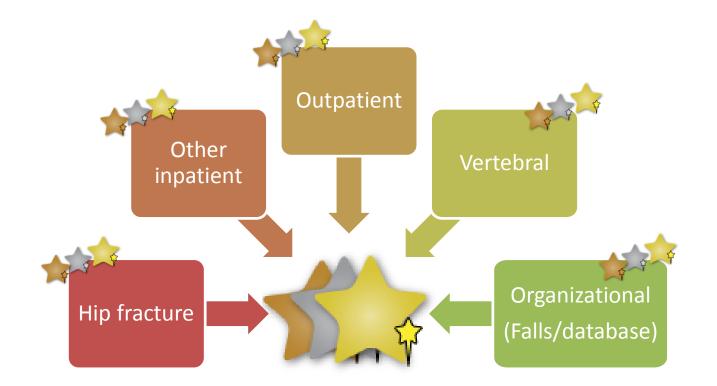
- **1. Patient Identification**
- 2. Patient Evaluation
- 3. Post Fracture Assessment Timing
- 4. Vertebral Fracture (VF) ID
- 5. Assessment Guidelines
- 6. Secondary Causes of OP
- 7. Falls Prevention Services
- 8. Multifaceted Assessment
- 9. Medication Initiation
- **10. Medication Review**
- **11. Communication Strategy**
- 12. Long-term Management
- 13. Database

Standard 1 definition:

Fracture patients are identified to enable delivery of secondary fracture prevention

Standard	Bronze	Silver	Gold
Patient Identification	Patients identified, <i>not</i> tracked	Patients identified, <i>are</i> tracked	Patients identified, tracked & independently reviewed

SCORING: 5 domains



Running an FLS?

Join the Capture the Fracture[®] Programme

Why join?

- Showcase your achievements
- Learn from the BPF to improve your service
- Get international recognition with a Gold, Silver, or Bronze star
- Be part of a global invitiative to prevent secondary fractures

Who can participate?

- Coordinator-based models of care
- All type of facilities
- At any stage in development
- Any size worldwide



The Process

Step 1

FLS submits online application

Step 2

FLS marked in green on the map while being reviewed

Step 3

BPF achievement level assigned

Step 4

FLS is scored and recognized on the map









https://youtu.be/gpAAvvukjQw

247 FLS, 37 countries, 6 continents



Take home message

It doesn't matter how you get there; Just get there!

-Scottie Somers

Thanks to our CTF sponsors

Inspired by patients. Driven by science.

AMCEN®

Acknowledgements

On behalf of IOF and the CTF steering committee, we thank you for your participation in this webinar.

If you have any additional questions, comments or feedback please email capturethefracture@iofbonehealth.org

