CURRENT STATUS OF HEALTH in TURKEY

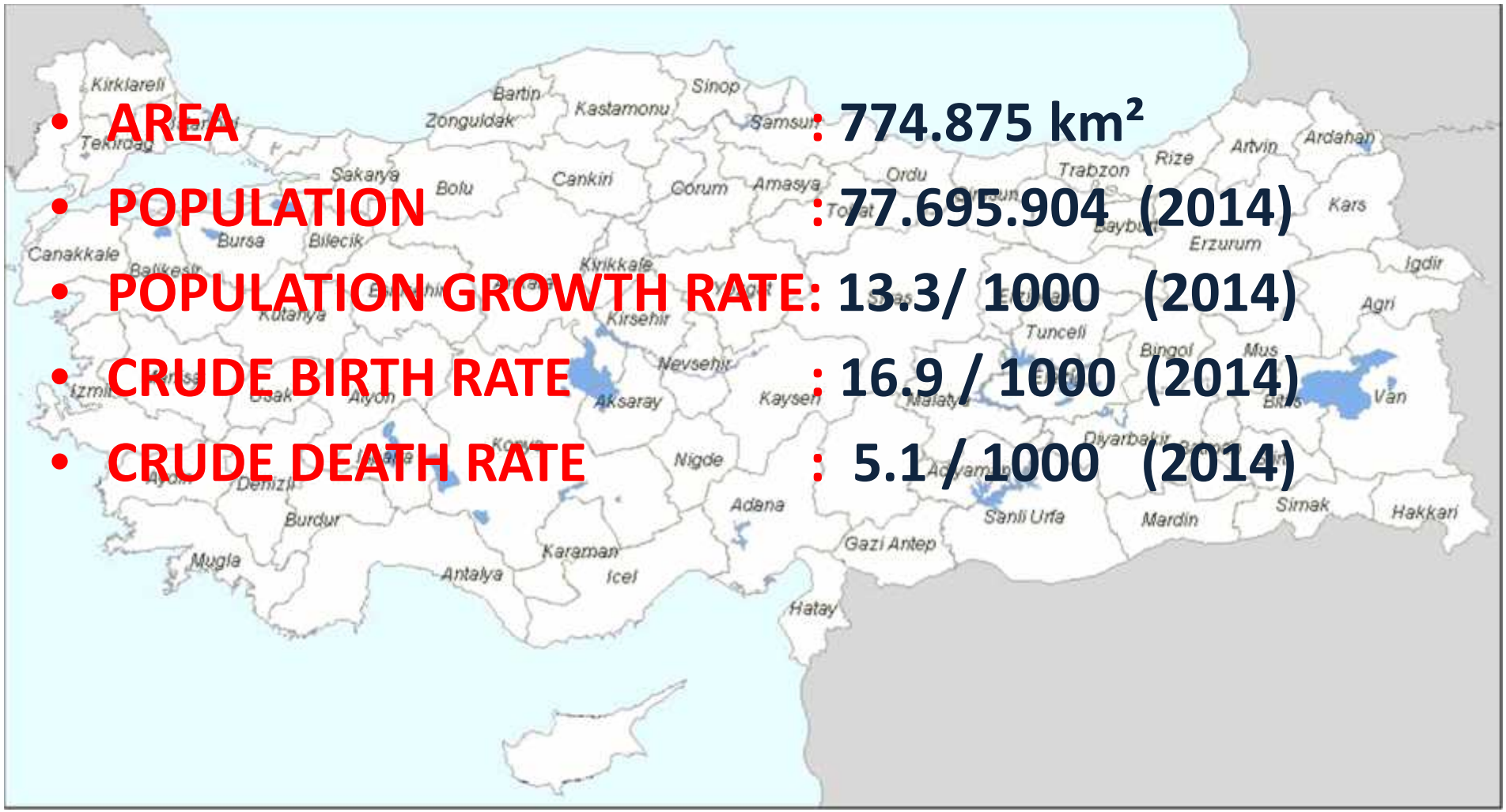
Enver Hasanoglu, MD,

Professor of Pediatrics

Gazi University Medical School, Ankara, Turkey

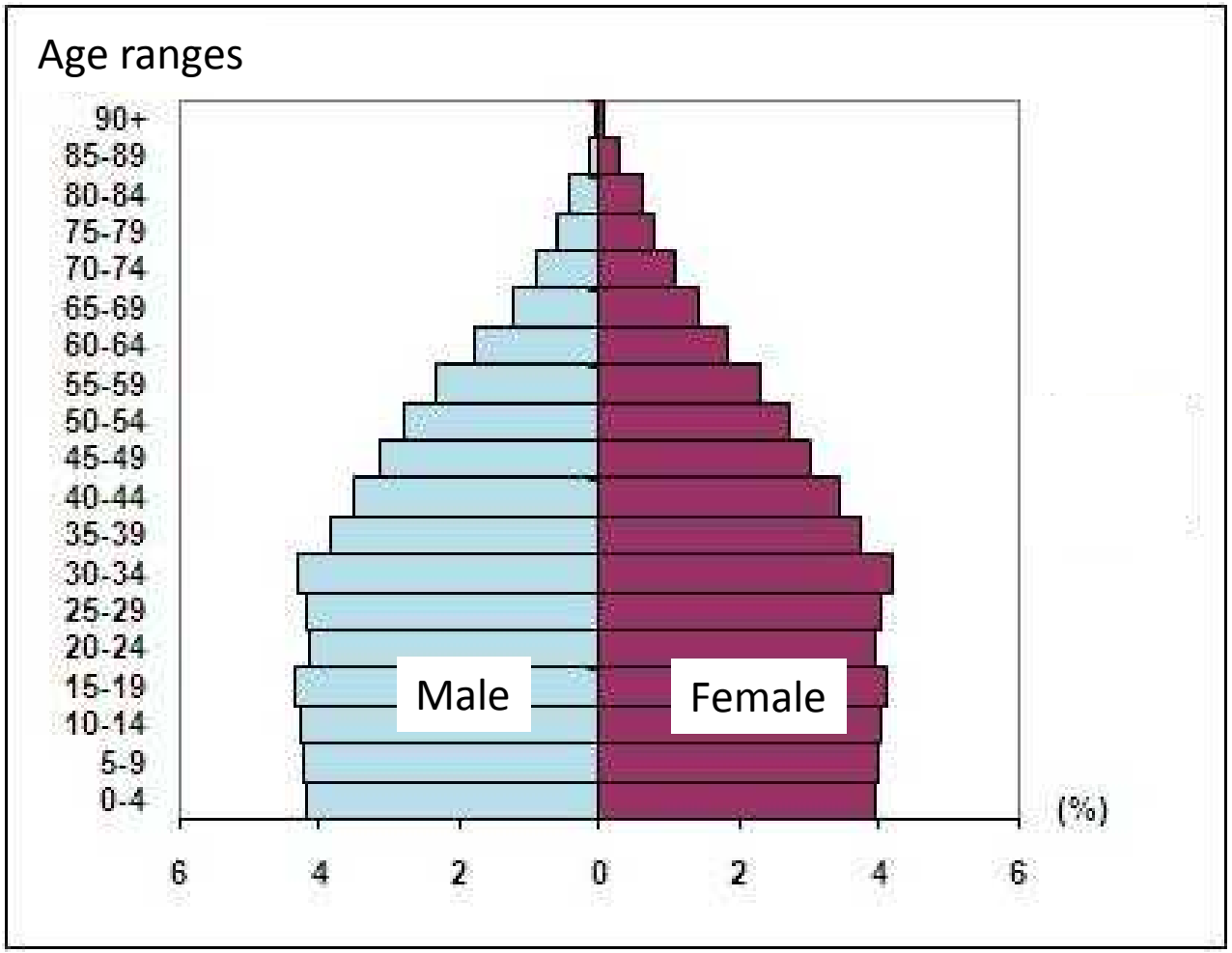
General Secretary
of TNPS, UMEMPS and UNIPSTR

TURKEY



- **AREA : 774.875 km²**
- **POPULATION : 77.695.904 (2014)**
- **POPULATION GROWTH RATE: 13.3/ 1000 (2014)**
- **CRUDE BIRTH RATE : 16.9 / 1000 (2014)**
- **CRUDE DEATH RATE : 5.1 / 1000 (2014)**

