Use and Analysis of the hospital discharges database for quality and governance

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Born in 1978

an universalistic, egalitarian and public funded health care system

the safeguard of every citizen’s health is an individual asset and community interest

2001

State

19 Regions
2 Autonomous Provinces

for territorial planning and management
Italian National Health Service (INHS)

State

19 Regions and 2 Autonomous Provinces

Performance Assessment of all Regions and Support/Tutoring in Regions in Critical Conditions by “Recovery Plan”

Pact for Health

August 2014
All citizens are entitled to receive health care services included in the essential level at no cost at the point of access or upon payment of a small share of the cost
2006 A National System of Performance Evaluation
(Sistema Nazionale di Verifica e Controllo sull’Assistenza Sanitaria - SiVeAS)

System of Relationships among all central Institutions to which existing laws commit concerning Healthcare Assessment Functions and Good Practices Promotion within the INHS

To ascertain that the actual provision of Essential Level of Care corresponds to the financial resources assigned efficiency and appropriateness criteria are respected in the provision of Essential Levels of Care
Italian National Health Service (INHS)

2006 Permanent Committee for the audit of regional health systems

- monitoring the Essential Levels of Care
- certifying the degree of *fulfillment of ELC provision* in each Region
- gives way to access to 3% of the annual State NHS Funding

National Health Information System (Ministry of Health) maintains all databases required for continuous monitoring of Essential Levels of Care
National Health Information System

The national hospital discharges database (NHDD)

Universality

Quality: 1.1% errors on ~442 millions of informations

periodic review

Continuity 2001-2013-…..

http://www.salute.gov.it/

Accessibility

Possibility of tracking readmissions

NHDD

ministry of health

DGHP

NHIS

Local Health Authorities

monthly

check

Regions; A.P.

monthly

check

hospital

monthly

check
National Hospital Discharges Database (NHDD)

Using NHDD we can deliver indicators for:

- monitoring the uniform provision of Essential Levels of Care
- monitoring regional Recovery Plans every three months
- supporting the National Outcome Program (PNE)
- monitoring hospital activity and appropriateness
- producing new definitions for National Tariffs, Conventional Unique Tariffs and Standard Costs
- international comparisons, R&D studies, and tests for the adoption of standardized indicators (e.g. OECD Health Care Quality Indicators)
# Monitoring the Provision of Essential Levels of Care

## Assessment Grid for Essential Levels of Care - “Griglia LEA”

<table>
<thead>
<tr>
<th>Level of care</th>
<th>Dimensions</th>
<th>Indicators</th>
<th>Overall weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention</td>
<td>6</td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>Community care</td>
<td>9</td>
<td>13</td>
<td>11</td>
</tr>
<tr>
<td>Hospital care</td>
<td>5</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>31</td>
<td>25</td>
</tr>
</tbody>
</table>

### Capacity in the Efficient Provision of Essential Levels of Care

<table>
<thead>
<tr>
<th></th>
<th>Global Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>&gt; 160</td>
</tr>
<tr>
<td>In need of improvement</td>
<td>130 - 160</td>
</tr>
<tr>
<td>Critical</td>
<td>&lt; 130</td>
</tr>
</tbody>
</table>
## Assessment Grid for Essential Levels of Care - “Griglia LEA”

### Results at national level

<table>
<thead>
<tr>
<th>Evaluation Year 2012</th>
<th>Regions</th>
<th>Final global score</th>
<th>Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>Emilia R.</td>
<td>210</td>
<td>........</td>
</tr>
<tr>
<td></td>
<td>Toscana</td>
<td>193</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Veneto</td>
<td>193</td>
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<td></td>
<td>Piemonte</td>
<td>186</td>
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</tr>
<tr>
<td></td>
<td>Lombardia</td>
<td>184</td>
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<td>Liguria</td>
<td>176</td>
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<td>Umbria</td>
<td>171</td>
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<td>Basilicata</td>
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<tr>
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<td>Lazio</td>
<td>167</td>
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<tr>
<td></td>
<td>Marche</td>
<td>165</td>
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<tr>
<td></td>
<td>Sicilia</td>
<td>157</td>
<td>........</td>
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<tr>
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<td>Molise</td>
<td>146</td>
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<tr>
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<td>Abruzzo</td>
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<td>Puglia</td>
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<tr>
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<td>Calabria</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Campania</td>
<td>117</td>
<td>........</td>
</tr>
</tbody>
</table>

Assessment Grid for Essential Levels of Care - “Griglia LEA”

Results at regional level

http://www.salute.gov.it/portale/temi/p2_6_Lea.jsp?lingua=italiano&id=3962&menu=lea&idP=1302
Indicator 1.9. % of fractures of hip femur operated within 48 hours, age 65+

Effect of EHL monitoring: a practical example

F. Carle

capacity in the efficient provision of Essential Levels of Care

Good
In need of improvement
Critical
Effect of EHL monitoring: a practical example

Percentage of fractures of hip femur operated within 48 hours, age 65+ years 2001 - 2012

start monitoring ELC
Effect of EHL monitoring: a practical example

Percentage of fractures of hip femur operated within 48 hours, age 65+ years 2001 - 2012

Start monitoring ELC
Effect of EHL monitoring: a practical example

Percentage of fractures of hip femur operated within 48 hours, age 65+ years 2001 - 2012

- Toscana
- Umbria
- Marche
- Lazio
- ITALIA

Centre

good

critical

start monitoring ELC
Effect of EHL monitoring: a practical example

Percentage of fractures of hip femur operated within 48 hours, age 65+ years 2001 - 2012

Start monitoring ELC
Current activities at the Ministry of Health

- Ministerial Decree to update the structure of the NHD database

- Ministerial Decree for data linkage across national health databases

- Project to update major classification systems (ICD, DRG)
THANKS FOR YOUR ATTENTION