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<p>INCIDENCE OF TOTAL HIP ARTHROPLASTIES AND REVISIONS IN DENMARK BETWEEN 1996 AND 2002 AND ESTIMATED FUTURE DEMANDS</p> <p><u>Alma B. Pedersen</u>^{1,2}, Søren P. Johnsen², Søren Overgaard³, Kjeld Søballe¹, Henrik T. Sørensen² and Ulf Lucht¹. ¹ Department of Orthopaedics, Aarhus University Hospital, Denmark. ² Department of Clinical Epidemiology, Aarhus University Hospital, Denmark. ³ Department of Orthopaedics, Odense University Hospital, Denmark.</p> <p>Objectives: We report the incidence rates (IR) of primary total hip arthroplasties (THA) and revisions in Denmark between 1996 and 2002 and estimate the demands for primary THA in Denmark until 2020. Methods: We used data from the population-based Danish Hip Arthroplasty Registry to identify patients who had undergone primary THA (n=37,144) and revision (n=6,446). Age- and sex-specific data on the population size were obtained from The Statistics Denmark. All IRs were standardised according to the European (18 age groups) Standard Population. The future demands for primary THA were estimated using the age and gender specific incidence of primary THA for 2002 as a reference. Two different estimates for future were calculated, i.e. first simply based on the expected changes in the age distribution of the population and second based on expected changes in the age distribution combined with the trend in IRs seen in Denmark from 1996 to 2002.</p> <p>Results: The overall standardized IRs of primary THAs and revisions increased from 86.7 (95% CI, 80.7-92.8) to 113.4 (95% CI, 106.5-120.8) and from 16.4 (95% CI, 14.0-19.7) to 17.3 (95% CI, 14.2-19.5) per 100,000 inhabitants from 1996 to 2002, respectively. The IRs of primary THAs and revisions increased by 30% and 10% during this period, respectively. The increase was higher among females and patients between 50-59 years. However, a decrease in IRs was seen in patients who underwent primary THA due to rheumatoid arthritis. IRs of primary THAs were estimated to increase by 22% in 2020 compared with 2002, based on the expected changes in the age distribution of the population only. However, assuming that the yearly age-independent increase in IRs of 5.2% in the period 1996-2002 continues, the IR of primary THA were estimated to increase by 205% in 2020. Conclusions: The overall incidence of primary THAs and revisions in Denmark has increased during the period from 1996 to 2002. Furthermore, the demands for THA procedures in the coming decades will increase dramatically due to changes in the age distribution of the population and a continued age-independent increase in the surgical activity.</p> <p>Keywords: total hip arthroplasty, incidence, Denmark, prediction</p>	<p>To be completed by submitting Author</p> <p>(see „Abstract Preparation Guidelines“)</p> <p>Abstract category <input type="checkbox"/> Poster presentation <input checked="" type="checkbox"/> Oral Presentation</p> <p>For office use only</p> <p>Abstract No.</p> <p>Reviewer Rating</p> <p><input type="checkbox"/> Oral <input type="checkbox"/> Poster <input type="checkbox"/> Reject</p>
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