



European Census of Paediatric Surgery



Need for data



William E. Deming
(1900-1993)
USA statistician

*In God we
trust,
all others
bring data !*

WHO Global Code of Practice on the International Recruitment of Health Personnel

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HP-PJ-2015

Opening Date	05-06-2015	Deadline Date	15-09-2015 17:00:00 (Brussels local time)
Publication date	05-06-2015	Total Call Budget	€9,000,000
Programme	3rd Health Programme		
Status	Open	Main Pillar	3rd Health Programme

Topic: Support for the implementation and scaling up of good practices in the areas of integrated care, frailty prevention, adherence to medical plans and age-friendly communities PJ-04-2015



UNION EUROPÉENNE DES MÉDECINS SPÉCIALISTES
EUROPEAN UNION OF MEDICAL SPECIALISTS

The UEMS Section of Paediatric Surgery

THE PRESIDENT

Prof. Gian Battista Parigi
IRCCS Policlinico "S. Matteo"
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Tel/fax 0039-0382-422966
gbparigi@unipv.it

7TH October 2013

To the National Delegates
UEMS Section & Board of Pediatric Surgery

Dear Colleagues and friends,

the issue of Healthcare Workforce is gaining momentum in the European Commission, and the expert advice of UEMS will be more and more needed to give reliable and updated data on the network of European Centers delivering specialist care.

To this goal the Executive Committees of UEMS Section & Board of Paediatric Surgery and EUPSA agreed to embark in the demanding joint venture of an "European Census", aimed to gather basic data on all Centres of Paediatric Surgery throughout Europe. With "Center" we do mean a structure formally recognised in a public hospital, belonging either to the NHS or to a University, with dedicated beds and staff; excluded are structures in private for profit hospitals and "pediatric surgical beds" in departments of General Surgery or Pediatrics.

To this goal a dedicated page on EUPSA website will be shortly opened, to be filled by each one of the European Centers: but to invite all these Centers we need your cooperation, as National Delegates to the UEMS. We would therefore kindly ask you to prepare a list of all Pediatric Surgical Centers in your Country, complying with the requisites just detailed, with just these three entries:

- 1) name of the Hospital
- 2) City
- 3) e-mail to address the invitation to take part to the census

Attached is a sample list written in Excel. Once completed the list should be sent to the UEMS Secretary prof. Czauderna at: pczaud@gumed.edu.pl. Possibly the list should be sent by the end of October.

Thanking you for your cooperation we send you our best greetings.

Gian Battista Parigi

Piotr Czauderna

Letter to UEMS National Delegates, 7th Oct 2013

Definition of "Center"

- With "Center" we do mean a structure formally recognised in a public hospital, belonging either to the NHS or to a University, with dedicated beds and staff; excluded are structures in private for profit hospitals and "pediatric surgical beds" in departments of General Surgery or Pediatrics

Facing problems

- “Data mining” on Pediatric Surgical societies websites
- e.g., the German situation:
 - 226 quotes in the DGKCh website
 - 31 University
 - 56 Krankenhaus
 - 16 Church-related hospitals
 - 28 Private hospitals
 - 95 Praxis

Facing problems

- “Data mining” on Pediatric Surgical societies websites
 - Germany situation:
 - 226 quotes in the DGKCh website
 - 31 University
 - 56 Krankenhaus
 - 16 Church-related hospitals
 - 28 Private hospitals
 - 95 Praxis
- 87 Centers

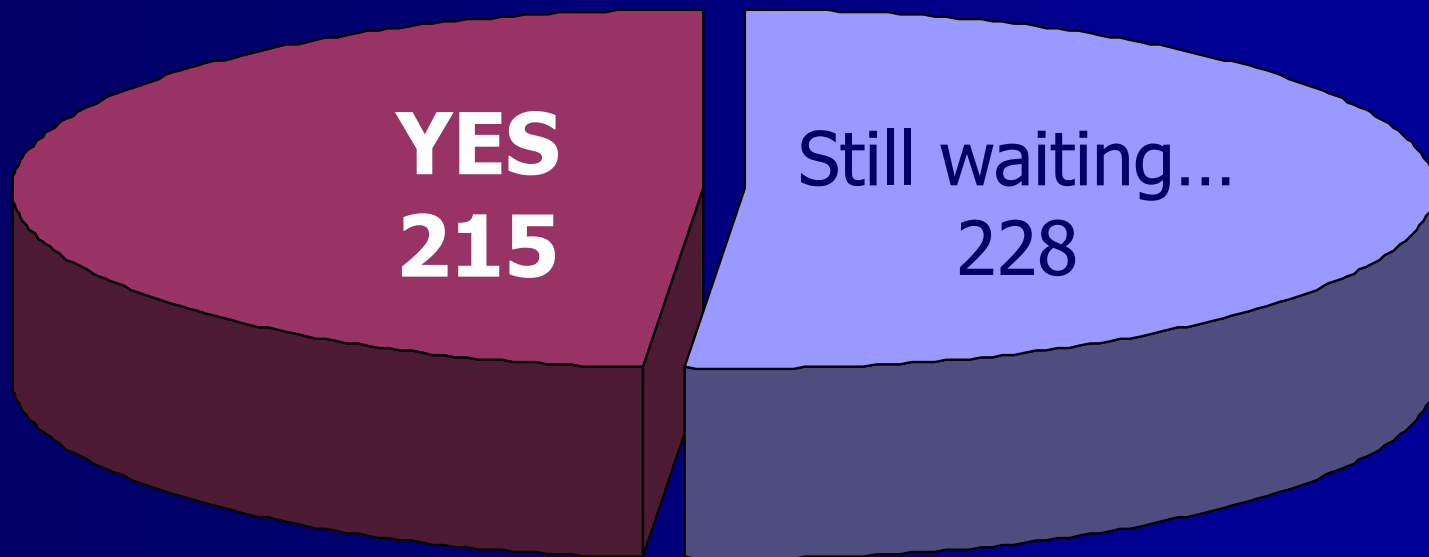
<i>Country</i>	<i>Centers</i>
Austria	7
Belgium	5
Bulgaria	4
Croatia	5
Cyprus	2
Czech R.	8
Denmark	2
Estonia	1
Finland	4
France	53
Germany	87
Greece	5
Hungary	10
Ireland	3
Italy	55

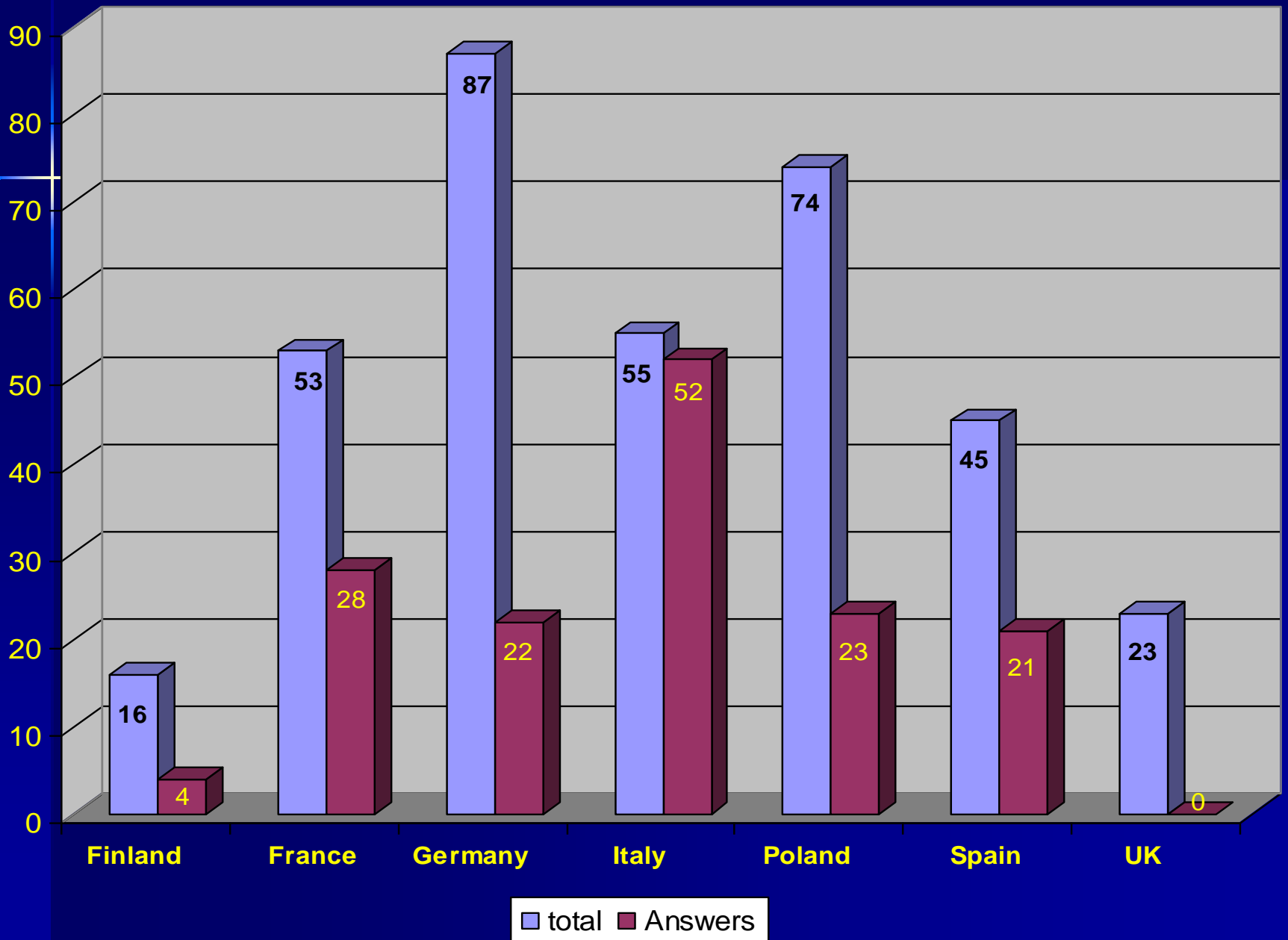
Latvia	
Lithuania	6
Luxembourg	1
Malta	1
Netherlands	6
Norway	2
Poland	74
Portugal	n/a
Romania	n/a
Slovakia	4
Slovenia	2
Spain	45
Sweden	4
Switzerland	11
UK	23
TOTAL	443

