National Quality Registers in Sweden

Sweden is not **one** country concerning health care!

21 independent counties /regions

- Different definitions of primary care
- Different financing systems (capitation, FFS) including different P4P systems
- Different medical record systems
- Different systems for follow up
- Different quality indicators

Swedish knee – and hip artroplasty registers in an international perspective



the idea of a national register

...serious consideration should be given to establishing a central register to keep a finger on the pulse of total implant surgery on a nation-wide basis...



NJR in the US started in 2007

Sir John Charnley 1972

Artroplasty registers in the nordic countries



- Knee 1975
- Hip 1979



Hip & Knee 1980



- Hip 1987
- Knee 1994

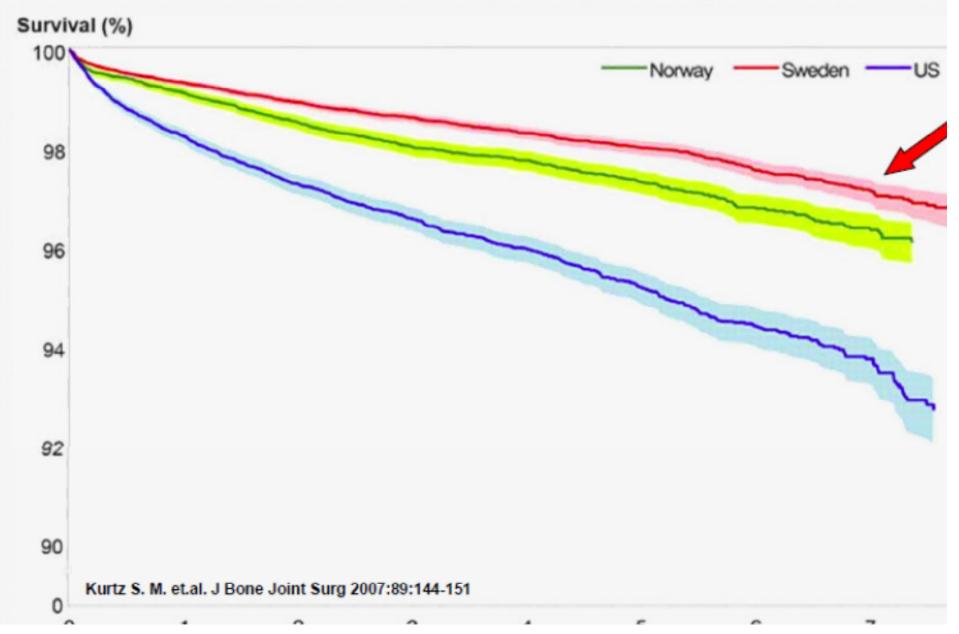


- Hip 1995
- Knee 1997



The lowest reported frequency of reoperations in the world

Fig. 4 Survivorship curves (with 95% confidence intervals) for total hip arthroplasty implain the United States, Sweden, and Norway.





Medical Device Alert

Immediate action / update

Device

DePuy ASR™ hip replacement implants.

Problem	Action
Recall of ASR hip replacement implants due to increased rates of revision.	Do not implant DePuy ASR hip replacements.
	 Return all unused ASR hip replacement implants to the manufacturer.
Action by	Inform all patients implanted with ASR hip replacements about this recall and schedule
 Medical directors. Orthopaedic surgeons. Staff involved in the management of patients with joint replacement implants. 	them for a follow-up visit. Note: the recommendations in this MDA replace the advice given in MDA/2010/044.

What happened later on?



- ASR surface replacement on 93 000 patients.
- Cost in the US 8,100 000 000 \$.
- If US had had an artroplasty register these problems would have been detected in 6-8 months.

The successes of the artroplasty registers

 Has created high expectations of the benefits from quality registers.

They have become a model for quality registers

Differences between registers "surgical" and "medical"

- New procedures with lack of evidence
- Procedures based on evidence.
- What is the outcome of different procedures?
- Adherence to guidelines?

