Capture the Fracture®



Professor Jean-Yves Reginster, MD, PhD

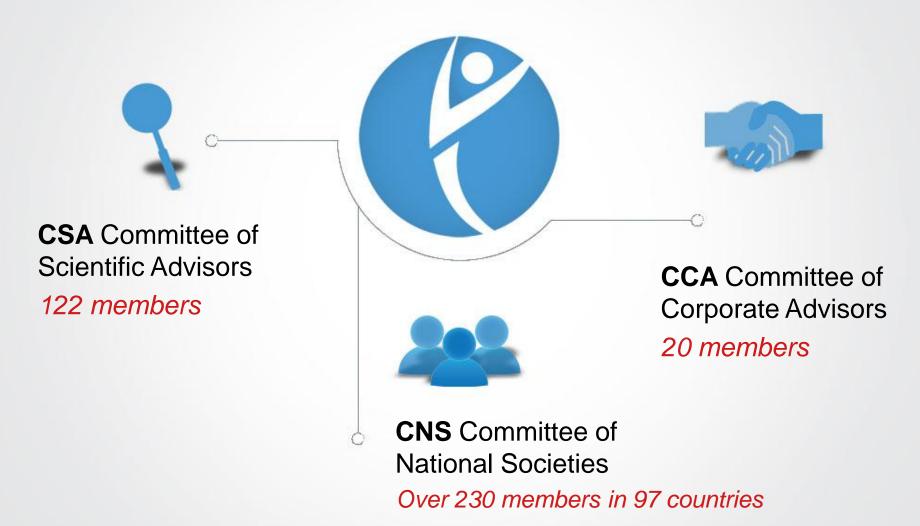
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IOF: OUR STRUCTURE

all stakeholders united around one common mission



The Burden of Fragility Fractures

Fragility fractures are common

 1 in 3 women and 1 in 5 men over 50 years of age. One fracture every 3 seconds

Fractures affect quality of life

- Functional decline, loss of independence
- Mortality

Fractures are costly

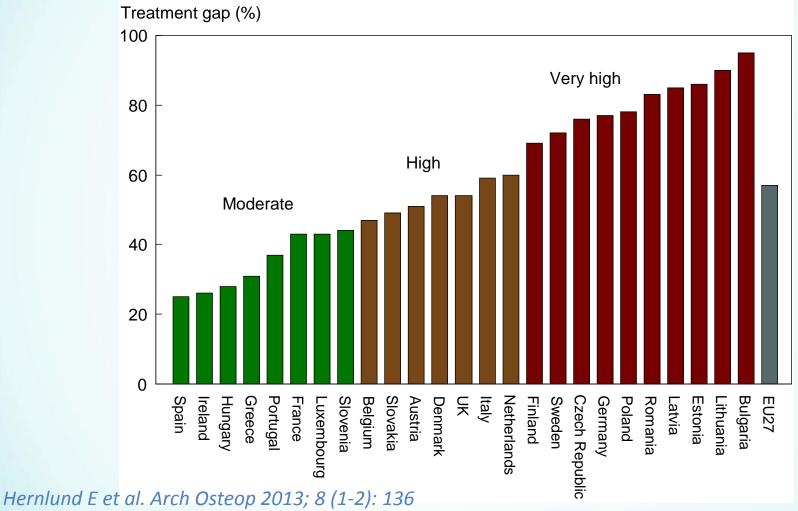
- EU: estimated costs of 32 billion EUR per year
- USA: costs of 20 billion USD per year







Proportion of women at high risk that are untreated (treatment gap) in 2010 ranked by country and score

