



The role of the Health Monitoring Unit and its contribution to the Diabetes Registry



Maria Athanasiadou
Statistical Officer
Health Monitoring Unit

Health Monitoring Unit- HMU



- Established in May 2004
- Mission: Provide necessary and useful information on public health issues
- Development of a Health Monitoring System:
 - Collecting
 - Storing
 - Analyzing
 - Dissemination and use of data





• Main Activities of the Health Monitoring

- Medical birth Registry
- Registry of Causes of death
- Cancer Registry
- Clinical Classification
- Injuries and Poisoning Registry
- **Diabetes Registry**



Diabetes Data in Cyprus

• Present Situation:

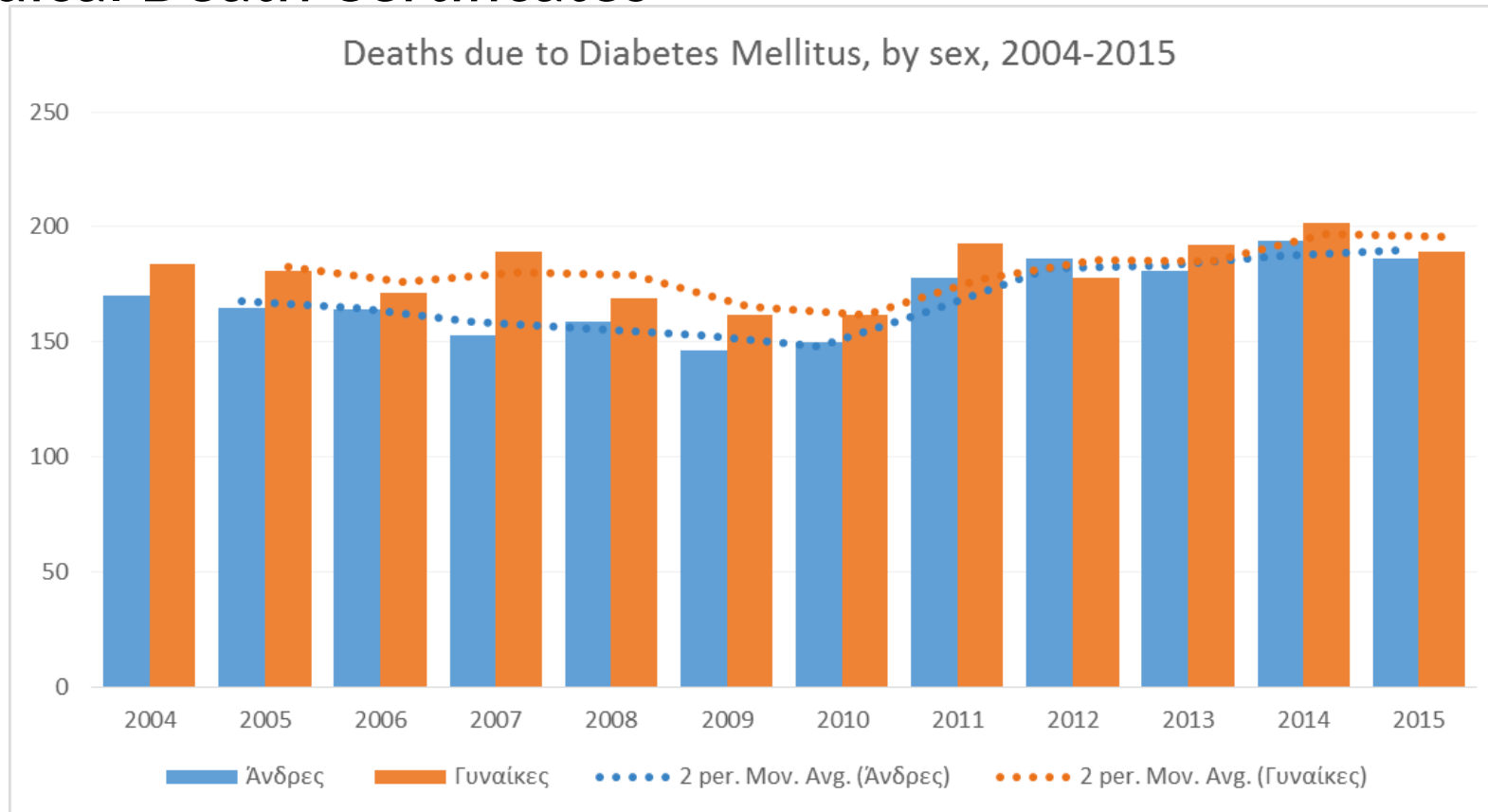
- No national Diabetes Registry
- Ministry of Health has upgraded the diabetic clinics
- Data collection and Electronic Data Base:
 - New Larnaca General Hospital
 - Kofinou Rural Medical Center
 - OPD in the Old Larnaca Hospital
- Mortality due to Diabetes Mellitus
 - Causes of death Registry



