

BIRO The Malta Experience

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Mater Dei Hospital University of Malta

"A Shared Information System for Diabetes in Europe: final results of the B.I.R.O. Project" Dessau Conference Room Perugia, 25 May 2009



<u>Malta</u>

Malta, Gozo, Comino 100 km from Sicily 290 km from North Africa Population: 400,214





Malta

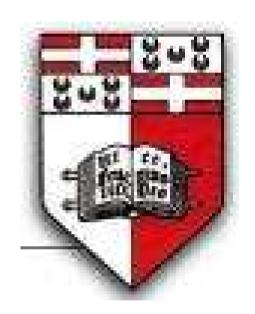
Parliamentary Democracy
Independence in 1964
A Tourist Centre
Freight Shipment Point
A Financial Hub
EU member since 2004





University of Malta

A long and distinguished history related to Medicine One of the oldest medical schools in the world Traces its origins to 1676





The Malta Health Services

Comprehensive 1^{ary}, 2^{ary} and 3^{ary} Health Service Free at the point of delivery

1^{ary} Care is given mainly in 8 Centres

Preventive, Curative and Rehabilitative services

Principal Public Hospital is Mater Dei Hospital A Private Health Service is also available



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The Diabetes Services

People with diabetes are entitled to free treatment Diabetes Clinics in Mater Dei & Peripheral Centers Cover 95% of all people with Diabetes in Malta In an ideal position for whole population studies



The Diabetes Services

Eyes: Screening, Laser and vitreous replacement Foot referral and a Peripheral Vascular Unit Podology, Orthotics and Prosthetics Service A joint Obstetrics – Diabetes Clinic Paediatric clinic run by a Paediatric Diabetologist Dialysis and Transplant Service



Other Services

Education

Type 1: Individual Education with relatives

Type 2: Group Education

Maltese Diabetes Association

Various radio and television educational programs

Under & post graduate educational programs

Dietetics: Only 2 part time dieticians

Limited free blood glucose monitoring service





The Diabetes Services

The Diabetes Clinic has a fully developed diabetes computerized management system

Good IT support

Pioneer of St Vincent DiabCare program

Present research interests

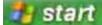
Epidemiology of diabetes

Coronary artery disease in diabetes

Use of Information Technology in diabetes

Genetic studies in nephropathy

























Docume

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start

All Micros HI - John

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Med. History







Hame :	Surname			11	Age 66 y	66 yrs DM Since 2 yrs			
Diabetes Type	Sex	Waist	Height	ВМІ		esired BMI: M: 20-25 F: 19-25			
Type 2	M	109cm	1.61m	31.1		Normal Waist Circ.: M:94cm F:80cm (Europids)			

First Available

Review in

3 (months)

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Status DM History	Clinic Visit & Drugs	Symptoms	Med History Physical	Complications	Diet	Laboratory	Education	

Medical History

Date	Condition	Year Noted	Management	
09/09/2008	Ischaemic heart disease	2004	Surgical;	
09/09/2008	Hyperlipidaemia		Medical;	
				à

12	Action	AM	Noon	PM	Bed	Date	Com
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	Conti	0.0	75.0	0.0	0.0	09/0	
	Conti	0.0	0.0	0.0	40.0	09/0	
	Conti	1.0	0.0	0.0	0.0	09/0	
		Conti Conti Conti	Conti 0.0 Conti 0.0 Conti 0.0	Conti 0.0 0.0 Conti 0.0 75.0 Conti 0.0 0.0	Conti 0.0 0.0 8.0 Conti 0.0 75.0 0.0 Conti 0.0 0.0 0.0	Conti 0.0 0.0 8.0 0.0 Conti 0.0 75.0 0.0 0.0 Conti 0.0 0.0 0.0 40.0	Conti 0.0 0.0 8.0 0.0 09/0 Conti 0.0 75.0 0.0 0.0 09/0 Conti 0.0 0.0 0.0 40.0 09/0











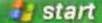








Visit Details Education Finish & Hame ID Surname Age 66 VIS DM Since 2 yrs Desired Weight Desired BMI: M: 20-25 F: 19-25 Waist Height BMI Diabetes Type Sex Normal Waist Circ.: M:94cm Type 2 M 109cm 1.61m 31.1 F:80cm (Europids) First Available 3 (months Review in Status DM History Clinic Visit & Drugs Symptoms Med. History Physical Complications Diet Laboratory Education 09/09/2008 Date Topic Booked for course of Educational lectures -Educator Azzopardi J. Professor Comments Topic Educator Date 0 10 Mic... + 2 HI - Inb... Diabete...

























The Diabetes Management System

Used as a management system and registry
Manual and Electronic Records
Some doctors not keen on IT
Quite a lot of back data to be entered
System not yet introduced in Periphery



Why did Malta join BIRO?

Interesting, ambitious and innovative project
The possibility to analyse our data and compare
with other centres

Potential to identify and deal with deficiencies Reliable partners

In retrospect, project brought successfully to an end





Is there a need for BIRO?



