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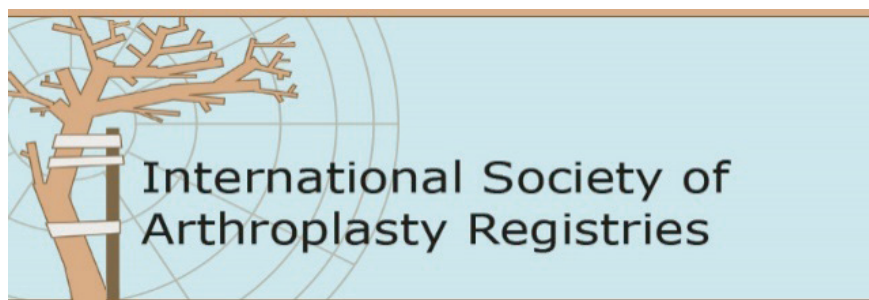# 5th International
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Interoperability between the Italian Arthroplasty Registry Medical Devices Library and the International Consortium of Orthopaedic Registries Global Library

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Introduction

Identifying implanted prostheses is a keystone to support patient recall in case of implant failure while describing the technical attributes is essential in a comparative assessment of implant performance. In 2007, the Italian Ministry of Health (MoH) established the National Medical Devices Data Bank and since then, all the devices marketed in Italy must be registered. However, most of the technical information are not available in a structured form. Thanks to the active cooperation of 60 manufacturers, the Italian Arthroplasty Registry (RIAP), a project funded by MoH has been building the RIAP Medical Device (MD) Library, currently including nearly 55,000 catalogue codes. In 2015, a cooperation with the International Consortium of Orthopaedic Registries (ICOR) started aimed at integrating the RIAP-MD-Library with the attributes and collecting those related to devices not still "included" in the ICOR-Global-Library, but recorded in the RIAP-MD-Library.

Methods

The ICOR-Global-Library taxonomy was acquired by the RIAP-MD-Library and the two libraries were linked. A preliminary set of 20 devices not included in the ICOR-Global-Library was selected for further analysis by extracting the attributes from the technical sheets available in the National Medical Devices Data Bank.

Results

Based on the taxonomy developed by ICOR, a XML scheme was produced supporting the new architecture of the RIAP-MD-Library. The linkage between the two libraries resulted in ≥50% of common catalogue codes. Extraction of the attributes was possible for >70% of the selected fields.

Conclusion

Interoperability between different databases provides added value for a global, standardized classification system, essential to support worldwide the post market surveillance.