Mortality of Diabetes Mellitus



- Causes of Death Registry (2004-2015)
 - Medical Death Certificates



Causes of Death 2015



Causes of death	Males	Females	Total
Diseases of the circulatory system	1058	1025	2083
Neoplasms	791	592	1383
Diseases of the respiratory system	313	237	550
Endocrine, nutritional and metabolic diseases	219	232	451
External causes of morbidity and mortality	184	101	285
Diseases of the nervous system and the sense organs	107	128	235
Diseases of the genitourinary system	114	103	217
Diseases of the digestive system	100	94	194
Symptoms, signs, abnormal findings, ill-defined causes	79	100	179
Mental and behavioral disorders	50	100	150
Infectious and parasitic diseases	72	74	146
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	17	16	33
Diseases of the musculoskeletal system/connective tissue	10	18	28
Diseases of the skin and subcutaneous tissue	8	13	21
Certain conditions originating in the perinatal period	9	9	18
Congenital malformations and chromosomal abnormalities	7	8	15
Total	3138	2850	5988

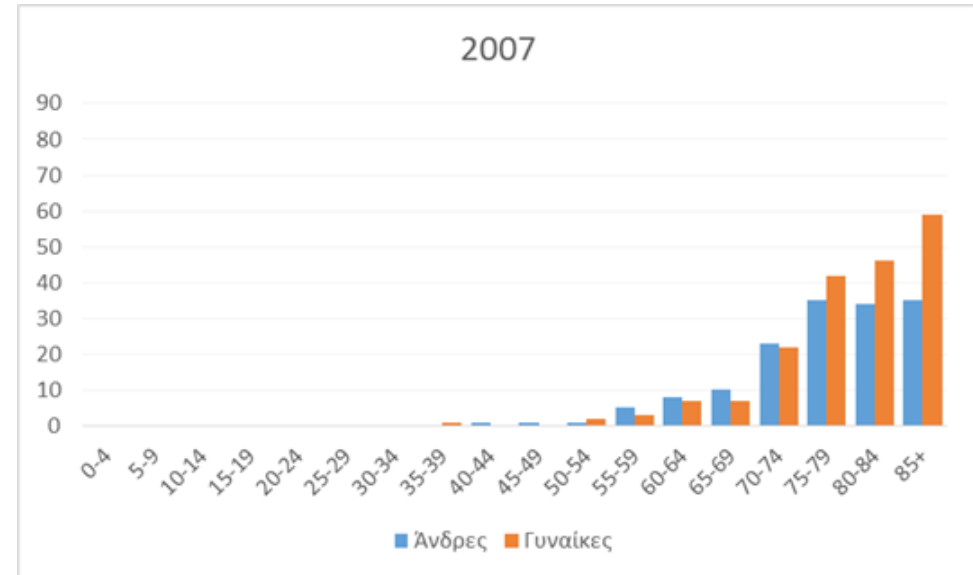
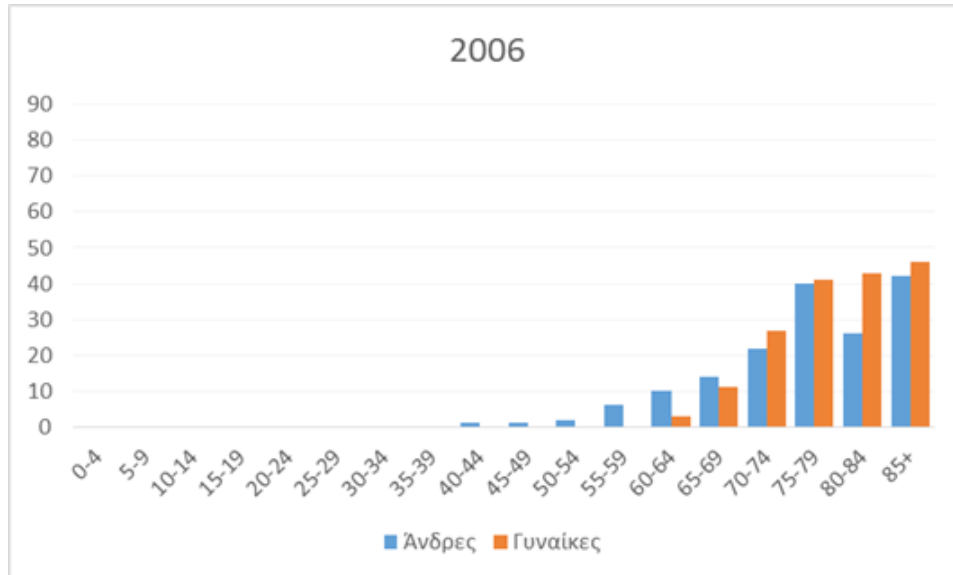
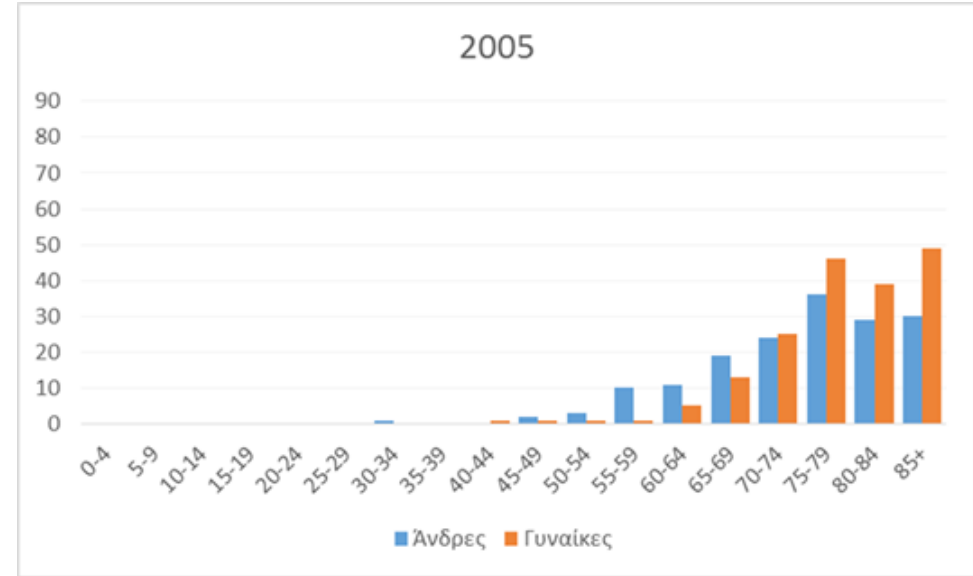
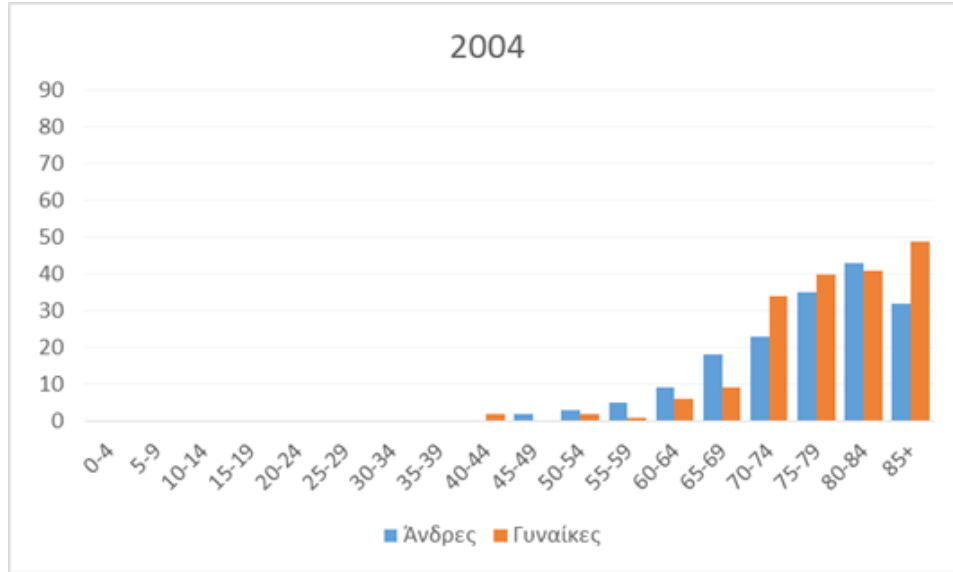
Source: Causes of Death Registry, HMU, MOH

