

Freedom of Information 36498 Request Molecular diagnostic tests for cancer diagnosis

I am writing to request a comprehensive and up to date list of all molecular diagnostic tests used for cancer diagnosis that have been performed externally over the last three years, meaning tests sent to specialist laboratories or companies outside the Trust.

For all cancer related molecular diagnostic assays referred externally during this period, across Molecular Pathology, Cellular Pathology, Haematology, and any other relevant departments—please provide the following information:

| Service Providing Cancer Related Diagnostic Assay | Test Name | Clinical Indication | Technology or methodology used (e.g., NGS, PCR, IHC, FISH, cDNA) | Accreditation or regulatory status, including whether the test is UKAS-accredited or CE-marked |
|---|-------------------------------|---|--|--|
| Exact Sciences | ONCOTYPEDX | To assess recurrence risk in breast carcinoma. | PCR | CE-Marked IVDR |
| HMDS Leeds | lymphoma FISH | To detect lymphoma-related genetic rearrangements (BCL2, BCL6, MYC, etc.). | FISH | UKAS Accredited |
| HMDS Leeds | IRF4 FISH | To identify IRF4 rearrangements in large B-cell lymphomas. | FISH | UKAS Accredited |
| HMDS Leeds | MYC-IGH FISH | To detect MYC translocation characteristic of high-grade B-cell lymphoma. | FISH | UKAS Accredited |
| HMDS Leeds | Cyclin D1 | To confirm mantle cell lymphoma. | ICC | UKAS Accredited |
| HMDS Leeds | T-cell clonality | To assess T-cell receptor gene rearrangement in suspected T-cell lymphoma. | PCR | UKAS Accredited |
| HMDS Leeds | TCR gene rearrangement | To confirm T-cell monoclonality in suspected lymphoma. | PCR | UKAS Accredited |
| HSL 60 Whitfield Street London W1T 4Eu | HTS | To perform high-throughput sequencing for tumour mutation profiling. | PCR | UKAS Accredited |
| HSL 60 Whitfield Street London W1T 4Eu | T-clonality | To assess T-cell receptor gene rearrangement in suspected T-cell lymphoma. | PCR | UKAS Accredited |
| Manchester Centre for Genomic | BRAC | To detect BRCA1/2 mutations associated with hereditary cancer syndromes. | PCR | UKAS Accredited |
| Newcastle Upon Tyne | Neuroblastoma cytogenetics | To detect chromosomal abnormalities relevant to risk stratification. | FISH | UKAS Accredited |
| Newcastle Upon Tyne | ETV6 | To detect ETV6 rearrangements in haematologic or small round-cell tumours. | FISH | UKAS Accredited |
| NHSCT | HPV Genotyping | To identify high-risk HPV types in dysplasia or carcinoma. | PCR | UKAS Accredited |
| Queen Elizabeth Hospital Birmingham | HER2 | To assess HER2 status in breast, gastric, or other tumours. | FISH | UKAS Accredited |
| Queen Elizabeth Hospital Birmingham | Claudin 18.2 | To assess CLDN18.2 expression in upper GI adenocarcinoma. | NGS | UKAS Accredited |
| Queen Elizabeth Hospital Birmingham | Breast NGS | To profile gene mutations in breast carcinoma. | NGS | UKAS Accredited |
| Queen Elizabeth Hospital Birmingham | GIST molecular testing | To identify KIT/PDGFR α and other mutations in GIST. | PCR | UKAS Accredited |
| Queen Elizabeth Hospital Birmingham | MSI | To detect microsatellite instability indicating mismatch-repair deficiency. | PCR | UKAS Accredited |
| Royal Marsden Hospital | Renal DNA NGS | To identify mutations relevant to renal tumour classification. | FISH | UKAS Accredited |
| Royal Marsden Hospital | NGS panel for uterine sarcoma | To identify mutations specific to uterine sarcoma subtypes. | NGS | UKAS Accredited |
| Royal Marsden Hospital | sarcoma NGS | To characterise gene alterations in soft tissue and bone sarcomas. | NGS | UKAS Accredited |
| Royal Marsden Hospital | DICER1 | To identify DICER1 mutations in tumours associated with DICER1 syndrome. | PCR | UKAS Accredited |
| Royal Marsden Hospital | FGFR3 | To detect FGFR3 mutations in bladder and other tumours. | PCR | UKAS Accredited |
| Royal Orthopaedic Hospital Fountain Trust | GNAS | To detect GNAS mutation in fibrous dysplasia or intramuscular myoma. | PCR | UKAS Accredited |
| St Marys Hospital Manchester | BRAC | To detect BRCA1/2 mutations associated with hereditary cancer syndromes. | PCR | UKAS Accredited |
| St Marys Hospital Manchester | HRD | To assess homologous recombination deficiency in tumour tissue. | PCR | UKAS Accredited |
| Stanmore | SS18 FISH | To confirm SS18 rearrangement in synovial sarcoma. | FISH | UKAS Accredited |
| Stanmore | COL1A1 FISH | To detect COL1A1 rearrangement in dermatofibrosarcoma protuberans. | FISH | UKAS Accredited |
| Stanmore | EWSR1 | To detect EWSR1 rearrangement in Ewing-family tumours or related sarcomas. | FISH | UKAS Accredited |
| Stanmore | FOSB | To identify FOSB rearrangements in epithelioid haemangioma or pseudomyogenic sarcoma. | FISH | UKAS Accredited |
| Stanmore | USP6 | To detect USP6 rearrangements in nodular fasciitis and related lesions. | FISH | UKAS Accredited |
| Stanmore | MDM2 FISH | To confirm MDM2 amplification in liposarcoma. | FISH | UKAS Accredited |
| Stanmore | COL1A1-PDGFR FISH | To detect COL1A1-PDGFB fusion in DFSP. | FISH | UKAS Accredited |
| Stanmore | EWSR1 FISH | To detect EWSR1 rearrangement in Ewing-family tumours or related sarcomas. | FISH | UKAS Accredited |
| Stanmore | NR4A FISH | To detect NR4A3 rearrangements in extraskeletal myxoid chondrosarcoma. | FISH | UKAS Accredited |
| Stanmore | H3-3K36M | To identify H3K36M mutation in chondroblastoma. | PCR | UKAS Accredited |
| Stanmore | CTNNB1- gene mutation | To confirm β -catenin mutation in desmoid-type fibromatosis. | PCR | UKAS Accredited |
| Stanmore | CTNNB1 mutation PCR | To confirm β -catenin mutation in desmoid-type fibromatosis. | PCR | UKAS Accredited |
| Stanmore | CTNNB1 | To confirm β -catenin mutation in desmoid-type fibromatosis. | PCR | UKAS Accredited |
| UCL Institute Of Neuropathology | EGFR | To detect EGFR mutations in lung adenocarcinoma and other tumours. | PCR | UKAS Accredited |
| UCL Institute Of Neuropathology | MGMT | To assess MGMT promoter methylation in glioma. | PCR | UKAS Accredited |
| University Of Birmingham | c-kit/PDGFR α | To detect mutations in GIST to guide targeted therapy. | PCR | UKAS Accredited |
| University Of Birmingham | BRAF | To detect BRAF mutations in melanocytic and other tumours. | PCR | UKAS Accredited |