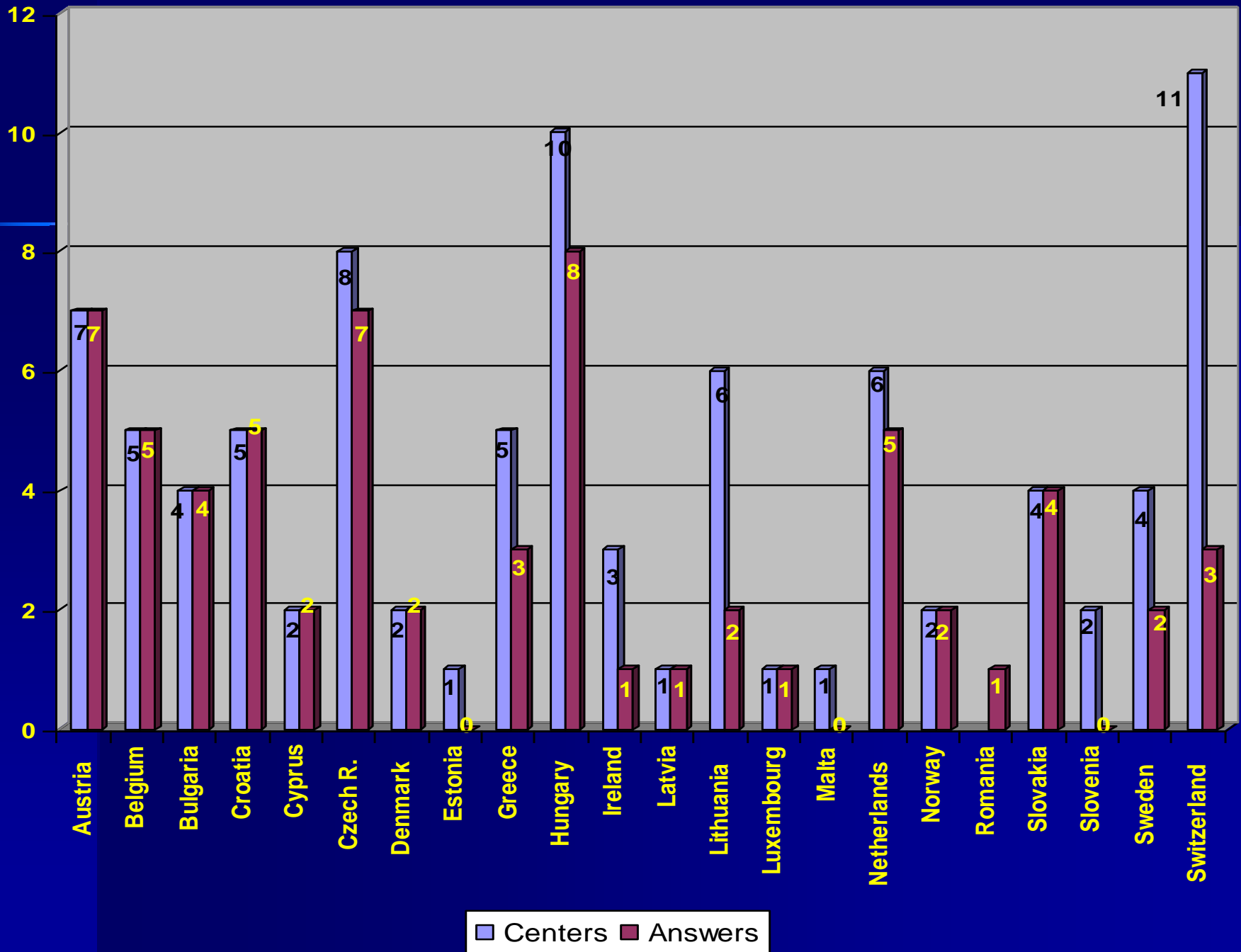
Questionnaire

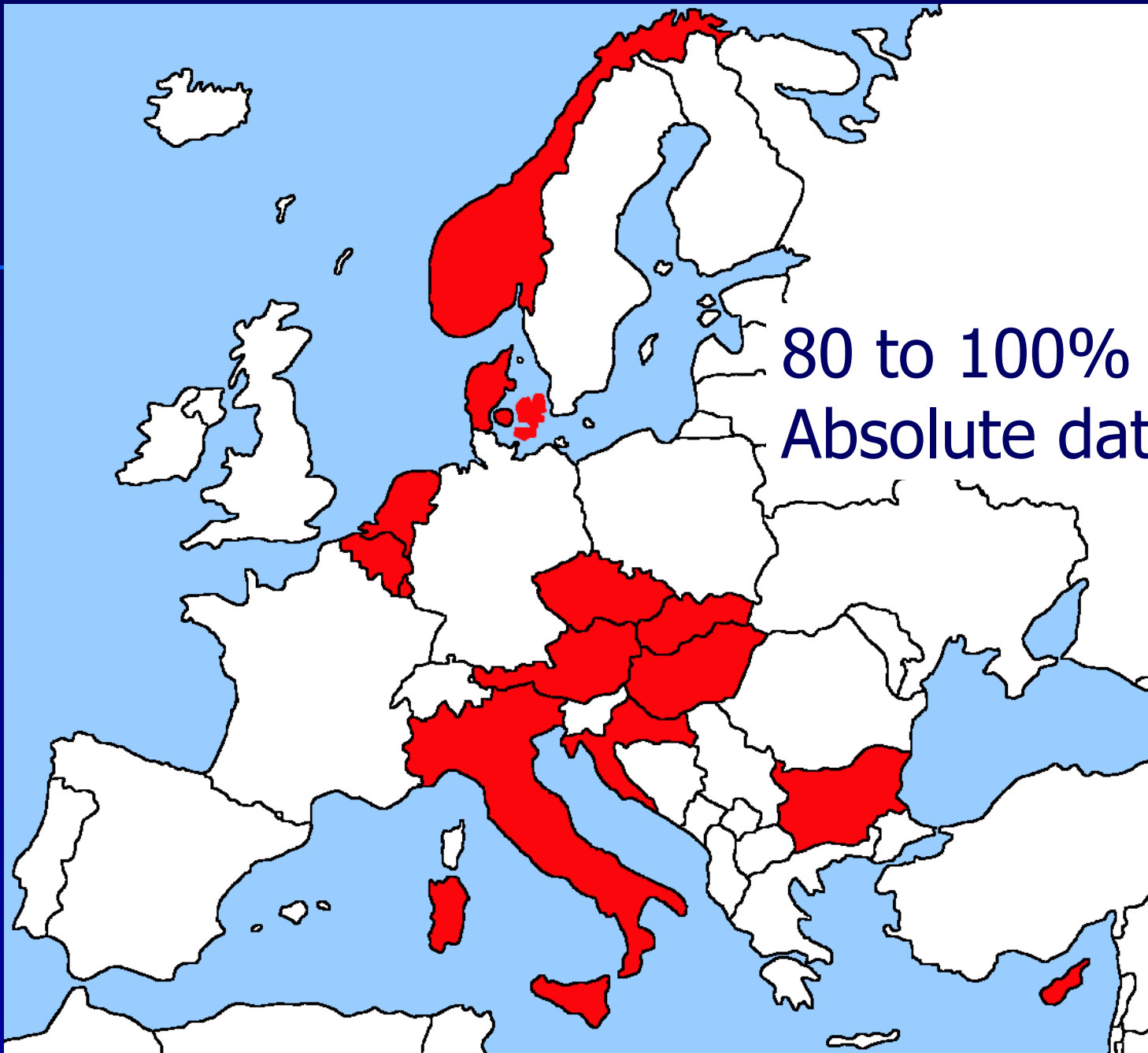
- General data about the Center
- Workload data
 - Beds, admissions, operations,...
- Manpower data
 - Staff (ages), trainees
- Ancillary data
 - Pediatric facilities available, services, transplants, ...

Answers received (n=443)



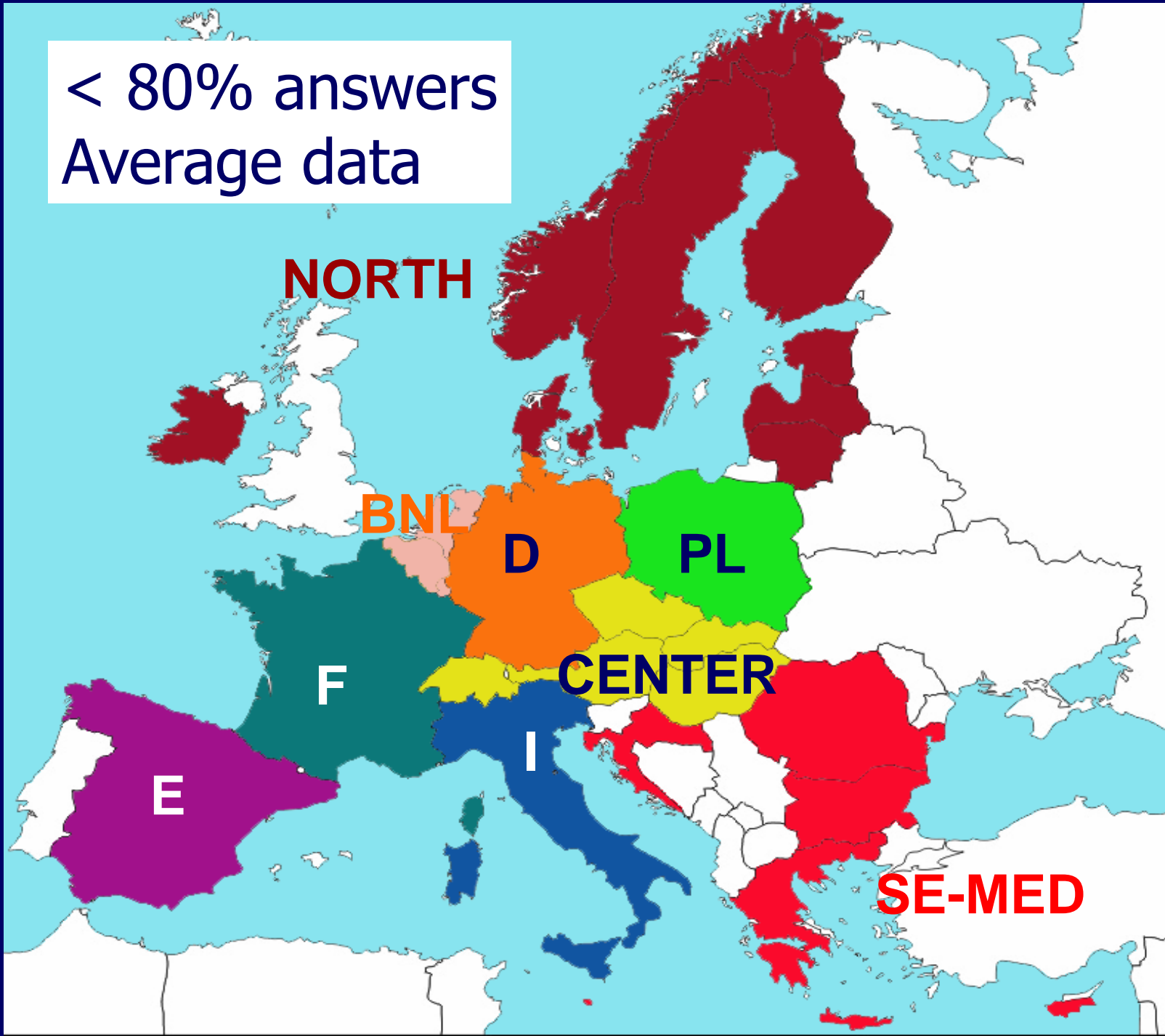






80 to 100% answers
Absolute data

< 80% answers
Average data





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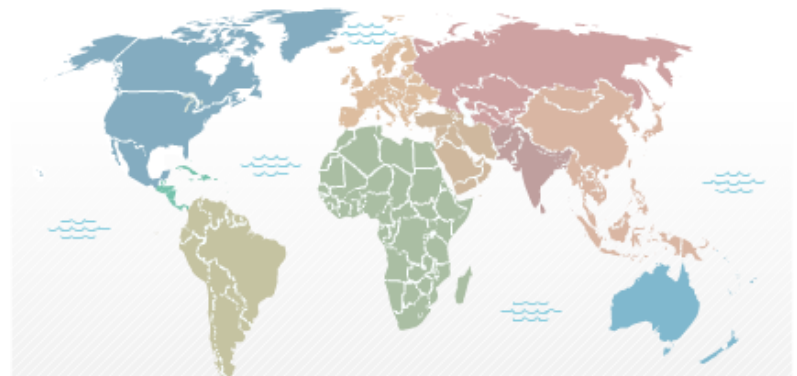
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How many Europeans are we ? (EU + EFTA Countries)

population	% 0-14 years	Children 0-14	median age
524.654.120	15,5	81.127.379	41,3

Top & down values

Country	population	% 0-14 years	children 0-14	median age	birth rate x 1000
Cyprus	1.172.458	15,7	184.076	35,7	11,4
France	66.259.012	18,7	12.390.435	40,9	12,5
Germany	80.996.685	13	10.529.569	46,1	8,4
Ireland	4.832.765	21,4	1.034.212	35,7	15,1
Malta	412.655	15,1	62.311	40,9	10,2

What about neonates ?

birth rate x 1000	neonates 2014	infant mortality rate x 1000	total fertility rate
10,3	5.347.180	5,0	1,6

Every year in Europe are born...

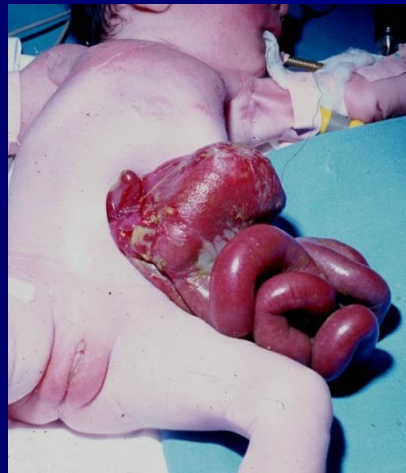


■ 1200-1800



■ 3400-3600

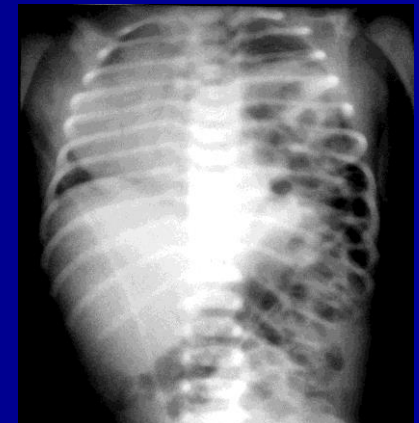
■ 300-800



■ 1200

-

2600



- General data
- Workload data
- Manpower data
- Ancillary data

- General data
- Workload data
- Manpower data
- Ancillary data

Inhab

Children

Inhab

Children

/
er

EUROPE 1 PS center every

1.081.000 inhab. - 167.500 children

Czech R.

