



# Semmelweis University Faculty of Dentistry

## Department of Community Dentistry

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# Financing in the healthcare system by definition, types and characteristic of financing



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## Fogászati és Szájsebészeti Oktató Intézet

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### Bemutkozás

Fogászati és Szájsebészeti Oktató Intézet a kar legnagyobb létszámú és alapterületű intézete. Az Intézetben 44 orvos (szakorvos és szakorvosjelölt) 60 fogászati szakasszisztens illetve klinikai fogászati higiénikus dolgozik. Az épületben 30 fogászati kezelőegységen folyik a betegellátás munkanapokon reggel nyolc órától este nyolc óráig. Este nyolctól reggel nyolc óráig, valamint a munkaszüneti napokon fogászati sürgősségi ellátás folyik. Részt vesz az alapoktatási, szakorvosképzési és szakorvos továbbképzési feladatokban. Osztálystruktúrája a közösségi fogászat (community dentistry) kívánalmai szerint kerül kialakításra.

Elérhetőség

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- Az egyetemről

## Oktatás

[Tudományos Diákkör](#)

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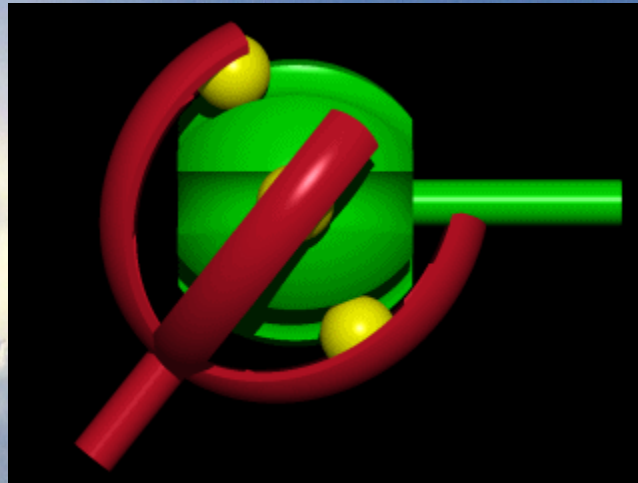
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# Financing in the healthcare system





**NORDIC  
MODEL**

**HYBRID  
MODEL**

**BEVERIDGE  
MODEL**

**BISMARCK  
MODEL**

**EASTEUROPEAN  
MODELL  
(under reconstruction)**

**SOUTHEUROPEAN  
MODEL**



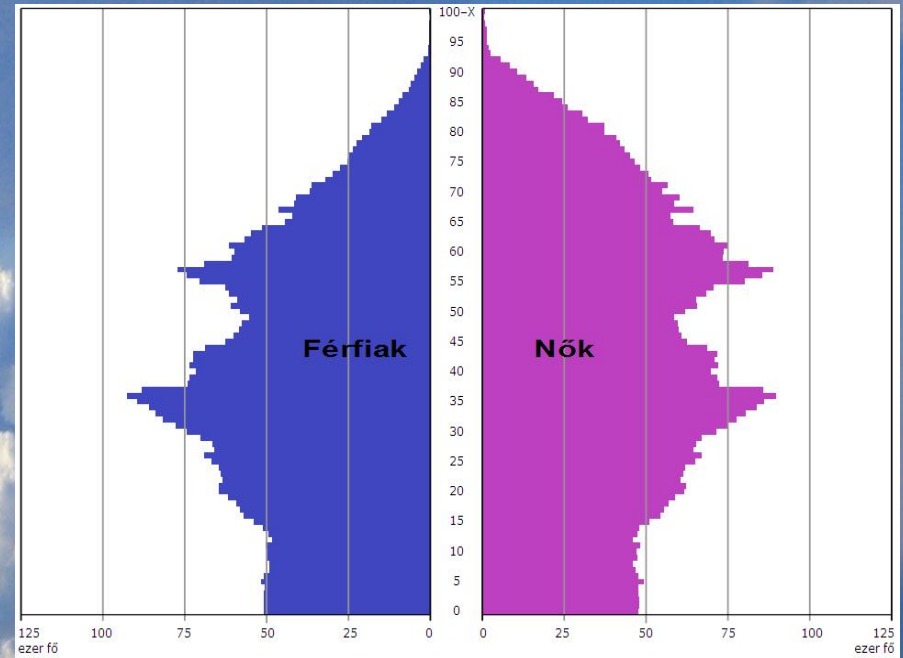
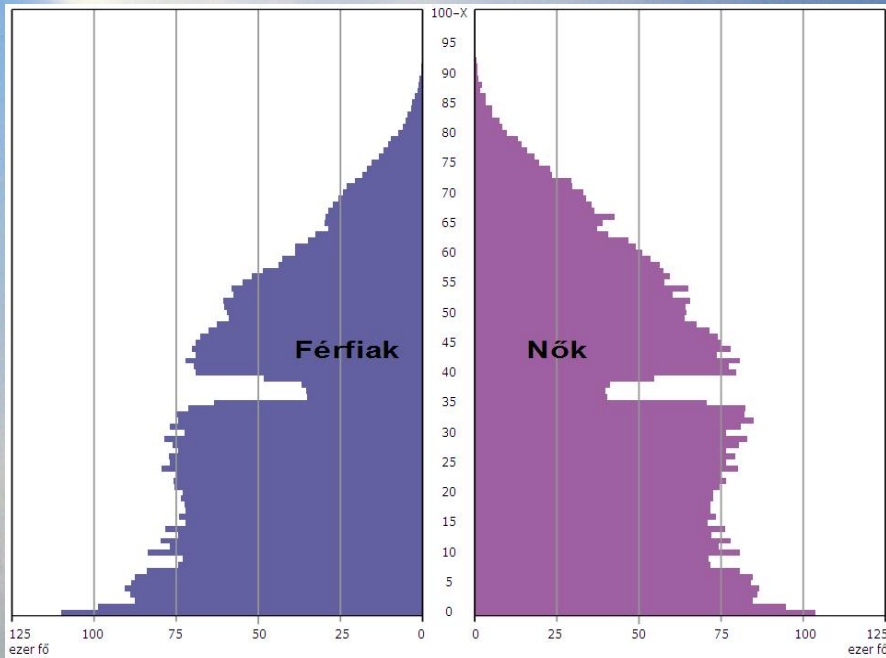
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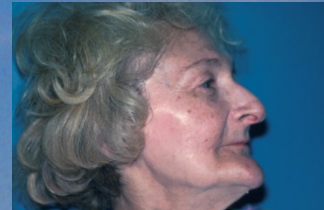
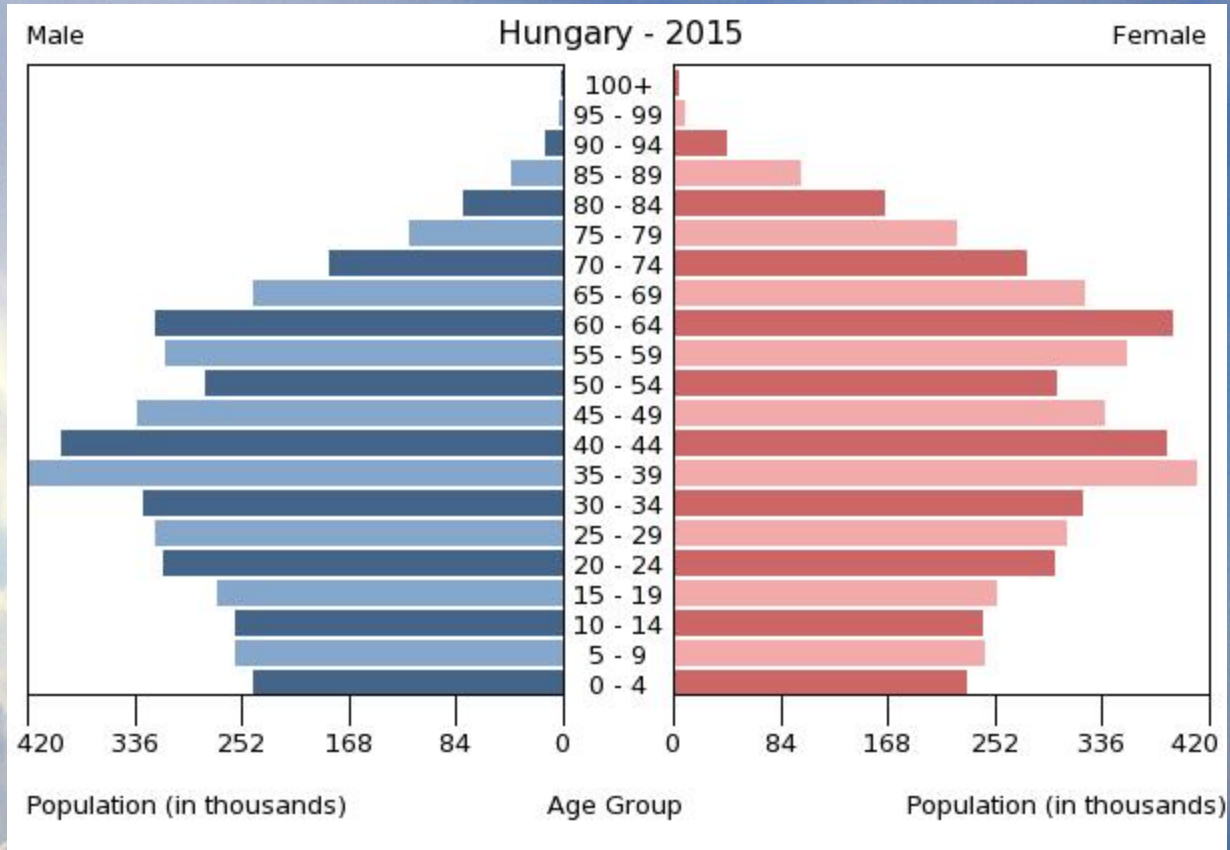


# Demography

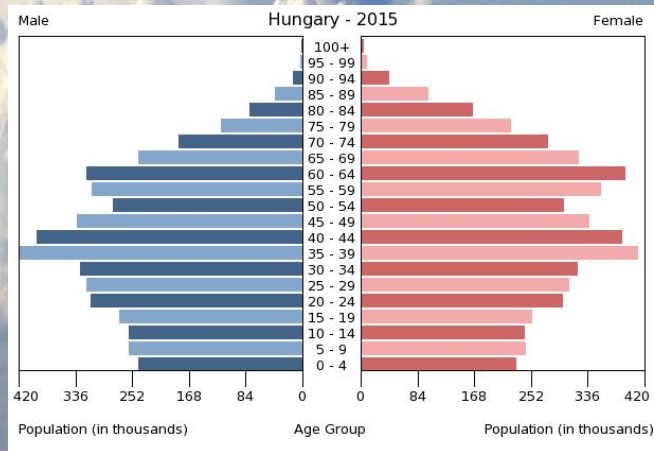
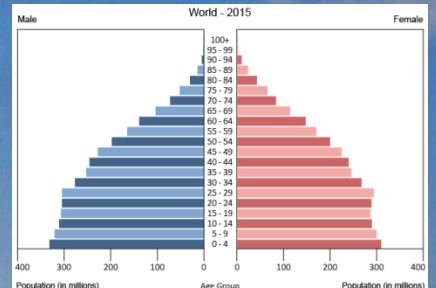
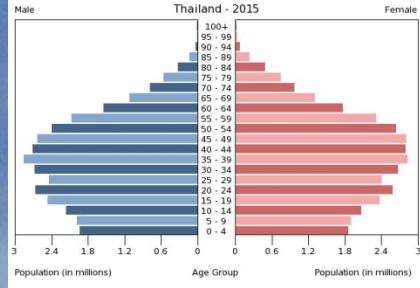
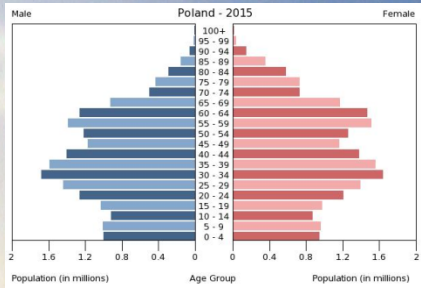
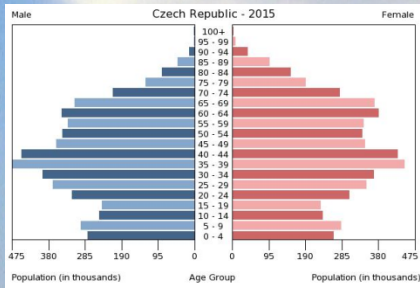
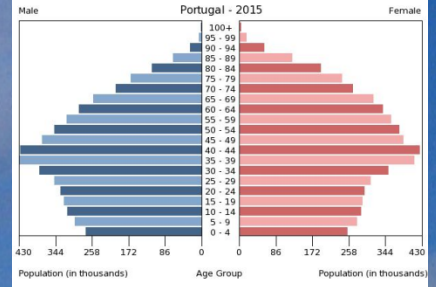
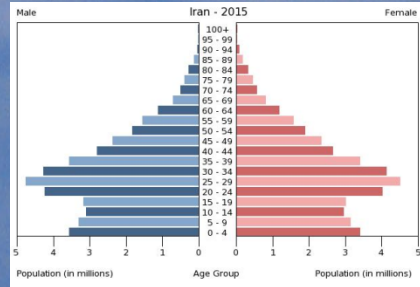
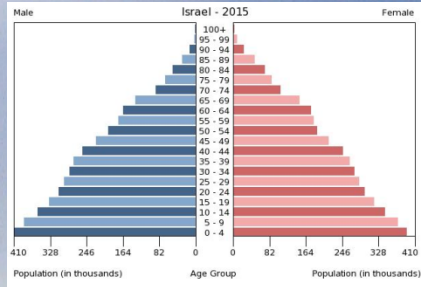
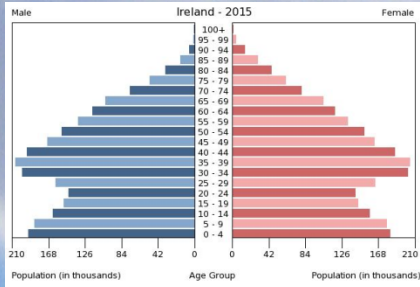
1955

