

North West Thames Regional Genetics Service

Cancer referral criteria

Breast or ovarian cancer

- Breast cancer diagnosed before the age of 30
- Triple negative breast cancer diagnosed < 60
- Breast and ovarian cancer
- Bilateral breast cancer both diagnosed < 50
- Bilateral breast cancer and a relative diagnosed < 60
- Breast cancer and FDR or SDR with breast cancer both diagnosed < 45
- Non-mucinous ovarian cancer
- Male breast cancer and FDR or SDR relative with male breast cancer or ovarian cancer
- Breast cancer and Manchester Score* ≥ 15
- Ashkenazi Jewish – affected with breast or ovarian cancer
- Ashkenazi Jewish with a FDR or SDR (only if through the father) with breast cancer < 50 or ovarian cancer at any age. Where affected relative is not available for testing.
- Unaffected by cancer but family Manchester score* of ≥ 17 and no affected relative available for testing

Prostate cancer

- Prostate cancer and Manchester Score* of ≥ 15

Colorectal / gynaecological cancer

- Immunohistochemistry (IHC) testing for mismatch repair genes testing should be done in ALL new diagnosis of Colorectal (CRC) - NICE 2017 and endometrial cancer (EC) diagnosed under the age of 50 years.
- Loss of MSH2, MSH6 or isolated loss of PMS2
- Isolated loss of MLH1 or loss of MLH1/PMS2 and normal methylation or absence BRAF mutation
- Abnormal microsatellite instability (MSI) in patient or FDR (who is unavailable for testing).
- Colorectal cancer diagnosed <50
- Colorectal cancer and FDR with Colorectal cancer any age
- Colon cancer and endometrial or ovarian / urinary tract / gastrointestinal tumours at any age.
- More than 10 bowel polyps
- More than 5 adenomatous bowel polyps, at any age, with family history of bowel polyps/cancer
- Unusual bowel polyps such as hamatomatous polyps

- Synchronous endometrial and ovarian cancer
- Endometrial cancer and FDR with endometrial cancer both < 60

Endocrine cancer

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

Other criteria

We also run specialist renal cancer genetics clinic and will accept referrals for patients with renal cancer < 40 years.

You can contact the department for more information about the specialist renal and endocrine clinics.

Any family with multiple malignant melanoma a FDR Kinship (affected relatives who are FDR of each other and one is FDR of the proband).

Any two of sarcoma, breast cancer, brain tumour, leukaemia or adrenal cortical tumour (one must be <45).

Any family with an unusual pattern of cancer in the family, such as: three or more primary cancers in a single individual, more than one close relative diagnosed with a rare cancer at an unusually young age for that type of cancer.

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

[Explanation of Manchester Score overleaf]

*Explanation of Manchester Score

Cancer, age at Diagnosis	Score
♀ Breast Cancer, <30	11
♀ Breast Cancer, 30-39	8
♀ Breast Cancer, 40-49	6
♀ Breast Cancer, 50-59	4
♀ Breast Cancer, >59	2
♂ Breast Cancer, <60	13
♂ Breast Cancer, >59	10
Ovarian cancer, <60	13
Ovarian cancer, >59	10
Pancreatic cancer	1
Prostate cancer, <60	2
Prostate cancer, >59	1