To deal with the Diabetes problem we need dependable and comparable data

Deficiencies can then be recognized and effective strategies put in place



EU Recommendations

- >Improve the collection & reporting of diabetes data
- Promote networking and data exchange
- ➤ Facilitate diabetes research and ensure wide dissemination of results



<u>Implementation</u>

Cooperation among Member States
Establishment of a standard dataset
Development of information technology to
collect and analyze the data and
disseminate the results



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Hence BIRO





Software that links different datasets

Analyses data and produces across region population based Diabetes reports

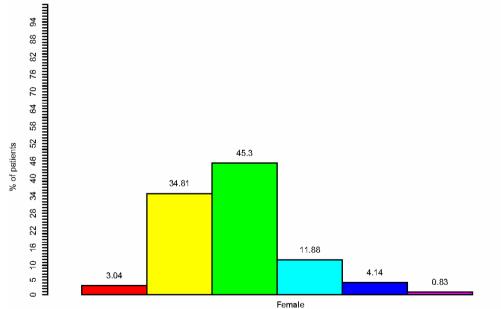
Will help identify effective and not so effective patterns of care and prevention

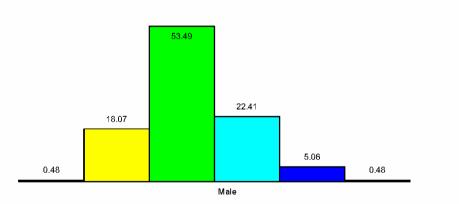
Supports the management of the disease on a continuous basis



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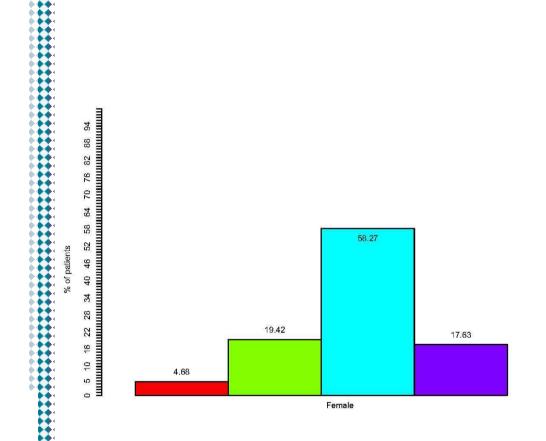




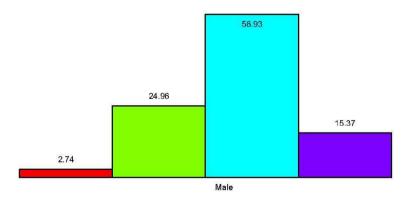




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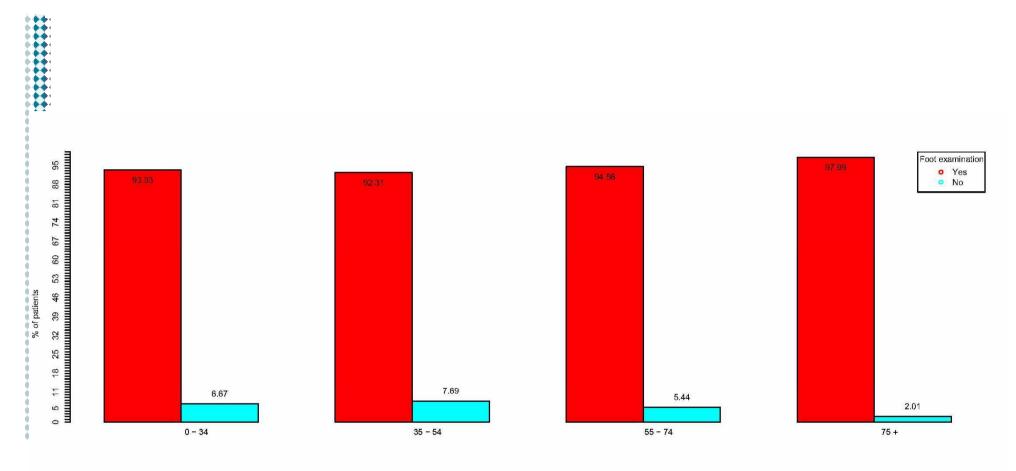








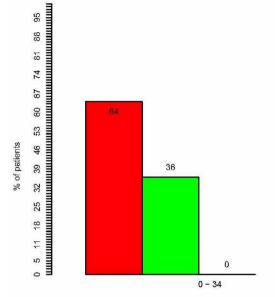
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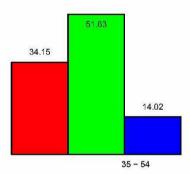


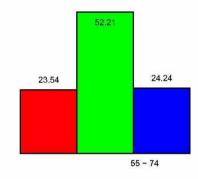


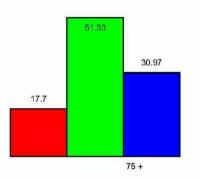
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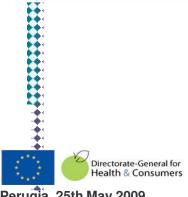








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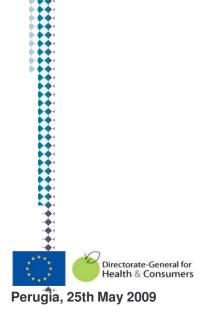
Perugia, 25th May 2009



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Next Steps

EUBIROD





Software is freely available

Goverments
Research institutions and scientific bodies
Health care Care Institutions
Private citizens

across the European Union, and beyond Can eventually be used for other diseases





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B. I. R. O.

Health & Consumers