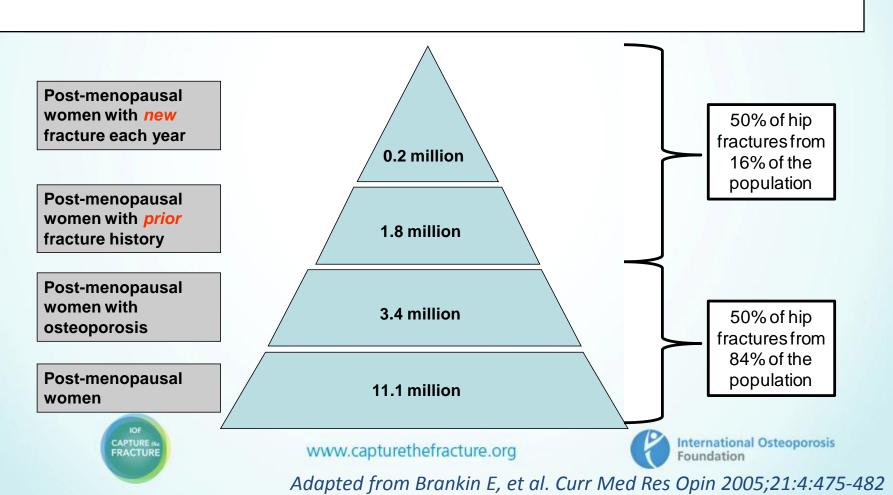






Effectiveness of secondary fracture prevention

Amongst post-menopausal women, the majority of the population have <u>not</u> suffered fragility fractures. Case-finding strategies prioritising assessment of women with prior fracture could identify 50% of potential hip fracture cases from 16% of the population



More than 80% of patients receive inadequate care after their fragility fracture







Closing the care gap: Fracture Liaison Service (FLS)

FLS models have been shown to be effective and cost-saving

Role of an FLS:

- ✓ Identify Fx patients
- ✓ Investigate OP risk factors
- ✓ Initiate treatment and fall prevention
- ✓ Monitor for adherence & re-fracture







Capture the Fracture®



A global programme for the prevention of secondary fractures by facilitating the implementation of Fracture Liaison Services (FLS)

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Implementation of FLS

Political Prioritization

Get Funded Get Started

Improve and sustainable





Key Aims

- Be the global voice for secondary fracture prevention
- Drive national/international policy and prioritization of secondary fracture prevention
- Ensure quality in secondary fracture prevention
- Provide support for FLS implementation, getting started and improving





Objectives of Capture the Fracture®

Set the standards

- Sets guidelines from the Best Practice Framework (BPF)
- Showcases FLS on the Map of Best Practice
- Recognizes Best Practice

Facilitate change

- Helps FLS get a start with the Mentorship programme
- Provides free implementation guides & toolkits
- Offers webinars on FLS implementation

Raise awareness

- Disseminates free resources
- Communicates to communities and health authorities worldwide
- Gathers support from influential coalition of Partners





13 internationally endorsed standards to guide FLS

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	Bronze	Silver	Gold
1.Patient Identification	Patients ID'd, not tracked	Patients ID'd, are tracked	Patients ID'd, tracked & Independent review

Standard	Bronze	Silver	Gold
9.Medication Initiation	50% of patients initiated	70% of patients initiated	90% of patients initiated

