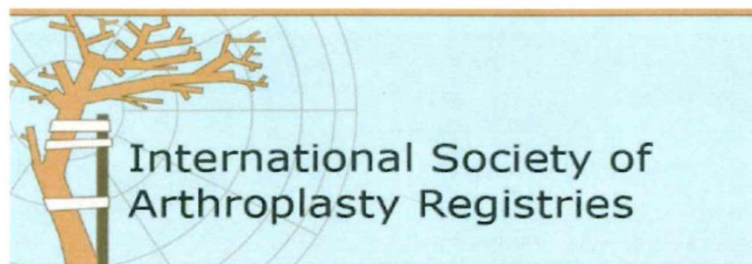




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## Shoulder arthroplasty in Italy: Epidemiological analysis

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### Introduction

In the recent years, shoulder replacement procedures have registered an important increase worldwide. Aim of this study is to describe the epidemiology of shoulder arthroplasty in Italy.

### Materials and Methods

Hospital Discharge Records (HDR) Database was queried for the years 2001 and 2013 using ICD-9 codes 81.80 and 81.81 (total and partial shoulder replacement). Hospitals were ranked by classes of volume (1, 2-4,  $\geq 5$ ). Numbers of procedures, age and sex of patients were compared between years 2001 and 2013.

### Results

Between 2001 and 2013 the total number of procedures has increased 280,3% (N=1.539 in 2001, N=5.853 in 2013). The most performed procedure was partial shoulder replacement in 2001 (54,9%) and total shoulder replacement in 2013 (75,7%). Shoulder arthroplasties were performed in 350 hospitals in 2001, in 560 in 2013. The most represented hospital volume class was 2-4 procedures/year (39,4%) in 2001 and  $\geq 5$  procedures/year (56,8%) in 2013. Mean age for women was 70,3 (range 8-93) in 2001 and 72,6 (range 12-94) in 2013, for men 59,8 (range 9-91) and 66,5 (range 9-91). Women were 77,6% in 2001 and 73,7% in 2013.

### Discussion/Conclusion

The dramatic increasing in the number of shoulder arthroplasty performed every year in Italy, the involvement of even more older patients and the lack of specific codes in ICD-9 to describe the revision procedures showed the need to include also shoulder replacements in the Italian National Arthroplasty data collection. A dedicated project started in 2014 defining the data collection form additional to HDR. Data collection will be implemented in selected regions within 2015.

### Notes