



Evaluating case and disease management strategies in Sweden Presentation at Forum for Health Policy Joachim Werr, MD, PhD

30th May 2013

Summary

- 1% of the population within the county councils accounts for 30% of total health care spending. Many of these patients have frequent ER visits.
- Our results from large-scale RCTs indicate that a nurse-driven case management contact program delivered primarily through planned telephone support can increase quality of life and substantially decrease health care consumption and costs if the right patients are targeted.
- Health care organizations can expect high return (in terms of improved quality of life for patients and reduced health care costs) of strategies that support patients with frequent ER visits and high per capita health care consumption/costs.
- In our presentation May 30 we will describe how we have developed, a for Sweden new patient-centric intervention, and taken it from paper to system-wide use in an controlled scale-up within five County Councils.
- We believe that this is a good and encouraging example that improvements within healthcare can both be achieved quickly and in a highly measurable manner.



Today's presentation will focus on new strategies to improve quality and reduce costs for high health care consumption patients

A long term collaboration between counties, academia and Health Navigator...







Five county councils engaged to date

- · Financer and owner of the projects
- Initiated and supported by the political leadership and senior administratives

Karolinska Institutet and hospitals

- All or majority of emergency care hospitals participate
- Senior epidemiologists advise and publish results in peer reviewed journals and at meetings and conferences

Health Navigator

- Develops and delivers the actual intervention program for more than 5000 patients within four counties
- Provides tools, expert nurses and all project leadership



Who we are and our role in the collaboration with the Stockholm County Council

Todays presentors:



Joachim Werr, CEO Health Navigator

- Initiator of the collaboration with the county councils
- MD, PhD Physiology, Karolinska Institutet
- Management consultant, McKinsey&Co



Jonas Lundberg, Partner Health Navigator

- Contacts with academia, publishing of results
- M.Sc. Biomedicine PhD Medical Management, Karolinska Institutet
- Management consultant, McKinsey&Co
- Project manager, Strategy Development Office, KI



Our team combines analytic, strategic and medical competence

- 75 employees in total
 - 60 licensed health-care
 professionals
 - 6 PhD
 - 7 M.Sc. in business administration and finance with health care economics competence
 - 7 M.Sc. in engineering with specific competence in biostatistics



The County Councils are facing a challenge to manage the population segment with high resource utilization

- 1% of the population account for approx. 30% of the total health care spending in the Counties. These care demanding patients have some characteristics in common:
 - 8-12 different diagnoses
 - 65-100 care contacts per year
 - One hospital admission every third month, often unplanned
 - Very low self-rated quality of life (SF-36)
 - Large needs for support, care coordination and coaching
- 65% of these patients are younger than 65 years old
- The group of care demanding patients is not static only 15% of the patients belong to the segment also the next year
- International experience has shown that managed care can improve the care for this segment of the population



Source: HSNf Rapport "Utveckling av innovativa och fokuserade beställarstrategier för bättre hantering av vårdtunga patienter", November 2009



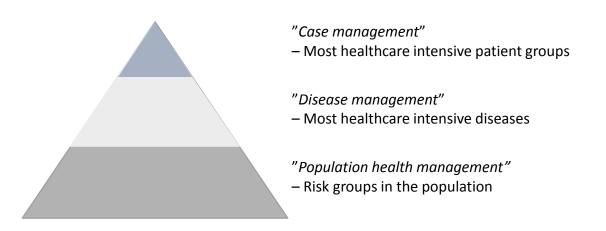
We have further developed and customized internationally validated models of case- and disease management

Background

- A small part of the population accounts for the majority of healthcare spending
- It is possible to predict who will have large healthcare needs in the near future
- Interventions targeted at this population prevent unnecessary healthcare consumption and give large returns on investment (both financially and in terms of quality)

Objective:

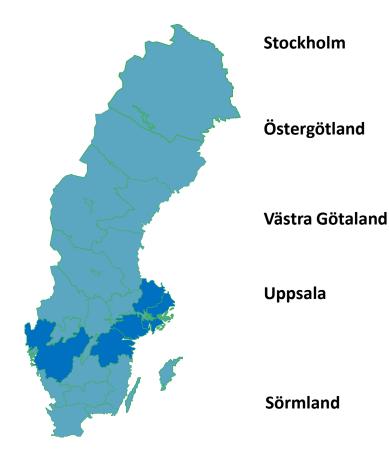
• To identify and pro-actively support risk populations with the purpose of improving health delivery efficiency and increasing the quality of life for these patients



Source: National Registry of Health Care Quality (SALAR), National Registry of Asthma, Health Economics of Depression - Sobocki (2006), National registry of Diabetes, National registry of CHF, National Registry of Stroke, Swedish National Institute of Public Health, Health Navigator analysis



Stockholm is leading a national trend of evaluating case and disease management models and exchanges results and insights with a growing number of other County Councils



- Started in June, 2010
- Currently includes 4 target groups in 4 RCTs
- 5000 patients with a case management nurse
- Started in October, 2011
- Currently includes 3 target groups in 3 RCTs
- 600 patients with a case management nurse
- Started in April, 2012
- Currently includes 2 target groups in 2 RCTs
- 1000 patients with a case management nurse
- Started in January, 2013
- 2 RCTs
- 300 patients and three case management nurses
- Starting in June, 2013
- 2 RCTs



Evidence base for CM/DM or aktiv hälsostyrning

Case Management	
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- Population based stratified randomized study (174,120 individuals)
- Intervention consisting of coaching for self care, teaching and shared decision making

Results from the intervention:

- Reduced health care costs
- Reduced number of admissions

Disease Management

- Meta-analysis of 25 randomized studies (8 323 participants)
- Research the effect of telephone and/or telemonitoring based nurse programs in comparison to standard treatment for CHF patients

Results from the intervention:

- Reduction of CHF related admissions and health care costs
- Increased quality of life, ability and knowledge to handle self care
- Improved functional status according to NYHA classification

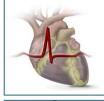
Source: Wennberg D.E., Marr A., Lang L., O'Malley S., Bennett G.A Randomized Trial of a Telephone Care-Management Strategy, N Engl J Med 2010;363:1245-55. Inglis SC, Clark RA, McAlister FA, Ball J, Lewinter C, Cullington D, Stewart S, Cleland JGF Structured telephone support or telemonitoring programmes for patients with chronic heart failure. Cochrane Database of Systematic Reviews 2010, Issue 8. Art. No CD007228. DOI: 10.1002/14651858.CD007228.pub2.



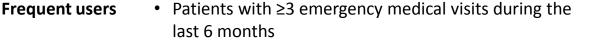
Case management for five target groups is being evaluated in randomized controlled trials



CHF



COPD



 Patients with ≥1 admission due to Congestive Heart Failure during the last 12 months

 Patients (both in- and outpatient care) diagnosed with chronic obstructive pulmonary disease during the last 12 months



Children

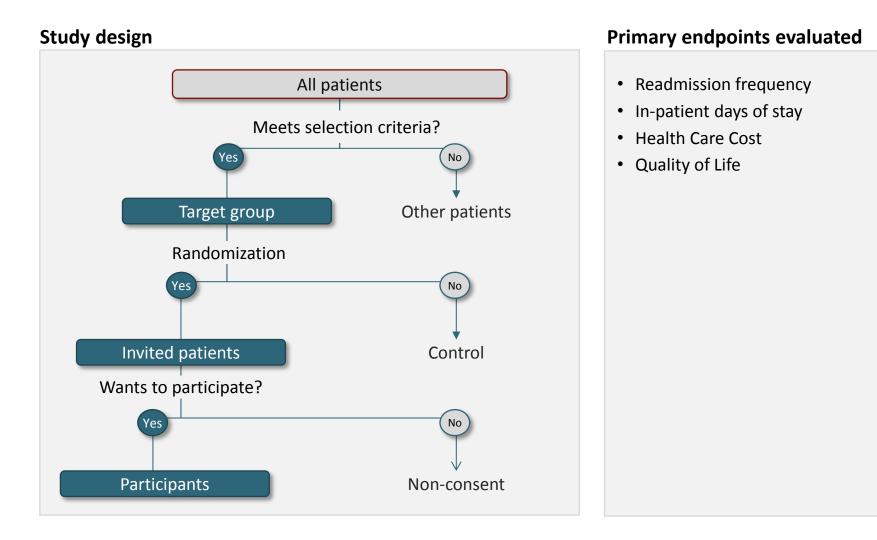


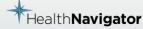
Emergency psychiatry **Obesity in** children (from 2013)

- Young children whose parents repeatedly seek emergency care due to their children's asthmatic conditions
 - Patients who often seek care at psychiatric emergency rooms
 - Pregnant obese and children with high risk for obesity

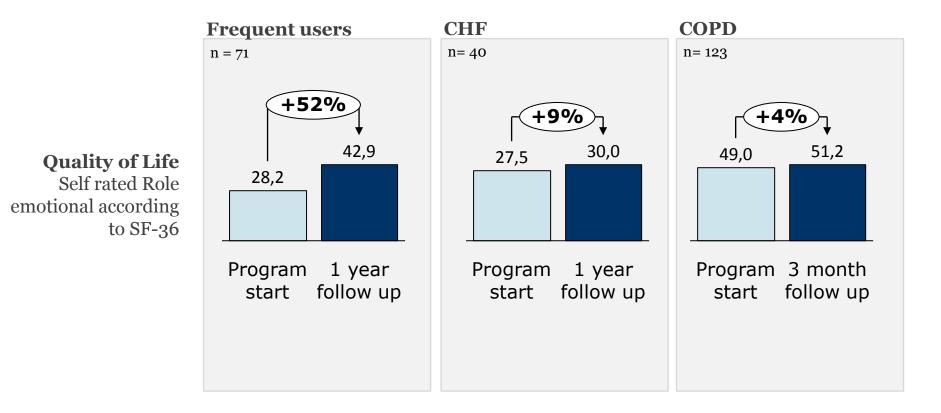


Study design and endpoints evaluated





Patients self-rated quality of life (SF-36) has increased during program participation



Source: Stockholm County Council; Health Navigator analysis

Patients state that the best part of the service is related to "soft factors", such as knowing who to call

What has been the best part of the service?

To be able to speak about my state of health with a trustful person who through technology has full insight about my health problems and can answer and explain the questions I ask

To be able to discuss, get knowledgeable answers and ask questions I don't have time for in doctor visits

Establishing guidelines for me about health

To have a contact person in the health care services has been very safe and reassuring for me. Someone I can call if I issues arise and who always supports with advice and tips. All the while being nice and enjoyable to talk to. This option MUST remain!!

It has been very reassuring to know that there is someone that can be contacted straight away and get answers from.



More data and outcomes will be presented on May 30th...



Parts of the development work has been published in scientific journals during 2012



• A recent article in Läkartidningen about how to predict individuals with an increased risk for unplanned admissions

 An article in European Journal of Emergency about telephone based case management and its effects on health care utilization for frequent emergency department visitors