2012



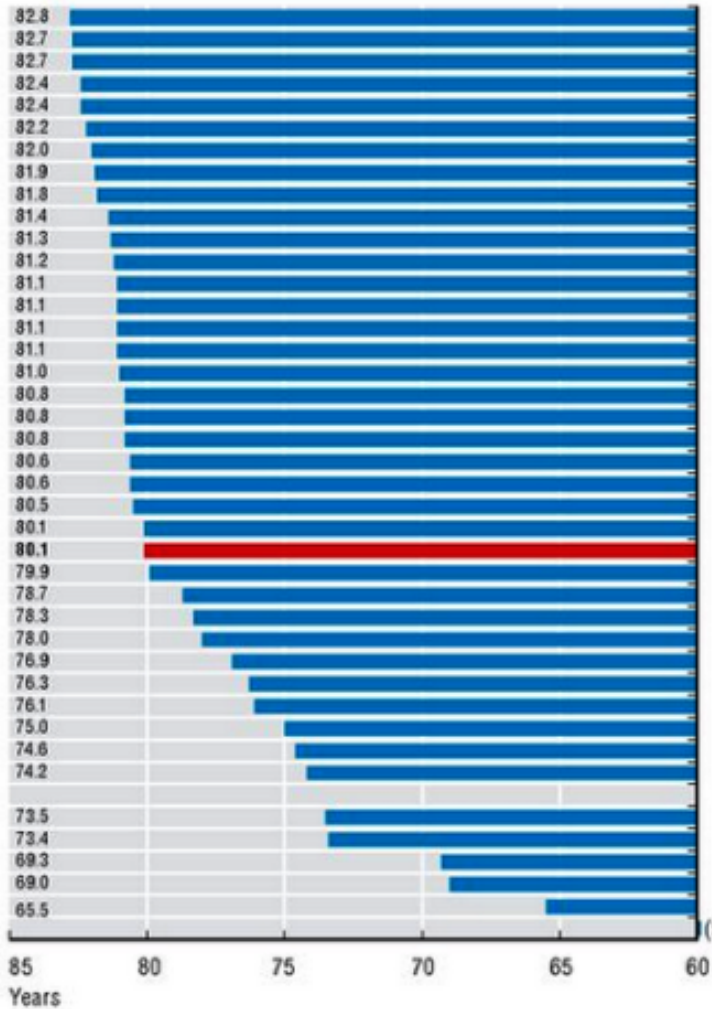




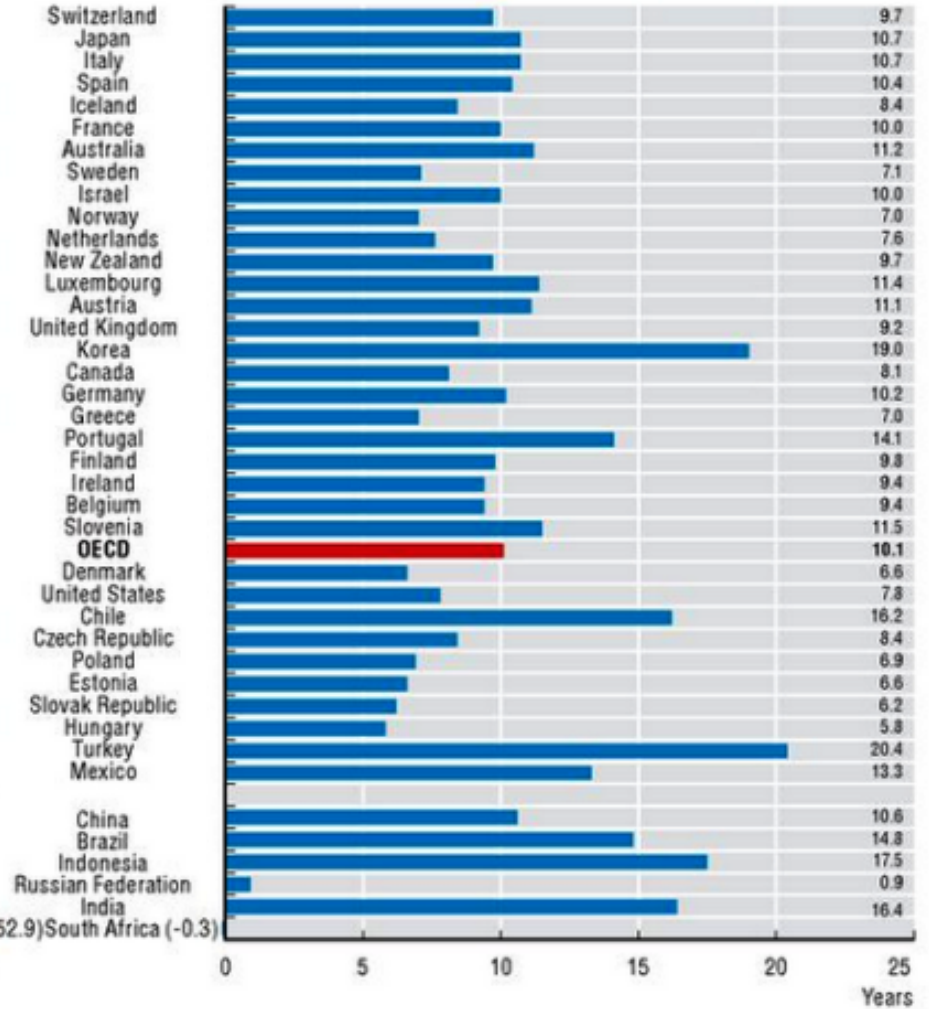


## 6.1. Life expectancy has increased remarkably in OECD countries

Panel A. Life expectancy at birth in 2011 or nearest year

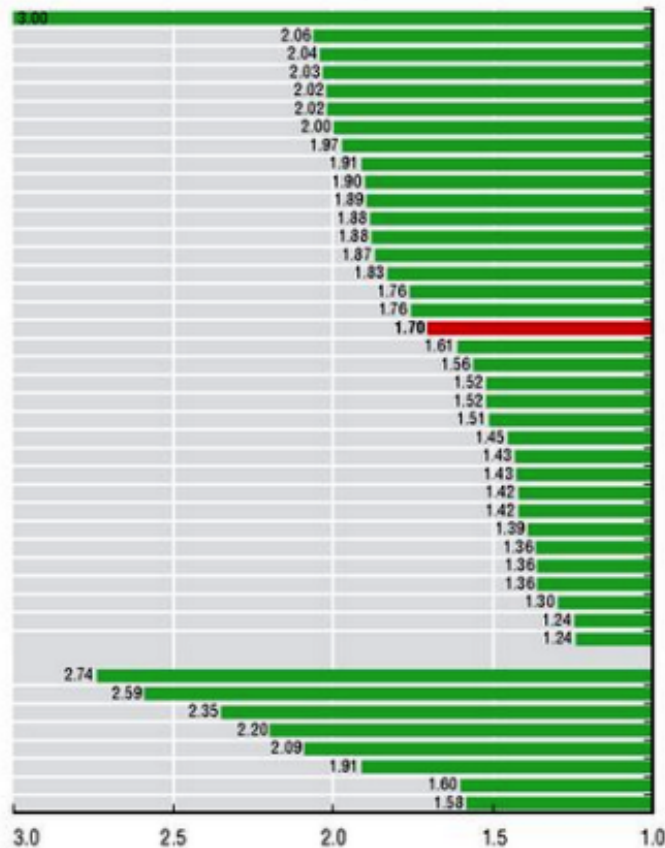


Panel B. Rise in life expectancy between 1970 and 2011 (in years)

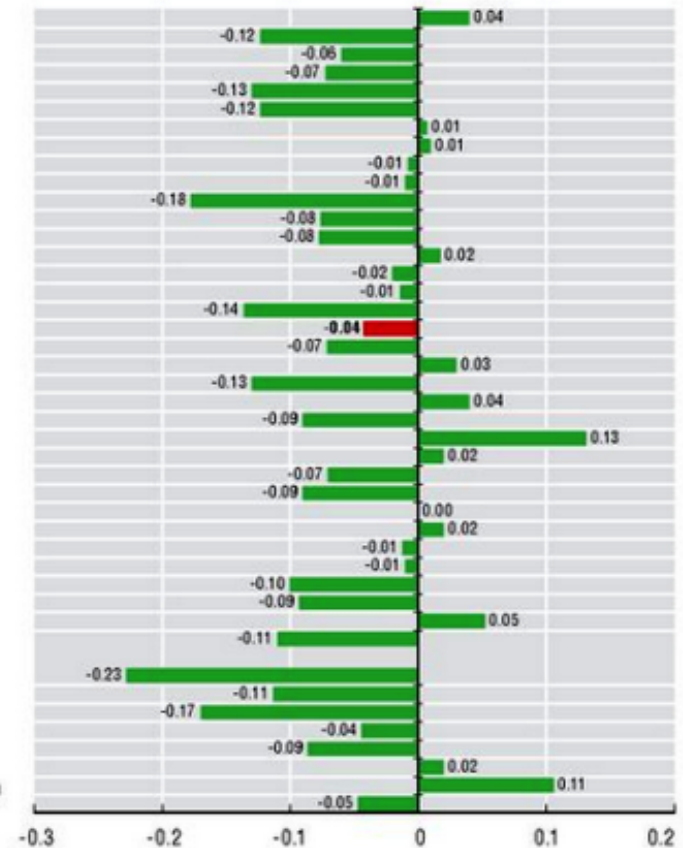


### 3.3. Fertility rates across the OECD are typically below replacement level with a moderate decline since the crisis

Panel A. Total fertility rate in 2011 (↘)  
Number of children per woman

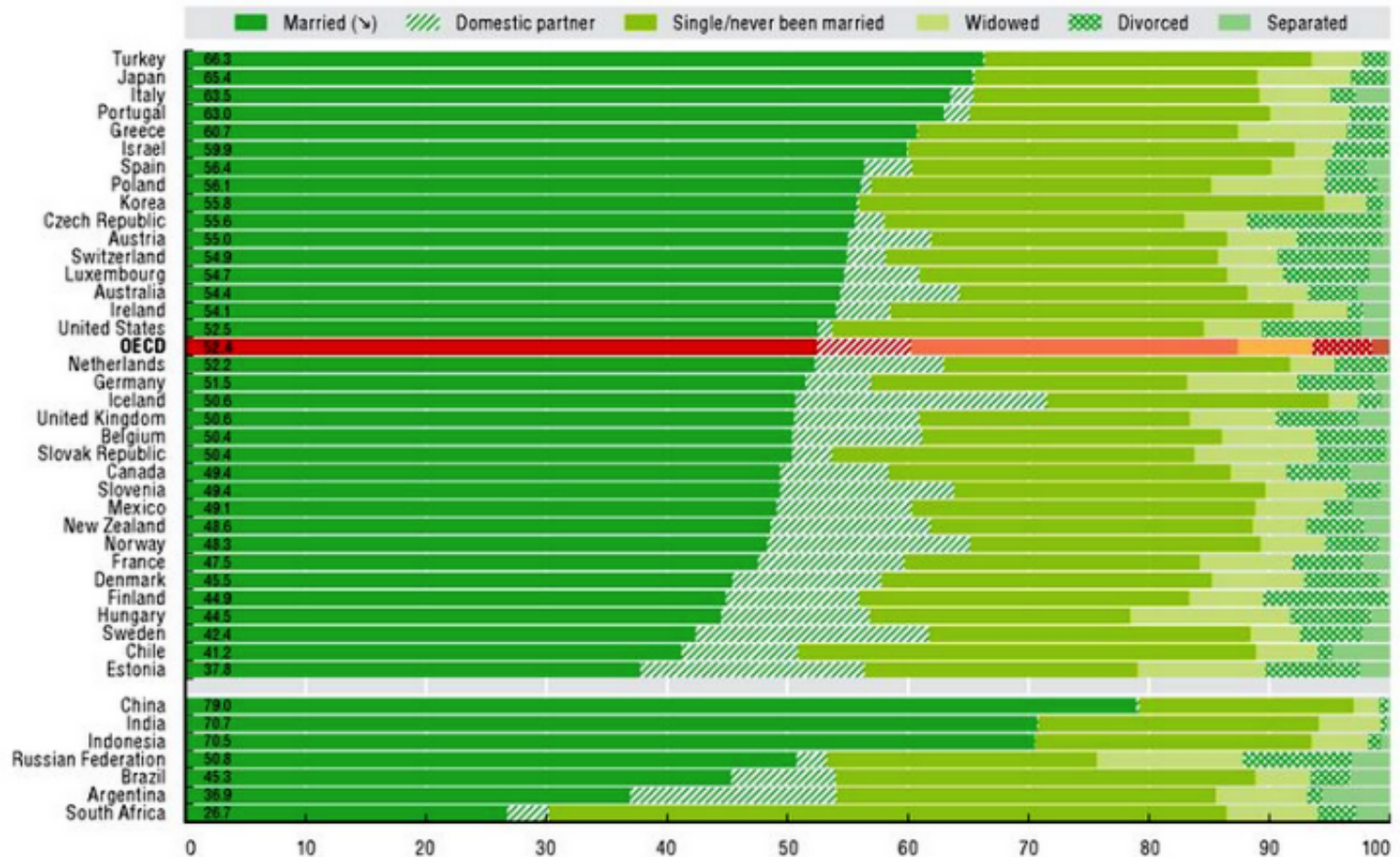


Panel B. Difference in TFR (number of children per woman)  
between 2008 and 2011



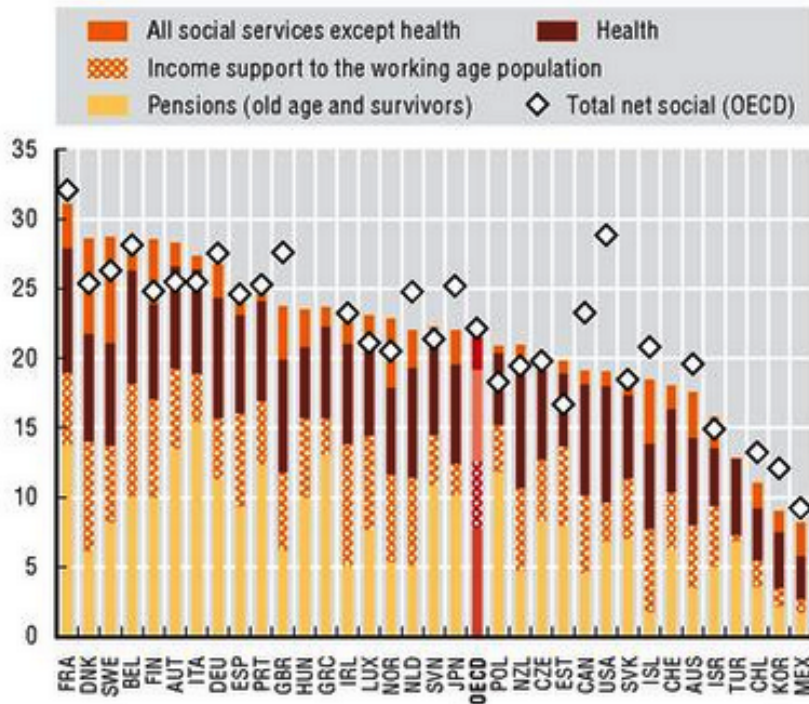
### 3.8. Large differences in households composition

Proportion of respondents aged 15 and over by relationship status, 2012, percentages sorted by married



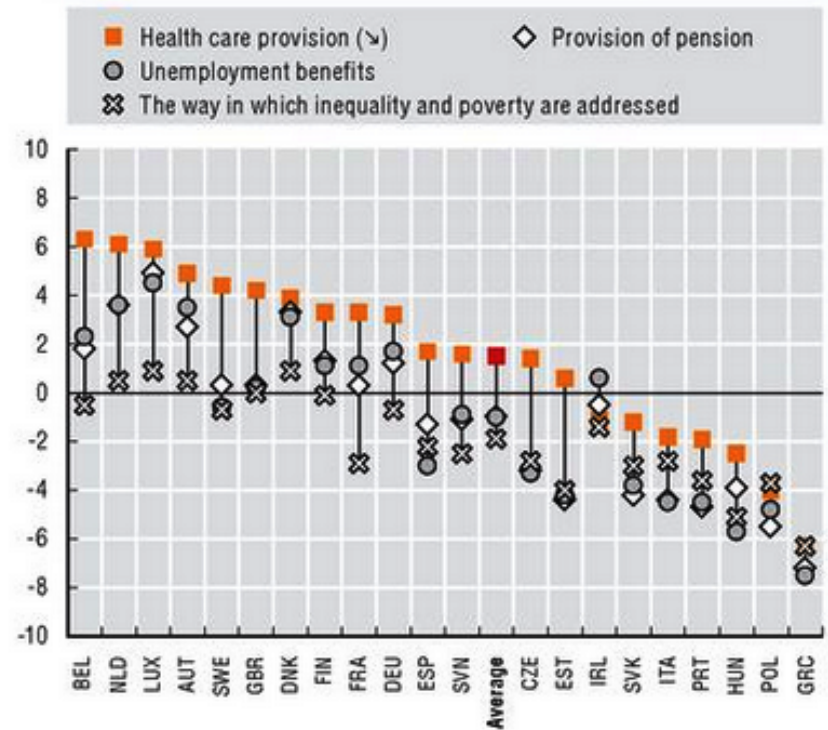
## 5.8. Most spending goes to pensions and health

Public social spending by broad policy area and total net social spending, in 2009, in percentage of GDP



## 5.9. Satisfaction with welfare state performance varies across European countries

Eurobarometer index on satisfaction for selected areas, 2012 (a neutral index is an index score close to 0 on a scale from -10 to 10)



# Facts About Hungary

- **Area:** 93,028 sq km
- **Population:** 9,897,541 (2015)
- **Age structure:** 0-14 years: 14.8%  
65 years and over: 18,24%
- **Median age:** 41,4 years
- **Life expectancy at birth:**total population: 75.69 years  
male: 71.96 years  
female: 79.62 years (2015)
- **Population growth rate:** -0.22% (2015)  
country comparison to the world: 216
- **Health expenditures:** 8% of GDP (2013)
- **Member of EU since 2004**



# **ORAL HEALTH and DENTAL MANAGEMENT in the BLACK SEA COUNTRIES**

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**Vol. IX, No. 4 - December, 2010**