 The register is creating new evidence on the procedures studied Do the results in reality match those in randomised trials/guidelines?

Sweden 90 national quality registers

- Aimed for one diagnosis or one procedure
- Created and managed by hospital specialists
 / researchers with great knowledge about
 that diagnosis or procedure.
- Knowledge about primary care and improvement processes?

8 Quality registers also for use in primary care

Disease	% PC-units	Patients reported
	connected	from Prim Care
 Diabetes 	90 %	250 000
 Heart failure 	6 %	16 984
• Chron. Obstr Lung Di	s 25 %	1 739
 Leg ulcers 	2 %	500
 Dementia 	10 %	248
 Palliative care 	15 %	1000
 Risc detection in 	??	$(47\ 000)$
elderly people		

Pressure and P4P is used to make primary care report to registers

Diabetes Mandatory

• Heart failure P4P

• Chron. Obstr Lung Dis

• Leg ulcers

Dementia Mandatory -P4P

• Palliative care Mandatory -P4P

• Risc detection Mandatory -P4P

in elderly people

GPs are reluctant:

- "The most important qualities of general practice are not in the registers."
- "Registers are not aimed for people with multiple diseases."
- "The results are to often used to tell public and politicians that GPs are bad doctors."
- "Registers are not adapted for improvement in general practice."
- "Time is better spent curing patients than entering data twice"

pvkvalitet.se

(pcquality.se)

Welcome to pvkvalitet.se

Here you can register your own results and get instant feedback, both comparisons with other health centres or over time.

The aim is to make it more fun and easy to measure, compare and improve quality in primary care.

We offer quality indicators for prevention, investigation, treatment and rehabilitation of patients in primary care.

We will also provide tools for local quality improvement.

Det finns en <u>styr & utvecklingsgrupp</u> med representanter från de deltagande landstingen. Kontaktperson är <u>Sven Engström</u> Primärvårdens FoU enhet i Jönköping.

Anmäl din enhet för att få ett inloggningskonto

Klicka här om du vill veta mer om pykvalitet



Primärvårdens FoU-enhet www.lj.serfouenheten

eva.arvidsson@ltkalmar.se sven.engstrom@lj.se

pvkvalitet.se

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Here you both compari • The aim is to and improve We offer qua and rehabilita We will also p

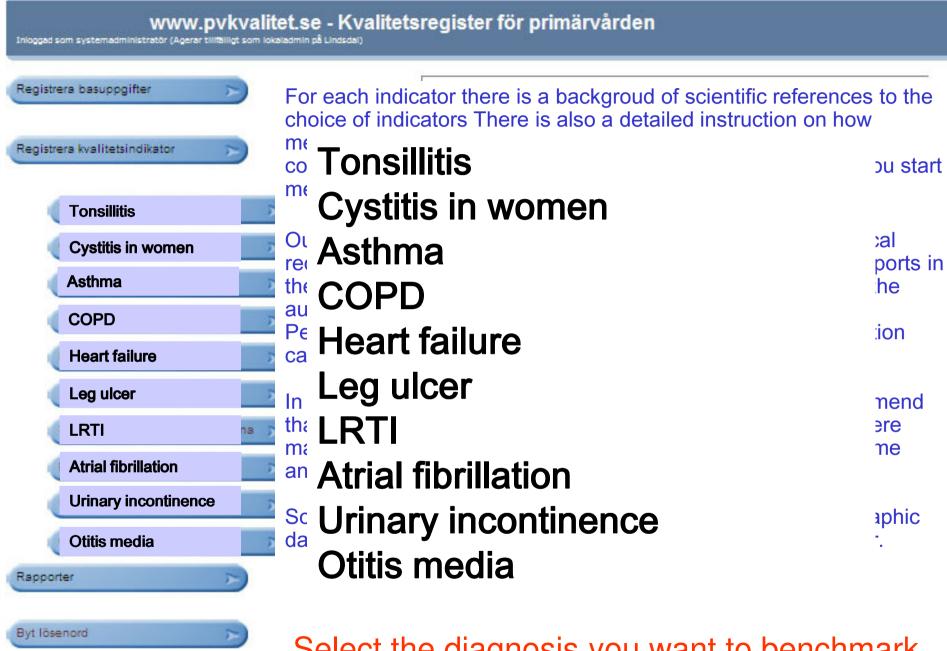
- Easy to use
 - Spend time improving quality not data registering!
 - analysis of a random sample of 40-60 patients
- Immediate feed-back

