

changing diabetes barometer international seminar

Oxford, 8-9 December 2008



EUropean Core Indicators in Diabetes EUCID

DG-Sanco project
2006-2007

Grant agreement 2005109

Indicators on Diabetes and risk factors for diabetes



35 indicators

- General population
- Diabetes population
 - Biochemacal
 - Physical
 - Complications
- Represented as
 - Bargraphs
 - Age bands
 - Maps
 - Spiderwebs

Work accomplished:

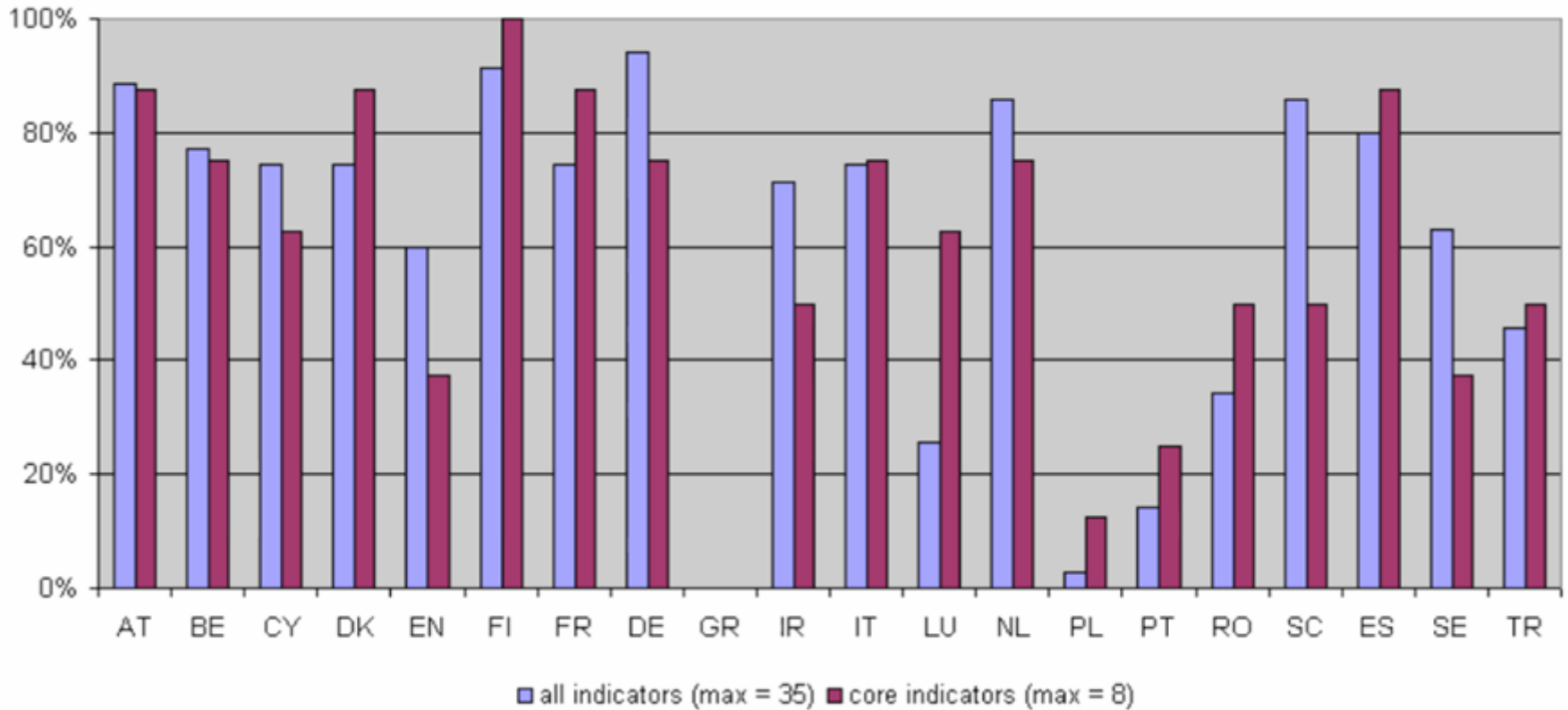
- Final meeting Luxembourg 15 and 16-11-2007
- Final analyses finished februari 2008
- End of project 31-12-2007
- Final report available (public) on website February 2008 (www.eucid.eu)
- Project continues inside EUBIROD

Examples of EUCID indicators

- Data availability
- Prevalence of diabetes / Incidence in children
- Prevalence of obesity in general population
- HbA1c process and outcome
- Blood pressure process and outcome
- Renal function in diabetes
- Myocardial Infarction in diabetes
- Spider webs of process and outcome

Data Availability

Percentage of data available for all indicators and core indicators



Data Availability And Useability

An "X" indicates that data was entered in the website but could not be used for analysis for several reasons as described in the section of rules for use. A list of the country abbreviations is given in appendix 1.

	AT	BE	CY	DK	EN	FI	FR	DE	GR	IR	IT	LU	NL	PL	PT	RO	SC	ES	SE	TR	Total	
Prevalence of diabetes	✓	✓	✓	✓	✓	✓	✓	x		✓	x	✓	✓		✓	✓	✓	✓	✓	✓	x	18
Incidence age 0-14 years	✓	x		✓	✓	✓	✓	✓			x	✓	✓	✓		✓	✓	✓	✓	✓	✓	14
BMI general population > 30	✓	✓	✓	✓	✓	x	✓	✓		x	✓	✓	✓			✓		✓	✓	✓	✓	16
BMI general population > 25	✓	✓	✓	✓	✓	x	✓	✓		x	✓	✓	✓			x		✓	✓	✓	✓	16
Impaired fasting glucose in general population			✓			x		x									x		✓	✓	✓	5
HbA1c tested	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	16
HbA1c	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	x	15
Cholesterol tested	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	15
Cholesterol > 5 mmol/l	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	x	15
LDL-Cholesterol tested	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				✓	✓	✓	✓	✓	13
LDL-Cholesterol > 2.6 mmol/l	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				✓	✓	✓	✓	x	14
HDL-Cholesterol tested	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	14
HDL-Cholesterol <1.0 men and <1.25 women	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓				✓	✓	✓	✓	x	12
Triglycerides tested	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	14
Triglycerides < 2.3 mmol/l	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	x	13
Albuminuria tested	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	12
Albuminuria abnormal	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	x	12
Blood pressure tested	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	14
Blood pressure >140/90	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	x	15
BMI in diabetes population tested	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	14
BMI in diabetes population => 25	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			x	✓	✓	✓	✓	x	15
BMI in diabetes population => 30	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	x	✓	✓	x	15
Smoking in diabetes population	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	x	15
Fundus tested	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	11
Retinopathy	✓	✓		✓	✓	✓	✓	✓		✓	x	✓	✓			✓	✓	✓	✓	✓	x	8
Retinopathy and timely laser treatment							✓										x					2
Incidence of blindness	✓				✓		✓										x				✓	5
Creatinine tested	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	13
ESRF		✓	✓		✓	✓	✓	✓		x		✓	✓			✓	✓	✓	✓	✓	x	11
Incidence of dialysis and transplantation	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	9
Prevalence of dialysis and transplantation	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	11
Incidence of stroke	✓		✓	✓	✓	x	✓	✓		x	✓	✓	✓			✓	✓	✓	✓	✓	✓	12
Incidence of myocardial infarction	✓		✓	✓	✓	x	✓	✓		x	✓	✓	✓			✓	✓	✓	✓	✓	✓	12
Incidence of major amputation	✓			✓	✓	x	✓	✓		x	✓	✓	✓			✓	✓	✓	✓	✓	✓	12
Mortality due to diabetes	✓	x																				12
Total available	32	27	26	28	24	33	26	33	0	25	29	9	30	1	5	13	30	30	30	30	11	441

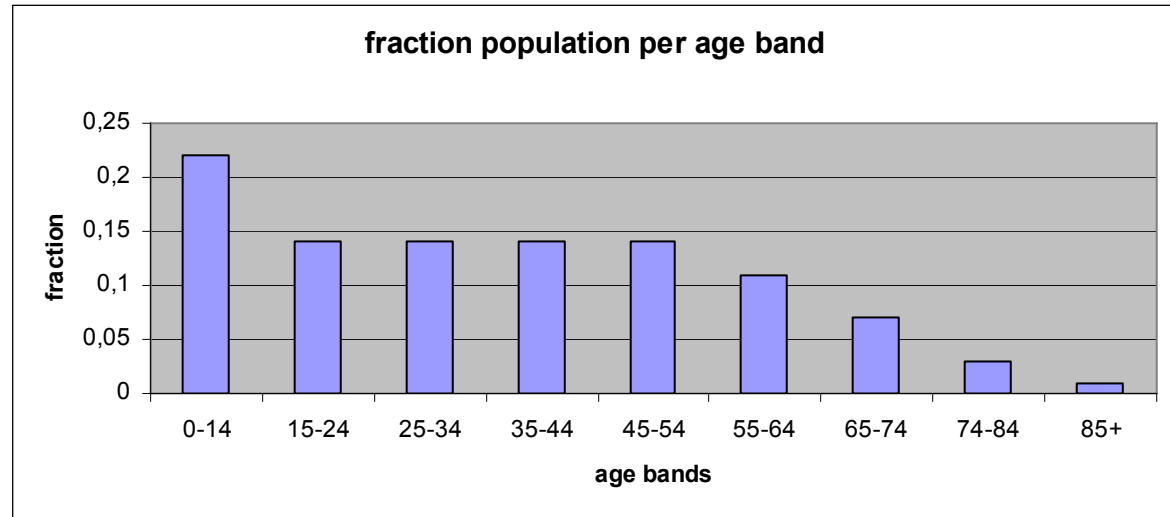
International Diabetes Federation Europe

