

Coordinated Information
Delivery from diabetes registers
to improve quality and outcomes
in Europe

The Malta Experience so far

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The Problem

- **Data on quality of care and on morbidity and mortality are lacking in a number of countries**
- **A considerable amount of data is not easily available, fragmented, or poorly presented**
- **This situation applies also to other diseases**

Malta

- Population in 2009: 419285
- About 10% of people over 18 have Diabetes
- 11 Diabetologists
 - 22 doctors attending diabetes Clinics
- Hospital beds: 2000
- Doctors registered in Malta : 3000
- One central Diabetes Clinic with 6 peripheral clinics
- 23000+ attend Diabetes Clinics
- 13500 on Computerised system

Malta and the BIRO Project

Seen between 1st April 2009 and
31st December 2009

<u>2</u>	<u>1</u>	<u>Others</u>	<u>IGT</u>	<u>IFG</u>	<u>No DM</u>	<u>GTT</u>
235	4	1	8	17	22	33

Diabetes Type by age

<u>Type of Diabetes</u>	<u>0-34(%)</u>	<u>35-54(%)</u>	<u>55-74(%)</u>	<u>75+(%)</u>	<u>Totals(%)</u>
Type 1	1(16.7)	2(3.8)	1(0.7)	0(0)	4(1.7)
Type 2	5(83.3)	51(96.2)	148(98.7)	31(100)	235(97.9)
Other	0(0)	0(0)	1(0.7)	0(0)	1(0.4)
	6(2.5)	53(22.1)	150(62.5)	31(12.9)	240(100)

