

Figure captions

Fig. 1 The patient is a 45-year-old female developing acetabular dysplasia with high position of the left greater trochanter, accompanied by LLD of approximately 2.5 cm on the left side in the weight-bearing position. **a,c,d,f** VCA angles before(**a,c**) and after(**d,f**) correction. **b,e** Anteroposterior view before(**b**) and after(**e**) correction

VCA, V; vertical line from the center of the femoral head, *C*; center of the femoral head, *A*; anterior edge of the acetabula

Fig. 2 Comparison of mean VCA angles before and after correction and their differences by LLD level in patients. **a** The short-leg side. **b** The long-leg side

Fig. 3 Comparison of mean VCA angles before and after correction and their differences in healthy individuals

Fig. 4 Comparison of mean VCA angles before and after correction on the long-leg side in patients and before and after correction on the short-leg side in healthy individuals

Fig. 5 Comparison of mean VCA angles by LLD level before correction on the short-leg side in patients and after correction on the short-leg side in healthy individuals