The Oxford Health Alliance
Confronting the Epidemic of Chronic Disease

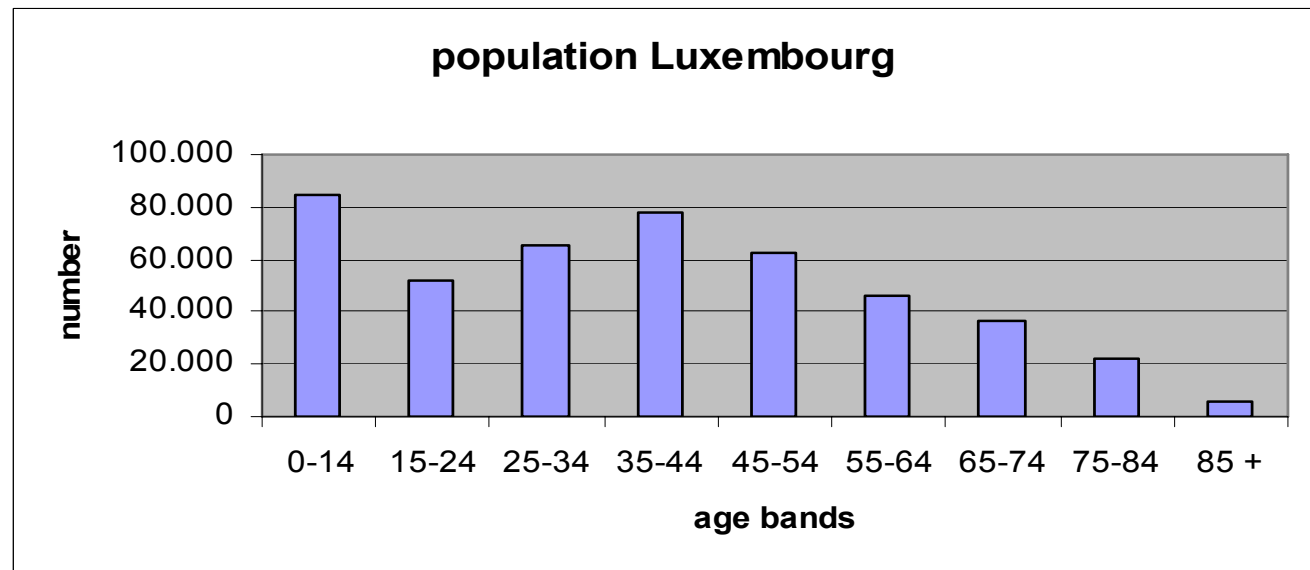
novo nordisk®

Standardisation

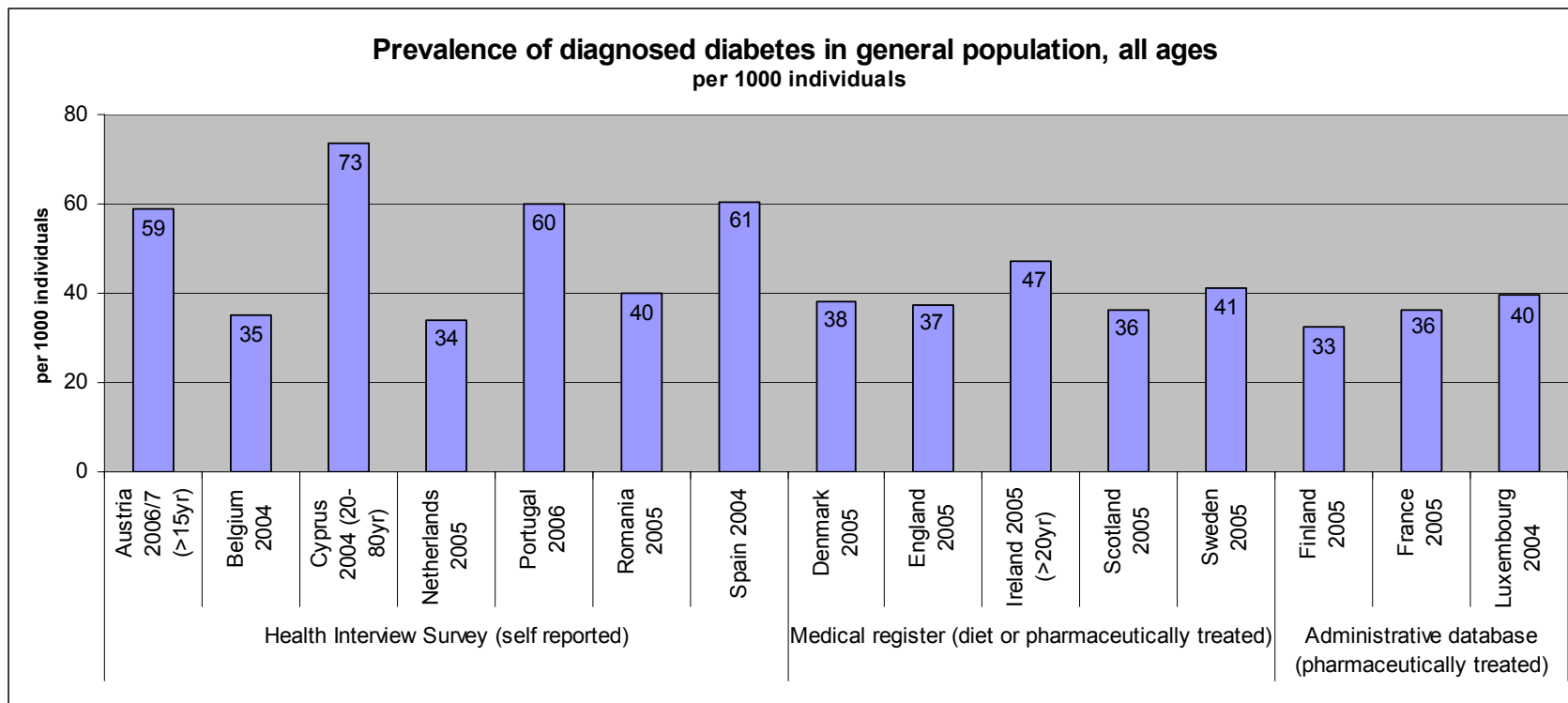
IARC76
Population



Population
Luxembourg
2005



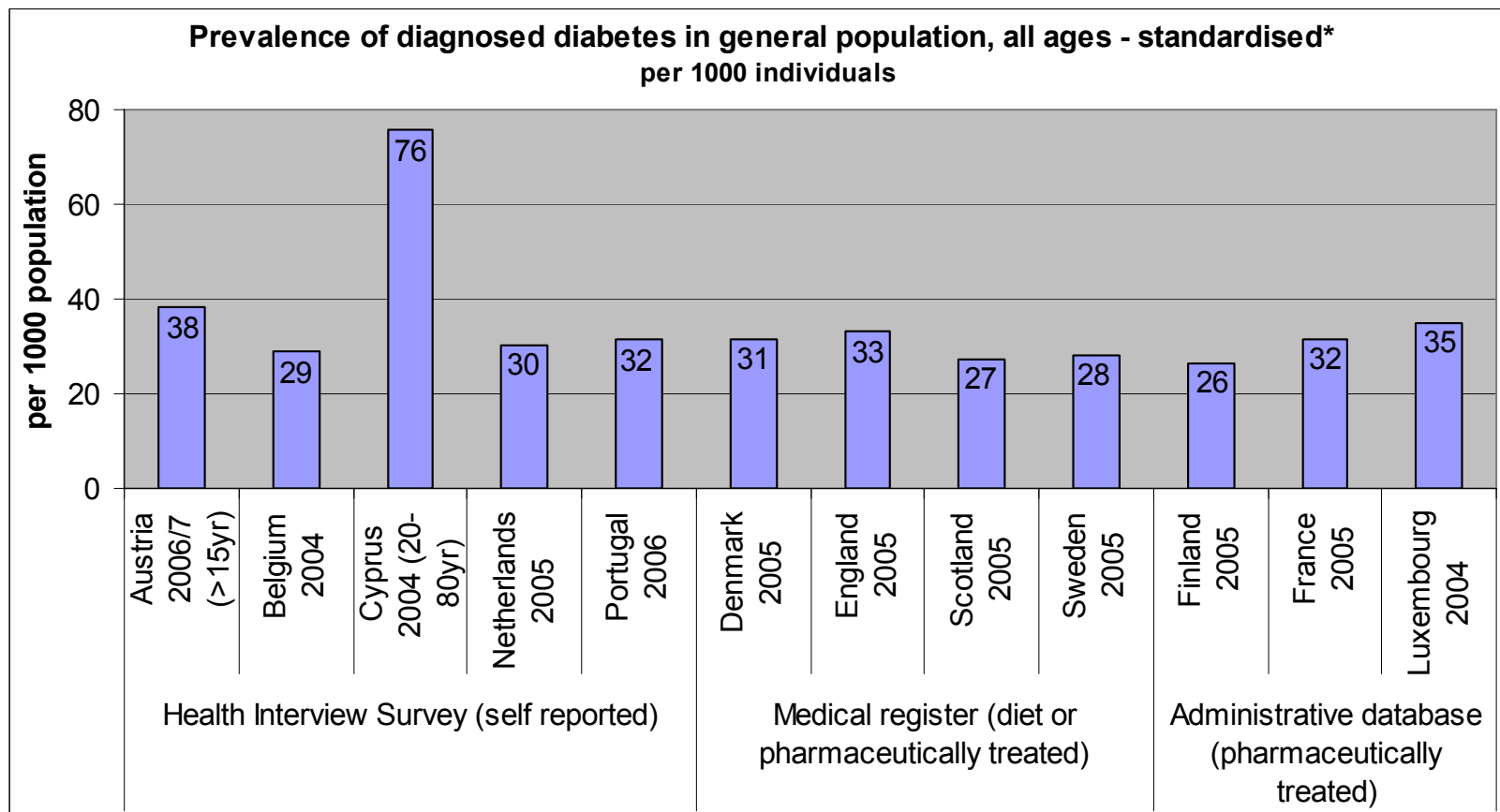
Prevalence of diabetes (crude data)



Prevalence of Diabetes

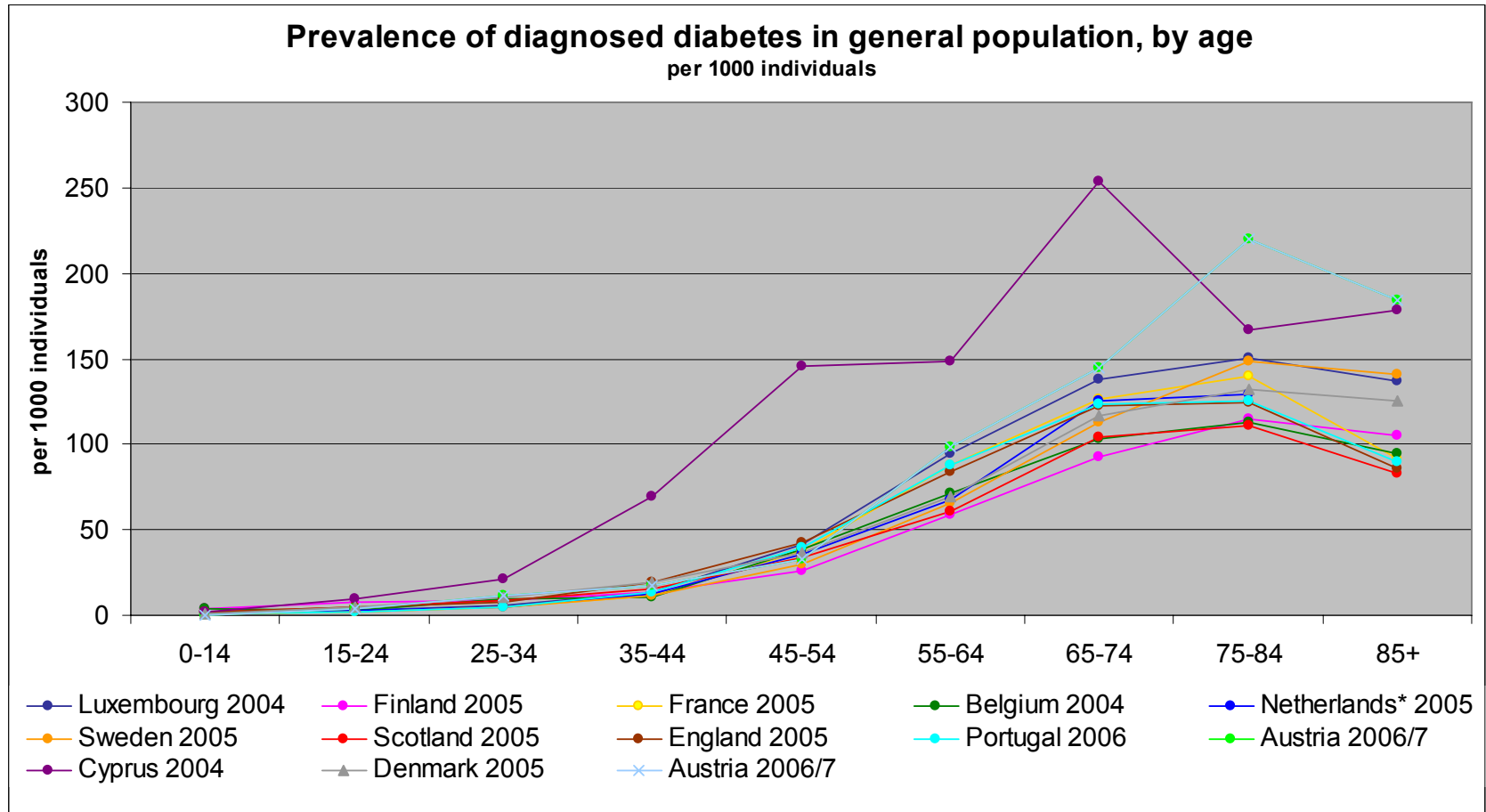
(standardised)

(* IARC76)

