

Highly variable and complex care

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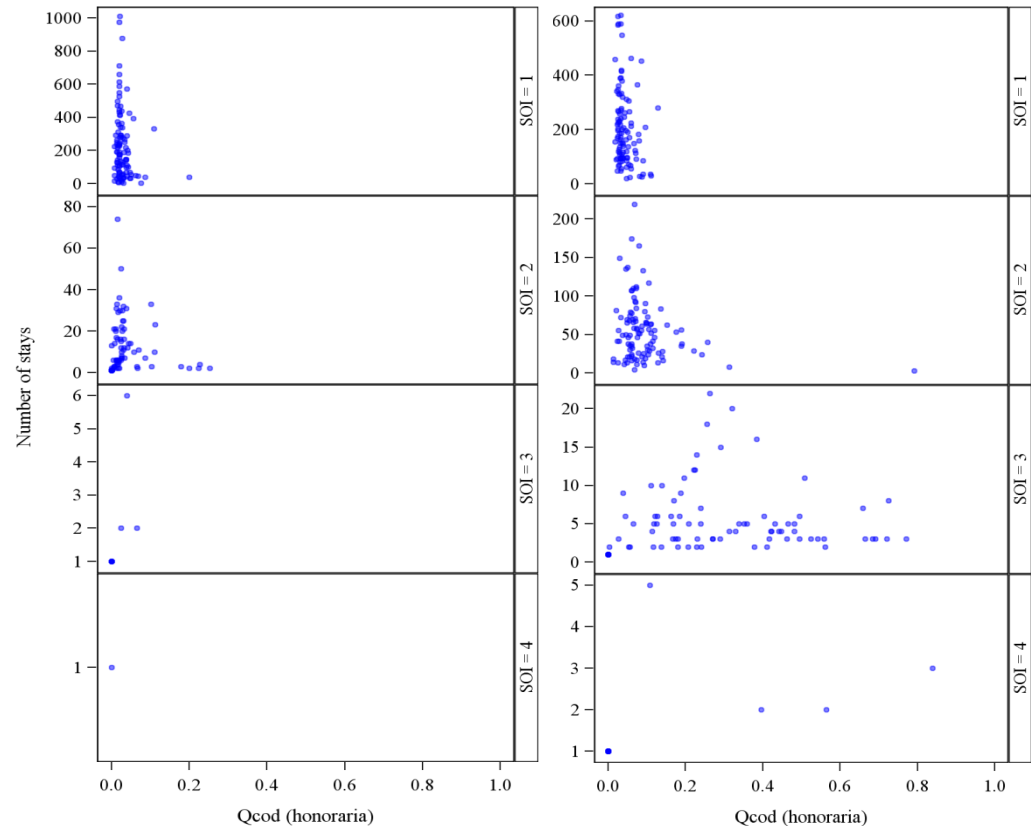
ARMB-KAGB, 7 october 2017