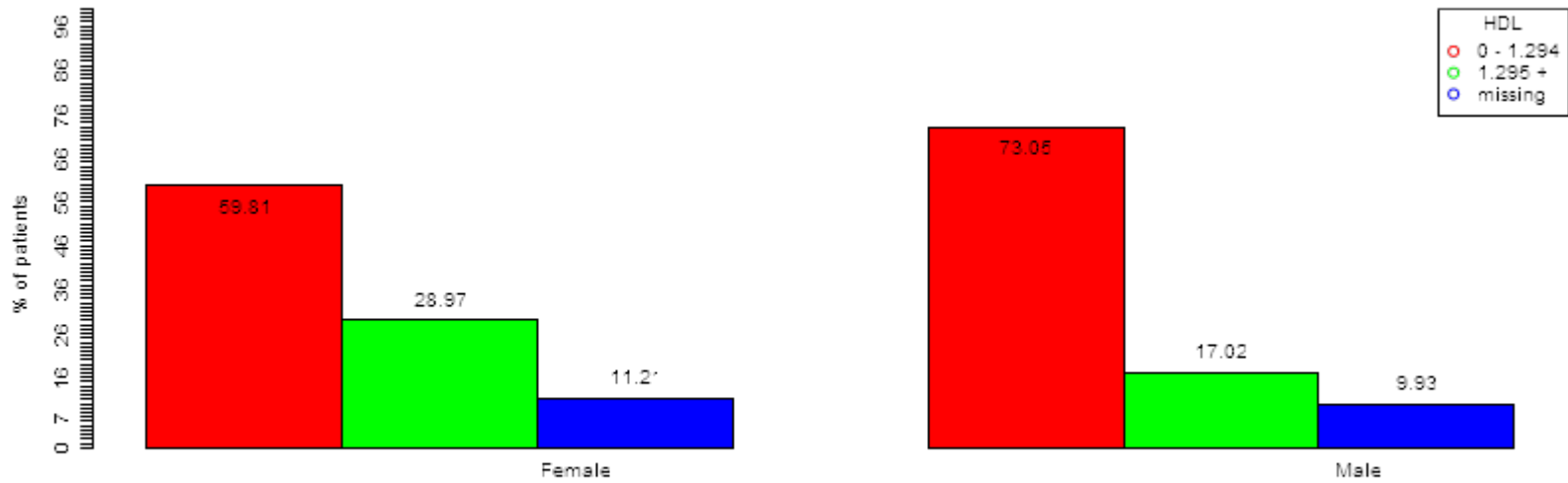
Type 2 Diabetes by Weight

<u>Wt</u>	<u>0 – 34(%)</u>		<u>35 – 54(%)</u>		<u>55 – 74(%)</u>		<u>75 +(%)</u>		<u>Totals</u>
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	
0-49	0(0)	0(0)	0(0)	0(0)	0(0)	1(1.6)	1(7.1)	1(5.9)	3(1.3)
50-69	0(0)	1(50)	3(102)	4(18)	10(11.4)	24(39)	4(28.6)	5(29.4)	51(22)
70-89	0(0)	1(50)	11(38)	6(27)	56(64.3)	24(39)	8(57.1)	6(35.3)	112(48)
90-109	2(67)	0(0)	12(41)	9(41)	16(18.4)	7(11.5)	1(7.1)	3(17.7)	50(21)
110-129	0(0)	0(0)	2(6.9)	2(9)	3(3.5)	4(6.6)	0(0)	0(0)	11(4.7)
130 +	1(33)	0(0)	1(3.5)	0(0)	0(0)	1(1.6)	0(0)	0(0.)	3(1.3)
Missing	0(0)	0(0)	0(0)	1(5)	2(2.3)	0(0)	0(0)	2(11.8)	5 (2.1)

