Improving osteoporosis care in high-risk home health patients through a high-intensity intervention.

PURPOSE: We developed and tested a multi-modal intervention, delivered in the home health care setting, aimed at increasing osteoporosis treatment rates to prevent fractures.

MATERIAL AND METHODS: The intervention focused on home health nurses. Key components included: nursing education; development of a nursing care plan; patient teaching materials and creation of physician materials. Nursing education consisted of a lecture covering osteoporosis, fracture risks and prevention, and the effectiveness of anti-osteoporosis treatment options. Patients received education materials concerning osteoporosis and anti-osteoporosis medications. A pocket-sized treatment algorithm card and standardized order sets were prepared for physicians. Focus groups of physicians and nurses were conducted to obtain feedback on the materials and methods to facilitate effective nurse-physician communication. Successful application required nurses to identify patients with a fracture history, initiate the care plan, prompt physicians on risk status, and provide patient education. The intervention was piloted in one field office.

RESULTS: In the year prior to the intervention, home health patients (n=92) with a fracture history were identified in the pilot field office and only 20 (22%) received osteoporosis prescription therapy. In the three months following the
intervention, 21 newly enrolled patients were identified and 9 (43%) had received osteoporosis prescription medications.

**CONCLUSIONS:** Home health care provides a venue where patients and physicians can be informed by nurses about osteoporosis and fracture risks and, consequently, initiate appropriate therapy. This multi-modal intervention is easily transportable to other home health agencies and adaptable to other medical conditions and settings.

DOI: 10.1016/j.cct.2011.09.020

Alternate Journal: Contemp Clin Trials

PubMed ID: 22005175

PubMed Central ID: PMC4045407

Grant List:
- K23 AR053351 / AR / NIAMS NIH HHS / United States
- U18-HS016956 / HS / AHRQ HHS / United States