WENNBERG INTERNATIONAL COLLABORATIVE
SPRING POLICY MEETING 2018

REGIONAL OUTCOME EVALUATION PROGRAM (P.RE.VAL.E.): REDUCTION OF INEQUALITY IN ACCESS TO EFFECTIVE HEALTH CARE IN THE LAZIO REGION OF ITALY (2012-2015)

Marina Davoli Zurich, 13 April 2018

WIC WENNBERG INTERNATIONAL COLLABORATIVE
74 NRP Smarter Health Care National Research Programme
SSPH+ SWISS SCHOOL OF PUBLIC HEALTH
DEP Lazio Department of Epidemiology Lazio Regional Health Service, Italy
SISTEMA SANITARIO REGIONALE ASL ROMA 1
REGIONE LAZIO

NATIONAL HEALTH SERVICE (NHS) UNIVERSAL COVERAGE

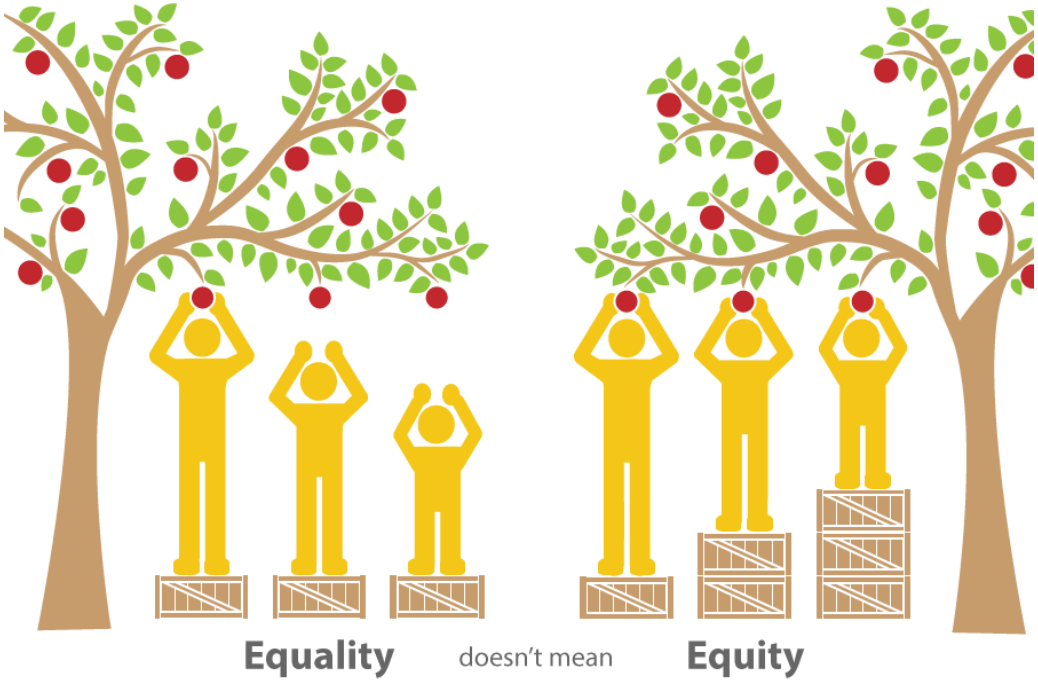
- Guidelines and standards by central government
- Managed by regions and local health authorities

