

## WHAT IS NTRK?

- The NTRK family of genes (NTRK 1, 2 & 3) encode the receptor kinases TRK A, B, & C.
- Fusions of NTRK with other genes has the potential to cause cancer.

## WHAT IS NTRK TESTING?

- Genetic testing can identify NTRK gene fusions in tumour tissue.
- Patients with NTRK gene fusions may be eligible to receive targeted therapy with a TRK-inhibitor (e.g. larotrectinib or entrectinib) as a last-line treatment.

**NTRK TESTING IS NOW AVAILABLE**  
Request it now to find suitable patients who may be able to access another line of NHS therapy!

## WHO CAN HAVE NTRK TESTING?

All 4 NTRK Testing Criteria must be met:

1. Adult or paediatric patient with a histological diagnosis of any malignant solid tumour
2. Performance status 0-2
3. Locally advanced OR metastatic disease OR inoperable disease
4. No satisfactory treatment options AND already received all available NHS-funded SACT (i.e. last line therapy)

## WHEN SHOULD I REQUEST NTRK TESTING?

- Testing can be requested if the 4 NTRK Testing Criteria are met.
- Patient consent is not required.

(Please note: some tumour types have genetic testing performed earlier in the treatment pathway therefore your patient's NTRK gene fusion status may already be known e.g. NSCLC, thyroid, glioma. Please check the previous genetics results in such cases first)

## HOW DO I REQUEST NTRK TESTING?



- 1 Download and complete the appropriate e-request form from the All Wales Medical Genomics Service (AWMGS) website at 'NTRK gene fusion testing for solid tumours': <https://medicalgenomicswales.co.uk/index.php/health-professional-information/a-z-of-services#Solid>

(The request form and how your patient's sample is tested will depend on their type of tumour.)

- 2 Tick 'NTRK testing/NTRK 1, 2 & 3'
- 3 Email the completed form to the local histopathology dept storing the tissue sample.
- 4 The sample is prepared and sent to the All Wales Genomics Laboratory (AWGL) for testing.
- 5 The result is emailed to requesting clinician and uploaded to WCP - within 14 calendar days of receipt by AWGL.



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Contact AWMGS for more information: [Lab.Genetics.cav@wales.nhs.uk](mailto:Lab.Genetics.cav@wales.nhs.uk)

All Wales Clinical Guidance: [https://medicalgenomicswales.co.uk/images/NTRK\\_Gene\\_Fusion\\_Testing\\_Clinical\\_Guidance\\_Document\\_v10\\_-final.pdf](https://medicalgenomicswales.co.uk/images/NTRK_Gene_Fusion_Testing_Clinical_Guidance_Document_v10_-final.pdf)



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