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Making IT work for you:

Hospital Discovery through a Business Discovery solution.





Content

- Information for decision making right information, right time, right format
- How many computer systems do you have that you don't use in decision making?
- Using the data
- Business Intelligence and Business Discovery
- Some results
- Conclusions





Right information, right time, right format.

- What information do managers need to make informed decisions?
 - Correct information
 - When they need it
 - ♦ In a format that is usable
- Different needs from the Board of Directors to the ward manager
- What about clinical staff should doctors and nurses have access to information too?







How many IT systems do you have?

Patient Administrative System (PAS)

Electronic Patient Record (EPR) > 100mill records

Radiology (RIS / PACS)

Adverse Event reporting

Lab system

Document Management System

Electronic Correspondence Archives

Specialist Clinical Systems

Food Ordering

Buildings maintenance

Medical Equipment Technology (MET)

Personnel management Financial management



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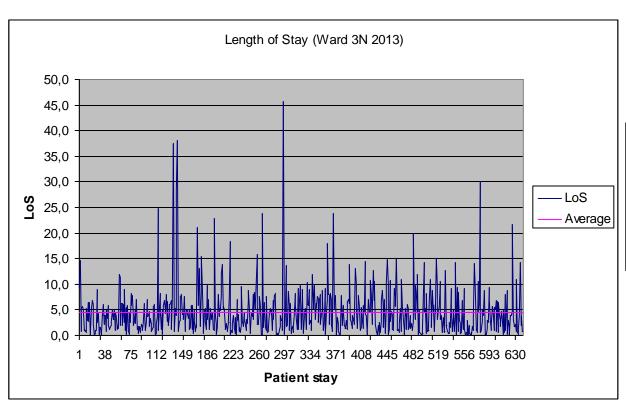
Using the data?

- Reporting upward and outward
 - Aggregated and summarised information
 - ♦ Financial information
- Pitfalls
 - Quality of the data
 - Definition of the data
 - ♦ Timeliness
- Averages and medians vs. individual cases and variation
 - ♦ Statistical Process Control (SPC)

