## IDENTIFICATION AND USE OF OPERATING ROOM EFFICIENCY INDICATORS: THE PROBLEM OF NOT PERFORMING THE RIGHT SEARCH WITHIN PUBMED

Drs. Fixler and Wright' should be commended for demonstrating that operating room (OR) performance indicator definitions vary in literature and among children's hospitals. Unfortunately, I do not agree with their conclusion that the most logical course would be for professional associations to agree upon and develop common metrics and definitions. Their conclusion is based on a limited review of papers that are not always relevant.

First, the Procedural Times Glossary has been the leading source for OR definitions since 1997.<sup>2</sup> Papers describing operational research in ORs use this glossary.<sup>3</sup> A bibliography of papers concerning operational research within the OR can be found online (http://www.franklindexter.net/bibliography\_TOC.htm).

Based on this evidence, I conclude that there are clear definitions for monitoring OR performance indicators. An additional conclusion is that hospitals continue to use their own definitions. This needs to be solved by sending surgeons, anesthesiologists and managers of ORs to courses where they can learn which indicators to use and how to use them.

Fixler and Wright call for us to use the OR resources in both an efficient and effective way. Here they make a mistake. Indeed, monitoring the operational performance of the OR may contribute to the use of OR resources in an efficient way. However, the call to use OR resources in an effective way is a faulty statement. According to the Institute of Medicine's Committee on Quality Health Care in America, effective care "is based on providing services based on scientific knowledge to all who could benefit, and refraining from providing services to those

not likely to benefit (avoiding underuse and overuse, respectively)." Here the patient clinical parameters are of interest and not, for example, the utilization rate of the OR.

In conclusion, performing an accurate search in PubMed will show that the actual problem of agreed-upon definitions in literature, as described by the authors, does not exist.

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## COMMENT ON "IDENTIFICATION AND USE OF OPERATING ROOM EFFICIENCY INDICATORS: THE PROBLEM OF DEFINITION"

It was with profound interest that we read the commentary written by Tamas Fixler and James G. Wright in the August 2013 issue of the *Canadian Journal of Surgery*. The commentary deals with the identification and measurement of operating room (OR) performance indicators, addressing the variation among hospitals in terms of which indicators are collected and analyzed.

Common definitions among hospitals are essential for external benchmarking. Although the authors identified 8 indicators as the most critical for monitoring OR performance in 15 children's hospitals in Canada, definitions for these indicators vary in literature and across hospitals.

In the Netherlands, OR departments of all 8 university medical centres (UMCs) established a nationwide benchmarking collaboration in 2005 that is still active today. The objective of the collaboration is to improve OR performance by learning from each other through exchanging best practices. Each UMC provides records for all performed surgical cases to a central OR benchmark database. This extensive database, presently comprising more than 1 million surgical case records, is used to calculate key performance indicators related to the utilization of OR capacity. The database is also used for multicentre research on OR scheduling topics and OR efficiency.

At the start of this collaboration, a set of performance indicators, particularly from a utilization perspective, was identified. Next, data definitions of time periods and methods of registration, as well as definitions of performance indicators, were harmonized among all benchmarking participants, a process that took nearly 2 years. An independent data management centre enters the longitudinal data collection in the central OR benchmark database. This centre provides professional expertise by facilitating and processing data, and by performing reliability checks before data are deemed ready for analysis.