

Cancer Genetics Referral Criteria



Clinical Genetics Unit

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North East Thames
Regional Genetics Service

- We welcome referrals by nhs.net secure email to gosh-tr.clinicalgenetics@nhs.net
- Alternatively, please post or fax a referral to the North East Thames Regional Genetics service
- If you wish to seek advice about a referral please call the North East Thames Regional Genetics service on 020 7762 6077 or 020 7762 6786 and ask for a member of the cancer genetics team. Alternatively please email gosh-tr.clinicalgenetics@nhs.net
- The individual being referred should be **affected with cancer** (unless otherwise stated)
- All affected relatives should be on the **same side of the family**.
- It is **ESSENTIAL** that all ages of diagnosis are specified in the initial referral
- Please send a completed family history questionnaire with your referral: <https://www.gosh.nhs.uk/clinicalgenetics-appointments>
- Whenever possible please send histology for cancer diagnoses with the referral
- All individuals from a family with a known cancer predisposition syndrome should be referred
- **Fulfilling the referral criteria does not mean a person will be seen in the genetics clinic.**

Key: FDR – first degree relative SDR - second degree relative

Breast and/or Ovarian Cancer

- Breast cancer diagnosed <30yrs
- Triple negative breast cancer diagnosed <60yrs
- Breast and ovarian cancer
- Bilateral breast cancer both diagnosed < 50yrs
- Bilateral breast cancer and a relative diagnosed < 60yrs
- Non-mucinous ovarian cancer
- Male breast cancer
- Breast cancer and Manchester Score* ≥ 15
- Jewish or Polish - affected with breast or ovarian cancer
- Jewish or Polish - with a FDR or SDR (if through the father) with breast cancer <50 years or ovarian cancer, who is not available for testing.
- Unaffected by cancer but family Manchester score of ≥ 17 and no affected relative available for testing

* See opposite for explanation of Manchester scoring system

Manchester Scoring System

Cancer, age at diagnosis	Score
Female breast cancer <30	11
Female breast cancer 30-39	8
Female breast cancer 40-49	6
Female breast cancer 50-59	4
Female breast cancer >59	2
Male breast cancer <60	13
Male breast cancer >59	10
Ovarian cancer <60	13
Ovarian cancer >59	10
Pancreatic cancer	1
Prostate cancer <60	2
Prostate cancer >59	1

Each side of the family to be calculated **separately**

Prostate cancer

- Prostate cancer and Manchester Score* of ≥ 15
- High grade (Gleason score ≥ 7) < 50yrs

* See opposite for explanation of Manchester scoring system

Colorectal and/or Gynaecological Cancer

Immunohistochemistry (IHC) testing for mismatch repair proteins should be conducted in any new diagnosis of colorectal cancer (NICE 2017) and in any endometrial cancer diagnosed under the age of 50 years. Please send IHC reports with the referral.

- Loss of MSH2, MSH6 or isolated loss of PMS2
- Isolated loss of MLH1
- Loss of MLH1/PMS2 and normal methylation or absence of BRAF mutation
- Abnormal microsatellite instability (MSI) in patient
- Colorectal cancer diagnosed <50yrs
- Colorectal cancer and FDR with colorectal cancer average age under 60yrs
- Colorectal cancer and endometrial / ovarian / urinary tract / gastrointestinal tumours at any age
- More than 10 bowel polyps at any age or unusual bowel polyps such as hamatomatous polyps
- More than 5 adenomatous bowel polyps at any age **plus** family history of colorectal cancer and/or bowel polyps
- Synchronous endometrial and ovarian cancer
- Endometrial cancer and FDR with endometrial cancer both diagnosed <60yrs

Renal Cancer

- Renal cancer < 40 years
- Multiple renal cancers in the same individual

Endocrine Cancer

- Medullary thyroid carcinoma
- Two or more endocrine tumours
- Paragangliomas
- Pheochromocytomas
- Parathyroid carcinoma or familial hyperparathyroidism or hyperparathyroidism < 35yrs
- Symptomatic pituitary tumours in children (<18) or pituitary macroadenoma < 30yrs

Other Cancers

- Three or more primary cancers in a single individual
- Any two of sarcoma, breast cancer, brain tumour, leukaemia or adrenal cortical tumour (one must be <45yrs)
- Childhood cancer plus one close relative with cancer
- We run specialist endocrine, renal and paediatric cancer clinics.