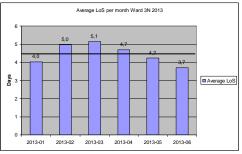




Averages vs. variation



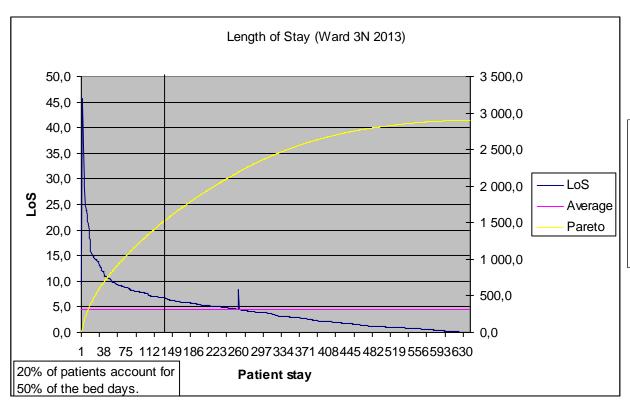
Average LoS = 4.5 days



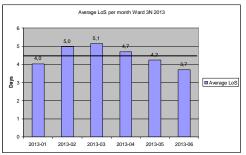




Averages vs. variation



Average LoS = 4.5 days

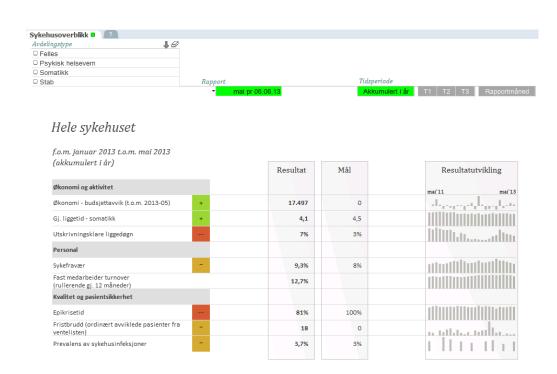






Business Intelligence and Business Discovery

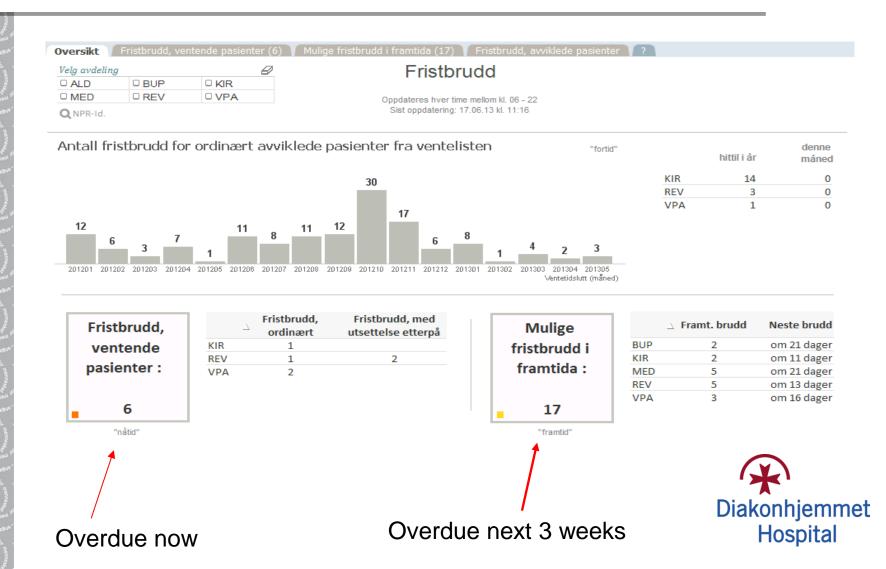
- Business Intelligence
 - ♦ Dashboards
 - Looking backwards
 - Averages
- Business Discovery
 - ♦ Interactive dashboards
 - Looking forward
 - ♦ Cases







Looking ahead – on time delivery of care





On time – per patient

Oversikt Fristbrudd, ventende pasienter (6) Velg avdeling				Mulige fristbrudd i framtida (17) Fristbrudd, awiklede pasiente Mulige fristbrudd i framtida Oppdateres hver time mellom kl. 06 - 22 Sist oppdatering: 17.06.13 kl. 11:16						Velg fristbruddtype □ Ordinær □ Utsettelse etter frist		Skriv ut Skriv ut 17 tbrudd 0		
Mulige fri:	stbrudd i fi NPR-Id.	ramtida Mottatt	(17) Frist	Dager til frist	DiagGrp.	Seksion	Lok.	Post	Planlagt	Klokkeslett	Dokkofalao	Avsluttmåte	Utsettelse	Hint
KIR 1			28.06.13	til frist	Melan/mistank om melanom(Rett/2u)	Generell-	STEIN	POST	oppmøte	Nokesiett	Remeijige	(kontakt)	Otsetteise	Intet planlagt oppmøte. Frist er om 11 dager.
REV 2	11022603	04.06.13	30.06.13	13		REV MED	STEIN r-pol		05.06.13	09:30	1	Ordinært avsluttet (avsl.: 05.06.13)		Ventetid sluttdato er ikke satt (behandleren bestemmer).
						REV MED REV BHL	STEIN r-pol		05.07.13	09:00	2			NB: Planlagt oppmøte er etter fristen!
						REV MED REV BHL	STEIN r-pol		05.07.13	09:30	3			NB: Planlagt oppmøte er etter fristen!
						REV MED REV BHL	STEIN r-pol		??.08.13	tent.	4			NB: Planlagt oppmøte er etter fristen!Tentativ dato. Frist er om
REV MED STEIN ??.09.13 tent. 5													NB: Planlagt oppmøte er etter fristen!Tentativ dato, Frist er om	
REV 3	2020 a602	14.06.13	30.06.13	13		REV MED	STEIN r-pol		14.06.13	13:00	1	Ordinært avsluttet (avsl.: 14.06.13)		Ventetid sluttdato er ikke satt (behandleren bestemmer).
REV 4	ou x01	03.06.13	01.07.13	14	m/leddhev - m/inflamm (Rett/4u)	REV MED	STEIN r-pol		11.06.13	14:10	1	Ordinært avsluttet (avsl.:		Ventetid sluttdato er ikke satt (behandleren

