Specific Comments to Authors: The adequacy of the statistical method used is questionable (Non-parametric tests are more applicable to such a sample). Accordingly, the conclusions of the study may be erroneous. Perhaps the results should be recalculated.

Authors:

Thank you for your analysis of our manuscript. We agreed with your comments on the adequacy of the statistical method. Therefore, we conducted a new analysis using the Mann–Whitney U test. We added the results to the manuscript, highlighted in red, and the conclusions of the manuscript were not affected after this analysis.

Reviewer #2:

Specific Comments to Authors: Well done study Good methodology well described Analysis and results explained wll one comment please describe if uniform contact area was ensured for both implants at insertion and checked at harvesting Please do give details regarding number of osteoblasts/ comparison of osteoblastic activity around both implants specifically if available Kindly include any other paramaters - surface roughness parameters that were compared please include this reference as well Understanding the Role of Surface Modification of Randomized Trabecular Titanium Structures in Bone Tissue Regeneration: An Experimental Study. Canciani E, Ragone V, Biffi CA, Valenza F, D'Ambrosi R, Olimpo M, Cristofalo A, Galliera E, Dellavia C. Medicina (Kaunas). 2022 Feb 18;58(2):315. doi: 10.3390/medicina58020315. PMID: 35208638 Free PMC article

Authors:

Thank you very much for this positive evaluation of our manuscript.

Reviewer #2: Describe if uniform contact area was ensured for both implants at insertion and checked at harvesting.

Authors:

We ensured uniform contact area by using implants of the same size (diameter and height) for all animals and used the same cylindrical bur to make all the defects.

Reviewer #2: Please do give details regarding number of osteoblasts/ comparison of osteoblastic activity around both implants specifically if available

Authors:

Unfortunately, the method of our study involves thick sections (0.5mm) and does not include specific coloring. As a result, we cannot determine the number of osteoblasts. As such, we cannot add this data to the manuscript.

Authors:

Our study aimed to evaluate the osseointegration of the two implants. As such, it was not necessary to compare the surface roughness of the implants because we used materials from two types of acetabular cups that are currently used in clinical practice, as opposed to if we synthesized a new material ourselves.

The suggested reference was included in the manuscript's introduction (#13), highlighted in red.

Authors:
1) Original figures added in PowerPoint file
2) Copyright information added in PowerPoint file
3) We used the RCA and added one reference in our manuscript (#3).