

Appendix 3. Cost estimation

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	Unit cost €2021 (SD)	Source
Hospitalization /day	652.58 (188.86)	Public tariff*
Visit to specialist	95.65 (33.98)	Public tariff*
Visit to nurse at primary care	27.06 (7.52)	Public tariff*
Hospital emergency	207.54 (72.03)	Public tariff*
Visit to doctor at primary care	50.91 (17.63)	Public tariff*
Non-hospital emergency	99.41 (22.83)	Public tariff*
HbA1c determination	7.15 (5.16)	Public tariff*
Test strips	0.43 (0.15)	Consult*
Lancets	0.109 (0.11)	Consult*
FSL sensor device	43.27	Information provided by the manufacturer
Absenteeism day	166.896	Estimate based on Eurostat and INE

FSL = FreeStyle Libre®; SD = Standard deviation.
 * Spanish autonomous communities.
 INE = Spanish Statistical Office.
 Unit costs come from different sources, all national, and include official tariffs. Where possible, the average costs of those Spanish regions for which data were available were taken into account
 To estimate the unit cost of test strips and lancets, the Spanish regions were consulted for their spending on these products. There was great heterogeneity between regions, not only in the unit cost (between €0.10 and €0.48), but also in the products financed, since lancets are only financed in some regions.

Table A2. Total annual cost per patient of the FSL flash glucose monitoring system (€2021)

	Primary care	Emergency	Specialist	Laboratory	Monitoring*	Total costs
Mean (SD)	136.78 (101.28)	50.70 (161.66)	415.48 (129.53)	29.05 (5.87)	1572.25 (317.58)	2204.26 (425.73)
Min. – Max.	0 – 474.24	0 – 1245.24	0 – 956.5	14.30 – 71.50	1125 – 2420.39	1344.90 – 3626.20
95%CI	(119.88; 154.65)	(25.74; 80.73)	(393.81; 438.65)	(28.1; 30.16)	(1519.13; 1627.46)	(2131.33; 2278.01)

95%CI = Confidence interval at 95% by Bootstrap based on 10,000 samples; Max. = Maximum; Min. = Minimum; SD = Standard Deviation
 *Including cost of test strips and lancets, and cost of sensor

Table A3. Average number of test strips and lancets per patient and total annual costs due to lost parent/caregiver productivity before and after FSL use.

	Before use of the flash glucose monitoring system	After use of the flash glucose monitoring system
Average number of test strips and lancets per patient before and after use of the FSL device		
Yearly test strips, mean (SD)	2686.02 (527.63)	883.98 (669.45)
Yearly Lancets, mean (SD)	1366.41 (1063.44)	615.94 (482.03)
Total annual cost per patient due to productivity losses (€2021)		
Mean (SD)	545.67 (588.29)	262.73 (334.30)
Min. – Max.	0 – 3504.82	0 – 1668.96
95%CI	(448.55; 650.63)	(206.65; 322.71)
95%CI = Confidence interval at 95% by Bootstrap based on 10,000 samples; Max. = Maximum; Min. = Minimum; SD = Standard deviation.		