

# Population-based Quality Indicators of Cancer Care: the QC3 pilot study

A. Bordoni Bianchi-Galdi V, Spitale A, Mazzucchelli L Ticino Cancer Registry

www.ti.ch/cancer



Istituto Cantonale di Patologia Registro Tumori Cantone Ticino



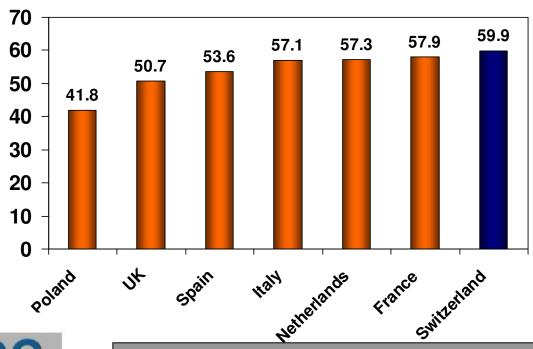
Qualità delle cure nella lotta contro il cancro Registro Tumori Canton Ticino

### M

## EUROCARE IV Survival Study Colorectal cancer

#### <u>Advantages</u>

- Standardised procedure, world wide recognised
- Regional and international comparisons
- Diagnostic precocity, treatment quality and follow-up in one value



"Disadvantage"

Long follow-up time



Additional instruments are needed: quality indicators





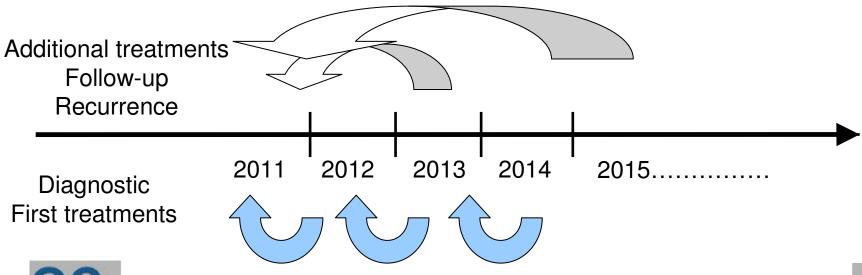
#### Why quality indicators?

#### <u>Advantages</u>

- Defragmentation of survival determinats
- Short follow-up time

"Disadvantage"

Less worldwide defined→ test







### м

## Aims of quality indicator cancer care study?

- To promote discussion on quality based on data
- To understand/realise if there is still room for additional increase of quality on cancer care
- To in deeper analyse at the regional level EUROCARE survival results





### M

#### What is a quality indicator?



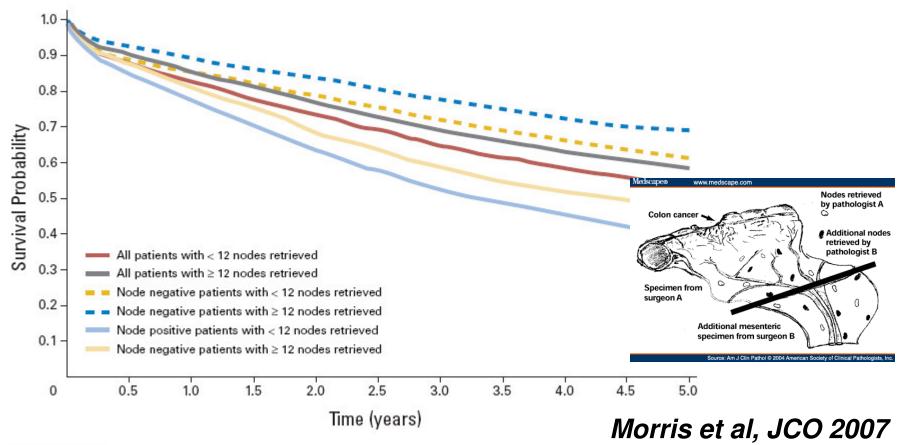
#### **Resection margins**

- 1. R0/R1
- 2. Proximal, distal, radial
- 3. Reported by pathologist





## Survival according to the number of retrieved lymph nodes







### М

#### Other colorectal quality indicators...

- Proportion of patients with preoperative staging
- Proportion of patients with intestinal obstruction
- Proportion of patients with locally advanced rectal cancer undergoing neo-adjuvant radiotherapy±chemotherapy
- Proportion of patients with stage II high risk or stage III disease receiving adjuvant chemotherapy
- Proportion of patients with rectal cancer with sphincter preservation