- Definition
- Outcome of hospital care
- Role of AMC

APR-DRG 228 : Inguinal, femoral & Umbilical Hernia Procedures

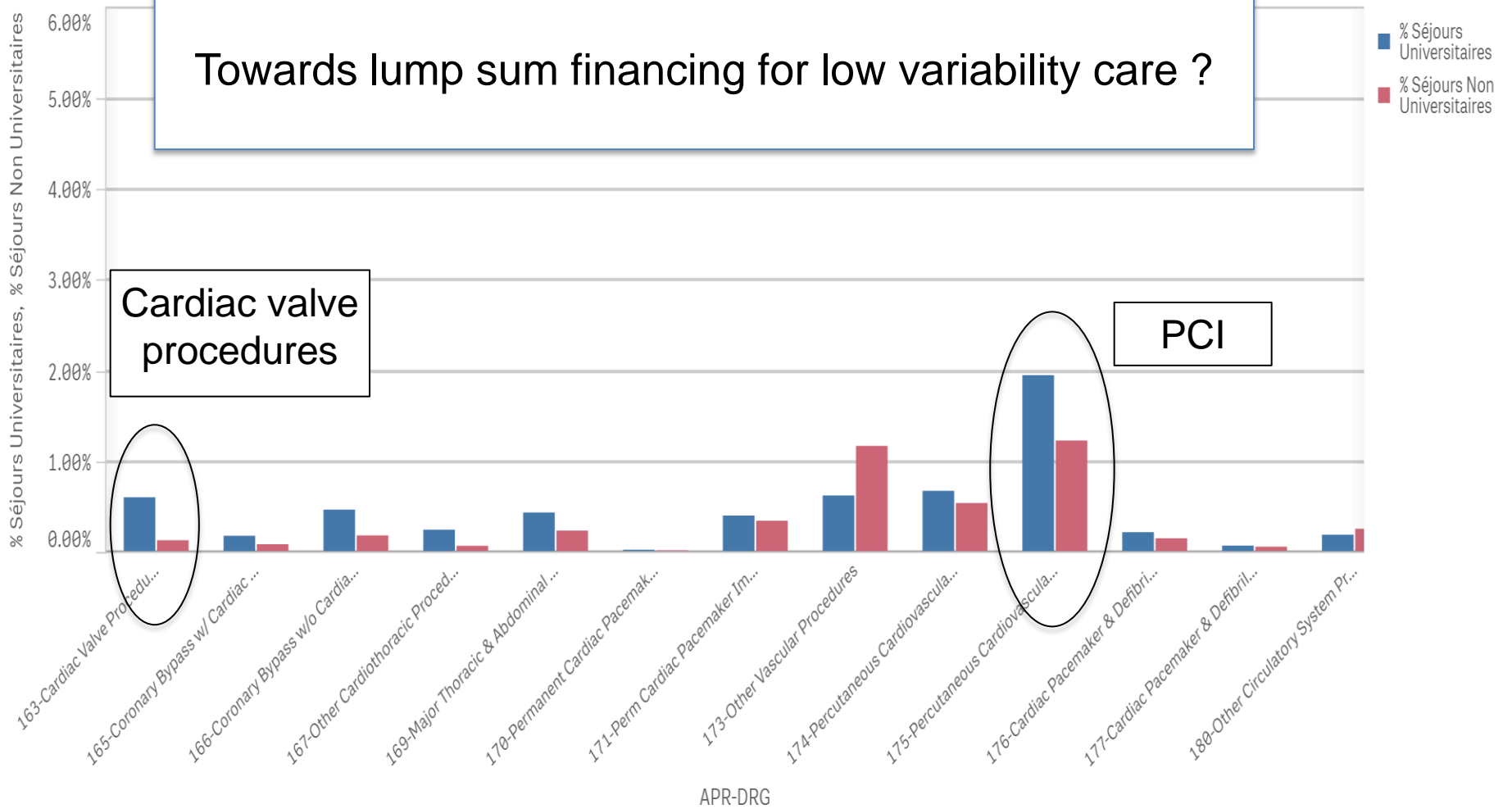
Inter- and intra-hospital variability



Qcod = coefficient of
quartile dispersion
 $(Q3-Q1)/(Q3+Q1)$

VARIABILITY OF CARE

Towards lump sum financing for low variability care ?



Cardiac valve procedures

PCI

APR-DRG

Variable definitions in literature :

- Patients undergoing highly complex interventions
eg pancreatic, esophageal or thoracic oncological surgery

versus

- Complex care patients :
eg elderly patient with multiple chronic conditions and dementia

