





### Klinikum Stuttgart – Medizin fürs Leben Institutional variables in the European and American Osteosarcoma Study EURAMOS-1:

#### **Pediatric and adolescent**

#### vs. young adult osteosarcoma patients

Stefan Bielack<sup>1,2</sup>, Jane Hook<sup>3</sup>, Gordana Jovic<sup>3</sup>, Neyssa Marina<sup>4</sup>; Sigbjørn Smeland<sup>5</sup>, Matthew R Sydes<sup>3</sup>, Jeremy Whelan<sup>6</sup>, Mark Bernstein<sup>7</sup>

Klinikum Stuttgart - Olgahospital<sup>1</sup> and University Hospital Muenster<sup>2</sup>, Germany; MRC Clinical Trials Unit<sup>3</sup> & UCL Hospitals NHS Trust<sup>6</sup>, London, UK; Stanford University Medical Center, USA<sup>4</sup>; Norwegian Radium Hospital, Oslo, Norway<sup>5</sup>; IWK Health Centre, Dalhousie University, Halifax, Canada<sup>7</sup>









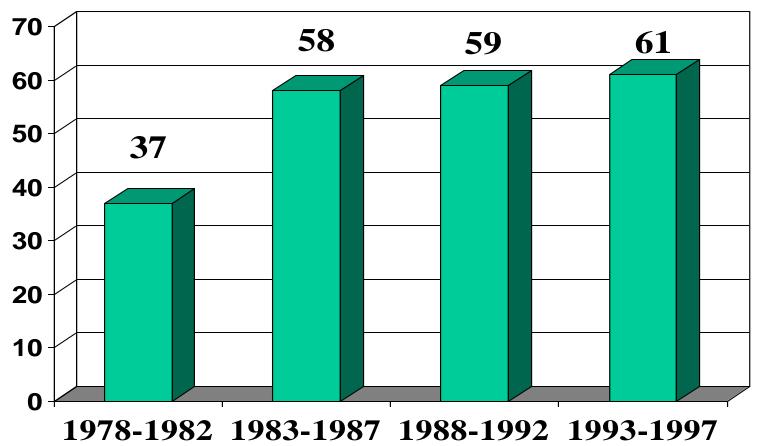
Supported by the European Science Foundation (ESF) under the EUROCORES Program European Clinical Trials (ECT), through contract No. ERASCT-2003-980409 of the European Commission, DG



#### Bone tumours in European children and adolescents, 1978–1997. Report from the Automated Childhood Cancer Information System project

C.A. Stiller<sup>a,\*</sup>, S.S. Bielack<sup>b,c</sup>, G. Jundt<sup>d</sup>, E. Steliarova-Foucher<sup>e</sup>
EUROPEAN JOURNAL OF CANCER 42 (2006) 2 I 2 4 – 2 I 3 5

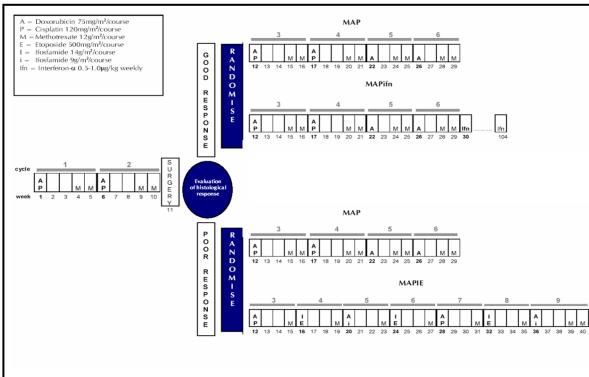












#### 3.1. Primary objectives

- In a randomized trial, to examine whether the addition of ifosfamide and etoposide (IE) to post-operative chemotherapy with cisplatin, doxorubicin and methotrexate improves event-free survival for patients with resectable osteosarcoma and a poor histological response to 10 weeks of pre-operative chemotherapy.
- In a randomized trial, to examine whether the addition of pegylated interferon α-2b (ifn) as maintenance therapy after post-operative chemotherapy with cisplatin, doxorubicin and methotrexate improves event-free survival for patients with resectable osteosarcoma and a good histological response to 10 weeks of pre-operative chemotherapy.





