University Hospitals of North Midlands

## Monitoring HbA1C in patients on continuous subcutaneous insulin infusion for the treatment of Type 1 Diabetes

P De Silva, G Kayello, O Oso

## **Introduction and Method**

- A retrospective study of 33 paediatric patients with type 1 diabetes mellitus on insulin pump therapy
- Compared the HbA1C levels before and after starting insulin pump therapy
- Compared the change in HbA1C levels between males and females and in different age groups





• 71% of male patients showed an improvement of their HbA1c compared to 25% of female patients

## 42%

- The age of diagnosis was <5 years in the majority (42%)
- The gender distribution was almost equal
- The majority of patients were >11 years when insulin pump therapy was initiated (63%).
- There was an improvement of HbA1C of greater than 0.5% in 49% of our patient group
- 42% of patients did not improve their HbA1c levels

• > 14 year olds improved their HbA1c results more compared to younger age groups

## **Conclusions**

- The benefit of subcutaneous insulin pump therapy varied between male and female patients and among different age groups
- Several factors need to be addressed in the future to achieve an improvement in HbA1C e.g. compliance, dietary advice, training and education

RESEARCH POSTER PRESENTATION DESIGN © 2015 www.PosterPresentations.com