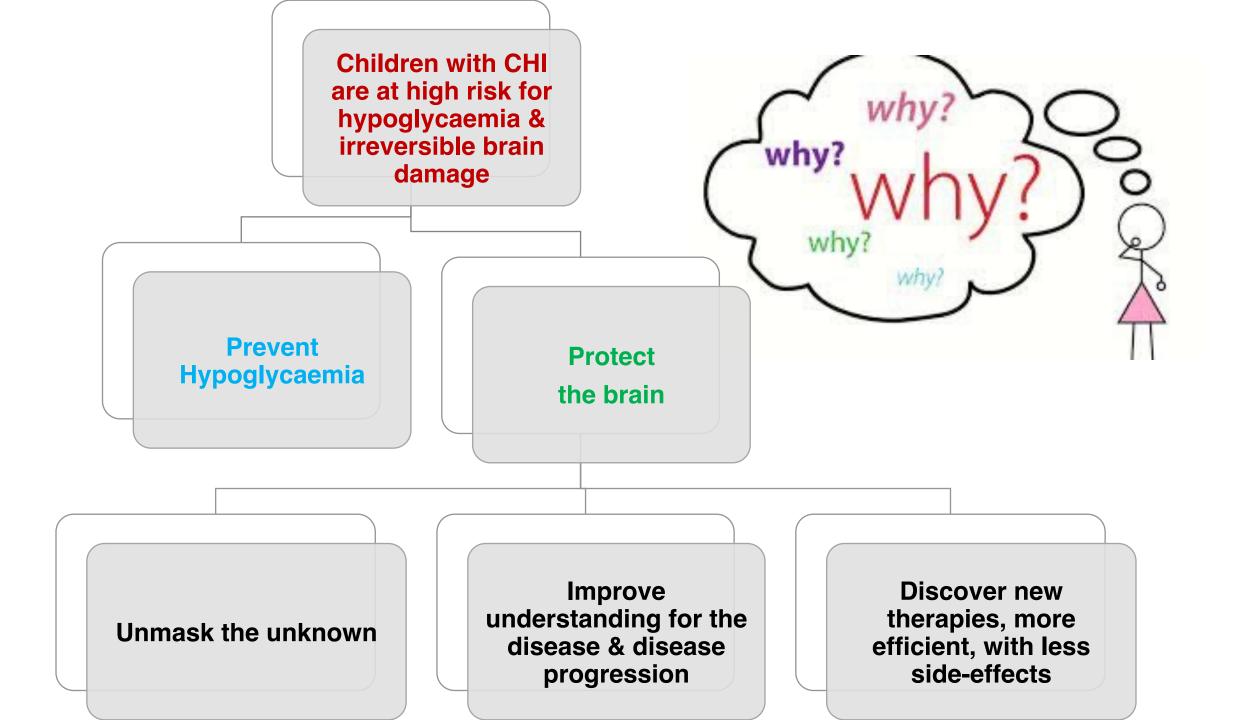


Research in Congenital Hyperinsulinism







| Mechanism | Genes |
|------------|-------------------------|
| | Syndromes |
| Diagnosis | Insulin assay |
| | Imaging of the pancreas |
| Monitoring | Blood glucose levels |
| Treatment | New medications |
| | Surgical techniques |
| | |



Centre with expertise & experience in the CHI management

High quality of care through an MDT approach

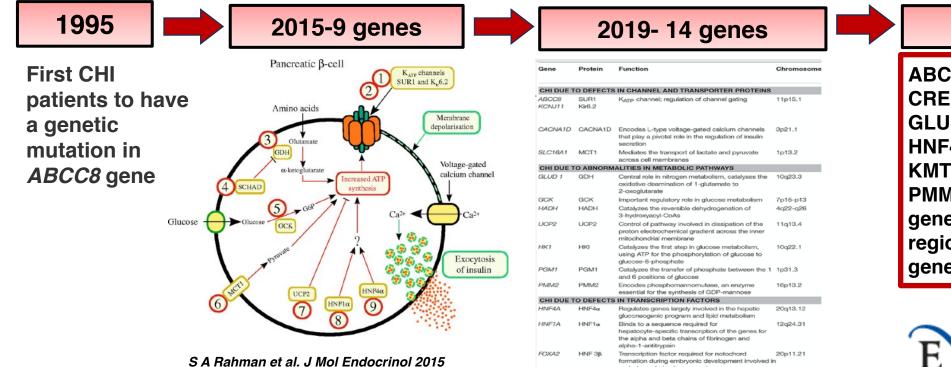
Access to all required specialties

Deliver research in a safely manner

Careful follow up of the protocol and data collection

Commitment

Mechanism



Galcheya S et al.. Front. Endocrinol.2019

endoderm-derived organ system

2023-23 genes

ABCC8, AKT2, CACNA1D, CREBBP, EP300, FOXA2, GCK, GLUD1, GPC3, HADH, HNF1A, HNF4A, INSR, KCNJ11, KDM6A, KMT2D, MAFA, NSD1, PHOX2B, PMM2, SLC16A1 and TRMT10A genes and non-coding regulatory region of HK1 by targeted next generation sequencing



