

WENNBERG INTERNATIONAL COLLABORATIVE SPRING POLICY MEETING 2018

FROM HEALTH CARE ATLAS TO POLICY AND GOVERNANCE TOWARDS REDUCED VARIATION AND IMPROVED QUALITY

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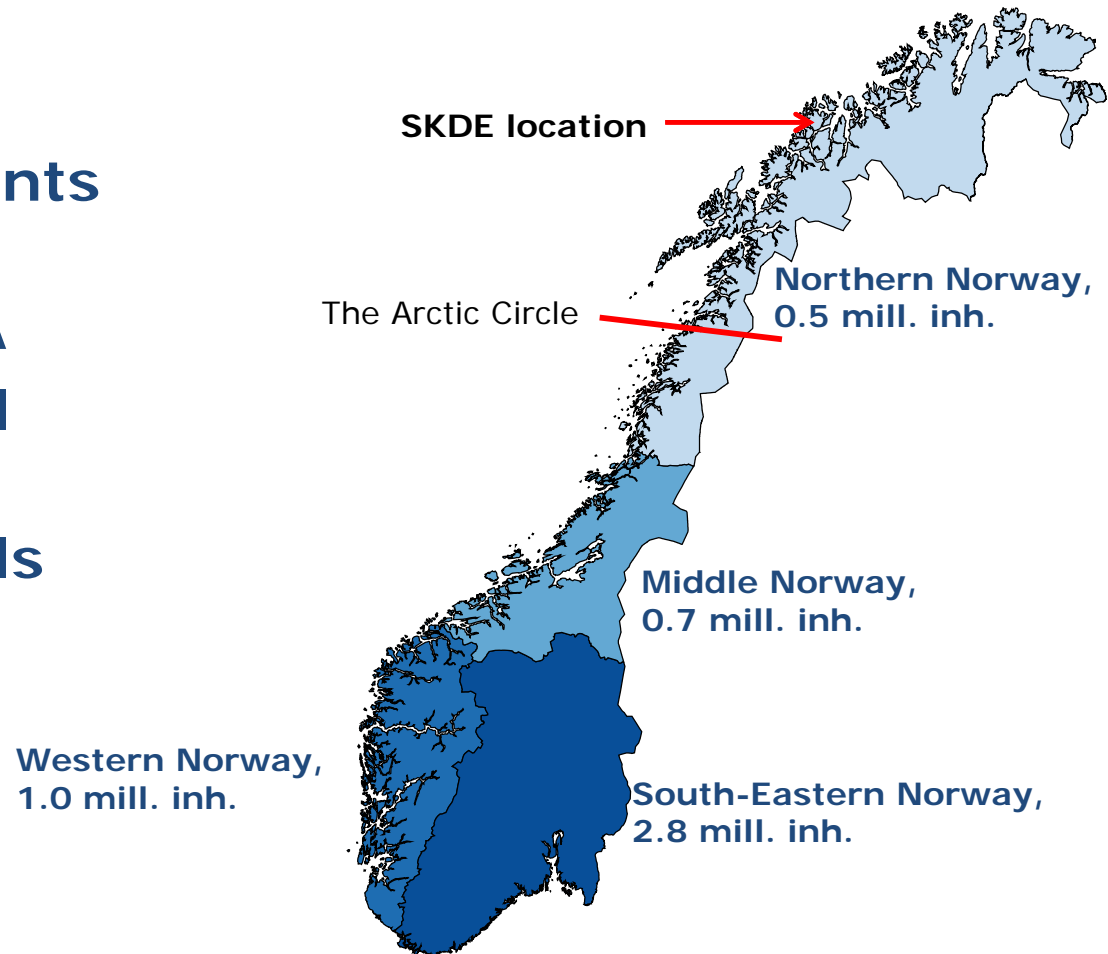


Smarter Health Care
National Research Programme



NORWAYS HEALTH CARE SYSTEM AT A GLANCE

- 5 million inhabitants
- 4 regional health authorities – RHA
- 19 public hospital trusts - HT
- 50 public hospitals



Equitable health services – regardless of where you live?

The Norwegian healthcare atlases compares the population's use of health services using interactive maps, reports and fact sheets.



