



Aalborg Universitet

AALBORG UNIVERSITY  
DENMARK

## Clinical performance measurement based on secondary use of data

Vingtoft, Søren; Nørgaard, Lasse; Christophersen, Sten; Kjærgaard, Johan; Høgskilde, Steffen; Nøhr, Christian

*Published in:*  
Infrastructures for Health Care

*Publication date:*  
2009

*Document Version*  
Publisher's PDF, also known as Version of record

[Link to publication from Aalborg University](#)

### *Citation for published version (APA):*

Vingtoft, S., Nørgaard, L., Christophersen, S., Kjærgaard, J., Høgskilde, S., & Nøhr, C. (2009). Clinical performance measurement based on secondary use of data. In *Infrastructures for Health Care: Connecting practices across institutional and professional boundaries* (pp. 43-44)

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- ? Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- ? You may not further distribute the material or use it for any profit-making activity or commercial gain
- ? You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us at [vbn@aub.aau.dk](mailto:vbn@aub.aau.dk) providing details, and we will remove access to the work immediately and investigate your claim.

# **Clinical performance measurement based on secondary use of data**

Søren Vingtoft, Lasse Nørgaard, Sten Christophersen, Johan Kjærgaard, Steffen Høgskilde, Christian Nøhr

## ***Background***

A maintained focus on continuously improvement of the quality of care by means of systematic standardised performance measurement has shown impact on clinical practice. For example the implementation of national guidelines in colorectal cancer has shown a cut down of 50% in the mean waiting time from referral to the initialisation of treatment at a national level.

There is a substantial desire among clinicians and administrators to extend clinical performance measurement in several clinical areas. However, this is in practise limited due to the clinical burden of the necessary data capture. On the other hand clinicians document terabytes of patient data as an embedded part of their daily work. Different clinical it systems generate an increasing amount of structured data as part of the diagnostics, treatment and administration of the patients. The potential for improved secondary use of patient data has been specifically addressed in a white paper published by the “American Association of Medical Informatics” (ref1). The white paper points at various aspects of secondary use of data including the citizen (the consumer), patient safety, quality improvement, population health and research and recommends the following:

- Data management should be entirely transparent for the public
- Focus on ownership to data utilization rather than ownership to data as such
- Seek broad consensus on data security and public awareness about the purposes of secondary use of data
- Find a taxonomy for secondary use of patient data
- Focus on the national interests on secondary usage of patient data

## ***An example of a national system for clinical performance measurement and secondary use of data***

The National Competence Centre on Clinical Databases, Region East (ref2) has during the last 8 years developed a national clinical performance measurement system (CPMS). The core of the system is a clinical data warehouse developed on the SAS platform which is interfaced to a set of different data sources, such as Electronic Health Records and dedicated web-based quality data entry systems. Over the last couple of years CPMS has been connected to national registries such as the National Patient Registry. This enables CPMS to reuse patient data from the patient administrative context which gives new opportunities for clinical performance measurement. CPMS is today covering 22 disorder areas at a national level and is furthermore being used as the platform for continuously national measurement of cancer treatment.

The paper will present the development results of CPMS in relation to secondary use of patient data. The presentation will show how CPMS candidates to become a central component type of the evolving health care information infrastructure and will discuss principal and practical aspects of secondary use of patient data in relation to clinical performance measurement.

## **References**

1. Safran C, Bloomrosen M, Hammond WE, Labkoff S, Markel-Fox S, Tang PC et al. Toward a National Frame-work for the Secondary Use of Health Data: An American Medical Informatics Association White Paper. J Am Med Inform Assoc 2007; 14(1):1-9.
2. [www.kliniskedatabaser.dk](http://www.kliniskedatabaser.dk)