

National Paediatric Diabetes Audit - Spotlight audit report: Diabetes-related technologies 2017-18

The Royal College of Paediatrics and Child Health (RCPCH)

## **Foreword**

# Key terms used within this report

### **Artificial pancreas**

### Continuous glucose monitor (CGM)

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### DIY closed loop artificial pancreas

#### Flash glucose monitoring

#### HbA1c

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#### Insulin

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## Insulin pump therapy

### Multiple daily injection insulin therapy

# Introduction

# **Key findings**

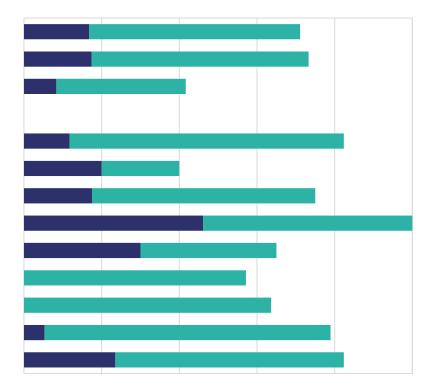
## Treatment regimen at diagnosis of Type 1 diabetes



## Initiating and discontinuing insulin pump therapy

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Figure 2: Typical wait time for insulin pump initiation following approval by country and region, 2017/18

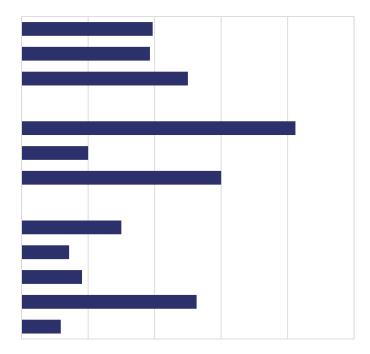


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## Insulin pump usage and support



Figure 3: Percentage of PDUs with a dedicated insulin pump therapy clinic by country and region, 2017/18



## Insulin pump training within the MDT

# Use of glucose monitoring technologies (continuous and flash glucose monitors)

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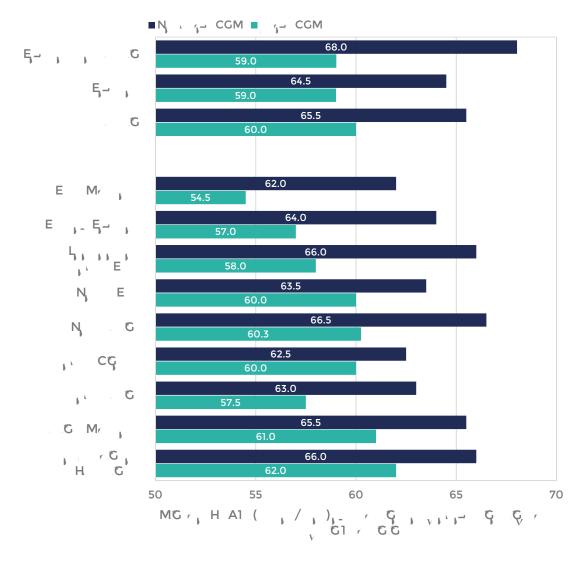
## Funding for diabetes technologies

## HbA1c outcomes by treatment regimen and CGM usage

Figure 4: Case mix adjusted mean HbA1c and percentage of children and young people using an insulin pump by PDU, 2017/18

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Figure 8: Median HbA1c of children and young people with Type 1 diabetes using CGM or not by region and country, 2017/18



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# Table 1: Results of regression analysis of mean HbA1c by treatment regimen compared to MDI alone taking into account measurable socio-demographic co-factors.

Variable	Change in mean HbA1c (mmol/mol) (95% CI)	P-value
Treatment regimen and CGM usage (cf to MDI ale	one)	
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## **Discussion**

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## Conclusion

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## Recommendations

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## **Data tables**

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## **Acknowledgements**

## **Report Editors**

### **Data Analysis**

#### National Paediatric Diabetes Audit Clinical Lead

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### **Project Management**

### **Project Support**

#### National Paediatric Diabetes Audit Project Board

### National Paediatric Diabetes Audit Dataset Working Group

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### **HQIP Support**

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## References

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