## EURAMOS main eligibility criteria

- osteosarcoma (high-grade, resectable)
- age 0-40
- no previous chemo



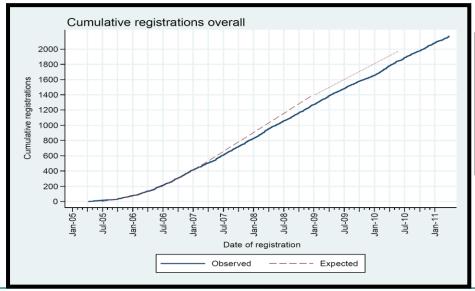




#### EURAMOS Recruitment 04/05 - 06/11

# 2,260 patients from 326 institutions in 17 countries





Group		Freq.	Percent	Cum.
-	COG	1,164	51.50	51.50
	coss	520	23.01	74.51
	EOI	457	20.22	94.73
	SSG	119	5.27	100.00
T	otal	2,260	100.00	

Thanks to EURAMOS-CDC, MRC London

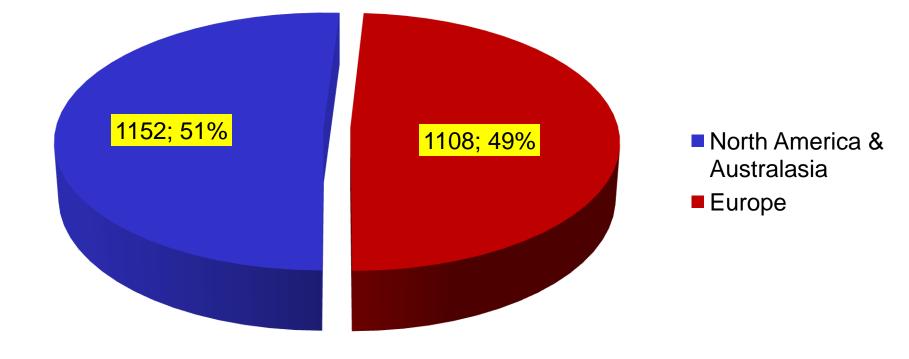












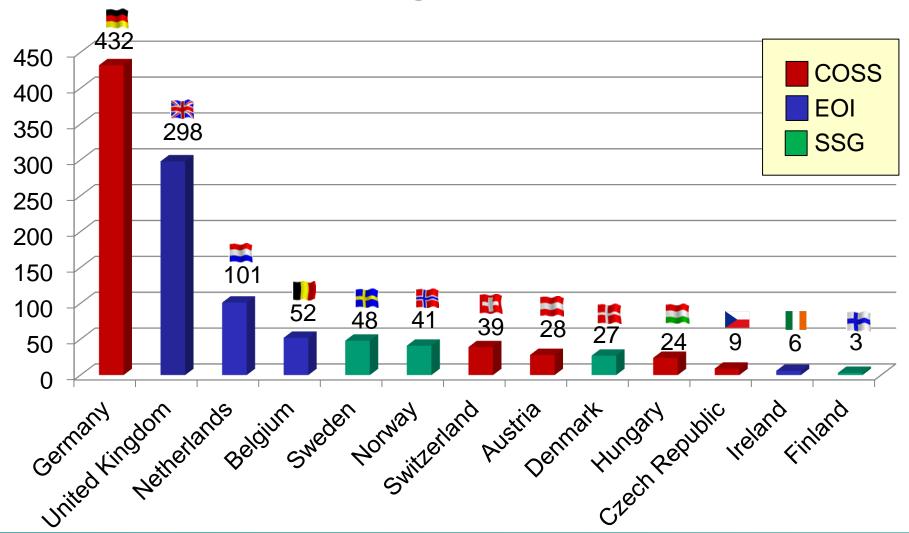






#### **EURAMOS1**

#### Final recruitment figures for Europe ( $\Sigma = 1,108$ )







#### EURAMOS

## **EURAMOS1 Top 10 Recruiters**

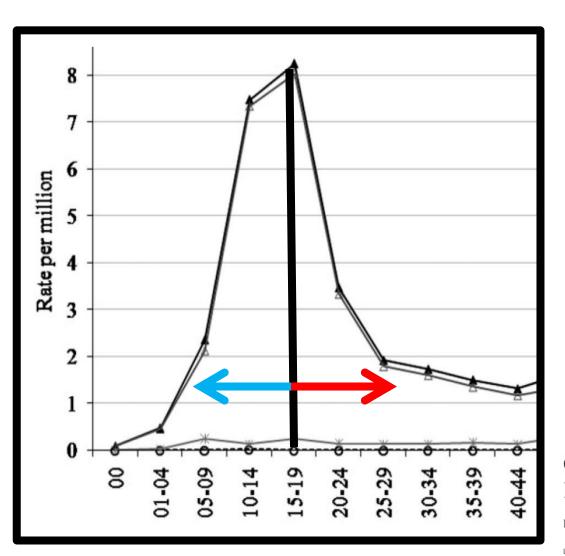


	•	
UK London: UCH		90 🎇
Netherlands Leiden UMC		51
Germany Münster: Univers. Kinderklinik		35
Norway Oslo		30
USA Children's Hospital of Philadelphia		26
USA Children's Hospital and Regional Me		24
Germany München: Kinderklinik & Polikli		23
USA Doernbecher Childrens Hospital - OH		23
