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The stage for childhood cancers: the JARC pilot study

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WP of epidemiology, task on data quality in population based cancer registries
Stage in childhood cancers (Toronto guidelines)

Childhood cancers (0-14 years of age)

Background

- Rare (< 1 % all malignant cancers)
- Classified differently to adult cancers (ICCC-3)
- Uses different staging systems to adult cancer

Aims

Can Toronto guidelines be adopted by the European registries?

Toronto stage guidelines

TNM Classification of MALIGNANT TUMOURS

NVCER IOGENIE

WILEY Blackwell

Paediatric cancer stage in population-based cancer the Toronto consensus principles and guidelines

Sumit Gupta, Joanne F Aitken, Ute Bartels, James Brierley, Mae Dolendo, Paola Friedrich, Soad Fuentes-Alabi, Cl Mary Gospodarowicz, Thomas Gross, Scott C Howard, Elizabeth Molyneux, Florencia Moreno, Jason D Pole, Kai Lynn A G Ries, Carlos Rodriguez-Galindo, Hee Young Shin, Eva Steliarova-Foucher, Lillian Sung, Eddy Supriyad Julie Torode, Tushar Vora, Tezer Kutluk, A Lindsay Frazier

www.thelancet.com/oncology Vol 17 Apr



Pilot study for <u>neuroblastoma</u> e <u>Wilms tumours</u>

Registries, countries, period, cases

REGISTRIES Belgium Denmark France Greece Hungary Italy (7) Malta Norway Portugal (1) Slovakia Slovenia Spain (5) Switzerland

CASES

Neuroblastoma = 499 Nephroblastoma = 387 complete incidence, at least 10 consecutive cases per tumour

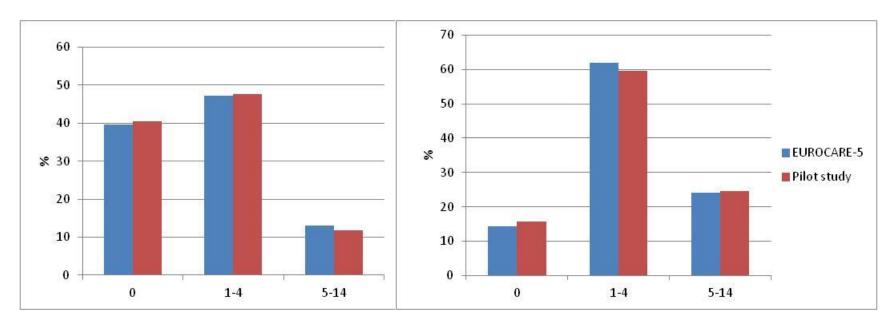
> PERIOD OF DIAGNOSIS 2002-2015



Sample, age (% distribution)

