

Resource 11

Secondary Fracture Prevention Program online resources

This resource provides links to online resources and publications which individuals developing SFP Programs may find useful.

International Initiatives

International Osteoporosis Foundation Capture the Fracture® Programme

Capture the Fracture® website: <http://www.capturethefracture.org/>

IOF Best Practice Framework: <http://www.capturethefracture.org/best-practice-framework>

IOF Map of Best Practice: <http://www.capturethefracture.org/map-of-best-practice>

Capture the Fracture® 2012 World Osteoporosis Day Report:

<http://www.iofbonehealth.org/capture-fracture-report-2012>

IOF Publications on Capture the Fracture® Programme and the Best Practice Framework:

Capture the Fracture: a Best Practice Framework and global campaign to break the fragility fracture cycle. *Osteoporos Int.* 2013 Aug;24(8):2135-52. Akesson K, Marsh D, Mitchell PJ, McLellan AR, Stenmark J, Pierroz DD, Kyer C, Cooper C; IOF Fracture Working Group. [PubMed ID 23589162](#)

Effective secondary fracture prevention: implementation of a global benchmarking of clinical quality using the IOF Capture the Fracture® Best Practice Framework tool. *Osteoporos Int.* 2015 Jun 13. [Epub ahead of print]. Javaid MK, Kyer C, Mitchell PJ, Chana J, Moss C, Edwards MH, McLellan AR, Stenmark J, Pierroz DD, Schneider MC, Kanis JA, Akesson K, Cooper C; IOF Fracture Working Group; EXCO. [PubMed ID 26070301](#)

IOF Position Paper on coordinator-based systems:

Coordinator-based systems for secondary prevention in fragility fracture patients. *Osteoporos Int.* 2011 Jul;22(7):2051-65. Marsh D, Akesson K, Beaton DE, Bogoch ER, Boonen S, Brandi ML, McLellan AR, Mitchell PJ, Sale JE, Wahl DA; IOF CSA Fracture Working Group. [PubMed ID 21607807](#)

American Society for Bone and Mineral Research Secondary Prevention Task Force

ASBMR International Task Force Report:

Making the first fracture the last fracture: ASBMR task force report on secondary fracture prevention. *J Bone Miner Res.* 2012 Oct;27(10):2039-46. Eisman JA, Bogoch ER, Dell R, Harrington JT, McKinney RE Jr, McLellan A, Mitchell PJ, Silverman S, Singleton R, Siris E; ASBMR Task Force on Secondary Fracture Prevention. [PubMed ID 22836222](#)

The support information provide a comprehensive suite of resources which are available at <http://onlinelibrary.wiley.com/doi/10.1002/jbmr.1698/supinfo> .

National Initiatives

Canada

In 2013, Osteoporosis Canada launched the *Make the FIRST break the LAST with Fracture Liaison Services* initiative. This initiative provided healthcare professionals, administrators and policymakers with a summary document which made the case for widespread adoption of SFP Programs in all provinces of Canada (aka Fracture Liaison Services [FLS]). A comprehensive suite of accompanying resources provided an array of supporting information and tools to support this objective. Subsequently, Quality Standards for FLS were developed which are currently endorsed by:

- The Canadian Orthopaedic Association
- The Canadian Orthopaedic Nurses Association
- The Canadian Rheumatology Association
- The Canadian Geriatrics Society
- SIGMA Canadian Menopause Society
- The Canadian Falls Prevention Education Collaborative
- Bone and Joint Canada
- International Society for Clinical Densitometry

All the materials are available from <http://www.osteoporosis.ca/fls/>. ANZBMS would like to express sincere thanks to Osteoporosis Canada for development of this initiative which has served as the inspiration for the ANZBMS SFP Program initiative.

New Zealand

In 2012, Osteoporosis New Zealand published *BoneCare 2020: A systematic approach to hip fracture care and prevention for New Zealand*¹. BoneCare 2020 made the case for implementation of a systematic approach to hip fracture care and prevention for New Zealand. Key components of the strategy included establishment of a NZ Hip Fracture Registry, to enable nationwide benchmarking of Australian and New Zealand professional standards of acute hip fracture care, and implementation of SFP Programs (aka Fracture Liaison Services) in all District Health Boards (DHBs) to reliably deliver secondary fracture prevention. As of August 2014²:

- 6 DHBs had some form of SFP Program operating (albeit some at an early stage)
- The combined population of these DHBs was 2,271,708 people
- The 6 DHBs that had an SFP Program accounted for approximately 282,500 people over the age of 65 (44% of the total population over 65 years of age at the time)
- The 6 DHBs continued to implement and monitor their SFP Programs during 2015
- The remaining 14 DHBs were also implementing their SFP Programs during 2015

In December 2014, Osteoporosis New Zealand published a Fracture Liaison Service Resource Pack – which was endorsed by the Health Quality and Safety Commission NZ – to support clinicians and administrators in the DHBs that were yet to implement an SFP Program. Further, the ANZ Hip Fracture Registry was piloted in the Northern Region DHBs in late 2014, and governance structures to support nationwide roll-out were in development with all relevant stakeholders in early 2015.

