



## RESEARCH TOPIC CLI20

### Evolution of the design of shoulder prosthesis stem and glenoid: clinical and radiological outcomes

#### Clinical Unit name

Shoulder and Elbow Unit  
IRCCS – Humanitas Research Hospital

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#### Abstract

Shoulder arthroplasty procedures have consistently increased in the last 30 years, because of the reverse prosthesis spread, the better understanding of the shoulder pathology and replacement biomechanics, the technology development, and are expected to increase in the following years. The introduction of new models and designs are expected to improve clinical results, resulting in better outcomes and survival rates. This project aims to collect data regarding modern shoulder prosthesis and to analyze the improvement compared to older and more classical design.

#### Scientific references

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2. Castagna A, Garofalo R (2019) Journey of the glenoid in anatomic total shoulder replacement. Shoulder Elbow 11:140–148.
3. Werthel JD, Walch G, Vegehan E, Deransart P, Sanchez-Sotelo J, Valenti P: Lateralization in reverse shoulder arthroplasty: A descriptive analysis of different implants in current practice. Int Orthop 2019;43:2349-2360.

#### Type of contract

PhD scholarship of € 22.400 gross per year awarded by Humanitas University. This sum is exempt from IRPEF income tax according to the provisions of art. 4 of Law no. 476 of 13th August 1984, and is subject to social security contributions according to the provisions of art. 2, section 26 and subsequent sections, of Law no. 335 of 8th August 1995 and subsequent modifications.



Borsa di dottorato pari a € 22.400 annui lordi erogata da Humanitas University. Importo non soggetto a tassazione IRPEF a norma dell'art. 4 della L. 13 agosto 1984 n. 476 e soggetto, in materia previdenziale, alle norme di cui all'art. 2, commi 26 e segg., della L. 8 agosto 1995, n. 335 e successive modificazioni.