COPD HEALTHCARE ATLAS, 2013-2015



INTERACTIVE MAP



REPORT



FACT SHEETS



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ELDERLY HEALTHCARE ATLAS, 2013-2015



INTERACTIVE MAP



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NEONATAL ATLAS, 2009-2014



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CHILD HEALTHCARE ATLAS, 2011-2014



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DAY SURGERY ATLAS, 2011-2013



INTERACTIVE MAP



REPORT



FACT SHEETS



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www.helseatlas.no/en

Why health atlas in Norway?

- **Health care is mainly publicly funded**
- **Broad political consensus** about equal access to health services in Norway - regardless of living area, gender, age...
 - Universal health care system
- **Analysis of small area variation – a powerful approach to study over- and undertreatment**
 - Brownlee et al, Evidence for overuse.....Lancet 2017
 - Glasziou et al, Evidence for underuse Lancet 2017
 - Saini et al, Drivers of poor medical care.... Lancet 2017
- **Aim for the Norwegian Atlas project**
 - Reveal unwarranted variation
 - Engage clinicians, politicians and management
 - Hopefully stimulate change in clinical practice in Norway

Published health atlases

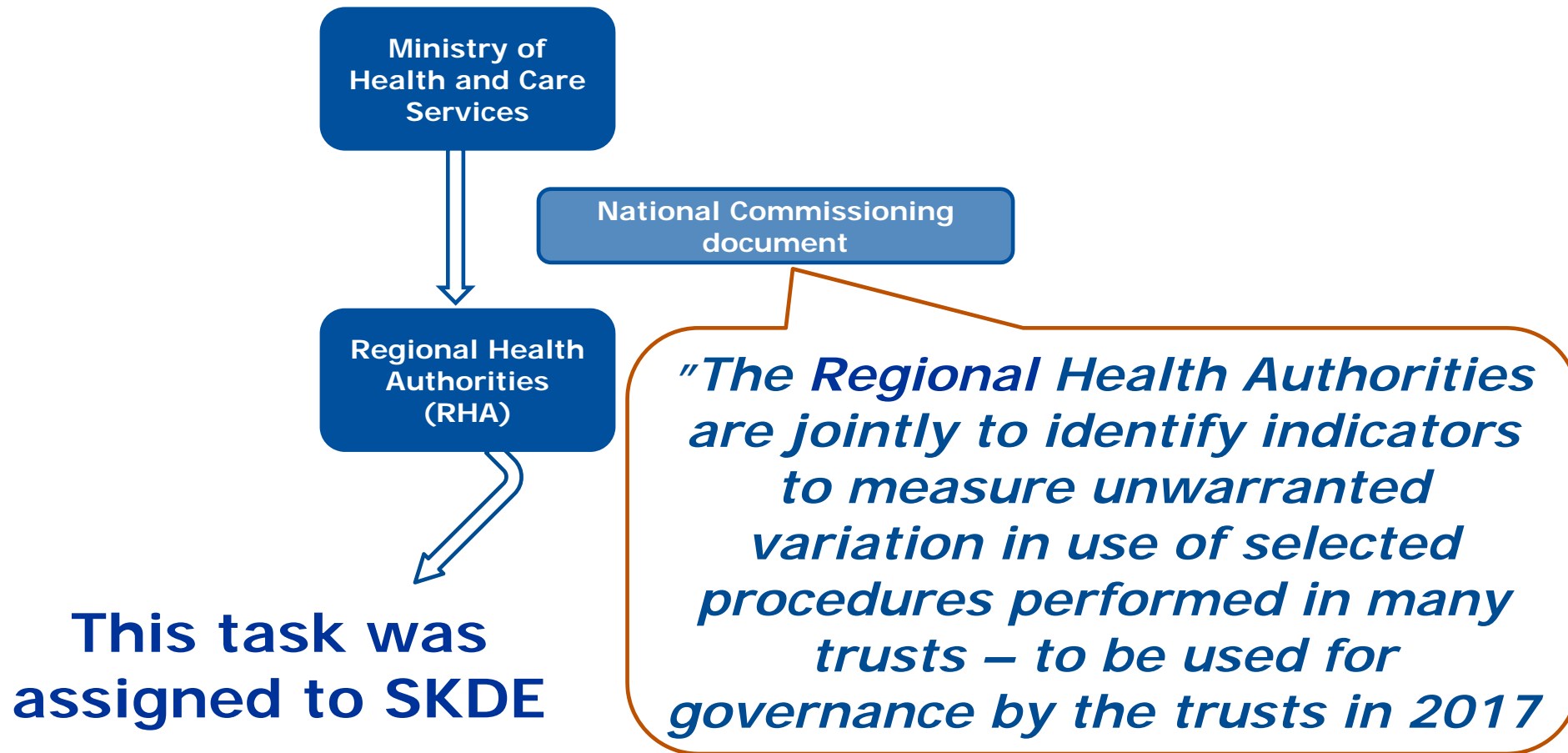
- **January 2015: Day surgery** atlas published
- **January 2015:** The national pediatric association suggested a **child health atlas** which was published in **September 2015**
- **December 2016: Neonatal treatment** atlas published using data from a national quality register
- **June 2017:** Atlas over **Health care for the elderly** published
- **September 2017: Chronic obstructive pulmonary disease** atlas published
- **Fall 2018:** Planned update of Day Surgery atlas and Womens Health care atlas

