Bonnie

A Clinical Quality Measure Testing Tool

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MITRE

The Office of the National Coordinator for
Health Information Technology

CMS
CENTERS FOR MEDICARE & MEDICAID SERVICES
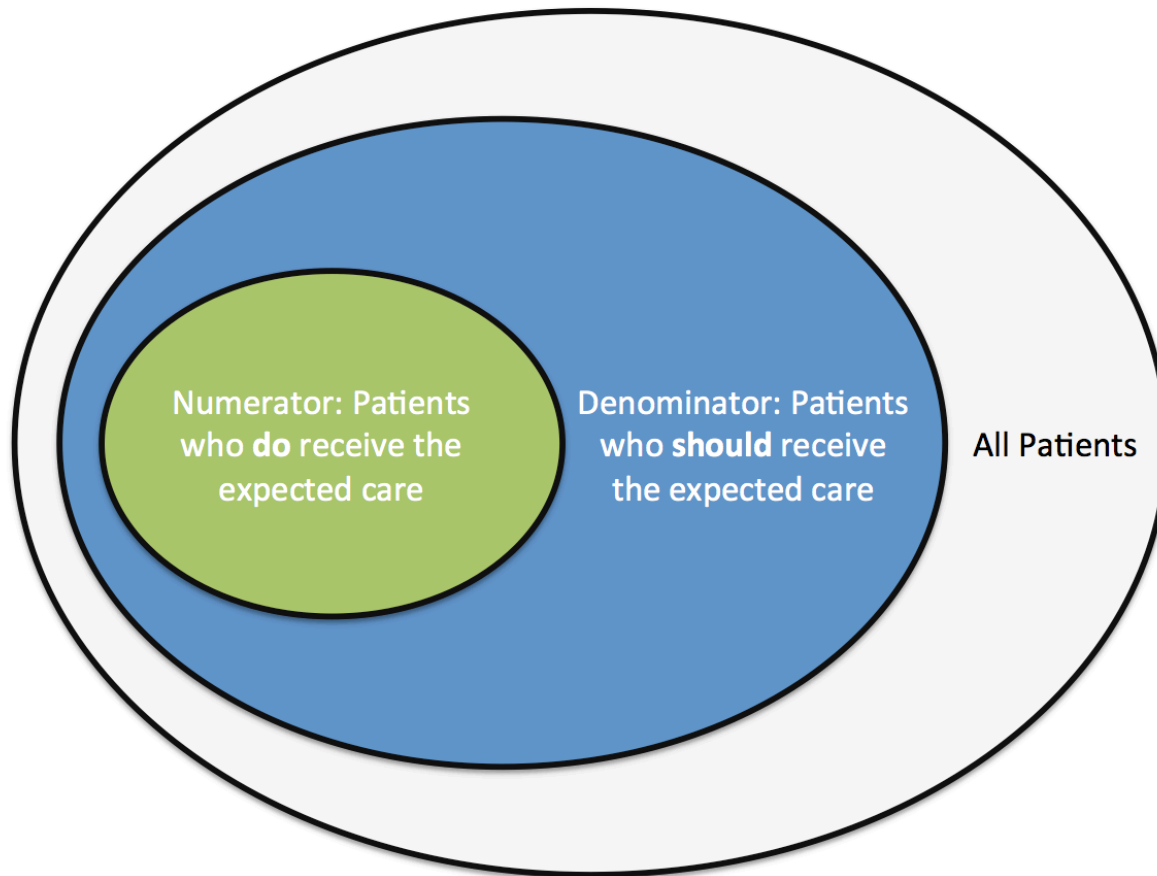
Clinical Quality Measures

- **Health Care Reports**
- **Measure provider delivery of standard of care to patients**
- **Electronic specification: eCQM**
- **Combine logical statements with clinical concepts**

Numerator: Patients who **do** receive the expected care

Denominator: Patients who **should** receive the expected care

All Patients

History

- **The process of Measure Development has been grueling:**
  - Does the measure logic capture clinical intent?
  - Lots of subtleties: timing, operator precedence, etc.
  - Hundreds or thousands of lines of logic
  - Every release is manually reviewed

Tooling

- **Better tooling is needed**
  - Understand what you're building
  - Don't test and review entirely by hand
- **Bonnie helps with both**

Demo

Delivery

- **Went live April 1st, 2014**
  - 778 users, about 210 actually testing measures
  - Over 1,500 measures loaded
  - Over 8,500 test patient records created
  - OFMQ, The Joint Commission, Mathematica, HHS, etc.

Final Notes

- **Open source**
- **http://bonnie.healthit.gov/**