Reviewer's report

Title: Outcomes of Total Hip Arthroplasty in Patients with Primary Immune Thrombocytopenia

Version: 2 Date: 25 February 2015

Reviewer: Jeffrey J Cherian

Reviewer's report:

The study is a two to one comparison of outcomes of total hip are the classy in patients with primary immune thrombocytopenia. Overall this is a very well-written manuscript however there are certain concerns that I have.

1.) There is a small number of patients over a long period of enrollment this limited number patients may make it difficult to accurately assess what the outcomes are of this patient population.

2.) It is questionable whether you can assess outcomes over a ten-year period with multiple implants as over this time. There's been vast amounts of improvements and implant design that have lead to improved outcomes since the initial period of the study.

Minor

3.) I would suggest removing lines 33 to 35.

Major

4.) The authors list to patient that were diagnosed at the time of preoperative labs. Should these patients really be considered in this study as they have never had symptoms or receive treatments this is solely on the laboratory diagnoses and has never experienced convocations from this disease before.

5.) Was there any differences seen and preoperative lab values i.e. hemoglobin platelet count etc.

6.) The authors state that there is no difference and close suction drains however they failed to mention if all the patients had drains or if just some of the patient had drains.

7.) How did you estimate blood loss as EBL is often in accurate.

8.) Authors say that there's no difference and postoperative complications however given the rate of these patients increased bleeding was there any differences and postoperative anticoagulation between the cohorts. In addition numerous other studies in the discussion say that this patient population has increased post operative complications including pneumonia sepsis etc. however the authors fail to address whether these are increased. If possible I would like to see the authors to see if there was increased readmission rates for the
thrombocytopenia cohort.

9.) Did any of the patients intraoperatively undergo additional blood management strategies i.e. TXA, fibrin sealant, etc.

10.) Mention of various blood management strategies in the discussion to reduce the high rate of transfusion in these patients may be worthy for the reader to planned preoperatively if they encounter this patient population.

11.) The longest follow-up of these patients was 13 years, was transfusion indications standard for all the time. Or at what time was the current protocol of 8 grams per deciliter initiated.

**Level of interest:** An article of limited interest

**Quality of written English:** Acceptable

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

I declare that I have no competing interests