1.328

198

Denmark

2.785

473

Estonia

1.258

196

Finland

329

52

France

1.250

234

Germany

931

121

Greece

2.155

304

Hungary

992

147

Ireland

1.611

345

Netherlands

2.813

475

Norway

2.574

468

Poland

518

76

Slovakia

1.361

207

Slovenia

994

133

Spain

1.061

163

Sweden

2.431

411

Switzerland

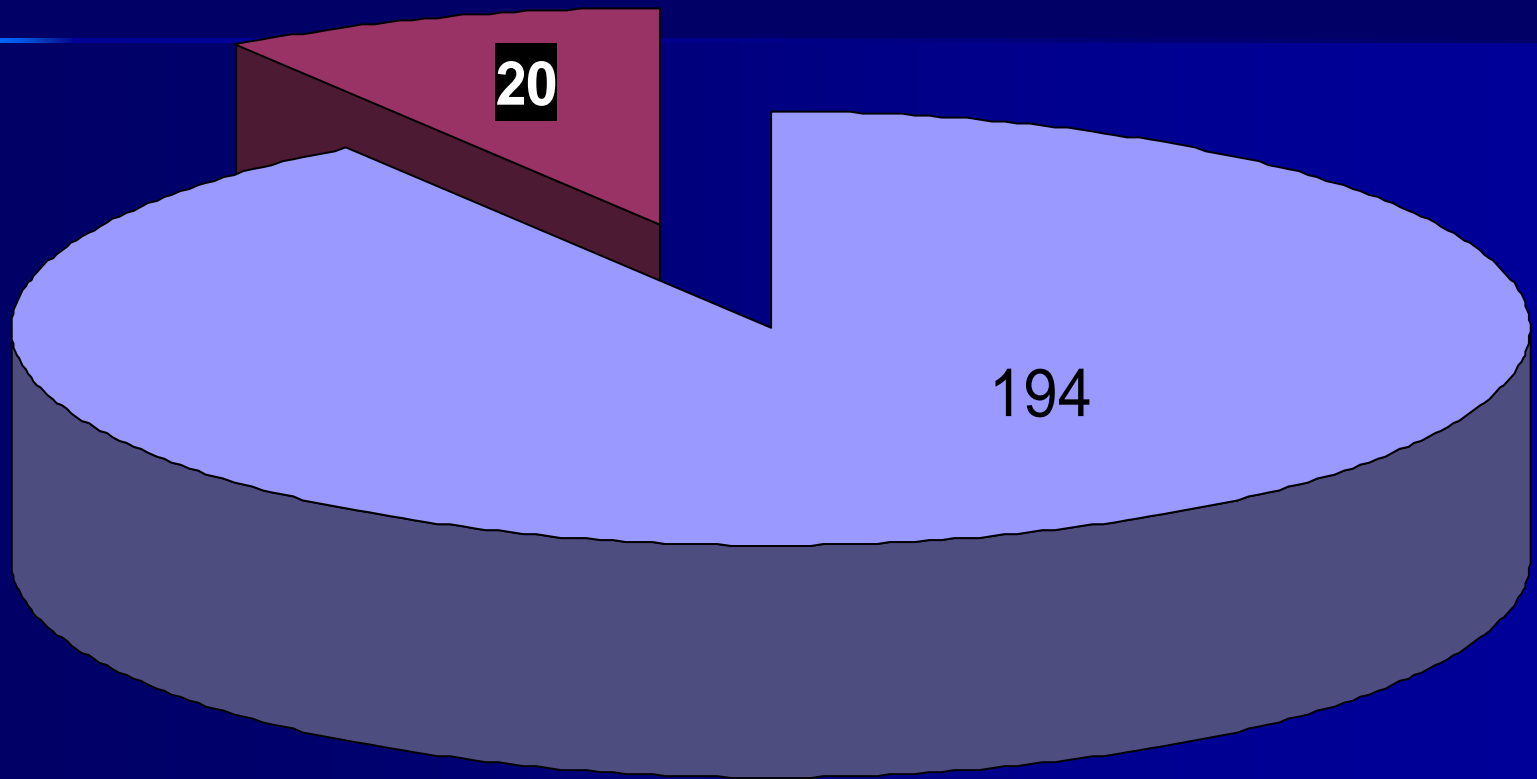
733

111

UK

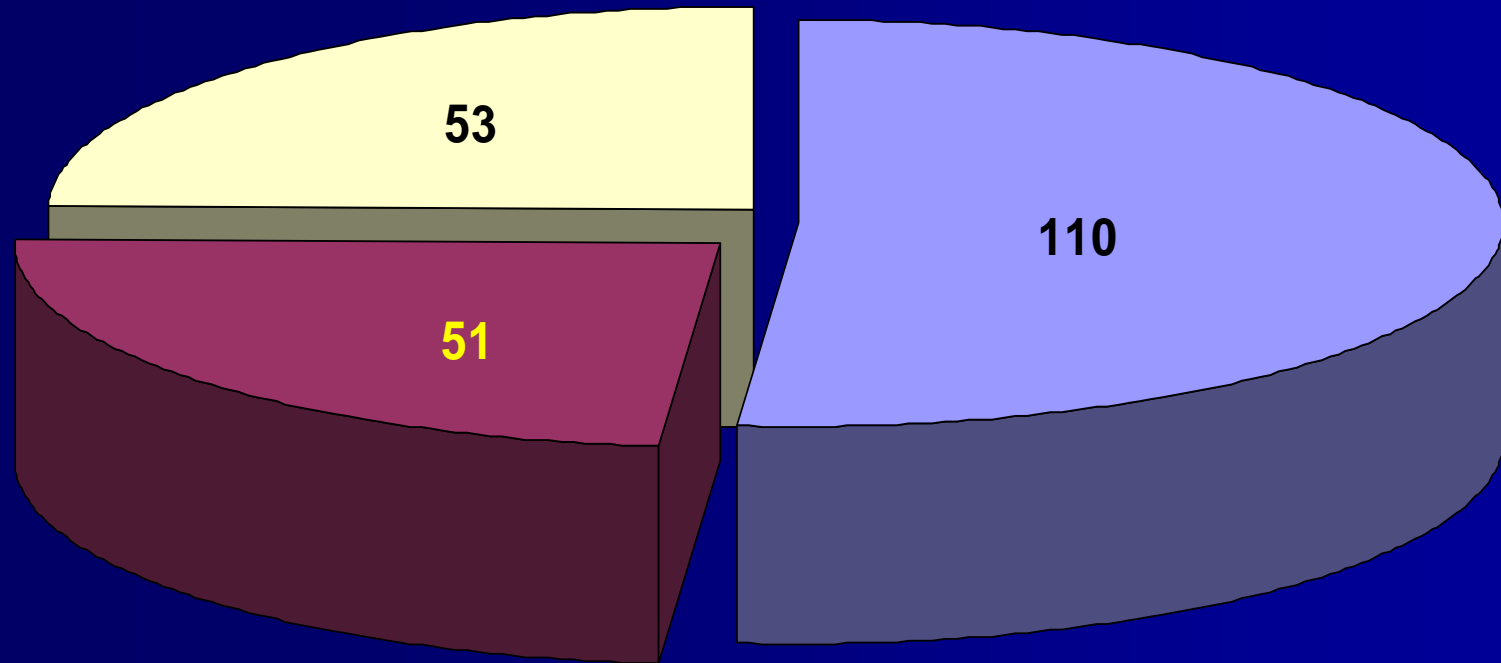
2.771

479



■ independent ■ affiliated another service

Type of the hospital

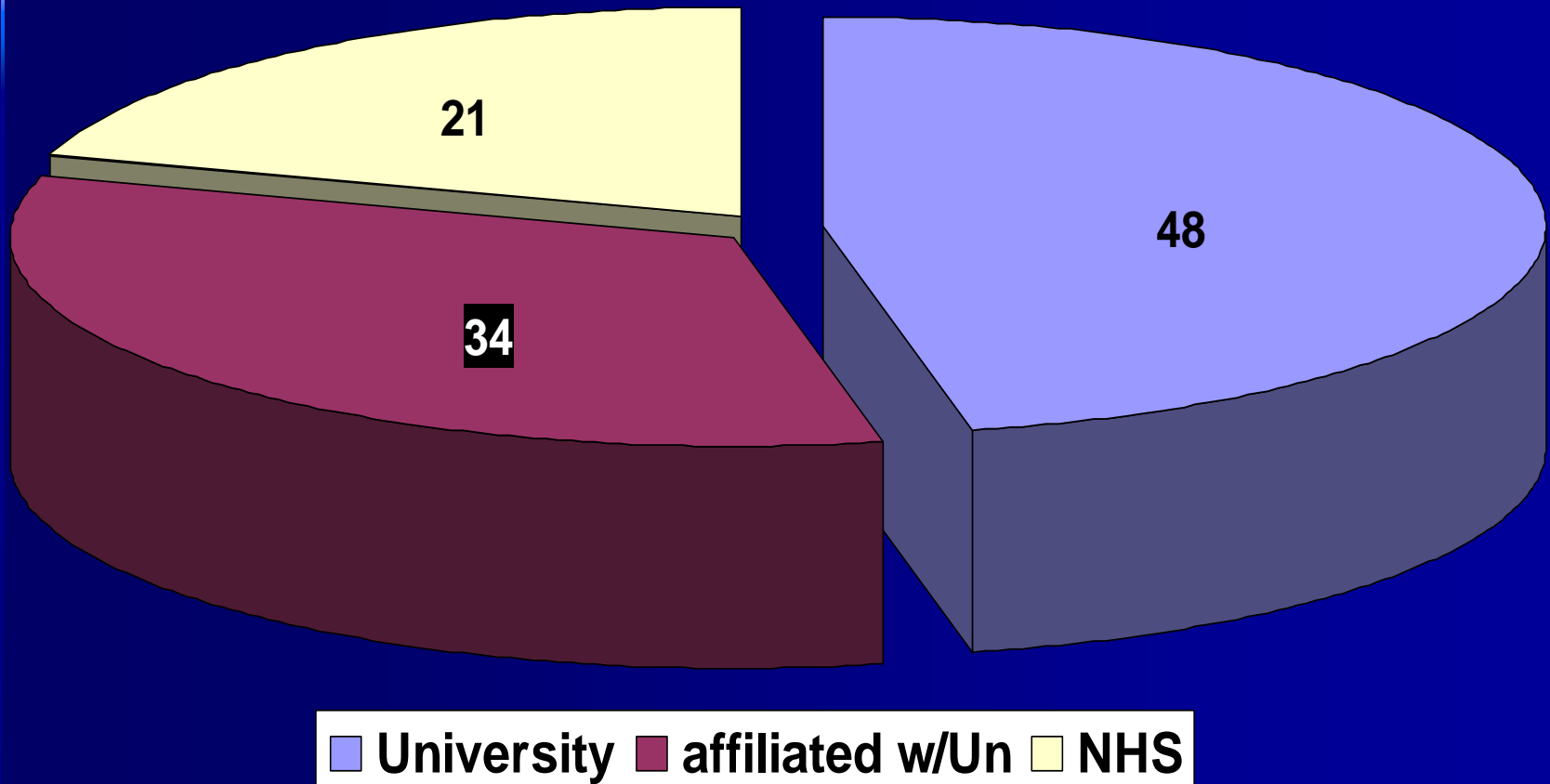


■ University

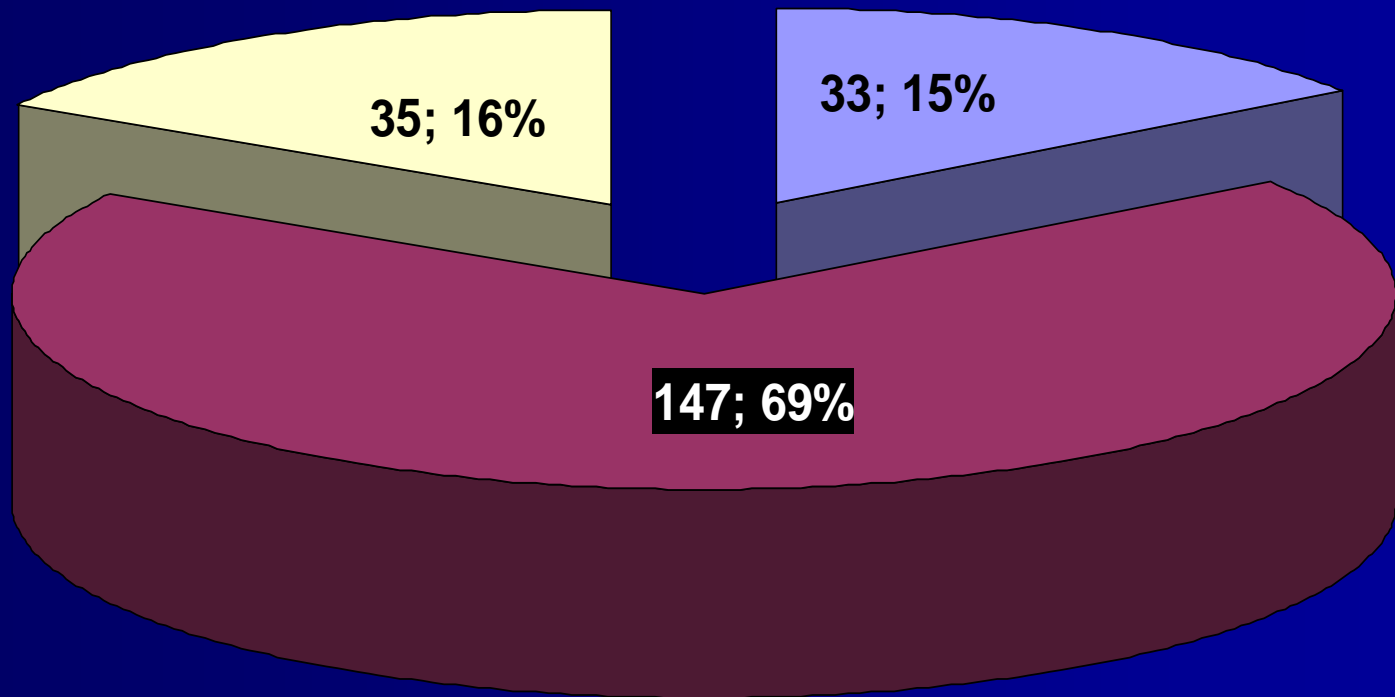
■ affiliated w/U

■ NHS

Type of the hospital

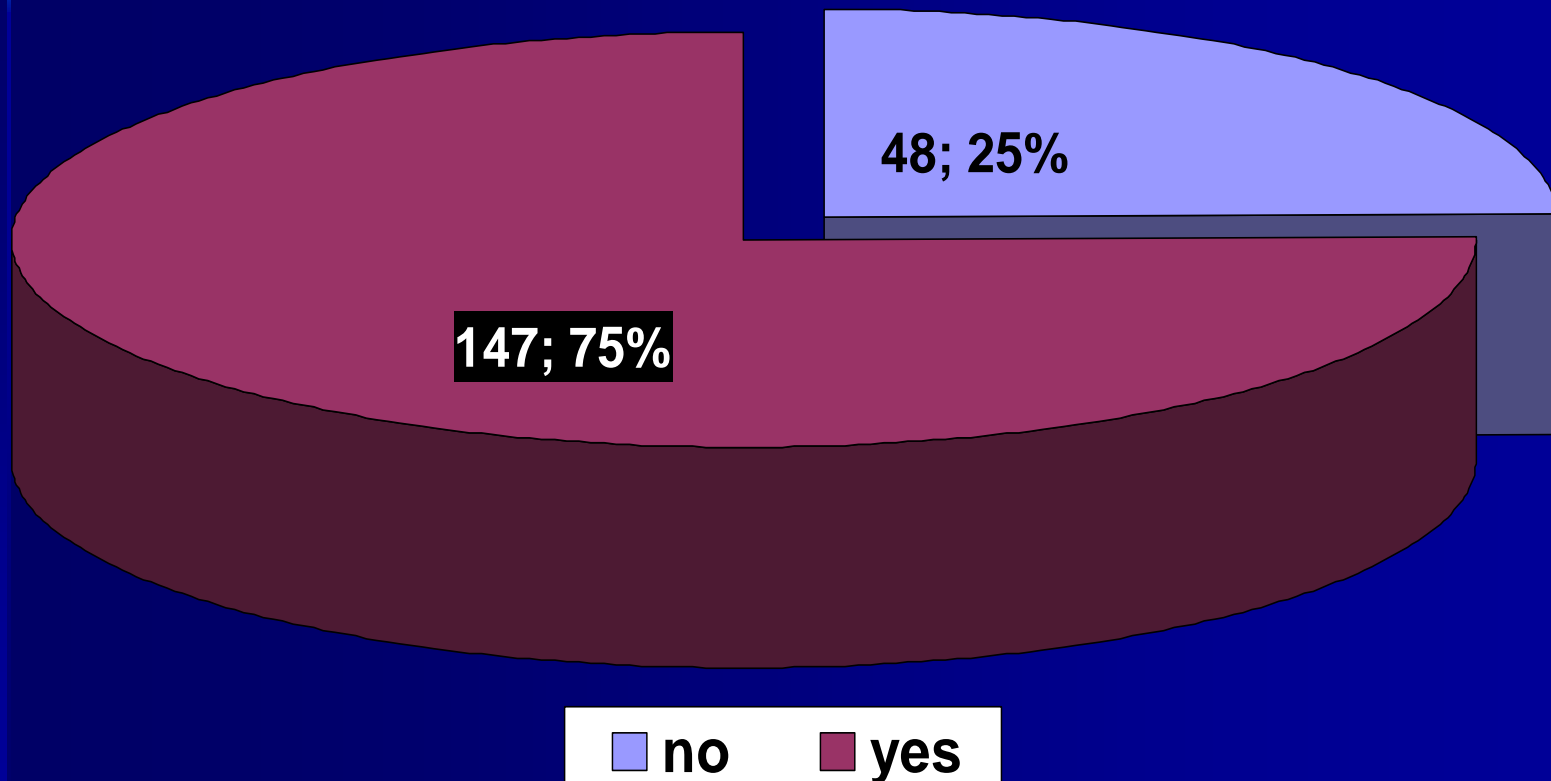


Upper age limit for admission



■ 12-14 yrs ■ 15-18 yrs ■ > 18 yrs

Training center in paediatric surgery ?



- General data
- Workload data
- Manpower data
- Ancillary data

country

Average
beds

Average
DS beds

BENELUX

30,5

8,9

CENTER

35,6

7,2

FRANCE

25,9

7,8

GERMANY

24,8

5,9

ITALY

18,3

5,5

NORTH

21,4

6,2

POLAND

33,8

4,9

SE-MED

31,8

6,6

SPAIN

20,6