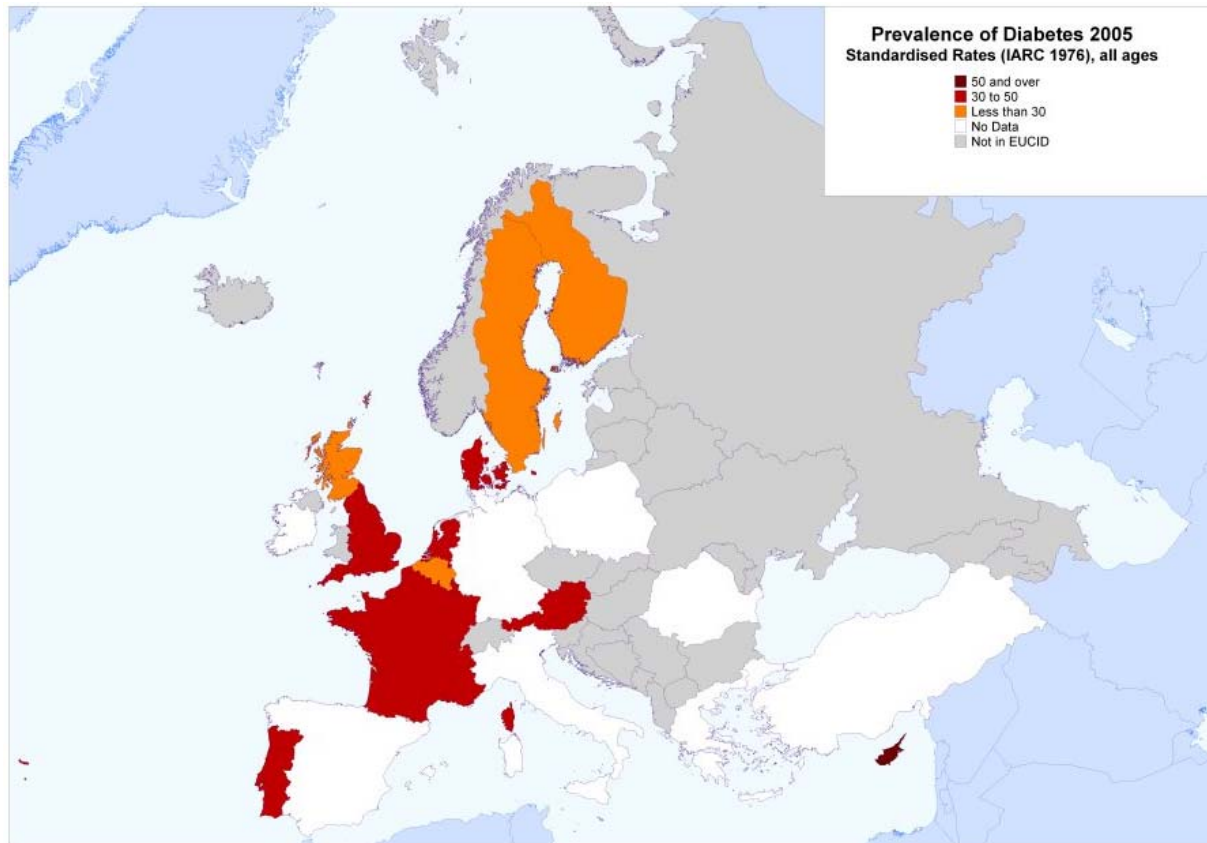


Prevalence of Diabetes

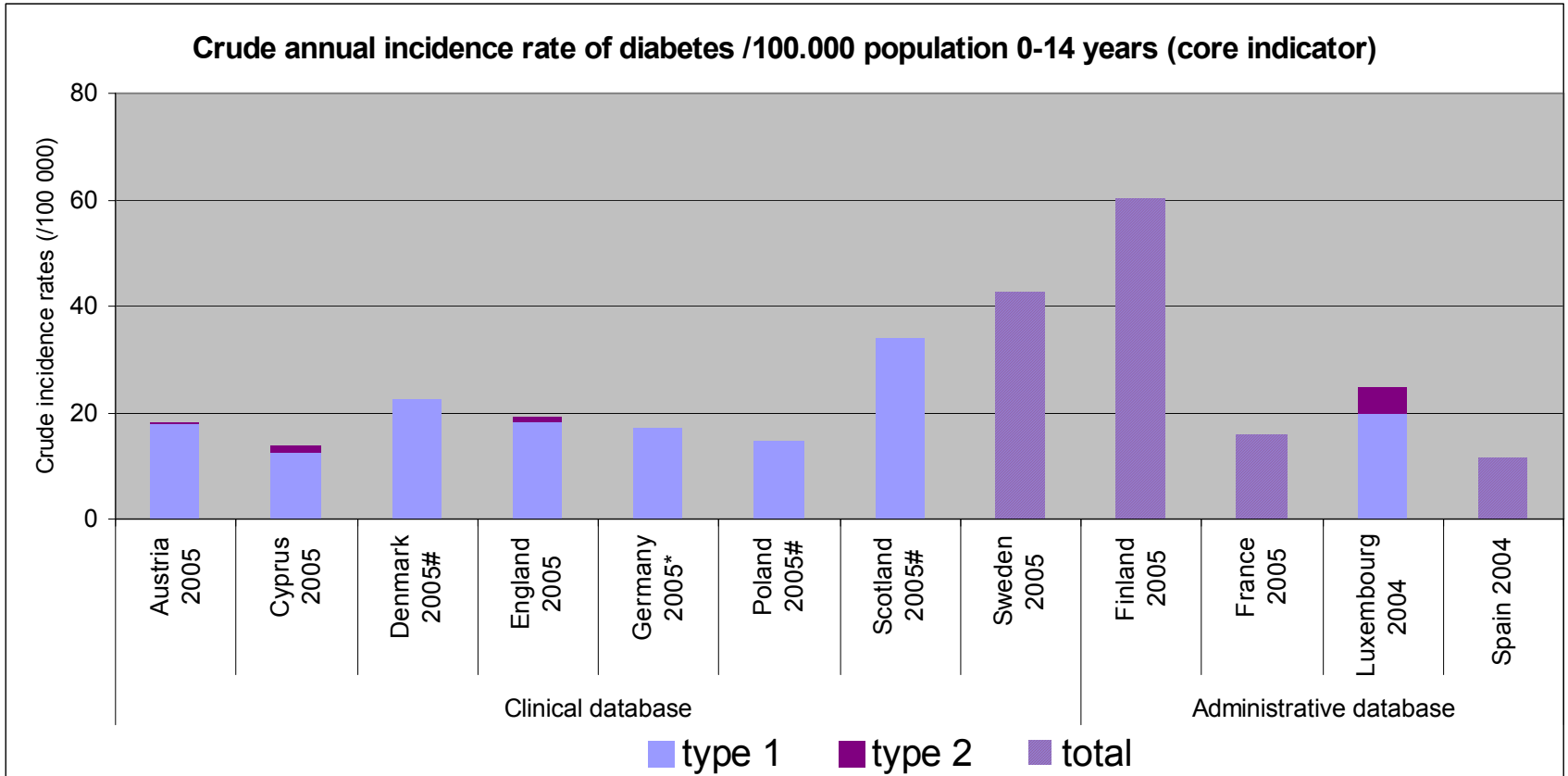
(by age)



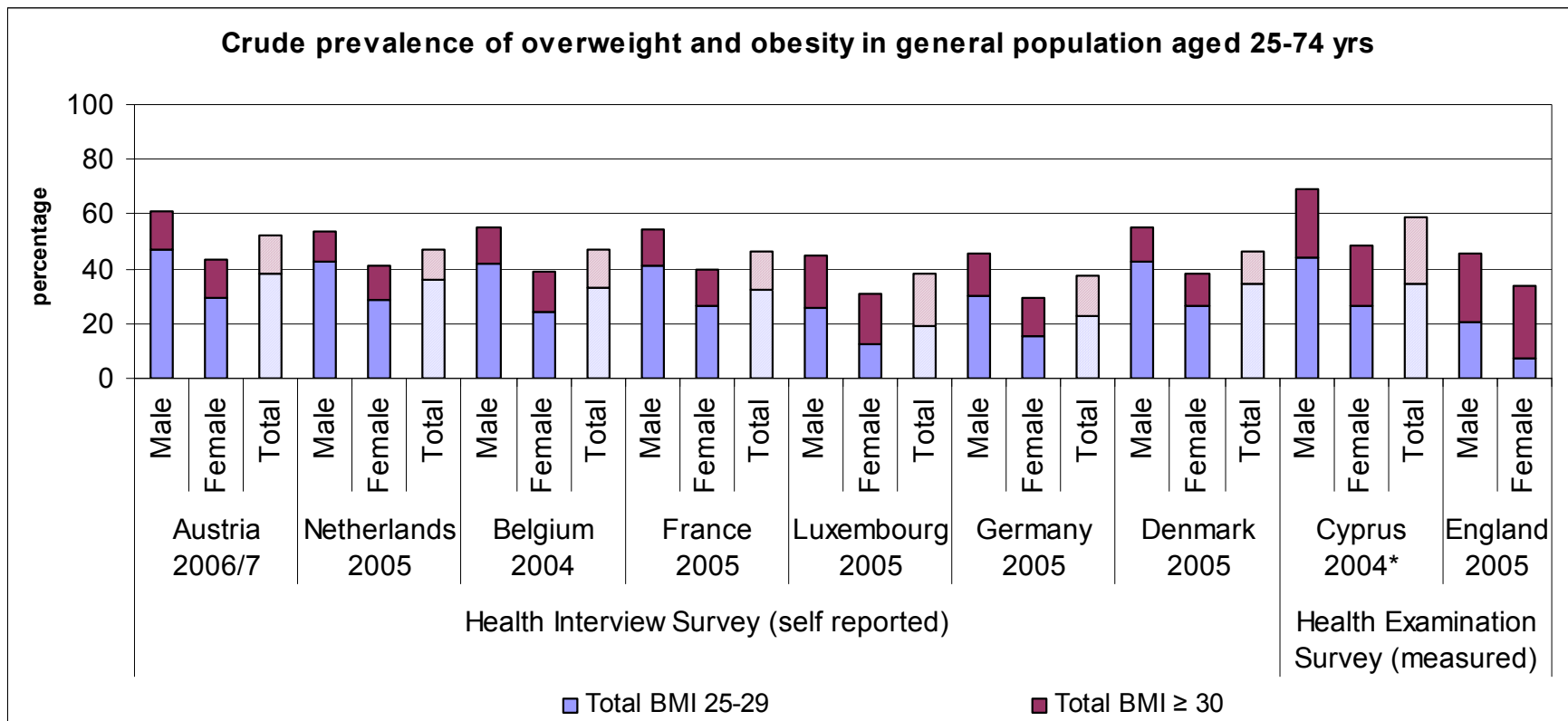
MAP Prevalence Diabetes General Population (standardised IARC 1976)



