Reviewer’s report

**Title:** Fixation using Alternative Implants for the Treatment of Hip Fractures (FAITH-2): Design and Rationale for a Pilot Multi-Centre 2x2 Factorial Randomized Controlled Trial in Young Femoral Neck Fracture Patients

**Version:** 0  **Date:** 10 Feb 2019

**Reviewer:** Moleen Zunza

**Reviewer's report:**

A well written protocol for a pilot study to determine the feasibility of a definitive 2x2 factorial design randomised controlled trial comparing two alternative surgical techniques (multiple cancellous screws versus sliding hip screw) and vitamin D supplementation versus placebo for the treatment of femoral neck fractures in young adult patients.

**Recruitment and Screening**

During screening, you consider the following level of classification: eligible but refused study participation.

**Sample size consideration**

On which statistical test was the sample size estimation for the definitive trial based on?

Change "Analysis of Feasibly…." To Analysis of Feasibility….

What is the expected composite outcome event rate in the SHS treatment arm?

**Analysis of clinical outcome**

If the interaction is not significant why perform two separate chi-squared tests instead of two separate Cox regression models as in the first analysis?

**Level of interest**

Please indicate how interesting you found the manuscript:

An article of importance in its field
Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

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No