Online Supplementary Material to:

Early acetabular cartilage wear following hemiarthroplasty: An ovine model
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Figure 1  Representative image pair for radiostereometric analysis depicting cage markers, bone markers (ilium and ischium) and orthogonal direction of translation measures (x, y and z); blue region represents the zone of radiographic shadow.
Figure 2  Graphical depiction of three-dimensional migration (mm) for all image pairs of each animal analysed including the outliers. Attention is drawn to number 2 (acetabular fracturing/ballooning), number 3 (stem subsidence), and number 6 (dorsal rim fracture/luxation). RSA = radiostereometric analysis; WKS = weeks.

Figure 3  Graphical depiction of translational characteristics (mm) for each animal in the x-orthogonal plane (medial/lateral). RSA = radiostereometric analysis; WKS = weeks.
Figure 4  Graphical depiction of translational characteristics (mm) for each animal in the y-orthogonal plane (cranial/caudal). RSA = radiostereometric analysis; WKS = weeks.

Figure 5  Graphical depiction of translational characteristics (mm) for each animal in the z-orthogonal plane (dorsal/ventral). RSA = radiostereometric analysis; WKS = weeks.
Figure 6  Graphical depiction of three-dimensional migration (mm) for all image pairs of each animal analysed with outliers removed (Figure 2). RSA = radiostereometric analysis; WKS = weeks.

Figure 7  Necropsy appearance of explanted acetabuli (should the plural be “acetabula”?) depicting treated (A) and intact contralateral acetabuli (B). Areas from which histological sections were obtained are depicted as white dots).
Figure 8 A representative histological section of the articular cartilage highlighting the pathological changes present (safranin O x 200): Normal cartilage (*), degenerative cartilage (**), subchondral bone erosion (***) and proliferative fibrovascular tissue (****). Scale bar reflects a length of 500 microns.