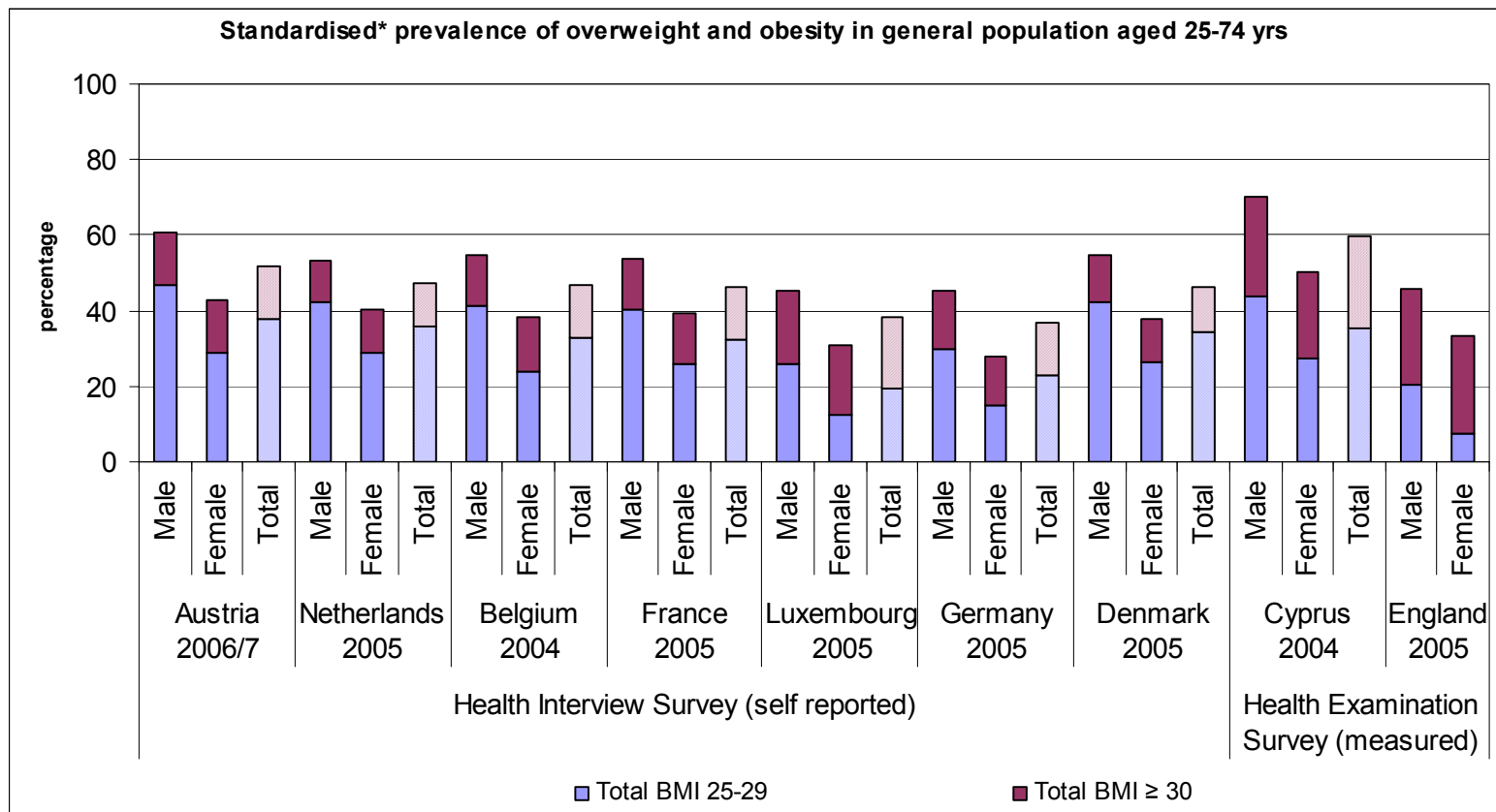
Incidence diabetes in children



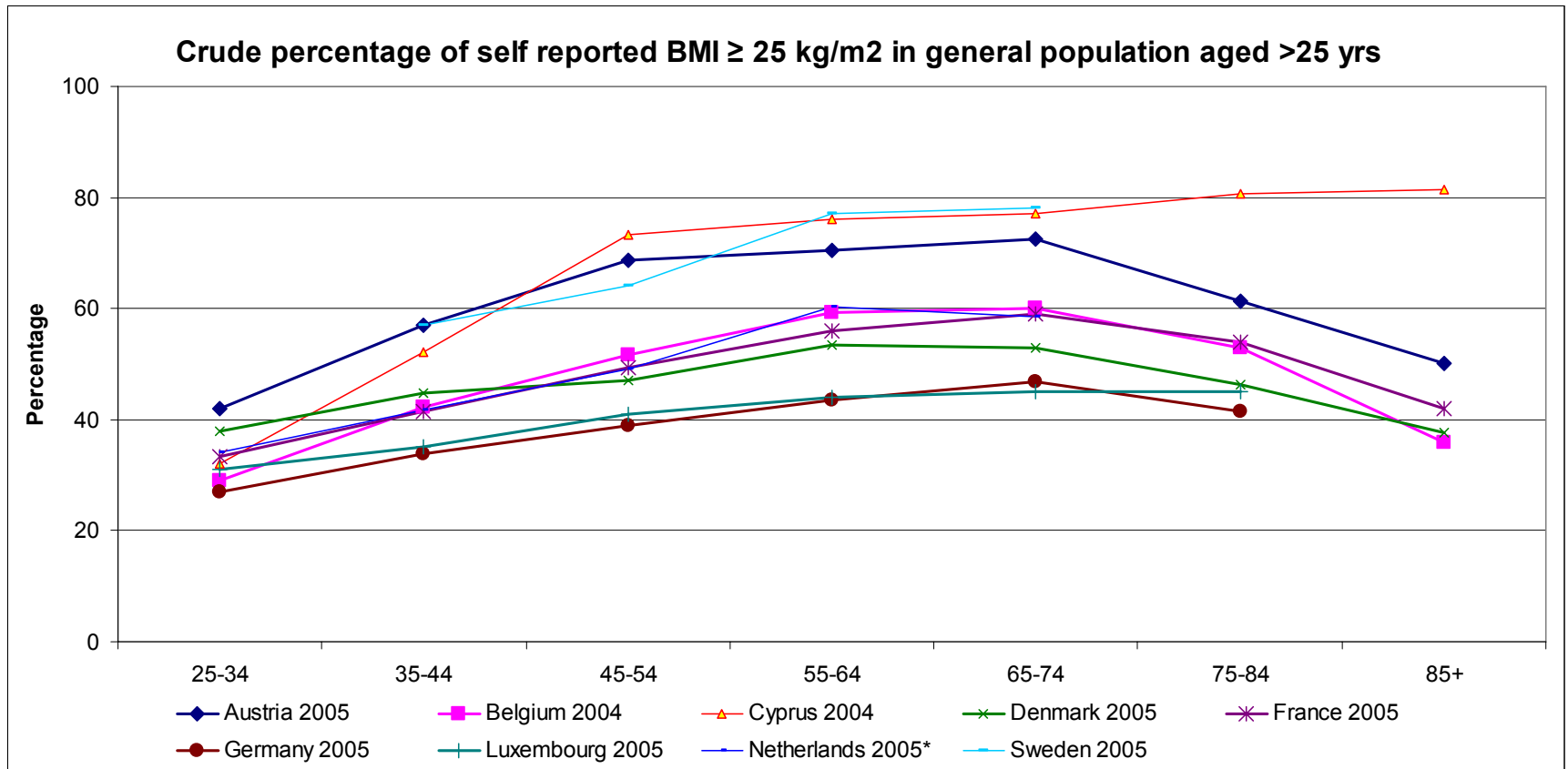
Prevalence of Obesity in general population (crude data)



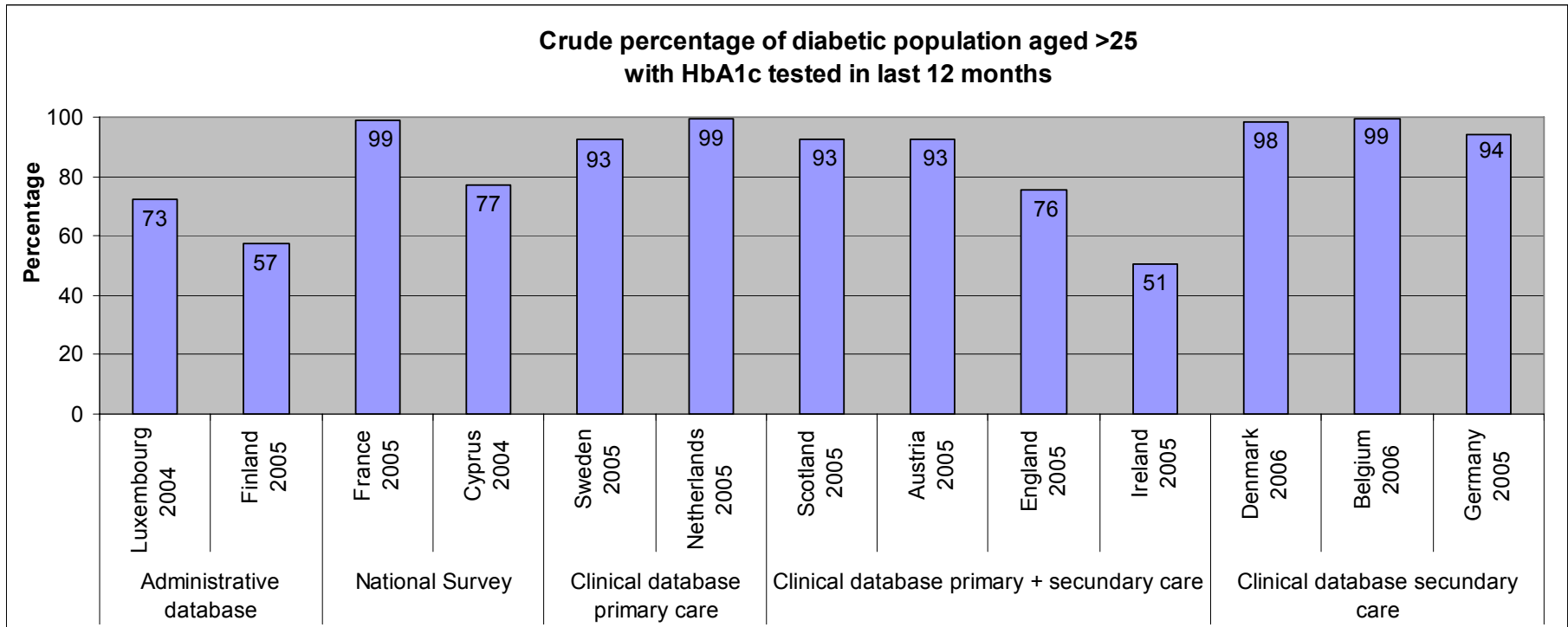
Prevalence of Obesity in the general population (standardised IARC-1976)



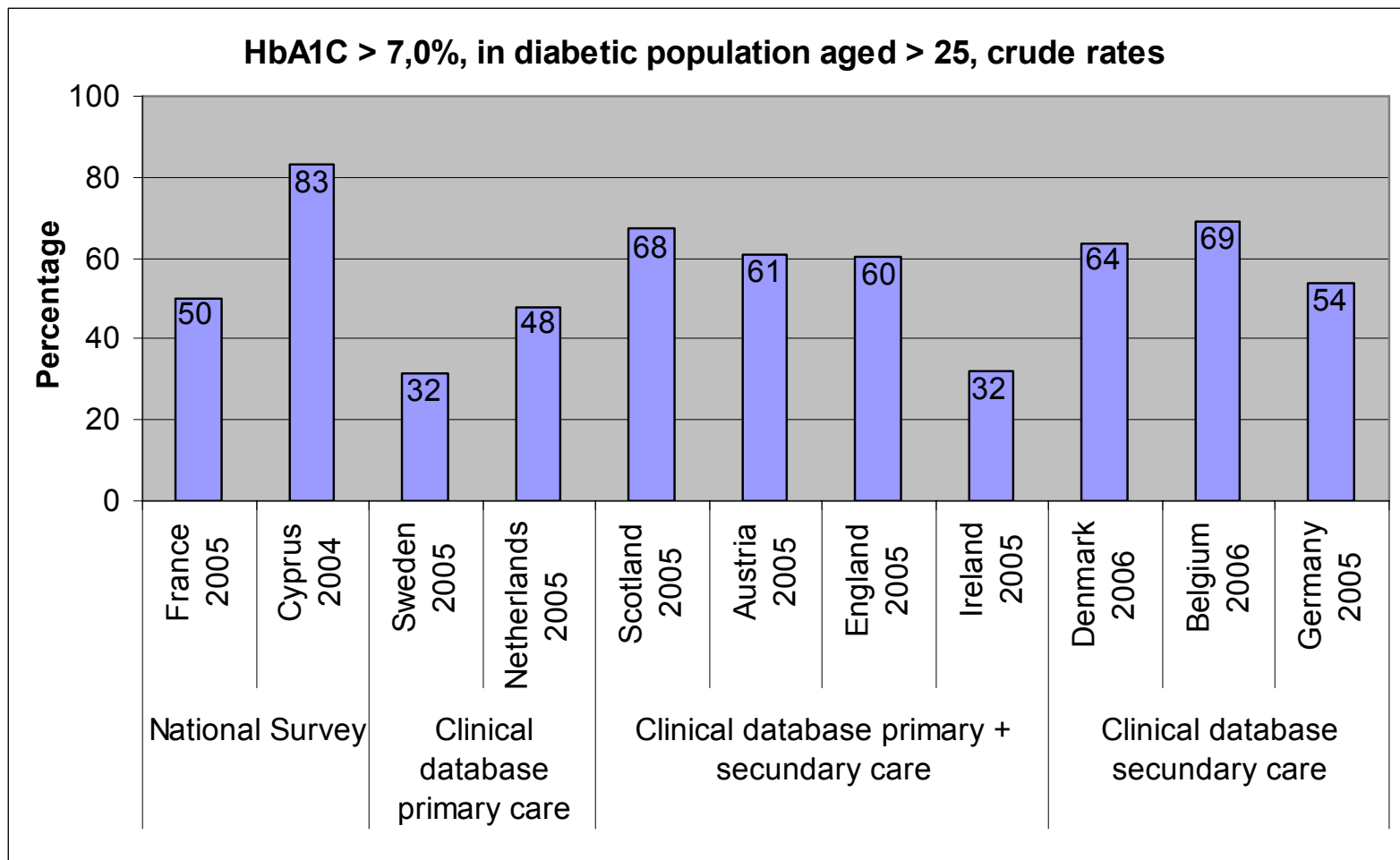
Prevalence of Obesity by age group (crude)