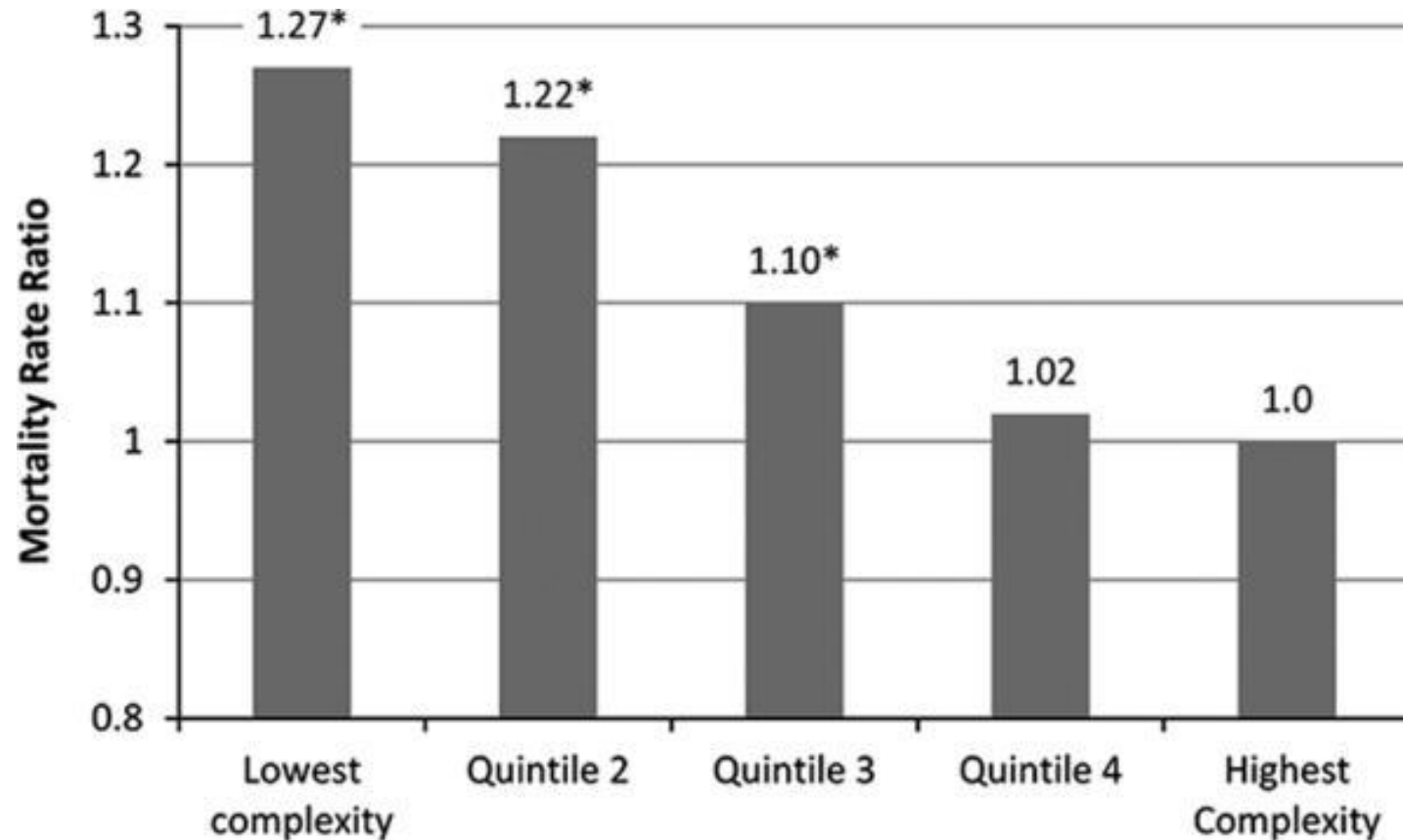
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ASSOCIATION BETWEEN TEACHING STATUS AND MORTALITY IN US HOSPITALS

