



# Continuous intersticial glucose monitoring in early detection of glucose tolerance abnormalities in adolescents with cystic fibrosis.

Jacobo Perez; Raquel Corripio; David Belver; Oscar Asensio\*; Montserrat Bosque\*; Josefa Rivera Pediatric Endocrine Department. \*Pediatric Pulmonology Department. Cystic Fibrosis Unit. Pediatric Service. Parc Taulí Sabadell, Hospital Universitari. Barcelona. Spain

#### Introduction

Cystic fibrosis-related diabetes (CFRD) and glucose abnormalities have a negative impact on pulmonary function and survival in cystic fibrosis (CF) patients. Oral glucose tolerance test (OGTT) is the screening test of choice for CFRD, although undetected high glucose levels can be missed with this test. The use of a continuous interstitial fluid glucose monitoring system (CGM) can be useful in these patients.

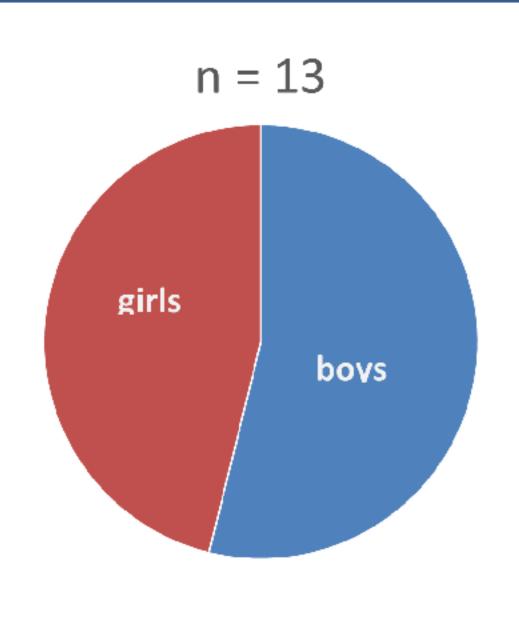
## Objective

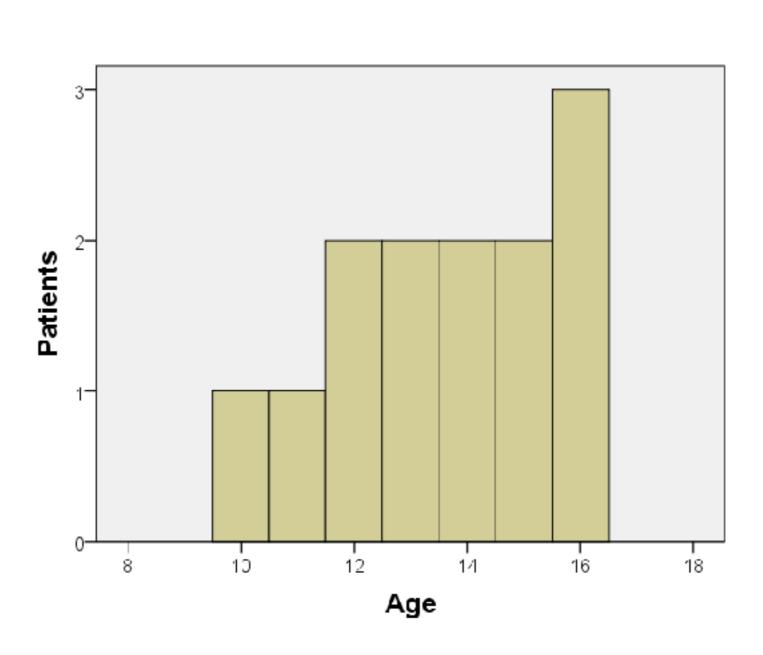
To determine the role of CGM in the early detection of glucose abnormalities in CF.