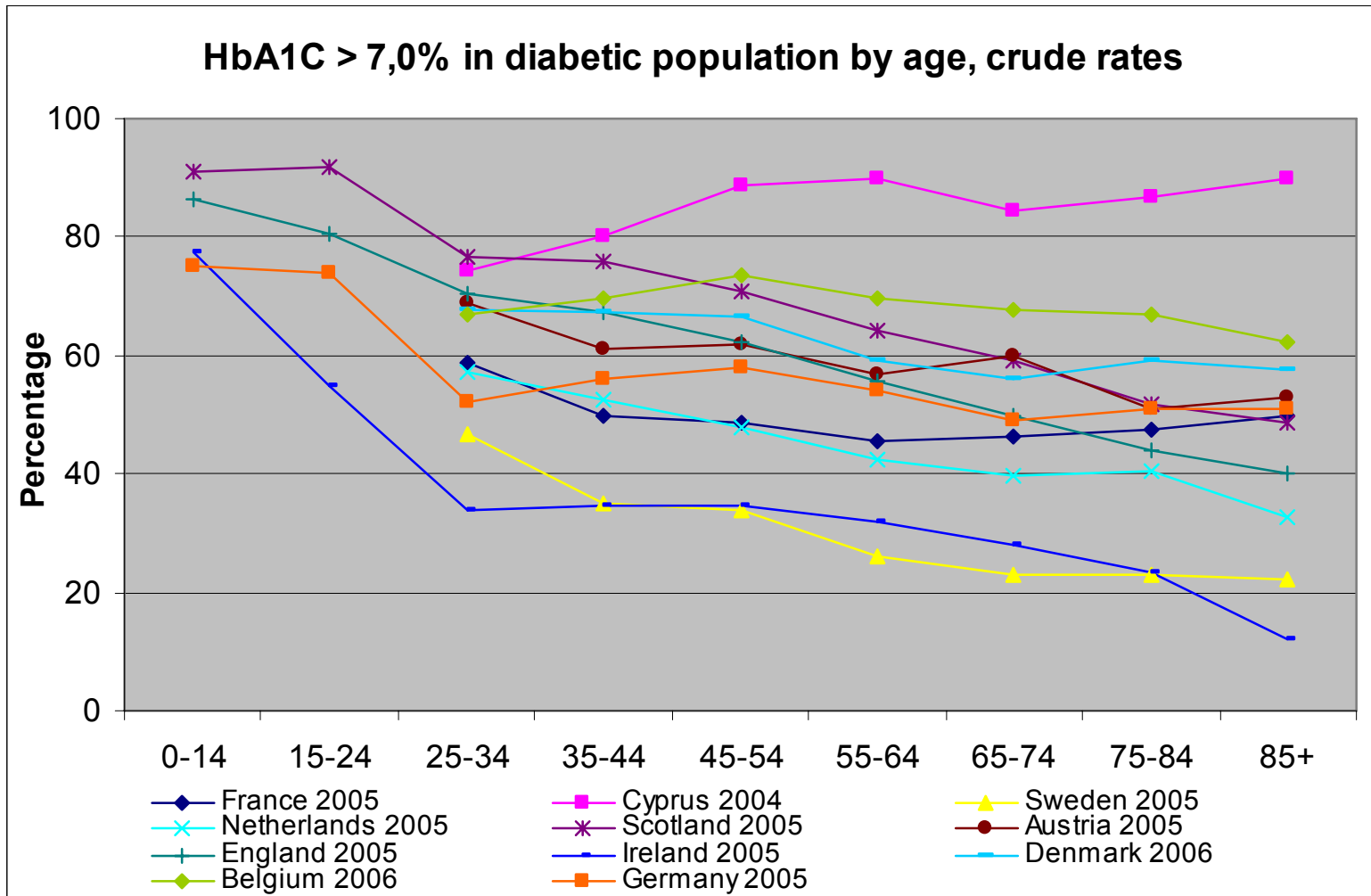
HbA1c tested



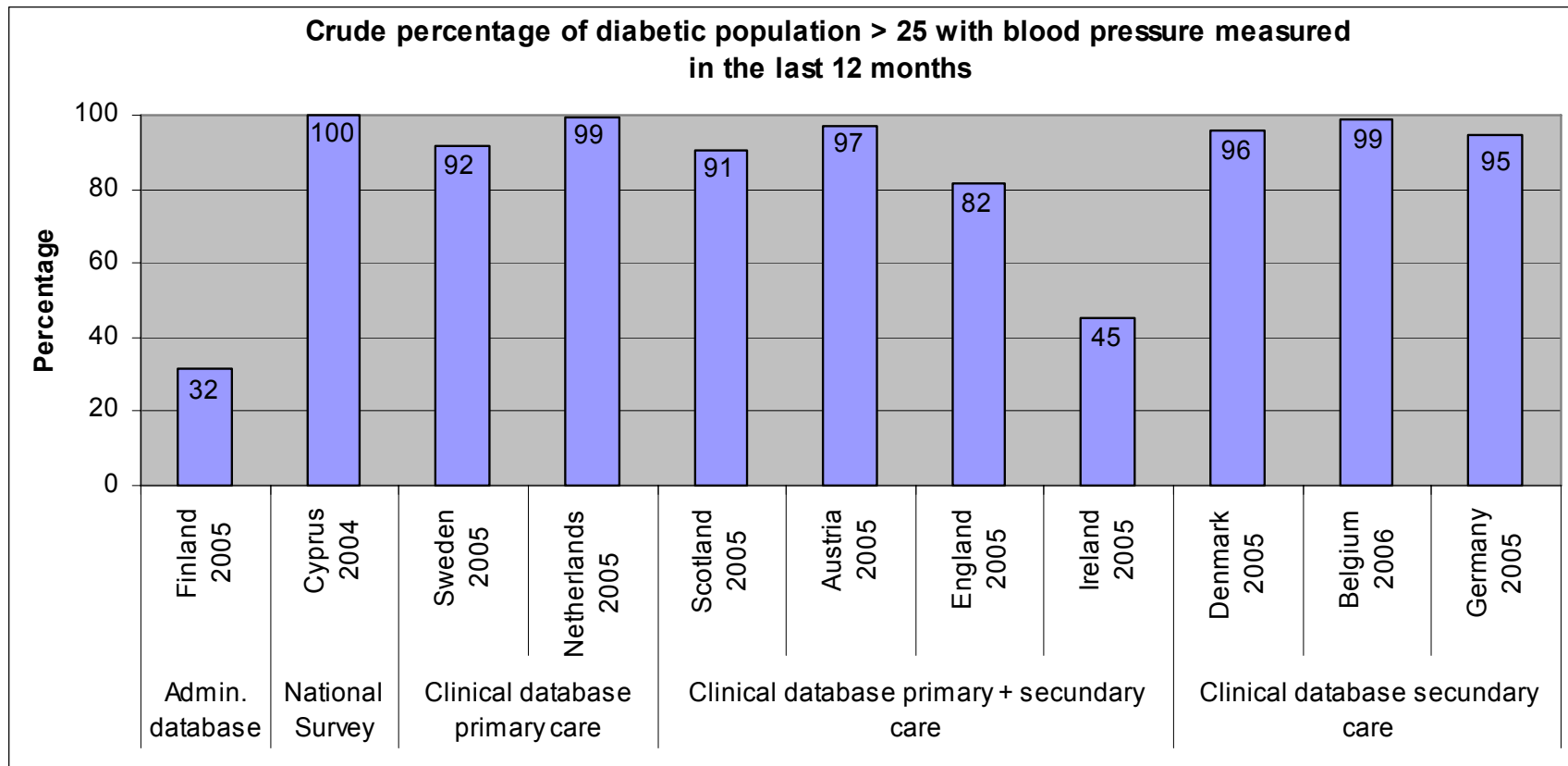
HbA1c > 7.0%



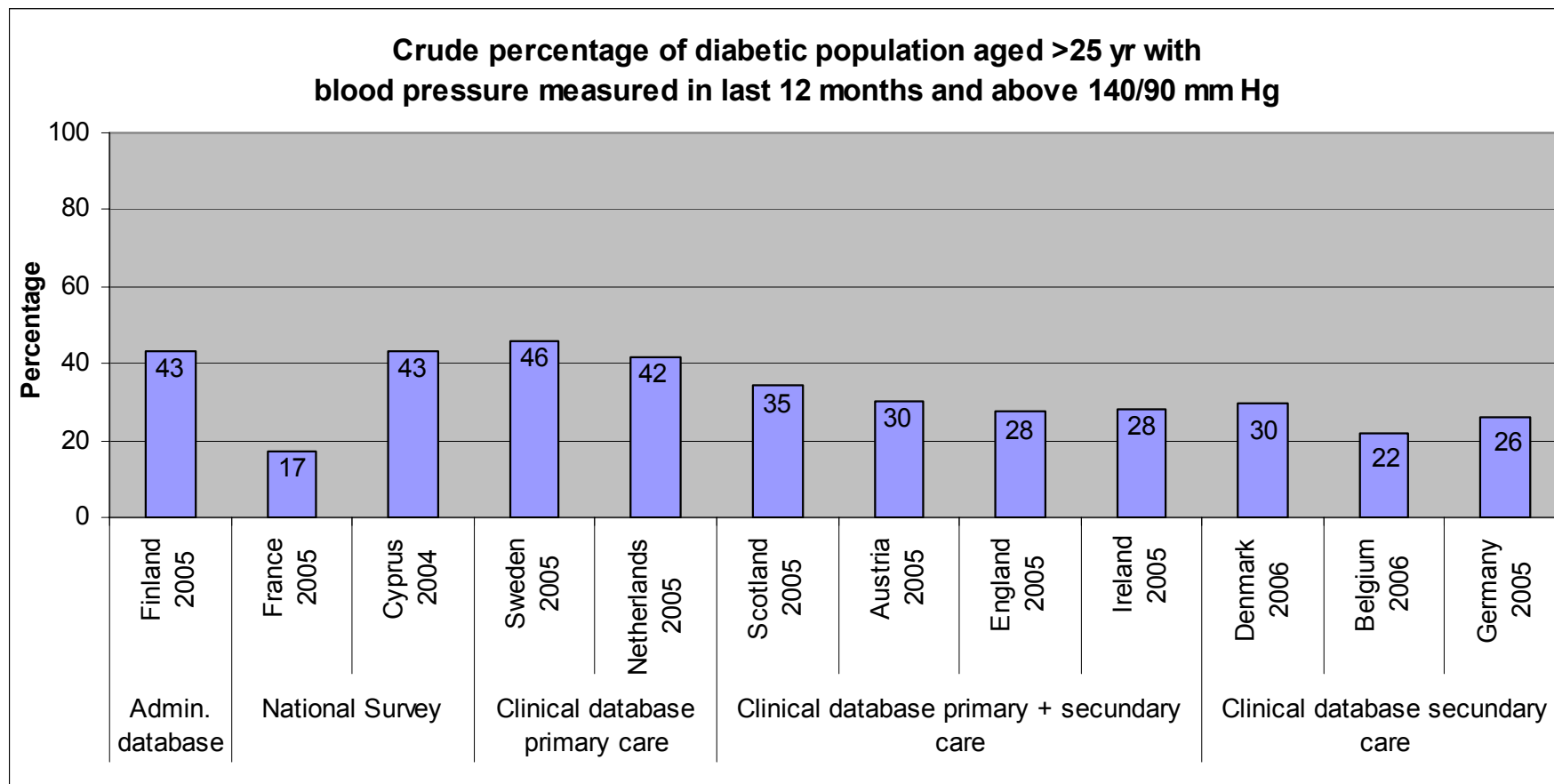
HbA1c > 7% by age



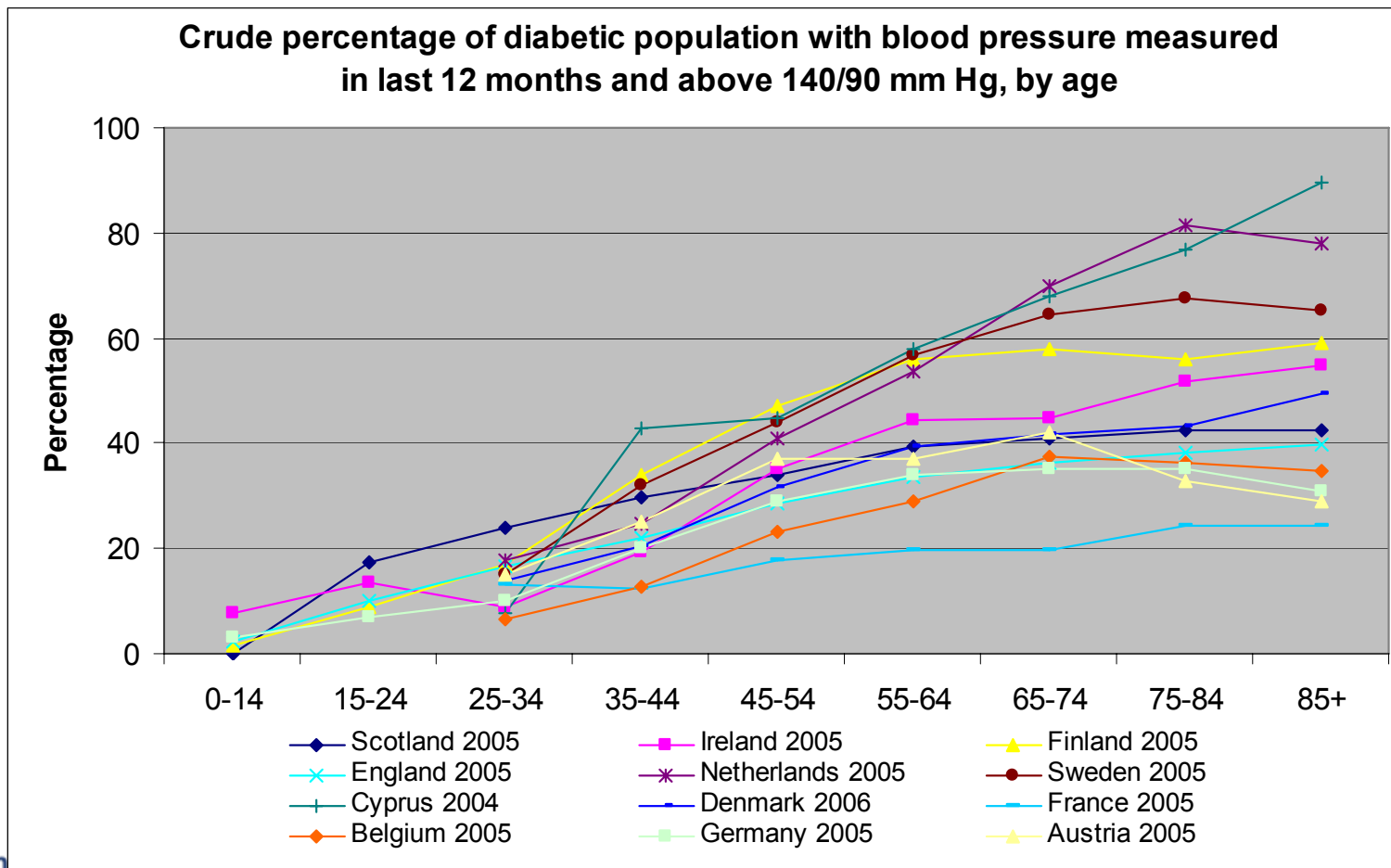