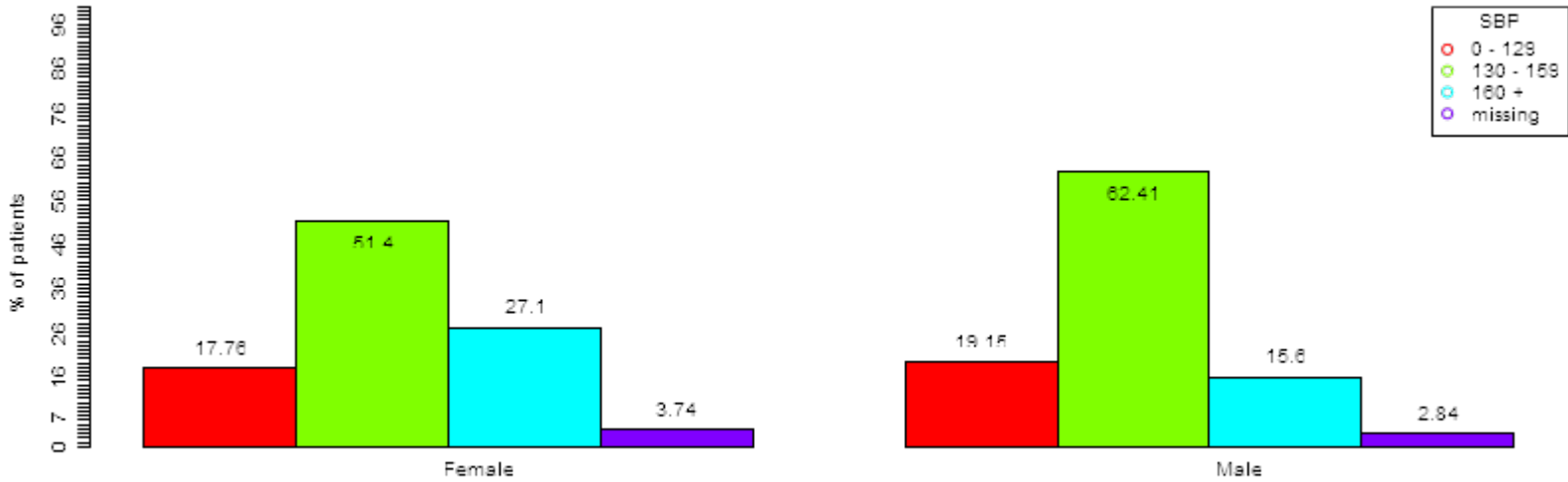
BMI by Age

Type 2									
<u>BMI</u>	<u>0 – 34(%)</u>		<u>35 – 54(%)</u>		<u>55 – 74(%)</u>		<u>75 +(%)</u>		
	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	
0-24	0(0)	0(0)	5(17.24)	2(9.1)	7(8.05)	4(6.56)	4(28.6)	1(5.88)	23(9.79)
25-26	0(0)	0(0)	1(3.45)	1(4.55)	12(13.8)	6(9.84)	4(28.6)	1(5.9)	25(10.6)
27-29	0(0)	1(50)	5(17.24)	1(4.55)	17(19.5)	13(21.3)	3(21.4)	4(23.5)	44(18.7)
30-39	2(67)	1(50)	15(51.7)	13(59)	44(50.6)	27(44.3)	3(21.4)	6(35.3)	111(47)
40 +	1(33)	0(0)	3(10.34)	4(18.2)	4(4.60)	10(16.4)	0(0)	1(5.88)	23(9.8)