http://www.moh.gov.cy/moh/moh.nsf/page70_gr/page70_gr?OpenDocument

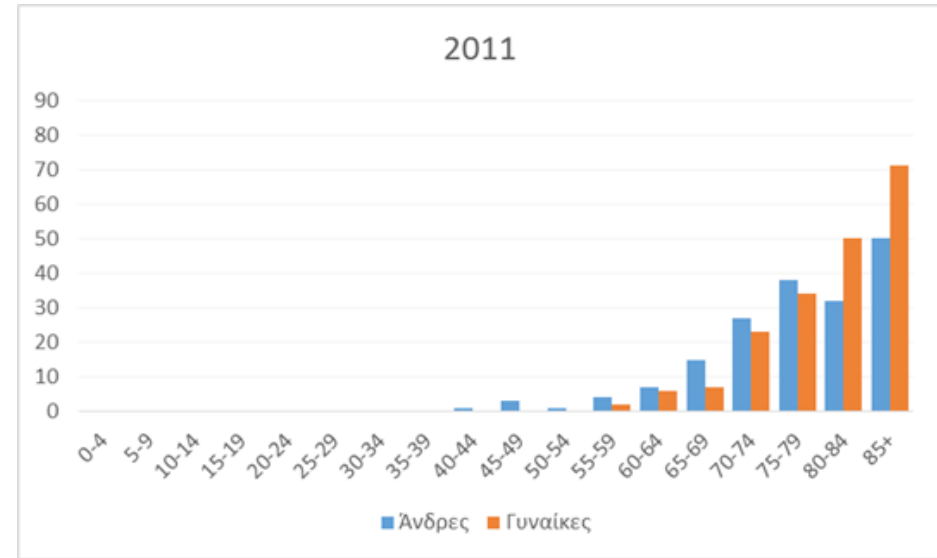
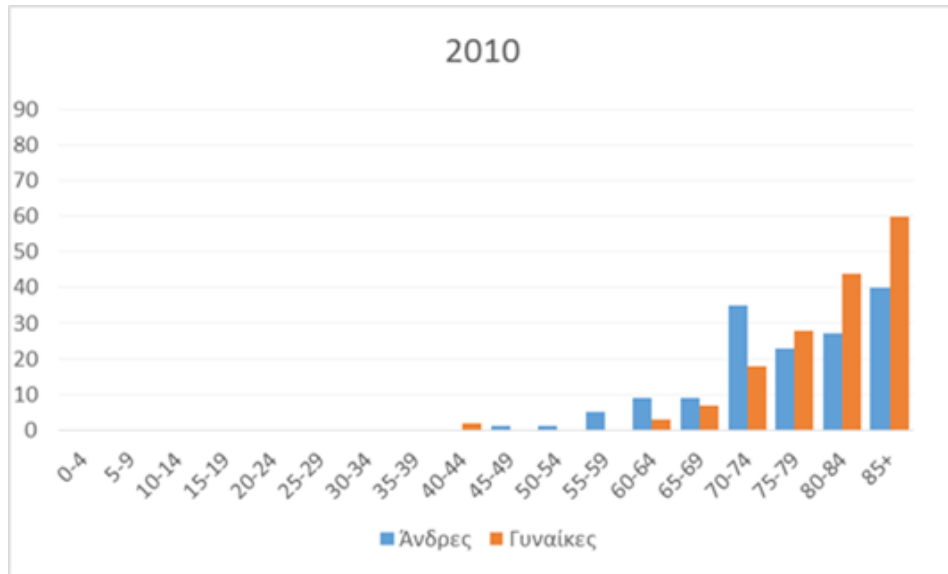
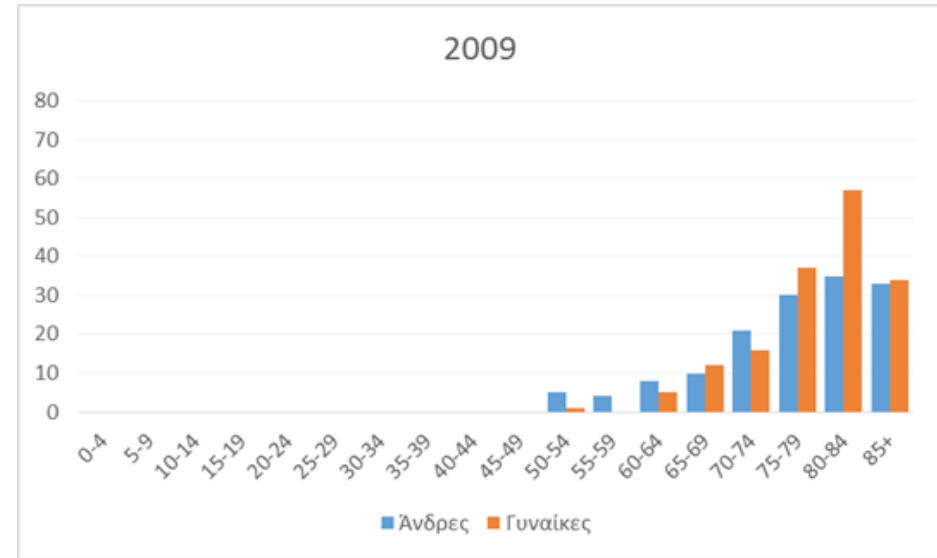
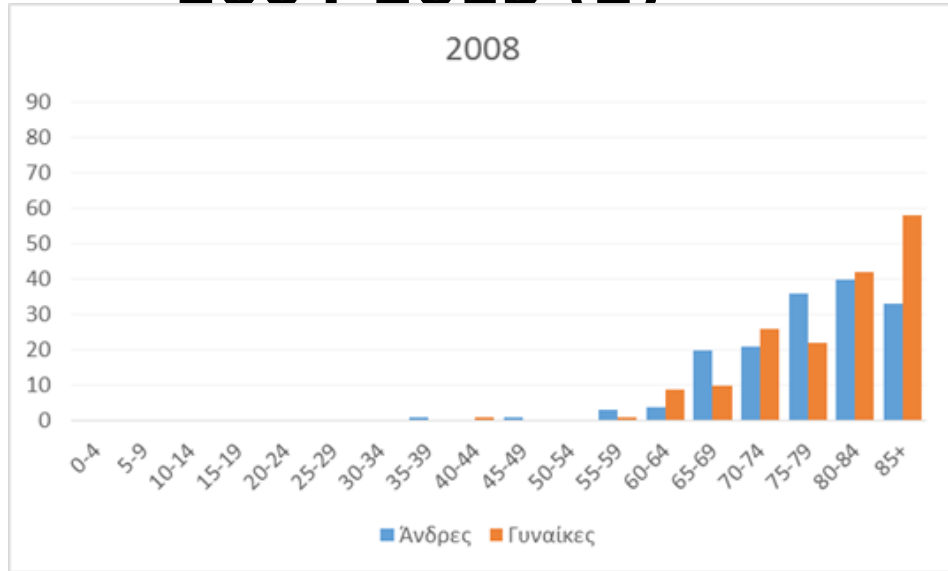
- **Endocrine, nutritional and metabolic diseases**
 - **4th cause of death (2015)**
 - **9% of the total number of deaths**
 - **Diabetes Mellitus**
 - **6% of the total number of deaths**