Blood pressure tested



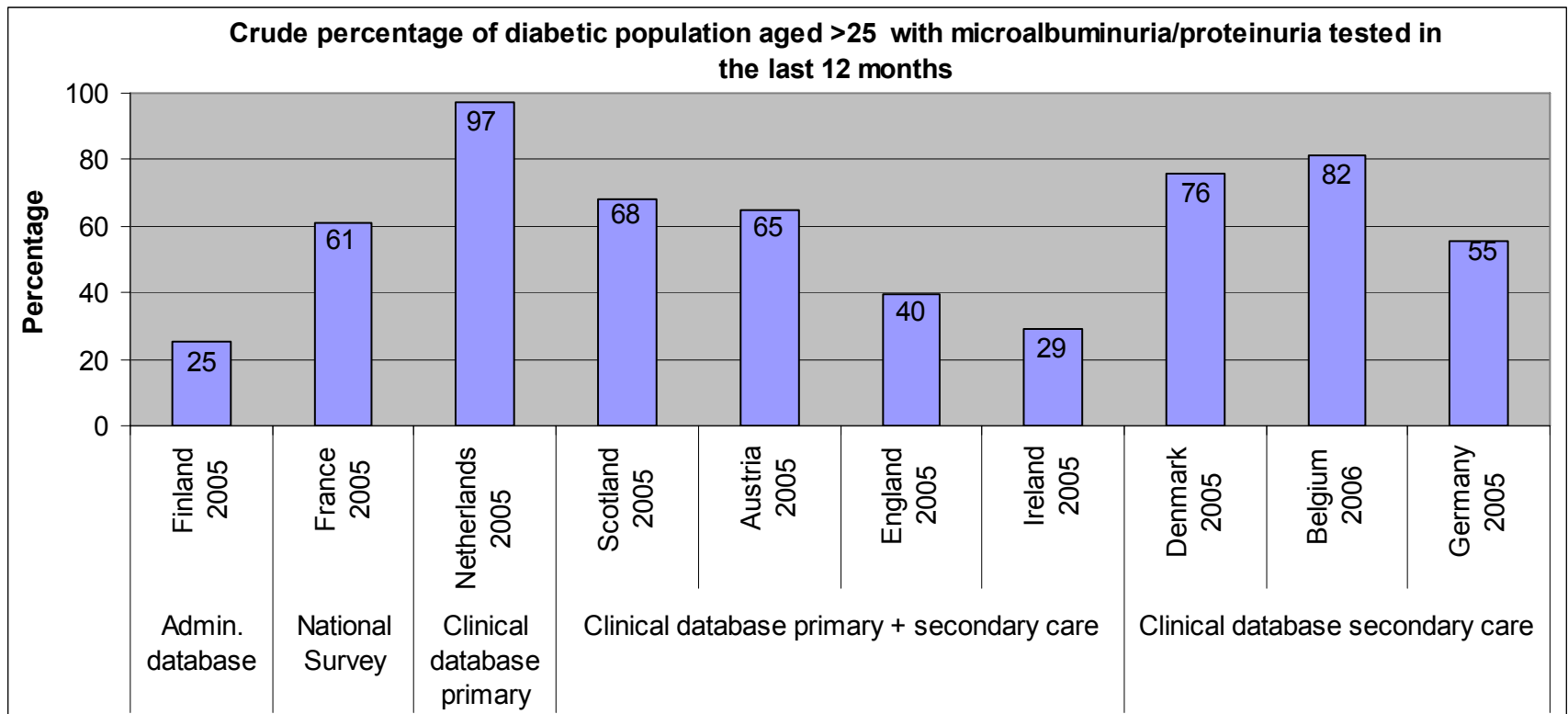
Elevated blood pressure



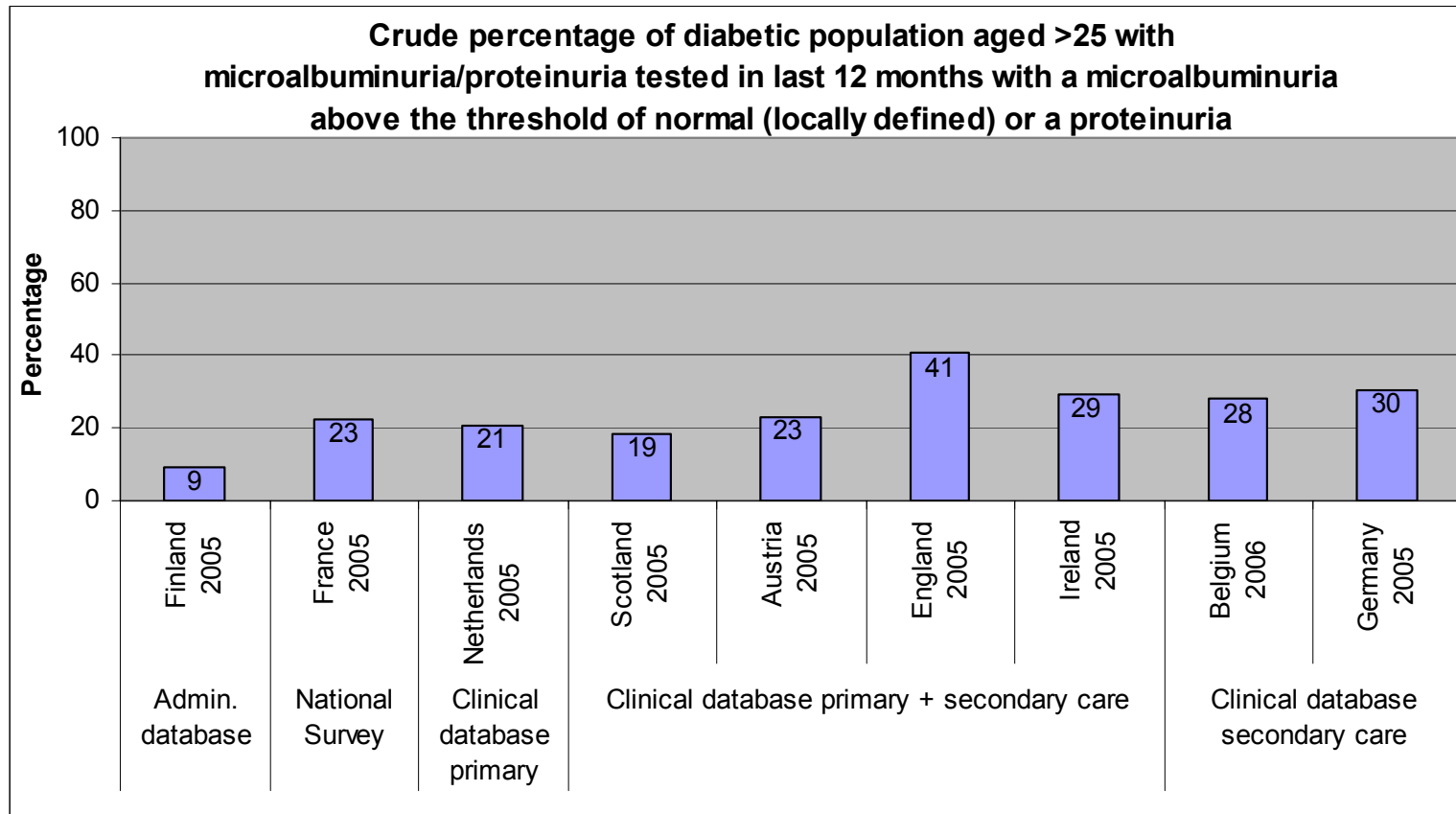
Elevated blood pressure by Age



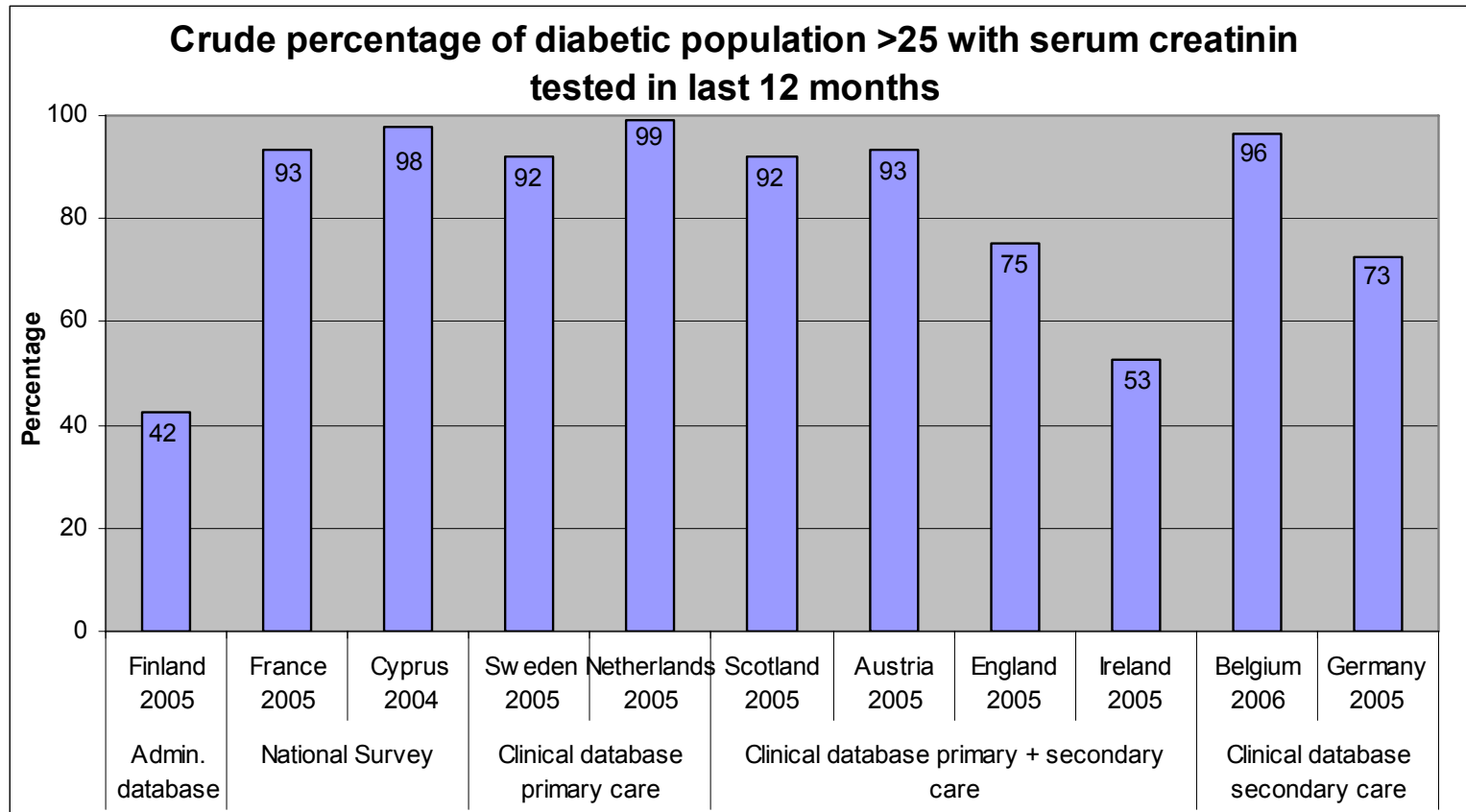
