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# Introduction

The Belgian-Luxembourg register of patients treated with growth hormone contains longitudinal data of patients from the age of first treatment to adulthood. Dr. Becker’s research group (CHL, Dr. Marianne Becker Pediatrician, Diabetologist/Endocrinologist) is the BESPEED association, Belgian society for pediatric endocrinology and diabetology. They extracted the data from patients treated under the indication SGA (small for gestational age) from the Belgian-Luxembourg register of patients who are treated with growth hormone and Dr. Thomas (a Belgian data manager) prepared the patients in a cleaned Excel file. This is a group of about 300 patients.

# Objective

Understand the factors that influence the success of growth hormone therapy.

# Methods

Subjects are included from the age of 4 years in the registry when they receive their first growth hormone treatment and are followed until they reach adult height. The main criterion is the height expressed in z-score on the basis of the Belgian population (reference population). A general linear model will be used to evaluate the effect of 10 variables including age of first treatment (effect of early or late treatment) on adult height. Post-hoc comparison tests will be performed for the variables of interest (early or late treatment) in order to quantify their effect.