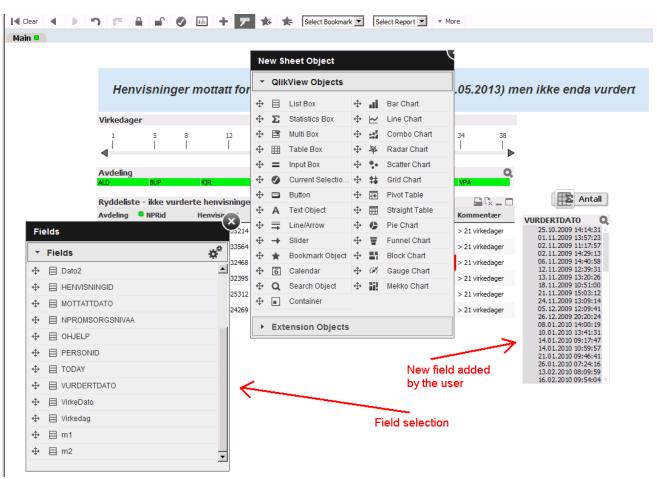
Unfortunately NO direct link to the PAS/EPR ⊗





Business Discovery

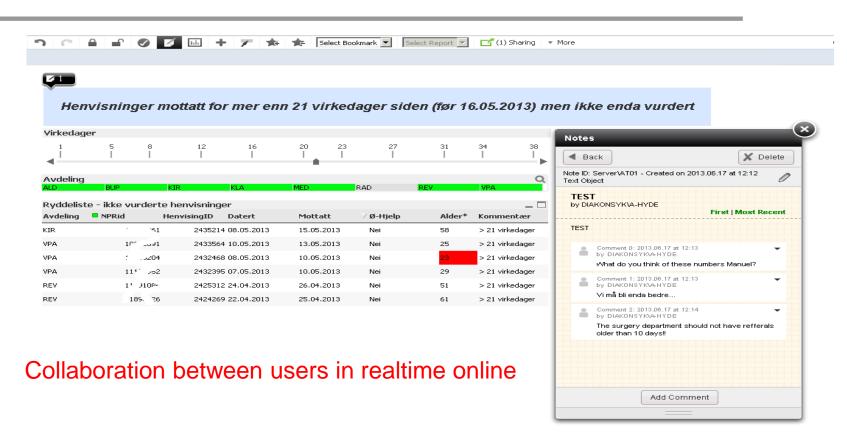
What do you need to know that you didn't know you needed to know?







Collaboration







A method for using Business Discovery

- Rapid cycle PDCA (Lean / Action Research)
 - ♦ Hypothesis what is the problem?
 - Implement a change
 - ♦ Did it work?
 - ♦ Yes carry on doing it
 - ♦ No try something else

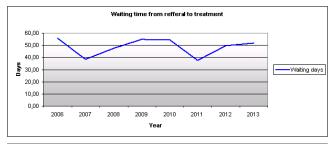


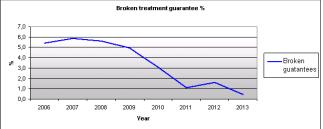
Collaboration with the people doing the work, i.e. front line workers meeting the patients.
 Only they understand the problem and the value of finding a solution.

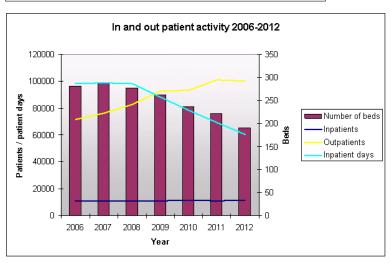


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Results







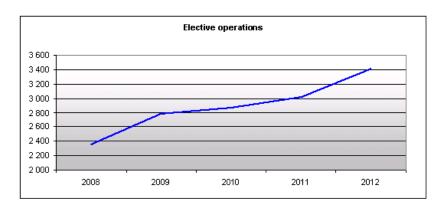
Consistently low waiting times for treatment and low rate of guarantee breaks through focus on variation in a process that should be stable.

Reduced number of beds
Constant number of inpatients but..
Reduced numbers of inpatient days
Increased number of outpatients

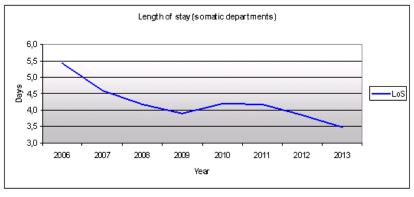




Results



40% increase in OR throughtput



Reduction in Length of Stay in the somatic departments





Conclusions

- We use data not just for reporting but for analysis and looking forward
- We focus on variation and not just averages
- We (can) use ALL the data we have in our computer systems
- We have discovered things we didn't know, not always pleasant things either.....
- We have improved our processes to the benefit of the patients
- · Next is to apply the same methods to patient treatment and improve outcomes

Questions?





Thanks

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