USA University of Minnesota Cancer Cent		23
Germany Hamburg: Univers. Paediat. Onco		22
Germany Stuttgart: Olgahospital		22

Sum 346/2,260 = 15.3% of total recruitment









Osteosarcoma Incidence and Survival Rates From 1973 to 20<u>04</u>

Cancer 2009;115:1531-43.

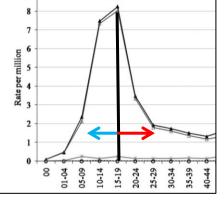
Data From the Surveillance, Epidemiology, and End Results Program

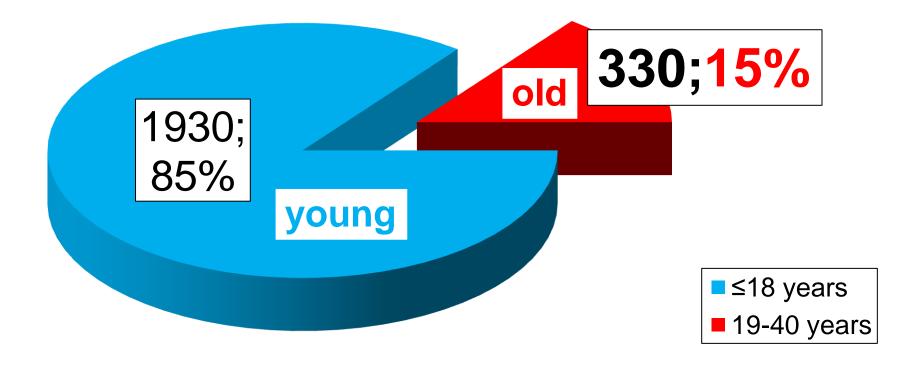
Lisa Mirabello, PhD<sup>1</sup>, Rebecca J. Troisi, ScD<sup>2,3</sup>, and Sharon A. Savage, MD<sup>1</sup>

















	8 -				/	1					
	7 -				1	-\					
uo	6 -					- 1	$\vdash$				
Rate per million	5 -				$\vdash$	+	$\vdash$				
te per	4 -			-1		+	+				
Ra	3 -			-		+	1	\ \			
	2 -			1		1		1		_	
	1 -		/	/		T	•			-	*
	0 -	6	-	0		-		- 0	-0-	-0-	-0-
		8	01-04	02-09	10-14	15-19	20-24	25-29	30-34	35-39	40-44

	<u>0-18 yr</u>	<u> 19-40yr</u>	<u>p</u>
n	1930	330	
male	<b>57%</b>	71%	<.01
axial	4%	<b>12%</b>	<.01
mets*	23%	24%	* = definitive & possible mets



