Analysis of caesarean section rates using Ten-Group Robson classification system at a State Hospital in Northern Cyprus

Dr. Gulifeiya Abuduxike, Songul Acar Vaizoglu, Ozen Asut, Sanda Cali

Department of Public Health, Near East University, Turkey

Background: The substantial increase of caesarean section (CS) rates over the years has become an important public health issue worldwide. The Robson classification system was recommended and widely used by many countries to assess and monitor CS rates in specific health settings.

Objective: To analyze the CS rate of a State Hospital, Northern Cyprus using the Robson classification system, and to assess the obstetric population and quality of data.

Methods: This retrospective study was conducted by reviewing the medical records of all women who were admitted for deliveries at the State Hospital. The Robson's Ten Group Classification System was used to categorize women into Robson groups and to analyze the absolute and relative contribution made by each group to the overall CS rate. The Pareto diagram was used to analyze the Robson groups based on 80/20 roles related to CS increase.

Results: Of 698 women who were classified into Robson groups, 300 (43%) gave births by CS. Robson Group 5 (multiparous, term, cephalic presentation and previous caesarean section) contributed the most (21.8%) to the overall CS rate. In Pareto diagram, groups 5, 3, 10, 4 and 2 were the five groups comprising 83% of total deliveries.

Conclusions for Practice: Study findings revealed a high CS rate and substandard quality of data at the state hospital. It underscored the needs for adopting the Robson classification system as a standard clinical practice to improve data quality, which will lead to effectively analyze and monitor the CS rates in specific obstetric population.

Biography

Dr. Gulifeiya is a medical doctor with more than 15 years of research and teaching experience in the areas of public health. She has worked in various national and international institutions in several countries including China, Malaysia, Singapore ,and Turkey. Her main teaching and research interests are in the areas of women's and child health, adolescents' sexual and reproductive health, family planning and contraceptive methods, epidemiology, and evidence-based medicine. She is currently working as an associate professor in public health department at Near East University.

gulifeiya.abuduxike@neu.edu.tr