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# Dentists

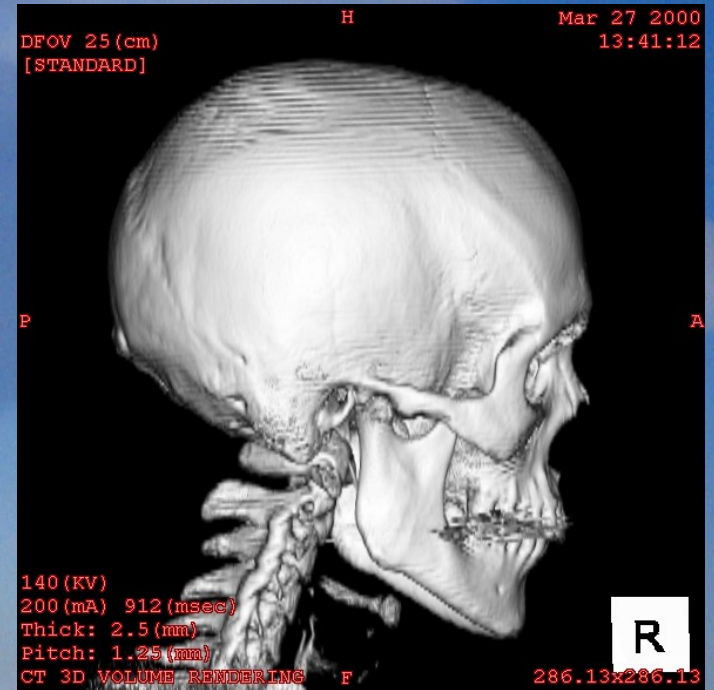
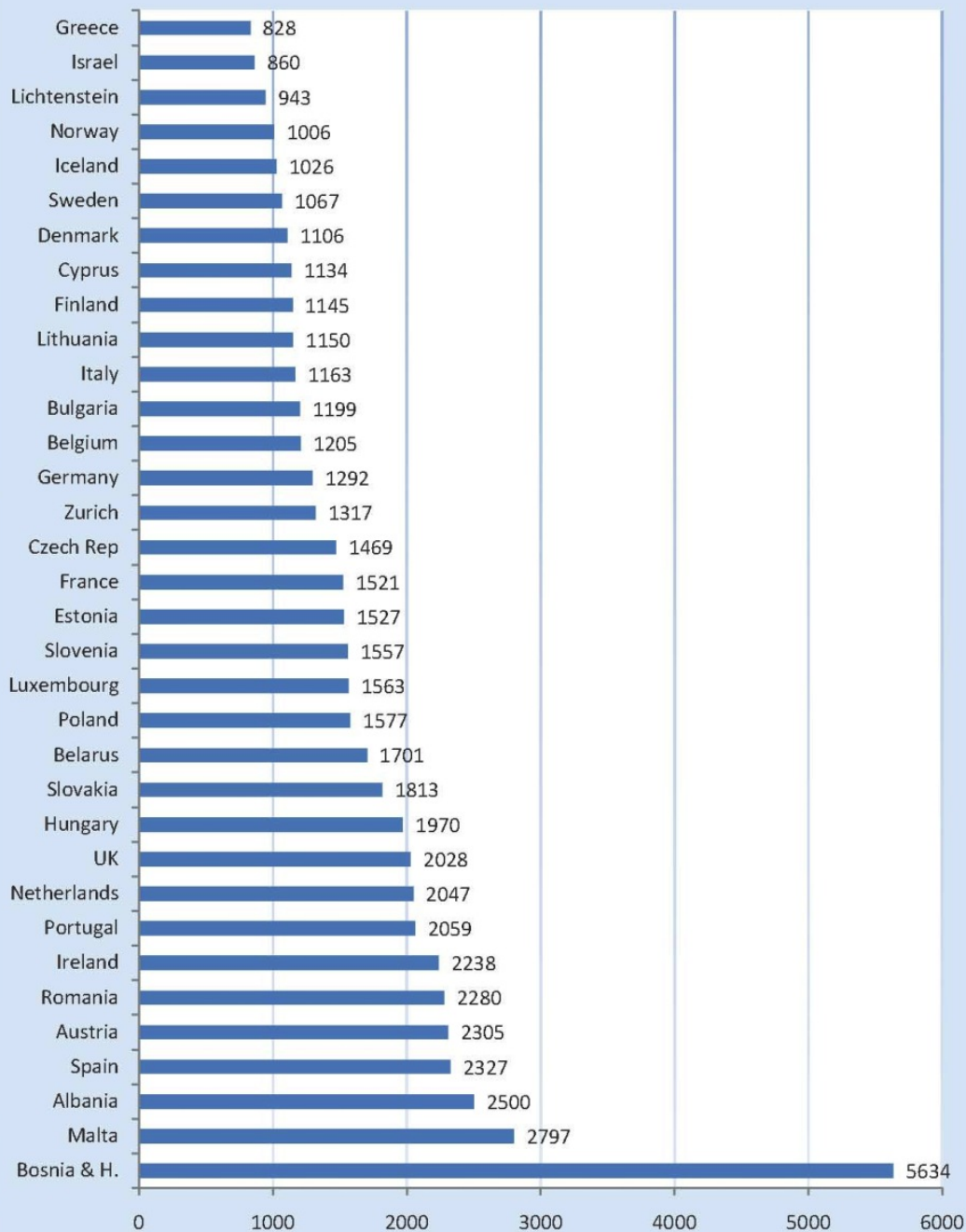
- Registered dentists: 7105
- Active dentists: 5613
- Patients for one dentist per capita: cc. 1760
- Male/Female: 42% / 58%



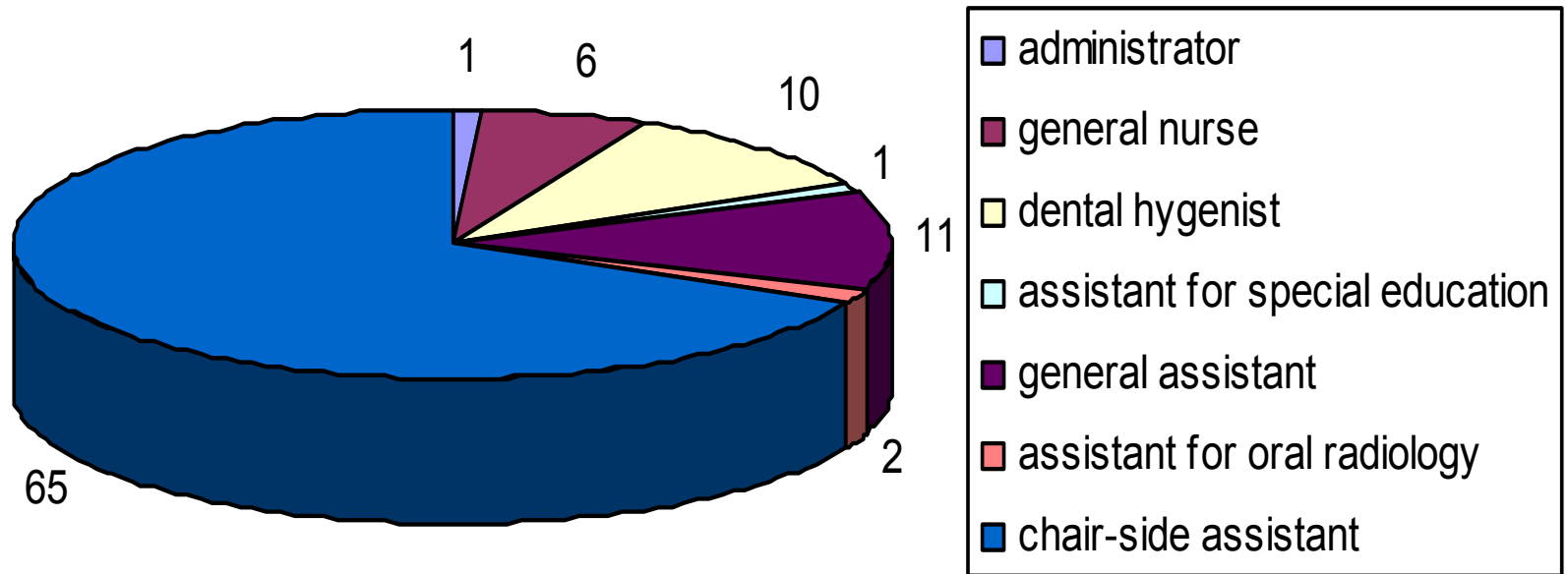
(ideal: 1200/dentist, good 2000/dentist, World Health Statistics Annual 1980, WHO, Geneva 1980.)



# Population per active dentist



# Distribution of assistants in Hungary based on original qualification



Dental hygienists: 2077  
Chair-side assistants: 4317  
Dental technicians: 1740

# Undergraduate Education

- There are four dental faculties in the country

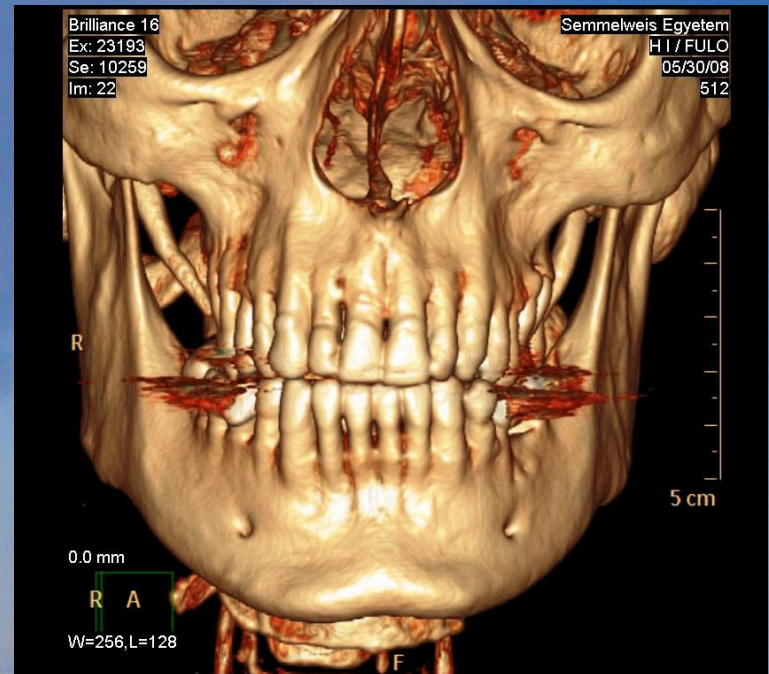
No of Dental Schools	4
No of publicly funded dental schools	4
No of privately funded dental schools	0
Is there controlled number of entries in publicly funded dental schools?	2270
Is there controlled number of entries in privately funded dental schools	0
No of students entering dental school in publicly funded dental schools in 2009	424
No of students entering dental school in privately funded dental schools in 2009	0
No of male students entering all dental schools public and private in 2009	195
No of female students entering all dental schools public and private 2009	229
Number of dental graduates in 2009	220
No of male dental graduates in 2009	117
No of female dental graduates in 2009	103
Duration of course in years	5
What % involves clinical practice	50
What % involves non clinical practice	50
Is Vocational training/internship obligatory	no



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- Szeged – University of Szeged (SZOTE) [www.szote.hu](http://www.szote.hu)
- Debrecen – University of Debrecen (DOTE) [www.dote.hu](http://www.dote.hu)
- Pécs – University of Pécs (POTE) [www.pote.hu](http://www.pote.hu)

# Postgraduate Education

- Dentoalveolar surgery
- Pediatric dentistry
- Conservative dentistry and prosthodontics
- Orthodontics
- Periodontology



# Specialisation of male dentists in different age groups

Specialization	Age groups											
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	Total
<i>Dento-alveolar surgery</i>	6	23	24	8	-	5	1	4	2	-	-	73
<i>Orthodontics</i>	7	11	19	27	11	22	10	10	1	-	-	118
<i>Pediatric dentistry</i>	-	2	1	2	1	-	-	-	-	-	-	6
<i>Orthodontics and Pediatric dentistry</i>	-	-	-	-	-	-	-	-	1	-	-	1
<i>Conservative dentistry and Prosthodontics</i>	16	47	42	31	41	36	14	27	13	2	-	269
<i>Periodontology</i>	1	7	4	6	2	-	5	4	1	-	-	30
<i>General oral surgery</i>	-	-	7	20	27	27	24	21	15	3	-	144
<i>General stomatology</i>	19	160	319	349	217	197	212	329	268	43	2	641
<b>Total</b>	<b>49</b>	<b>250</b>	<b>416</b>	<b>443</b>	<b>299</b>	<b>287</b>	<b>266</b>	<b>395</b>	<b>301</b>	<b>48</b>	<b>0</b>	<b>2754</b>

# Specialisation of female dentists in different age groups

	Age groups											
<b>Specialization</b>	<i>20-24</i>	<i>25-29</i>	<i>30-34</i>	<i>35-39</i>	<i>40-44</i>	<i>45-49</i>	<i>50-54</i>	<i>55-59</i>	<i>60-64</i>	<i>65-69</i>	<i>70-74</i>	<i>Total</i>
<i>Dento-alveolar surgery</i>	3	12	9	-	-	-	-	1	-	-	-	<b>25</b>
<i>Orthodontics</i>	7	34	52	69	47	48	26	9	3	-	-	<b>295</b>
<i>Pediatric dentistry</i>	-	3	-	2	-	3	-	1	-	1	-	<b>10</b>
<i>Orthodontics and Pediatric dentistry</i>	-	-	1	-	1	-	5	5	2	1	-	<b>15</b>
<i>Conservative dentistry and Prosthodontics</i>	33	70	16	51	50	14	6	6	3	-	-	<b>249</b>
<i>Periodontology</i>	1	3	1	7	5	2	1	-	2	-	-	<b>22</b>
<i>General oral surgery</i>	-	-	2	2	11	11	11	22	6	1	-	<b>66</b>
<i>General stomatology</i>	45	369	428	471	353	420	368	410	160	50	7	<b>3081</b>
<b>Total</b>	<b>89</b>	<b>491</b>	<b>509</b>	<b>602</b>	<b>467</b>	<b>498</b>	<b>417</b>	<b>454</b>	<b>176</b>	<b>53</b>	<b>7</b>	<b>3763</b>

# Continuing Professional Development

- Mandatory since 1999
- System delivered by the Dental Section of the Hungarian Medical Chamber
- Scoring system with accredited continuing education courses
- Minimum of 250 points is to be achieved every 5 years
- Sanction for noncompliance is suspension from practice

# National Health Insurance System

- National Health Insurance Company provides oral health care for most of the population.
- 70% of dentists contracted with the National Health Insurance Fund
- 20% work on an entirely private basis
- 50% both contracted with the National Health Insurance Fund and have an independent practice



# Oral Health Insurance System

Clinical treatment costs	Children (0-18)	Orthodontic (0-18)	(18-62)	Elderly (62+)
<i>Free of charge</i>	Every treatment, Emergency treatment	if begun before the age of 16	Oral screening, emergency treatment, fillings, root canal treatment, perio treatment and oral surgery, emergency treatment	Every treatment, Emergency treatment
<i>Full clinical price</i>			Fixed and removable prosthetic and orthodontic appliances, every other treatment	
<i>Full laboratory price</i>		Removable appliance Fixed appliance	Fixed and removable appliances	Fixed prosthesis
<i>Half of the laboratory price</i>				Removable prosthesis

National Center for Healthcare

Audit and Improvement

# Average percentage of GNP falling on oral heath care in 2009

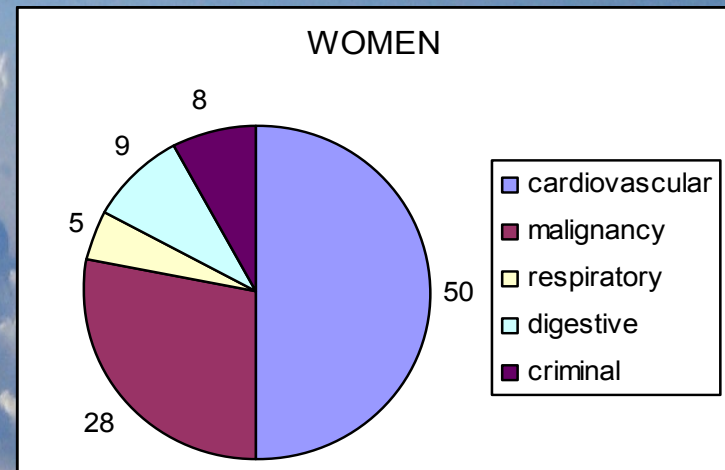
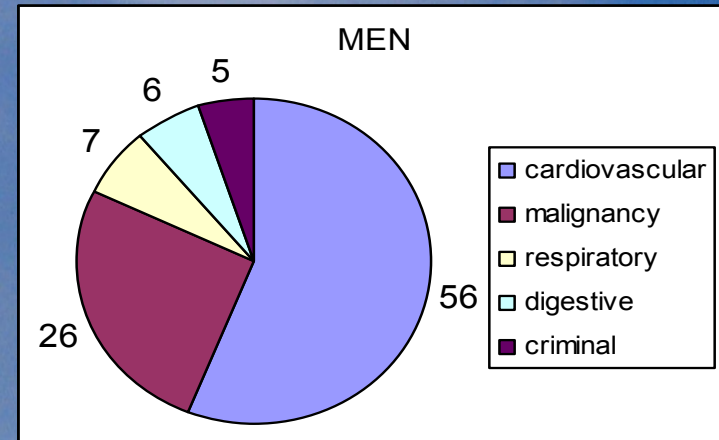
## Health Expenditure

