Reviewer's report

Title: Mid-term Results in Patients Having Tricuspidization of the Quadricuspid Aortic Valve

Version: 1 Date: 11 October 2013

Reviewer: YONGIN LUKE KIM

Reviewer's report:

1. Authors should explain the reason why you fixed a sino-tubular junction with fabric rings which were not used in other previously published similar papers. If there are any reasons, it should be supported by published evidences.
2. Any scientific evidence that the bovine pericardium used in AVRS as a leaflet substitute more suitable comparing to gluteraldehyde fixed autologous pericardium should be described.
3. Proper explanation and evidence that bovine pericardium is free from degenerative changes or calcification should be described.
4. You need some corrections as follows (some details);
   Title page: last line, "full list of author" ->" full list of authors",
   Abstract: #6th line, "Sino-tubular"-> "sino-tubular",
   #11th line, "artificial graft" ->"artificial vascular graft",
   #aortic valve area index, you should compare preop vs postop result ( you described only postop result),
   #Consider LV mass index is not reasonable to assess the efficacy of this AVRS. You may omit this because EDLVD and ESLVD are more important in this paper.
   Background: #Quadricuspid aortic valve should be described as "QAV" from the second time description once you noted its abbreviation before.
   Method: #9th line, "artificial graft" ->"artificial vascular graft"
   # at the end, the value which is statistically significant should be described, like p value.
   Results: # you compared preop results of NYHA class, LVEF, LVEDD, LVESD, LVMI, but not of PG and AVIA in your manuscript. You should correct this.
   Additionally, you may omit LVMI results here and at Table 2.
   Discussion:# Again you should describe continuously same
abbreviations ("QAV" instead of "Quadricupid Aortic Valve") in your whole manuscript.

#Use a same term; cardiac ultrasound -> echocardiography (#1st line of Discussion part).

#8~10th line (page 6), you reported one aorta wrapping case, however, you described that you did not have an enlarged ascending aorta. You should explain this and need a revision. Again in this sentence, "artificial graft" should be written as "artificial vascular graft".

#16th line, you should describe not both AVA and AVAI, but AVAI only. You may not describe meaningless values.

#19th line (page 6), omit "The LVMI showed significant regression".

#At the last sentence, consider a revision from "in order to test the durability of repair procedure involving..." -> "in order to assess the durability of repair procedures and materials involving...".

**Level of interest:** An article of outstanding merit and interest in its field

**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.