5,500,000 inhabitans

10% of the Italian population

BACKGROUND

Reduction of health care inequalities is one of the major challenges for a NHS



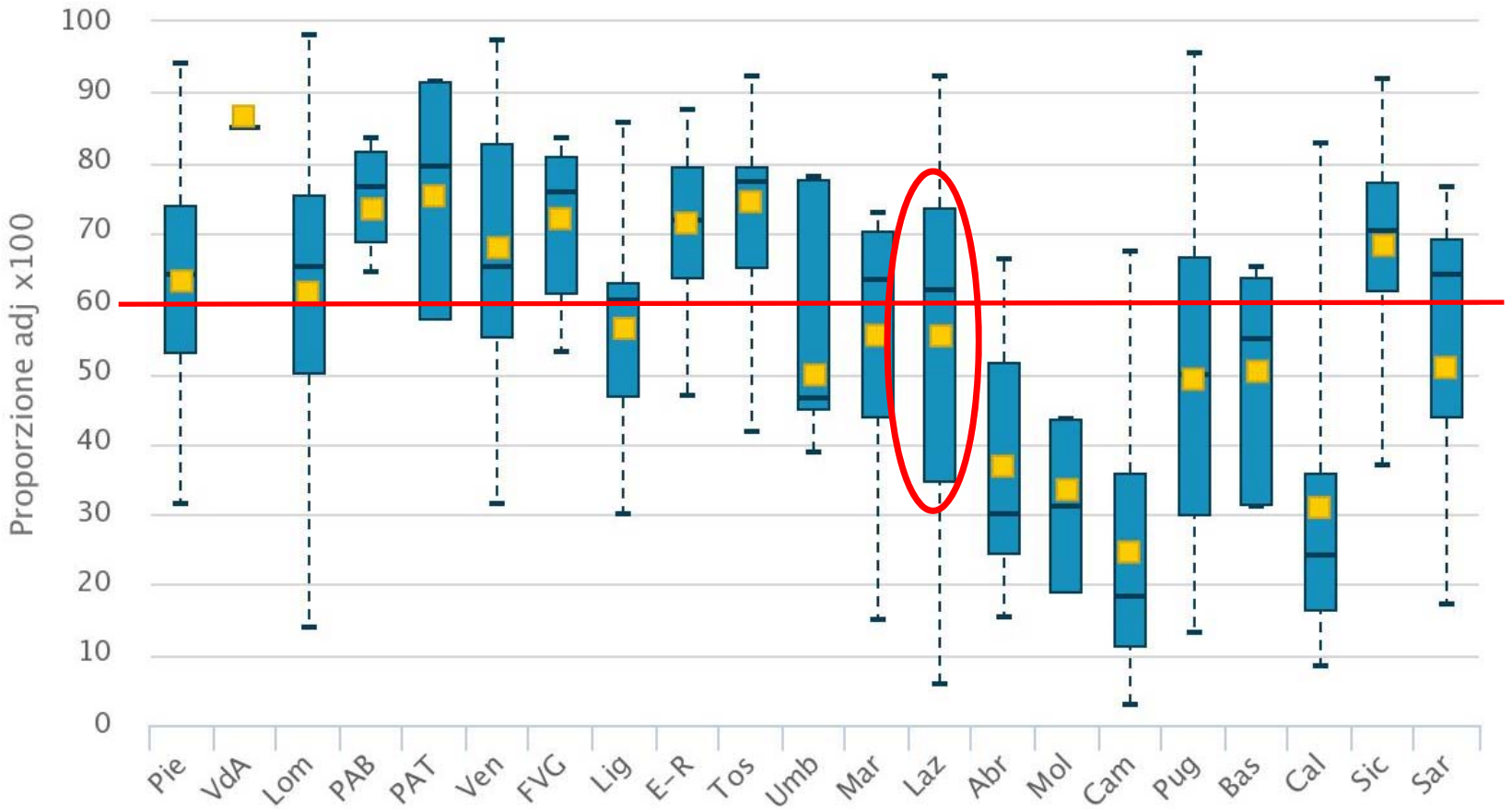
Equity

Health status and risk factors
Access
Quality
- efficacy
- appropriateness
Outcome

The National Outcome Evaluation Programme measures the outcome variability among providers and/or health care local units in Italy….

