

MEDICAL PARAMETERS IN CONTINUOUS SUBCUTANEOUS INSULIN INFUSION THERAPY

Celestino Neves^{1,2}, Anabela Costa¹, Carmo Redondo¹, Miguel Pereira¹, Sofia Oliveira^{1,2}, César Esteves^{1,2}, Cristina Arteiro¹, Rui Baltazar¹, Davide Carvalho^{1,2,3}



SÃO JOÃO

¹ São João Hospital Center, Department of Endocrinology, Diabetes and Metabolism; Porto, Portugal

² University of Porto, Faculty of Medicine; Porto, Portugal

³ University of Porto, Institute for Innovation and Health Research; Porto, Portugal.



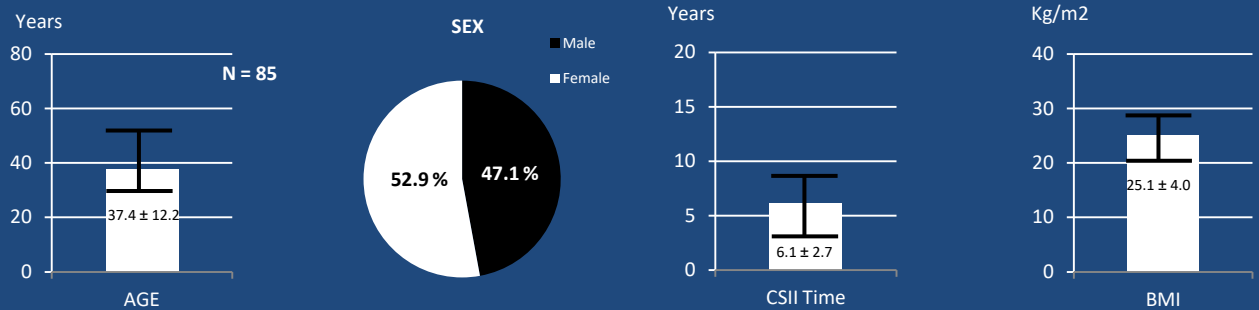
Background

Functional insulin therapy is regularly applied to diabetic patients in Continuous Subcutaneous Insulin Infusion (CSII) attending Endocrinology appointments in São João Hospital Center. It is of extremely relevance and importance to monitor patients evolution, not only analytically, but also the onset of well-known diabetes complications or its progression, the frequency of adverse side effects (for instance, hypoglycemia and hyperglycemia episodes) and the expected changes in quality of life.

Objective

To evaluate the variation of medical parameters in patients with type 1 diabetes on CSII therapy.

Patients

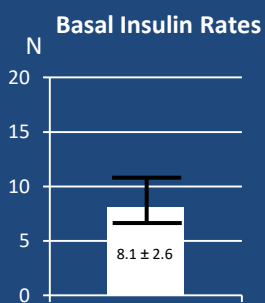
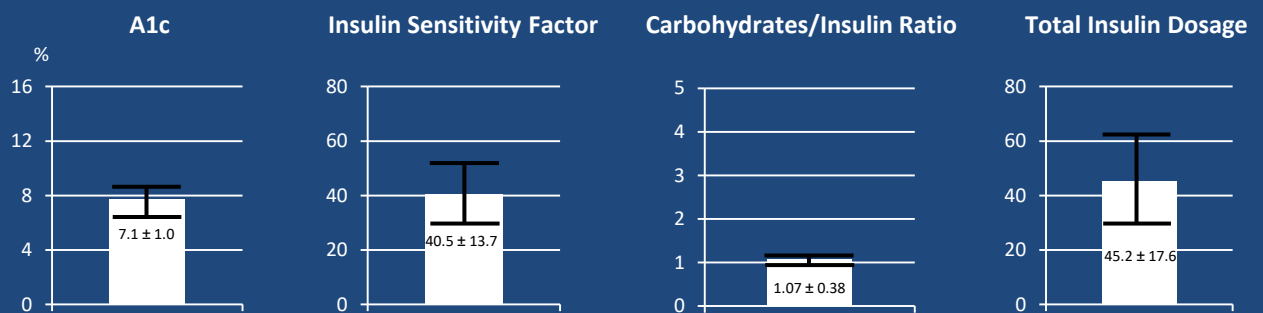


Methods

We collected several treatment parametric values, namely, insulin sensitivity factor, carbohydrates / insulin ratio, daily total insulin dosage and the number of basal insulin rates.

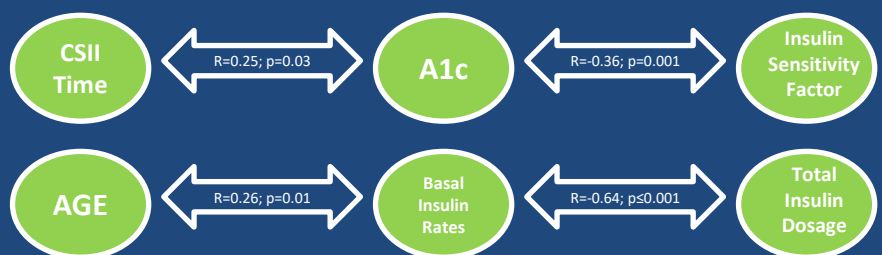
Results

We found the following mean results in the analysed parameters:



Results

We also found the following significant correlations:



Conclusion

The number of basal insulin infusion rates appears to increase with age across the CSII therapy. Patients with more time on CSII utilization tend to have higher A1c. In this sample we also found that patients with higher ISF achieve lower A1c levels.