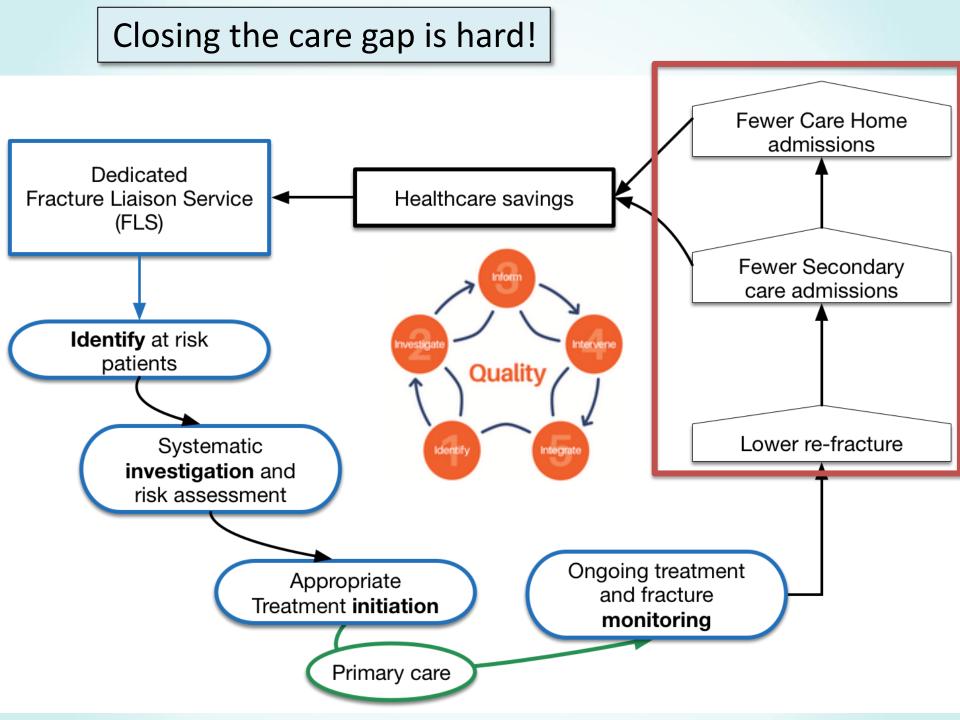




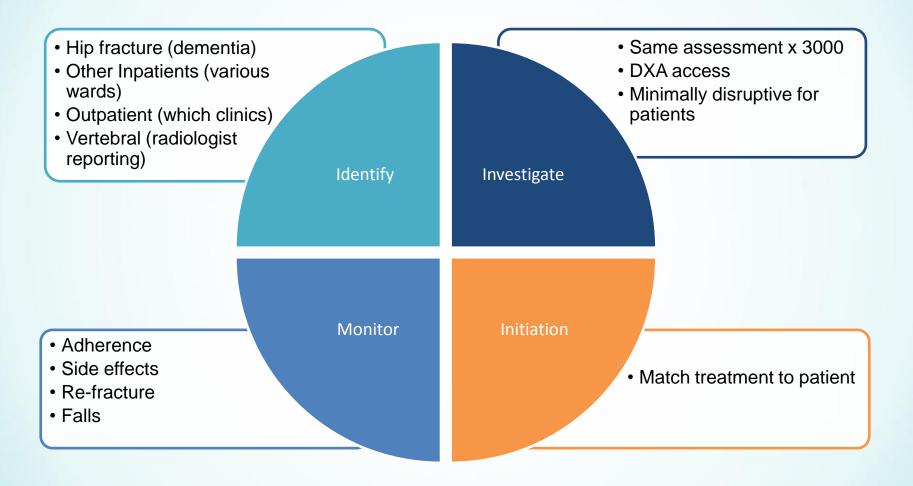
Is every FLS automatically effective?







4 Key Challenges of the Care Gap







FLS Implementation: Putting into Practice

Toolkit:

Guide healthcare professionals, health administrators and policymakers to implement a successful FLS







WHY HAVE A TOOLKIT FOR FRACTURE LIAISON SERVICES?

The International Osteoporosis Foundation (IOF) has developed this toolkit to facilitate the implementation of Fracture Liaison Services (FLS). Used in conjunction with resources from the IOF Capture the Fracture® initiative (www.capturethefracture.org), the toolkit gives those wanting to establish an FLS the case for, and the resources to, enable FLS expansion.

WHAT'S IN THIS TOOLKIT

The following tools are to support clinicians, health administrators and policymakers in the implementation of effective FLS based on successful experiences from established high performing FLS.

1. Understanding the need for FLS

A guide to understanding the size of the problem and why FLS is the solution to secondary fracture prevention.

2. FLS implementation guide

A step-by-step 'how to' guide to design and implement an FLS in hospitals and health systems throughout the world.

3. FLS business planning process guide

A tool intended to support clinicians and health administrators in the FLS business planning process, including a generic FLS business plan template.

4. Multi-sector FLS coalition guide

A tool intended for national osteoporosis societies and national healthcare professional organizations to establish an effective national coalition to drive widespread adoption of FLS in your country.

HOW TO USE THIS TOOLKIT

Use Tools 1 - 4 for implementing an FLS.