Micro-albuminures tested in diabetes population



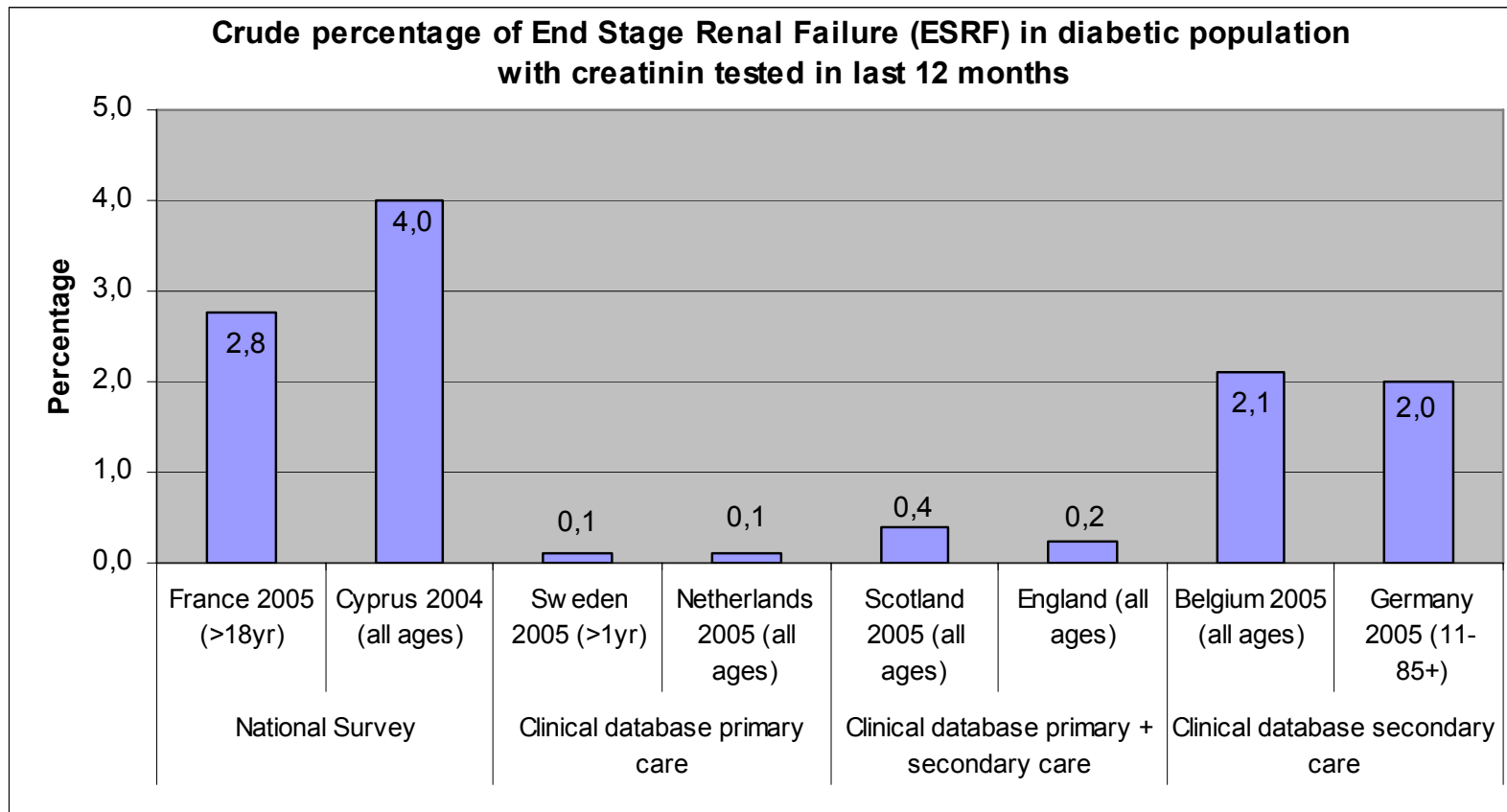
Micro-albuminurea abnormal in diabetes population



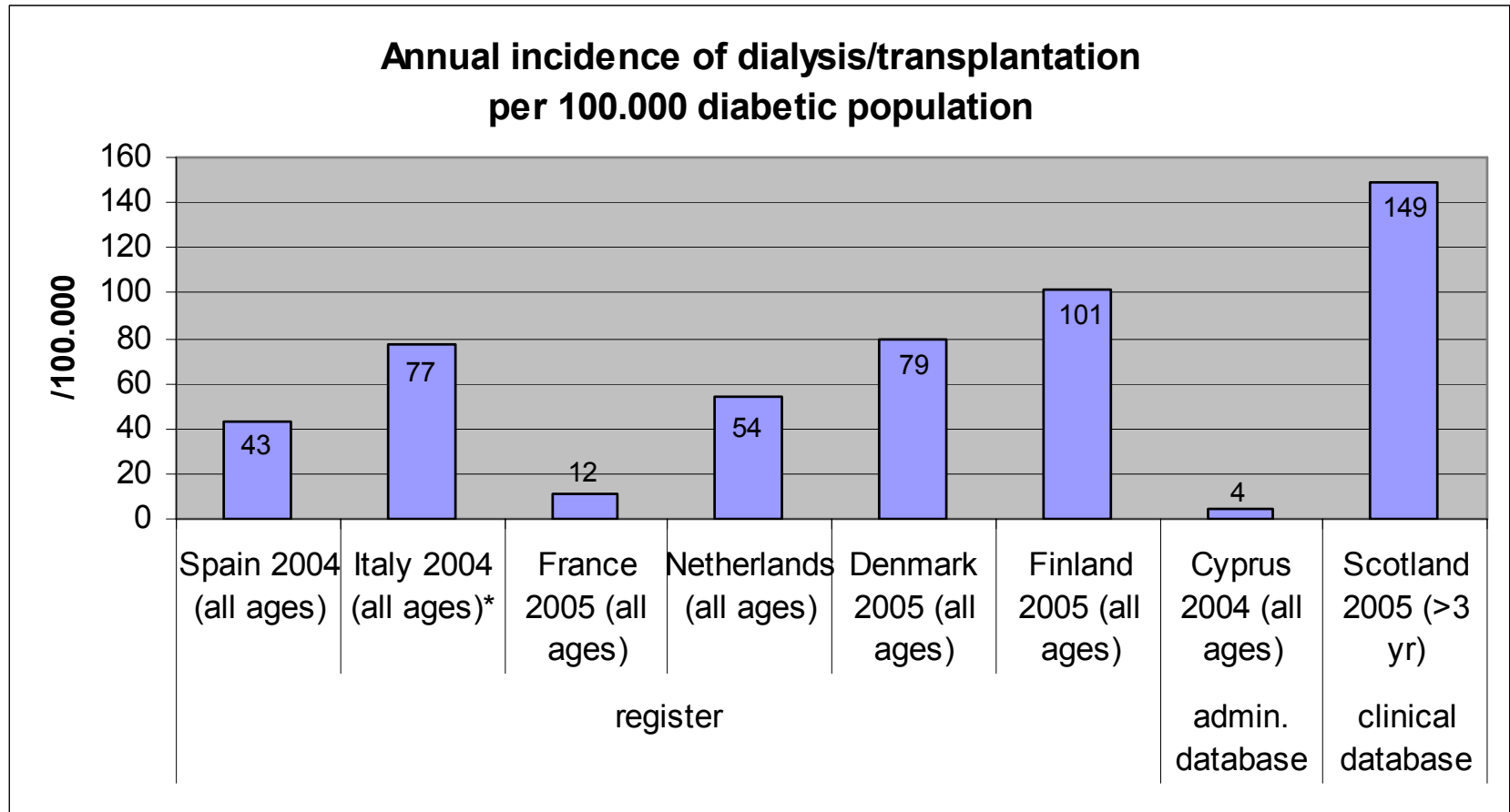
Serum Creatinine tested in diabetes population