HIP FRACTURE: SURGERY WITHIN 2 DAYS. ITALY 2012

HIP FRACTURE: SURGERY WITHIN 2 DAYS PNE ITALY 2016



SPECIFIC AIM OF THE STUDY

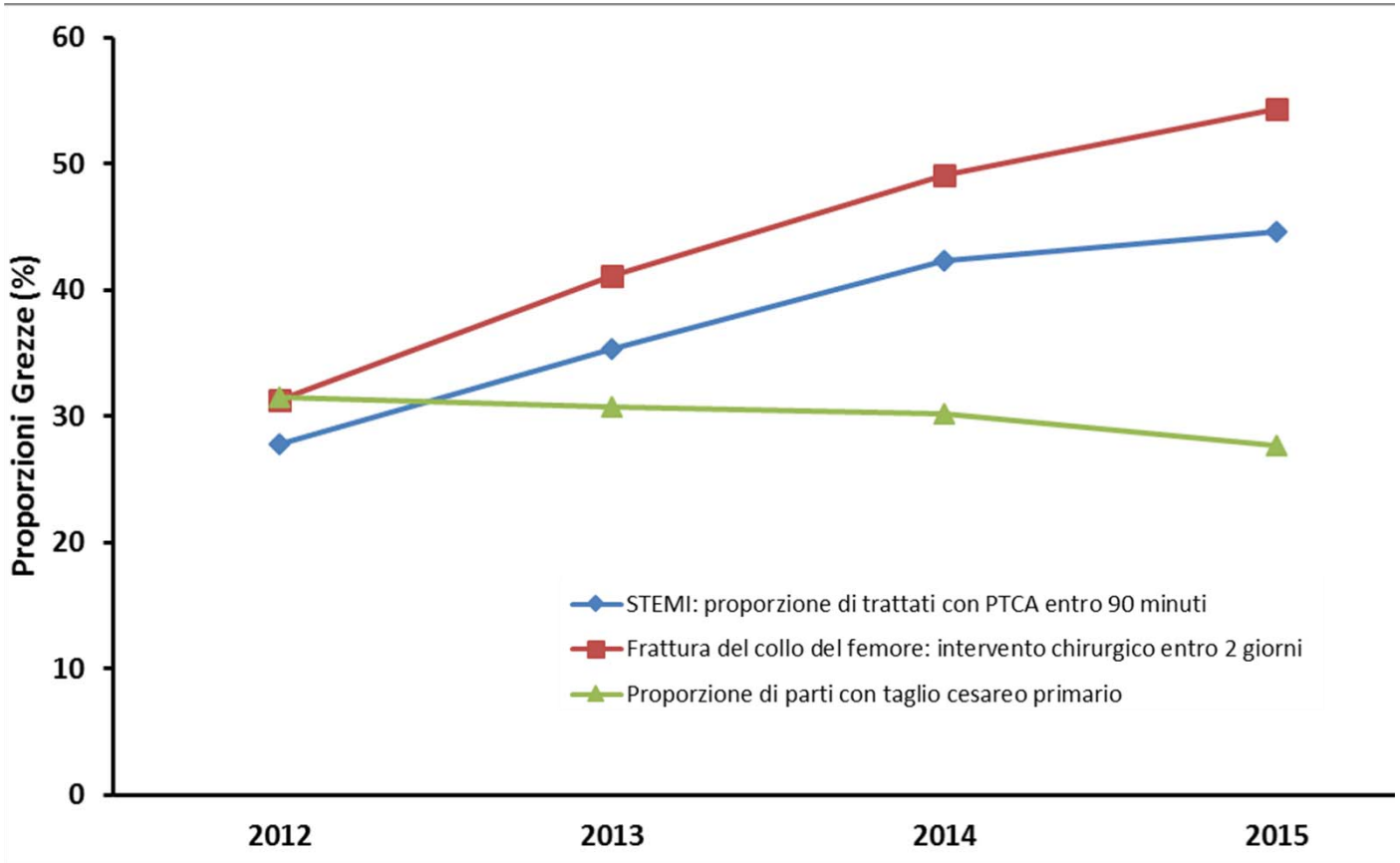
To measure if the overall quality imrovement was associated with a reduction of inequalities by educational level between **2012** e il **2015**.

INDICATORS

1. STEMI: % primary PCI (within 90 min)
2. HIP FRACTURE: % surgery within 2 days
3. DELIVERIES : % primary cesarean sections