7,0

EUROPE

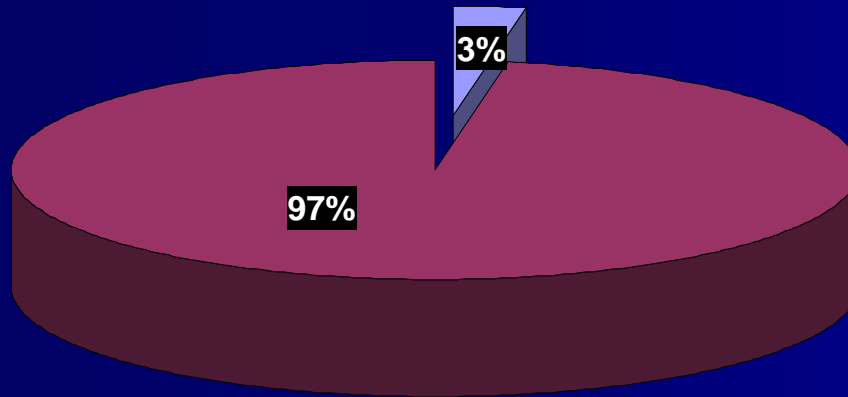
26,0

6,5

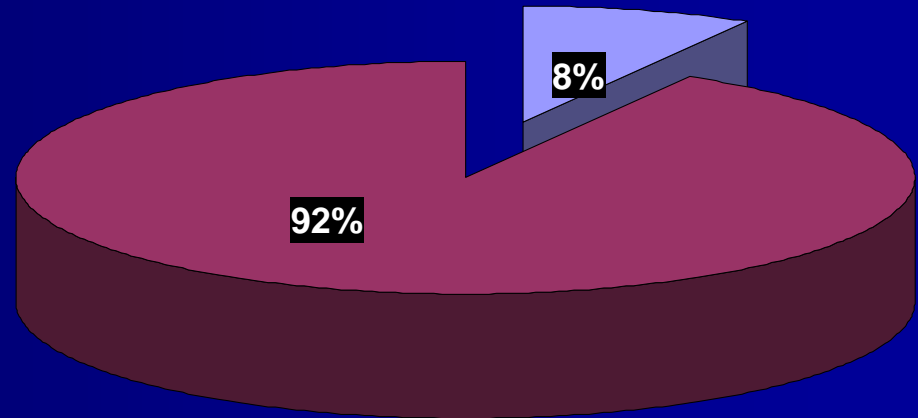
	Average in-patient admissions / year	Average in-patient operative procedures / year	Average neonatal surgical procedures / year
BENELUX	1009,1	1000,3	160,6
CENTER	2542,4	1926,1	77,5
FRANCE	2921,7	2360,0	73,1
GERMANY	1980,0	1407,3	129,2
ITALY	1663,8	1331,6	76,7
NORTH	1736,5	1397,3	112,3
POLAND	2315,4	1580,7	83,1
SE-MED	1944,3	1490,6	157,2
SPAIN	1484,0	1421,9	56,1
EUROPE	2023,1	1588,5	92,6

COUNTRY	Children / bed	Children / bed DS	1 child admitted every...	1 child operated every...	1 neonate operated every...
Austria	4.497	29.466	51	63	87
Belgium	10.654	39.759	375	358	387
Bulgaria	7.338	27.314	136	171	63
Croatia	3.394	21.608	51	65	81
Cyprus	4.383	16.734	62	84	52
Czech R.	4.303	68.847	76	100	153
Denmark	33.812	135.249	270	316	259
Hungary	5.826	24.066	70	90	228
Italy	9.133	32.488	100	125	158
Luxembourg	6.657	11.650	169	186	245
Netherlands	14.190	59.422	383	399	132
Norway	26.769	117.112	646	586	366
Slovakia	6.221		108	144	371
EUROPE	7.974	38.020	111	138	164