Turkish Population Pyramid

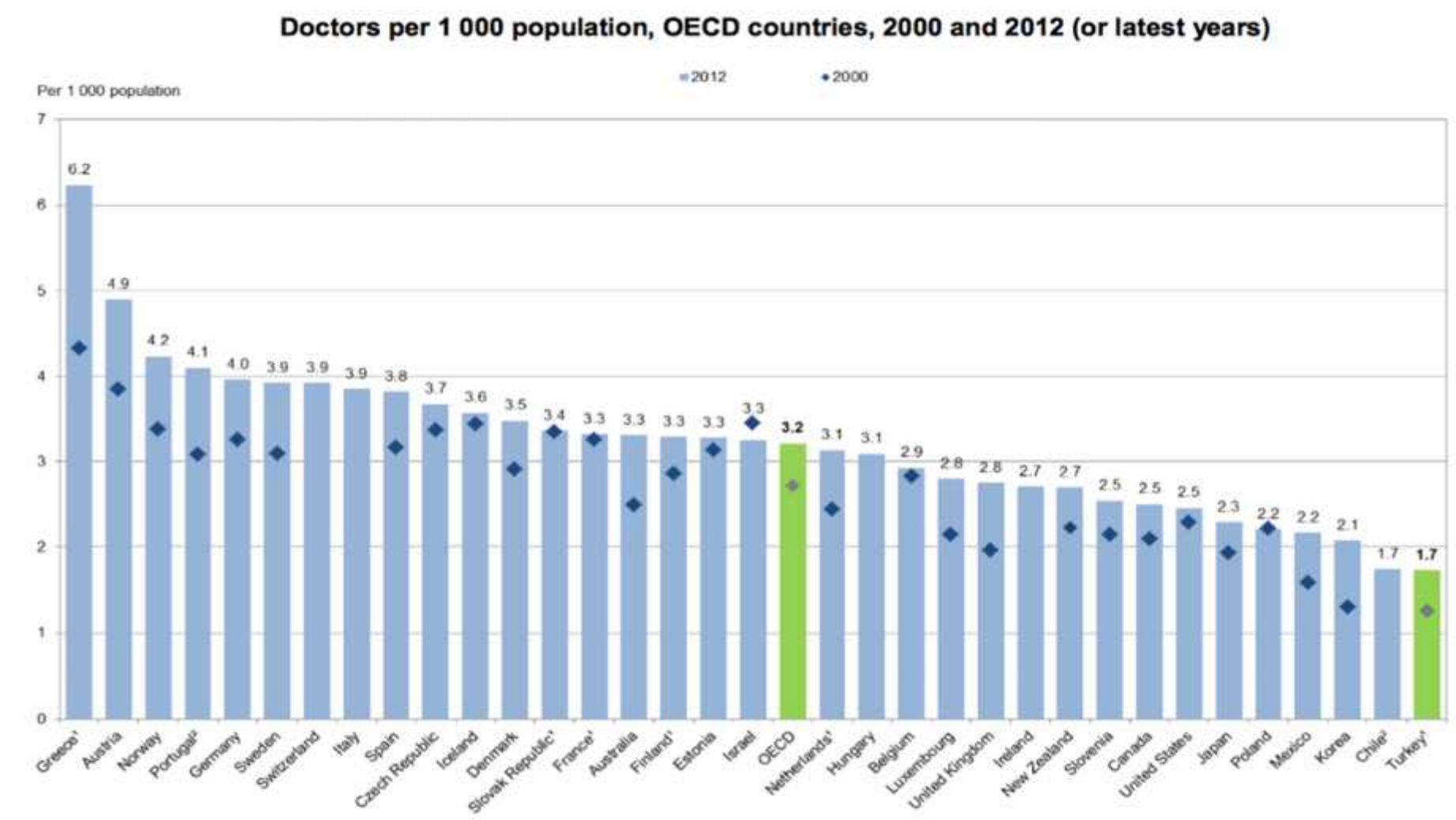


Number of Healthcare Institutions in Turkey

Years	Total number of medical institutions	Total number of inpatient and outpatient insititutions	Number of outpatient institutions	Total number of hospital beds	Number of hospital beds per 1000 population
1967	664	664	-	59 173	1.81
1980	827	827	-	99 117	2.23
1990	857	857	-	120 738	2.19
2000	10 747	1 183	9 564	134 950	2.10
2010	26 993	1 439	25 554	200 239	2.74
2011	27 997	1 453	26 544	194 504	2.63
2012	29 960	1 483	28 477	200 072	2.65
2013	30 116	1 517	28 599	202 031	2,64

Turkish Statistical Institute

Physicians per 1000 population
World vs. Turkey



Physicians per 1000 population
G20 Economies

USA	2.45	per 1000 people	2011
China	1.46	per 1000 people	2010
Japan	2.30	per 1000 people	2010
Germany	3.81	per 1000 people	2011
France	3.38	per 1000 people	2011
Brazil	1.89	per 1000 people	2013
UK	2.79	per 1000 people	2012
Italy	4.09	per 1000 people	2011
Russia	4.31	per 1000 people	2006
India	0.70	per 1000 people	2012
Canada	2.07	per 1000 people	2010
Australia	3.27	per 1000 people	2011
Spain			2012
Mexico			2011
South Korea			2012
Indonesia			2012
Turkey	1.71	per 1000 people	2011
Saudi Arabia	0.77	per 1000 people	2009
Argentina	3.15	per 1000 people	2004
South Africa	0.78	per 1000 people	2013

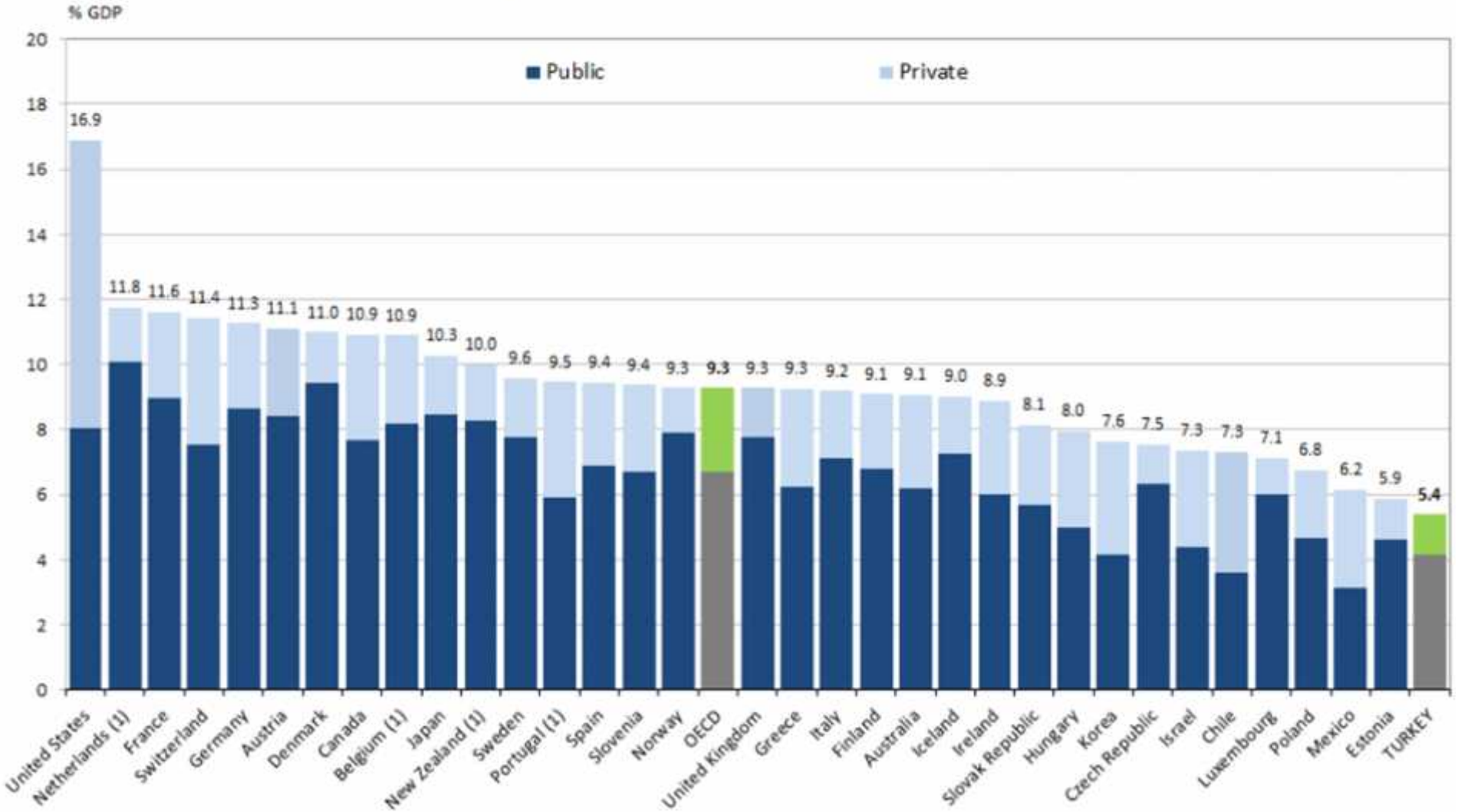
15th
in G20 Economies

Nurses per 1000 population
G20 Economies

USA	9.81	per 1000 people	2005
China	1.51	per 1000 people	2010
Japan	11.49	per 1000 people	2012
Germany	11.49	per 1000 people	2011
France	9.30	per 1000 people	2011
Brazil	7.60	per 1000 people	2013
UK	8.83	per 1000 people	2012
Russia	8.52	per 1000 people	2006
India	1.71	per 1000 people	2011
Canada	9.29	per 1000 people	2011
Australia	10.65	per 1000 people	2011
Spain	5.08	per 1000 people	2012
Mexico			2011
South Korea			2012
Indonesia			2012
Turkey	2.40	per 1000 people	2011
Saudi Arabia	2.34	per 1000 people	2009
Argentina	0.48	per 1000 people	2004

15th
in G20 Economies

Health expenditure, public and private, as a share of GDP, OECD countries



Medical Education

Number of the Universities in Turkey is 193

Number of the Medical Schools in Turkey is 98

We are the 5th country respect to number of the medical schools in the world, 1st one among European countries



Number of student per lecturer in faculties of medicine

- **Turkey** : 3.5 student/ lecturer
- **Europe** : 3.3 student/ lecturer
- **USA** : 2.5 student/ lecturer

Number of pediatricians : 7003

Turkish Health System…
With some current examples…

Health for All in Turkey

- The key objectives are;
  - Covering all the citizens by the universal health insurance
  - Gathering the health institutions under one umbrella
  - Introduction of the family medicine implementation
  - Transformation of the hospitals in to autonomous health facilities





Human First Policy in Turkey's Health System

- Today every hospital in our country includes a "Patient Rights" unit.
- We can choose our own doctors in the majority of our hospitals.



THE BIGGEST MEDICAL RESCUE TEAM IN EUROPE

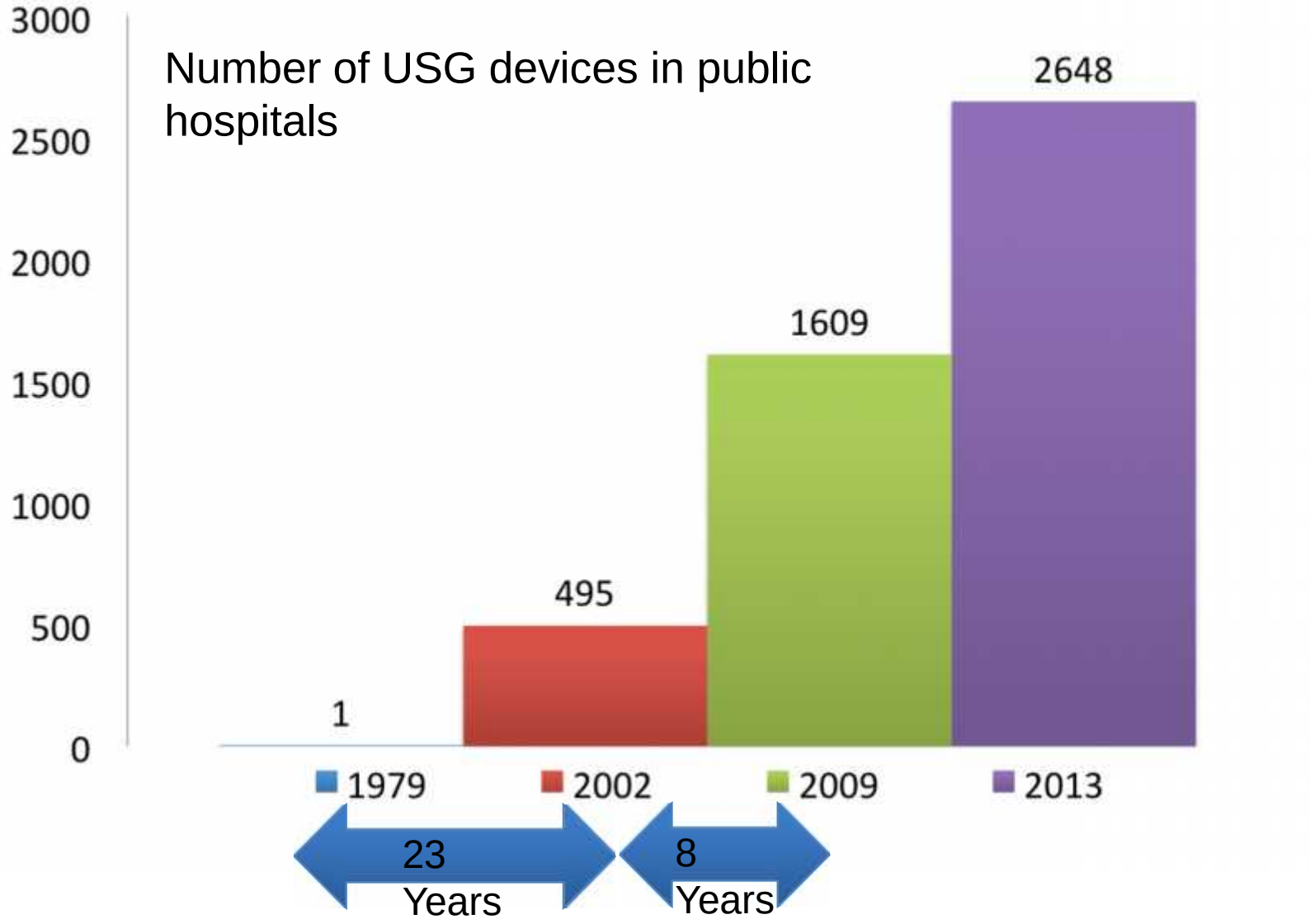
We have established the *"Department of Healthcare Organization in Disasters"* in 2004 with a view to keeping the mortality and the number of the injuries at the possible lowest level by providing medical rescue services in the shortest time by adequately equipped and trained voluntary teams during disasters (primarily earthquakes), as well as providing the safest and fastest patient transportation and the emergency treatment units , services and the required professional administration organization.