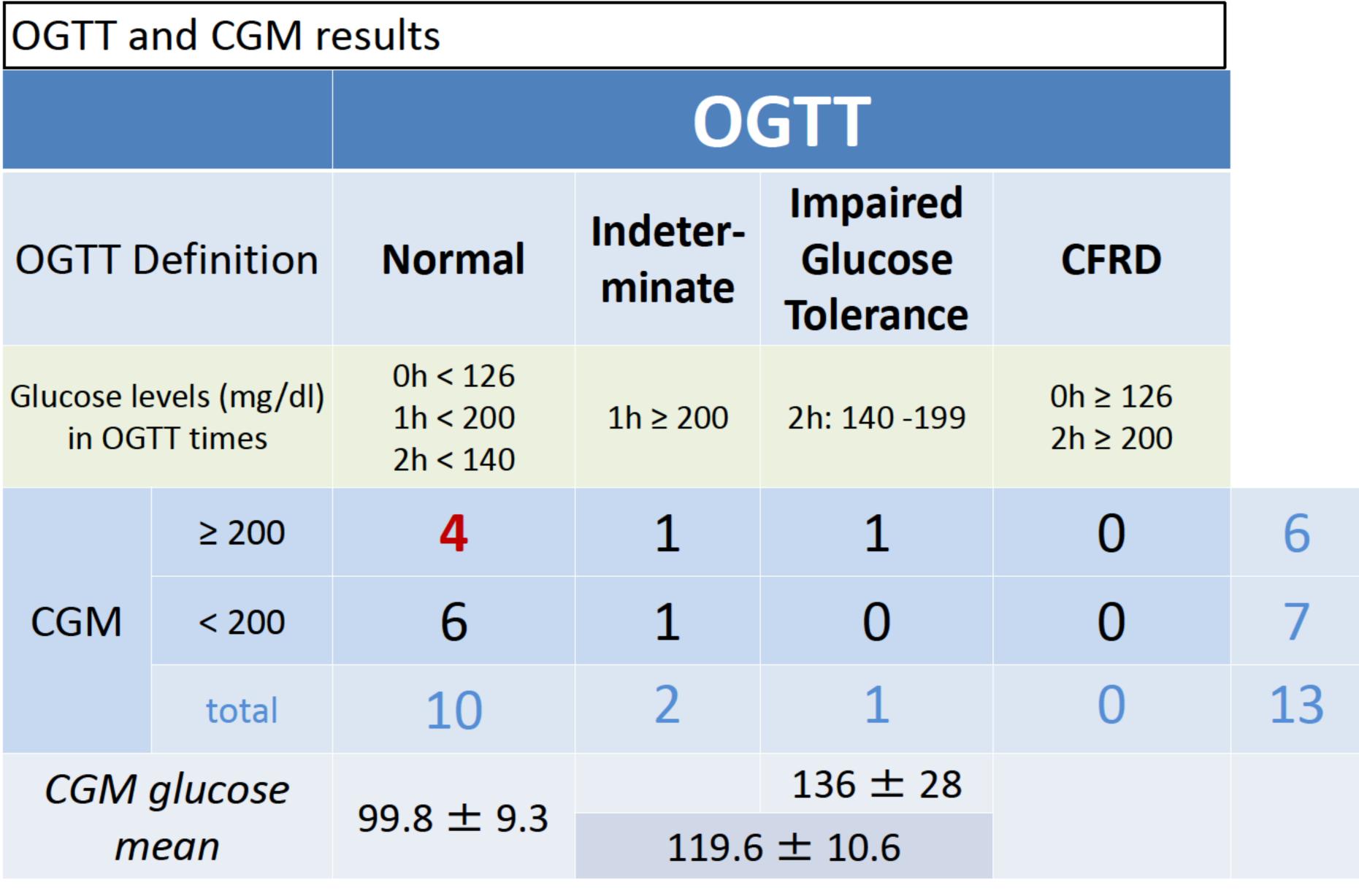
## Methods

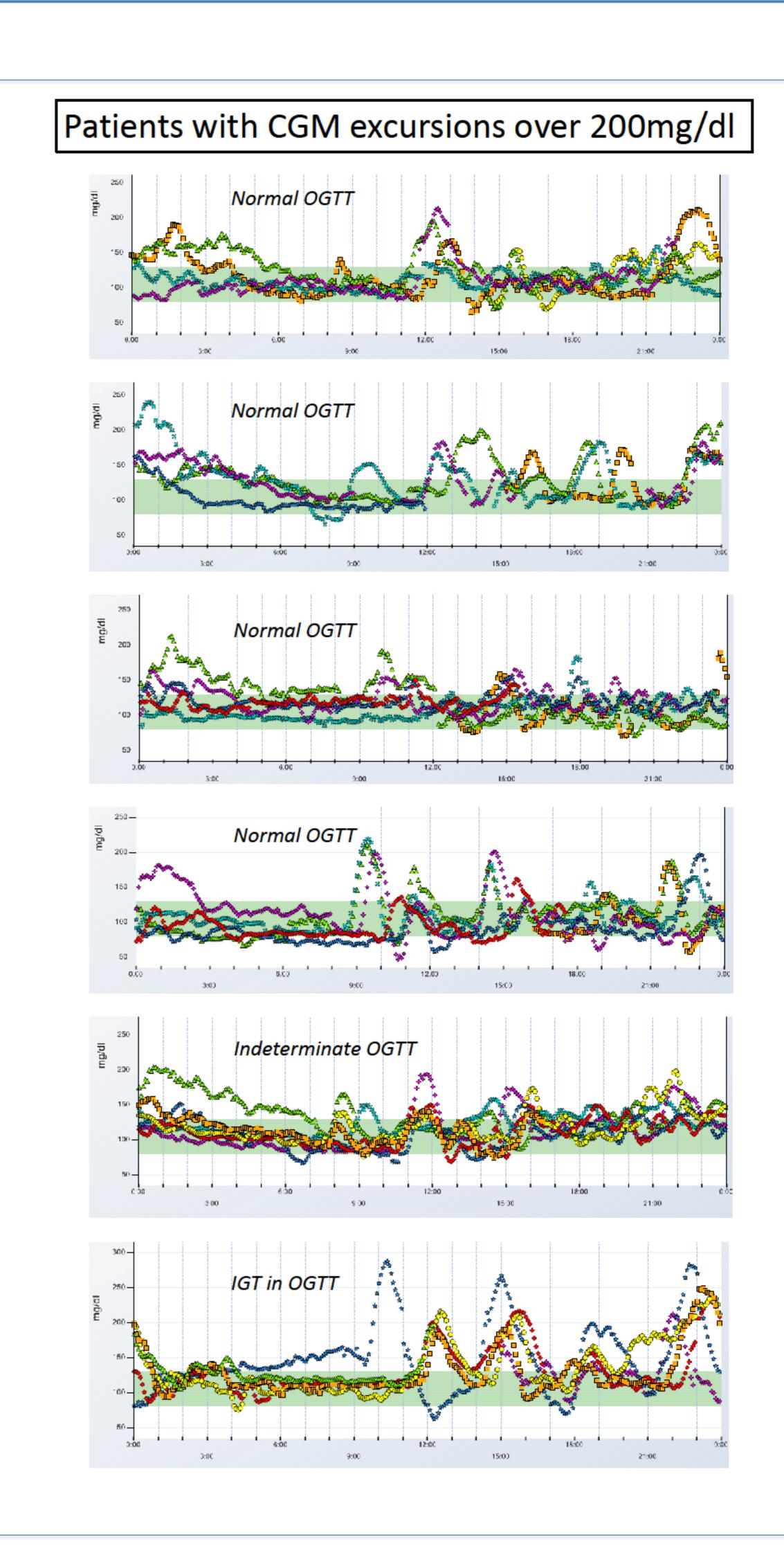
- Inclusion: CF children 10 to 17 years old without diabetes.
- Exclusion: Infections / corticosteroid treatment course last 6 weeks.
- Review: OGTT in the last year.
- CGM system was placed during five days.

#### Results









## Conclusions

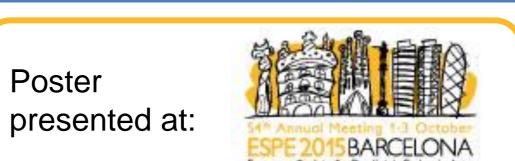
Jacobo Perez

- o CGM could be a useful tool to detect glucose excursions in CF children with normal OGTT.
- o The CGM systems are a comfortable way to detect hyperglycemia in a real situation.
- o It is still unknown how the development of CFRD in these patients with impaired glucose can be delayed.

Parc Taulí Sabadell, Hospital Universitari. Parc Taulí s/n, 08208 Sabadell (Barcelona) - 93 723 10 10 - jperezs@tauli.cat

DOI: 10.3252/pso.eu.54espe.2015

\$\frac{9}{699}--P3 Diabetes 1







Poster