NEUROBLASTOMA

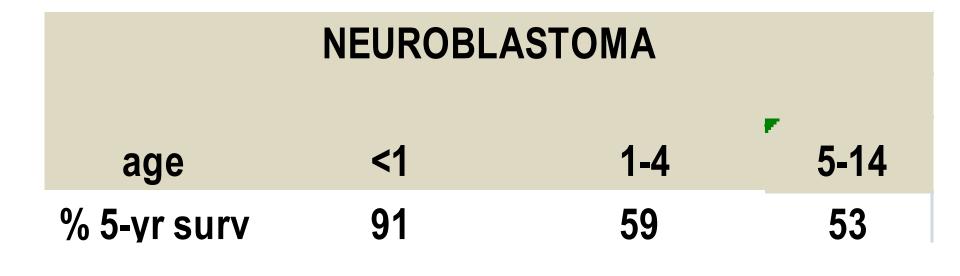
WILMS



red= pilot study blue= from EUROCARE-5

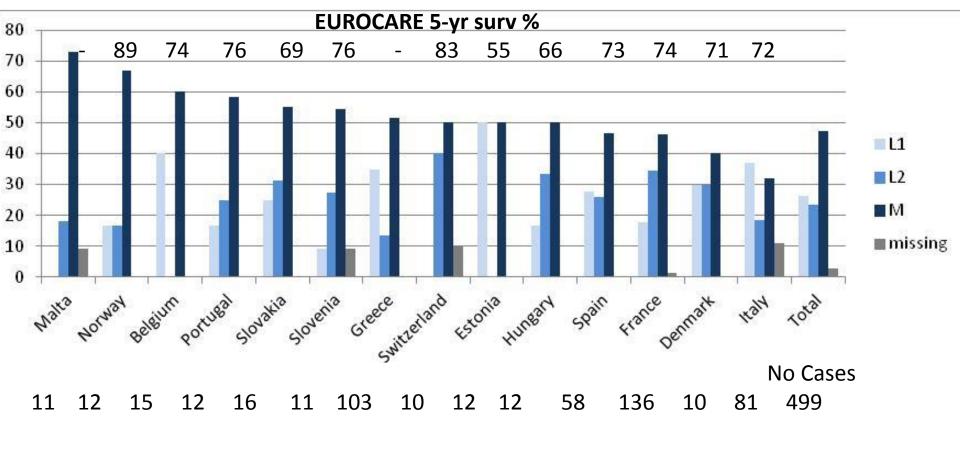
Toronto stage, collected : 97%

Toronto stage, age NEUROBLASTOMA



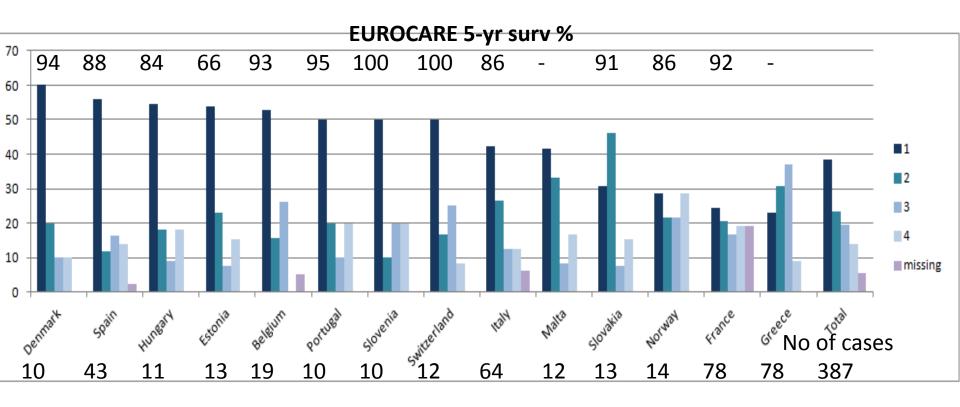
EUROCARE-5 survival [Lancet Oncology, 2013]

Toronto stage, by country NEUROBLASTOMA



EUROCARE 5-year survival : from 89% in Norway to 55% in Estonia

Toronto stage, by country NEPHROBLASTOMA



EUROCARE 5-year survival : from 100% in Switzerland and Slovenia to 66% in Estonia



Administrative, pathological reports, clinical records, other

	neuroblastoma	Wilms
source	%	%
clinical record *	93	70
pathological rep	ort.* 94	87

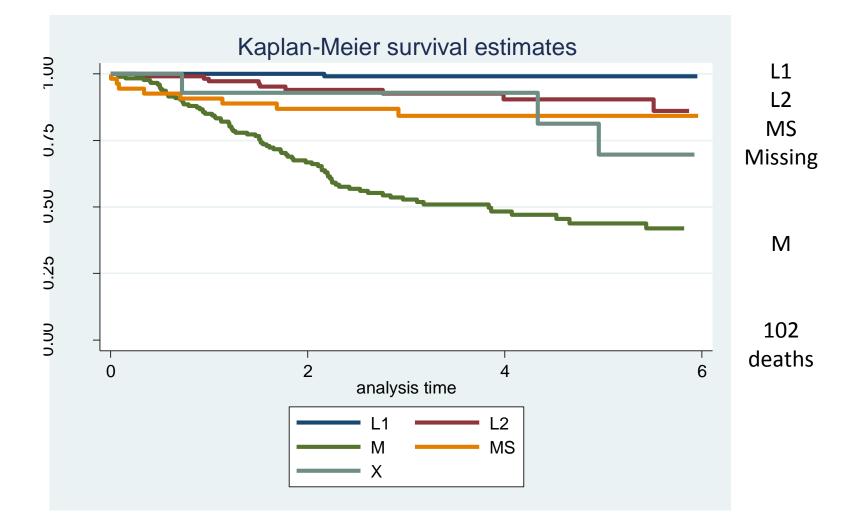
*alone or together with the other sources