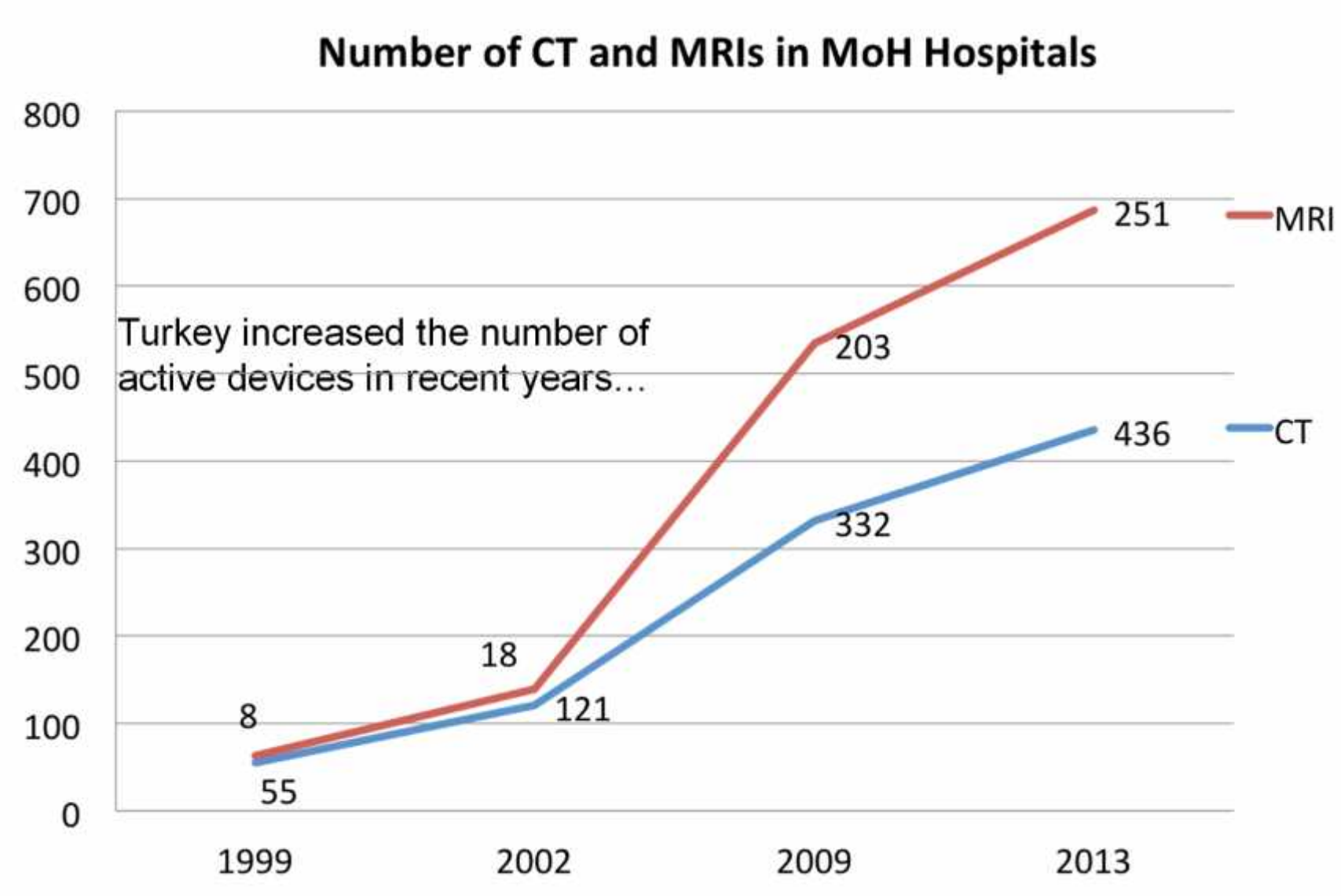




- Turkey has good working Emergency Healthcare services
- We have Command Control Centres in all the provinces all over the country (112 Emergency services; like 911).
- We also have 17 ambulance helicopters and 4 ambulance aircrafts
- %90 of the cases are reached within the first ten minutes.

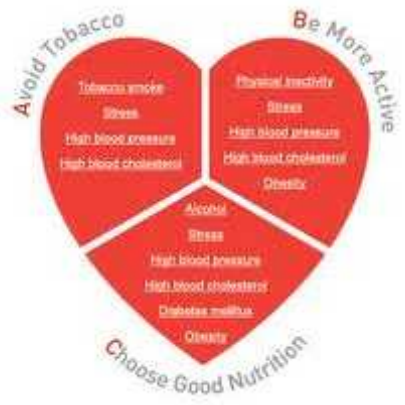
Turkey increased the number of active devices in recent years




Number of CT and MRIs in MoH Hospitals
800
700
600
500
400
300
200
100
0
Turkey increased the number of active devices in recent years…
8
18
203
251
55
121
332
436
MRI
CT
1999
2002
2009
2013

- In line with WHO’s warning regarding the rapid increase in the prevalance of chronic diseases in recent years…
- Turkey’s Social Movement and Creating Awareness for Chronic Disease ..Some examples;

- We have **“Turkish Cardiovascular Diseases Prevention and Control Program”.**
  - Program was iniated with the aim of improving the cooperation between primary and secondary health institutions, providing strengthening of the system on disease prevention, early diagnosis, proper treatment an regular follow-up of the patients as well as improving life quality by reducing mortality and morbidity.



- GARD-The Global Alliance Againts Chronic Respiratory Disease which is established under the leadership of WHO for combat againts chronic respiratory diseases



A Public Health Project : National Tobacco Control Program of Turkey

- Smoking is an important public health problem
- Turkey ranks in the 3rd step in Europe and 7th step in the world in tobacco consumption

A Public Health Project : National Tobacco Control Program of Turkey

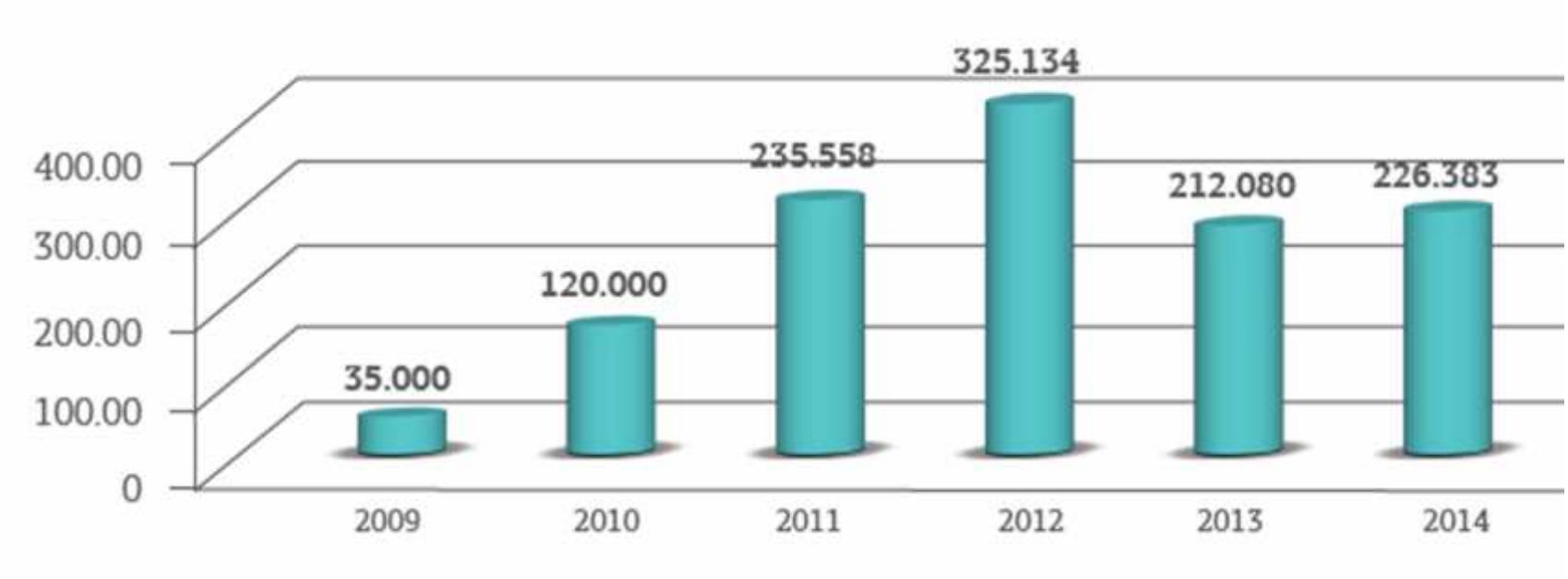
- Our country signed
- ***"The Tobacco Control Framework Agreement"*** prepared by WHO, 2004

- "National Tobacco Control Program", was declared in 2007

- There has been a great support to the measures which implementation started in May 19,2008 and includes the prevention of passive smoking