Det finns e Ko

Anmäl din enhet för att få

Klicka här om du vil

- Compare results
 - with guidelines
 - with other health centres
- Easy to follow results over time



Logga ut

Select the diagnosis you want to benchmark

inloggad som systemadministratör (Agerar tilffäligt som lokaladmin på Lindsdal)

Astma

Background

Criteria: What is important for good quality?

- 1. Att registrera diagnosen.
- 2. Rätt behandling.
- 3. Rätt uppföljning.

Indicators: What should be measured?

- Andel av befolkningen 20-74 år som har diagnosen astma.
- 2. Andel som har sökt akut/oplanerat för astma.
- Andel där rökning har dokumenterats på sökbart sätt.
- 4. Andel som har inhalationssteroid.
- 5. Andel com her kontrollerate med colometri.

Measurement method

- sok i datorjournalen ut en lista på alla patienter med minst ett besök meddlagnosen astma (345.-P) under de senaste 2 åren.
- 2. Granska journaler på ett slumpurval ur listan. 10-20 journaler per läkare eller totalt 40 per vårdcentral.
- 3. Notera på registreringsformulär.
 - a. Om det finns uppgift om att patienten s\u00f6kt akut/oplanerat f\u00f6r astma under de senaste 12 m\u00e4naderna. (Det som du kan ut\u00e4sa ur journalen, pavsett om de s\u00f6kt a\u00e4 VC/JC, sjukhuset eller n\u00e4oon annanstans).
 - b. Om rökning dokumenterats med sökord tobak/rökning/motsvarande) de senaste 2 åren eller att de sedan bidigare är "dokumenterade icke rökare".
 - Om patienten har inhalationssteroid.
 - d. Om patienter med inhalationssteroid har kontrollerats med spirometri under de senaste 24 månaderna.
- 4. Summera registreringsformuläret och mata in resultatet nedan.

Standards: What goals should we aim for?



Atte

Enhetagemensamma data

Ny registrering

www.puktralitet.se. Kralitetsreggster for primarvanden

Asthma

Background

Criteria: What is important for good quality?

- 1 Distriction of a second service

- 1. To register diagnosis
- Indicato 2. The right treatment
 - 3. The right follow-up
- L. Andelas Selektings
- Lindelider mining han godginementerets på stidten sådt.
- 4. Andelesam her inhelesamosterad
- The Sandal rooms four Constantianian manifestations

Measurement method

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- Granake topmalar på ett stomponal or fatan. 10-30 knornster per lettare etter totatt 40 per vårstentret
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Standards: What goals should we aim for?

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Asthma

Background

Critoria:

What is important for good quality?

- 1 100 molecular discussion
- 7 0 454 1 444 1 4

Indicators: What should be measured?

I - Angelau Sefaikonover IS-73 år sam her disancioer estme

- 1. Percentage of population aged 20-74 who have the diagnose asthma
- 2. Proportion who had emergency/unplanned visits for asthma
- 3. Proportion for whom smoking is registered in the records
- 4. Proportion treated with inhaled corticosteroids
- 5. Proportion who had a check up including spirometry

 Om rekning dokumenterata. 	med sciend baselt/fakting.	freezioni granida filipia y g	rana 1 dan s	
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4. Summera registreringsformuläret och mala in resultatet nedan.

