

## SHORT ABSTRACT

# Postoperative Radiograph of the Hip Arthroplasty

Geert Vanderschueren

**Keywords:** total hip arthroplasty; loosening; infection; periprosthetic fracture

Radiographic analysis of hip arthroplasty should include:

PARAMETERS	NORMAL
1. LEG LENGTH	<1 CM
2. HORIZONTAL CENTER OF ROTATION	=CONTRALATERAL HIP
3. VERTICAL CENTER OF ROTATION	=CONTRALATERAL HIP
4. ACETABULAR INCLINATION	30°–50°
5. FEMORAL STEM POSITIONING	NEUTRAL TO LONGITUDINAL AXIS OF SHAFT
6. ACETABULAR ANTEVERSION	5°–25°
7. CEMENT MANTLE THICKNESS	2–3 MM FEMORAL; 3 MM? ACETABULAR

Complications are “periprosthetic lucencies” (aseptic loosening, infection etc.), “sclerosis/bone proliferation” (heterotopic bone etc.) and “component failure/fracture”.

We recommend a standardized radiological approach, at hospital discharge and 6 weeks and 12 months after surgery, unless pain or clinical symptoms warrant more early investigation [1].

### Competing Interests

The author has no competing interests to declare.

### References

1. **Vanrusselt, J, Vanssevenant, M, Vanderschueren, G and Vanhoenacker, F** Postoperative radiograph of the hip arthroplasty: what the radiologist should know. *Insights into Imaging*. 2015; 6(6): 591–600. DOI: <https://doi.org/10.1007/s13244-015-0438-5>

**How to cite this article:** Vanderschueren, G 2017 Postoperative Radiograph of the Hip Arthroplasty. *Journal of the Belgian Society of Radiology*, 101(S2): 18, pp. 1–2, DOI: <https://doi.org/10.5334/jbr-btr.1412>

**Published:** 16 December 2017

**Copyright:** © 2017 The Author(s). This is an open-access article distributed under the terms of the Creative Commons Attribution 4.0 International License (CC-BY 4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See <http://creativecommons.org/licenses/by/4.0/>.



*Journal of the Belgian Society of Radiology* is a peer-reviewed open access journal published by Ubiquity Press.

**OPEN ACCESS** 