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TRENDS OF OPERATING ROOM-BASED GLAUCOMA PROCEDURES IN FRANCE FROM 2005 TO 2014: A NATIONWIDE STUDY

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Aim: The aim of this study is to report the trends of operating room-based glaucoma procedures from 2005 to 2014 in France.

Methods: We identified operating room-based glaucoma procedures (trabeculectomies, deep sclerectomies, aqueous shunts and ciliary body destructions) performed in France from 2005 to 2014 by means of billing codes from a national database. Annual rates and incidence of these procedures per 100,000 were analyzed globally and in 3 age groups: 0-14 years, 15-59 years and over 60 years.

Results: The annual rate of trabeculectomies slightly decreased during the study period while the rate for other surgical techniques (deep sclerectomies, aqueous drainage procedures and ciliary body destructions) increased. The rate of glaucoma surgery was 30 procedures per 100,000 inhabitants over the study period (standardized rate on the French population). There were variations over time in the rate of different types of procedures. For example, the annual rate of trabeculectomy decreased slightly during the study period from 15.6 in 2005 to 12.1 procedures per 100,000 inhabitants in 2014. Second, the rate of deep sclerectomies doubled between 2005 and 2006 from 5.3 to 10.4 procedures per 100,000 inhabitants and then declined steadily to reach 7.8 procedures per 100,000 inhabitants in 2014. Finally, the rate of aqueous drainage procedures increased over the period from 0.24 in 2005 to 0.95 procedures per 100,000 inhabitants in 2014 and the rate of ciliary body destructions increased from 1.98 to 3.02 procedures per 100,000 inhabitants during the period.

Conclusion: Trabeculectomy was the most commonly performed operating room-based glaucoma procedure in France from 2005 to 2014. Other modalities such as deep sclerectomies, aqueous drainage procedures and ciliary body destruction gained more acceptances among French ophthalmologists during this ten-year period.

Biography

Anne-Sophie Mariet is a public health medical doctor and a Ph.D. student in environmental epidemiology and biostatistics. She works in the Biostatistics and Medical Informatics unit of Dijon University Hospital. Her themes of research are the study of the effects of environmental multi-exposure to noise and air pollution on health particularly in the perinatal period, and the utilization of the hospital Medical Information System Program in epidemiology.

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