Emergencies - Trauma

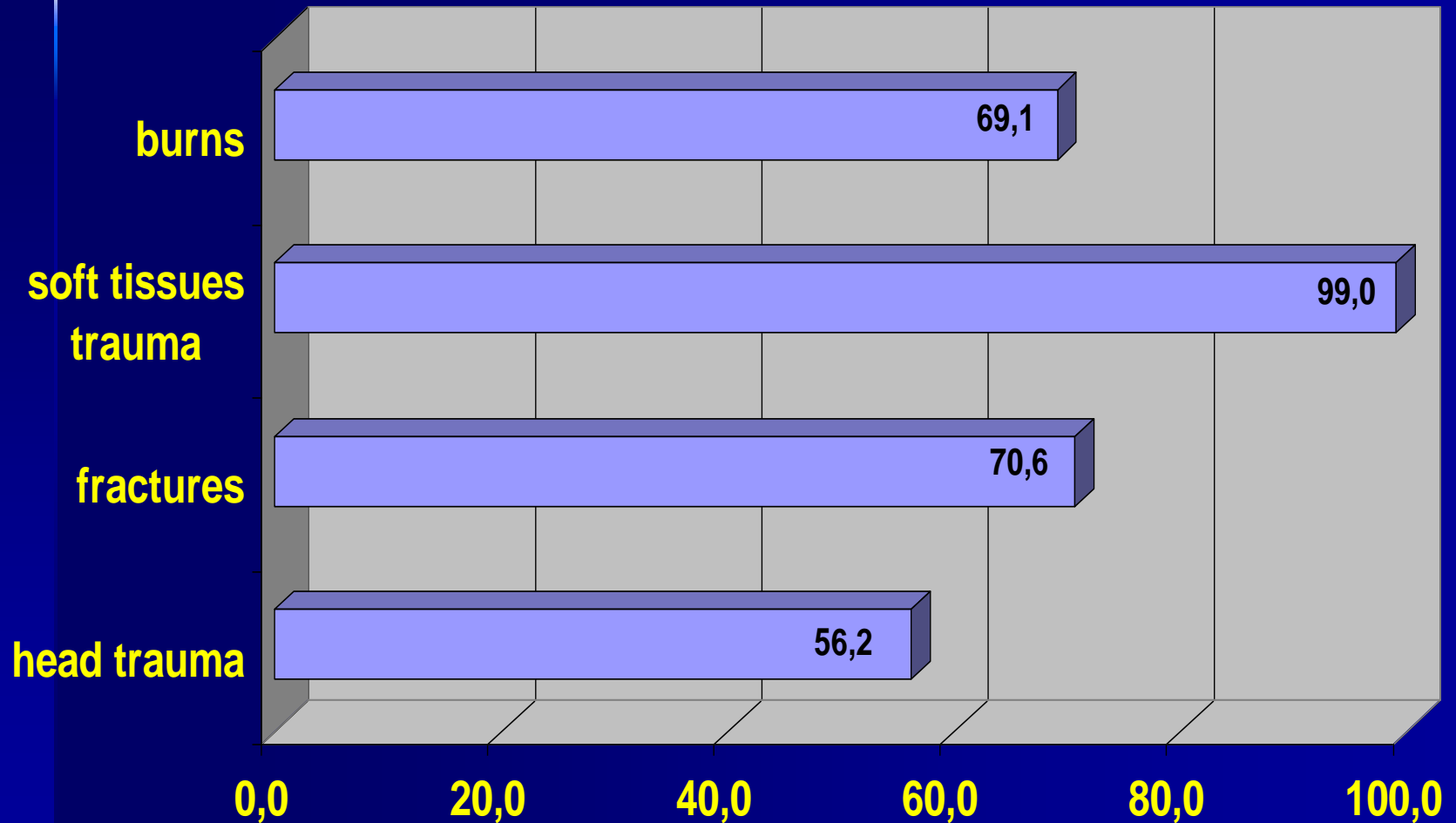


no yes



no yes

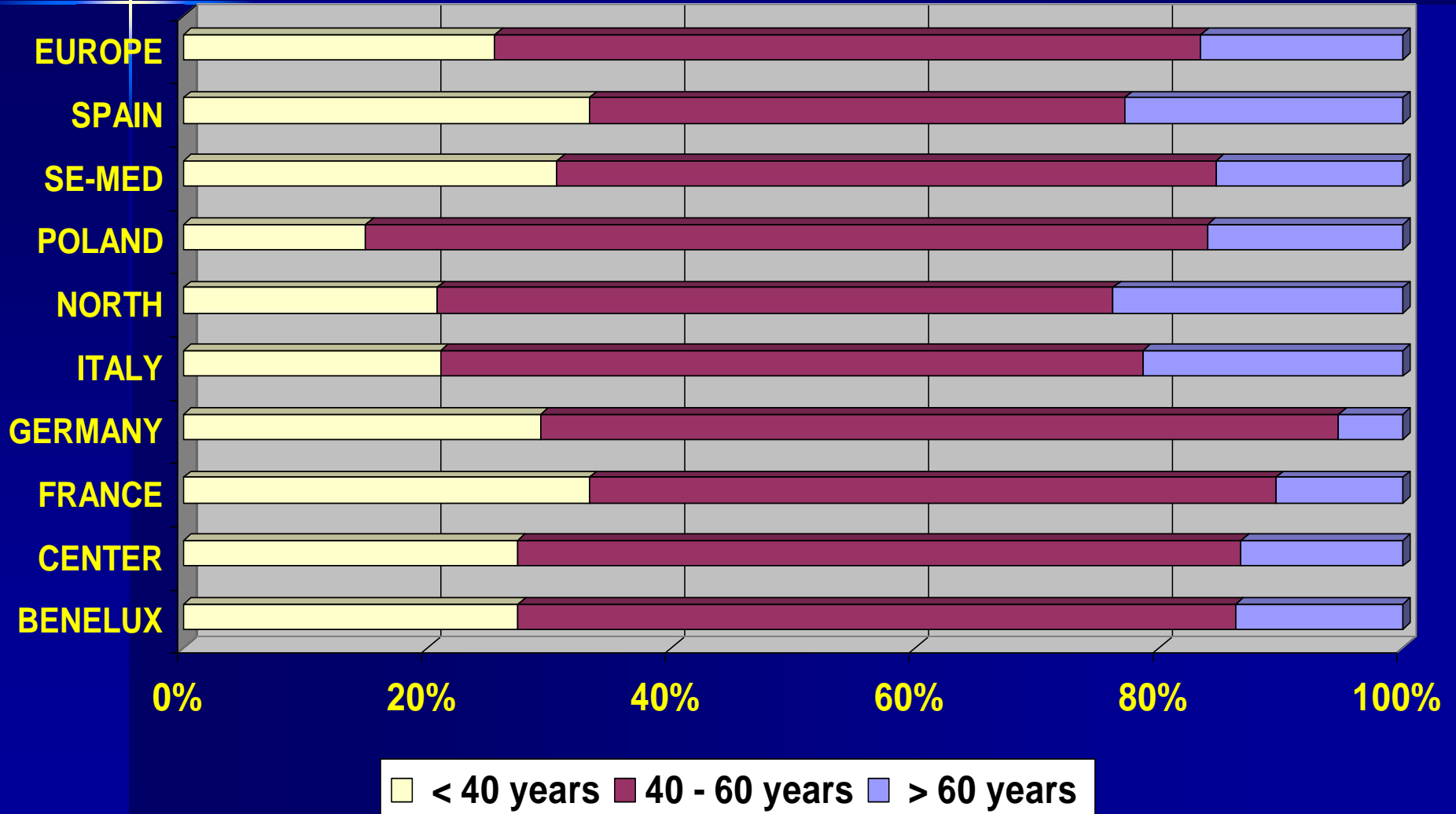
Typology of trauma treated



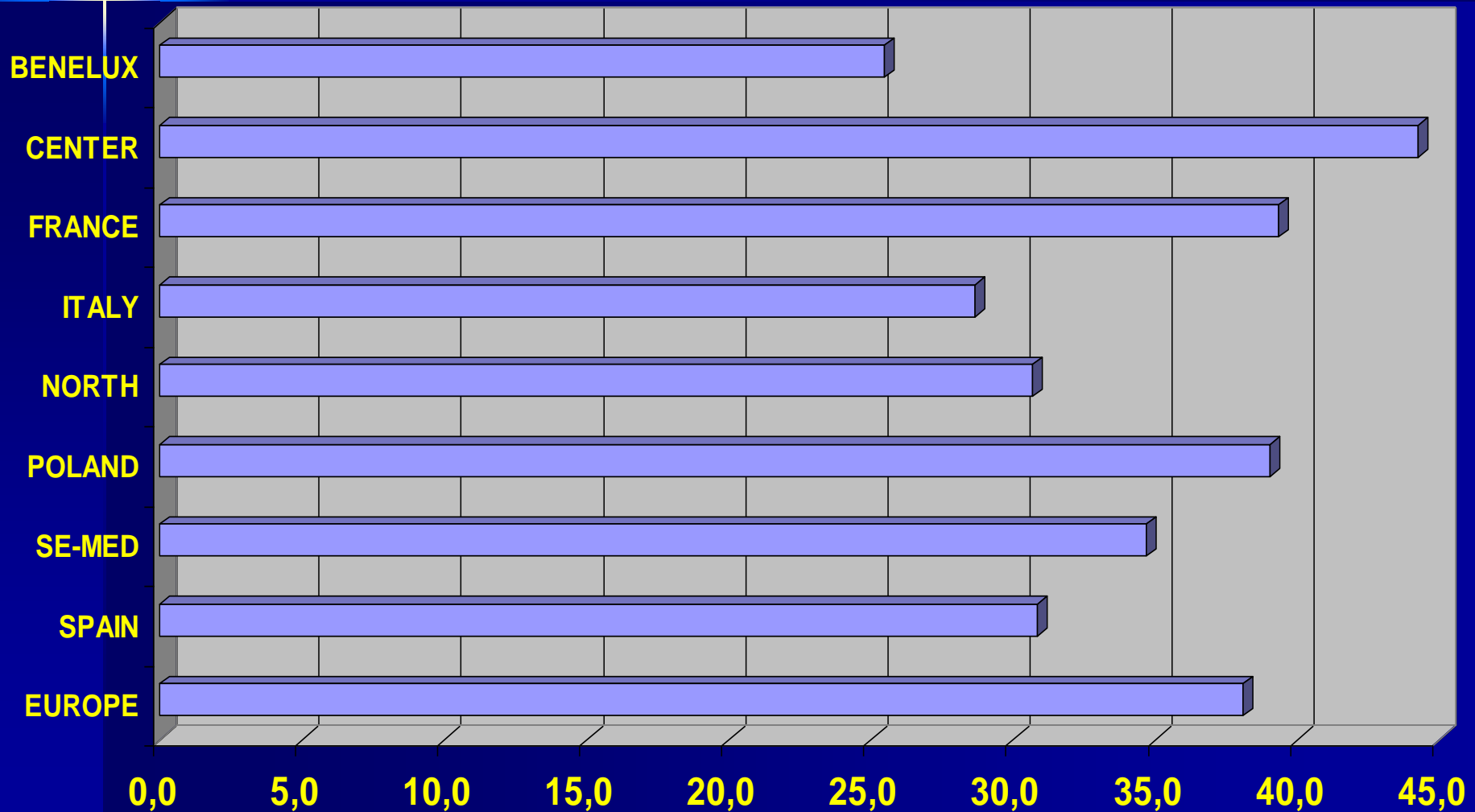
- General data
- Workload data
- Manpower data
- Ancillary data

Country	total estimated staff	children x surgeon	neonates x surgeon
Austria	67	16712	1076
Belgium	19	85795	5494
Bulgaria	44	22348	1404
Croatia	42	15434	1010
Cyprus	8	23009	1677
Czech Rep.	69	22961	1509
Denmark	10	94674	5692
Hungary	59	24988	1563
Italy	440	19363	1240
Luxembourg	3	31067	2039
Netherlands	35	81634	5231
Norway	15	62460	4149
Slovakia	31	26691	1758