Standards: What goals should we aim for?

Will perfect (Butter)

2011-01-01-12-31

Cost Value mater in ennets perfect ensure ceta.

Asthma

Background

What is important for good quality?

- Search for all patients with the diagnosis last year in digital records
- 2. Select a random sample of 10-20 patients/GP or nurse or 50-60/ health centre
- 3. Check in the patient records for answers to each indicator

Check in the selected sample of patients with asthma:

- Emergency/unplanned visits for asthma in primary care or at hospital in the last year?
- Smoking documented with the keyword tobacco/smoking in the last 2 years (or already "documented non-smoker")?
- Treated with inhaled corticosteroids?
- Had a check up including spirometry last 2 years?

٥/ حلما معلم المسلم المسلمان الملاب المسلم ا

Registration form för pvkvalitet.se Asthma

Patient	Emergency/ unplanned visits last year		unplanned Smokin registre			ave aled tico- oids	las	metry et 2 ars	Notes		
	Yes	No	Yes	No _	Yes	No	Yes	No _			
1											
2											
3											
4											
5											
6			•								
7				 No 	ote inc	dicato	ors in	the to	orm		
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34				• Qu	mma	rizo t	ho ro				
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www.pvkvalitet.se - Kvalitetsregister för primärvärden Astma Bakgrundsdokumentation Kirtherier Vac är viktibt för och kvaltet? átt registrera dispressan. 2 April uppföljning. Indikatorer Hur mats kvaltet? Andel av befolkningen 20-74 år som har diagnosen astma. Andel com har sökt akut/og/anerat för astma. 2. Ander där rökning har dokumenteratz på sökbart sätt. Andel com har inhalationssteroid. 5. Andel som har kontrollerats med spirometri Materiated. Hur to rade på hur vi lipper til? 1. Sik i datorjournaan ut en lista på alla patienter med minot ett paciók meddlagnosen astma (XIS-2) under de Crancia (cumpler of ett dumgunal ut listen. 10-00 (cumpler per distre eller totalt of per uthdoentre). Notera pli registratingsformula: a. Om det finns uppgift om att getlanten stillt ekutjoglanerat för astma under de sehaste sil månaderna. (Det zom du kan utiliza ur journalen, pavizett om de zökt gå VCCC zjuktuzet eller rågon annanztanz). Om rökning dokumenteratz med sökord tobak/rökning/motsvarande) de sanaste 2 Bran eller att de sacan didigare dir "dokumenterade icke rökere". Om gadlenten har inhalationssteroid. a. Om gatienter med inhalationasteroid nar kontrollerats med aghometri under de senaste 3d milinaderna. Summers registreringsformuläret och mate in resultatet neden. VSE gerted libbars Intelligence and deligence in the second Reporter Dipositor Date 2011-01-01-2011-12-01 District and received to the State for many Joan Britangamencamina data Ny regionaring Lycale Made by a dataautopinion; 100 millione of resolution desired - Kilming Salumer Land. -Investmentall singless