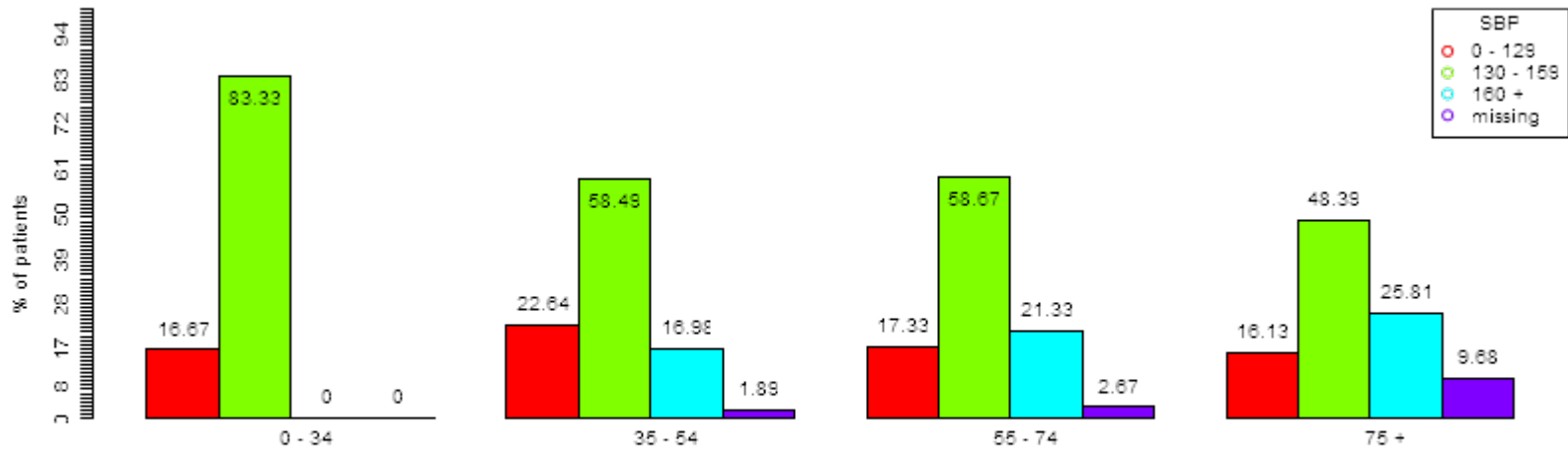
HDL by Gender



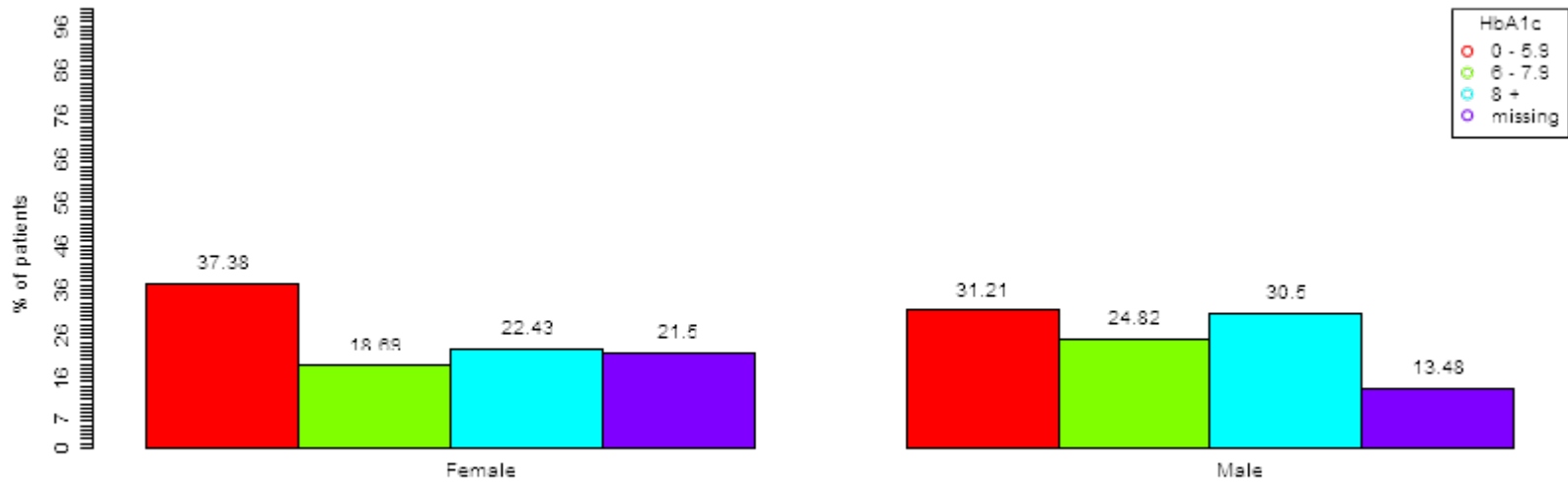
SBP by Gender



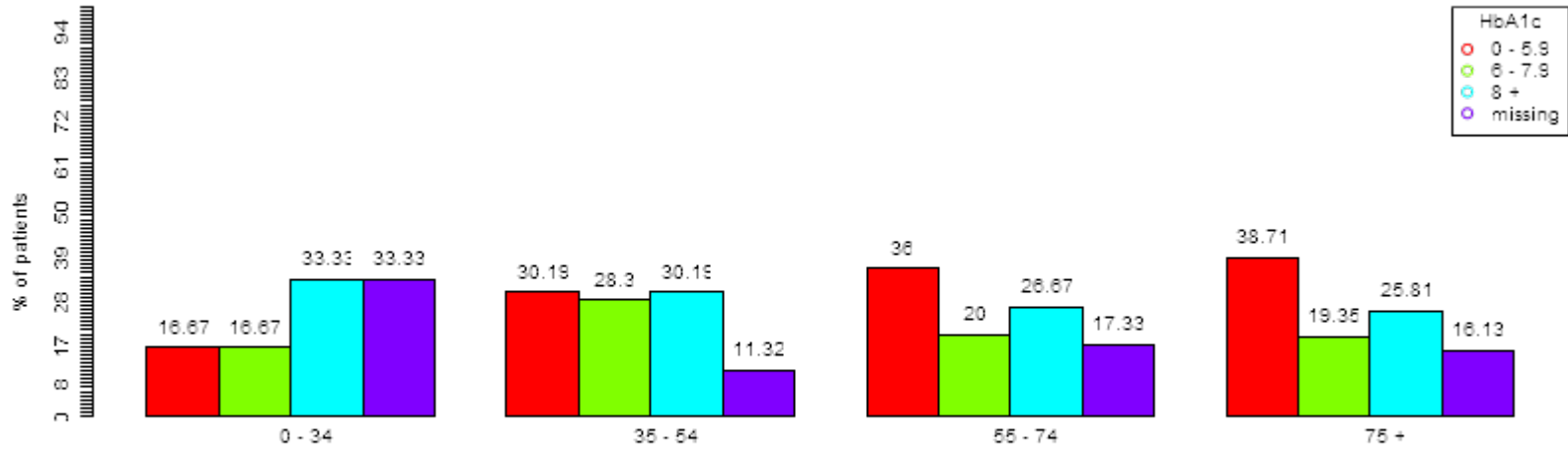
SBP by Age



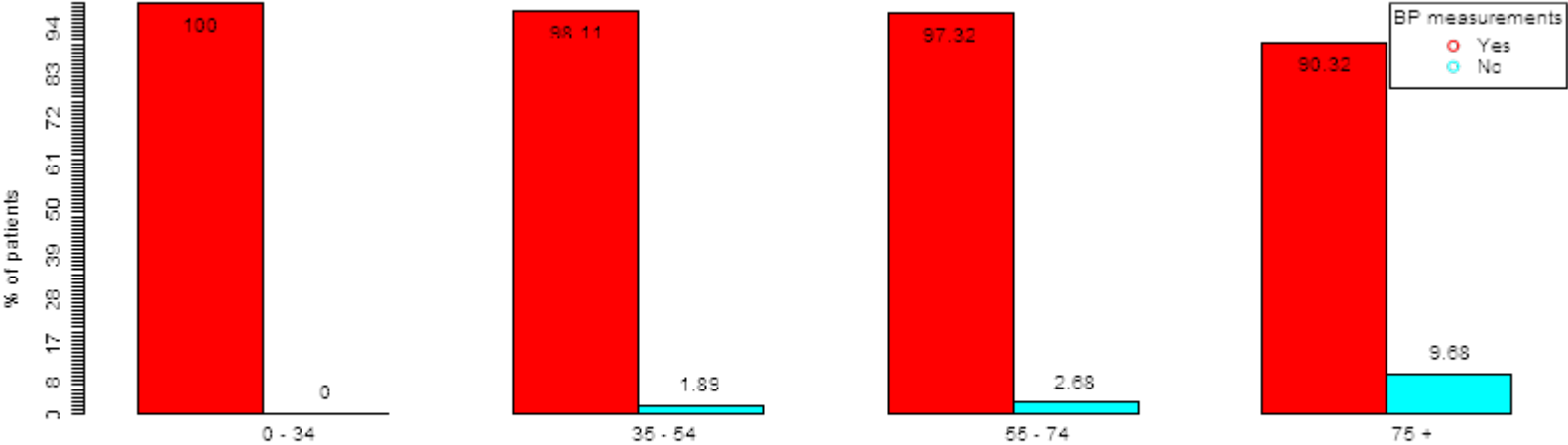
Hba1C by Gender