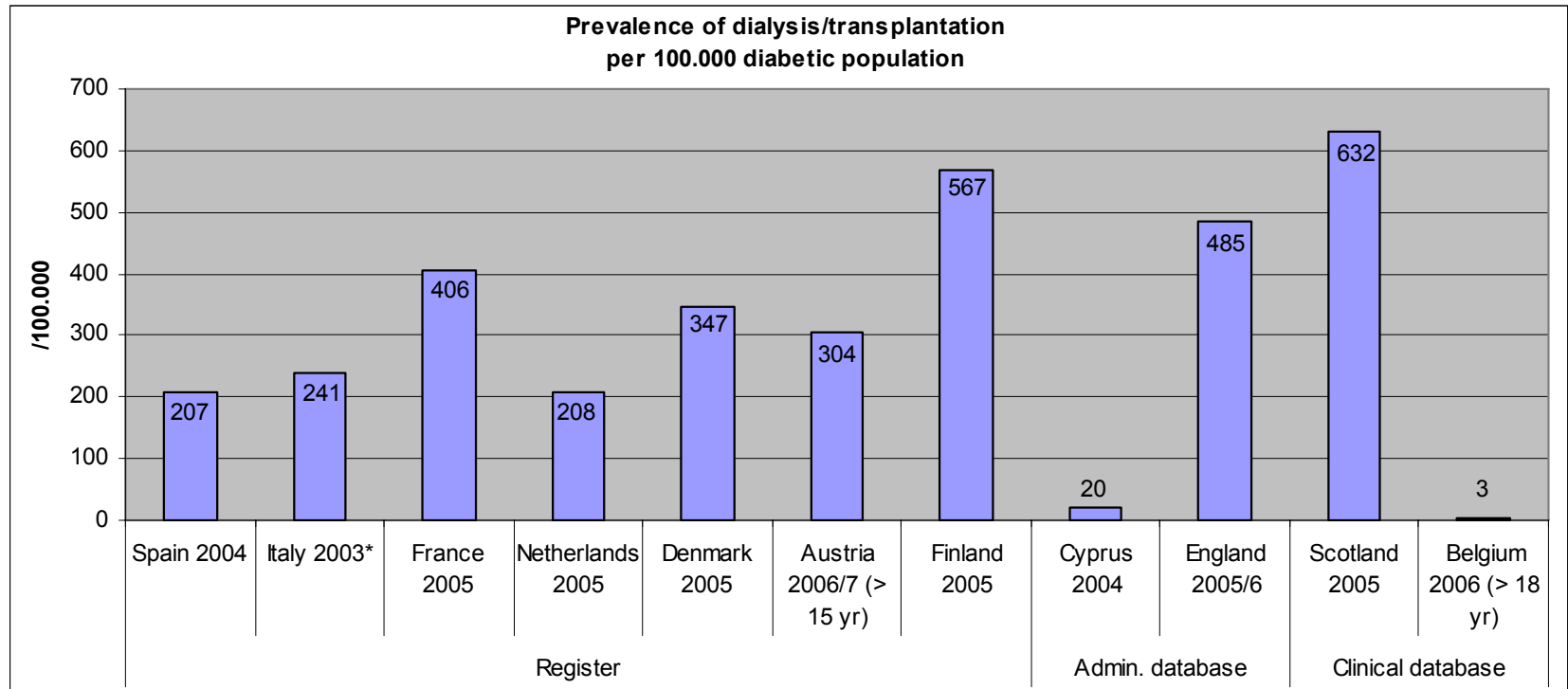
ESRF in diabetes population



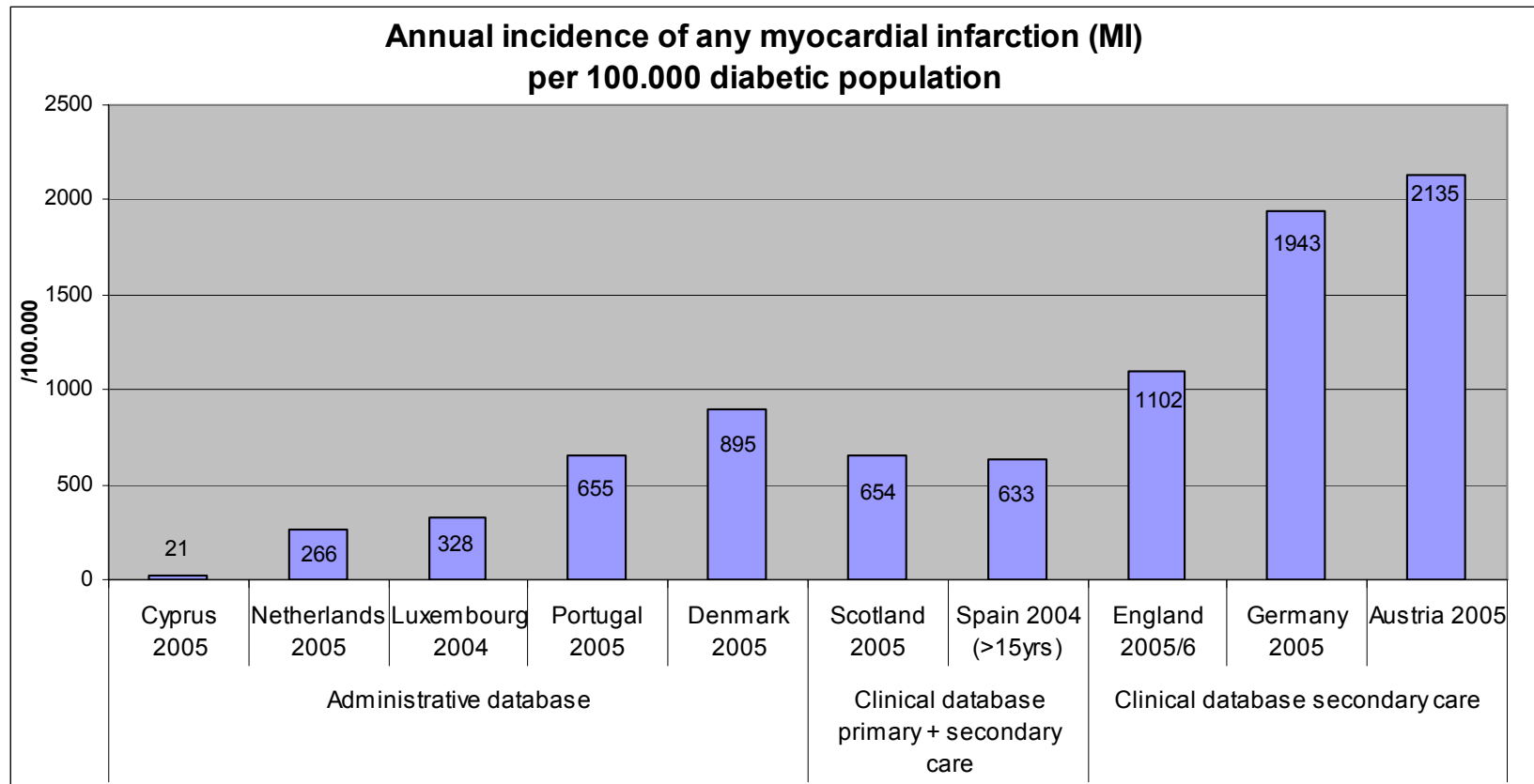
Incidence of dialysis or transplantation in diabetes



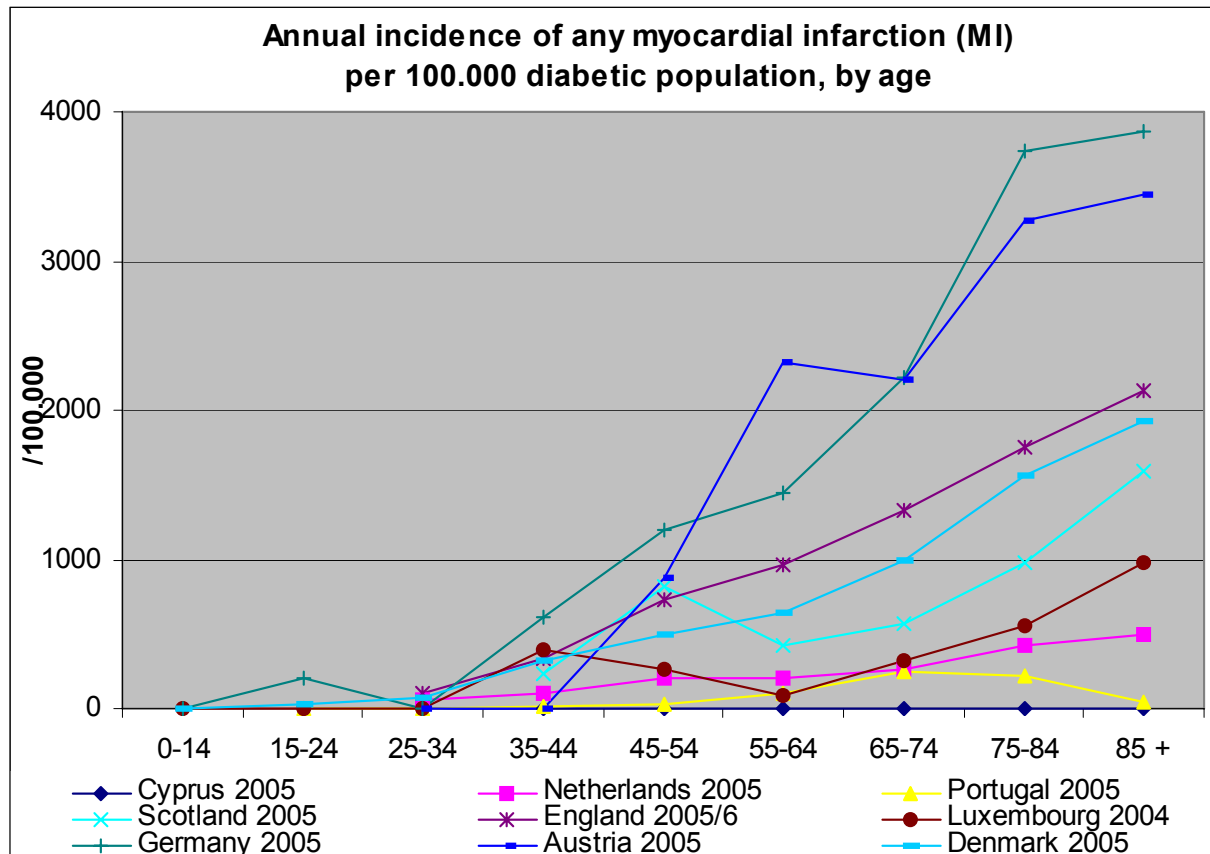
Prevalence of dialysis/transplantation in diabetes population



Incidence of MI in diabetes population

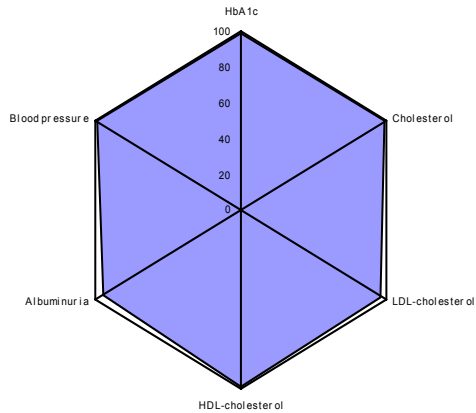


Incidence of MI in diabetes population by age

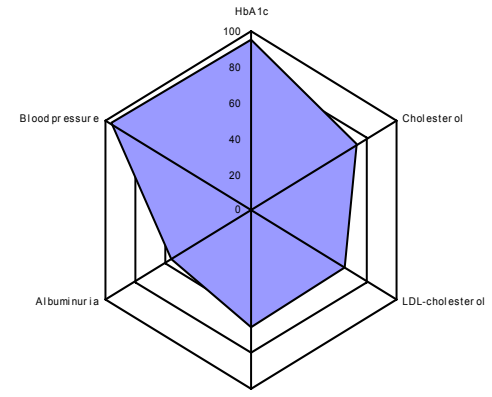


Spiderwebs process and outcome

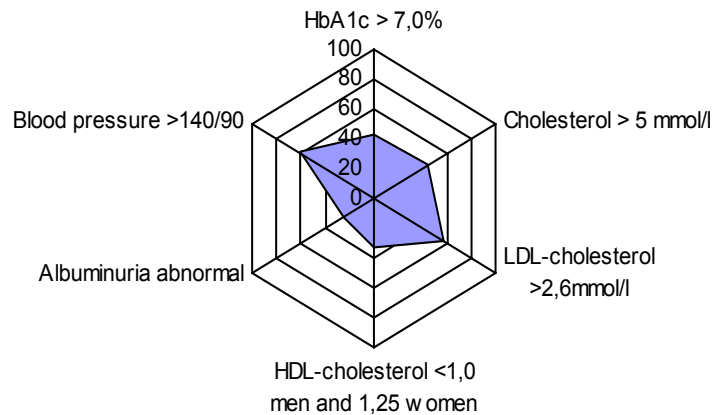
% of diabetic population tested, Netherlands 2005



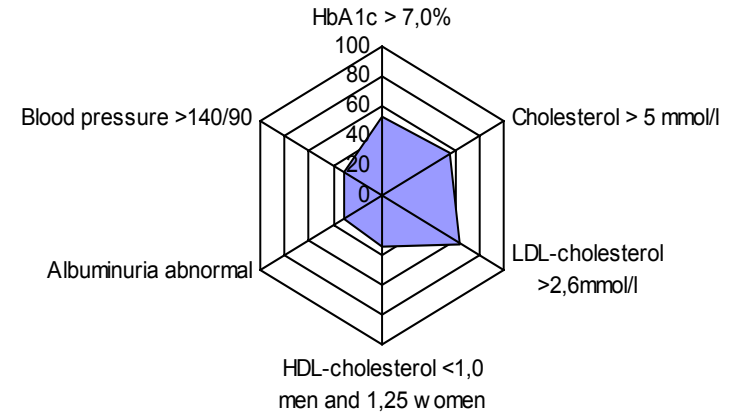
% of diabetic population tested, Germany 2005



% of tested diabetic population, Netherlands 2005



% of tested diabetic population, Germany 2005



Conclusions

- It is a joy to work with other professionals
- Data availability on diabetes and diabetes risk factors in Europe is suboptimal
- Clinical data originate almost all from regional databases
- The estimation of prevalence of diabetes by IDF seems to overestimate reality
- EUBIROD is the way to go foreward



Diabetes on the European map