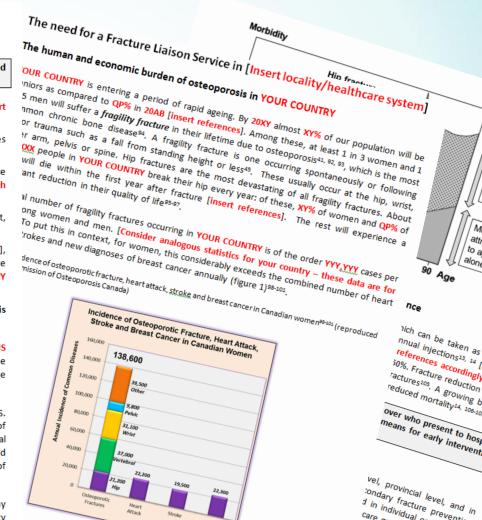
This document contains resources and links of case studies and success stories that can be used to model your FLS.

IOF Generic FLS business plan template

Executive Summary

Fracture Liaison Services improve quality of care and save costs by reducing unscheduled emergency admissions for hip fractures and the incidence of other fragility fractures

- XXX patients from [Insert locality/healthcare system] presented with a hip fracture to [Insert hospital(s)/facility] in year 20ZZ incurring an annual cost of \$(Y)Y,YYY,YYY
- Half of hip fracture patients suffer a fracture of the hip, wrist, humerus or other skeletal sites prior to breaking their hip1-4
- Approved osteoporosis treatments have the potential to halve secondary hip fracture incidence if initiated when patients present with their first fragility fracture⁵⁻¹⁴ [author to check which treatments are available in your country and amend references accordingly]
- National guidance in YOUR COUNTRY calls for routine assessment and osteoporosis treatment, where appropriate, for patients that have suffered fragility fractures [insert references]
- Numerous surveys conducted in YOUR COUNTRY at the national level [insert references]. state/provincial level [insert references] and in individual organisations [insert references] have documented a significant and persistent post-fracture osteoporosis care gap in YOUR COUNTRY which has been reported throughout the world15-38:
 - XY% of fragility fracture patients in YOUR COUNTRY do not receive osteoporosis assessment and/or treatment after their fracture
- Fracture Liaison Service (FLS) programs are endorsed by THE NATIONAL OSTEOPOROSIS SOCIETY OF YOUR COUNTRY [insert references] as the optimal model of care to eliminate the post-fracture osteoporosis care gap by ensuring that all fragility fracture sufferers receive the secondary preventive care they need
- FLS have also been recognised by the International Osteoporosis Foundation^{26, 27, 39, 40}, the U.S. Surgeon General⁴¹, the American Orthopaedic Association^{42, 43}, the American Academy of Orthopaedic Surgeons⁴⁴, the American Society for Bone and Mineral Research⁴⁵, the National Osteoporosis Foundation and the National Bone Health Alliance⁴⁶ in the United States, and analogous groups throughout the world⁴⁷⁻⁵⁶, as the best model to reduce the incidence of painful, debilitating and costly secondary fractures
- Successful FLS programs have been established in YOUR COUNTRY [insert references] and many other countries^{42, 43, 57-91} which have substantially reduced the incidence of hip and other fragility fractures and significantly reduced associated costs
- [Insert name of hospital(s)/facility] does not have a FLS program as of [MM-DD-YYYY]
- Implementation of a FLS program at [Insert name of hospital(s)/facility] could prevent XYZ hip



tients warn us they are coming: Fracture begets fracture

condary fracture prevention d in individual organizations

care gap. A significant body

understand why the post-

Put simply, there is a orthopaedic services, and

sting and/or osteoporosis

GET INVOLVED IN THE CAPTURE THE FRACTURE ® PROGRAMME





Running an FLS? Join the Capture the Fracture® programme

Why join?

- Showcase your achievements
- Learn from best practice to improve your service
- Get gold, silver or bronze recognition
- Be part of a global movement for prevention

Who can participate?