A Public Health Project : National Tobacco Control Program of Turkey

Hospital applications to quit smoking



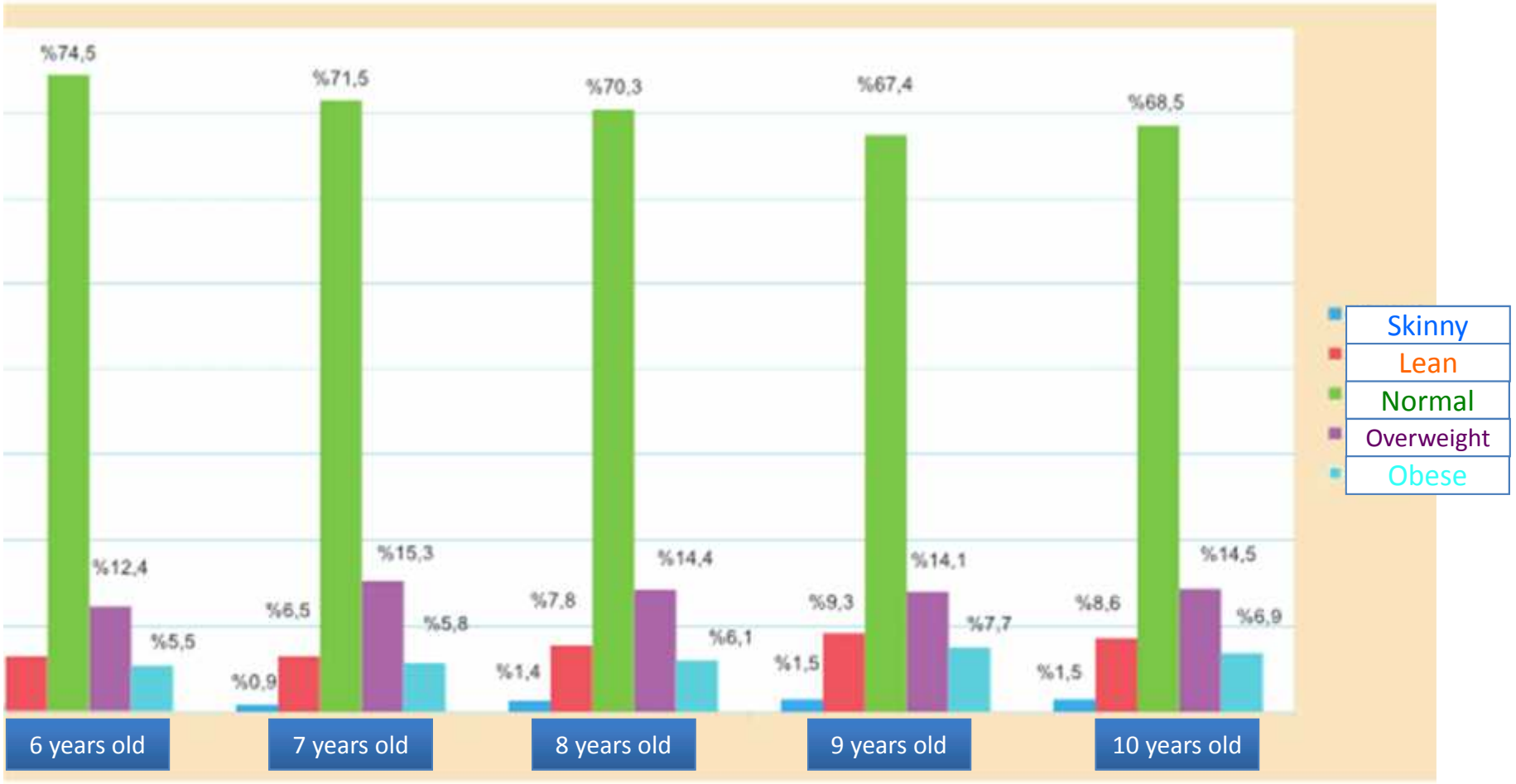
Turkish smokers declined 13.4 percent since 2008

OBESITY



- If the obesity epidemic continues with this rate ,it is expected to become an obstacle in front of the health of the countries in the future.
- Turkey’s Obesity Action Plan was prepared in line with the Europen Charter on Counteracting Obesity.

CHILDHOOD OBESITY



OBESITY PREVENTION PROGRAMME



Raising awareness

- Brochures
- Videos
- Posters

Carbonated drinks and junk foods are forbidden in school canteens



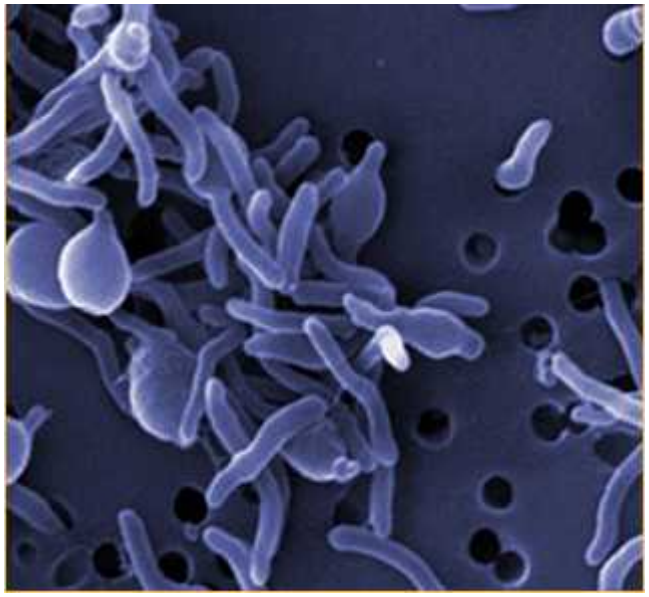
- National Advisory Board on Cancer was established with the aim of policy and strategy development in the planning of Turkey’s cancer control program
- Cancer screening and training centers are common enough now in Turkey



- Breast Cancer screening increased by 9%
  reached 1 700 000 person

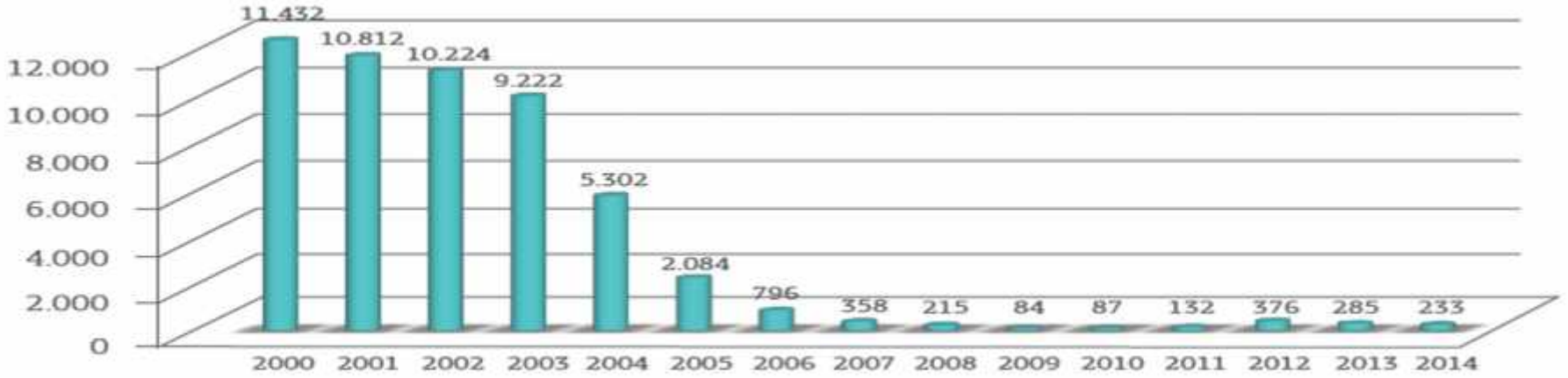
- Cervix Cancer screening increased by 23%
  reached 2 500 000 person

Effective Combat againts Communicable Diseases in Turkey

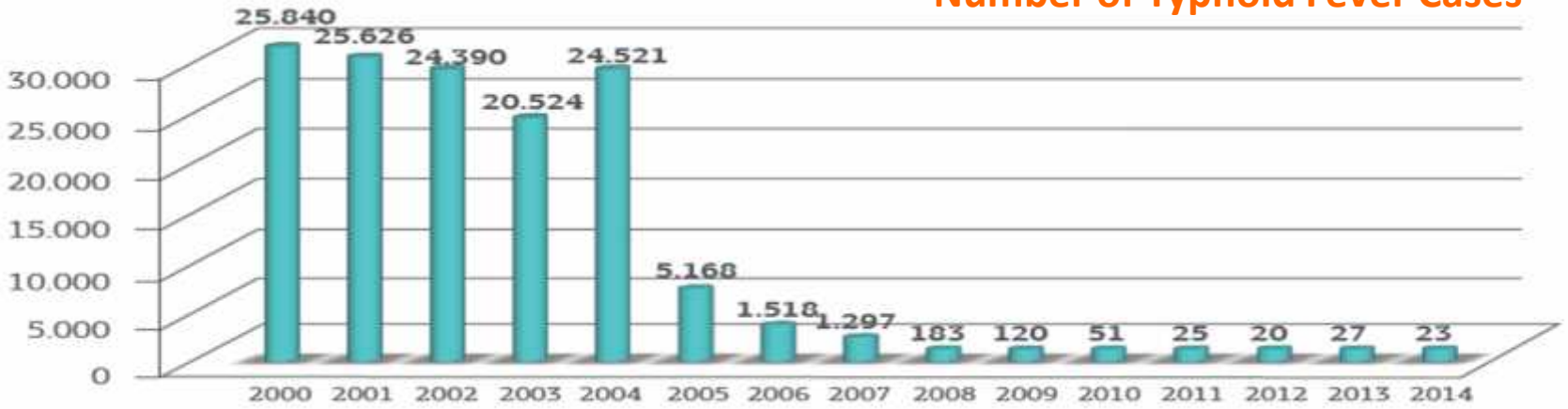


- **A great achievement has been obtained in the field of Malaria control**
- **The number of malaria cases was over 10.000 in 2002. But now, number of malaria cases was dropped to 233 in 2014**
- **The number of typhoid-fever cases was 24390 in 2002 in the country, decreased to 23 in 2014.**