budget/mandate AIMS OF CEOs since 2013

TEMPORAL TREND OF OUTCOME INDICATORS



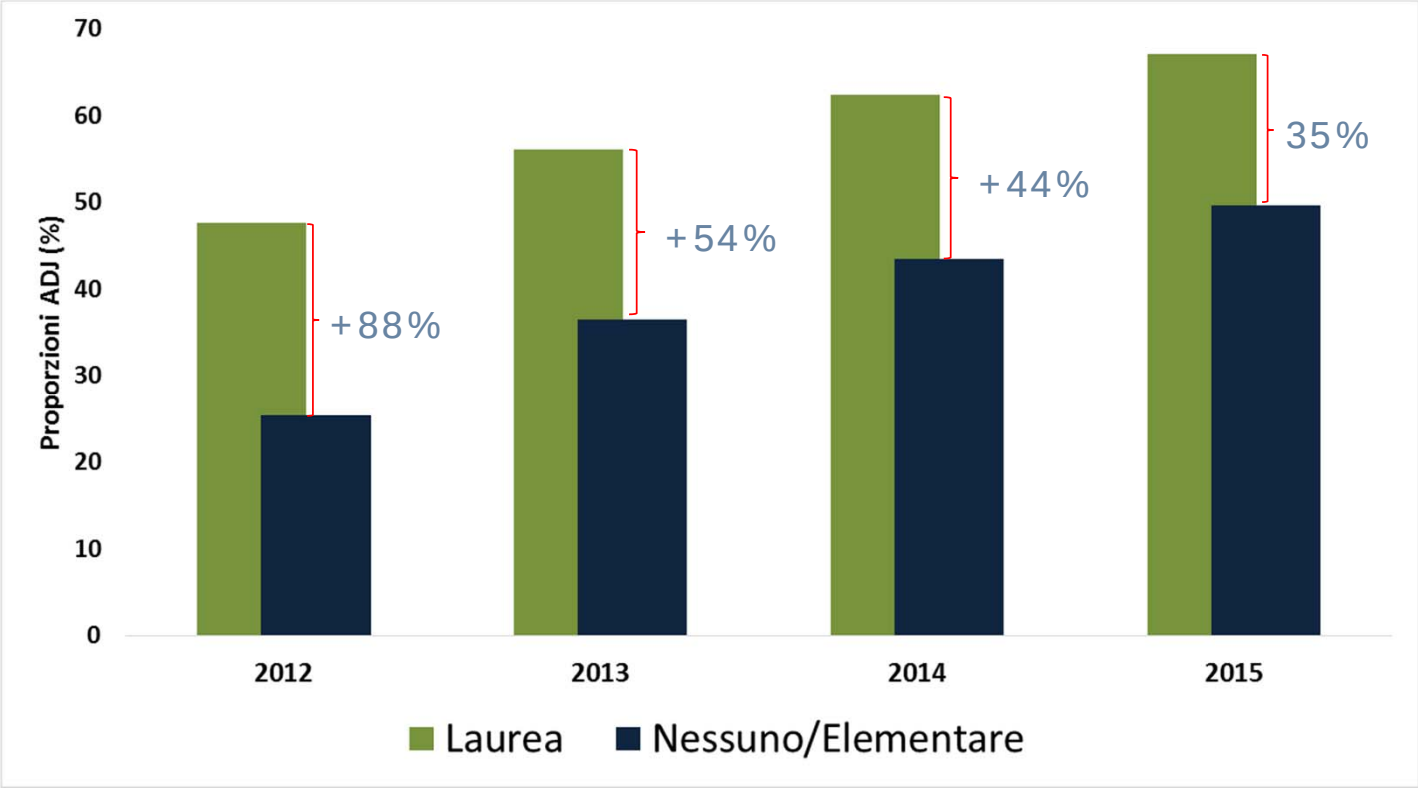
STATISTICAL ANALYSIS

For each indicator:

