Impact of osteoporotic fractures on quality of life – Design of a mapping study of QUALIOST to EQ-5D

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HYPOTHESIS:
Mapping from QUALIOST scores to EQ-5D-5L derived utilities will enable estimation of preference-based HRQoL utilities for patients with osteoporotic fractures.

OBJECTIVES:
The QUALIOST (quality in life questionnaire in osteoporosis) is one of the most commonly used osteoporosis-specific health-related quality of life (HRQoL) questionnaires and it is often used in clinical studies to document the longitudinal impact of osteoporosis and related fractures. It is unknown whether the QUALIOST is better at estimating HRQoL for osteoporotic fracture patients compared to the commonly used EQ-5D questionnaire. Preference scores have not yet been developed for the QUALIOST and, thus, cost-utility analyses are difficult to perform. The purpose of the present paper is to describe the first steps of a planned/future study on mapping from the QUALIOST to the EQ-5D questionnaire.

METHODS:
A questionnaire, containing both EQ-5D-5L and QUALIOST, is distributed to patients in an orthopaedic outpatient clinic in Denmark and the aim is to include 150 patients.

Patients above 50 years of age and with a recent fracture (less than 2 weeks old) are invited to participate in the study. The patients are asked to complete the questionnaire at initial contact with the out-patient clinic and at four follow-up time points; one week, and one, three, and twelve months post-fracture.

The last inclusion date will be December 31st 2014.

RESULTS:
The hypothesis is that the QUALIOST will provide a better estimate of the impact of osteoporosis-related fractures on HRQoL as it contains disease-relevant aspects, which may not be sufficiently covered in the generic EQ-5D-5L questionnaire. We will develop a mapping algorithm to predict EQ-5D derived utilities for Danish fracture patients from the QUALIOST, which can be used in future studies, where utilities then may be estimated from QUALIOST results.