



Subfertility Genetic Analysis

Our regional genetics laboratory uses a combination of traditional cytogenetics and state of the art molecular cytogenetic and molecular techniques for investigation of subfertility. We employ different testing strategies according to the referral indication in order to optimise diagnosis and provide a cost effective service.

Recurrent miscarriage:

Products of conception are tested using a combination of **QF-PCR** (quantitative fluorescent PCR) and **aCGH** (array comparative genomic hybridisation). This strategy allows rapid detection of common aneuploidy syndromes and high resolution analysis of the whole genome for other chromosome imbalance. Our success rate is 97% compared to 70% for traditional karyotyping. This approach is cost effective, provides more useful information than karyotyping for the management of couples with recurrent miscarriage and is in line with RCOG guidelines.

Infertility:

- **QF-PCR** - is a very cost effective test to confirm or exclude **Klinefelter syndrome** with a reporting time of 3 working days.
- **G-banded chromosome analysis** (karyotyping) - for detection of balanced chromosome rearrangements that may disrupt gamete production.
- **Y-chromosome microdeletion testing** - responsible for up to 10% of male infertility.
- **CFTR mutation testing** is available for males with congenital absence of the vas deferens or unexplained obstructive azoospermia.

Viapath offers a fully comprehensive repertoire of other non-genetics tests for the investigation of infertility and recurrent miscarriage.

Subfertility Genetic Analysis

Methodology	QF-PCR, aCGH, G-banded chromosome analysis, Y-chromosome microdeletion testing, CFTR mutation testing
Address to send samples	Genetics Laboratory Viapath 5th Floor Tower Wing Guy's Hospital Great Maze Pond London SE1 9RT
Service Delivery Manager	Richard Hall Richard.hall@viapath.co.uk Tel: 020 7188 1709
Download referral form at:	http://www.gsts.com/cytogenetics-laboratory.html
Samples accepted	Products of conception, fetal tissue, blood samples (in lithium heparin and/or EDTA)
Additional information/special sample instructions	For sample and shipping information please contact the laboratory
Turnaround time	QF-PCR - 3 working days, aCGH - 21 days, G-banded chromosome analysis - 14 days, Y microdeletion - 14 days, CFTR 10 days
Arrange in advance	For new customers please contact the laboratory prior to sending samples
Cost	On application (discounts could be available for significant workloads) <i>The Genetics Department at Guy's Hospital is at the forefront of developing, validating and introducing the latest genetic techniques and has a proven track record for diagnostic service development leading to improvements in patient care. We have an extensive repertoire of genetics tests and are committed to providing a high-quality, cost-effective diagnostic service to patients.</i>

Viapath provide a high quality clinical diagnostic service, offering one of the most comprehensive specialist pathology test portfolios in the UK across all pathology disciplines: **Genetics, Biochemistry, Haematology, Histopathology, Immunology, Microbiology & Virology**. Our recent major re-development programme included investment in a state-of-the-art Blood Sciences Laboratory on our King's College Hospital site, one of the largest integrated automated laboratories in Europe. For more information about our full range of specialist tests, consult our websites at www.viapath.co.uk.

We are part of **King's Health Partners**, one of the UK's first **Academic Health Sciences Centres**.

Quality Accreditations

All our laboratories are accredited to CPA standards and JACIE standards where applicable. Our pathology services are regulated and licensed by the Human Tissue Authority (HTA) and the Medicines and Healthcare products Regulatory Agency (MHRA).

For more information on how we can support all your specialist & routine pathology needs, consult our websites, contact Senior Business Development Manager **John Roberts** on **07766 205 577**, or E-mail john.roberts@gstt.nhs.uk.



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High quality, clinically excellent, cost effective pathology services.