



# Guidelines for the Genetic Analysis of Solid Tissue Samples

### Available Genomic Tests

 Microa rray (SNP based microarray platform) - this is the principal test and will detect whole chromosome gains or losses, segmental imbalances throughout the genome to a high resolution, and other genomic conditions observed in pregnancy loss referrals (e.g. triploidy, molar pregnancies, uniparental isodisomy, degrees of maternal ta7 o

R22 - Fetus with a likely chromosomal abnormality.

x R412/R27 - Fetal anomalies with a likely genetic cause (non-urgent).

Please note that we do not process:

- x Confirmation of an abnormal cytogenetic prenatal diagnosis.
- x First or second trimester unexplained 1st or 2nd miscarr

### **Microarray**

x 3<sup>rd</sup>



x All processed samples will have DNA extracted and stored (this will include R412 indications which may be eligible for WGS (R27), WES or Large Panel testing in the future, following multidisciplinary review and clinical geneticist approval).

x Samples received following sudden unexplained infant death, including coroner cases, will have DNA extracted and stored but will not be processed for testing unless testing has been specifically requested or a likely genetic cause indicated.





## Instructions for Sending S amples

#### I. General requirements

- x Please do not place samples in fixative.
- x Please forward as soon as possible following collection, but if there is delay, store at 4°C. Do not freeze, expose to excess heat, or store in fixative.
- x Please ensure that packaging conforms to HSE packing Instructions P650 (see www.hse.gov.uk/cdg/pdf/infect-subs.pdf).
- x Tests are principally DNA based.
- For cell culture viable cells are required. Suspend samples in tissue culture media\* or sterile isotonic saline and send without delay.

#### Pregnancy loss referrals II.

For ERPC (Evacuation of R etained Products of Conception) samples , separate the solid tissues and transfer to a dry, sterile, leak proof container. Please do not send in the pr ocedure evacuation container .

POC	Solid tissues only	In dry, sterile, leakproof container
Placental biopsy (chorionic villi)	At least 2cm <sup>3</sup> taken adjacent to the cord insertion site to ensure it is the fetal side	In dry, sterile, leakproof container