Examinations to define T and M by registrars

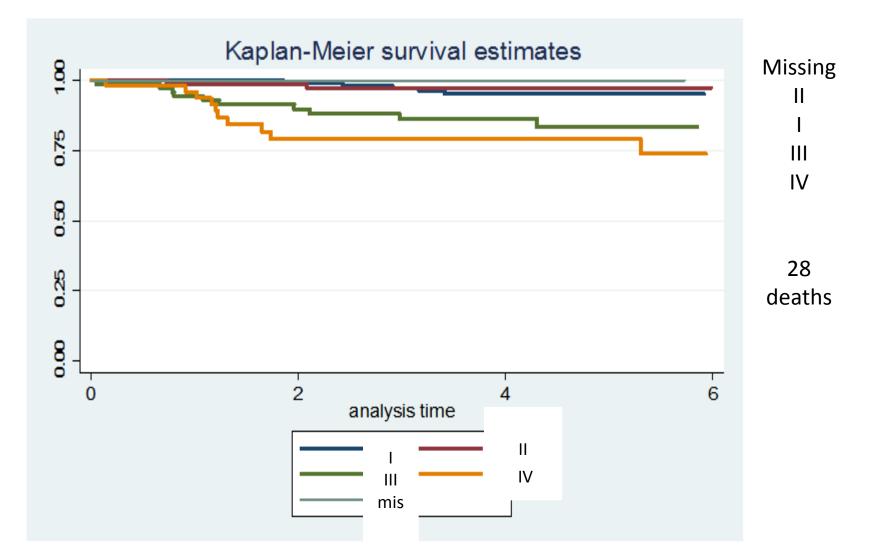
		Т	М
		%	%
neuroblastoma	one	11	32
	two	54	36
	three	27	26
Wilms			
	one	7	48
	two	58	6
	three		
		25	4

T : CT scan, MRI, abdominal ultrasound **M**:Scintigraphy, marrow agobiopsy, x-ray thorax

survival, neuroblastoma (n=499)



survival, Wilms (n=387)



Comparison with other studies

Stage, comparison with other studies **MISSING**

Population registries from Argentina, SEER, Denmark, UK.

missing 35% - 21%



Australian study on Toronto staging



Australian study on Toronto staging

Articles

Assessing the feasibility and validity of the Toronto Childhood Cancer Stage Guidelines: a population-based registry study

Joanne F Aitken, Danny R Youlden, Andrew S Moore, Peter D Baade, Leisa J Ward, Vicky J Thursfield, Patricia C Valery, Adèle C Green, Sumit Gupta, A Lindsay Frazier

Summary

Background Cancer stage at diagnosis is crucial for assessing global efforts to increase awareness of childhood cancer and improve outcomes. However, consistent information on childhood cancer stage is absent from population cancer







Could a registry simply collect stage recorded in the chart by the physician?

Not in Australia:

- Stage was present in the record in only 39% of cases (93% could be staged using the Toronto Guidelines).
- The staging system used was not recorded.
- Staging data were inconsistent different stages were recorded (different times, different opinions?..)

Cost of collecting data elements and assigning Toronto stage, Australian study

average 18 minutes per case



Discussion

- Toronto guidelines are applicable and should be implemented also for the other childhood cancers
- Training course with test for validation are welcome (ENCR?)
- We hope the Toronto stage could be included in the routine of the majority of European registries
- Involvement of the paediatric oncology community (for example, stage must be reported in the clinical record)
- Further efforts to standardise the stage coding among registries

Proposal: can the next EUROCARE include stage according to the Toronto guidelines?

thank you

Belgium: National (Liesbet Van Eycken, Nancy Van Damme); **Denmark**: National Childhood (Filippa Nyboe Norsker, Jeanette Falck Winther) **Estonia:** National CR (Keiu Paapsi, Kaire Innos) *France:* National Childhood Solid Tumours (BLacour, EDesandes); **Greece** : National (Eleni Petridou,); **Hungary:** National childhood CR (Jakab Zsuzsanna); Italy: Agrigento and Trapani (Pina Candela, Tiziana Scuderi), Barletta Andria Trani (Enzo Coviello), Campania childhood (Francesco Vetrano, Fabio Savoia), Catania Siracusa Enna (Marine Castaing), Palermo (Francesco Vitale, Rosalba Amodio), Pavia (Lorenza Boschetti), Varese (Giovanna Tagliabue, Sabrina Fabiano); **Malta:** National CR (Dominic Agius); **Norway**: National CR (Bernward Zeller, Aina Helen Dahlen); **Portugal:** South Portugal (Ana Miranda); **Spain:** Basque Country (Arantza Lopez de Munain Marques), Girona childhood (Rafael Marcos-Gragera), Granada (Maria Josè Sanchez), Murcia (Maria Dolores Chirlague), Navarra (Eva Ardanaz, Marcela del Pilar); **Slovakia:** National CR (Chakameh Safaei Diba); **Slovenia:** National CR (Zadnik Vesna, Žagar Tina); Switzerland: Swiss national childhood (Claudia Kühni, Shelah Redmond)

