Reviewer's report

Title: Incidence and direct hospitalization costs of hip fractures in Vilnius, capital of Lithuania, in 2010

Version: 1 Date: 2 April 2012

Reviewer: Tiffany Gill

Reviewer's report:

Thank you for the opportunity to review this paper. My comments are as follows:

1. The question is clearly defined by the authors.
2. The methods are appropriate and well described.
3. The data appear to be sound.
4. The manuscript adheres to the relevant standards for reporting and data deposition.
5. The discussion and conclusion are well balanced and adequately supported.
6. The limitations are stated.
7. The title and abstract accurately convey what has been found.
8. The writing is generally acceptable.

Tables are also clear and appropriate.

Major compulsory revisions:
None

Minor essential revisions:

Abstract: Line 1, "Few epidemiological data on hip fractures was..." should be "Few epidemiological data on hip fractures were..."
Line 3, "Data were collected from medical charts..." should be "Data were collected from the medical charts..."
Line 4, "...due to new low-energy trauma hip..." should be "...due to new a low-energy trauma hip..."

Background:
Page 3, line 2, "...major impact on the health..." should be "...major impact on health..."
Page 3, line 2, I think there should be a reference included after the words "...systematic review..."
Page 3, line 5 and 6, this sentence does not read well "It has been estimated that with the rapidly aging population, hip fracture sufferers were estimated at 56
million worldwide,..."

Page 3, line 6, "...female-to-male ratio of 1.6.." is the ratio 1.6:1?

Methods:

Page 4, Population data and incidence section, line 3, "Population data was obtained..." should be "Population data were obtained..."

Results:

Page 7, line 2, "...hospital stay differ for treatment types." should be "...hospital stay differ according to treatment type."

Page 7, line 3, "...patients survived were discharged..." should be "...patients who survived were discharged..."

Page 8, line 1, "...stay in other treatment..." should be "...stay for other treatment..."

Page 8, line 2-4, "It was found that in cases of arthroplasty the cost of acute hospital stay comprised 70%, in internal fixation by screw 52%, in cases of internal fixation by plate 49%, and in non-surgical treatment 43% of overall expenditures for respective type of treatment." This sentence is not clear. Should it be: "It was found that in cases of arthroplasty, the cost of acute hospital stay comprised 70%, for internal fixation by screw acute hospital stay was 52%, in cases of internal fixation by plate, 49% and in non-surgical treatment it was 43% of overall expenditure for each type of treatment respectively.

Discussion: page 9, line 5, "authors [4, 15, 32]" references do not appear to be numbered in order.

Page 9, second last line, "...incidence in men.." should be "...incidence of hip fracture in men..." in order to make the sentence clearer.

Page 12, second last line "...restricted to hospital cost..." should be "...restricted to hospital costs..."

Page 13, first line, "...cost of acute..." should be "...costs of acute..."

Page 13, fourth last line, "Also, the data of this study has made possible..." should be "Also, the data of this study have made it possible..

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**
I declare that I have no competing interests