Political statements following public focus on health atlas results in Norway

Minister of Health Bent Høie:

“The extensive variation in the Norwegian health services is sign of system failure”

What happened in 2016?



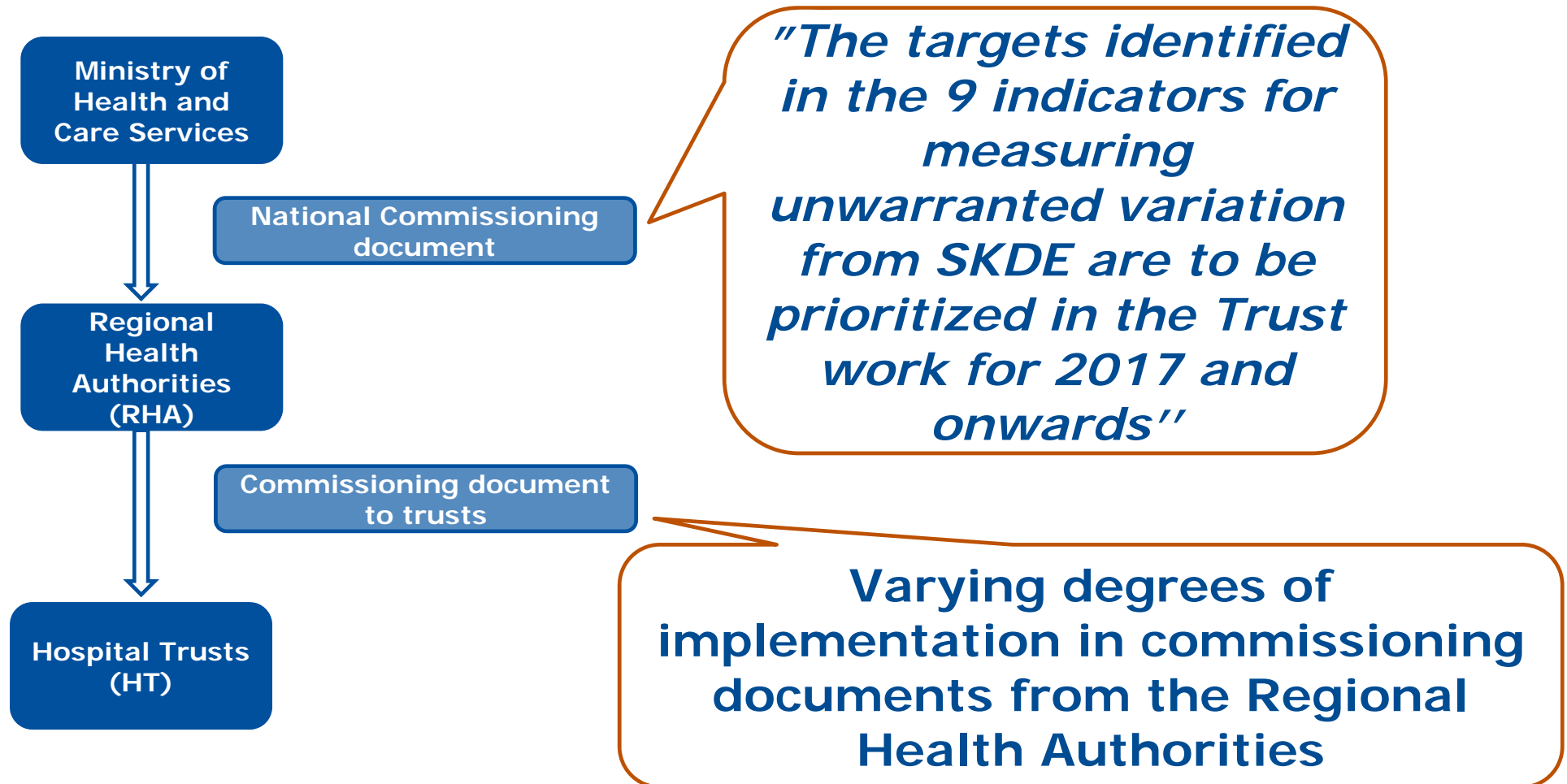
9 national clinical indicators – strategy and process