- Coordinator-based 'systems' of care
- All type of facilities
- At any stage in development
- Any size world wide









How to join the Capture the Fracture® programme

Step 1

FLS submits online questionnaire

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











Submit online at www.capturethefracture.org





Step 1: FLS submits online questionnaire



BEST PRACTICE FRAMEWORK 調査票

はじめに

Capture the Fracture*は、各施設で行われている骨折リエゾンサービス(Fracture Liaison Services, FLS)を、FLS成功例として表彰するCapture the Fracture* Best Practice認定へご招待いたします。

国際的なキャンペーンとして、Capture the Fracture"はFLSを世界的に奨励することで二次骨折予防を目指します。Best Practice Frameworkは、スウェーデンのウリスティナ・アケソン教授が議長を務める運営委員会が開発いたしました。Best Practice Framework は、既存のFLSの成果を確認し、各々のFLSの実施にあたってのシステム発展を促すことを目的としています。

申請のしかた

あなたのFLSを承認するために、以下の調査票に記入して、件名に病院名と日付を入れて(件名は英語で記入してください)、capturethefracture@iofbonehealth.org ヘメールでお送りください。

Capture the Fracture は以下のサイトの双方向性に情報を共有できる地図上に各FLS施設を表示します(www.capturethefracture.org/map-of-best-practice.)。

調査票を記入するには、FLSへすでにアクセス可能なデータのレベルに応じて、約20~60分を要します。

備考

FLSコーディネーターという言葉は、FLSで対象とする患者のケアを統括する医療専門家と定義されます。

Capture the Fracture* Best Practice Frameworkはwww.capturethefracture.org/best-practice-frameworkで利用することができ、この質問票と連動して使用されます。

セクションA「病院について」に関して:もしあなたが複数の病院ネットワーク(単独の病院ではなく)の一部としてあなたのFLSを登録する場合には、この記入欄の最後に病院ネットワークについて簡単に記載してください。

ご参加ありがとうございます!







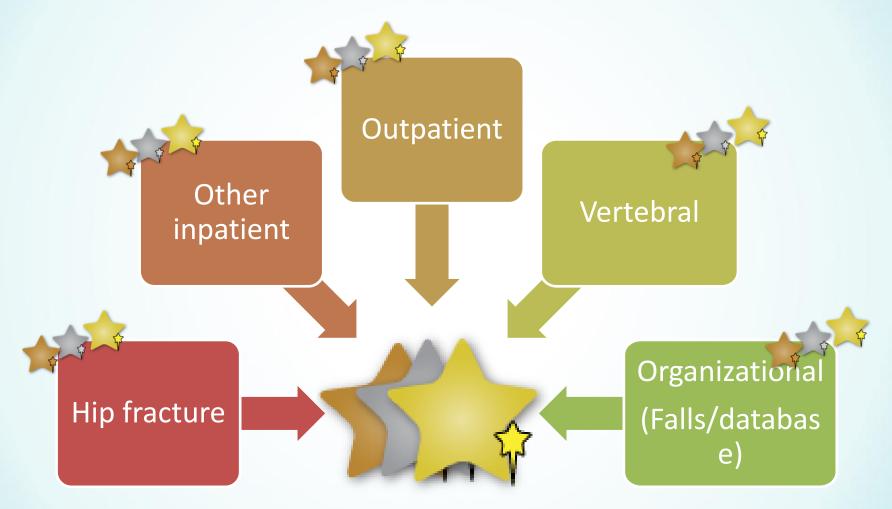
Step 2: FLS marked in green on the map while being reviewed







SCORING: 5 domains







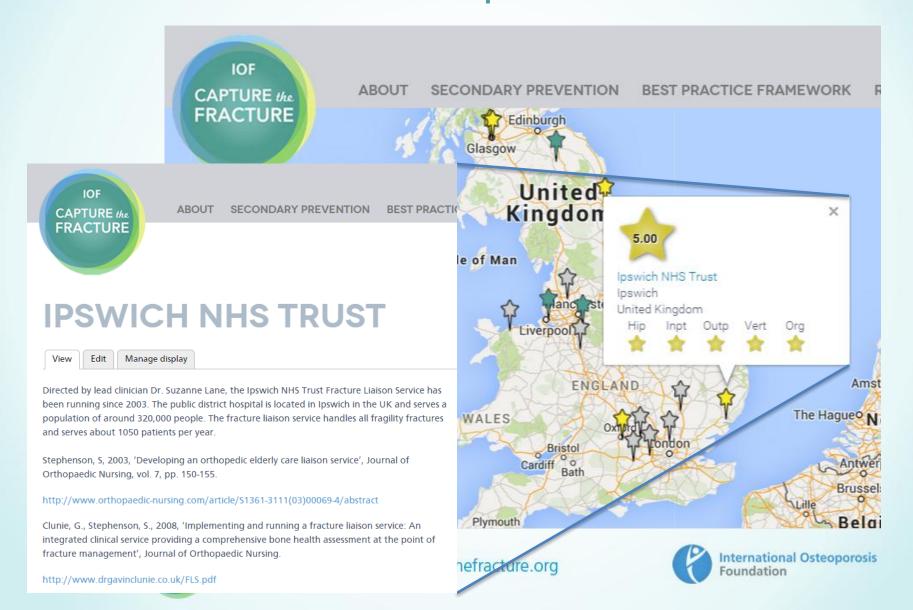
Scoring: Patient perspective 3.75 John Radcliffe Hospital Oxford United Kingdom Hip Outp Inpt Org CAPTURE THE FRACTURE