	% of GDP Spent on Health	% of Healthcare spent on Dentistry	Annual Expenditure on Oral Health Care	Year 2009
Total	4.9	7.8	<b>78.3 million EUR</b>	

# General Health Status of the Population

- Extremely unfavourable for many years
- Life expectancy for men: 68 years
- Life expectancy for women: 70 years
- Most frequent causes of mortality:
  - Cardiovascular diseases
  - Malignant diseases
  - Respiratory diseases
  - Digestive diseases

Causes of death among Hungarian men and women



# Per capita cigarette consumption-top five consuming countries (1990-1992) among 111 countries

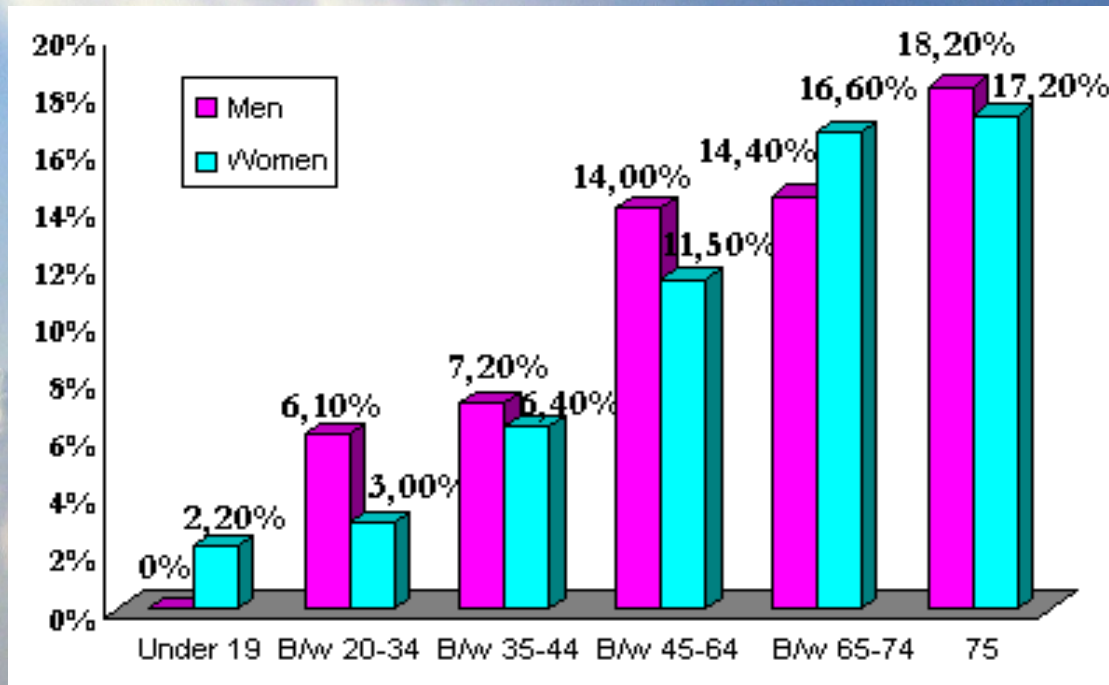
	1970-72	1980-82	1990-92	Rank
Poland	3.010	3.400	3.620	1
Greece	2.640	3.440	3.590	2
Hungary	2.940	3.320	3.260	3
Japan	2.950	3.430	3.240	4
Korea, Rep.	2.370	2.750	3.010	5

# Age-adjusted death rates (per 100000 population) for cancer of the oral cavity and pharynx - top five of 46 countries worldwide

Country	Male (rank)	Female (rank)
Hungary	18,5 (1)	2,4 (1)
France	12,0 (2)	1,3 (7)
Croatia	11,7 (3)	1,1 (17)
Slovenia	11,2 (4)	0,9 (3-4)
Romania	11,1 (5)	1,0 (24)

# Oral mucosa lesions

Epidemiology of tobacco habits show steep increase in Hungary.  
Highest incidence and mortality from oro-pharyngeal cancer worldwide.  
Age adjusted death rates for oral cancer are in the top five of 46 countries.  
Frequency of oral mucosa lesions compared to healthy status:  
11,14% for men  
9,41% for women.



Distribution of oral mucosa lesions in the population according to age and sex

# Comparison of the most common cancers in males in more and less developed countries, in 2000

(Source: WHO International Agency for Research on Cancer, 2003)

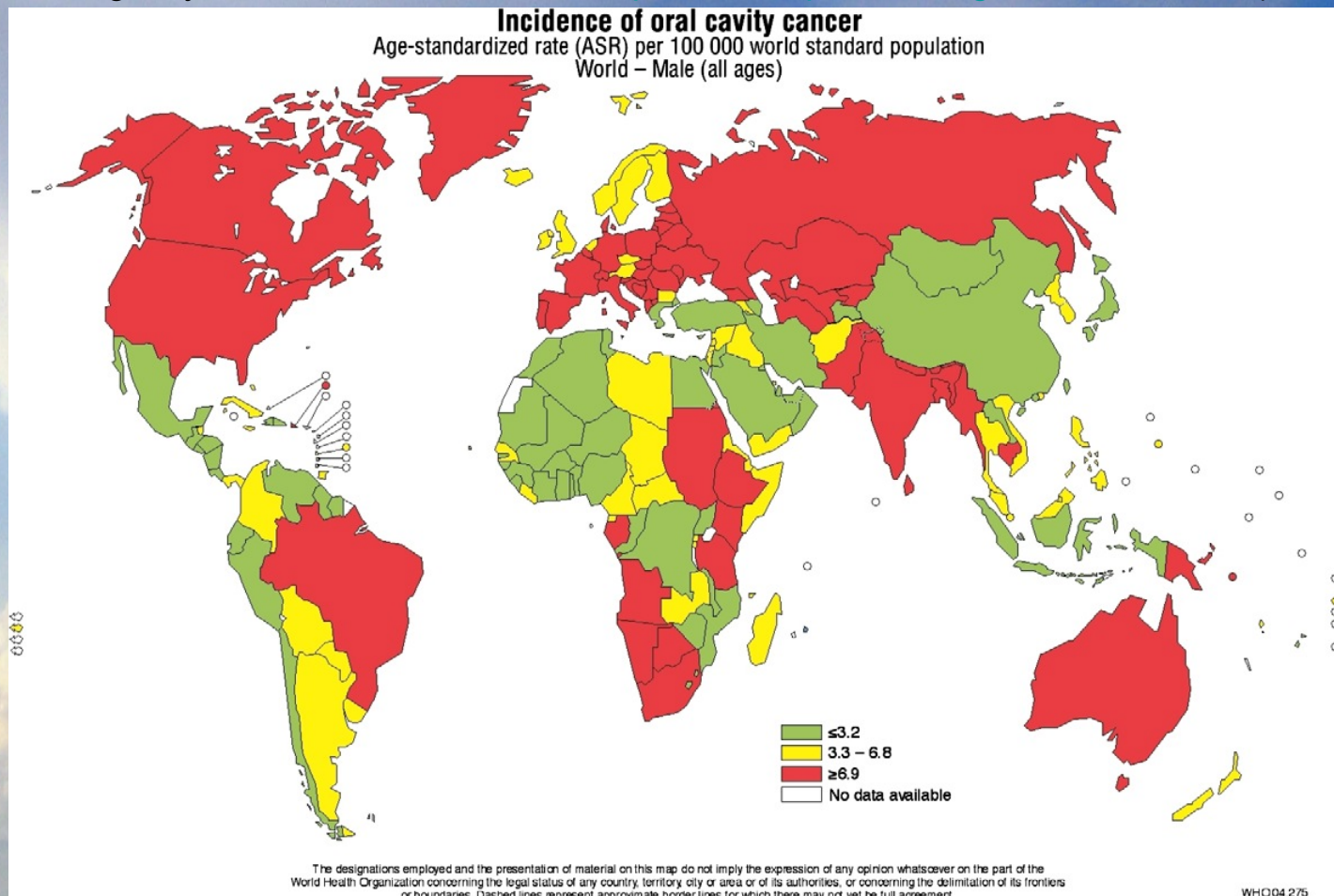


Petersen, PE: Oral cancer prevention and control – The approach of the World Health Organization

Oral Oncol (2008). doi:10.1016/j.oraloncology.2008.05.023

# Incidence of oral cavity cancer among men expressed by level of Age-standardized rate in countries of the world

(Source: Based on GLOBOCAN 2002 International Agency for Research on Cancer <http://www.depd.b.iarc.fr/globocan2002.htm>)



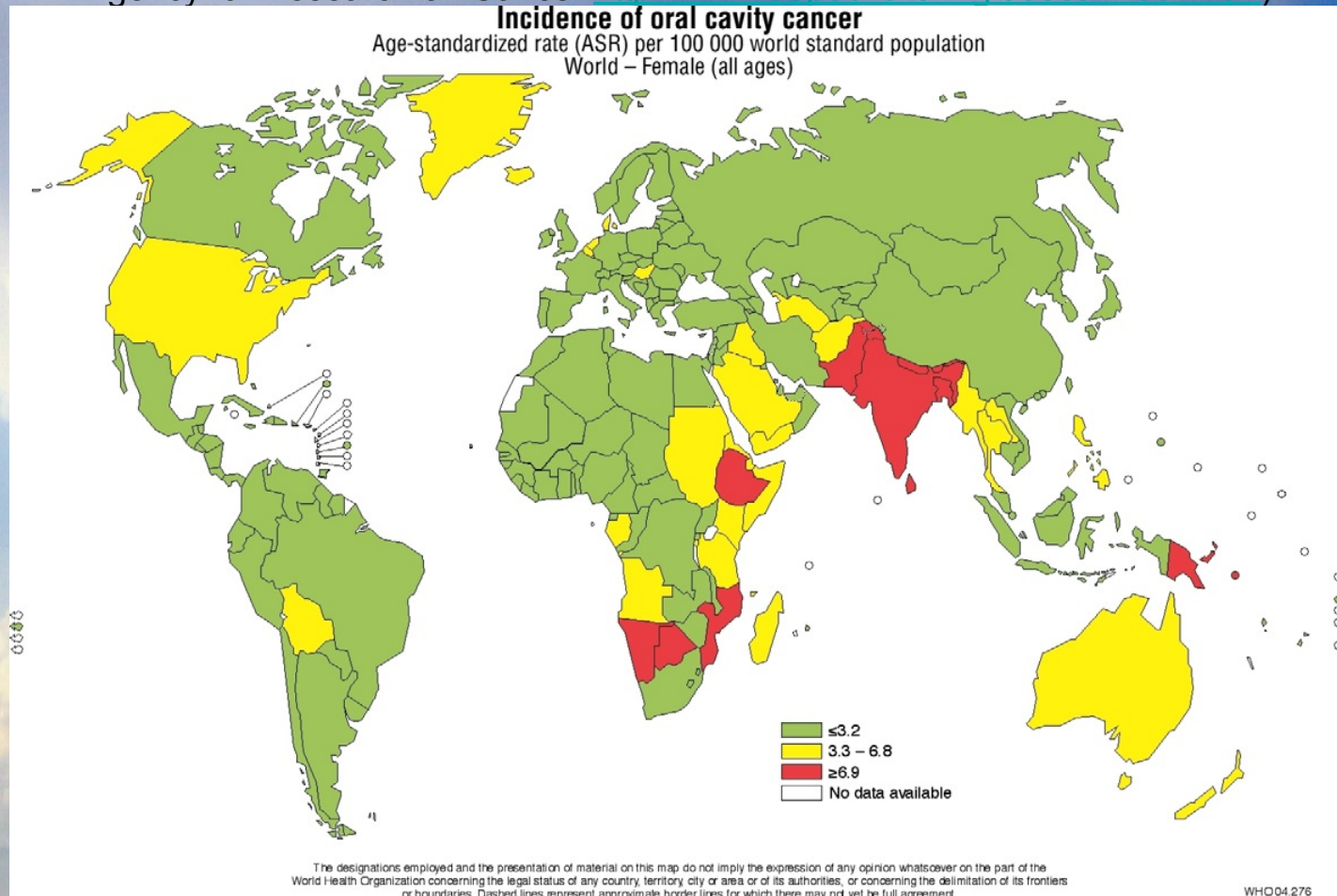
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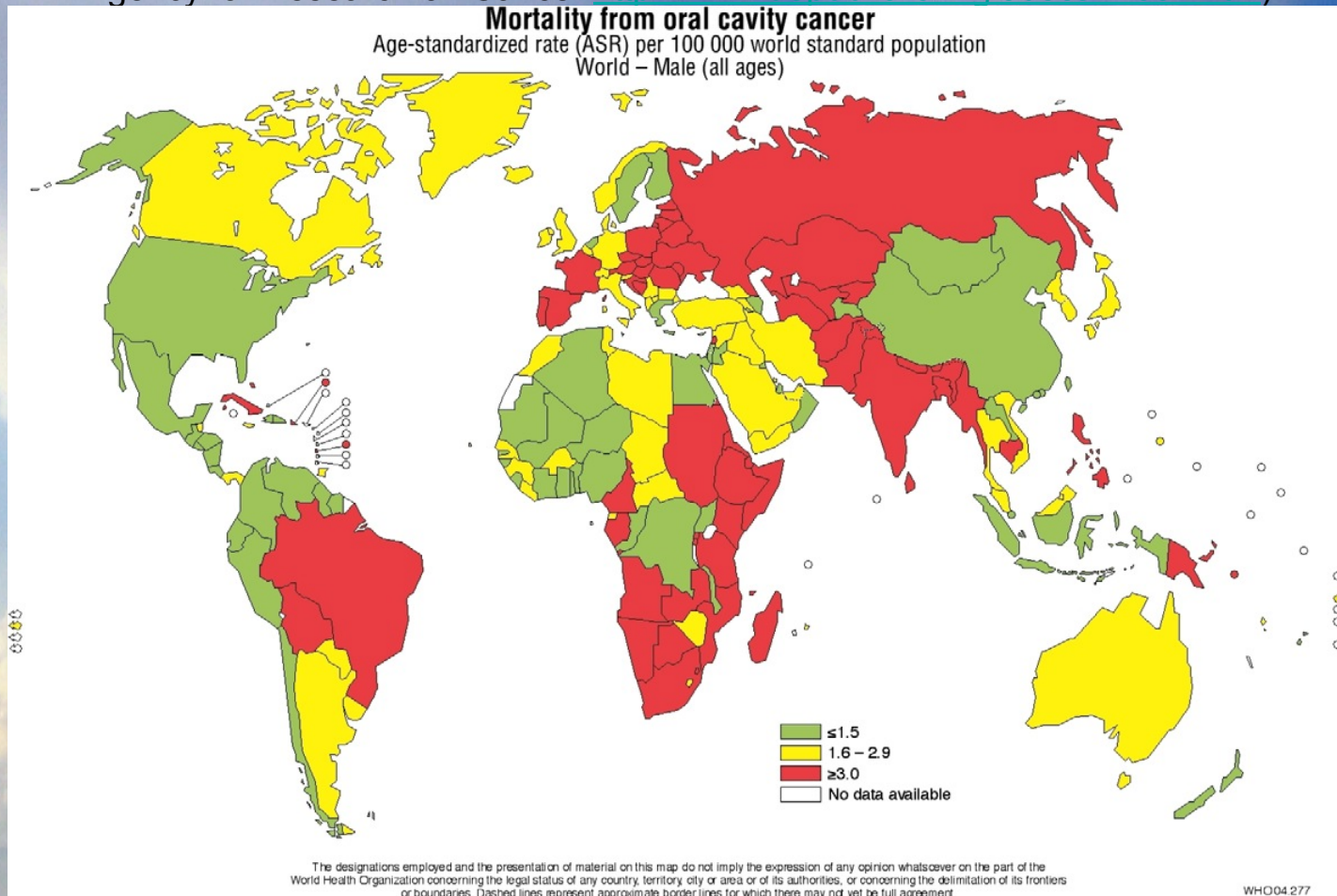