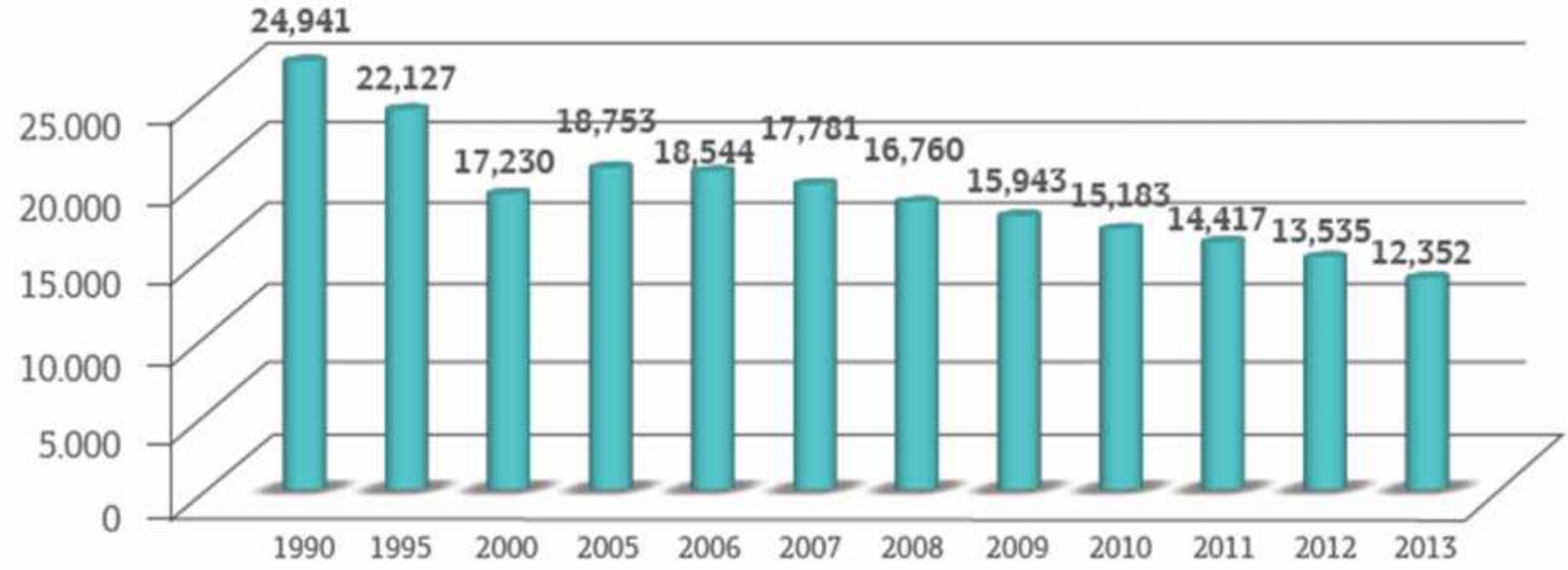
Number of Malaria Cases



Number of Typhoid Fever Cases



New Tuberculosis Cases



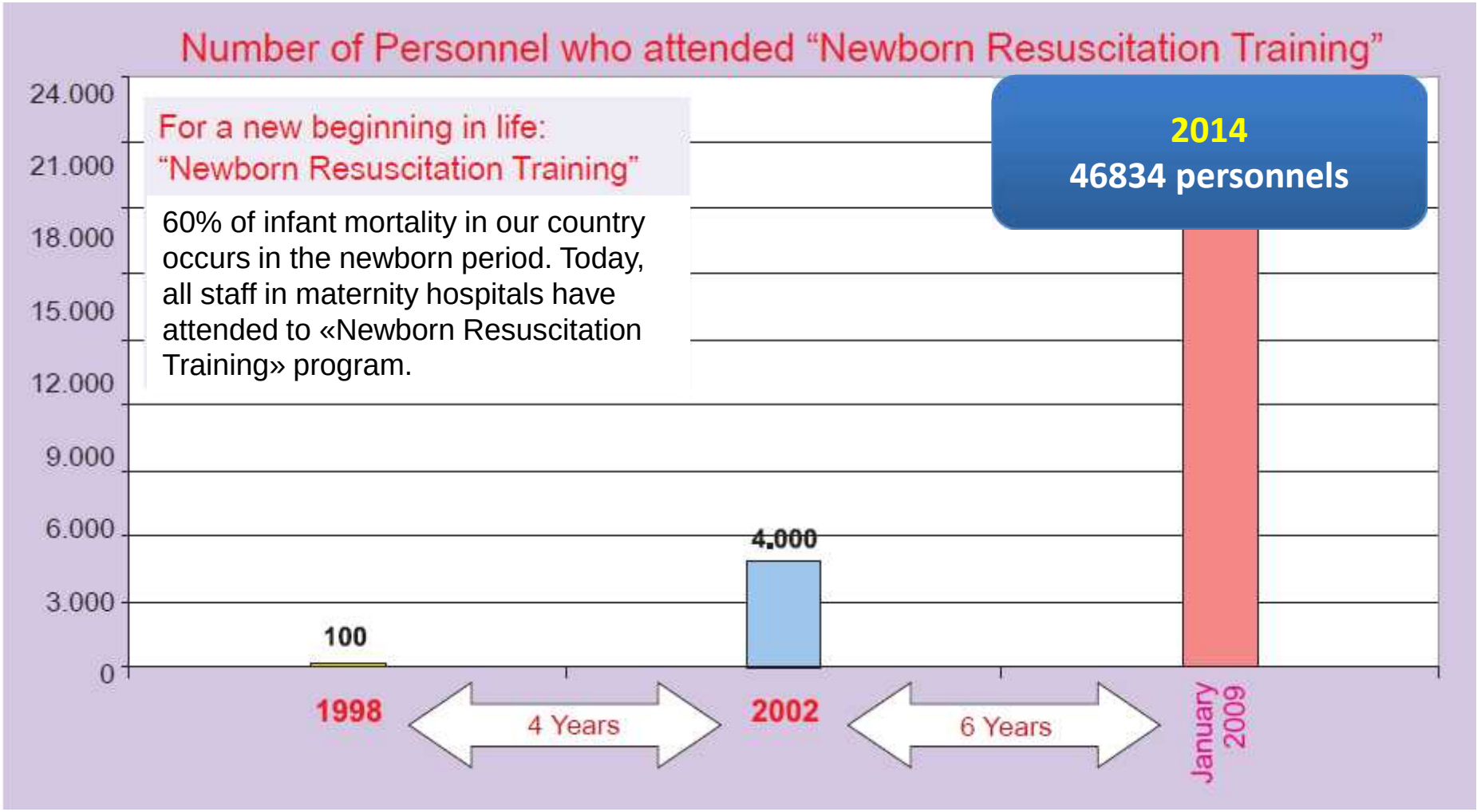
Pediatric Care in Turkey



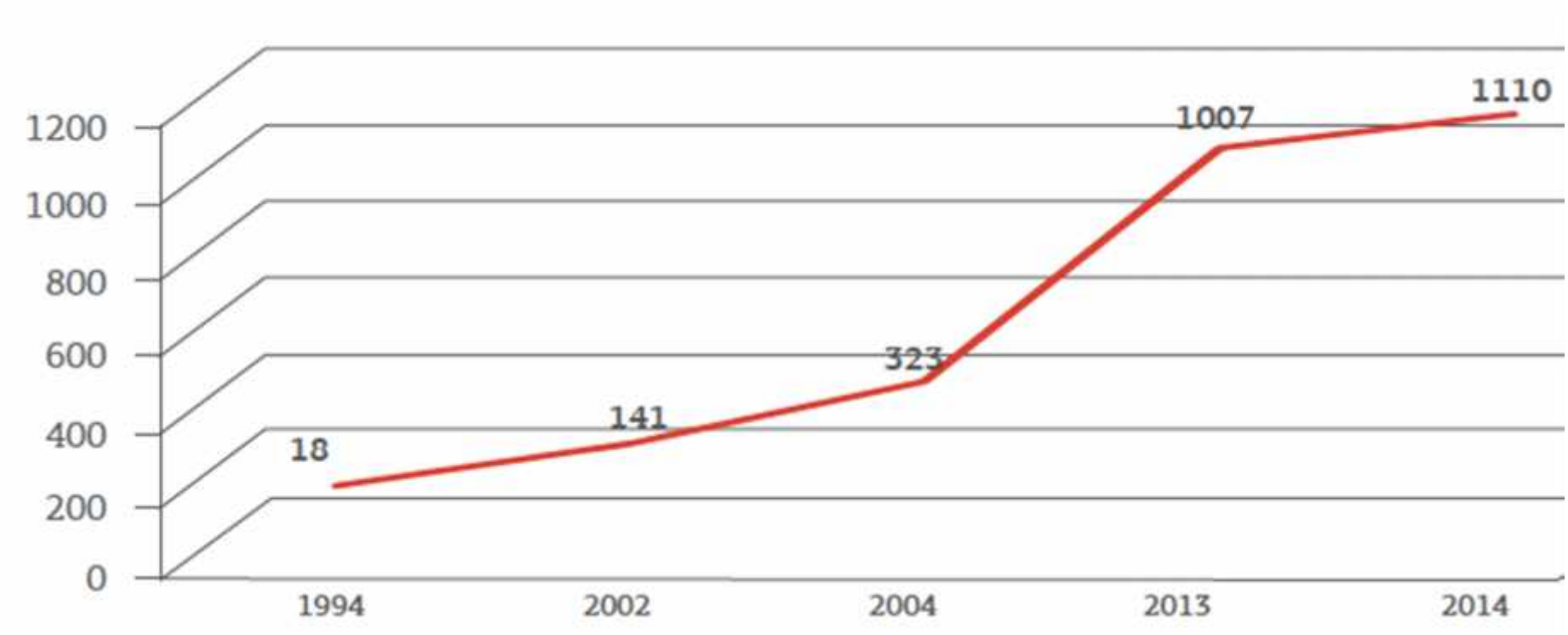


Newborn Resuscitation Training Program

- **Today trained staff are available in all Maternity Hospitals of Turkey**

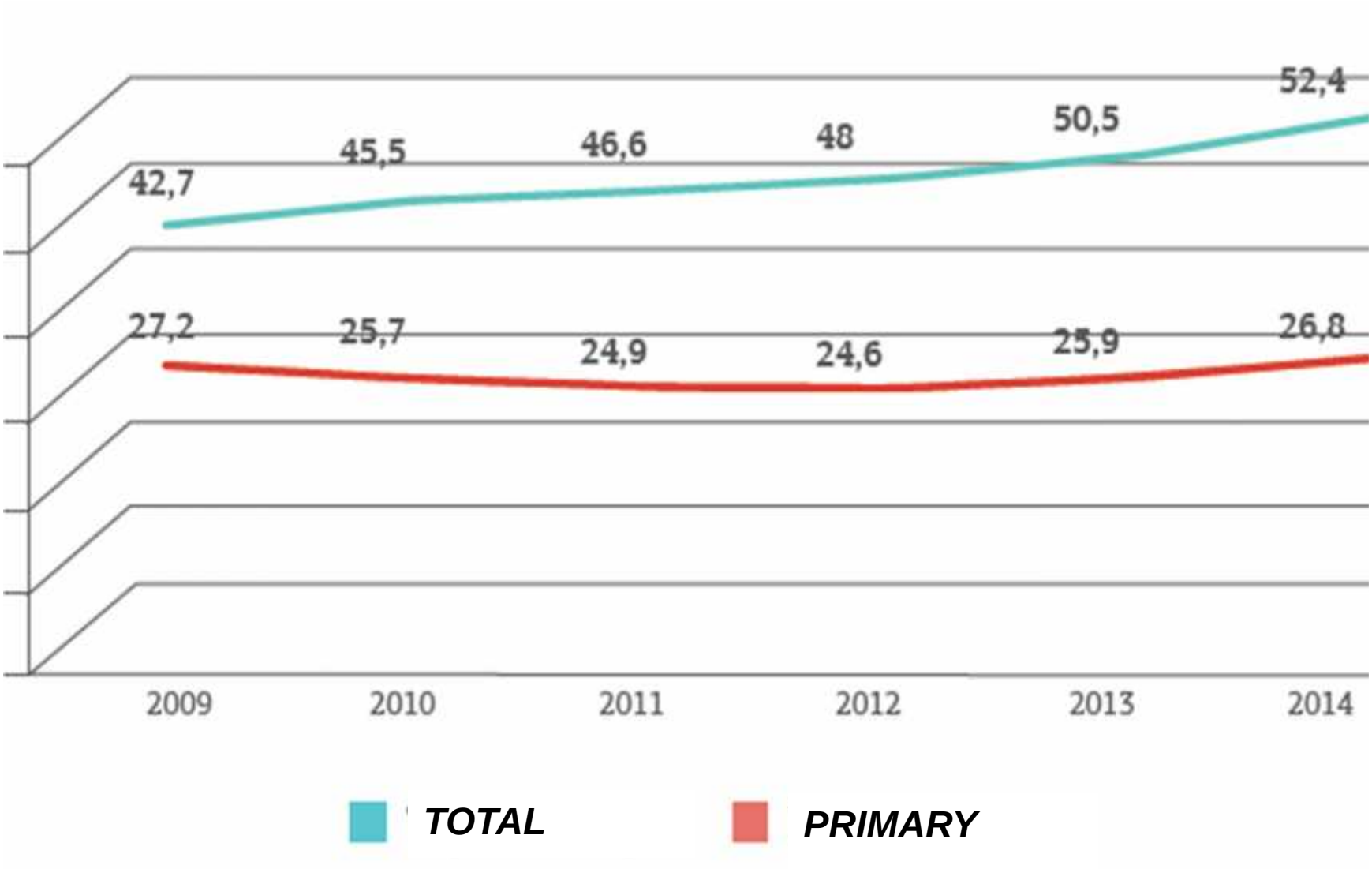


Turkey: Baby Friendly Country…



"Promotion of Breastfeeding and Baby Friendly Hospitals Program" of Turkey….As a result of this program "the percentage of babies between 0-6 months fed only with breastmilk" increased to %40.4 .

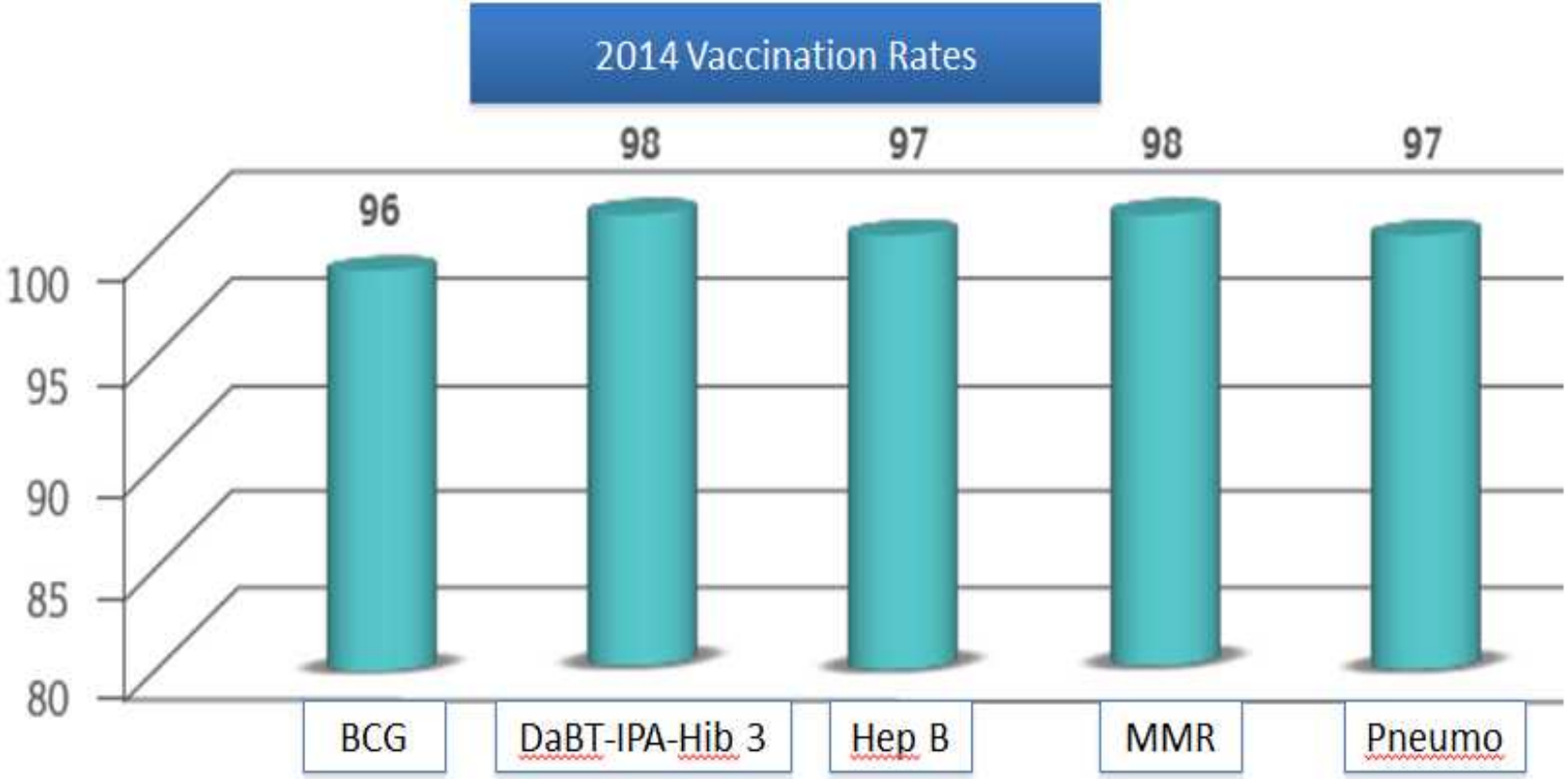
C-section rate in Turkey



National Vaccination Schedule

	Birth	1st month	2nd month	3th month	6th month	12. month	18. month	24. month	6 years old	14 years old
Hepatitis B	I	II			III					
BCG			I							
DaPT-IPA-Hib			I	II	III		R			
Conjugate Pneumococ			I	II	III	R				
MMR						I			R	
DaPT-IPA									R	
Oral Polio					I		II			
Td										R
Varicella						I				
Hepatitis A							I	II		