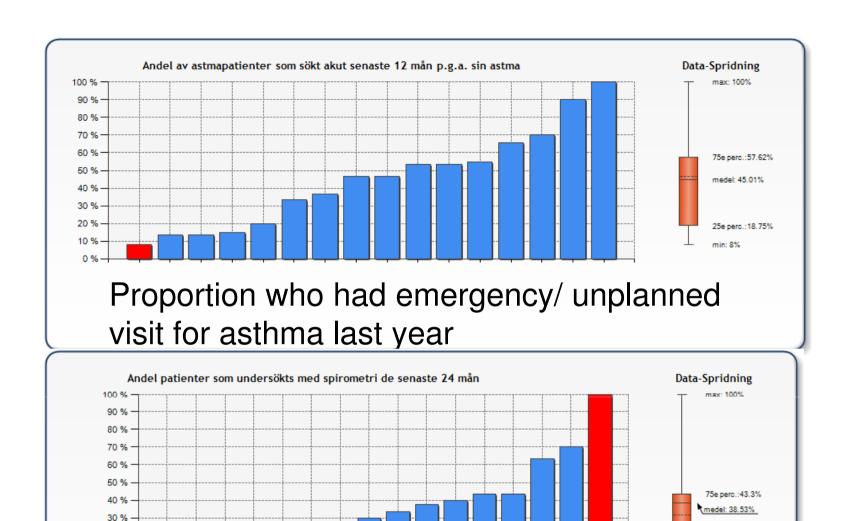
Background

Registration form

- Note indicators in the form for each sample patient
- Summarize the results

Input form

- Enter results into web form
- Feedback in 10 seconds



Proportion who had a check up including spirometry last 2 years

20 %

One click away every diagram has a background with references that motivates the indicator and the targets set.

25e perc.:26.42%

pvkvalitet.se in March 2012

- 310 Health Centres participating
- 50 000 patients reviewed

= 1200 local improvement projects supported!

These initiatives from GPs have had difficulties to get ecomomic support

Does not match the definition for a quality register.

- No personal identities registered and thus not possible to follow patients over time
- Aimed for improvement not for research.

2012 Governmental investment in quality registers

Increase in funding from 80 milj. SEK /year To 320 milj. SEK /year

A great project initited in primary care now had got funding..

Aims:

- Feedback adapted for the needs of practitioners in health care and of the stakeholders.
- Easy to deliver data from the medical record.
- No P4P
- People working in primary care must experience personal benefit from the register.

This creates motivation to deliver complete and true data for improvement and research

Feedback

- Benchmarking with ideals and other units.
- Capacity to allow users to chose data and presentations.
- Identification of your patients needing change in care.
- Opportunity to regain you own supplied data

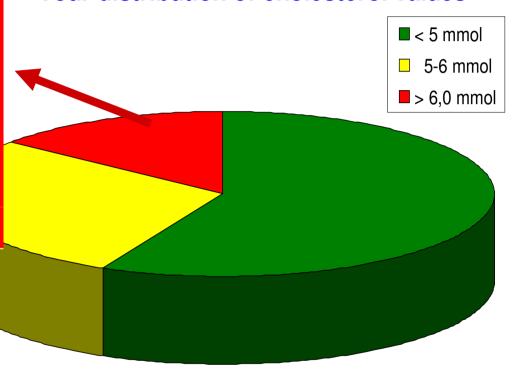
ADAPTED FOR USE IN ANY MEDICAL RECORD SYSTEM

abetes overview

	Ho	w do v	ve i	man	age				Your un	<u>it</u>	All Units	
Number of pati		ur pat	tien	its?		Goal attainment						
Estimated prev	alence 5-0 50-75	100				J						
Estir				/		HbA1c < 6,0	Antal		40	0/		07
		4 •				All	182		49	%		%
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					%	Tabl	86		42	%		%
	work 9				%	Insulin	28		25	%		%
	work?					Insulin + tabl	28		36			
Controls ma	de											
HbA1c		99,5	%	?	%	BT < 130/80	Antal					
ВМІ		95	%	?	%	All	170		58	%		%
BT		96	%	?	%	No antihypertensives	24		58	%		%
Cholesterol		57	%	?	%	With antihypertensive	e 124		37	%		%
TG		53	%	?	%	,						
Mikroalb		55	%	?	%	LDL < 2,5	Antal	Fotalanta	I			
Rettinal exam	after 20000101	27	%	?	%	All	36	182	20	%		%
Waist		7	%			<all td="" tested<=""><td>36</td><td>95</td><td>38</td><td>%</td><td></td><td></td></all>	36	95	38	%		
Foot exam.		65	%	?	%	without lipid lowers	10	61	16	%		%
Tobacco		70	%	?	%	without lipid lowers	24	80	30	%		%
Physical activit	ty	64	%	?	%							
/ % with comp	olications					4117	4	128	16	%	?	%
lschemisk hear		16,4	%	?	%	⋖ What happe	ns to	.20			•	
Cerebrovaskulär Dis. 8,2 %			?	%								
Retinopathi	2701	19	%	•		our patient	C 2					
Loss of vision		1	%	?	%	our panem	.					
Amputation		0	%	?	%							
				-								_