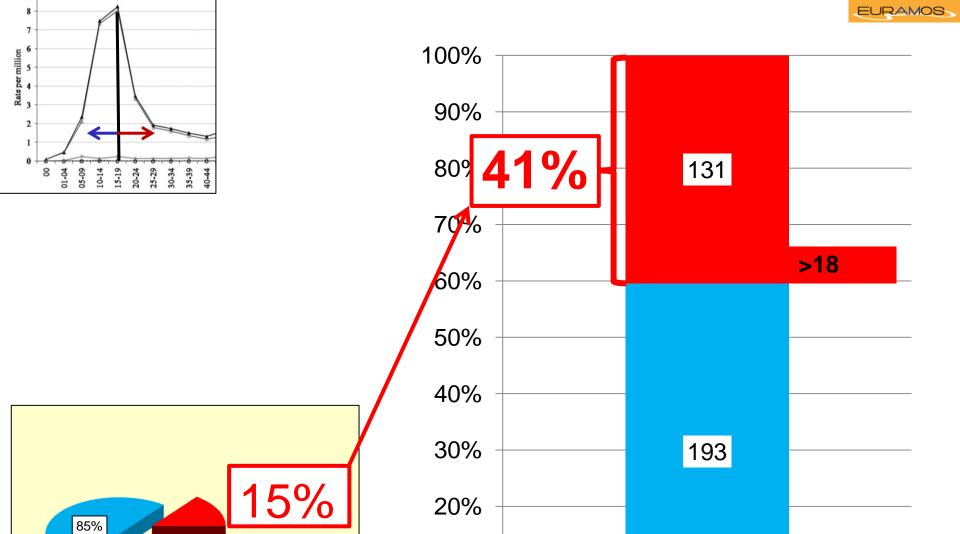




8		
7	/ 1\	
g 6		
5		
Rate per million		
2 3		
2		
1		
0	6,0,0,0,0,0,0,0	· · · ·
	00 01-04 05-09 05-09 15-19 20-24 25-29 35-39 35-39	40-44

	<u>0-18 yr</u>	<u> 19-40yr</u>	<u>p</u>
n	1930	330	
male	57%	71%	<.01
axial	4%	12%	<.01
mets*	23%	24%	n.s.
randomized	<b>59%</b>	<b>54%</b>	n.s.





10%

0%

■≤18 years ■19-40 years

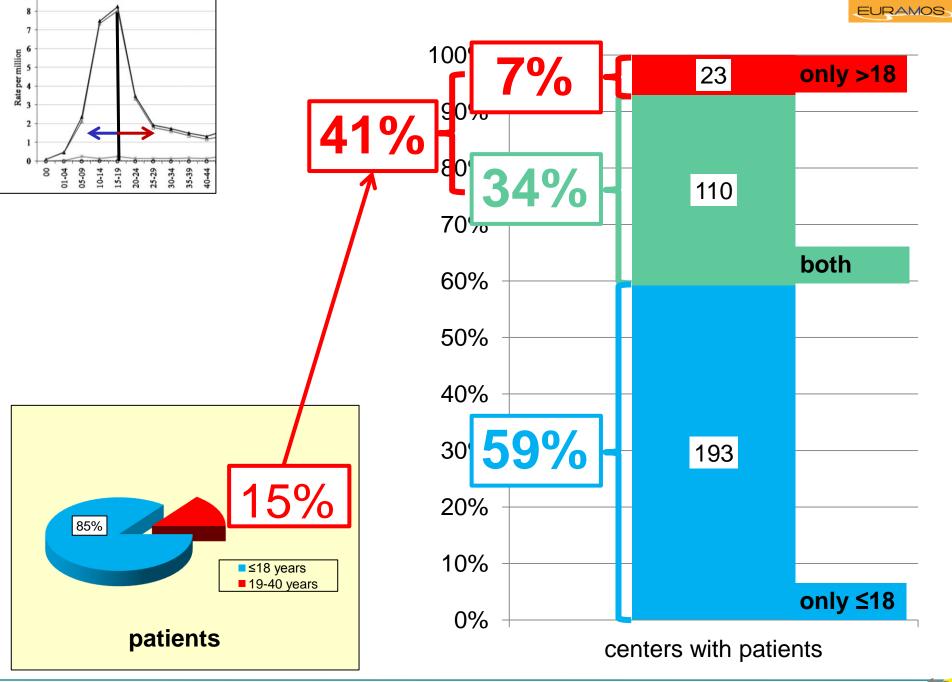
patients





only ≤18

centers with patients









	center	s <u>pts</u>	pts/center
only old	23	41	1.8
both	110	1191	10.8
only young	193	1028	5.3





