# Sudden Cardiac Arrest Pilot Pathway

DNA Storage and ICC/Genetics referral

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## The What, The Why, The How

Why are we doing the project?

What is the project?

How are we implementing it?

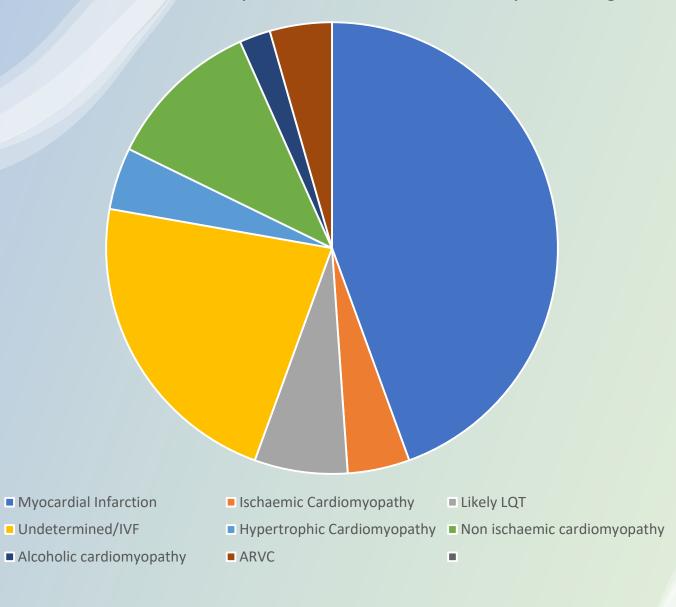


# Elizabeth's Story





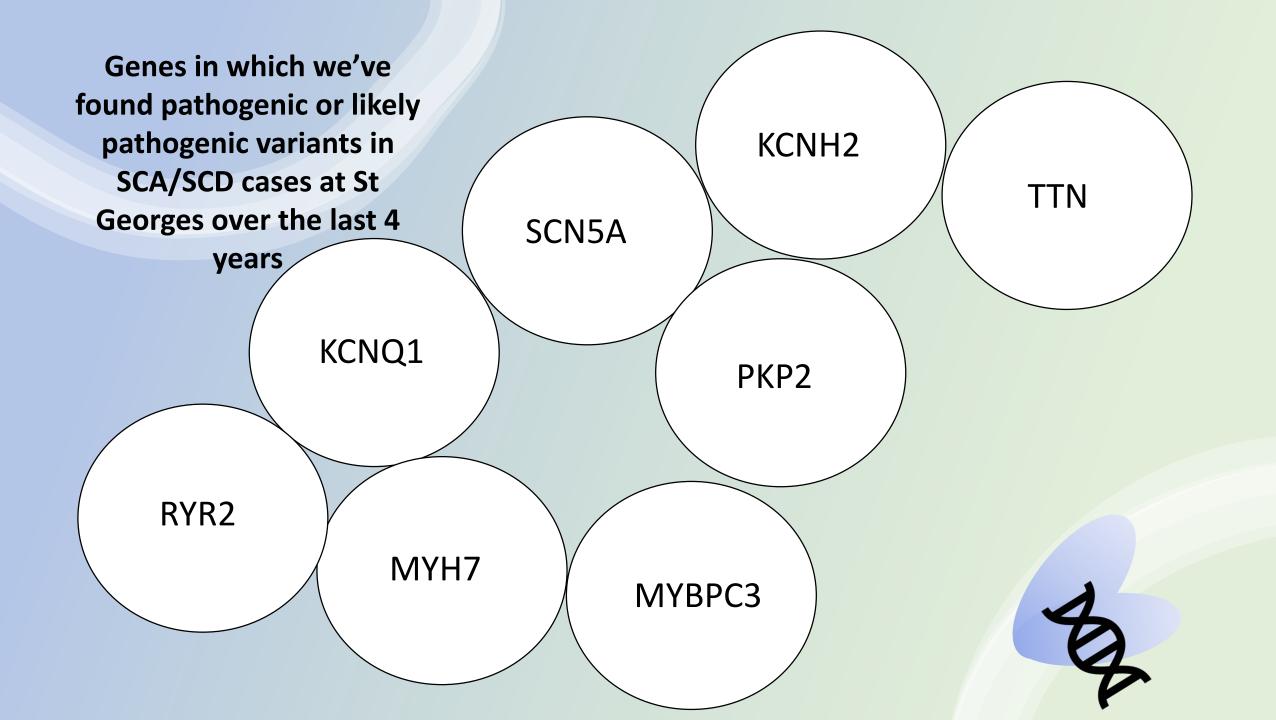
#### Causes of Out of Hospital VF/VT Arrest under 60 years of age



