

Supplementary file 2: Uptake of insulin pumps and continuous glucose monitoring (CGM) systems depending on healthcare coverage or insurance reimbursement for diabetes technologies

	Universal/partial healthcare coverage	No healthcare coverage	P value	Private insurance companies cover/ reimburse	Private insurance companies do not cover/reimburse	P value
<b>Use of insulin pump</b>			< 0.0001			< 0.0001
• Less than 10%	11.8%	70.6%		20.6%	50.9%	
• 10-30%	27.7%	4.7%		15.5%	20.8%	
• 30-50%	33.6%	12.9%		32.0%	17.9%	
• More than 50%	26.9%	11.8%		32.0%	10.3%	
<b>Agreement to start on insulin pump</b>			<0.0001			< 0.0001
• Less than 25%	8.4%	47.6%		9.4%	38.7%	
• 25-50%	21.8%	15.4%		22.9%	16.0%	
• 50-75%	31.1%	22.6%		34.4%	20.7%	
• More than 75%	38.9%	14.3%		33.3%	24.5%	
<b>Use of CGM systems</b>			<0.01			<0.01
• Less than 10%	11.1%	47.7%		15.4%	43.9%	
• 10-30%	14.8%	23.9%		13.5%	28.0%	
• 30-50%	16.7%	14.8%		19.2%	11.2%	
• More than 50%	57.4%	14.8%		51.9%	16.8%	
<b>Agreement to start on CGM system</b>			<0.01			<0.01
• Less than 25%	3.7%	32.6%		9.8%	28.3%	
• 25-50%	16.7%	20.9%		11.8%	20.7%	
• 50-75%	20.4%	26.7%		31.4%	27.4%	
• More than 75%	59.3%	19.8%		47.1%	23.6%	
<b>Reason why patients turndown technology:</b>			<0.0001			0.03
• Family preference for keeping on injections and fingersticks	7.5%	4.7%		8.2%	4.7%	
• Fear	4.2%	3.5%		3.1%	4.7%	
• Parents cannot afford or maintain therapy	17.5%	57.6%		26.5%	41.5%	
• Patient does not want to wear something on its body	65.8%	28.2%		58.2%	42.4%	

• Unawareness of technologies	3.3%	3.5%		1.0%	5.7%	
• Reduced diabetes literacy	0.8%	1.2%		2.0%	0	
• Not available	0.8%	1.2%		1.0%	0.9%	
<b>Agreement with the statement “All patients, regardless of circumstance, should be offered insulin pump therapy”</b>	85.2%	78.9%	0.12	85.0%	79.6%	0.13
<b>Disagreement with the sentence “No patient, regardless of circumstance, should be offered insulin pump therapy”</b>	87.3%	86.6%	0.70	86.2%	87.7%	0.88
<b>Relevant factors when starting a patient on insulin pump <sup>a</sup></b>						
• <b>Extremely relevant:</b>						
○ Age	35.6%	31.9%	0.75	28.2%	39.4%	0.20
○ History of severe hypoglycemia	58.9%	55.1%	0.79	50.6%	62.8%	0.32
○ Suboptimal glycemic control	44.1%	35.6%	0.07	34.5%	44.8%	0.15
○ Requirement of small dosage of insulin	48.4%	51.1%	0.72	50.6%	49.0%	0.87
• <b>Fairly relevant:</b>						
○ Patient or caregiver preference	31.9%	38.9%	0.27	32.0%	39.1%	0.09
<b>Contraindications to starting a patient on insulin pump <sup>b</sup></b>						
• <b>No contraindication:</b>						
○ Age less than 3 years old	86.3%	87.5%	0.62	87.2%	86.7%	0.08
○ One or more episodes of diabetic ketoacidosis	50.0%	48.0%	0.96	50.0%	48.1%	0.96
• <b>Relative contraindication</b>						
○ History of infrequent glucose monitoring/no use of CGM	46.1%	72.0%	0.007	55.4%	65.1%	0.07
○ Inadequate						

<b>parental/caregiver supervision</b>	45.9%	56.0%	0.47	53.4%	48.7%	0.41
• <b>Absolute contraindication:</b>						
○ <b>Infrequent follow-up</b>	48.7%	49.4%	0.13	41.6%	56.2%	0.17

a. On a scale from not at all relevant to extremely relevant, data were assessed for the most indicated option.

b. On a scale from not at all a contra-indication to an absolute contra-indication, data were assessed for the most indicated option.