## Examples of colorectal quality indicators Ticino, 2009-2010

INDICATOR	COLON (n=303)	MINUMUM REQUIREMENT	TARGET REQUIREMENT	RECTUM (n=125)	MINUMUM REQUIREMENT	TARGET REQUIREMENT
Proportion of patients with microscopical confirmation of the tumour	96.7%	≥95%	95-100%	100%	≥95%	95-100%
Proportion of patients with <b>defined tumour site</b> in the biopsy / surgical resection according to WHO (all but NOS)	99.3%	≥95%	95-100%	89.6% ^	≥95%	95-100%
Proportion of surgical patients with known resection margins	96.2%	≥95%	95-100%	95.2%	≥95%	95-100%
Proportion of surgical patients with linfadenectomy	99.3%	۸۸	^^	96.4%	۸۸	۸۸
Proportion of surgical patients not undergoing neo-adjuvant therapy with more than 12 lymph nodes examined	84.4%	≥80%	90-100%	84.1%	≥80%	90-100%
Number of examined lymph nodes in surgical patients not undergoing neo-adjuvant therapy (mean±std, median)	<b>18.8</b> ±8.3 17.5	≥12	≥12	<b>16.6</b> ±7.2 15.5	≥12	≥12



#### Material and methods of the study

- All incident cases occurred in 2011-2013
- Colorectal, ovary, uterus, prostate and lung cancers (total 2000 cancer cases)

#### How are the indicators defined?

- According to the up-to-date literature
- Through existing guidelines (NCCI, ESMO, other)





### M

#### How are the indicators defined?

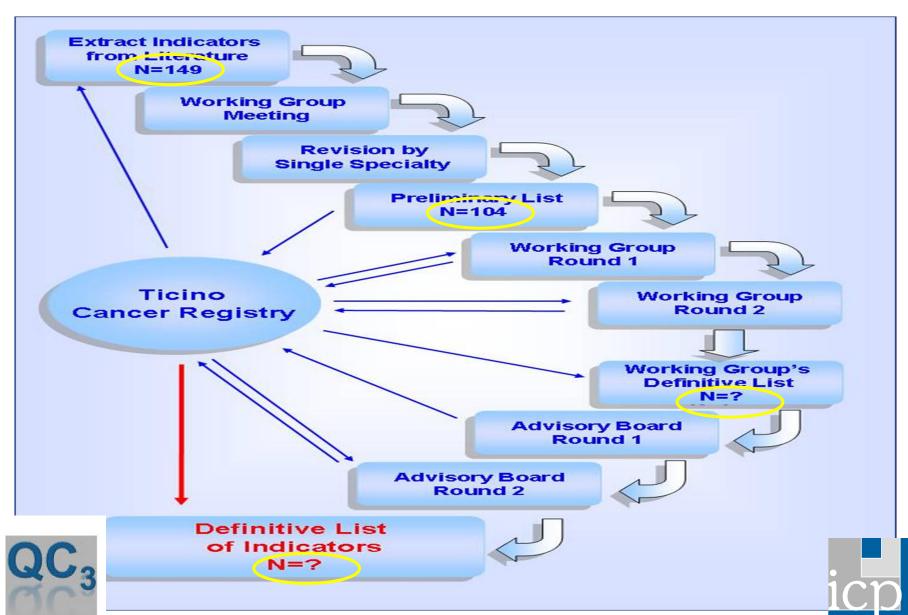
- Cancer Registry with a dedicated staff (Bianchi-Galdi V, Spitale A, Bordoni A)
- Working Group (pathology, surgery, oncology, radiotherapy, urology, etc....)
- 1. <u>Colon-Rectum WG</u>: Barizzi J, Franzetti-Pellanda A, Giovanella L, Heinkel J, Miazza B, Pelloni A, Quattropani C, Rosso R, Saletti P, Valli MC, Varini M, Wyttenbach R
- 2. <u>Prostate WG</u>: Ballerini G, Casanova G, Crippa S, Lladò A, Pesce G, Pedrazzini A, Roggero E, Stoffel F, Suriano S, Wyttenbach R.
- 3. Ovary/uterus WG: Ballerini G, Bronz L, Calderoni A, Cannizzaro C, Gyr T, Manganiello M, Marini MC, Richetti A, Rusca T, Sessa C, Suriano S.
- National and International Advisory Board

Ghielmini M, Martinoli S, Mazzucchelli L, Cavalli F, Goldirsch A, Faivre J, Paci E, ....and others to be contacted...





#### Delphy Process (ex. colo-rectal cancer)





#### Conclusion (I)

- Up-to-date quality indicators without waiting for survival data (ideally yearly produced)
- Aim is **not** to control doctors! Aim is to additionally stimulate the **discussion** based on data (cultural process) in order to identify the good quality and the lack of quality







#### Conclusion (II)

- The study is population-based (Cancer Registry, no selection bias) and concerns public and private settings, ensuring a real description. Results should be compared with other national and international initiatives (US and Holland)
- Long-term study, so permitting trend analysis of quality indicators and the evaluation of other cancer sites
- Promote similar study in other region/cancer registry of Switzerland







## We are really grateful for the support of the study sponsors:



Ricerca Svizzera Contro il Cancro



Zonta Club Locarno



Accademia Svizzera delle Scienze Mediche



Ente ospedaliero cantonale



Repubblica e cantone Ticino