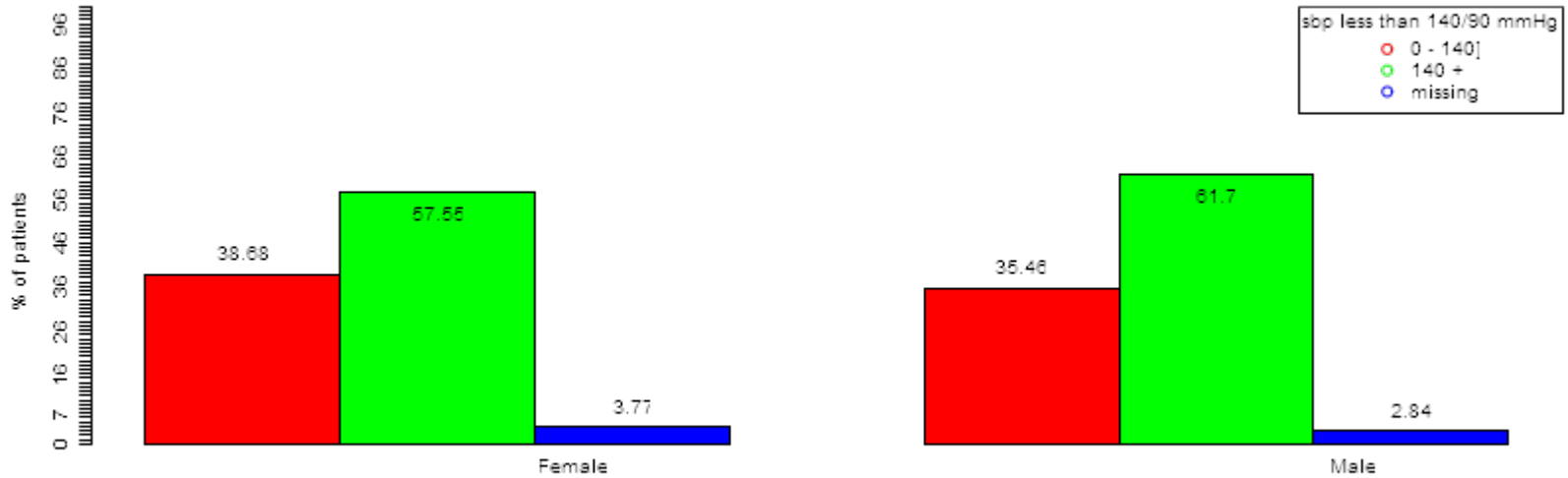
Hba1C by Age



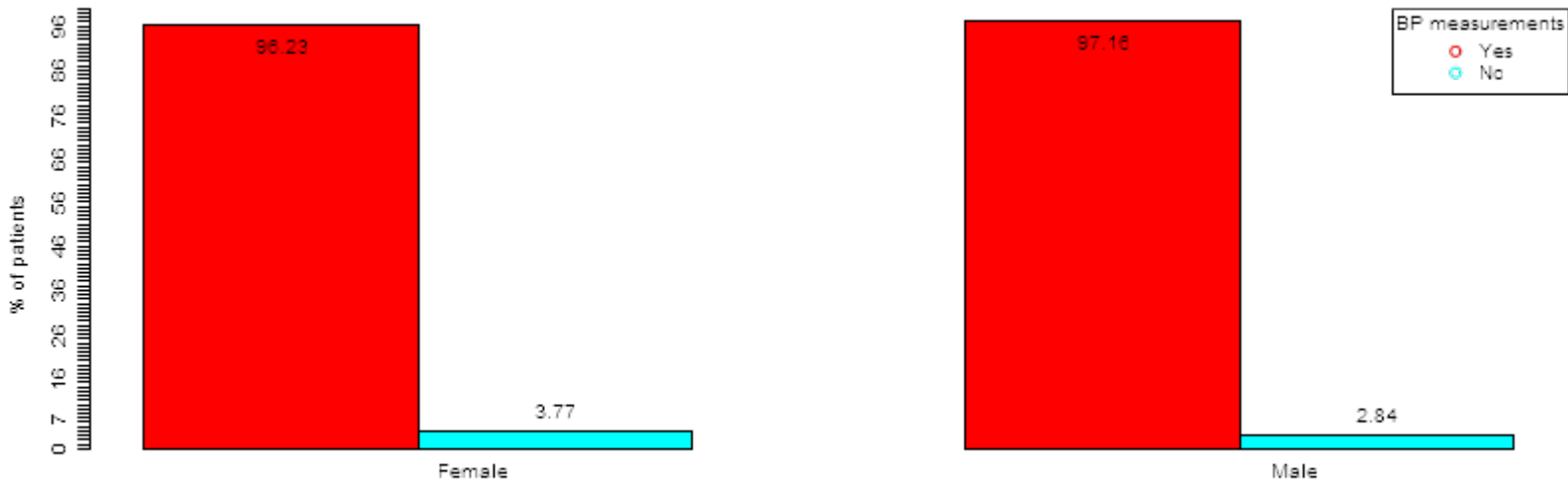
BP Measurements over year by Age



SBP less than 140/90



BP Measurements over Year by Gender



B.I.R.O.

A tool in the prevention and care of diabetes in Europe by:

- **Pooling & analysing data from regional databases**
- **Producing sustainable and reliable population based summary diabetes reports**
- **Helping identify patterns of care and prevention**
- **Helping verify best practice guidelines**