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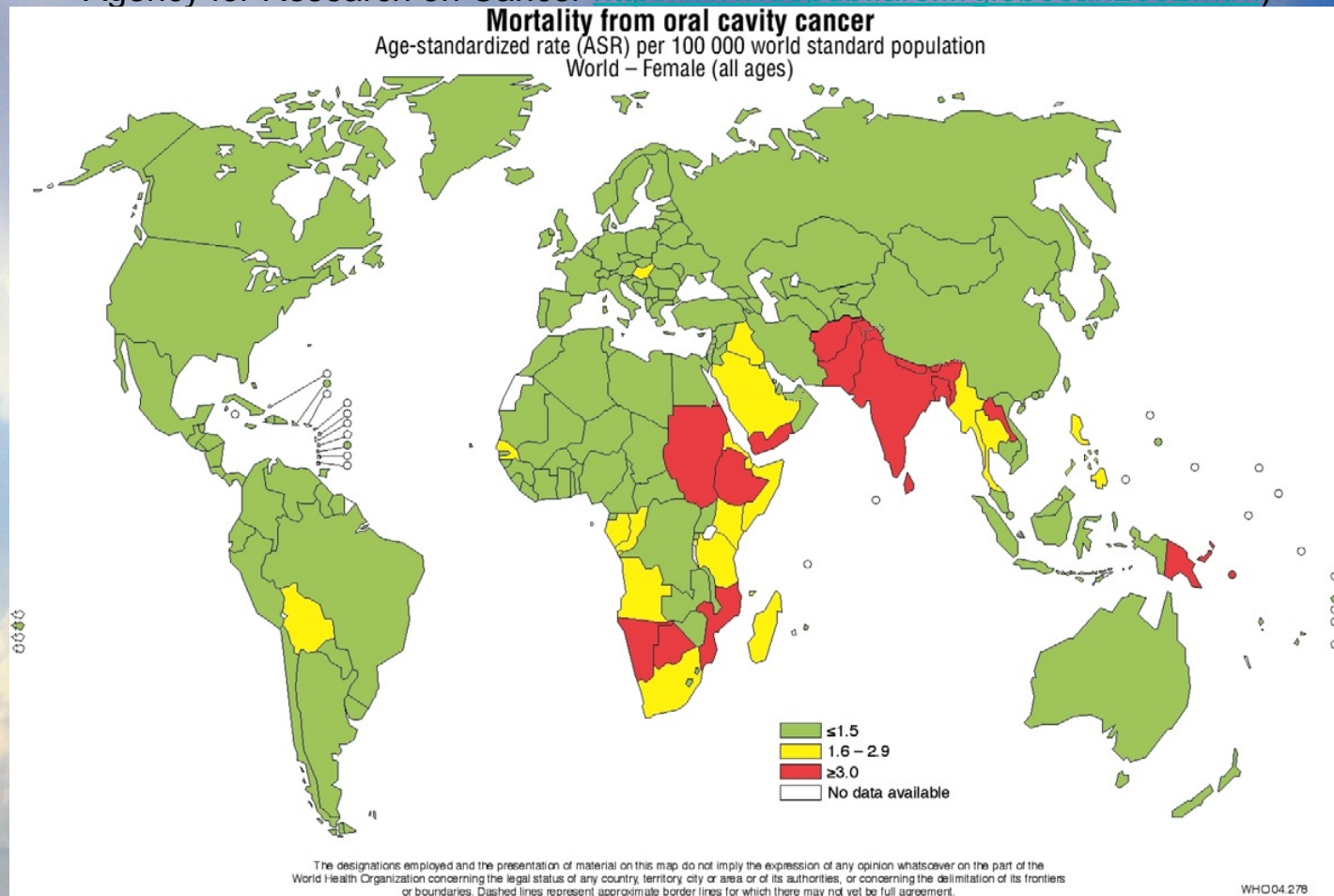


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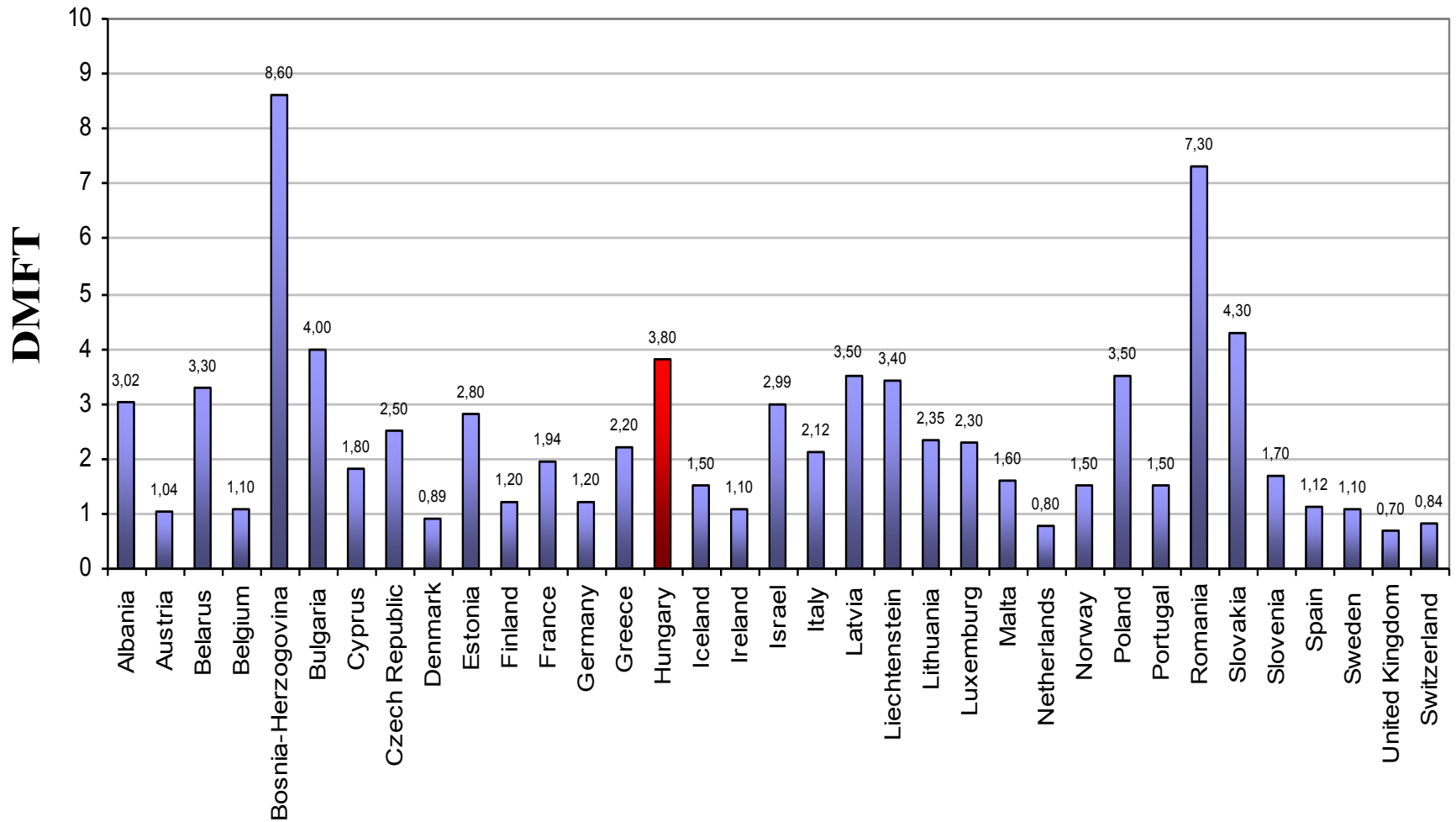
(Source: Based on GLOBOCAN 2002 International Agency for Research on Cancer <http://www.depdb.iarc.fr/globocan2002.htm>)



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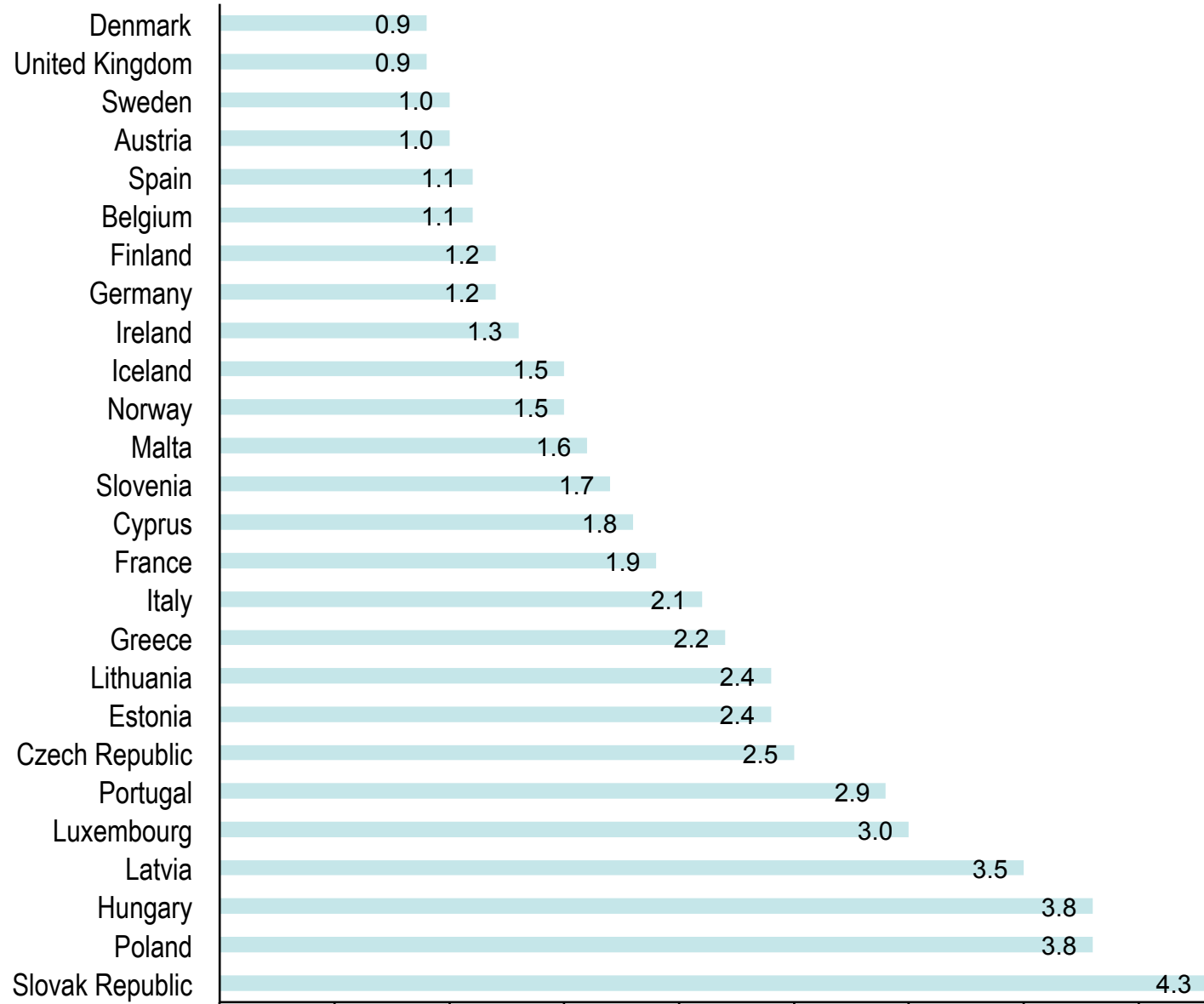
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# Mean DMFT among 12 year-olds in different countries

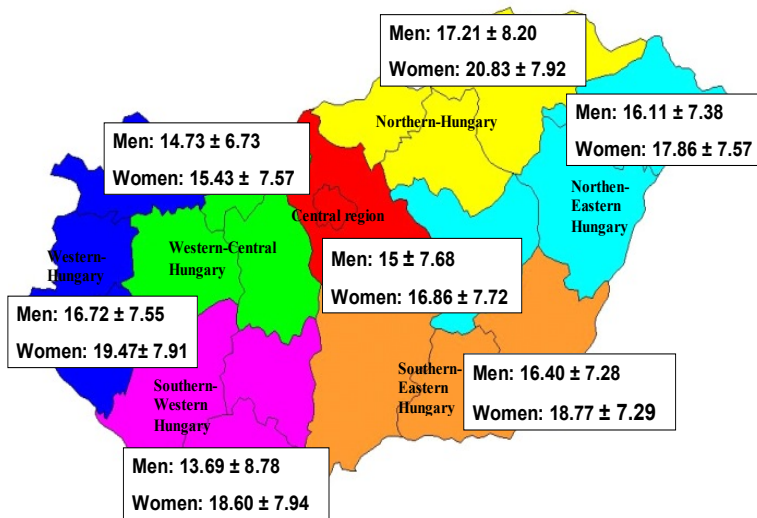


# DMFT index of the Hungarian population

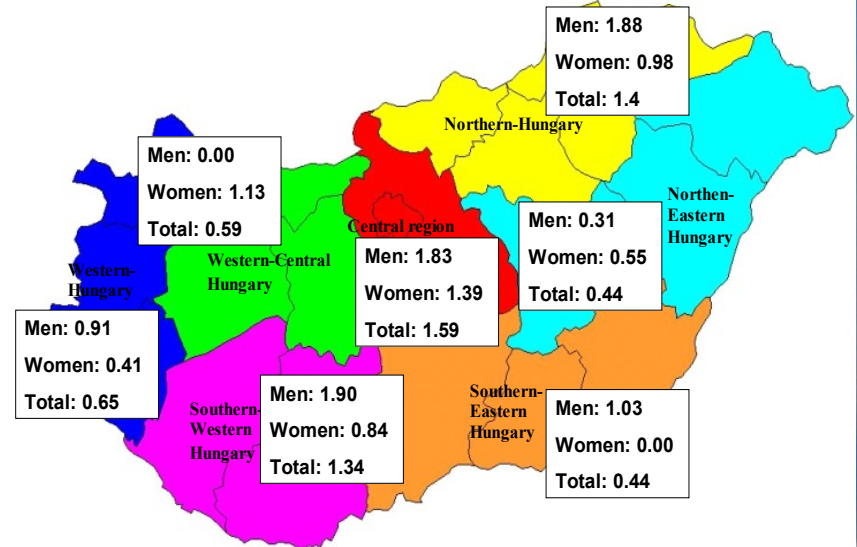
The average overall DMFT index of the Hungarian population is  $12.84 \pm 6.99$ . DMFT at age 12 was 3.8, percentage of 12-year-old children with DMFT 0 was 56% in 2007. The average ratio of patients regularly visiting their dentist and patients turning to dentist only with acute complaints is about 32 : 68.