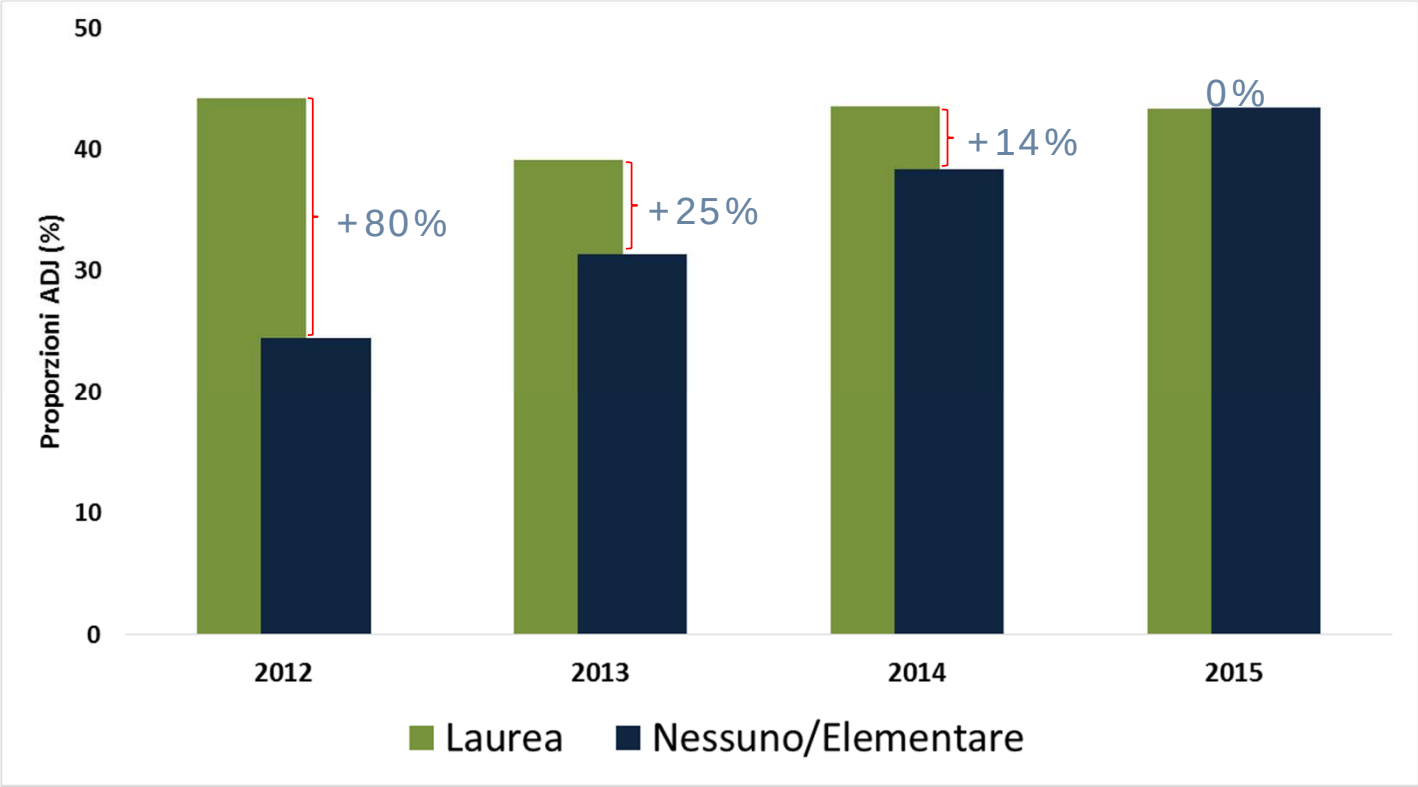
- Multiple regression models → adgiusted proportion by gender, age, severity and comorbity (P.Re.Val.E. metodology*)
- Analisys with interaction by calendar year - 2012-2015
- Comparison of adjusted proportions persons with high educational level (laurea/degree) and low (none or elementary)