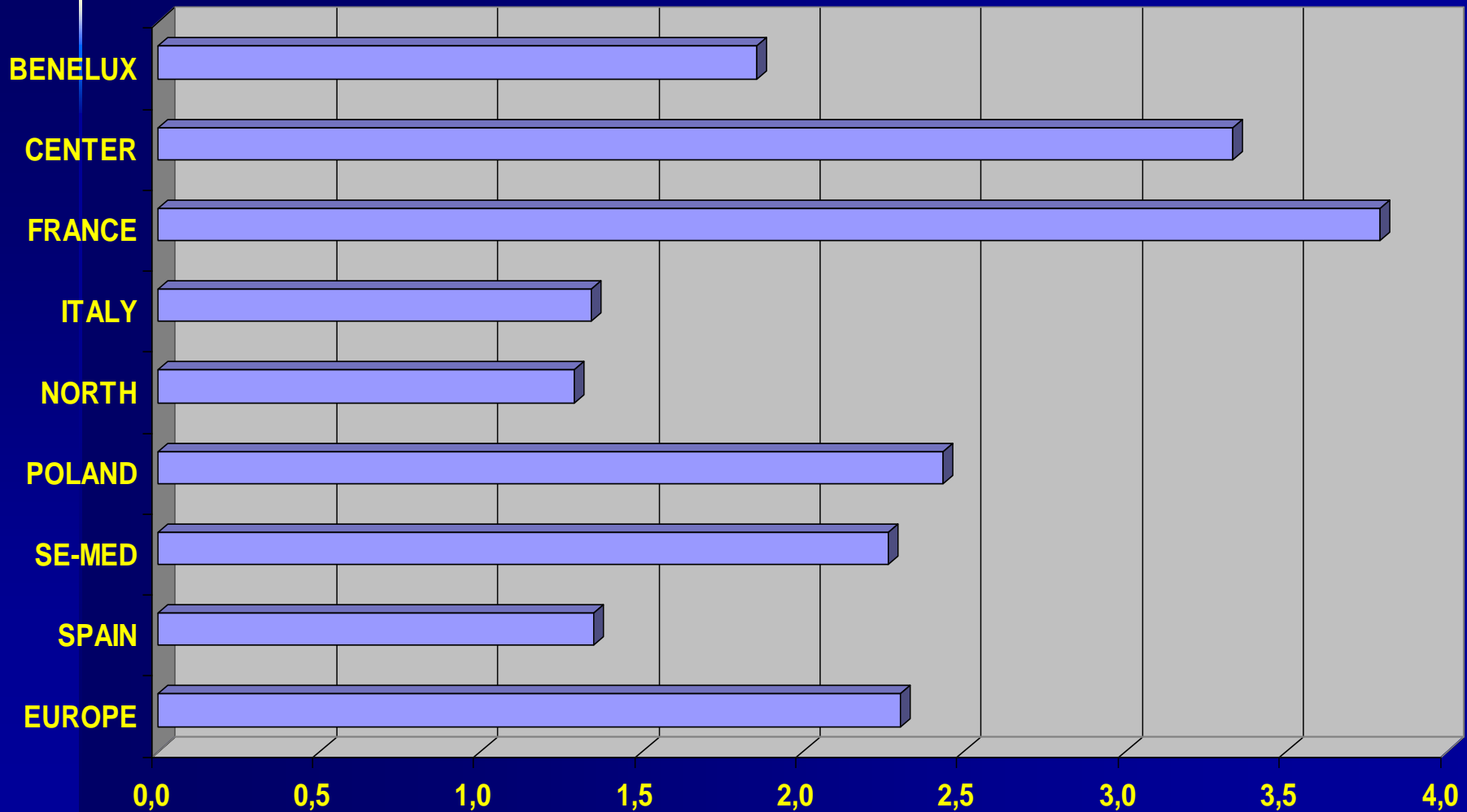
Staff age distribution



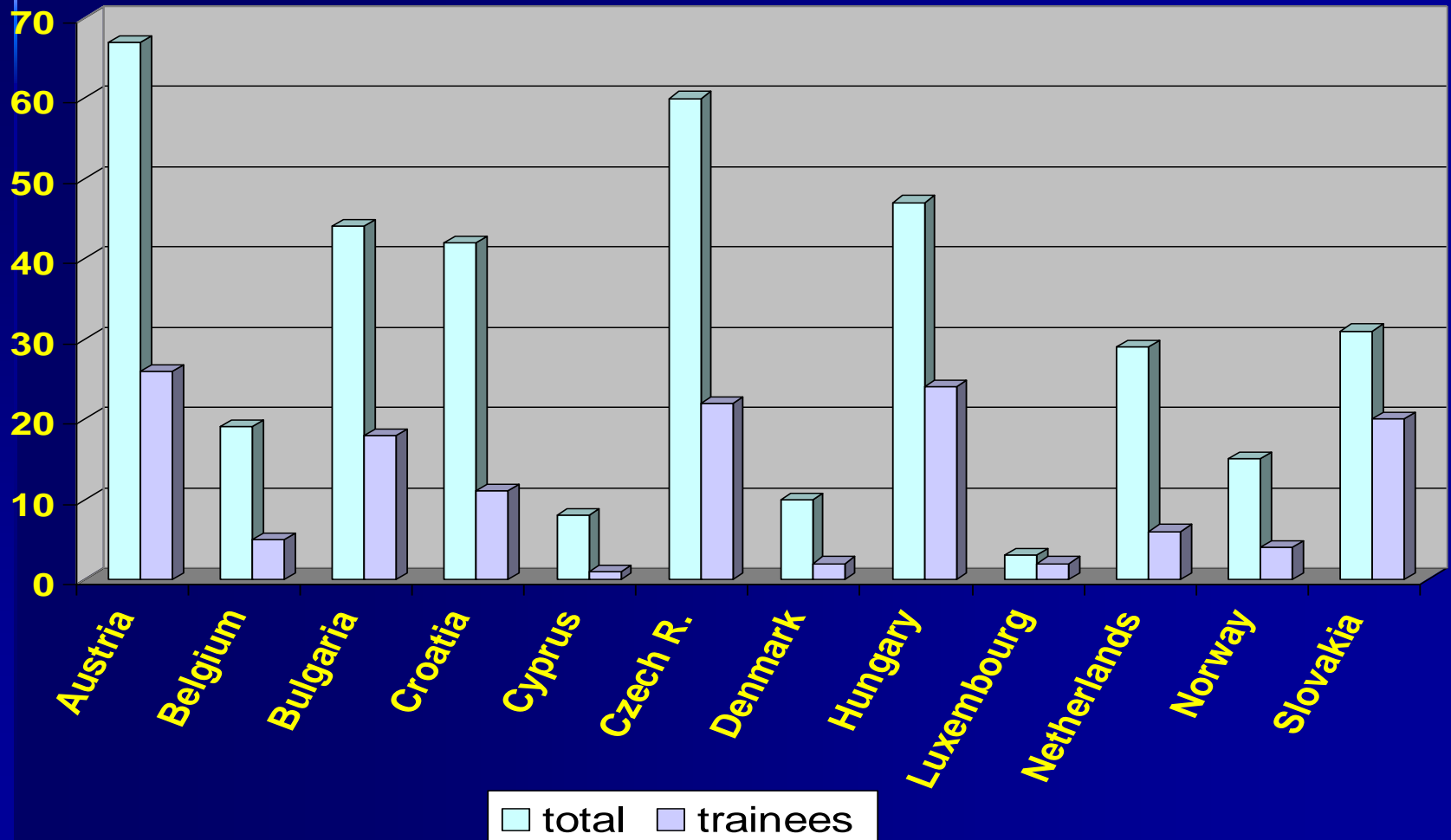
Staff / trainee ratio (%)



Trainees / > 60 ratio



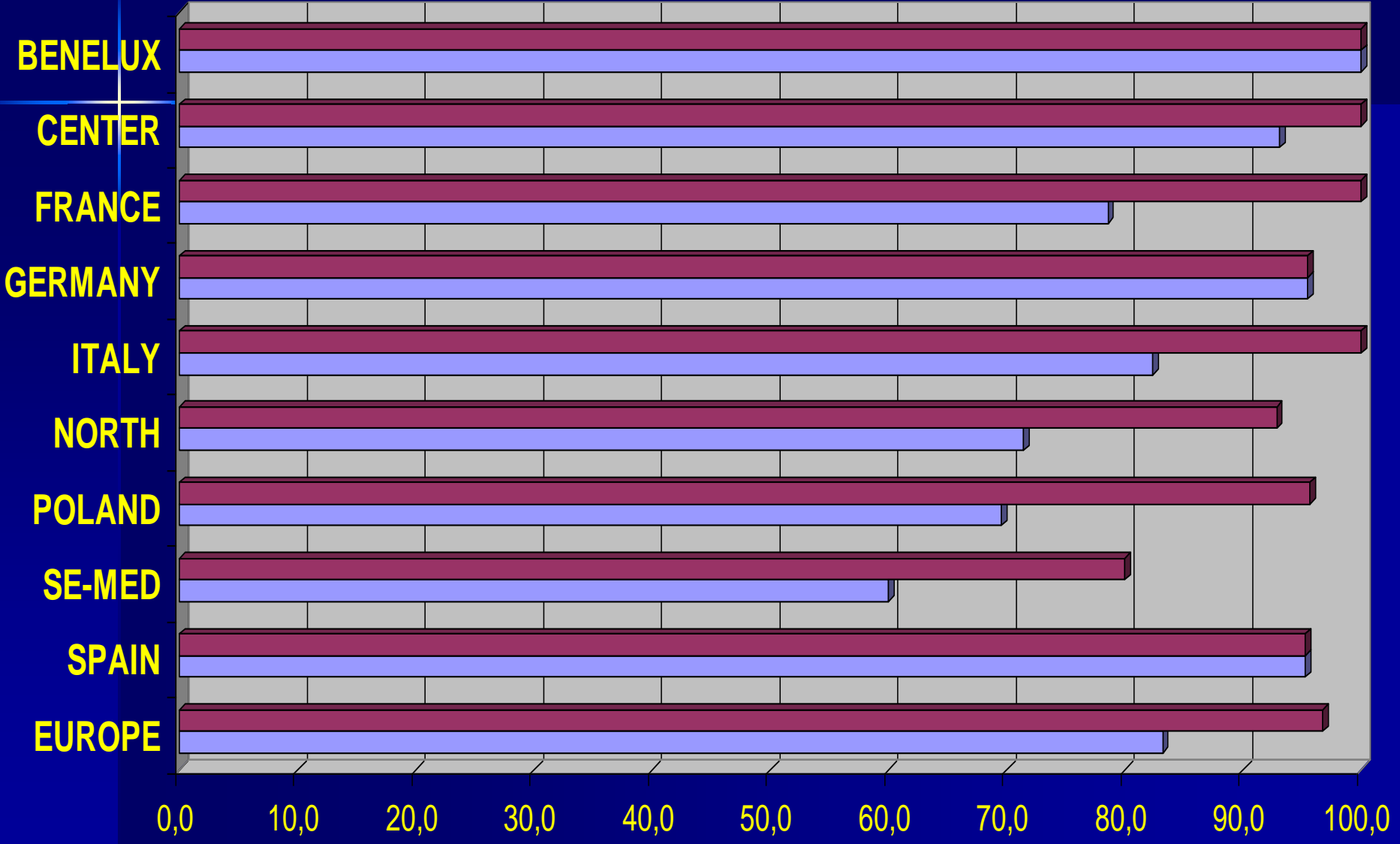
Staff / trainee ratio (abs)