Will I receive Effective Secondary Prevention after my fragility fracture?





Step 3: FLS is scored and recognized on the map



RESULTS





128 FLS registered on the map

77 Complete 14



33



30



51 In review/waiting for more data





- ✓ Algeria
- ✓ Australia
- ✓ Belgium
- ✓ Brazil
- ✓ Bulgaria
- ✓ Canada
- ✓ China
- ✓ Czech Republic
- √ Finland
- ✓ France
- ✓ Greece
- ✓ India
- ✓ Ireland
- ✓ Italy
- ✓ Netherlands
- ✓ New Zealand
- ✓ Portugal
- √ Singapore
- ✓ Spain
- ✓ Sweden
- ✓ Switzerland
- ✓ Taiwan
- ✓ Trinidad & Tobago
- ✓ UK
- ✓ USA





FLS characteristics

- Range of patient population: from 100,000 to 1.3 million
- Mix of private & publicly funded hospitals
- Range of fracture patients per year: from 181 to 6200



Effective secondary fracture prevention: implementation of a global benchmarking of clinical quality using the IOF Capture the Fracture® Best Practice Framework tool. Javaid et al., 2015, Osteoporosis International







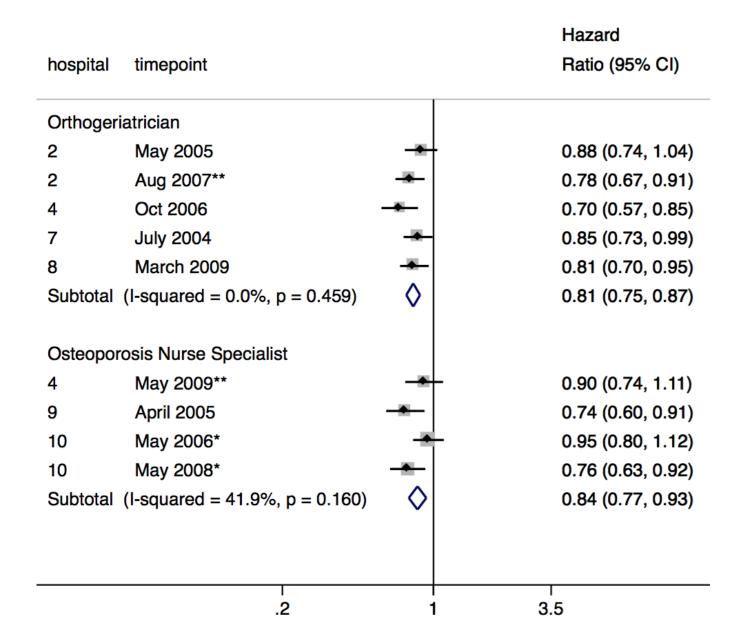


CLINICAL EFFECTIVENESS OF ORTHOGERIATRIC AND FRACTURE LIAISON SERVICE MODELS OF CARE

Samuel Hawley

M Kassim Javaid, Daniel Prieto-Alhambra, Janet Lippett, Sally Sheard, Nigel K Arden, Cyrus Cooper, Andrew Judge, The REFReSH study group