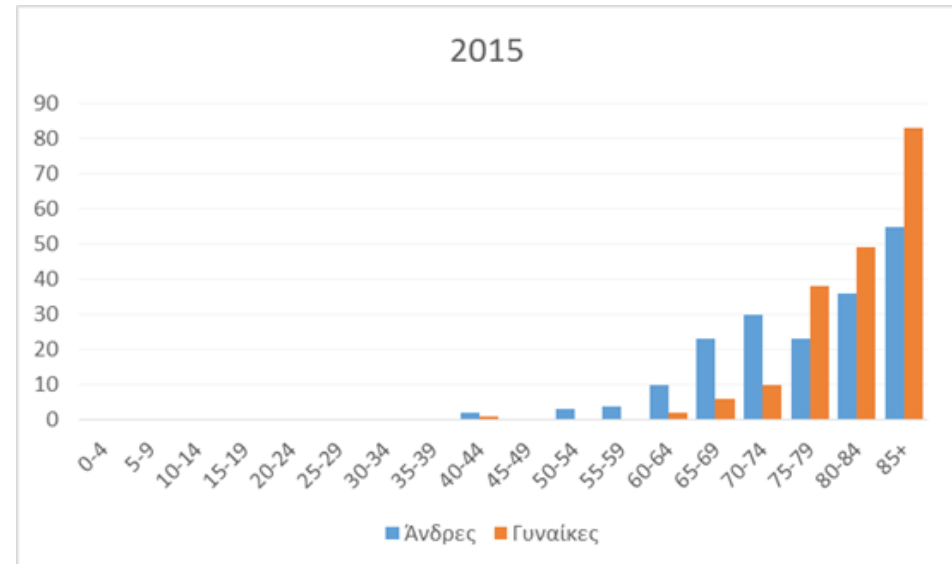
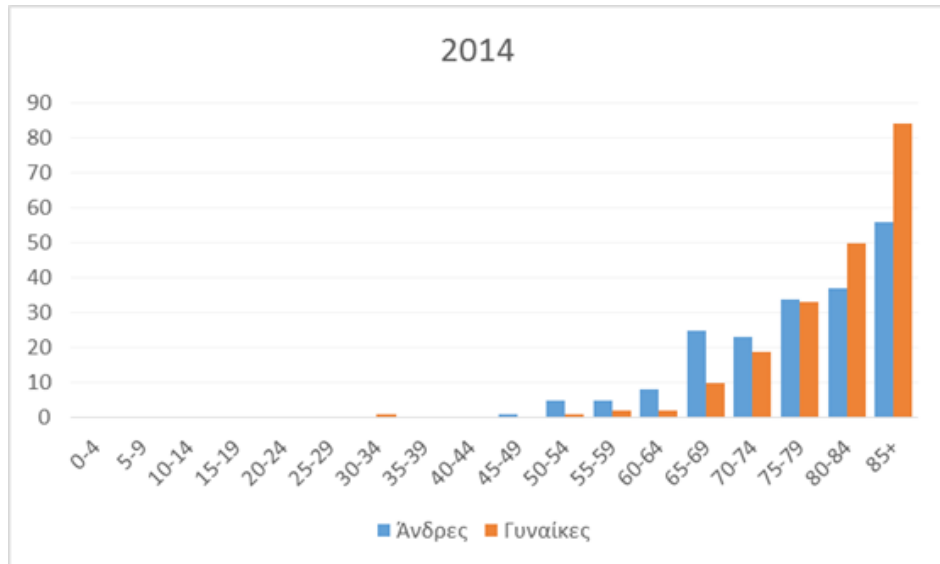
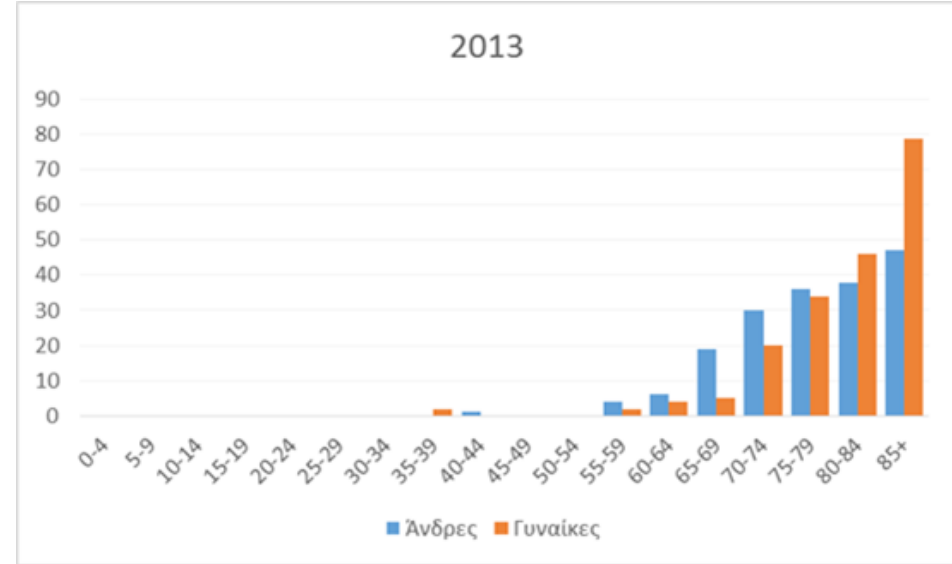
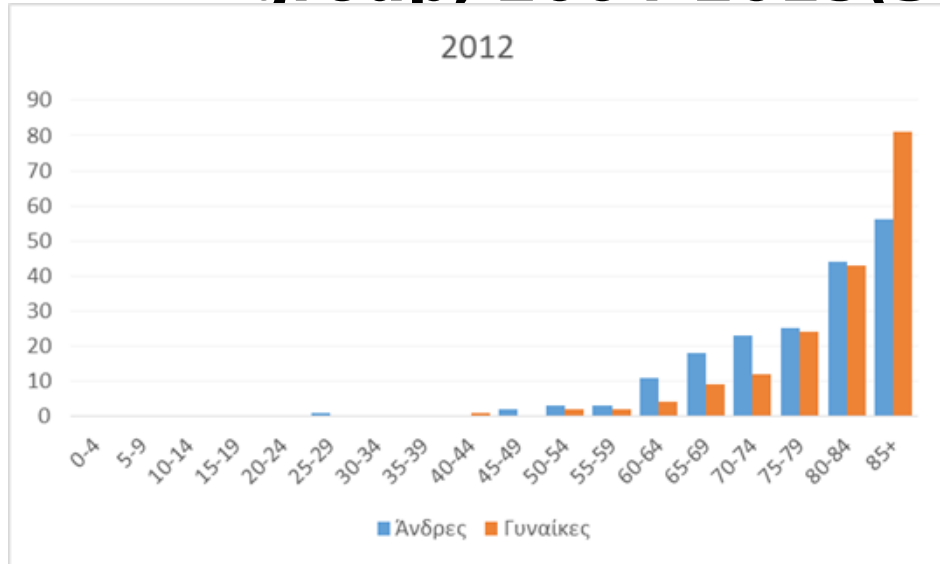
Deaths due to Diabetes Mellitus, by sex and age group, 2004-2015



