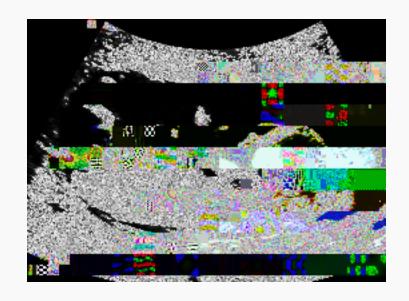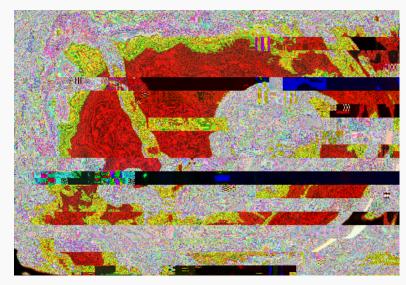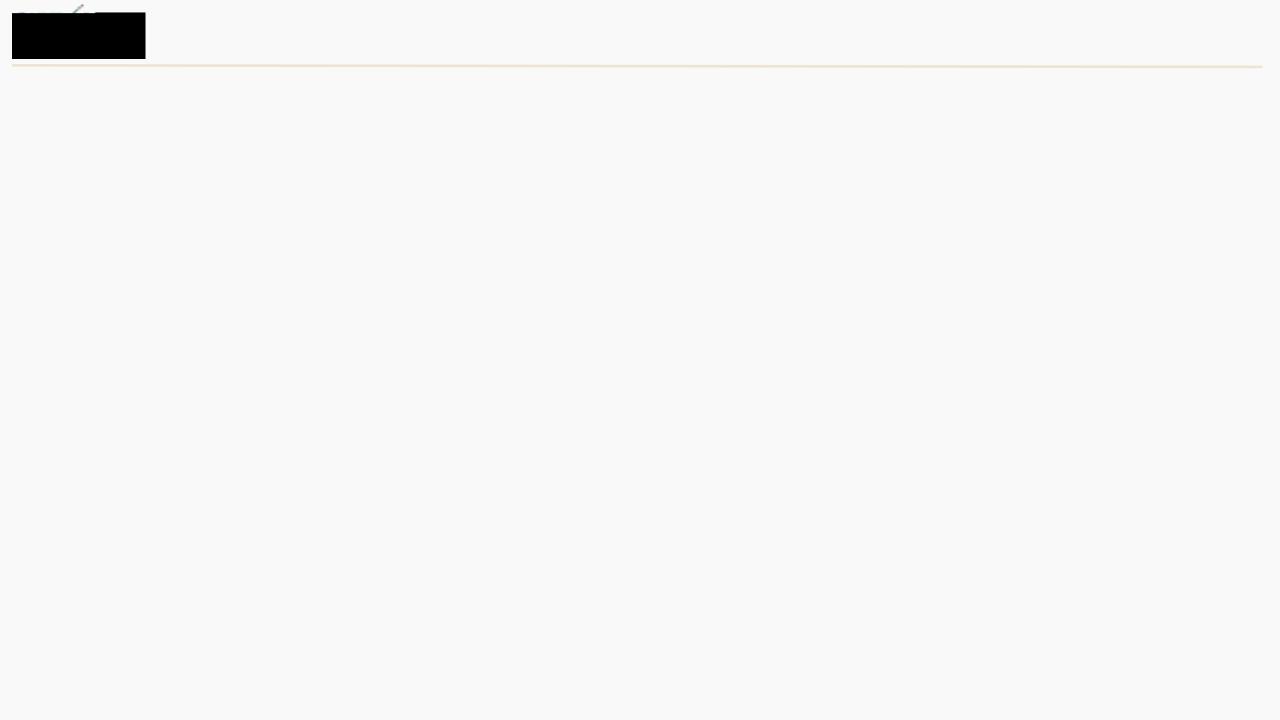# DATA SHARING WITH GIFT-CLOUD

Tom Doel

BACKGROUND: FETAL THERAPY

- 1 in 100 babies are born with a severe medical condition

- Huge improvement in outcome if the condition is treated before birth

- New surgical techniques offer safer and more effective treatments

CLINICAL DATA

- Imaging data will guide the development, testing and evaluation of our software

- We will collect data from three hospitals in UK and Belgium

- ~1000 patients, ~1 million images

- Sensitive data – must protect patient confidentiality

- Data sharing must not be a burden to the clinician

GIFT-CLOUD

- Data sharing and collaboration platform
- Extensible system linking three hospitals and two universities
- Simplifies data anonymisation and upload
- Direct upload from hospital systems
- Comply with legal and institutional requirements for data collection and sharing
- Groups data by subject while preserving anonymity
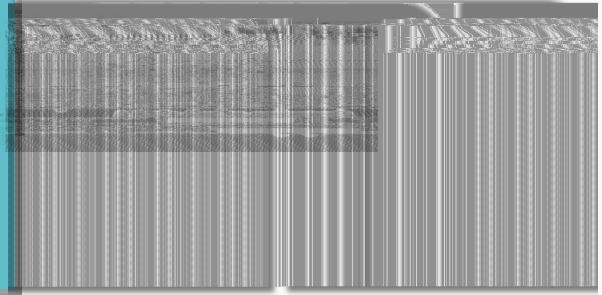- API for integration with analysis software

ANONYMISATION

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Technical issues

- Anonymisation
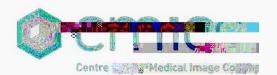- Encryption
- Security of data server

THANKS

www.gift-surg.ac.uk