~ 45-50% Negative Genetic Testing



If we unmask:

- ✓ Estimate Disease Progression
- ✓ Accurate Genetic Counselling
- ✓ Develop New Therapies

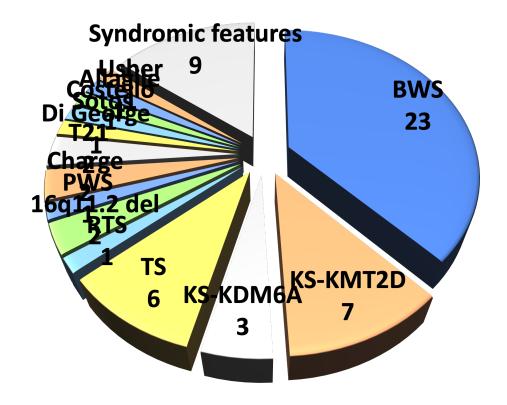
✓ Repeat genetic testing every

- few years to include new genes
- Exeter Research program

www.exeterlaboratory.com

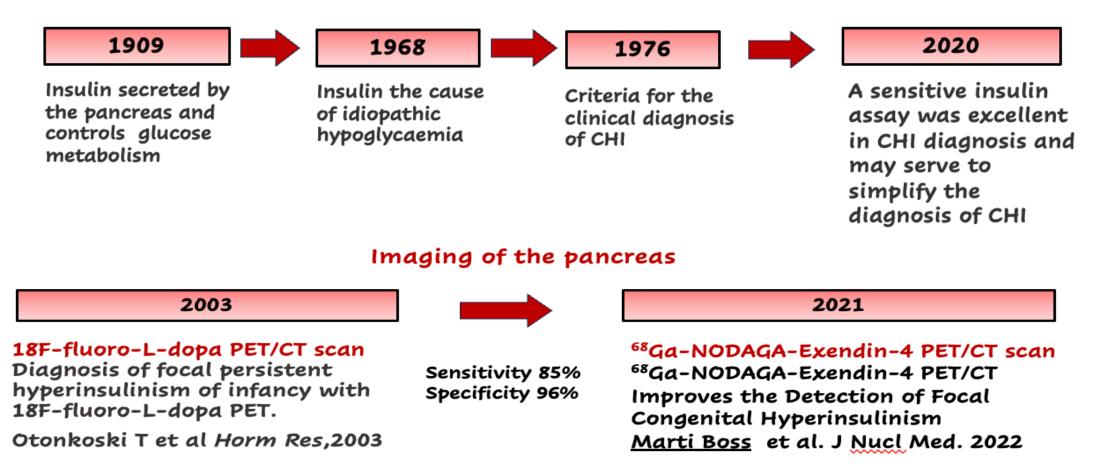


Syndromic Forms of Hyperinsulinaemic Hypoglycaemia A 15-year follow-up Study Clin Endocrinol (Oxf). 2021