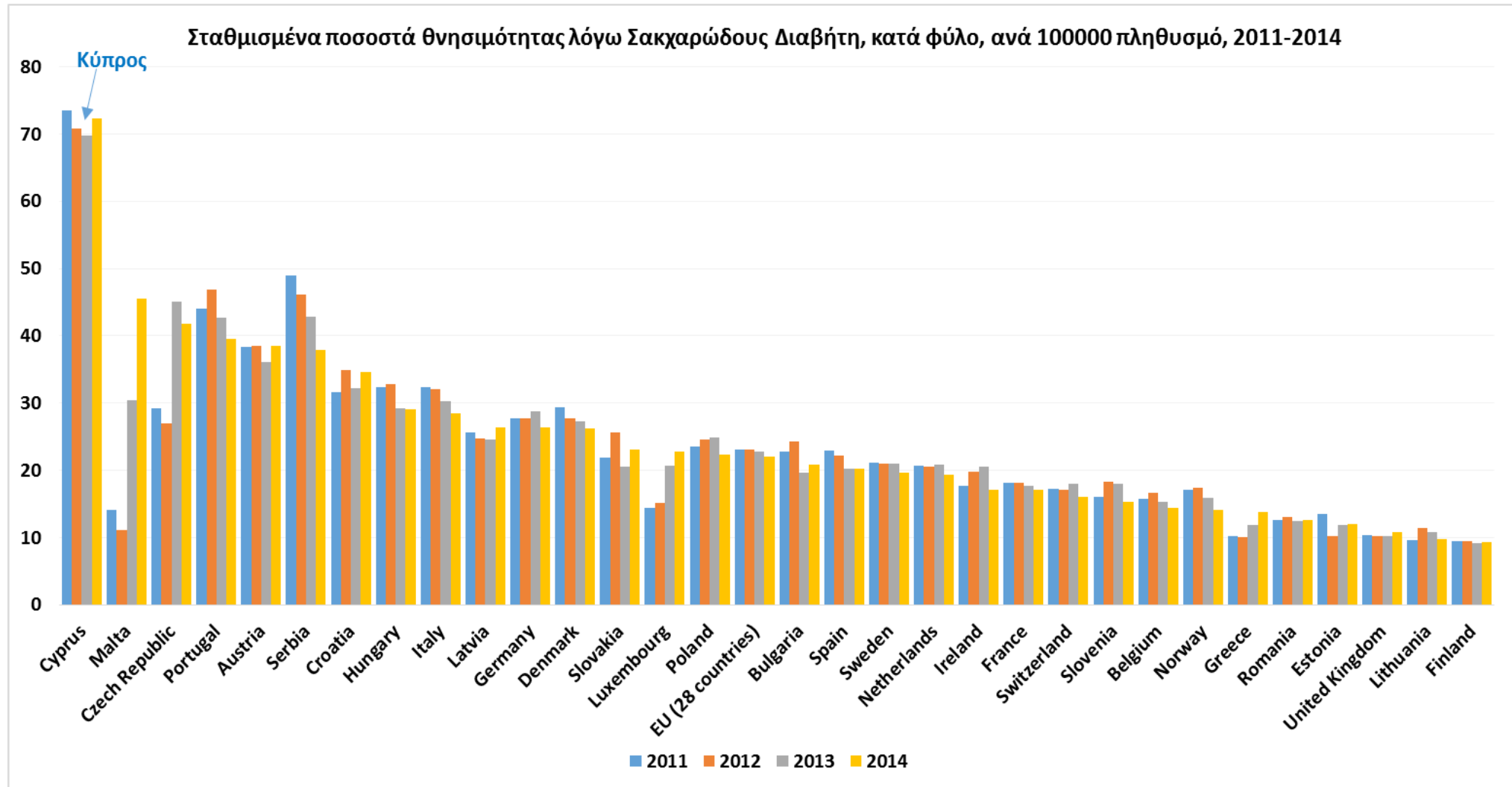
Deaths due to Diabetes Mellitus, by sex and age group, 2004-2015 (2)



