

## Appendix B – Epidemiological parameters and parameters for direct health costs associated with diabetes and its comorbidities

Epidemiological parameters	Base case	Min	Max	SE	References	DISTRIBUTION	ALPHA	BETA
<b>Residential population as of 1 January 2014</b>	<b>60,782,668</b>				<b>1</b>			
2014 DM prevalence (total)	6.3%	5.5%	7.3%	0.005	2-5	BETA	154.5	2283.3
DM2 proportion	90.5%	90.0%	91.0%	0.003	2-4	BETA	11956.2	1254.1
DM 2 prevalence	5.7%	5.0%	6.6%	0.004	2-5	BETA	155.4	2555.7
<b>Comorbidity</b>								
Diabetes	13.3%	12.1%	14.4%	0.006	Marche region	BETA	466.9	3052.4
Diabetes + 1 comorbidity	34.9%	34.9%	35.0%	0.000	Marche region	BETA	575752.8	1071814.5
Diabetes + 2 comorbidities	42.3%	41.3%	43.2%	0.005	Marche region	BETA	4300.9	5871.7
Diabetes + 3 comorbidities	9.1%	8.8%	9.4%	0.002	Marche region	BETA	3259.0	32524.1
Diabetes + 4 comorbidities	0.4%	0.4%	0.5%	0.000	Marche region	BETA	310.6	75768.7
<b>Direct health costs</b>								
Diabetes	€ 437	€ 419	€ 454	€ 9.10	Marche region	GAMMA	2302.1	0.1897
Diabetes + 1 comorbidities	€ 1,558	€ 1,534	€ 1,583	€ 12.37	Marche region	GAMMA	15873.2	0.0982
Diabetes + 2 comorbidities	€ 2,704	€ 2,675	€ 2,732	€ 14.69	Marche region	GAMMA	33873.1	0.0798
Diabetes + 3 comorbidities	€ 5,947	€ 5,843	€ 6,051	€ 53.04	Marche region	GAMMA	12571.5	0.4731
Diabetes + 4 comorbidities	€ 7,574	€ 7,090	€ 8,059	€ 247.14	Marche region	GAMMA	939.2	8.0641

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