- General data
- Workload data
- Manpower data
- Ancillary data

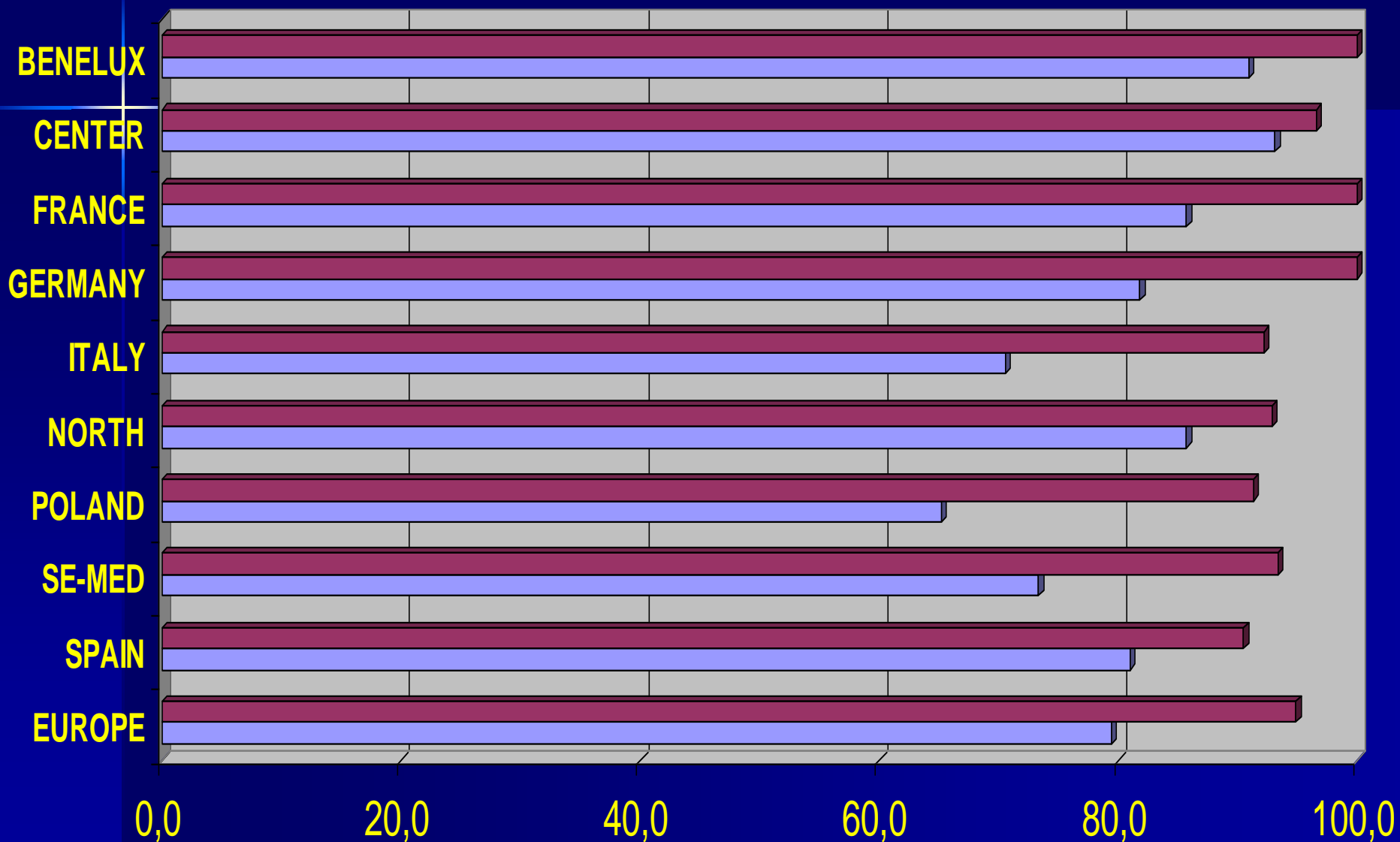
thoracoscopic surgery

laparoscopic surgery



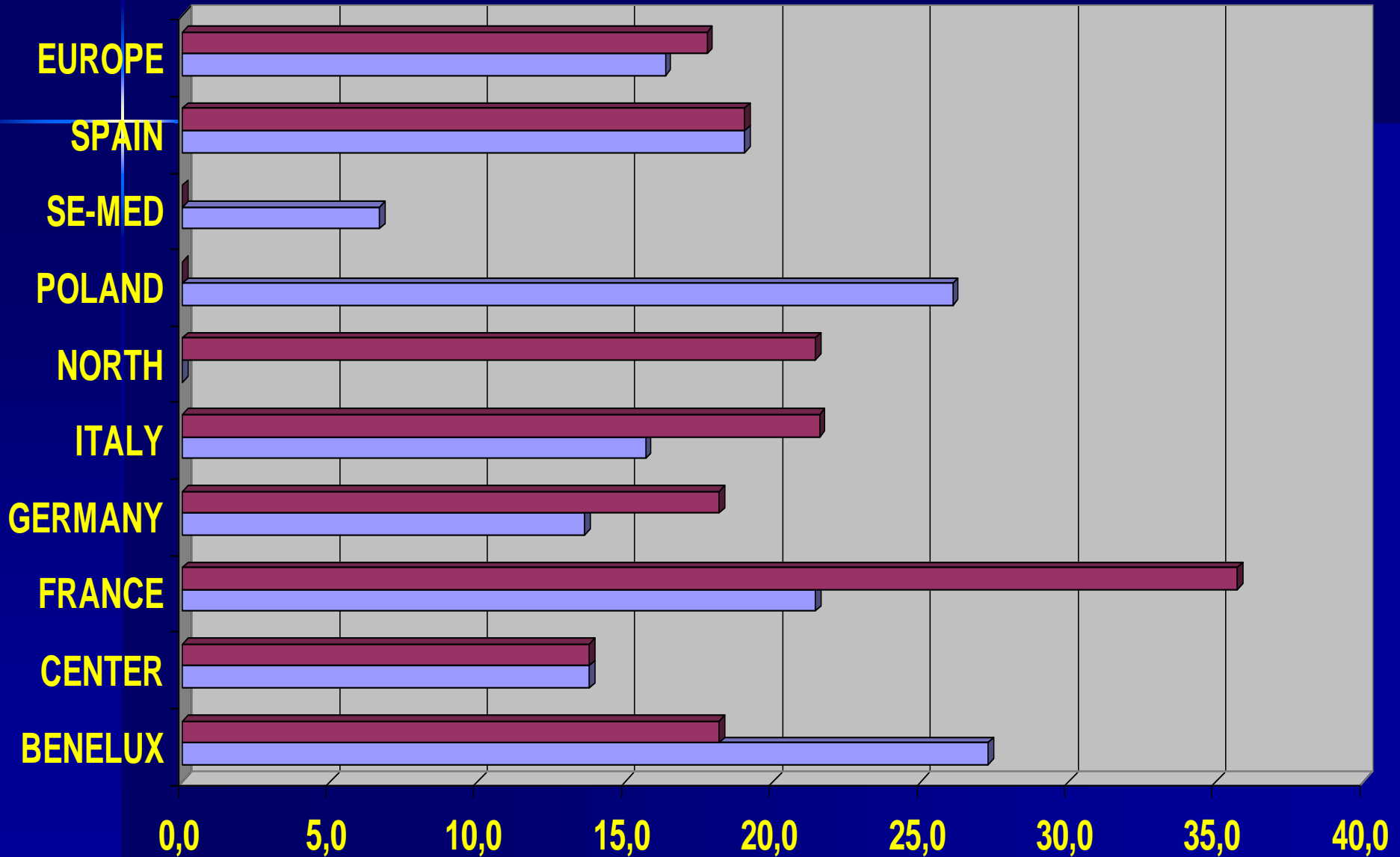
■ resp tract endoscopy

■ GI tract endoscopy

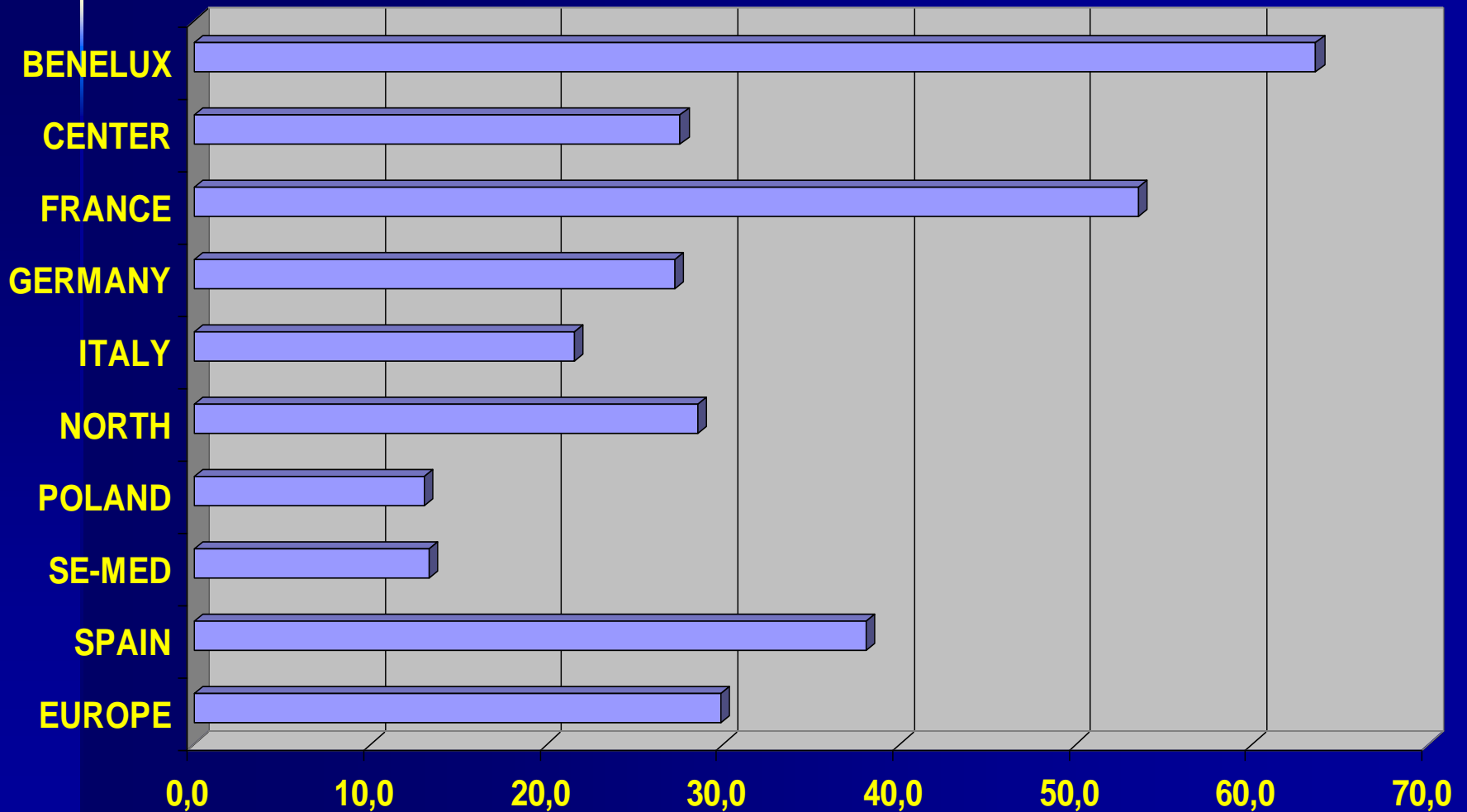


fetal surgery

robotic surgery

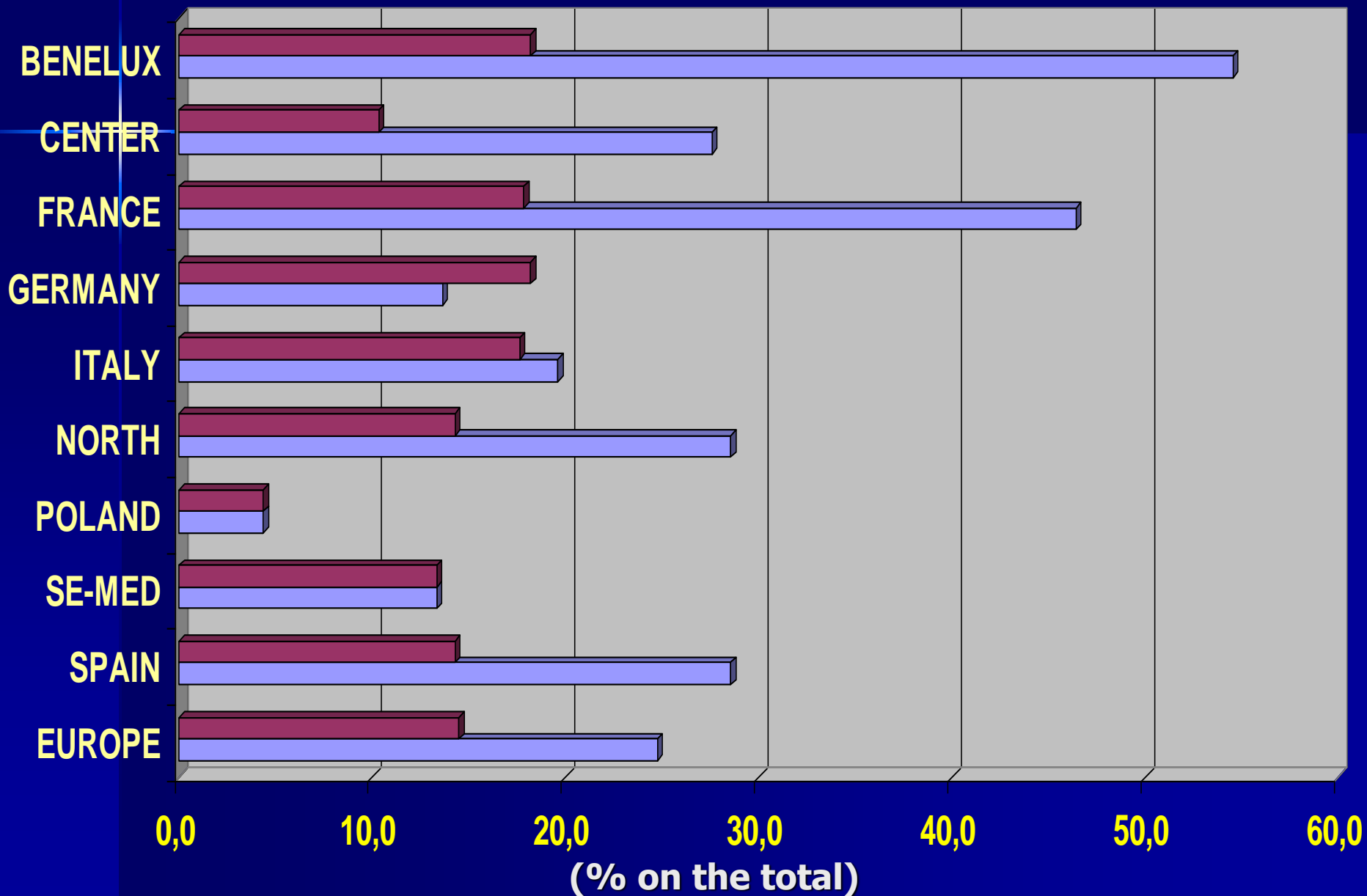


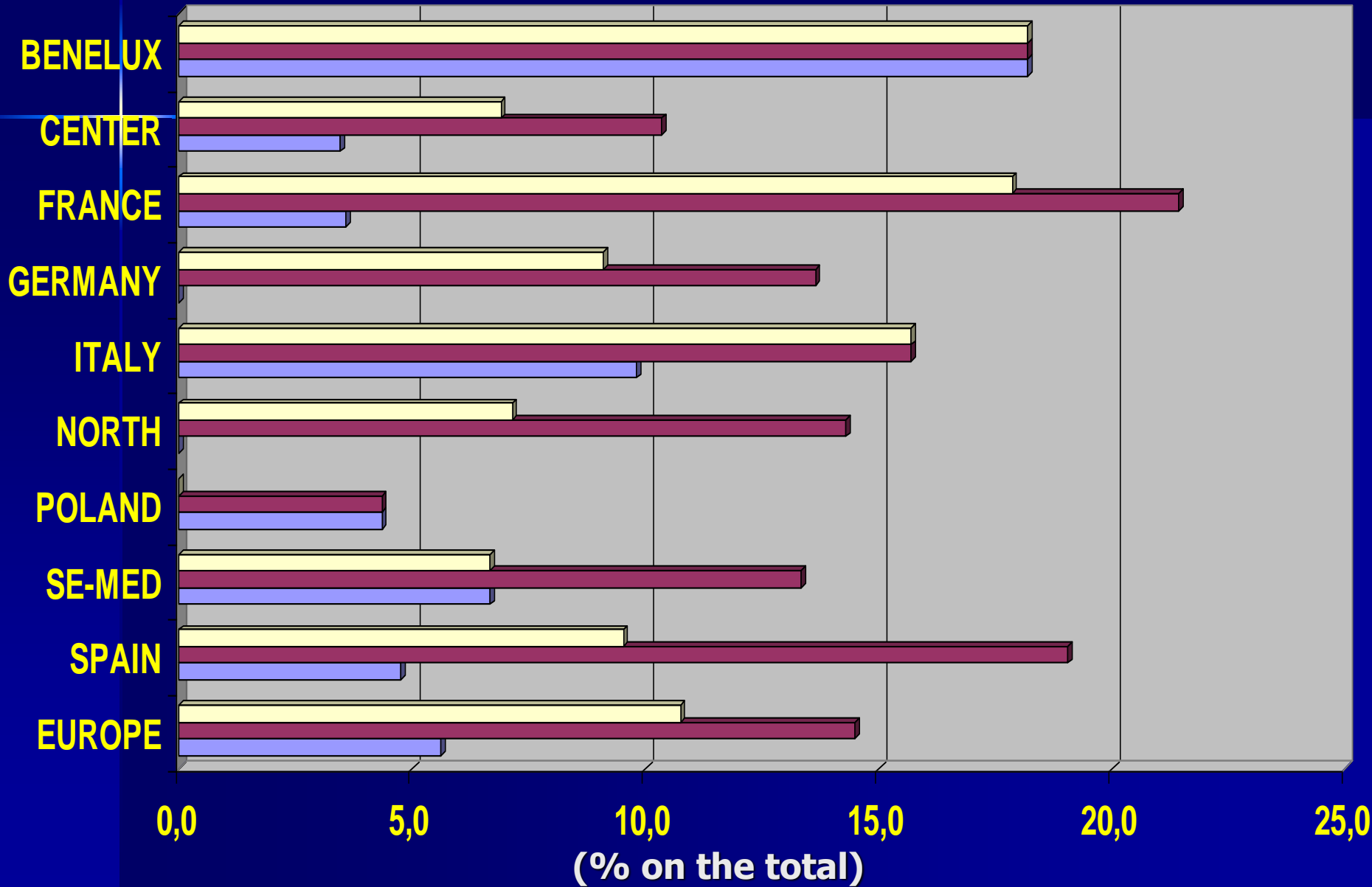
Transplant centers (% on the total)