Vaccination rates of children in Turkey



* National vaccination program started in 2008

Syrian Refugee Children

- Malnutrition
- Psychological stress
- Trauma and physical injury
- Infectious diseases

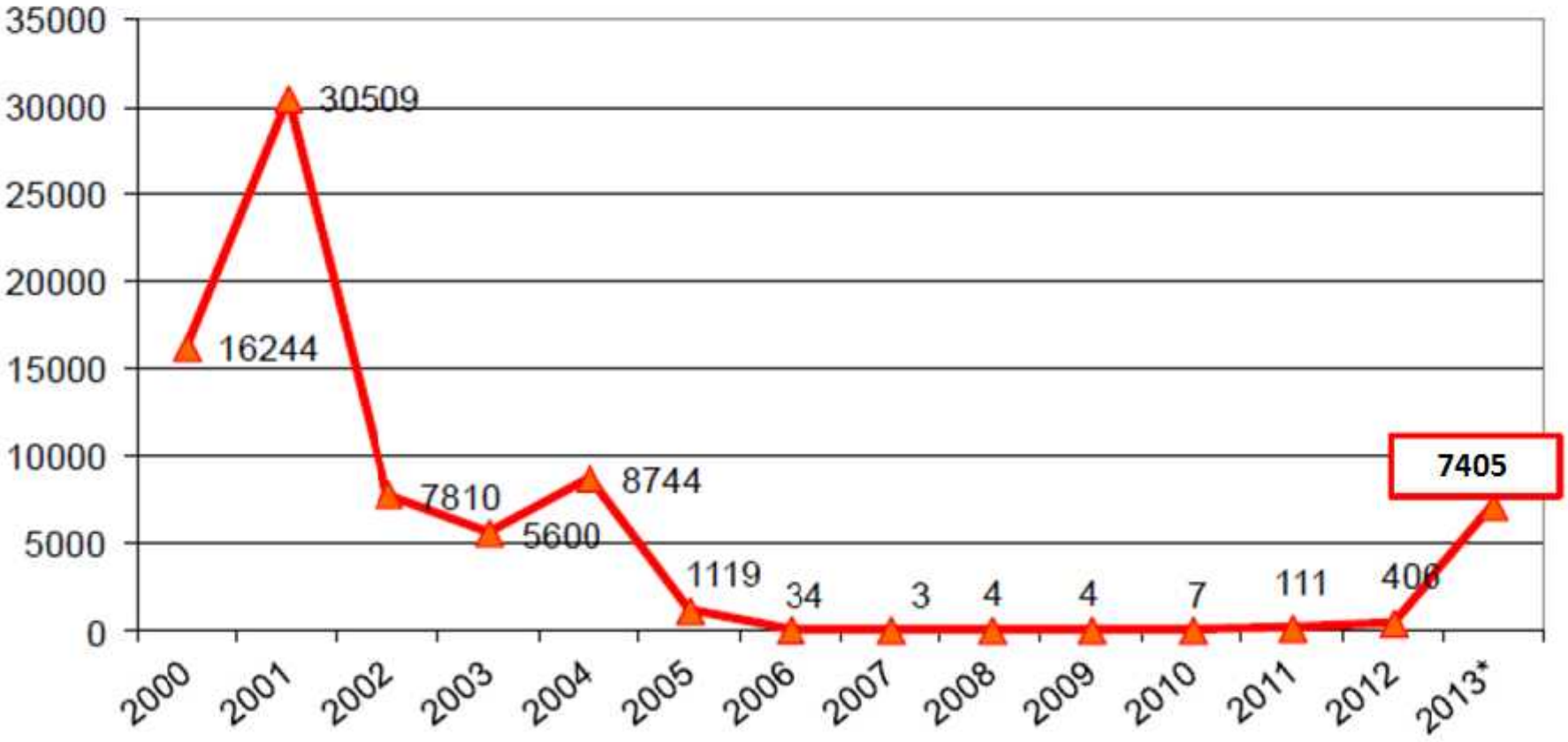
Measles Outbreak

We are almost eradicating Measles however;

- **New measles cases have been diagnosed in Turkey since 2011 due to spread from Eastern Europe and Syrian refugees living in Turkey**

- Turkish Ministry of Health has launched a campaign to vaccinate refugees living in camps

Measles Cases, 2002-2013, Turkey



- *Health Statistics Annual 2013, Ministry of Heatlh, Turkish Republic*

Measles

	2002	2008	2009	2010	2011	2012	2013
Native	7180	0	0	0	0	318	6731
Refugee	0	4	4	7	111	31	674
Total	7180	4	4	7	111	349	7405

- *Health Statistics Annual 2013, Ministry of Heatlh, Turkish Republic*

551 cases of measles were seen in Turkey in 2014

171 cases of measles sere seen in Turkey in 2015

Newborn Screening Program





- Newborn screening program has been extended countrywide in Turkey to ensure newborns' healthy start to life