Diagnosis

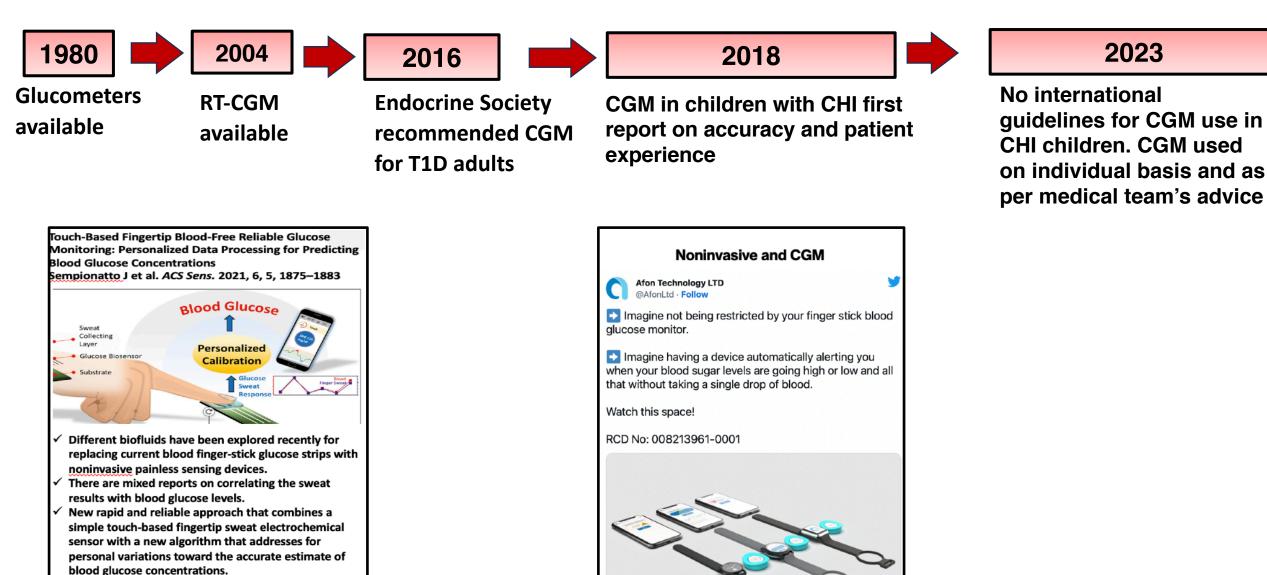
Insulin



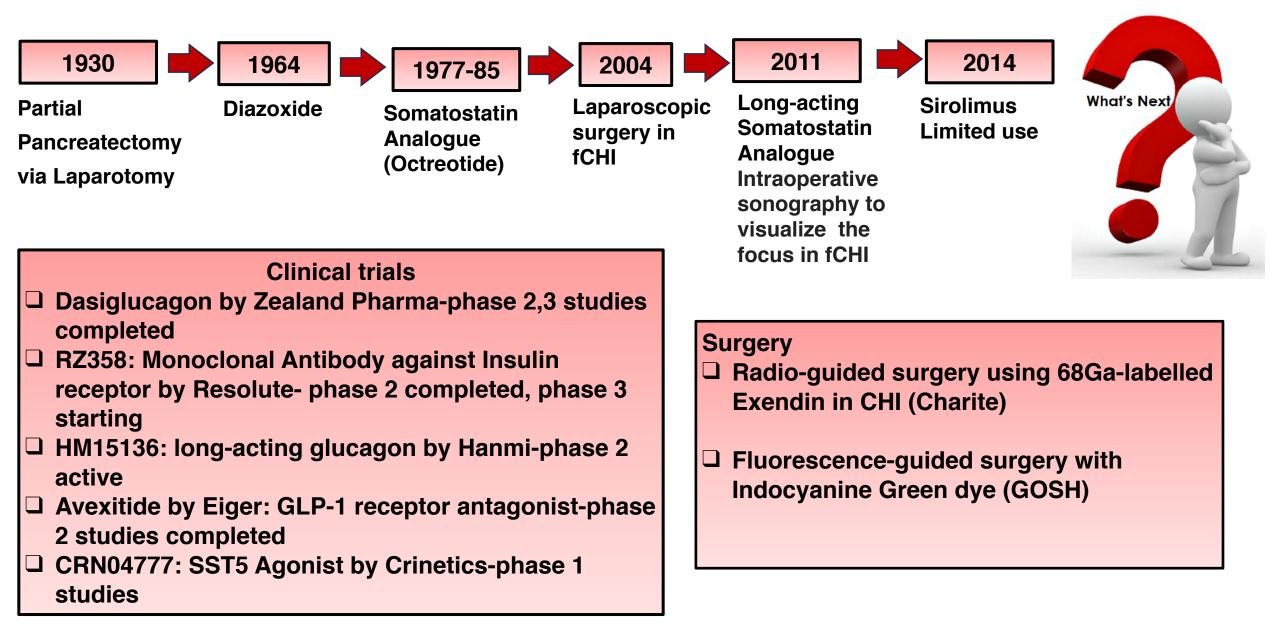
Research for new radiotracer to detect focal CHI might provide sufficient image quality for interpretation and improve outcome of lesionectomy

Monitoring

Blood glucose



Treatment



Take home message

If you are a parent of a CHI child or a CHI patient yourself and interested in what studies are available to you to participate, ask your clinical team about research taking place. They will know if there are any studies available to be offered to you or your child

