Chronic and multi-morbid conditions - The role of hospitals in service delivery

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The interdependence of productivity, cost, and outcome: Studies of service delivery in Finnish university hospitals

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ABSTRACT: The relationship and interdependence between cost and productivity plays a significant role in understanding and assessing service delivery in university hospitals. This article shows some of the elements and factors, highlighting the further need for studies such as EuroHOPE and others. A broad and consistent data comparison in the Nordic region and Finland especially is presented, based on common DRG criteria. Expanding the Nordic data comparisons to other European countries is also discussed, with notice of further work to be published.
Relative productivity of Nordic hospitals

Source: Kittelsen et al. (2009)
Kuopio leads in productivity

Source: National Institute of Health and Welfare, Finland
Per capita cost of health care and care of the elderly in Finnish University hospital districts

Kuopio has the highest cost

Source: National Institute of Health and Welfare, Finland
Costly Patients: top 10% account for 60% of the total cost
-Kuopio University Hospital 2012
42% have used the services of 5 or more clinical units
Kuopio University Hospital 2012
Hospital beds by function of health care, 2010
(or nearest year)
Source: OECD Health Data 2012; Eurostat Statistics Database.

Countries ranked from highest to lowest number of total hospital beds per capita
A Systems Approach

Determinants of a disease → Pre-stage of a disease → Acute stage of a disease → Chronic stage of a disease

Costs and Outcomes

Health care system

Economic resources → Incentives → Medical knowledge
The Regional Authority has a role in combining the Hospital with other services and forming the Regional Service Network.
Hospital Planning:
Dividing Hospital into Typological Parts

Old hospital
The hospital is “one building”, all under the same typology

Future hospital
Hospital is divided into four parts according to four typologies

Source: Prof. T. Kurkela
Aalto University
Functions

- Hot Hospital
- Office
- Hotel
- Factory

- 24 / 7 Hospital
- Elective care
- Wards
- Support

- Emergency
- Deliveries
- Operation theatres
- ICU
- Diagnostics
- Polyclinics
- Multidisciplinary consultation rooms
- Knowledge centers
- Treatment rooms
- Day hospital
- Not specialized
- Specialized staff teams
- Hotel concept
- Clinical physiology
- Neurophysiology
- Laboratory
- Pathology
- Sterilization
- Pharmacy
- Kitchen
- Logistics center
- Storages
- Technical spaces

Source: Prof. T. Kurkela
Aalto University
PATIENT MOBILITY

- EU Directive
- Freedom of choice
- Subjective right
Thank You!