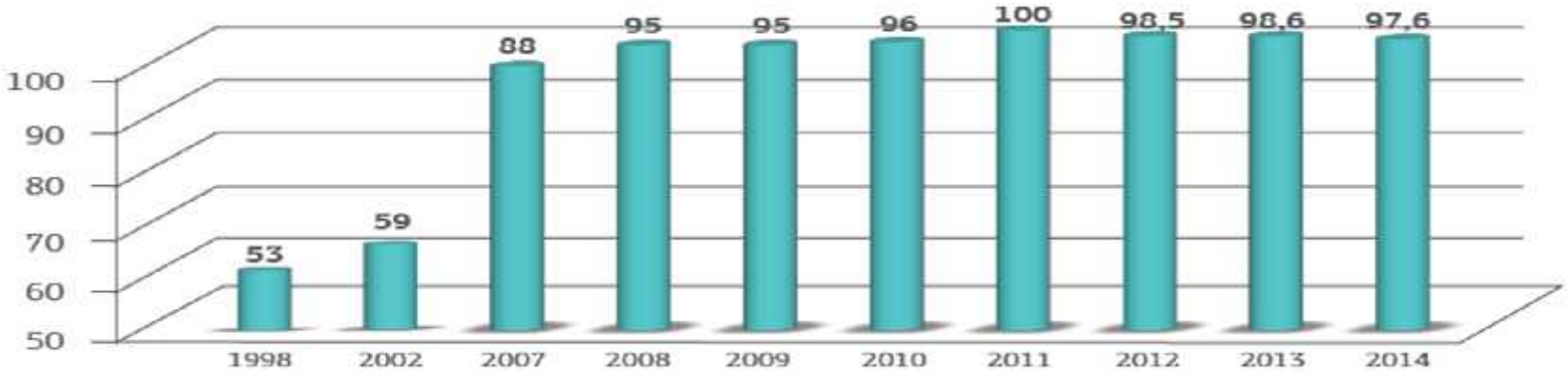
- Now; our babies are widely screened for Phenylketonuria, Congenital Hypothyroidism, Biotinidase Deficiency and Cystic Fibrosis...

- National screening program has covered %95 of the target population

Newborn Screening Program

- In 2013

  The rate of screened newborns for Phenylketonuria, Congenital Hypothyroidism and Biotinidase Deficiency was **98.6 %**

- 

  - 1000 newborns are diagnosed with Congenital Hypothyroidism
  - 200 newborns are diagnosed with Phenylketonuria
  - 200 newborns are diagnosed with Biotinidase Deficiency

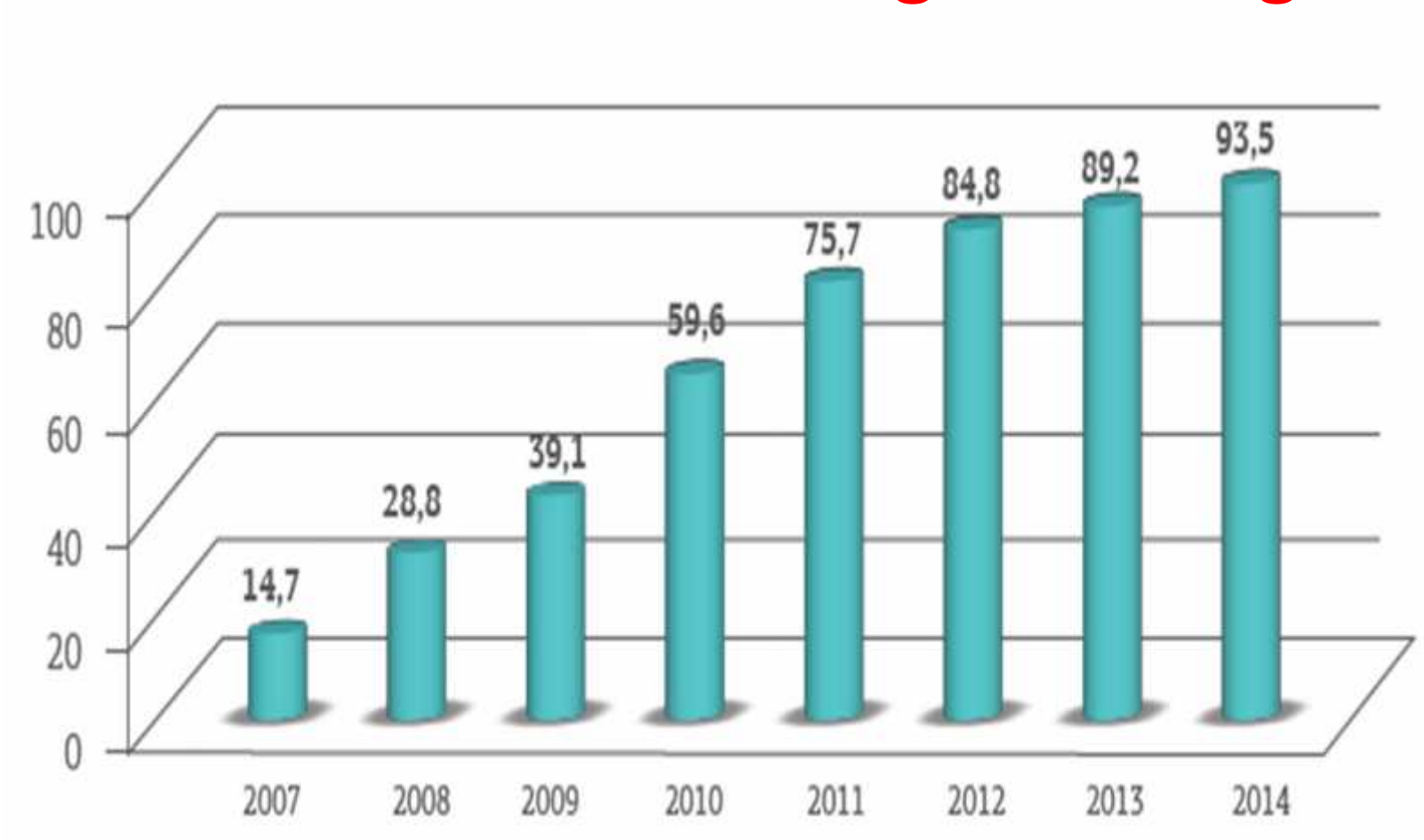
  Screening program for Cystic Fibrosis was started in 2015

Other screening programs

- Moreover, Turkey has been also in a great effort to construct further national screening programs for hearing and developmental hip dislocation in infants

Newborn Hearing Screening Program

The Rate of Hearing Screening



Low cost, high efficiency: Iron-like Turkey

- We have started to provide free of charge iron support to pregnant woman to protect the babies and pregnant women from anemia
- Each year, approximately 1 million pregnant women benefit from this service
- The infants between 4-12 months years old are provided with 1 mg/kg/day iron supplement
- The number of infants provided with iron support between march 2004 and September 2012 is

  9 million 546 thousand…

Vitamin D supplementation

- Vitamin D is being provided free of charge to support bone development of the babies

- All infants are supported by vitamin D (400 U/day) during the first year of life

- The number of infants provided with Vitamin D between May 2005 and september 2012 is

  9 million 333 thousand

“Diabetes in School” programme



- Creating awareness by posters, videos, presentations, television programmes

- Educating parents, teachers and students :

- What is diabetes?
- What are the first symptoms?
- How can we help diabetic children?

The prevention of Diseases Resulting From Iodine Deficiency Project in TURKEY

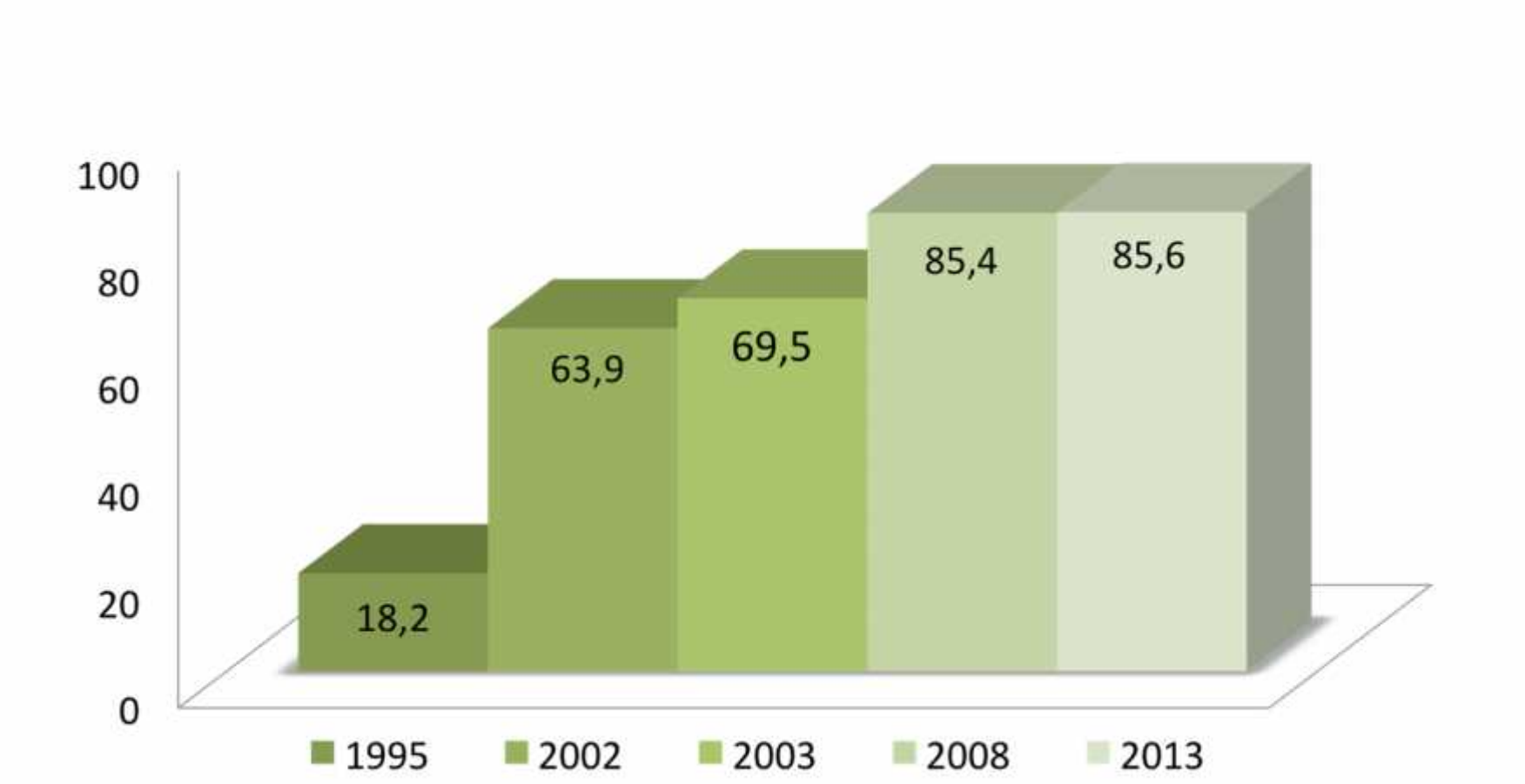
- In 1994 in collaboration with UNICEF, “ The prevention of Diseases Resulting From Iodine Deficiency” Project was initiated

