

## Supplementary data

Table 2. Point estimates of mean bone mineral density (g/cm<sup>2</sup>) and as percentage of baseline values (100%) with 95% confidence intervals per region of interest of the impacted bone graft at each study interval <sup>a</sup>

Region	0 months n = 20	3 months n = 20	6 months n = 20	1 year n = 20	2 years n = 17
Cranial, g/cm <sup>2</sup>	2.5 (2.1–2.8)	2.6 <sup>b</sup> (2.3–3.0)	2.7 <sup>b</sup> (2.3–3.0)	2.8 <sup>b</sup> (2.4–3.0)	2.8 <sup>b</sup> (2.5–3.1)
%	100 (97–104)	+6 <sup>b</sup> (2–10)	+9 <sup>b</sup> (5–13)	+13 <sup>b</sup> (8–18)	+14 <sup>b</sup> (6–22)
Medial, g/cm <sup>2</sup>	2.3 (2.0–2.7)	2.4 (2.1–2.8)	2.4 <sup>b</sup> (2.1–2.7)	2.5 <sup>b</sup> (2.2–2.8)	2.5 <sup>b</sup> (2.1–2.9)
%	101 (97–106)	+6 <sup>b</sup> (1–11)	+6 <sup>b</sup> (0–11)	+9 <sup>b</sup> (3–16)	10 <sup>b</sup> (1–18)
Caudal, g/cm <sup>2</sup>	2.3 (2.0–2.6)	2.3 (2.0–2.7)	2.3 (1.9–2.7)	2.3 (1.9–2.7)	2.4 (2.0–2.7)
%	101 (97–106)	+3 (–3–8)	+3 (–3–9)	+4 (–3–11)	+4 (–6–16)
Total, g/cm <sup>2</sup>	2.4 (2.1–2.6)	2.4 <sup>b</sup> (2.2–2.7)	2.5 <sup>b</sup> (2.2–2.8)	2.5 <sup>b</sup> (2.3–2.9)	2.6 <sup>b</sup> (2.2–2.9)
%	101 (98–104)	+4 <sup>b</sup> (1–8)	+6 <sup>b</sup> (2–10)	+8 <sup>b</sup> (4–13)	+9 <sup>b</sup> (2–15)

<sup>a</sup> BMD changes were tested for significant difference compared with the postoperative value in a linear mixed model.

<sup>b</sup> Statistically significant different BMD value compared with the baseline value.

Table 3. Point estimates of clinical scores over time with 95% confidence interval <sup>a</sup>

Type	Preoperative n = 20	3 months n = 20	6 months n = 20	1 year n = 20	2 years n = 19
Oxford Hip Score	39 (35–43)	31 <sup>b</sup> (27–35)	27 <sup>b</sup> (23–32)	26 <sup>b</sup> (21–31)	25 <sup>b</sup> (17–34)
SF 12-physical	46 (34–58)	40 (28–51)	51 (40–64)	50 (37–63)	50 (34–67)
SF12-mental	50 (38–58)	49 (40–61)	61 <sup>b</sup> (49–72)	58 <sup>b</sup> (46–70)	63 <sup>b</sup> (49–78)
VAS-pain	60 (46–71)	35 <sup>b</sup> (25–48)	29 <sup>b</sup> (19–40)	29 <sup>b</sup> (17–42)	31 <sup>b</sup> (19–48)
VAS-satisfaction	–	71 (59–82)	78 (65–89)	77 (65–88)	77 (63–90)

<sup>a</sup> Results were tested for significant difference compared with the postoperative value in a linear mixed model. Oxford Hip Score (OHS), SF12-score, and a visual analogue scale (VAS) for pain and satisfaction: “0” is minimum score and “100” is maximum score.

<sup>b</sup> Statistically significant different BMD value compared with the baseline value.

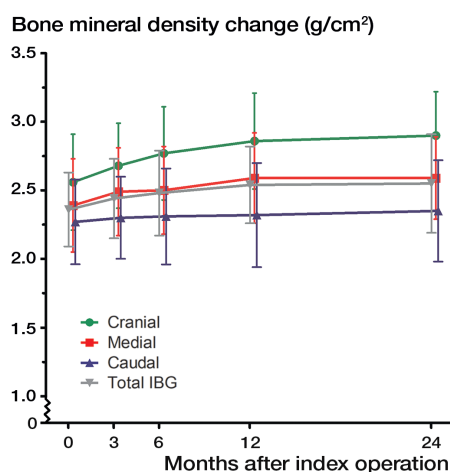


Figure 4. Point estimates of mean bone mineral density (BMD) changes of the impacted bone graft (g/cm<sup>2</sup>) with 95% confidence intervals during 2 years' follow-up. The mean total BMD (grey) is divided into 3 regions of interest: cranial (green), medial (red), and caudal (blue) to the acetabular cup.