## Incidence of caries in the population according to sex and territory

Caries prevalence (DMFT) in the examined population in statistical regions by gender



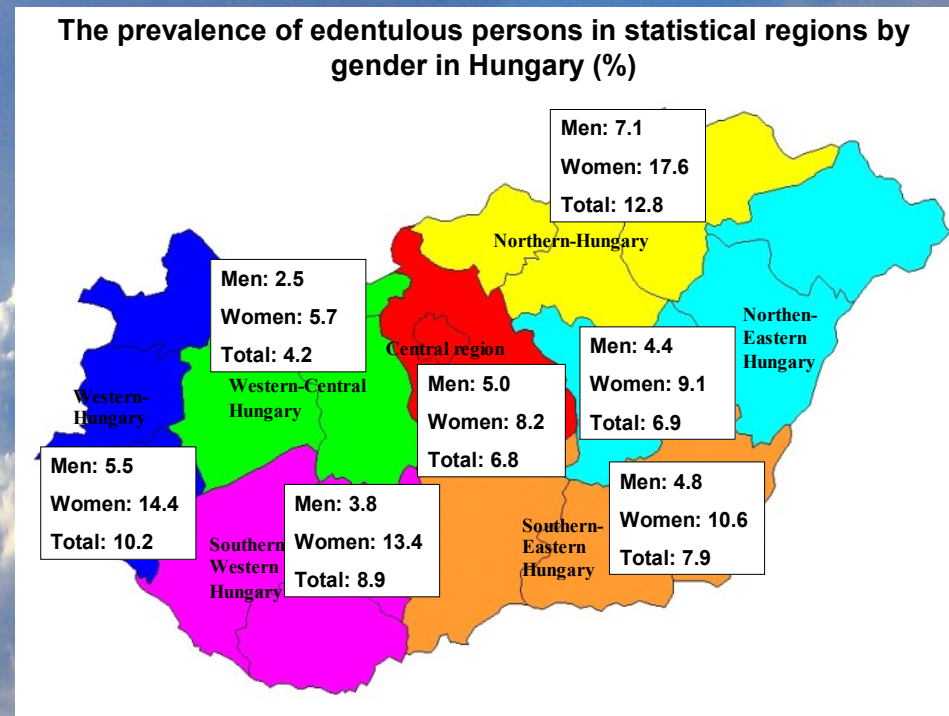
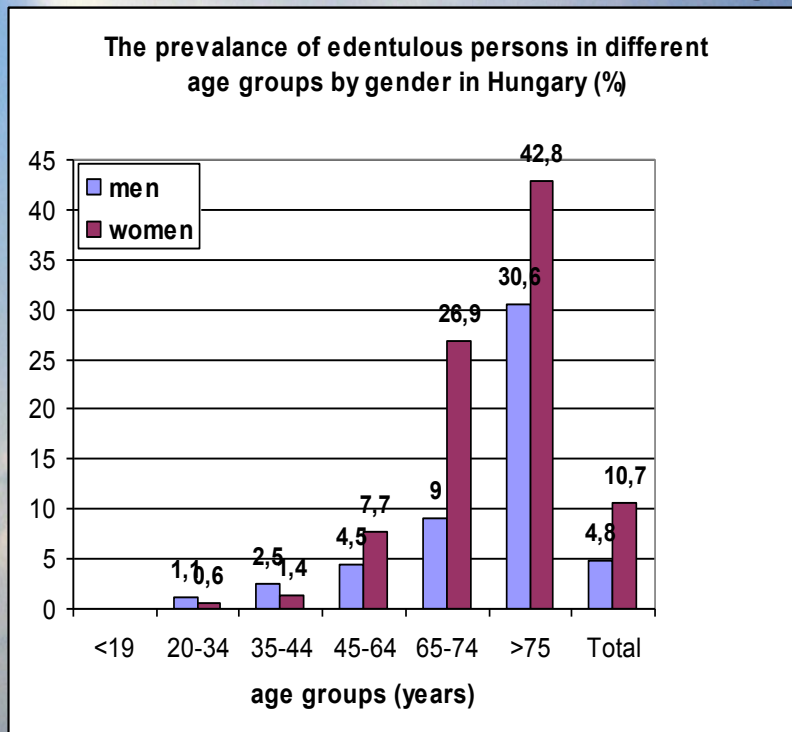
The prevalence of caries free persons in statistical regions by gender in Hungary (%)



# Edentulous patients

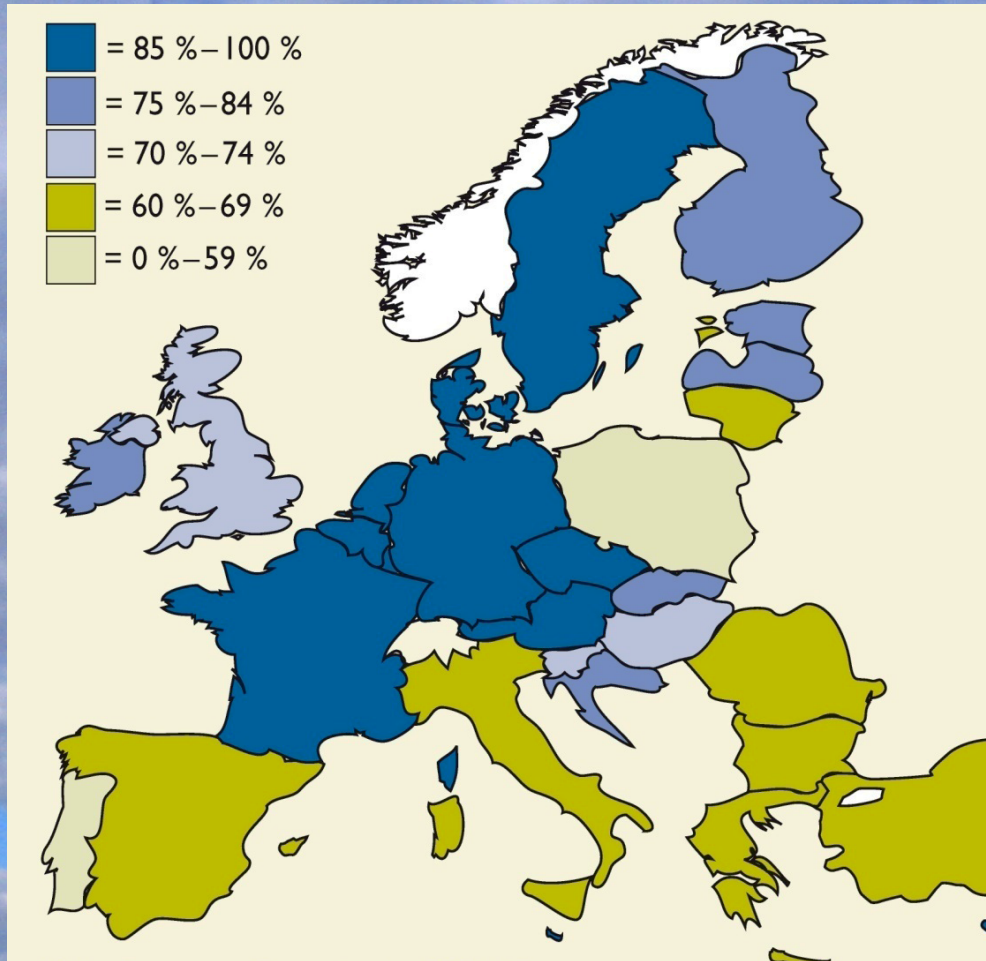
The majority of prosthetic treatment plans for patients over 65 years is total or partial denture making. 24,1% of the population over 65 years is completely edentulous and for them, the National Health Insurance Fund ensures the medical fee for one denture every four years, this way patients have to pay only for the dental technical work phases.

## Incidence of edentulousness in the elderly population according to age, sex and territory





# 2007 EU Citizens Stating Their Satisfaction EU Satisfaction with Dental Care (%)



Source: European Commission 2007EU

# Dental Tourism

National Center for Healthcare  
Audit and Improvement

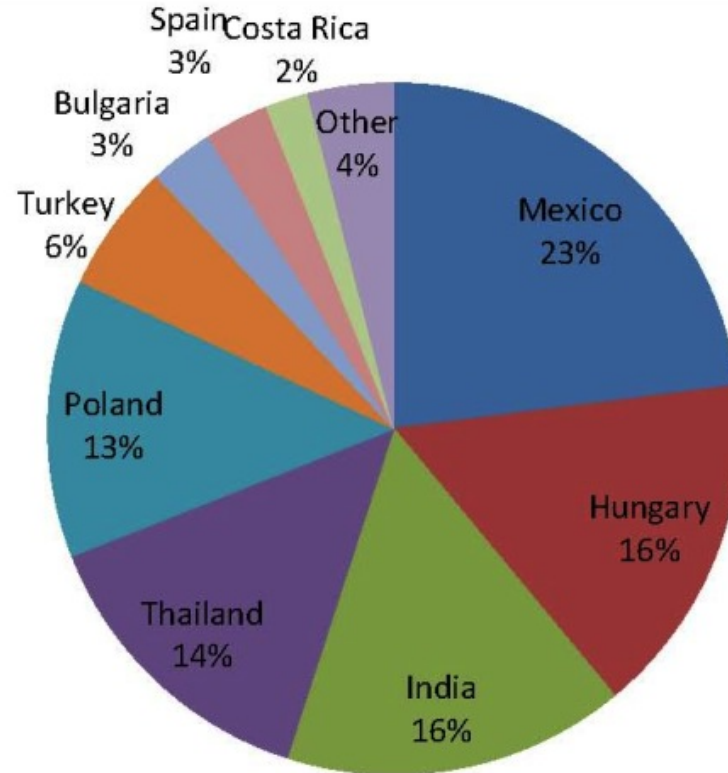
# Destinations for Medical Tourism

Asia/Middle East	The Americas	Europe	Africa	Other
China	Argentina	Belgium	South Africa	Australia
India	Brazil	Czech Republic	Tunisia	Barbados
Israel	Canada	Germany		Cuba
Jordan	Colombia	Hungary		Jamaica
Malaysia	Costa Rica	Italy		
Singapore	Ecuador	Latvia		
South Korea	Mexico	Lithuania		
Philippines	United States	Poland		
Taiwan		Portugal		
Turkey		Romania		
United Arab Emirates		Russia		
		Spain		

MedGenMed. 2007; 9(4): 33.

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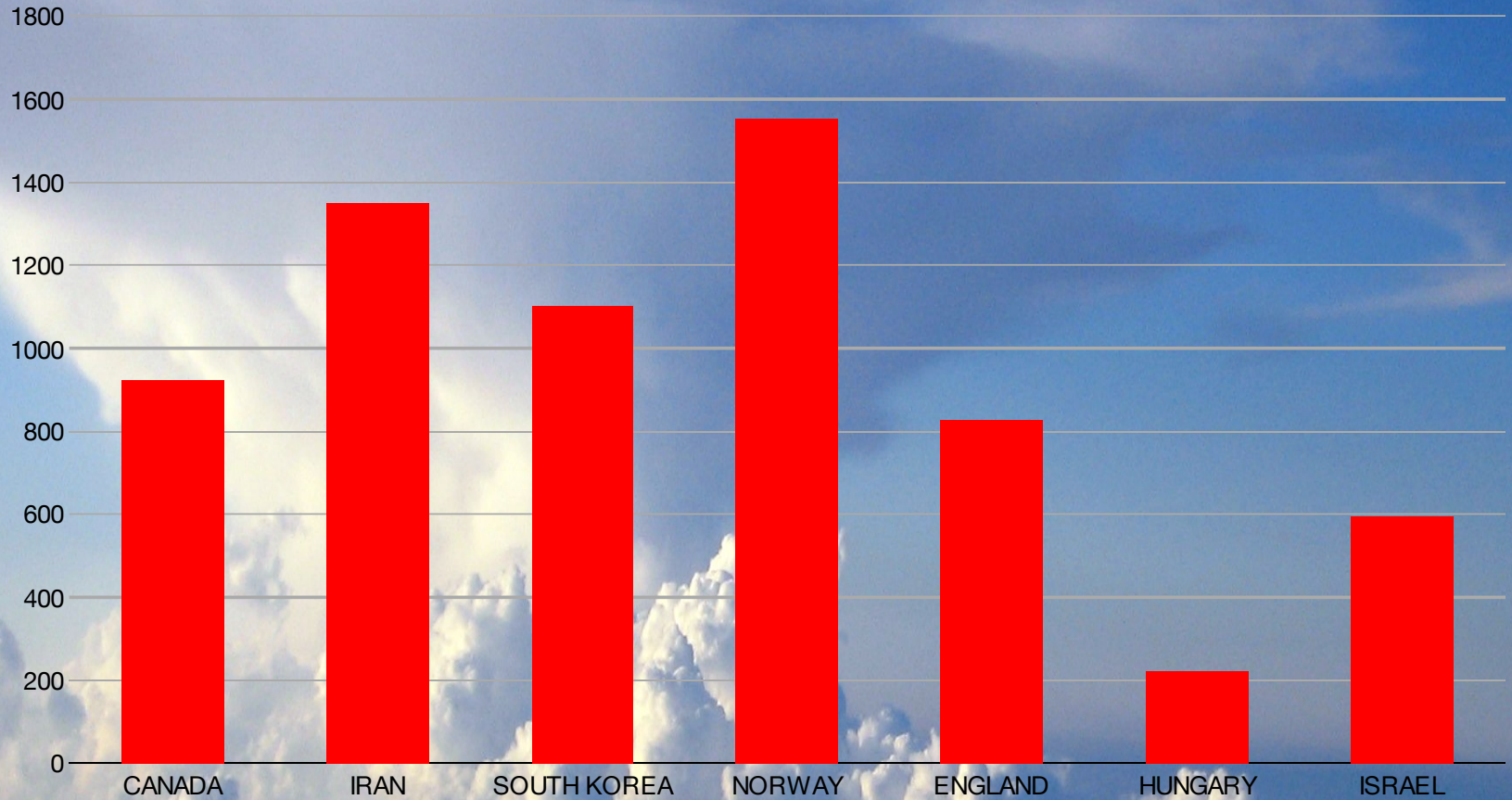
# Dental Tourism Supply



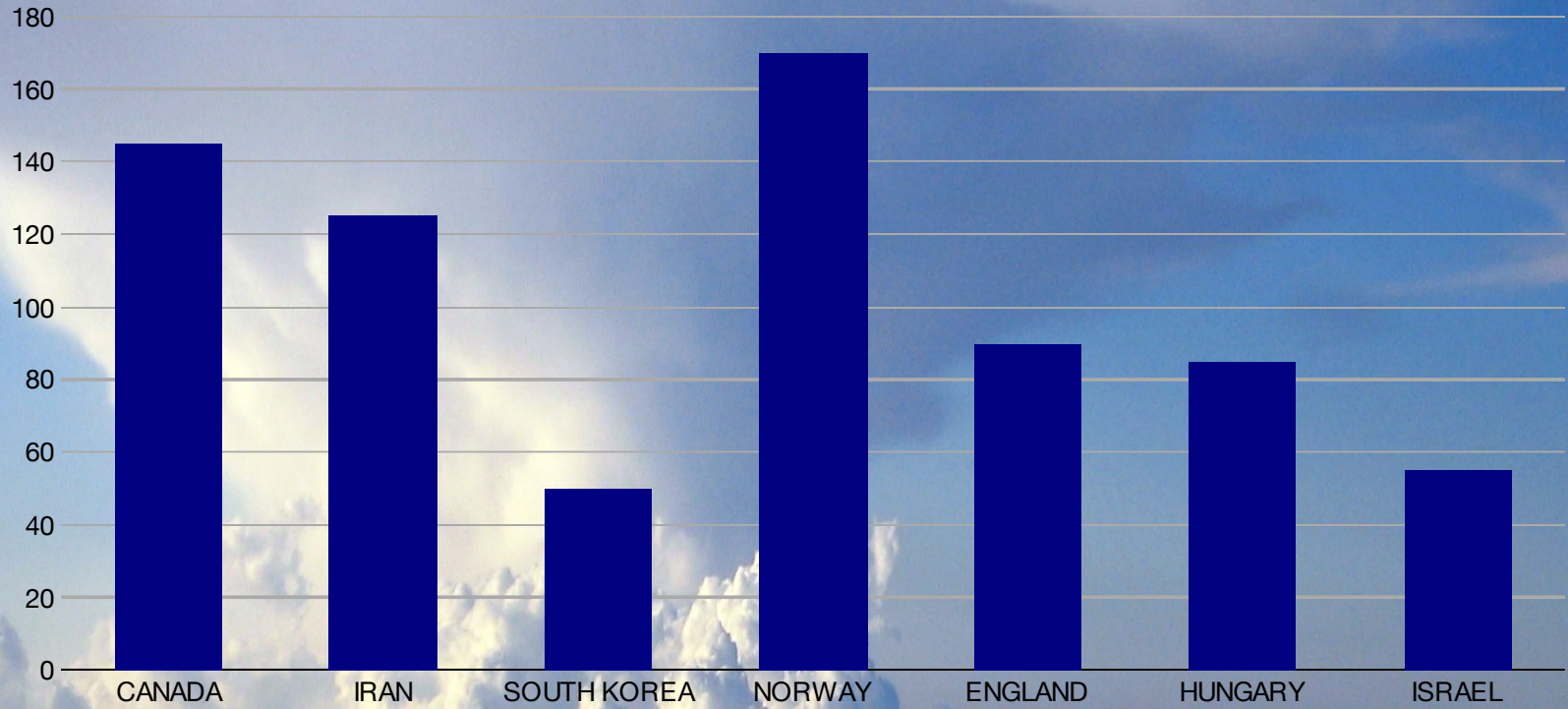
	CANADA	IRAN	SOUTH KOREA	NORWAY	ENGLAND	HUNGARY	ISRAEL
<b>Complete Denture</b>	925	1350	1100	1550	825	220	595
<b>Composite MOD</b>	145	125	50	170	90	85	55
<b>Solo PFM Crown</b>	705	305	270	670	295	65	290
<b>Ceramic Inlay</b>	440	80	700	620	295	95	160
<b>RCT (Single canal)</b>	320	140	30	230	295	40	200
<b>Simple Ex</b>	90	80	10	100	90	50	80
<b>Surgical Wisdom Ex</b>	160	230	15	190	140	65	200
<b>Single Implant</b>	1850	1250	1100	2600	2110	500	440