BoneCare 2020 is available from <http://osteoporosis.org.nz/about-us/our-strategy/>

The Fracture Liaison Service Resource Pack is available from:

<http://osteoporosis.org.nz/resources/health-professionals/fracture-liaison-services/>

Singapore

In 2008, the OPTIMAL (Osteoporosis Patient Targeted and Integrated Management for Active Living) SFP Program was funded by the Singaporean Ministry of Health was implemented in various Singaporean hospitals. OPTIMAL aims to prevent secondary fractures through case finding, physician and case manager follow up, medication subsidy and physiotherapy. Several publications describe the development and implementation of the OPTIMAL program including:

Secondary prevention of osteoporotic fractures--an "OPTIMAL" model of care from Singapore. *Osteoporos Int.* 2013 Nov;24(11):2809-17. Chandran M, Tan MZ, Cheen M, Tan SB, Leong M, Lau TC. [PubMed ID 23615816](#)

Dropping the Ball and Falling Off the Care Wagon. Factors Correlating With Nonadherence to Secondary Fracture Prevention Programs. *J Clin Densitom.* 2015 e-publication Jul 21. Chandran M, Cheen M, Ying H, Lau TC, Tan M. [PubMed ID 26209018](#)

The Netherlands

A broad range of initiatives have contributed to the development of a SFP Program in most Dutch hospitals³. In 2015, 85 specialised SFP nurses were working in 68 non-university hospitals. Several publications describe comparative performance of Dutch SFP Programs, outcomes for particular SFP Programs and adherence with the IOF Best Practice Framework.

Implementation of osteoporosis guidelines: a survey of five large fracture liaison services in the Netherlands. *Osteoporos Int.* 2011 Jul;22(7):2129-35. Huntjens KM, van Geel TA, Blonk MC, Hegeman JH, van der Elst M, Willems P, Geusens PP, Winkens B, Brink P, van Helden SH. [PubMed ID 21052640](#)

Fracture liaison service: impact on subsequent nonvertebral fracture incidence and mortality. *J Bone Joint Surg Am.* 2014 Feb 19;96(4):e29. Huntjens KM, van Geel TA, van den Bergh JP, van Helden S, Willems P, Winkens B, Eisman JA, Geusens PP, Brink PR. [PubMed ID 24553898](#)

Meeting international standards of secondary fracture prevention: a survey on Fracture Liaison Services in the Netherlands. *Osteoporos Int.* 2015 Sep;26(9):2257-63. van den Berg P, Schweitzer DH, van Haard PM, van den Bergh JP, Geusens PP. [PubMed ID 25860976](#)

United Kingdom: National Osteoporosis Society

Since 2009, the National Osteoporosis Society (NOS) in the United Kingdom has led advocacy for universal access to SFP Programs across the UK. The NOS has a comprehensive suite of online resources to support SFP Program implementation at <https://www.nos.org.uk/health-professionals/fracture-liaison-services>.

This includes Clinical Standards for Fracture Liaison Services which are based on the '5IQ' approach: identification, investigation, information, intervention, integration and quality.

United States: National Bone Health Alliance

The National Bone Health Alliance (NBHA) established a secondary fracture prevention initiative in 2011. In 2013, NBHA launched a website – Fracture Prevention CENTRAL – which provides a comprehensive suite of resource relating to implementation of SFP Programs in the United States and is available at <http://www.nbha.org/fpc>.

References

1. Osteoporosis New Zealand. *Bone Care 2020: A systematic approach to hip fracture care and prevention for New Zealand*. Wellington 2012.
2. Mitchell PJ, Cornish J, Milsom S, et al. BoneCare 2020: A systematic approach to hip fracture care and prevention for New Zealand. *3rd Fragility Fracture Network Congress 2014*. Madrid, Spain.; 2014.
3. van den Berg P, Schweitzer DH, van Haard PM, van den Bergh JP, Geusens PP. Meeting international standards of secondary fracture prevention: a survey on Fracture Liaison Services in the Netherlands. *Osteoporos Int*. Sep 2015;26(9):2257-2263.