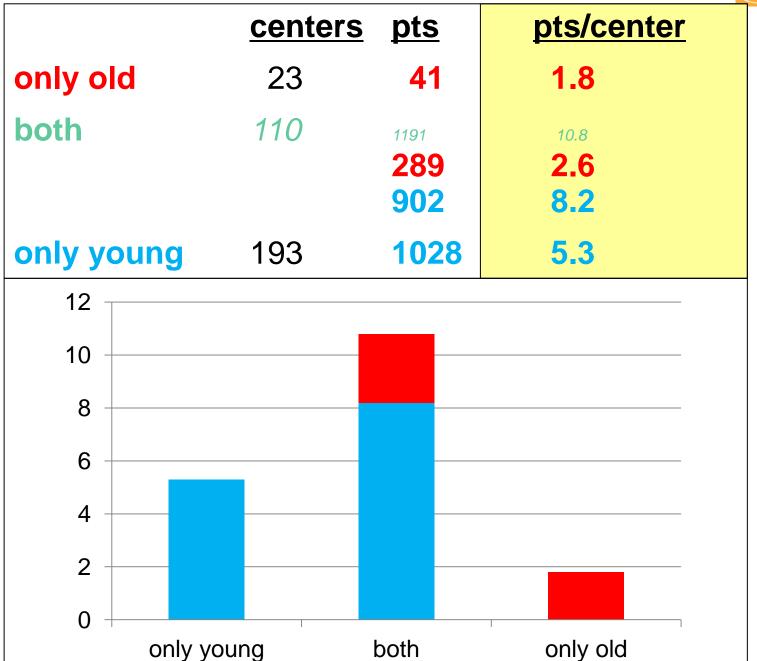


		centers	<u>pts</u>	pts/center
only old	b	23	41	1.8
both		110	1191	10.8
only yo	ung	193	1028	5.3
12 —				
10				
8				
6				
4				
2				
0 —	only you	ng	both	only old





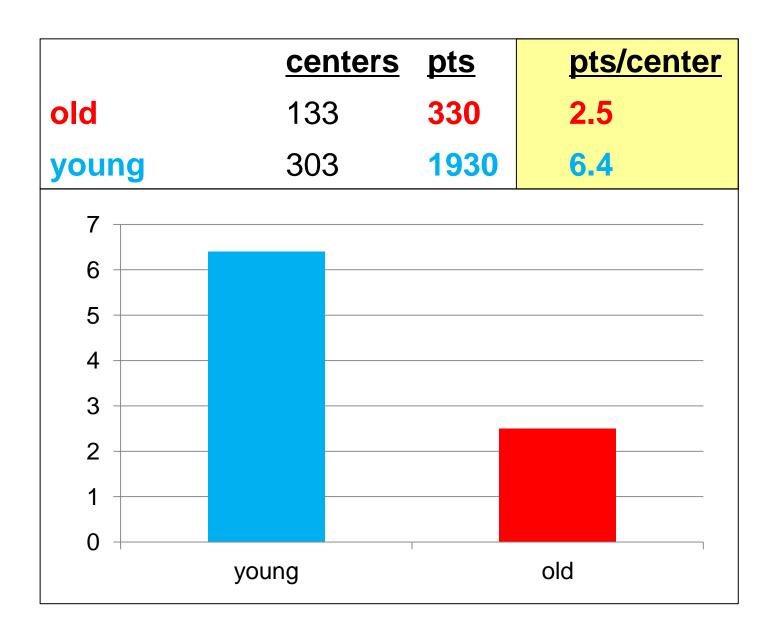
EURAMOS

















#### Conclusions

- low degree of centralization especially for older patients (young adults)
- most patients >18yr registered by institutions also caring for children/adolescents
- efforts targeting "adult" oncology seem to be warranted

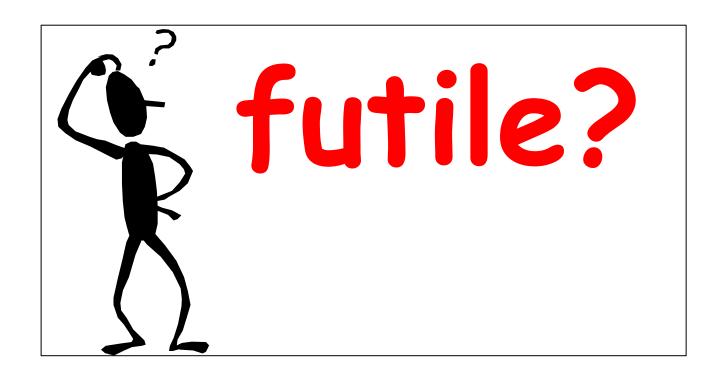






#### Conclusions

efforts targeting "adult" oncology









#### **EUROCORES Programme**

**European Collaborative Research** 

#### The EURAMOS investigators thank

**ESF** 

and its Member Organisations

for their support



Supported by the European Science Foundation (ESF) under the EUROCORES Program European Clinical Trials (ECT), through contract No. ERASCT-2003-980409 of the European Commission, DG











#### Klinikum Stuttgart – Medizin fürs Leben

#### Danke für Ihre Aufmerksamkeit!