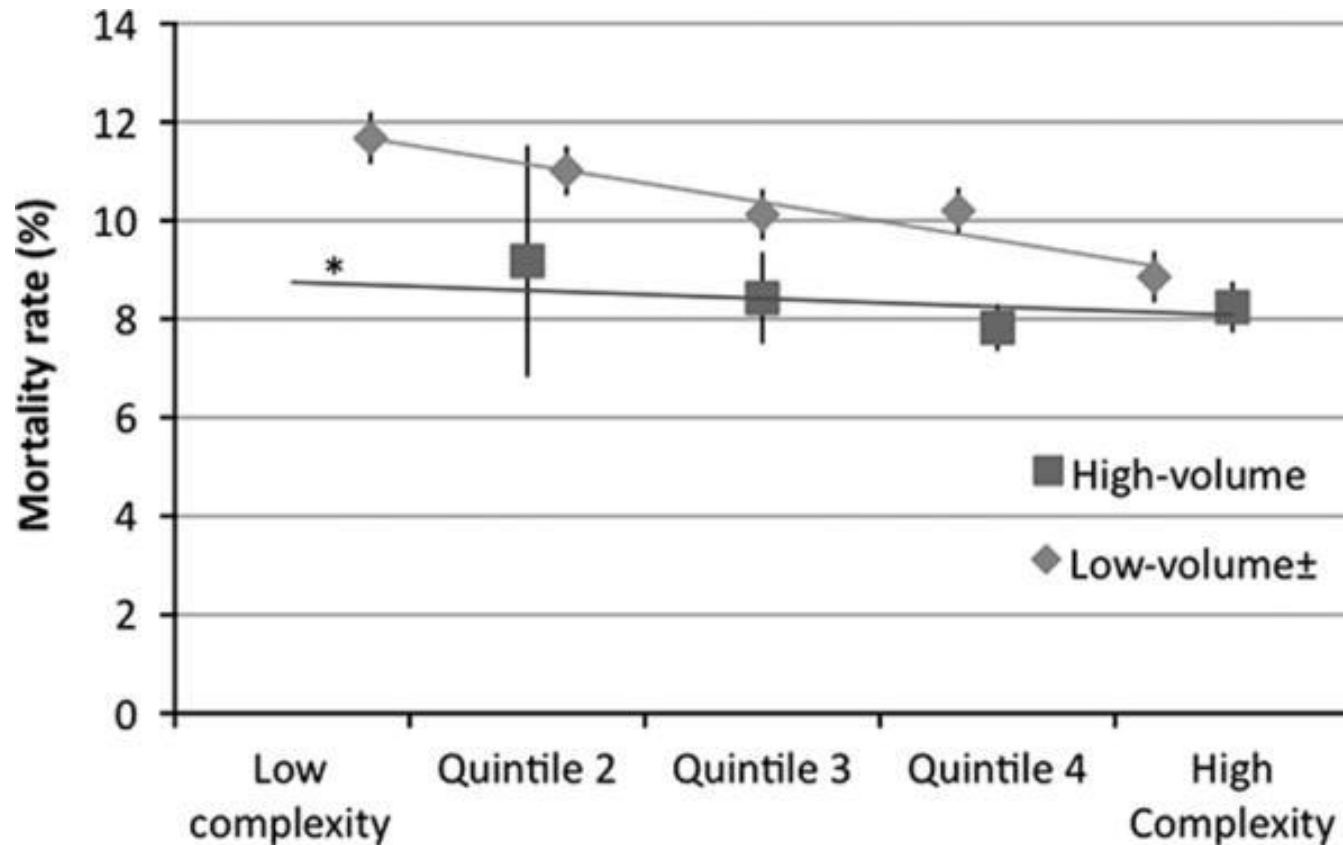
30-d mortality (%)	Major teaching	Minor teaching	Nonteaching	<i>P</i> value
All hospitalisations	8.3	9.2	9.5	< 0.001
Medical conditions	11.0	11.6	11.9	< 0.001
Surgical procedures	3.3	3.8	4.0	< 0.001

Burke ea, JAMA 2017;317:2105-2113

BEYOND VOLUME : DOES HOSPITAL COMPLEXITY MATTER ?