- We identified core procedures with available national data, with sufficient volume and relevance for professionals, patients and politicians
- Registry leaders of clinical quality registries were assigned as key stakeholders in this process to ensure legitimacy, comprehensiveness, quality and clinical relevance

Recommended indicators for governance towards reduced variation

- 9 indicators within 5 clinical fields recommended by SKDE
 - Myocardial infarction:
 - Revascularisation within recommended time for STEMI patients (30 min/90 min)
 - Angiography within 72 hours for NSTEMI patients
 - Stroke:
 - Min. 90 % of stroke patients to be admitted in stroke units
 - Thrombolysis within 40 minutes of admittance
 - Breast cancer – > 80 % breast conserving surgery
 - Hip and knee prosthesis – assigned national production targets
 - Hip fracture – surgery within 24/48 hours

What happened in 2017?



Example: Systematic follow-up on regional variation: The Western Regional Health Authority

Example - Highlighted indicators by the Western Regional Authority:

Treatment	Bergen HT	Stavanger HT	Fonna HT	Førde HT	Haraldsplass hosp.
Proportion of STEMI patients < 80 years revascularized within recommended time (30 min. thrombolysis, 90 min. PCI) GOAL: > 50 %	Hospital trust referral area: 45 % Hospital: Haukeland UH 42 % Voss hosp. n<10	Hospital trust referral area: 21 % Hospital: Stavanger UH 17 %	Hospital trust referral area: 11 % Hospital: Haugesund hosp. Odda hosp. n<10 Stord hosp n<11	Hospital trust referral area: 14 % Hospital: Førde hosp. n<10 Lærdal hosp. n<10	Hospital trust referral area: 45 % Hospital: Haraldsplass hosp. n<10
Proportion of NSTEMI patients < 80 years examined by coronar angiography within 72 hours GOAL: > 50 %	Hospital trust referral area: 57 % Hospital: Haukeland UH 65 % Voss hosp. 42 %	Hospital trust referral area: 48 % Hospital: Stavanger UH 48 %	Hospital trust referral area: 38 % Hospital: Haugesund hosp. 35 % Stord hosp. 39 % Odda hosp. n<10	Hospital trust referral area: 43 % Hospital: Førde hosp. 38 % Lærdal hosp. 44 %	Hospital trust referral area: 57 % Hospital: Haraldsplass hosp. 37 %

- Each trust was assigned to identify 3-5 indicators for follow-up and potential practice adjustment

