



Centre for Health Data: A new model for increased data access

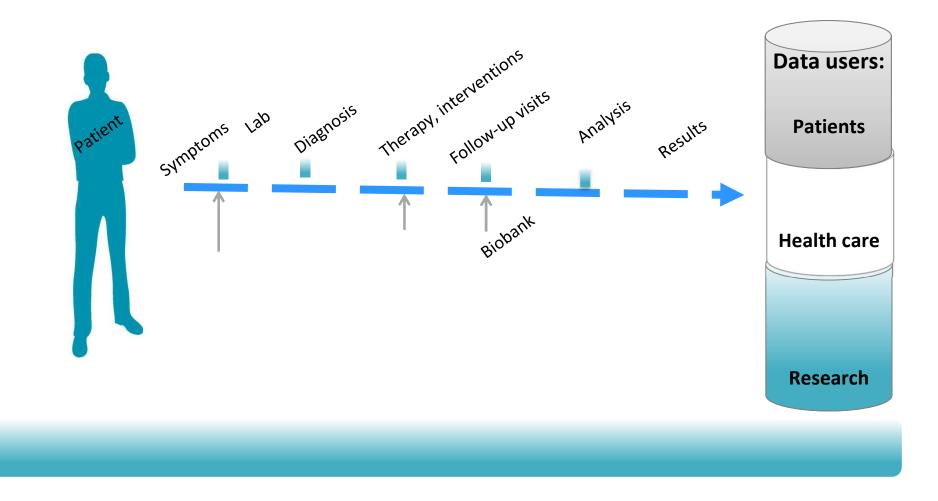
Clara Hellner

Director of Research and Innovation

Region Stockholm

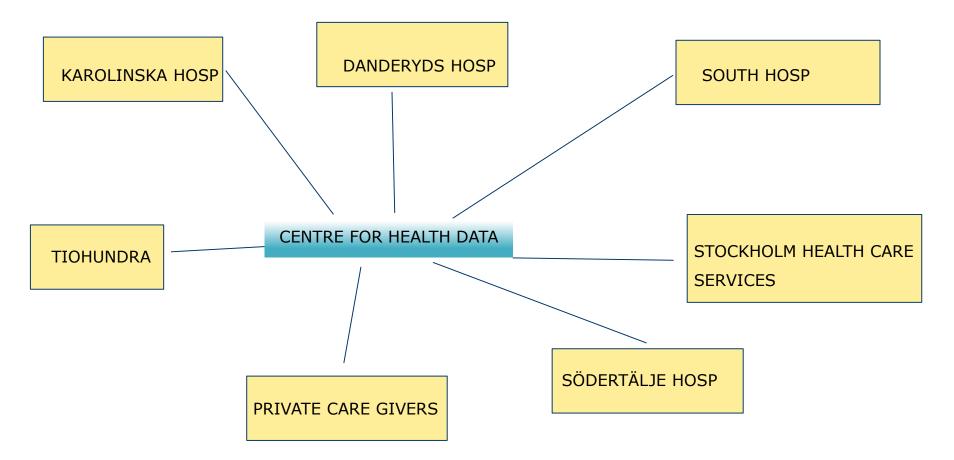


Data from each patient stored in electronic medical records





Stockholm: Several big hospitals/outpatient units, each their own information owner





Centre for Health Data

- Created in 2019
- Aim:
 - Single point of contact for researchers and companies in need of health data
 - Coordinated application and assessment process in the entire region



Centre for Health Data

- Tasks:
 - Assist researchers who need data from > one caregiver
 - Assist the health care system (internal follow-up of health care quality)
 - Method development



Overarching goal

Facilitate the development of precision medicine



Data sources

- Stockholm Regional Data Ware House (VALdatabasen)
 - Limited information but high coverage
 - Well described, easy to retrieve data
- Electronic Medical Records
 - Unlimited information
 - Not well organised/described
 - Incomplete coverage, free text etc

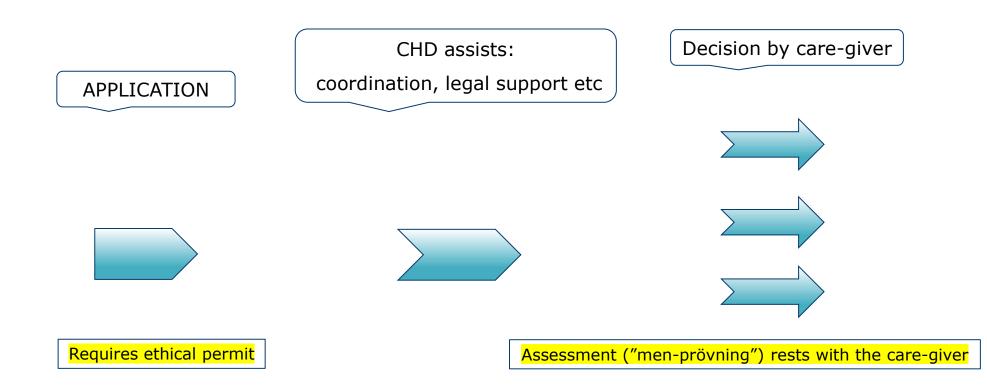


Data sources

 Numerous "subunits" for different types of data (lab, EKG, x-rays etc)



PROCESS





Scandinavian Journal of Public Health, 2019; 47: 618-630

ORIGINAL ARTICLE



A gold mine, but still no Klondike: Nordic register data in health inequalities research

KJETIL A. VAN DER WEL¹, OLOF ÖSTERGREN², OLLE LUNDBERG², KAARINA KORHONEN³, PEKKA MARTIKAINEN³, ANNE-MARIE NYBO ANDERSEN⁴ & STINE KJAER URHOJ⁴

¹Department of Social Work, Child Welfare and Social Policy, OsloMet – Oslo Metropolitan University, Norway, ²Department of Public Health Sciences, Stockholm University, Sweden, ³Faculty of Social Sciences, Population Research Unit, University of Helsinki, Finland, ⁴Department of Public Health, Section of Epidemiology, University of Copenhagen, Denmark



(Horror) Stories from Nordic research projects

Overview

	Denmark	Finland	Norway	Sweden
Net processing time (days)	100/150ª	210	774/237	399
Costs in 1000s €	6	25	36	10
Number of decision makers	2(5)	3	6/7	3(4)
Number of data retrievers	1(2)	3	5	2

*The processing time was approximately 100 days from submission of first application and approximately 150 days including consultancy and processing time together with the Public Health Database staff.

^b The figures represent approximate net processing time and costs of updating and extending data set (2).

A gold mine, but still no Klondike: Nordic register data in health inequalities research. Kjetil van der Wel *et al.* Scandinavian Journal of Public Health, 2019; 47: 618–630 ₇



Challenges: several



Incomplete applications

Lack of knowledge/understanding among applicants



Lack of agreement between care-givers

Assessments of legal issues, it-security etc



Lack of capacity to retrieve data





Challenges

- In reality access is limited
- Large resources required to retrieve them
- On a positive note: Room for improvement!



- Scrutinize each step of the process
- Increase data extraction capacity
 - Electronic Medical Record system Take Care



- Method development
 - Synthetic data?
 - Changing the format free text in EMDs?
 - Data lakes?



- Close collaboration with partners
 - Royal College of Technology: IT, security
 - Stockholm university: Legal development



- Create consensus among care givers
- Involve stakeholders (patients, life science sector, researchers)



2021-05-03 18 Organisation/Namn

Thank you!



CHD: current case-flow