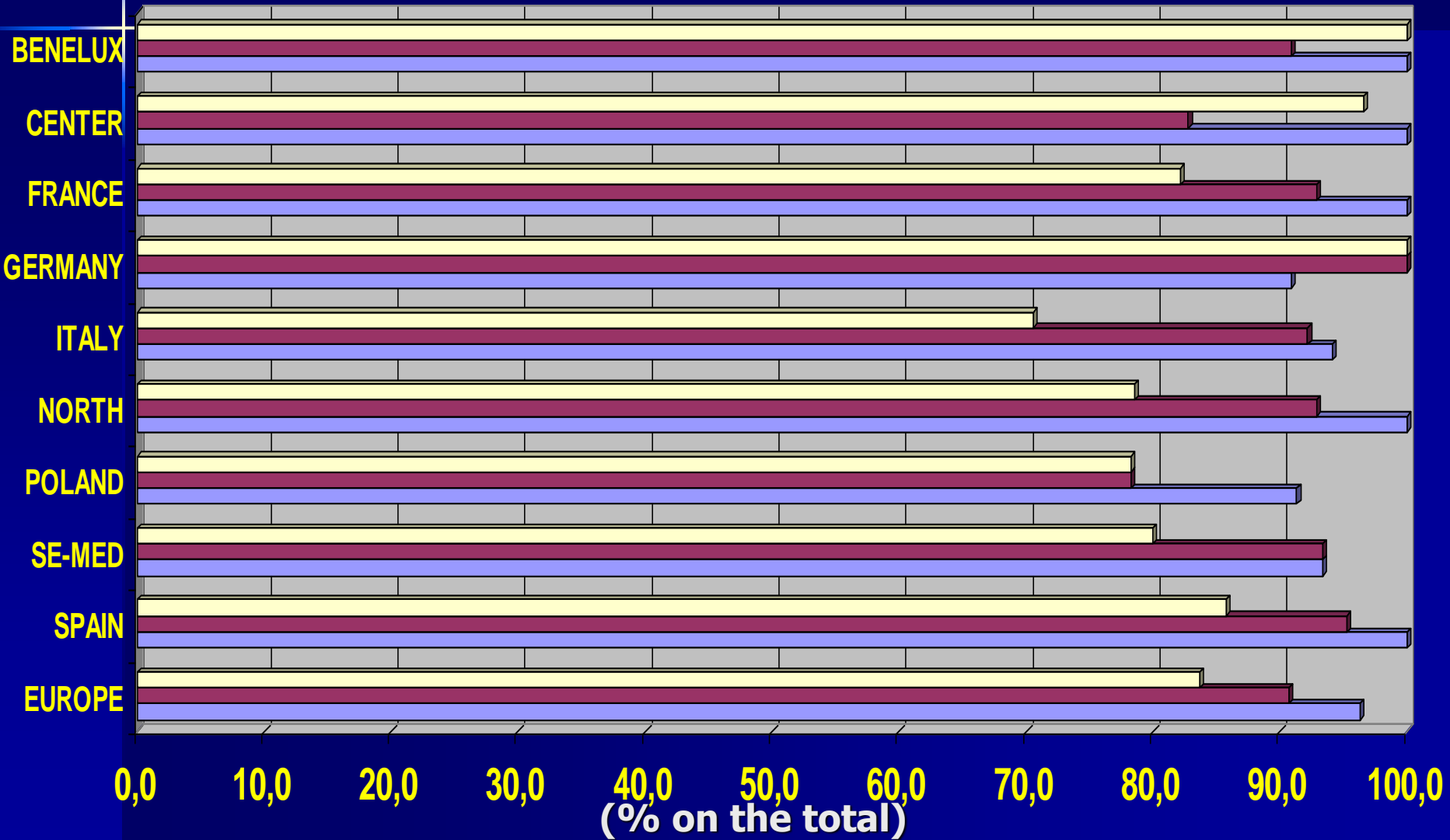
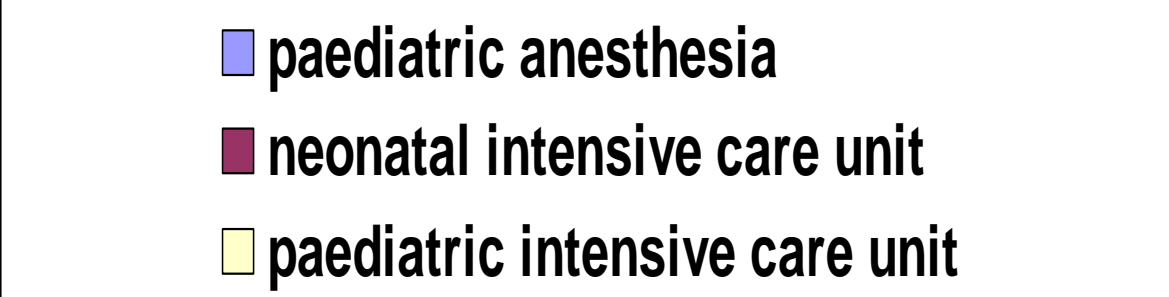


kidney

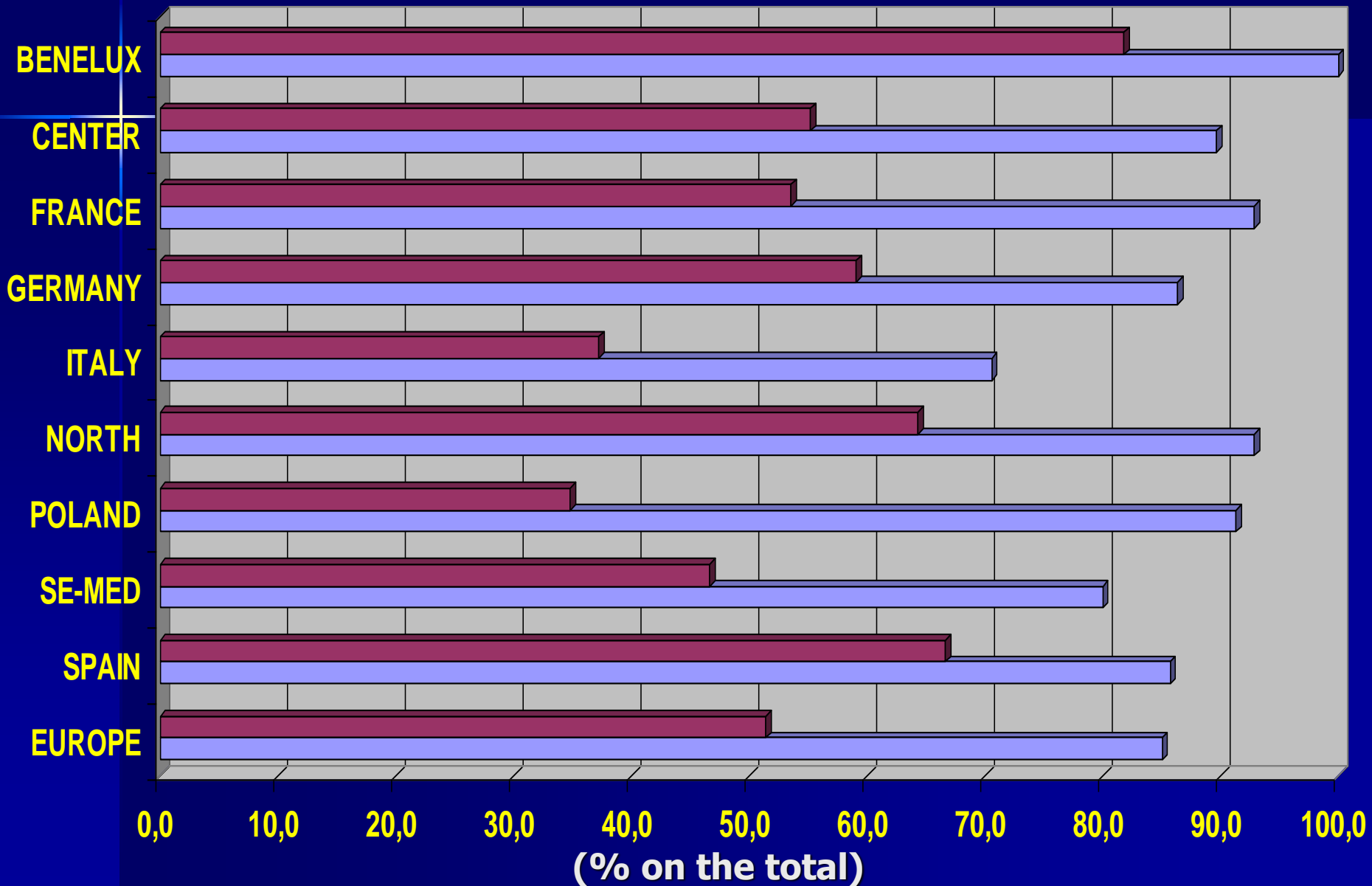
liver



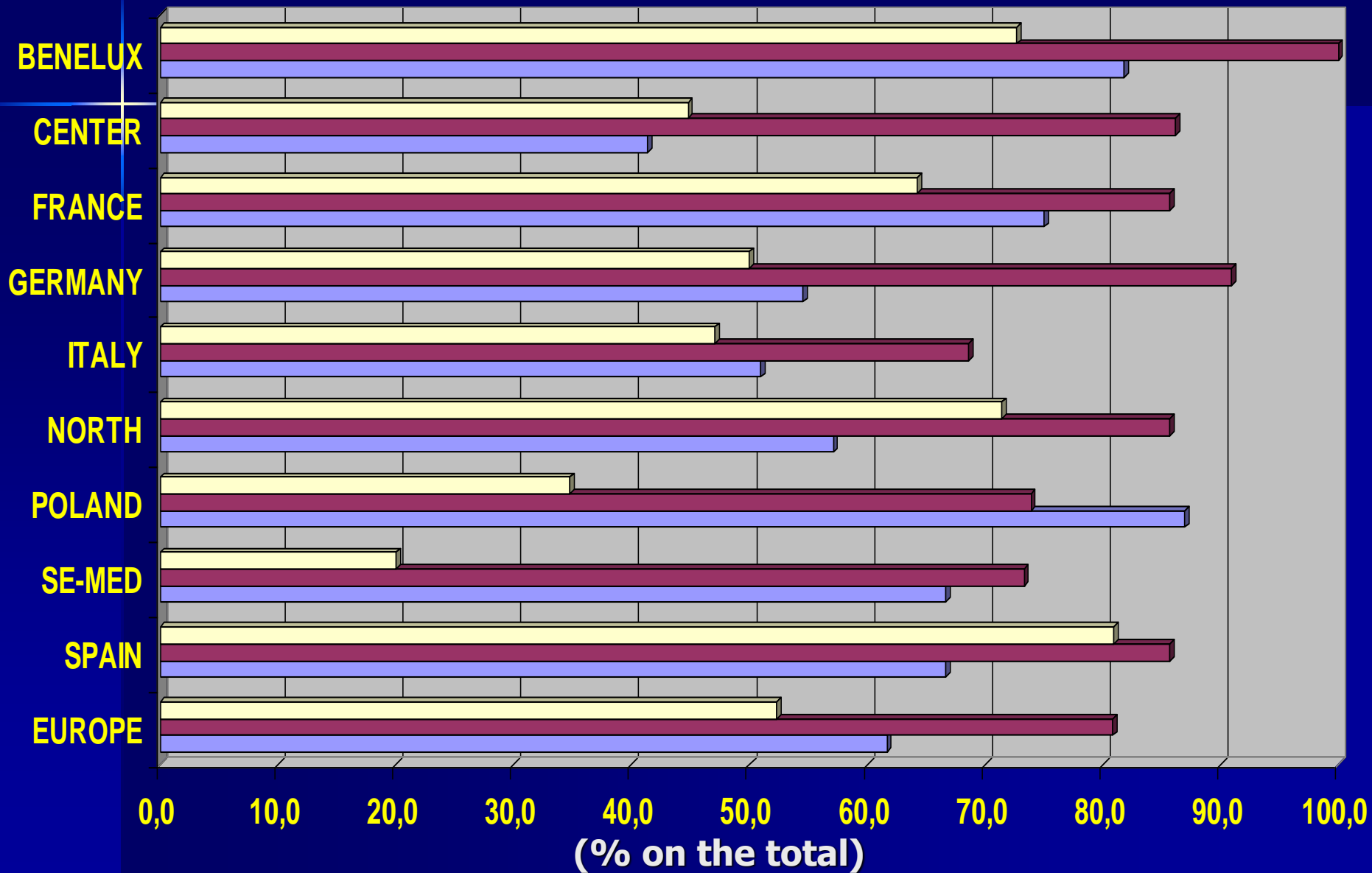




■ paediatric radiology ■ paediatric interventional radiology



■ paediatric pathology ■ library ■ research laboratory





data
data
data

data

data

data

data

DATA



European Census of Paediatric Surgery



eurocensus@gmail.com