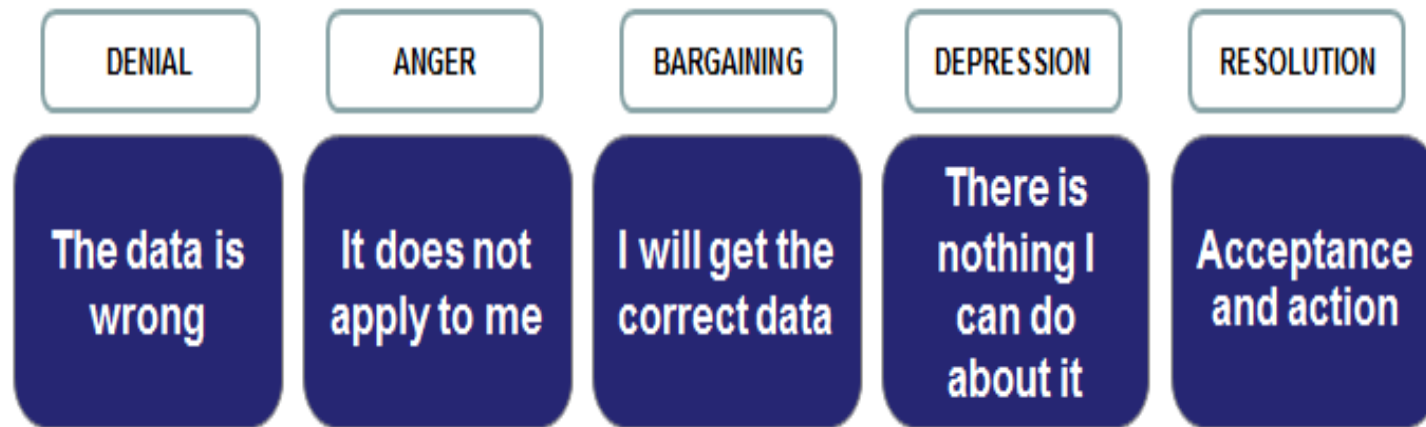
Trust's follow-up on selected topics

- Identify possible causes of high or low use of healthcare services or poor quality
- Evaluate whether the trust's deviating health care service level is unwarranted or explainable
- Establish quality improvement projects on unwarranted variation and low quality of health care services

What happened?

The grieving process -

...some clinicians will lack the expertise to interpret data in detail and some may respond defensively...



After the Kubler Ross bereavement cycle

[with thanks to Simon Swift – East Midlands Quality Observatory]

Examples of responses related to the “grieving process”

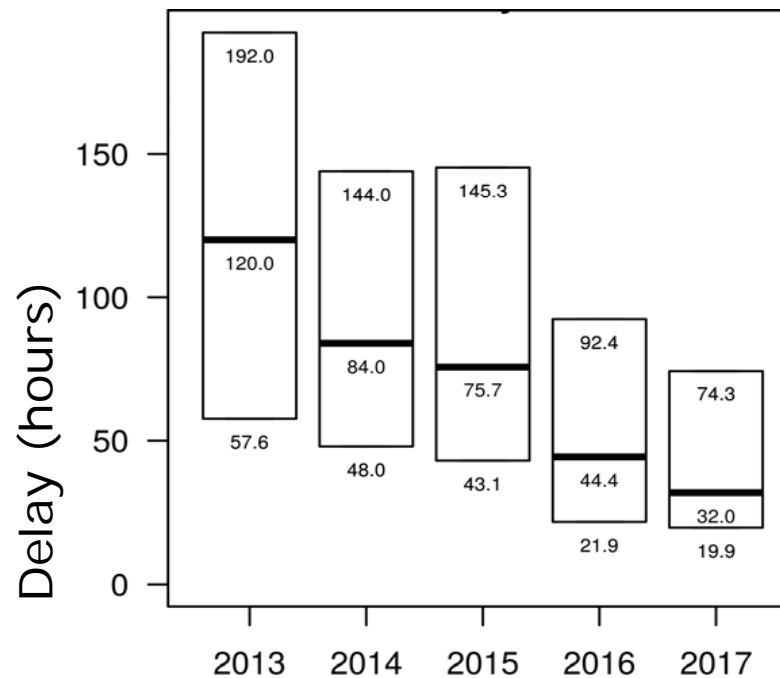
- On data:
 - “the data are too old – we have already changed”
 - “the data is wrong – we have different figures”
 - “the coverage of the quality registry is too low”
 - “the patient-mix and age of population is different in our referral area”
- On organization:
 - “we have a different internal organization in our hospital”
 - “in our referral area, we have private providers with deviating indications”

But something happened - Response from the hospital trusts:

- Example from Stavanger HT
 - Highest rate of newborns without infection given antibiotics in Norway (GA \geq 37 weeks)
 - Quality improvement project to ensure right use of antibiotics in newborns
 - Median use of antibiotics within 6 months reduced from 1.4 % to 0,4 % of premature patients without infection
 - Project ended and implemented in regular service

Example from Bergen HT

- Too few patients with NSTEMI myocardial infarction at Haukeland UH examined by angiography within 72 hours in