**Fusco D et al, BMC Health Serv Res. 2012*

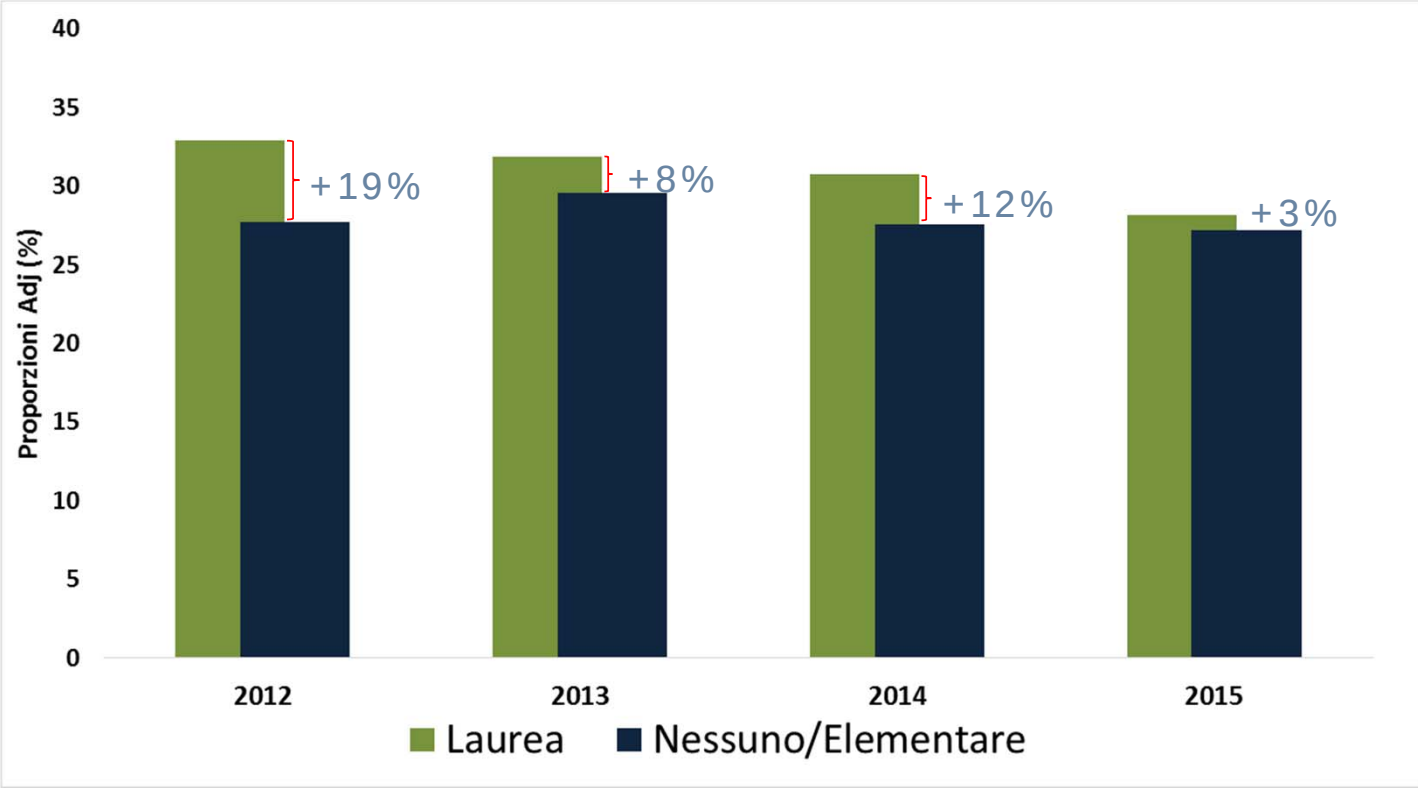
HIP FRACTURE: SURGERY WITHIN 2 DAYS EDUCATIONAL LEVEL HIGH (DEGREE)/LOW (NONE/ELEMENTARY). LAZIO 2012-2015



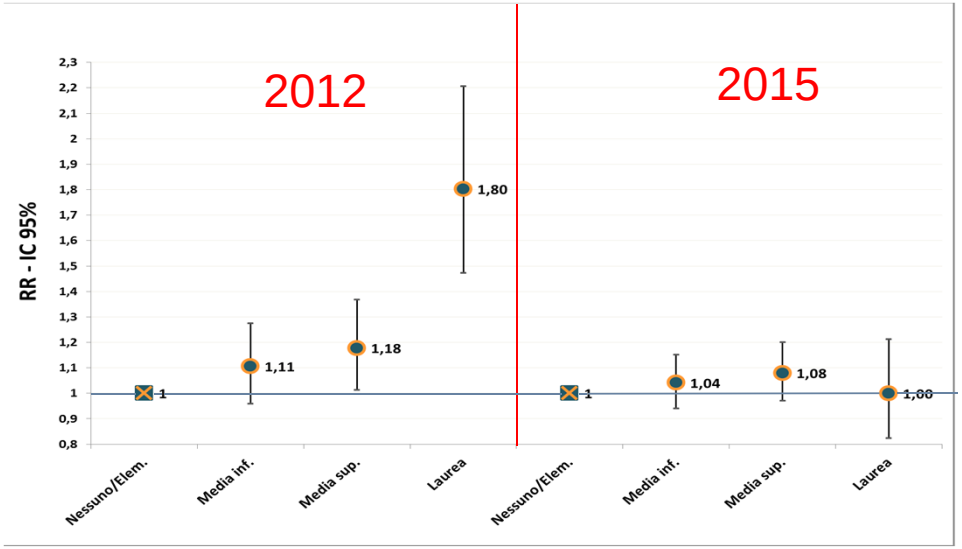
STEMI: ADJ % PRIMARY PCI (WITHIN 90 MIN) EDUCATIONAL LEVEL HIGH (DEGREE)/LOW (NONE/ELEMENTARY). LAZIO 2012-2015