Patients with choles	sterol > 6,0	
	Cholesterol	Lipid lowering drugs
19XXXXXX-XXX	6,6	
19XXXXXX-XXX	6,1	х
19XXXXXX-XXX	6,7	х
19XXXXXX-XXX	6,2	х
19XXXXXX-XXX	6,3	х
19XXXXXX-XXX	6,8	
19XXXXXXX-XXX	7,2	х
19XXXXXXX-XXX	6,1	
19XXXXXXX-XXX	6,4	х
19XXXXXX-XXX	6,9	х
19XXXXXX-XXX	7,8	х
19XXXXXXX-XXX	6,3	
19XXXXXX-XXX	6,2	

Your distribution of cholesterol values



Which patients need change of care What's to do?



PERSWA		Λόγ,			Sufonuing	Gli _{laziones}					Anu HT	KOLESTER.	401.404.87F	TG.FD CAQL.D	Liblosin.	MO? "STEINERIN	1084K
		Man	5,2				Ja	24,03	120	55		4,2	2,2	0,88			lcke-rökare
		Kvinna	6,2				Ja	36,3									lcke-rökare
		Kvinna	4,9				Ja	28,11	135	85		5,9	4	0,74			lcke-rökare
		Man	11,2		Ja		Ja	25,68	125	70		5,6	3,7	1,2			Rökare
		Man	7,9	Ja	Ja				155	80	Ja	4,6					Uppgift saknas
		Man	5,7				Ja		115	75		4,8	3,3	1,3			lcke-rökare
		Kvinna	6,1				Ja	26,47	134	80		5,6					lcke-rökare
		Man	7,2				Ja	31,24	150	90		5,5	3,4	2,2			lcke-rökare
		Kvinna		Ja	Ja		Ja	31,4	120	70		4,1	2	2,4			Rökare
		Man	5,8				Ja	35,67	160	90		4,9			Ja	Ja	Fd rökare
		Kvinna	7,5	Ja			Ja	33,21	160	80		4,8	2,4	2,6	Ja	Ja	Uppgift saknas
		Kvinna	6,6				Ja	35,14	145	85		3,6	1,9	0,59			Rökare
		Man	6,4				Ja	36,07	155	85							Rökare
		Man	6,5				Ja	34,77	140	70		5,2	3,1	2		Ja	lcke-rökare
		Man		Ja			Ja	34,02	120	58		4,3			Ja	Ja	Uppgift saknas
	58	Man	5,9	Ja	Ja		Ja	38,2	140	80		4,5		2,8			lcke-rökare
		Kvinna	4,9				Ja	28,3	135	60		5,7	2,7	2,8		Ja	Fd rökare
		Kvinna	7,3				Ja		150	80		4,4	1,3	3,9		Ja	lcke-rökare
		Kvinna	5,6				Ja	37,84	160	80					Ja	Ja	Fd rökare
		Kvinna	6,6				Ja	26,39	155	80		4,4	2,4	0,58			lcke-rökare
		Kvinna	5,9				Ja	40,16	115	50		5,4	2,7	1,9			lcke-rökare
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	67	Kvinna	4,9	Ja			Ja	28,86	160	50		4,5	2,2	1,5	Ja		lcke-rökare
	70	Kvinna	6,2				Ja	42,19	170	90		6,5	3,7	2			lcke-rökare
	71	Man	5,6				Ja	28,77	160	90	Ja	5,4	3,5	3,1			Rökare

An idle dream in a country where health care is managed by 21 autonomous counties?