Results: 1-year Mortality



5 years Oxford economic model

Population of 620,000

	Hip	Other inpatient	Outpatient	Vertebral	Total
Annual cases	622	695	2,414	555	4286
Proportion seen by FLS	95%	95%	85%	10%	
Number of fractures prevented after 5 years of FLS	288	152	152	97	629
Hospital savings at 5 years	£2.928,960	£172,064	£52,960	£314,862	£3,469,846
+ primary care/ social care/ community costs	£4,737,024	£210,064	£53,960	£336,784	£5,337,832

The Fracture Risk Assessment Program Malmö

Osteoporosis & Prevention Center within the Department of Orthopedics

- Provide service to primary care
 - Osteoporosis and fracture risk assessment performed
 - Recommendations made
 - When considered meaningful
 - Referral for DXA
 - DXA performed
 - Bone density measurement interpreted
 - Recommendations for intervention based on risk factors and DXA
 - When no further evaluation considered meaningful
 - Primary prevention and recommendations

NURSE COORDINATOR



The Fracture Risk Assessment Program in Lund

Alternative model

- Fracture patients below age 75
- Identified at emergency room rooster
- Risk assessment
- Referred for DXA
- Letter to patient with DXA result and information letter to primary physician
 - Depend on the patients own activity and willingness
 - Depend on widely informed primary care doctors

The Fracture Risk Assessment Program in Lund

404

Acta Orthopaedica 2008; 79 (3): 404-409

3-year follow-up of 215 fracture patients from a prospective and consecutive osteoporosis screening program

Fracture patients care!

Jörgen Åstrand¹, Karl-Göran Thorngren¹, Magnus Tägil¹, and Kristina Åkesson²

Department of Orthopedics, Lund University, ¹Lund University Hospital and ²Malmo University Hospital, Sweden

76/87 with osteoporosis saw their doctor and 2/3 received anti-osteoporotic treatment.

None of those with normal bone density received treatment.

36

International Osteoporosis

CTF TOOLS





Slide kits, Toolkit

Slide kits:

Help educate and promote the need for secondary fracture prevention and effective FLS:

Toolkit:

Guide healthcare professionals, health administrators and policymakers to implement a successful FLS

SLIDE KITS & REPORTS

SLIDE KITS

Capture the Fracture Educational Slide Kit Set

This three-part educational slide set may be used freely by healthcare professionals to help Services and Capture the Fracture at their local hospitals or among healthcare authorities.

- Part 1: The need for secondary fracture prevention (15 slides)
- Part 2: About Capture the Fracture (37 slides)
- Part 3: The Best Practice Framework for Fracture Liaison Services (25 slides)







Best Practice Framework Translations

To facilitate endorsement of our best practice worldwide, the BPF document has been translated into 9 different languages (Portuguese on the way) including 5 out of the 10 most spoken languages in the world.

DOWNLOAD THE BPF

Download the Capture the Fracture Best Practice Framework in the following languages:

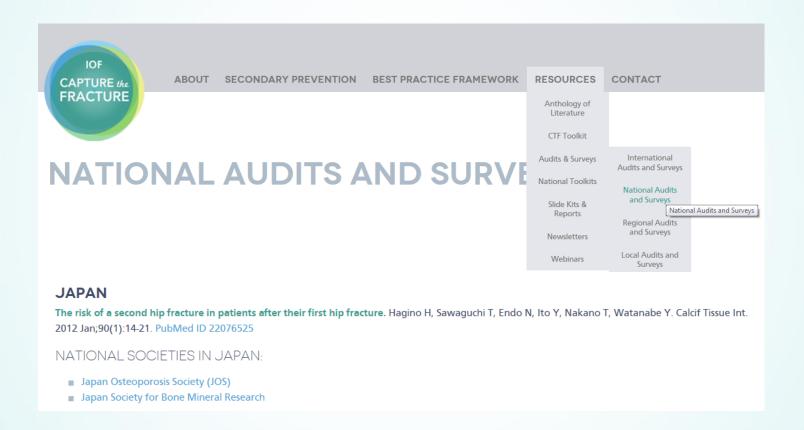
- Chinese (traditional)
- Chinese (simplified)
- English
- French
- German
- Italian
- Japanese
- Russian
- Spanish







Other resources







Conclusions

- A single tool (BPF) can be used to benchmark services internationally
- Provide information on the implementation and development of FLS at global, national and regional levels
- Allow identification of successful sustainable service models



