

Osteoporosis Canada FLS Registry FAQs

1. **What is the Osteoporosis Canada (OC) FLS Registry?**

The OC FLS Registry is an online map profiling FLS programs in operation across Canada which meet OC's [Essential Elements of Fracture Liaison Services](#)

2. **What is the purpose of the OC FLS Registry?**

OC created this much needed resource to help further efforts to support and promote the implementation of effective FLSs in Canada. The OC FLS Registry celebrates and profiles these models, and will also help identify areas lacking access to FLS.

3. **Why should I submit my FLS model to be profiled on the FLS Registry?**

There are many benefits to submitting your FLS model to the OC FLS Registry:

- a) Showcase your FLS program to stakeholders in your community/jurisdiction.
- b) Discover other FLS programs across the country
- c) Help develop a vital tool to assist with OC's efforts to foster the implementation of effective FLSs and improve the quality of programs across Canada

4. **What are OC's Essential Elements of Fracture Liaison Services?**

Most FLS programs will start small and gradually expand over time (e.g. FLS may start as hip fracture only and eventually expand to identify other fracture types). Accordingly a set of criteria was developed by a pan-Canadian group of FLS experts who carefully selected 8 "[essential elements](#)" which represent the minimum processes needed for any FLS, within its own limitations (e.g. hip fracture only FLS), to successfully ensure that the great majority of fracture patients will receive appropriate osteoporosis care. The "essential elements" are similar, but not as comprehensive, as the OC's [Quality Standards for Fracture Liaison Services in Canada](#), which describe what every mature FLS should ultimately aspire to.

5. **What is the difference between an FLS and an Osteoporosis Clinic (or between an FLS and a Family Practice which offers great osteoporosis care for their patients)?**

The main feature distinguishing an FLS from an Osteoporosis Clinic (or a Family Practice providing evidence-based osteoporosis care for their patients) is the fact that the FLS does systematic and pro- active case finding, at the level of the system, with the goal of capturing all of the patients presenting to hospital with a fragility fracture suspicious for osteoporosis. To capture fracture patients at the systemic/hospital level typically requires:

- For hip fracture patients: pro-active case finding directly from the orthopaedic inpatient ward (or from an equivalent administrative database). Such FLSs may also capture a very small proportion of some other fracture types (e.g. the very small proportion of wrist fracture patients who may require admission to hospital).
- For wrist and shoulder fracture patients: pro-active case finding directly from the orthopaedic outpatient clinics (or from an equivalent administrative database). Such FLSs may also capture some of the hip fracture patients who may return for follow-up in the orthopaedic outpatient clinic.

- For spine fractures: These are the most difficult to identify since two-thirds of vertebral fractures do not present to medical attention at the time of their acute fracture. Most vertebral fractures are in fact diagnosed from x-rays that are done for completely unrelated purposes, e.g. a vertebral fracture may be first diagnosed when a patient goes for a chest x-ray to rule out pneumonia. Systemic pro-active case finding of these radiological spine fractures requires screening of all of a Diagnostic Imaging Department's relevant x-ray reports, typically chest x-rays, spine x-rays, CT scans of spine/chest/abdomen and MRIs of spine/chest/abdomen. Because such FLSs are very complex, OC recommends that spine fracture FLS should only be undertaken by experienced combined inpatient/outpatient FLSs who have already demonstrated their effectiveness for non-spine fracture patients.

In summary, the main source of patients for the FLS is from the FLS itself pro-actively finding the fracture patients within areas of the hospital where fracture patients most commonly intersect with the healthcare system.

6. Our FLS has a dedicated coordinator who works 1 day per week pro-actively case finding fracture patients in our hospital's outpatient orthopedic clinic. We have orthopedic clinics at our hospital 4 days per week. Can our model be profiled on the OC FLS Registry?

The OC FLS Registry recognizes hospitals where there is good access to an FLS for fracture patients presenting in a particular setting (e.g. ortho inpatient ward or ortho OPD clinics). Wishing to be inclusive, the OC FLS Registry recognizes hospitals who provide access to FLS for at least 50% of the fracture patients seen in the particular setting.

In the case of your hospital, 75% of the OPD fracture population currently does not have access to an FLS. Therefore, your hospital cannot be profiled on the OC FLS Registry. We would welcome your submission once the FLS coordinator covers at least 2 days per week (50%) of the orthopaedic clinics.

7. We have recently implemented a post-fracture care model which doesn't meet all 8 of the OC FLS Essential Elements. We believe it will prove to be effective. Can our model be profiled on the OC FLS Registry?

Evidence to date strongly supports that FLS models adhering to all 8 of the Essential Elements are very likely to be successful. We review all submitted models to ensure they adhere to those Elements, in which case they will be profiled on the OC FLS Registry.

Post-fracture care models that meet only 7 out of the 8 Essential Elements are very likely to be unsuccessful. They may make no impact at all on the post-fracture care gap, or they may make a very slight dent in it. However, most will still "leave behind" the majority of the fragility fracture population from that setting (ortho inpatient ward and/or ortho outpatient clinics), hence the post-fracture care gap is still very present.

Osteoporosis Canada is very interested in any innovative post-fracture care model that demonstrates a meaningful impact on the post-fracture care gap. The FLS Registry Committee would welcome submissions from such models, but only after they have been operating for at least one year and have data showing effectiveness of their model, as measured by [OC's FLS KPIs](#).

8. **Our hospital corporation has 2 different hospital sites offering orthopaedic services. Each site operates a similar post-fracture care model but do have some differences. Should we be submitting one single application for the hospital corporation or should we be submitting a separate submission for each hospital site?**

A hospital corporation might have two hospital sites offering two very different levels of post-fracture care. For example, site A of a hospital corporation could have a dedicated FLS coordinator and meet all 8 of the FLS Essential Elements, whereas site B of the same corporation could be providing only osteoporosis brochures to their patients. It is obvious that site B does not meet any of the Essential Element for FLS. From the perspective of the FLS Registry, it is important that individual hospital sites with FLS (meeting all 8 of the Essential Elements) be recognized. Therefore, each individual hospital site must submit a separate application form and each site will be reviewed independently.

9. **We have a research grant funded FLS that satisfies all of the 8 “essential elements”. Our research funding will run out in 6 months. Can we be included in the OC FLS Registry?**

The FLS Registry is intended to show sustainable, i.e. longer term/permanent, FLSs across Canada. FLSs dependent on temporary sources of funding may also be included in the OC FLS Registry provided they can demonstrate they have a plan to secure ongoing funding.

10. **What happens to my application after I submit it?**

Application forms will be received at FLSRegistry@osteoporosis.ca. Application forms will be de-identified upon receipt to ensure effective blinding of the OC FLS Registry Committee reviewers.

The timeline from submission to completion of the assessment is dependent on the completeness of the application and the availability of the OC FLS Registry Committee reviewers. Please ensure your application form is completed in full and all requested details are provided. Any missing information will delay your application's review.

All applicants will be notified of the outcome of the review process. Successful applicants will be asked to provide consent to the standard profile of their FLS model to appear on the FLS Registry before it is posted on the online map.

1. Sale JE, Beaton D, Posen J, Elliot-Gibson V, Bogoch E. Systematic review on interventions to improve osteoporosis investigation and treatment in fragility fracture patients. *Osteoporos Int.* 2011;22(7):2067-2082.
2. Ganda K, Puech M, Chen JS, et al. Models of care for the secondary prevention of osteoporotic fractures: a systematic review and meta-analysis. *Osteoporos Int.* 2013;24(2):393-406.