**Introduction**

- FH is an autosomal co-dominant condition that leads to high blood cholesterol from birth.
- PASS software developed for NHS Wales and adapted for NHS England.
- Purpose is to register FH patients/families and manage FH services, particularly family cascade testing.
- Genetic test results added directly onto the system via participating labs (Bristol & Newcastle genetics laboratories).
- PASS standardises clinical and operational data collection between centres and allows services to be evaluated locally and nationally.
- Geographical Information System (GIS) software can be used to map FH diagnoses.
- Data presented in this way allows visualisation of regions where FH services are yet to be established and may help identify areas for future clinical development.

**Who uses PASS?**

- **WALES:** 75 licenses funded through HEART UK. Used by BHF funded FH services in 23 NHS Trusts & non-BHF funded FH services in 3 NHS Trusts. Hosted on N3 network.
- **SCOTLAND:** Use a different system.
- **NORTHERN IRELAND:** About to start using PASS.

**Key Features of PASS**

- Pedigree drawing function
- Workflow management
- Template letters and archiving
- Multisite working
- Audit, research & reporting
- Integration with FH genetics labs.

**Heat maps illustrating FH genetic diagnoses before and after BHF investment**

**BEFORE**
- Plymouth Lipid Clinic
- Dundee: FH nurse: 02/2015
- Bristol & Bath: 2 BHF funded nurses: 07/2014

**AFTER**
- London: 6 BHF nurses: 2 at Royal Free, 4 at Brompton & Heartland
- Sheffield: 2 BHF nurses: 09/2014
- North East: 2 BHF nurses: 08/2015
- Yorkshire and Humber: 4 BHF nurses: 08/2015

**Mutation positive FH patients in PASS**

- **1433 indexes (261 VUS)**
- **1154 relatives (135 VUS)**

**England prior to BHF investment**

- 427 indexes (204 VUS)
- 249 relatives (9 VUS)

**England post BHF investment**

- 477 index (73 VUS)
- 411 relatives (35 VUS)

**BHF Funded Service**

- 1433 indexes (261 VUS)
- 1154 relatives (135 VUS)