**• Prices are in Euros**

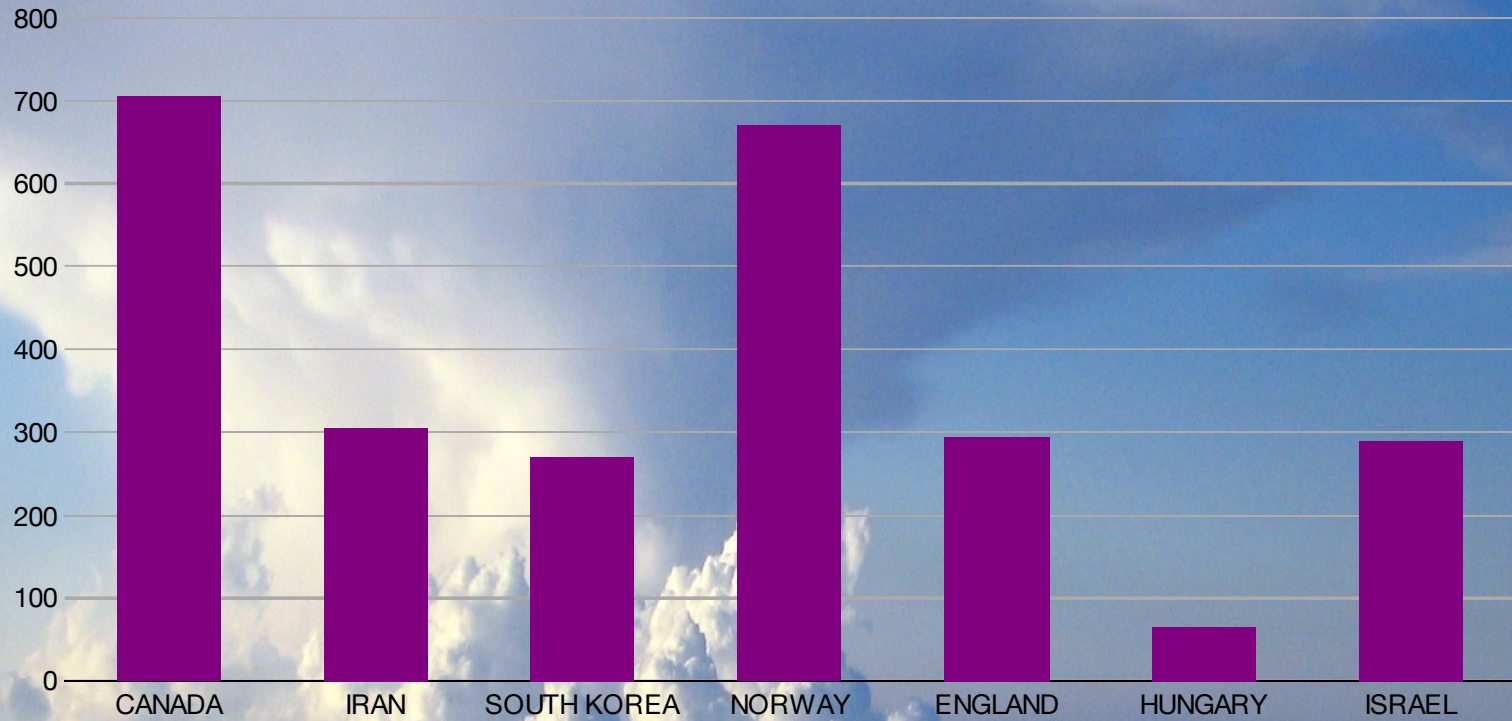
### Complete Denture (€)



### Composite MOD (€)

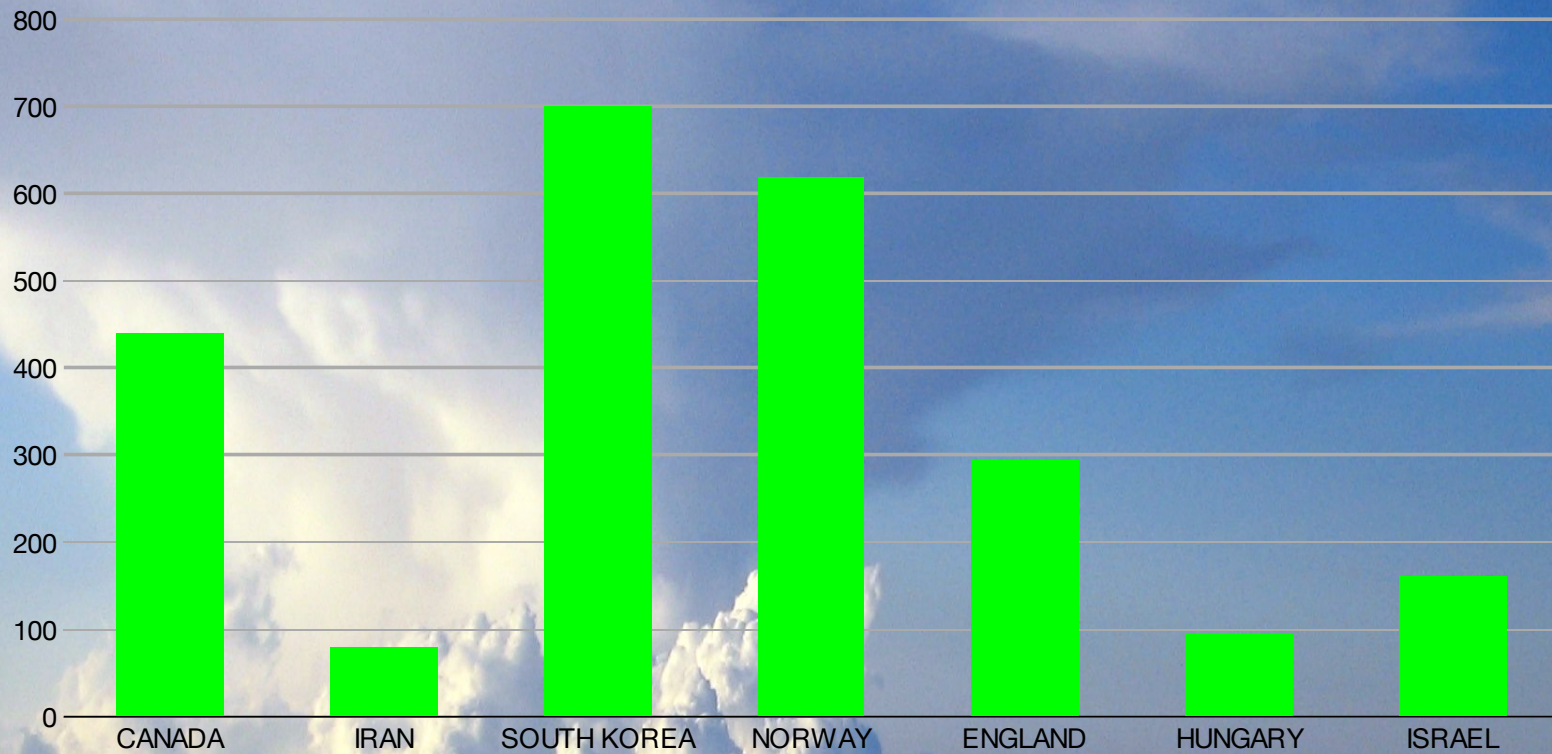


### Solo PFM Crown (€)

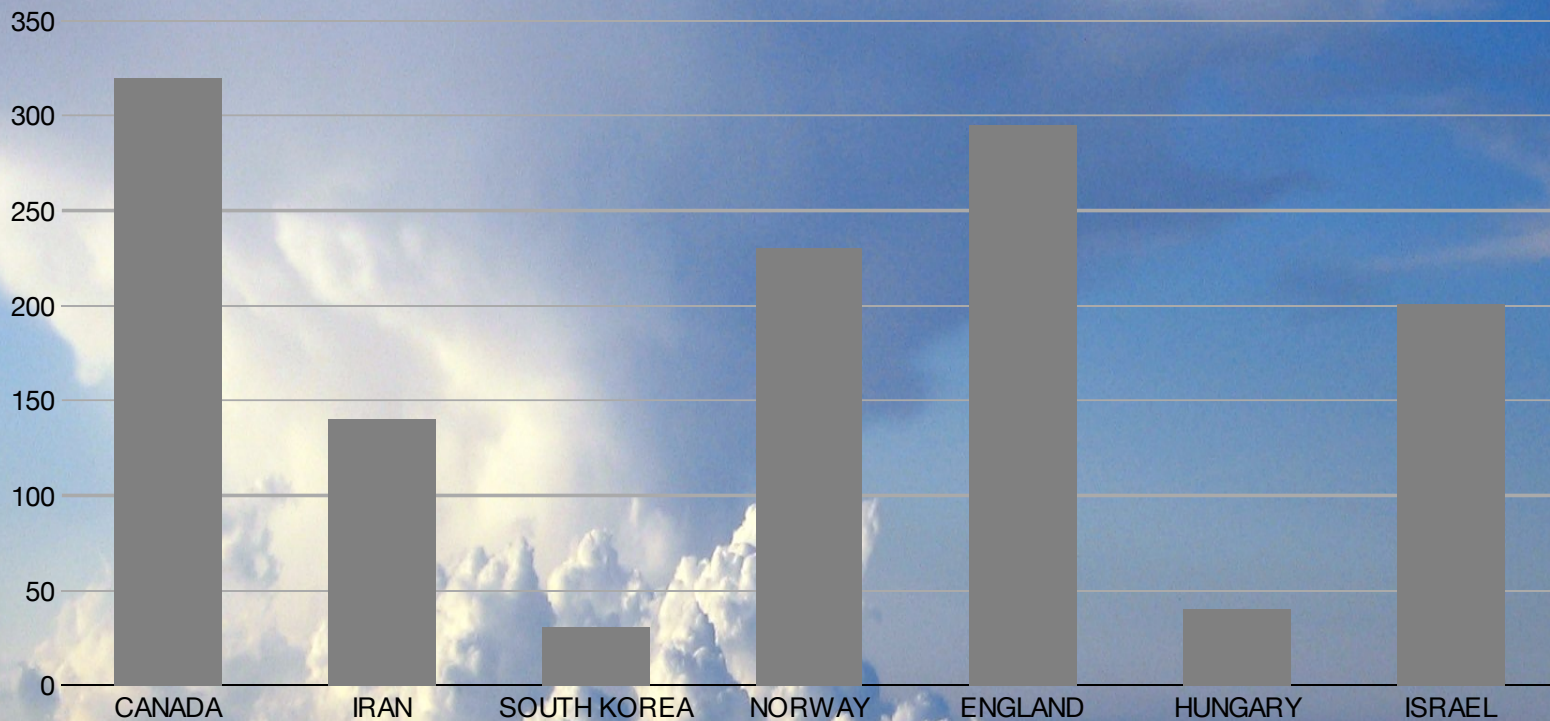




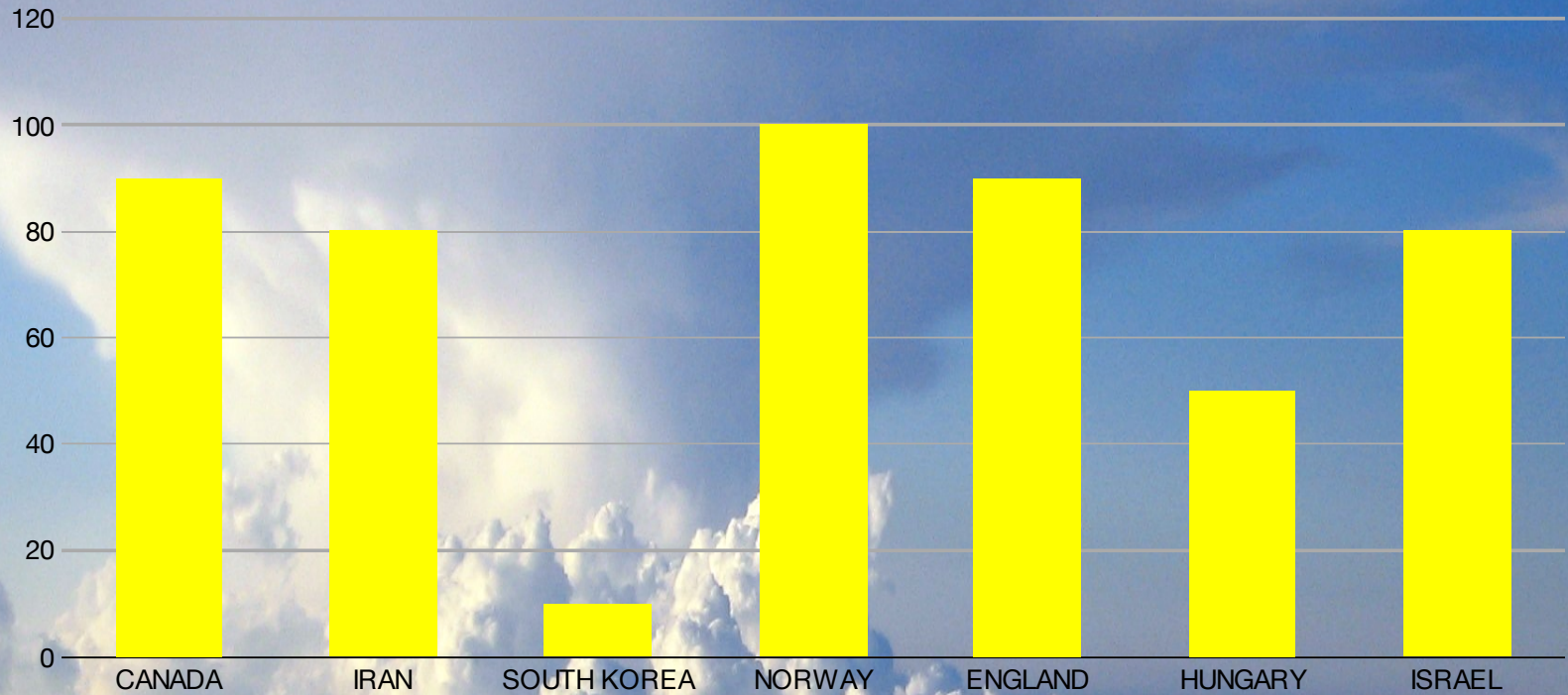
### Ceramic Inlay (€)



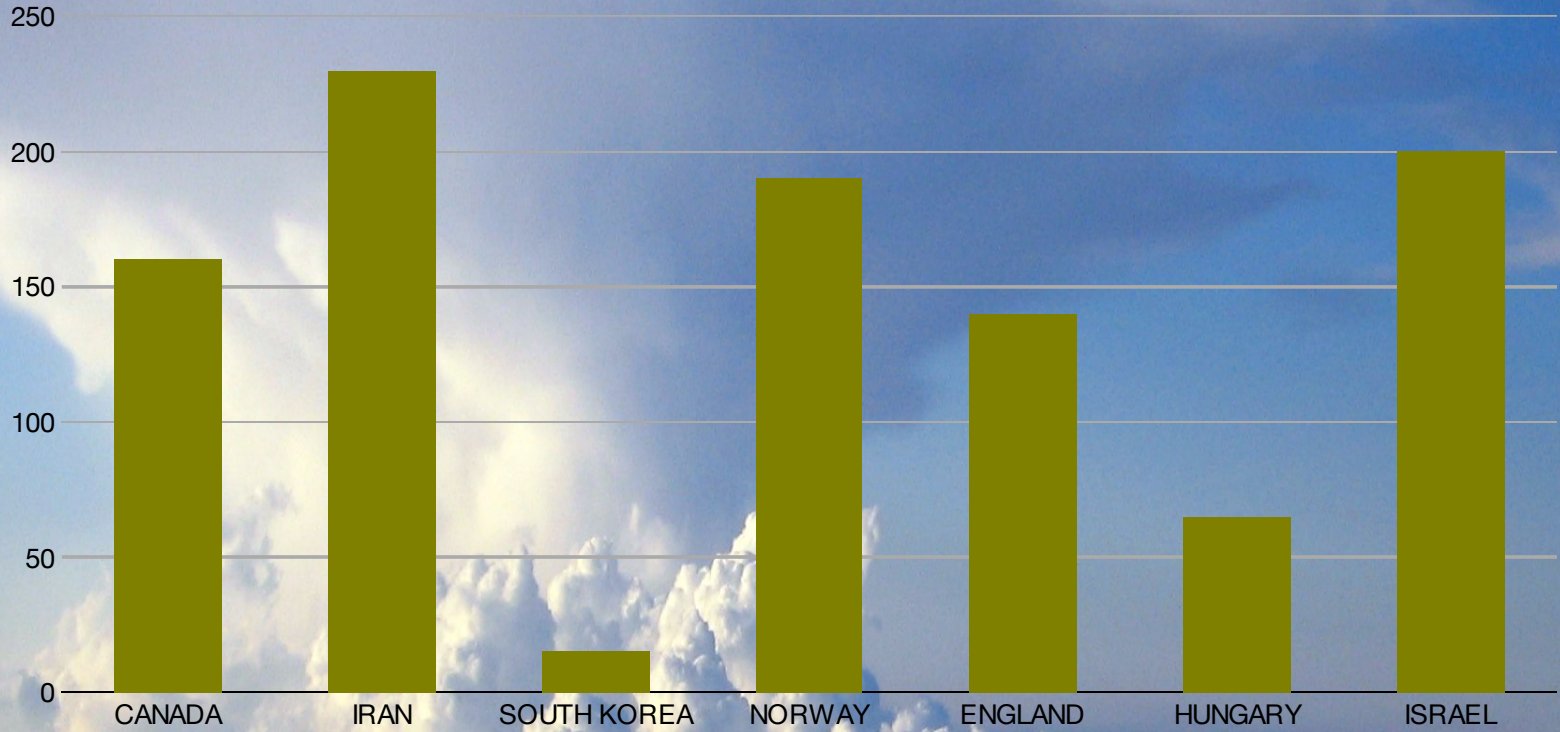
### Root Canal Therapy (€)