Example from Bergen HT

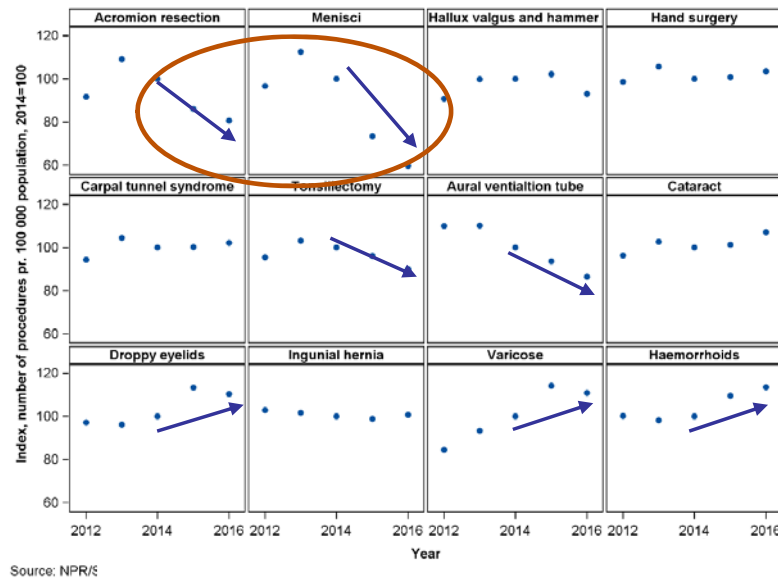
- 54 % of hip fracture patients had surgery within 24 hours – National average 65 %
- Action plan to reduced time to surgery for hip fracture patients:
 - Increased attention among clinicians on hip fracture patients
 - Hip fracture patients planned as first afternoon patients
 - Narcosis rather than spinal anesthesia for patients using anticoagulants (to avoid postponed surgery after medication)

Example from Førde HT

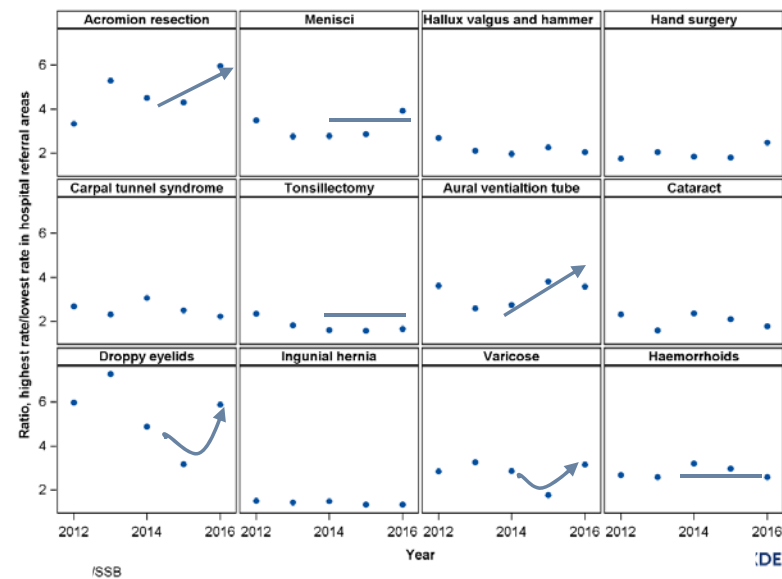
- Førde HT had the highest national appendectomy rate 2011-2014
 - To evaluate potential overuse, all cases in the period were examined
 - Acute appendicitis were histologically confirmed for 88.5 % of the patients
 - The trust concluded that the high rate was adequate and warranted

Update day surgery – change “without governance”

Number of operations



Ratio of variation



- “Dramatic” reduction where suspected overtreatment
- No obvious relation between changes in volume and ratio of variation over a time period

What have we learned?

- Health atlases have been instrumental in engaging the Ministry of Health
- Documentation of unwarranted variation does not alone lead to desired change
- A combination of “top down” governance and professional engagement can be instrumental in leading to desired change
- Updated and “flawless” data is a prerequisite for professional acceptance of status

What have we learned?

- “Flawless” data with obvious contrasts can inspire professions if presented wisely – but it takes time and requires persistence
- The future might be bright – in Norway:
 - The Choosing Wisely campaign has engaged the professional community widely – a “bottom up” movement is emerging.

Thank you for your attention!



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