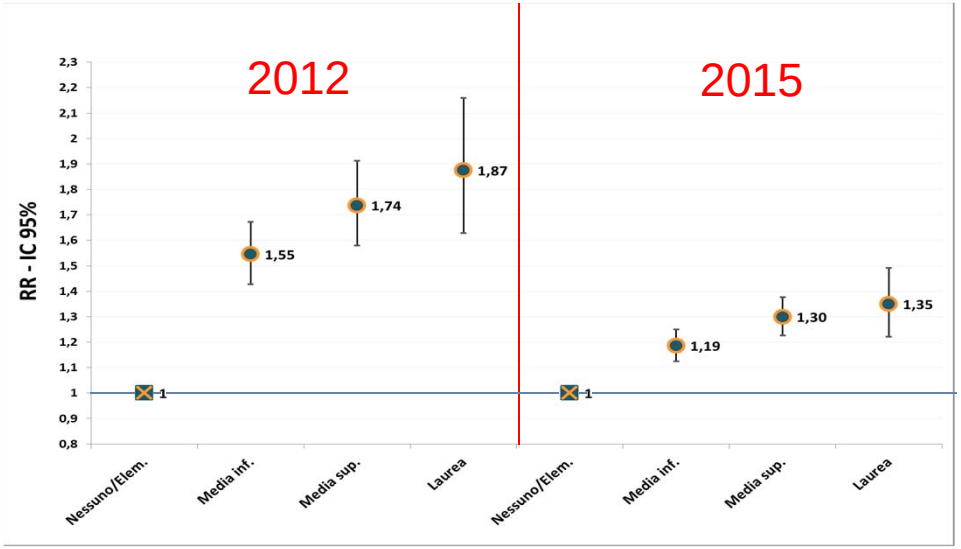
PROPORTION OF PRIMARY CESAREAN SECTION EDUCATIONAL LEVEL HIGH (DEGREE)/LOW (NONE/ELEMENTARY). LAZIO 2012-2015



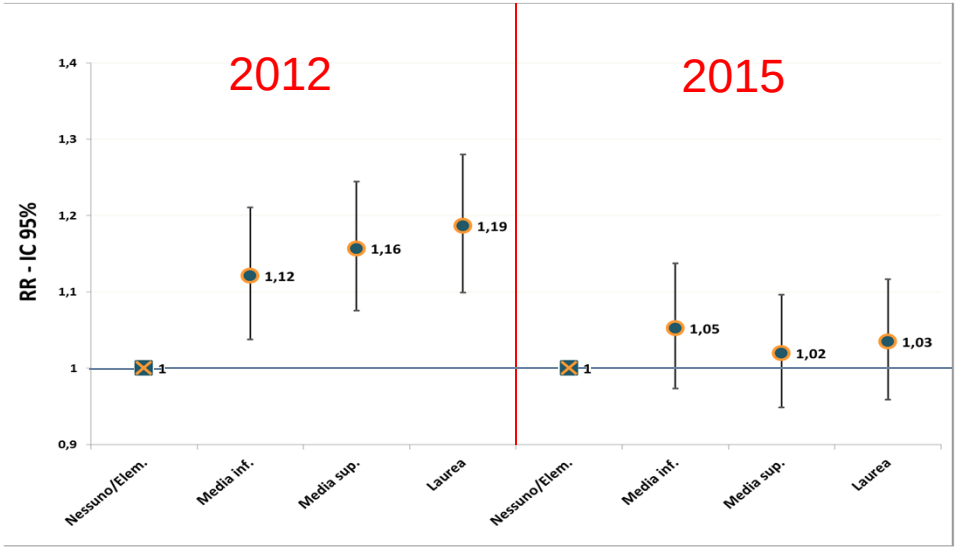
STEMI: primary PCI within 90 min



HIP FRACTURE: surgery within 2 days



Proportion of primary cesarean sections



CONCLUSIONS

In the Lazio region, we observed an overall improvement in health care outcomes during the study period

We also observed a reduction in the differential access to effective heath care by educational level, in different clinical areas.