Deaths due to Diabetes Mellitus, by sex and age group, 2004-2015(3)



Standardized Mortality Rates



Death rate of a population adjusted to a standard age distribution. As most causes of death vary significantly with people's age and sex, the use of standardized death rates improves comparability over time and between countries, as they aim at measuring death rates independently of different age structures of populations. The standardized death rates used here are calculated on the basis of a **standard European population** (defined by the World Health Organization).

Source: European Statistical Service
<http://ec.europa.eu/eurostat>



Diabetes related Morbidity in Cyprus

• European Health Survey 2014:

- Diabetes is one of the most common chronic illnesses
- Frequency of diabetes cases the last 12 months:
 - 5,1% (5,8% males & 4,5% females).

• European Health Survey 2008 vs 2014 (frequency %)

- 2008: 4,7%
- 2014: 5,1%

Source: European Health Survey, Statistical Service of Cyprus

http://www.mof.gov.cy/mof/cystat/statistics.nsf/index_gr/index_gr?OpenDocument



Contribution of the Diabetes Clinics and the HMU to the Diabetes Registry



- Diabetes Clinics:
 - EUBIROD form completed in clinic
 - Information is transferred to the electronic data base
 - End of year- Data accessed and collated into a spread sheet by the Department of Information and Technology Systems
 - Data send to HMU
- HMU
 - Quality checks
 - Correction of mistakes/missing values/deaths
 - Annual Presentation



Special Thanks

- New Larnaca Hospital
 - Dr George Olympios
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- OPD Old Larnaca Hospital / Kofinou Rural Med.Center
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 - Mrs Avgi Papageorgiou
- Ammochostos General Hospital
 - Dr Andonis Michaelides
 - Mrs Eleni Ioannou