Cases from St George's Hospital Jan'22 – Sept '22



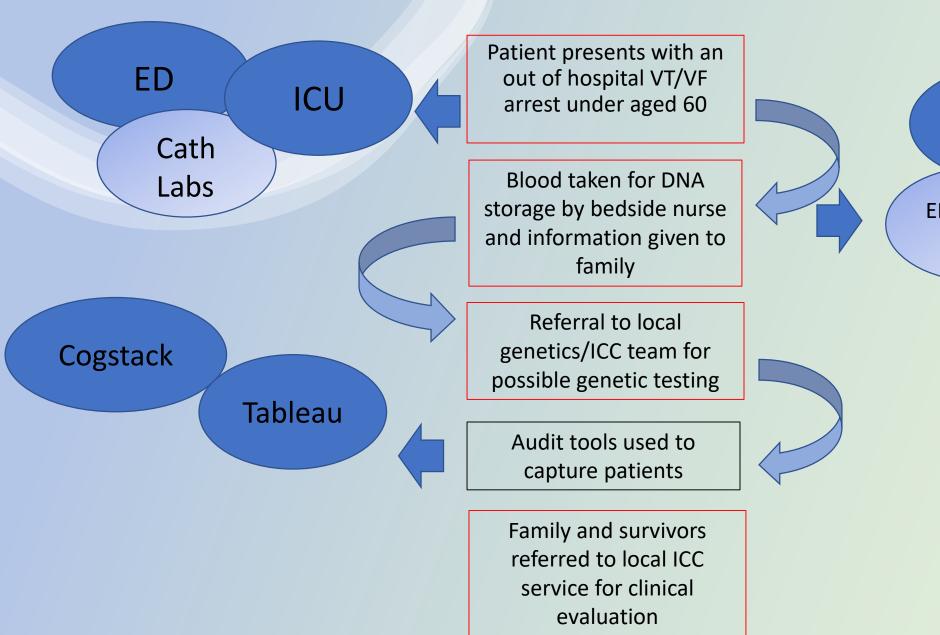
- 46 VT/VF OOHCA under aged 60 or below in the last 10 months
- Of the 22 non ischaemic causes eligible for genetic testing, 10 died and 12 survived
- None of the 10 cases had DNA stored or were referred to ICC and no family members have been referred to SGUH
- Of the 12 survivors, 3 had inpatient genetic testing and a further 4
  were referred to ICC as an outpatient (2 have subsequently been seen
  and genetic testing sent)
- None of the CAD patients had been referred to our FH clinic

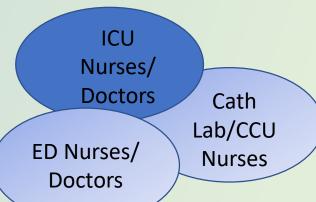


### Aims of the Project

- Consistent sample retention
- Consistent onward referral for patient and families
- Better communication with families
- Improved diagnosis accuracy
- Improved patient and family experience
- Possible inclusion of the ICC Coordinator role embedded within ICC services









#### Where?

- St Georges University Hospital
- Frimley Park Hospital
- Guys and St Thomas' NHS Foundation Trust
  - St Thomas' Hospital
  - Kings College Hospital
  - Royal Brompton Hospital

If successful, for further roll out to other trusts



#### How?

- Collaboration with ICU leads and matrons
- Education of ICU/ED nurses
- Collaboration with GLH/labs
- Close working with Cardiology teams
- Working closely with ICC teams and cardiac genetic counsellors/consultants
- Simple pathway adapted to different trusts
- Audit and data capture
- Evaluation
- Roll out



#### **Education and Awareness**

- Audio powerpoints for circulation
- Presenting on ICU study days cross site
- Bedside teaching
- Collaboration with Intensive Care group
- Collaboration with Cardiology
- Posters
- Ongoing engagement

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If you would like to find out more or be involved in the roll out of the project please do get in contact



## Challenges

- Logistics of referrals and DNA storage
- New IT systems
- Staffing pressures
- ICC/Genetics capacity
- Inappropriate storage
- Giving results/cascade screening



## Questions?

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