Different factors might explain these results.

On top of the public disclosure of outcome data, the management strategy applied in mid-2013 might have driven the overall improvement of the health system for the considered conditions, helping to achieve a fairer access to health.

ACTIONS AIMED AT IMPROVING ACCESS TO EFFECTIVE CARE MIGHT REDUCE INEQUALITIES IN HEALTH

PLOS ONE

RESEARCH ARTICLE

Regional Outcome Evaluation Program (P.Re. Val.E.): Reduction of inequality in access to effective health care in the Lazio region of Italy (2012–2015)

Martina Ventura*☯, Danilo Fusco☯, Katia Bontempi, Paola Colais, Marina Davoli

Department of Epidemiology of Lazio Regional Health Service, Rome, Italy

☯ These authors contributed equally to this work.
* m.ventura@deplazio.it

Check for updates

Abstract

March 27, 2018

WIC WENNBERG INTERNATIONAL COLLABORATIVE
74 NRP Smarter Health Care National Research Programme
SSPH+ SWISS SCHOOL OF PUBLIC HEALTH
DIEP Lazio Department of Epidemiology Lazio Regional Health Service, Italy
SISTEMA SANITARIO REGIONALE ASL ROMA 1
REGIONE LAZIO

Grazie!
Thank you
Danke

1. Renzi C, Asta F, Fusco D, Agabiti N, Davoli M, Perucci CA. Does public reporting improve the quality of hospital care for acute myocardial infarction? Results from a regional outcome evaluation program in Italy. Int J Qual Health Care. 2014 Jun;26(3):223-30. Epub 2014 Apr 15. PMID: 24737832
2. Colais P, Pinnarelli L, Fusco D, Davoli M, Braga M, Perucci CA. The impact of a pay-for-performance system on timing to hip fracture surgery: experience from the Lazio Region (Italy). BMC Health Serv Res. 2013 Oct 7;13(1):393. Epub. PMID: 24099264
3. Colais P, Agabiti N, Fusco D, Pinnarelli L, Sorge C, Perucci CA, Davoli M. Inequality in 30-day mortality and the wait for surgery after hip fracture: the impact of the regional health care evaluation program in Lazio (Italy). Int J Qual Health Care. 2013 Jul;25(3):239-47. PMID: 23335054
4. Renzi C, Sorge C, Fusco D, Agabiti N, Davoli M, Perucci CA. Reporting of Quality Indicators and Improvement in Hospital Performance: The P.Re.Val.E. Regional Outcome Evaluation Program. Health Serv Res. 2012 Oct;47(5):1880-901. PMID: 22985031
5. Pinnarelli L, Nuti S, Sorge C, Davoli M, Fusco D, Agabiti N, Vainieri M, Perucci CA. What drives hospital performance? The impact of comparative outcome evaluation of patients admitted for hip fracture in two Italian regions. BMJ Qual Saf. 2012 Feb;21(2):127-34. PMID: 22016376
6. Fusco D, Barone AP, Sorge C, D'Ovidio M, Stafoggia M, Lallo A, Davoli M, Perucci CA. P.Re.Val.E.: outcome research program for the evaluation of health care quality in Lazio, Italy. BMC Health Serv Res. 2012 Jan 27;12(1):25. PMID: 22283880

WIC WENNBERG INTERNATIONAL COLLABORATIVE

74 NRP Smarter Health Care National Research Programme

SSPH+ SWISS SCHOOL OF PUBLIC HEALTH

DEP Lazio Department of Epidemiology Lazio Regional Health Service, Italy

SISTEMA SANITARIO REGIONALE ASL ROMA 1

REGIONE LAZIO