

Close cooperation with colleagues from Nottingham bring creation of the proposal for international project HORIZON 2020.

Title of Proposal: Synthesis of evidence around screening practices to identify pre-diabetes in children and interventions to prevent subsequent onset of type 2 diabetes. Pre-Diabetes In Children.

Abstract: Type 2 diabetes mellitus is a serious and debilitating chronic condition that is on the increase amongst children worldwide. This condition has negative and costly implications for health services and individuals. There is to date no consensus as to which screening programmes work best and for children who have been diagnosed with T2P-DM there is a lack of evidence for preventing subsequent onset of type 2 diabetes. These issues can be resolved by this timely and unique synthesis of evidence for screening and prevention programmes for T2P-DM in children. This proposal will undertake a range of systematic reviews to inform guidelines and policy in this area.

This programme of work consists of five work packages to:

1. synthesise evidence to evaluate the accuracy and cost effectiveness of existing screening practices for T2P-DM in children
2. synthesise evidence to evaluate the effectiveness and cost effectiveness of interventions to prevent subsequent onset of type 2 diabetes in children with pre-diabetes
3. synthesise qualitative evidence to explore:
  - i. health providers' views of factors influencing effective detection and diagnosis of T2P-DM in children;
  - ii. the experience of children and their parents/carers of receiving a diagnosis of pre-diabetes/metabolic syndrome/insulin resistance;
  - iii. parent and children's experiences of participating in type 2 diabetes intervention prevention studies.
4. bring together both quantitative and qualitative evidence in a mixed method review
5. evidence translation, including dissemination and guideline development

This programme of work involves the collaboration of five European countries with expertise in systematic reviewing and childhood diabetes. The research team comprises a mixture of novice and senior researchers to ensure capacity building in evidence-based health care in diabetes in Europe.