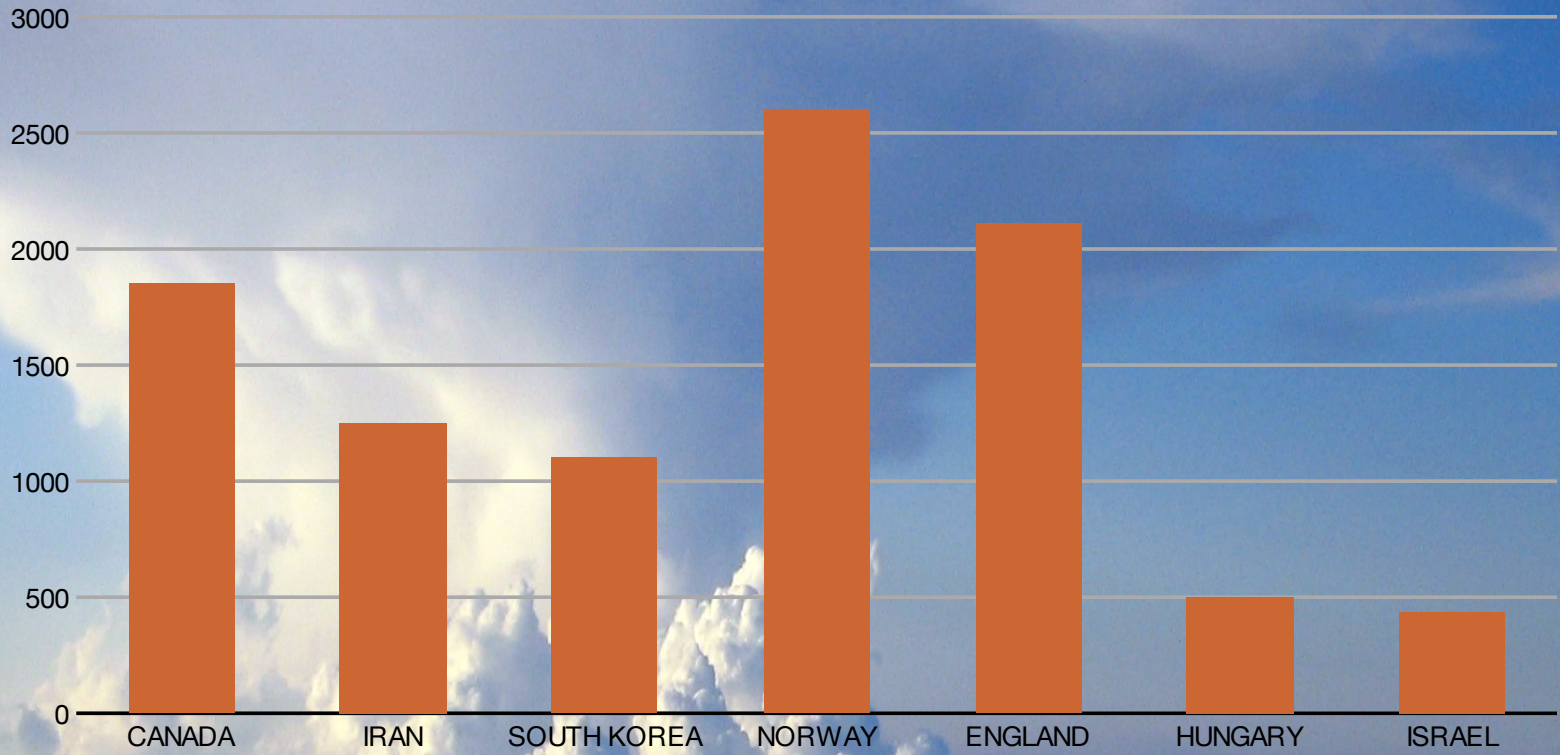
### Simple Extraction (€)



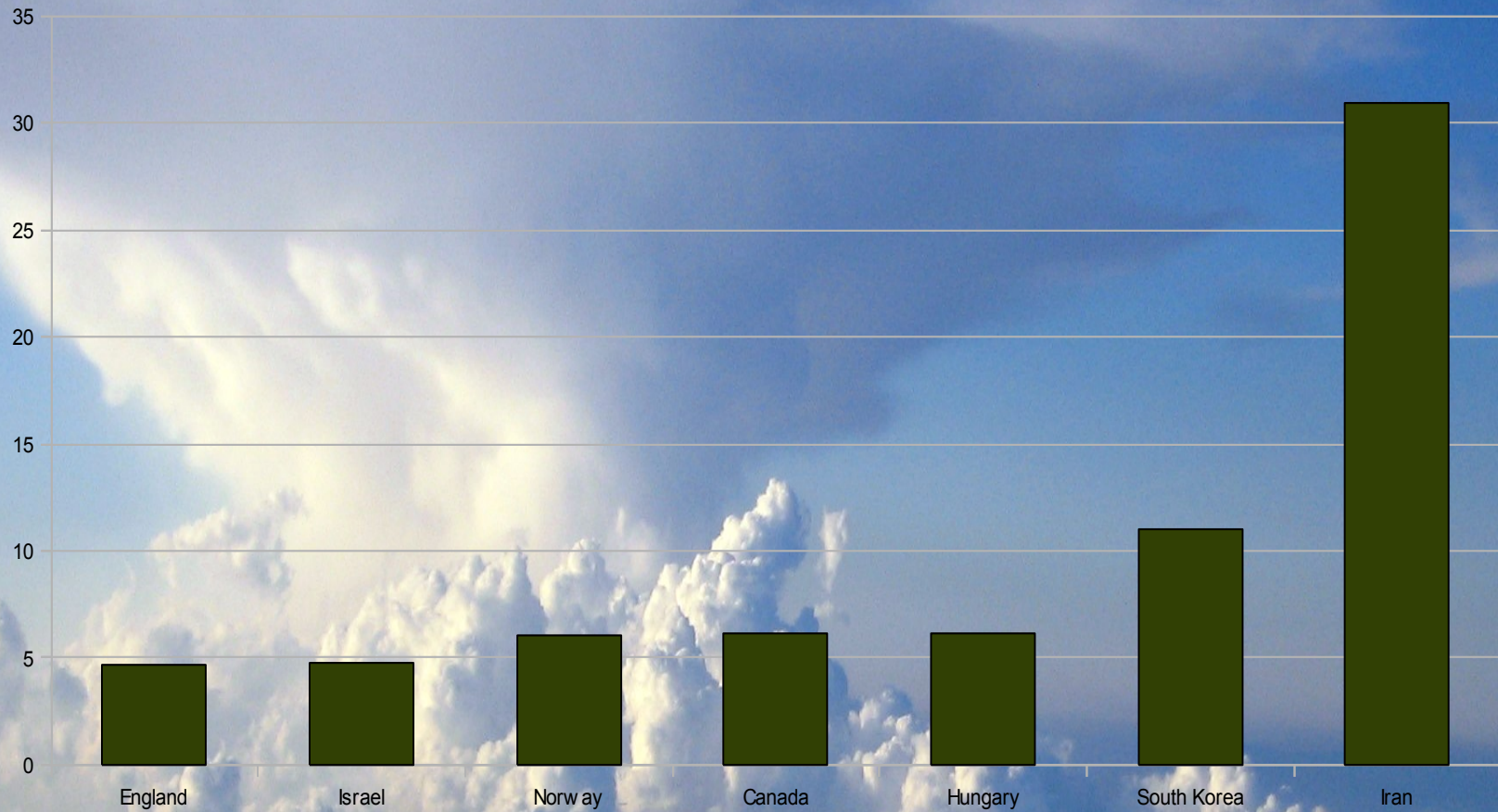
### Surgical Wisdom Tooth Ex. (€)



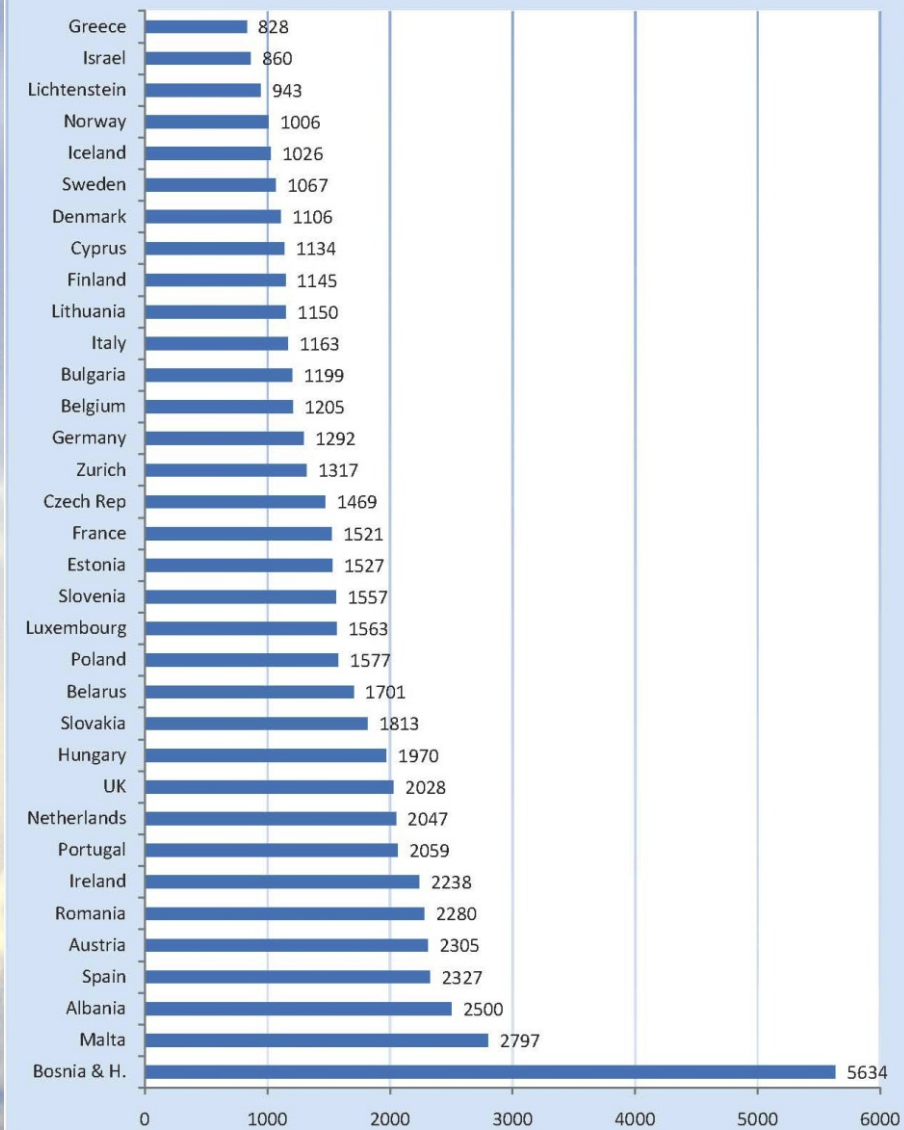
### Single Implant (€)



# • Price of 1 denture compared to average income (%)

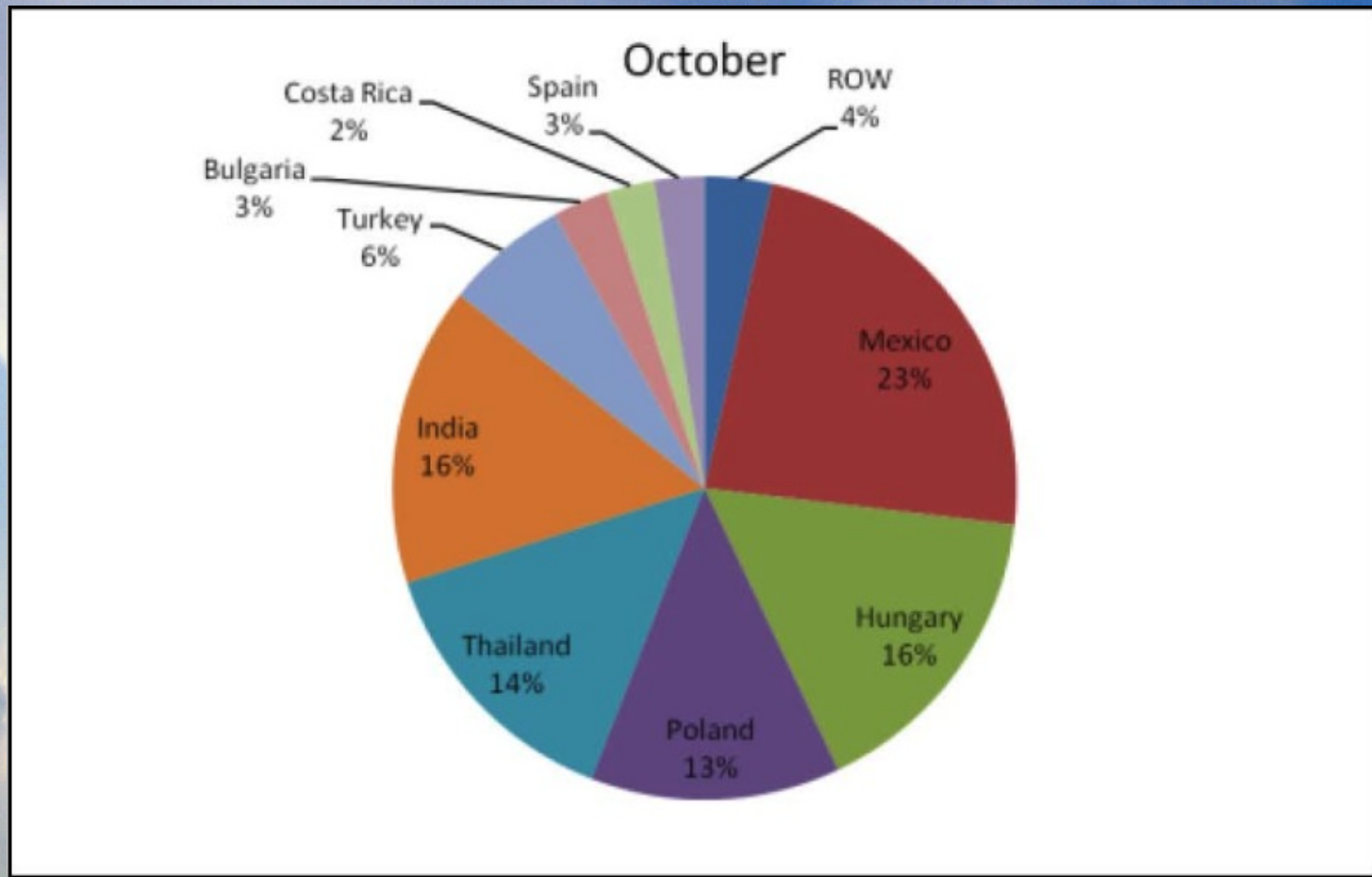


### Population per active dentist



# Popular Dental Tourism Countries

Period: 01/Oct /2007 – 01/Nov/2007





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