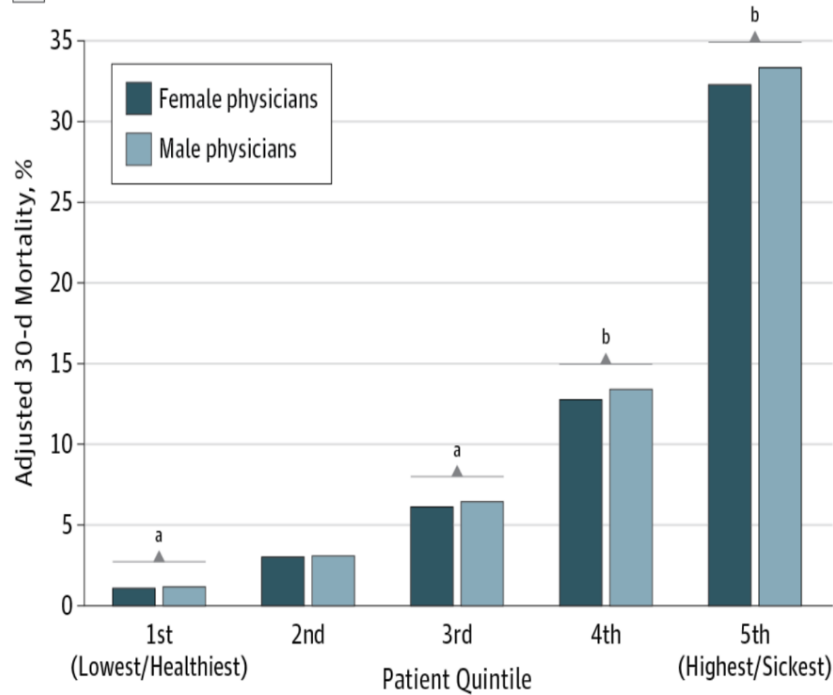


Effect of increasing hospital complexity on mortality rates at low- and high-volume hospitals

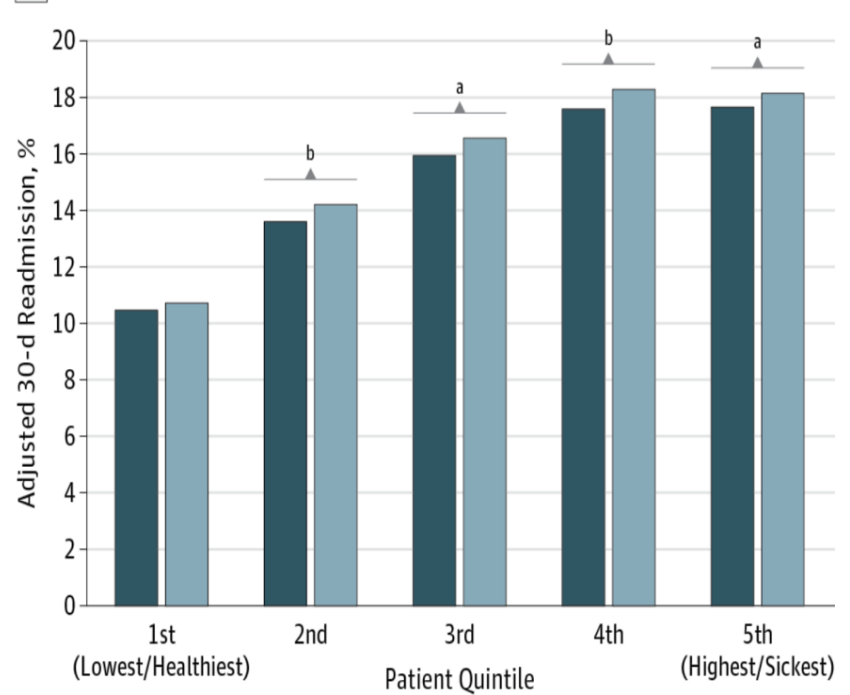


COMPARISON OF HOSPITAL MORTALITY AND READMISSION RATES FOR MEDICARE PATIENTS TREATED BY MALE VS FEMALE PHYSICIANS

A Adjusted 30-d mortality rates



B Adjusted 30-d readmission rates



Major determinants ?

- Multidisciplinary approach
 - Importance of physician contracts (salary-based) ?
- Degree of surgical team (sub-)specialisation
- Implementation of innovations
- Adherence to EBM / scientific guidelines

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- To fulfill requirements for high-quality in-hospital care for complex patients
 - Importance of scale
 - => Central position in « hub and spoke » hospital landscape
- To fulfill requirements for a high-quality approach to complex care patients
 - Leading role in development of integrated patient centered care models for chronic conditions