- In 2003, the rate of salt consumption with iodine was around % 70 in Turkey

- It is assumed that this rate would be much better in the future and both the number of newborns with increased TSH levels and goitre frequency in childhood would decrease

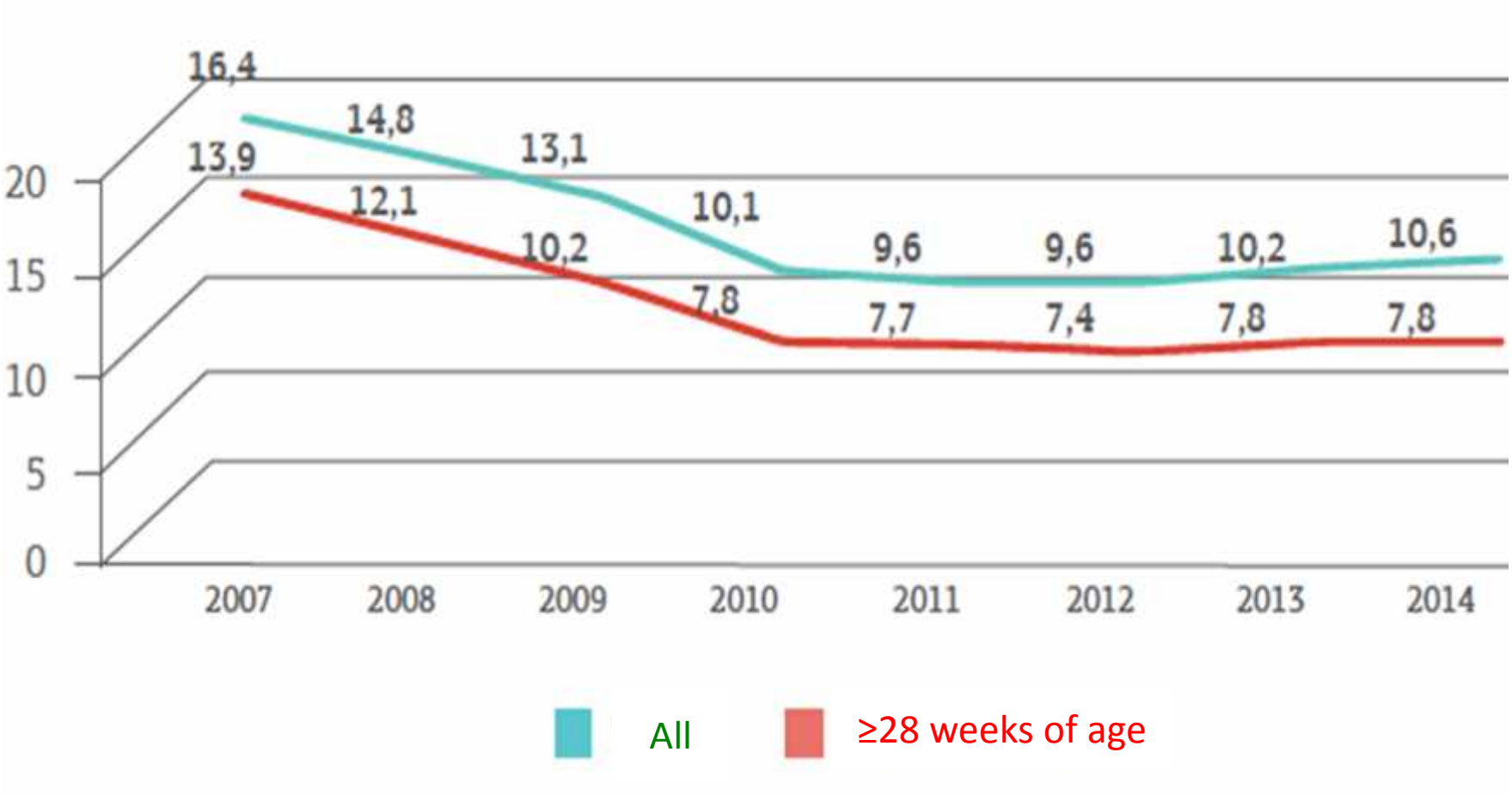


Rate of iodized salt use in Turkey



INFANT MORTALITY IN TURKEY

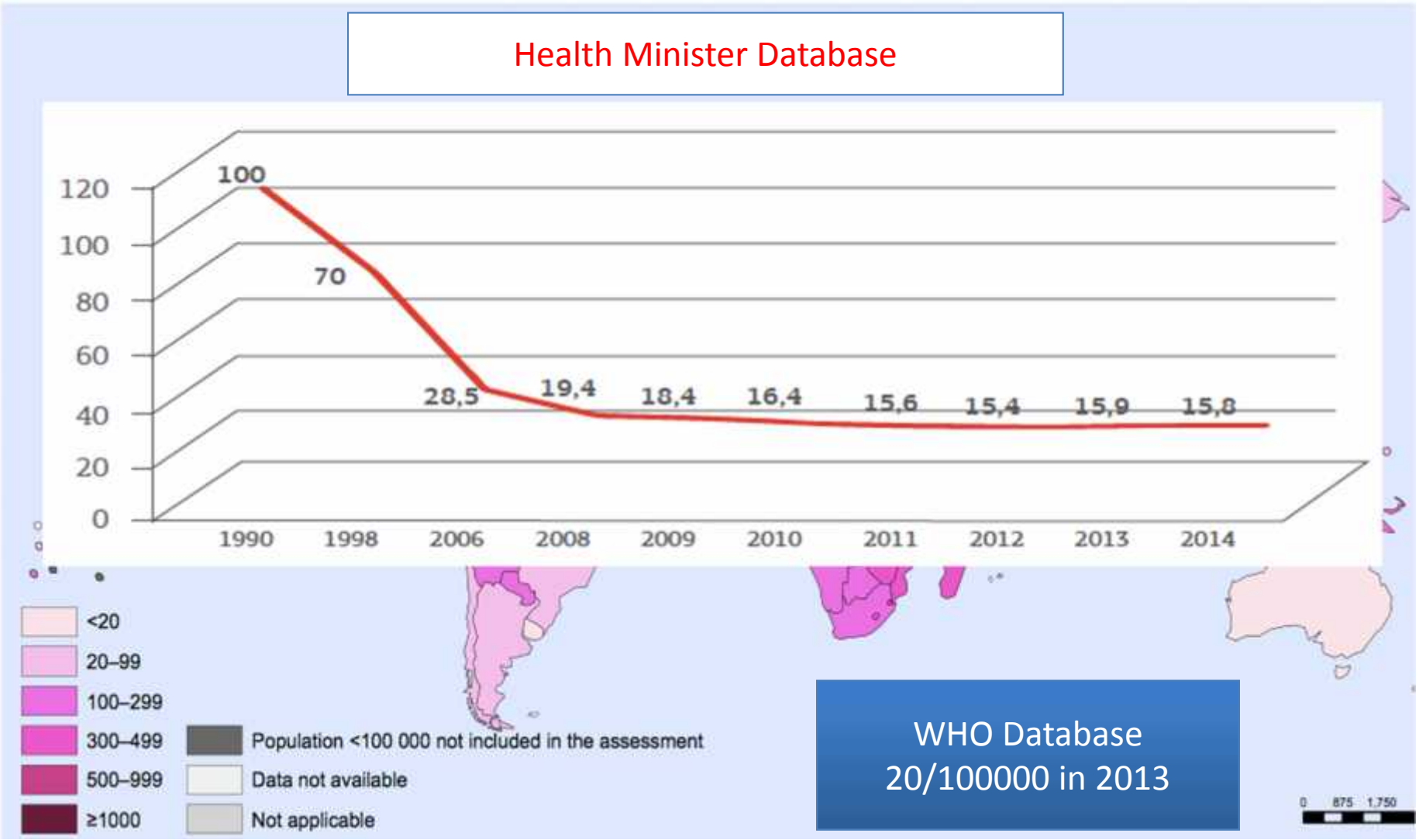
Infants ≥ 28 weeks of age



Ministry of Health Database

Maternal Mortality Rate

Health Minister Database

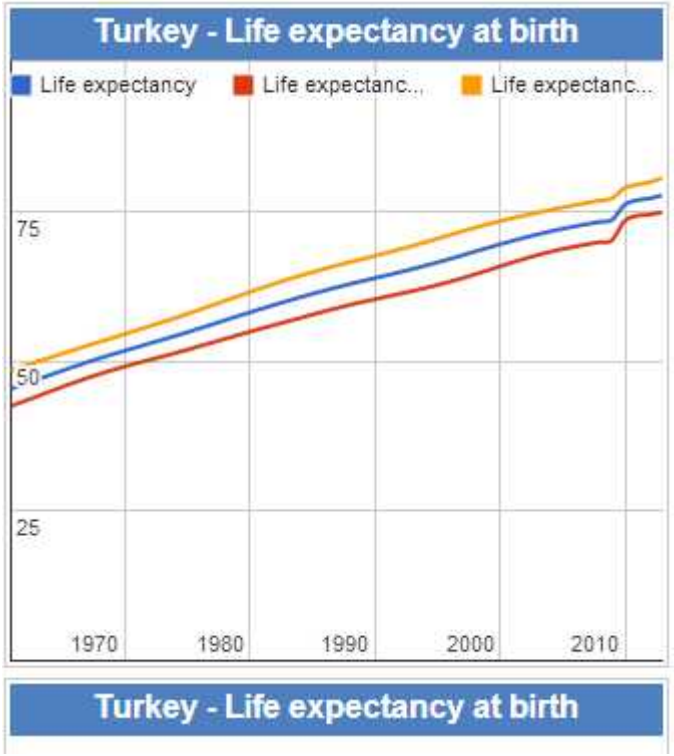


WHO Database
20/100000 in 2013

INCREASE IN LIFE EXPECTANCY AT BIRTH BY YEARS

In 2013 the **life expectancy in TURKEY** increased to 77.0 years
In that year, the **life expectancy for women** was 79.20 years and for men 74.70 years
Turkey's position improved in comparison to 180 countries
Dropping from the 41th (2011) to 37th in 2012

Turkey-Life Expectency at birth			
Date	Life expectancy	Life expectancy Men	Life expectancy Women
2013	77.0	74.7	79.2
2011	74.0	72.0	76.0
2009	73.8	71.5	76.1
2008	73.6	71.4	75.8
2000	69.2	66.9	71.5
1990-95		65.1	69.7
1970-75		53.0	57.3



- **The main goal of us is to make Turkish health system compatible with the vision of 21st century and to provide our people with a high quality health service which they deserve**



- **We strongly believe that we will also accomplish better results in the future….**



