NARROWING THE FRAGILITY FRACTURE CARE GAP

Implementing a Sustainable Post-Fracture Care (PFC) Program to Help Improve Osteoporosis Management



Osteoporosis is a chronic disease, and breaking a bone due to osteoporosis can be a life-altering event.^{1,2} The cost of osteoporosis-related fractures can be just as significant to health systems as other chronic diseases.³



Health systems that assess, stratify, and actively manage high-risk bone patients can potentially reduce fractures and help improve health and quality outcomes⁹⁻¹¹

*Nationwide Inpatient Sample (NIS) was used to determine number of hospitalizations. These hospitals included specialty centers, public hospitals, and academic medical centers. Study was conducted between 2000 and 2011 and included facility-related hospital costs (defined as an admission to a short-term acute-care facility). Emergency room-only visits and same-day surgery-center visits are not included.³

[†]Cost-to-charge ratios provided by the NIS were used to estimate actual inpatient costs. These are commonly used to convert charges from individual hospitalizations to a cost of care. Cost-to-charge ratios were obtained from hospital accounting reports collected by CMS. The Consumer Price Index produced by the US Bureau of Labor Statistics was used to inflate costs to 2011.³

[‡]Osteoporosis-related fractures included hip, forearm, spine, pelvis, distal femur (including shaft), wrist, and humerus.³

[§]Data represent a population-based study of 4,140 postmenopausal women aged 50-80 years.⁶

- **Data based on a retrospective claim-based study, which assessed 1-year medical costs associated with second fracture(s) for patients over 50 years old with an initial closed hip, clinical vertebral, or nonhip nonvertebral fracture using 2002-2008 MarketScan[®] Commercial Claims and Encounters and Medicare Supplemental and Coordination of Benefit databases.⁷
- ⁺⁺Survey conducted by Group Health Cooperative that provides comprehensive healthcare to ~600,000 individuals in Washington state. Data based on women aged 55 and older who experienced an osteoporosis-related fracture from January 1, 2013, to March 30, 2014.⁸

What Is a PFC program?

PFC programs, such as fraction liaison services (FLS), systematically identify, diagnose, treat, and manage patients with osteoporosis.^{12,13} They:

Designed to effectively IDENTIFY, INVESTIGATE, and INTERVENE with appropriate treatment for patients who are at high risk for secondary fractures because of compromised bone health⁹



Help improve health outcomes by reducing the patient risk of future fractures, which can help reduce costs to the healthcare system^{9,12,13}

Establish processes and use guidelines for patient screening and diagnosing⁹



A PFC program can help ensure consistent care delivery for fragility fractures across sites of care while improving health outcomes, reducing system costs, aligning with certain key performance indicators, and guiding quality improvement^{9,12,13,14}



A range of stakeholders can develop and implement a PFC program.¹⁵ Identify a champion to develop, implement, and provide clinical leadership to the program.¹⁵ They are typically orthopedists, rheumatologists, endocrinologists, internists, or physiatrists.¹² They engage with local administrators to seek funding and support.¹⁵

Systemic acceptance and buy-in from other interested parties is important, including¹⁵:



Technology Tools Can Help Identify Patients At Risk for Fractures

Health systems can leverage existing technology tools, including their electronic health record (EHR) system, to identify and manage at-risk patients.^{9,17} The integration of artificial intelligence may also help identify patients at risk for fractures.^{18,19}

Telehealth has expanded the opportunities for patient engagement and follow-up.²⁰ CMS has expanded access to Medicare telehealth services through a waiver that, on a temporary and emergency basis, covers office, hospital, and other visits furnished for new and established patients.^{20,21}

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Health systems can actively manage patients with osteoporosis at high risk for secondary fractures by implementing PFC programs tailored to their populations, based on their capabilities.^{9,13} Consider implementing a PFC program in your healthcare system

Examples of PFC programs

PFC programs can be a part of different care sites, including academic institutions, integrated health systems, and other sites of care. Organizations of various types, sizes, and locations have implemented PFC programs.^{9,13}



PFC programs can help health systems improve identification of patients at risk for osteoporosis-related fracture to improve care management^{9,13}

FLS information in each of these institutions can be found in their websites.



Resources and Key Links

National Osteoporosis Foundation BoneSource® Professional Program https://www.bonesource.org/

International Osteoporosis Foundation Capture the Fracture® Campaign http://www.capturethefracture.org/ American Orthopaedic Association Own the Bone® Program http://www.ownthebone.org/

Project ECHO https://hsc.unm.edu/echo/

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THE NEED FOR PFC PROGRAMS: KEY TAKEAWAYS

- Osteoporosis is a chronic disease, and breaking a bone due to osteoporosis can be a life-altering event^{1,2}
- Although postmenopausal women are 5 times more likely to experience a subsequent fracture in the first year after initial fracture, 84% of these women were not treated for the underlying disease of osteoporosis within 6 months following a fracture^{6,8}
- A PFC program can help ensure consistent care delivery for fragility fractures across sites of care while improving health outcomes, and reducing system costs, and guiding quality improvement^{9,12,13}
- The 7 elements can be used to develop a high-functioning PFC program^{9,12,16}
- Organizations of various sizes and types can implement PFC programs^{22,23}

Amgen and UCB can provide additional educational materials. Please contact your account manager for more resources

References: 1. Cosman F, de Beur SJ, LeBoff MS, et al. Clinician's Guide to Prevention and Treatment of Osteoporos. *Int*. 2014;25:3259-2381. 2. Inacio MCS,
Weiss J, Miric A, et al. A Community-Based Hip Fracture Registry: Population, Methods, and Outcomes. *Perm J*. 2015;19:29-36. 3. Singer AS, Exuzides A, Spangler L, et al. Burden of illness for osteoporotic fractures compared with other serious diseases among postmenopausal women in the United States. *Mayo Clin Proc.* 2015;90:53-62. 4. U.S. Department of Health and Human Services. Bone Health and Osteoporosis: A Report of the Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Rockville, MD: U.S. Department of Health and Human Services, Office of the Surgeon General. Surgeon General. Surgeon Surgeo

