FAQ for the OnCORseq NGS TEST

What is the OnCORseq NGS test?

The OnCORseq Cancer Gene Mutation Panel v2 assay is a targeted test for the identification of clinically significant somatic mutations including single nucleotide variants (SNVs), insertions and deletions (Indels), gene fusions and copy number alterations (CNAs) from DNA and RNA of 143 cancer-related genes (>2,500 amplicons) in solid tumors, using targeted next generation sequencing (NGS). The genes interrogated in the assay are categorized by genomic alterations into 73 hot spot genes (with SNVs and Indels), including 49 genes with focal CNAs, such as ERBB2, and 23 genes with known fusions such as ALK and ROS1 in NSCLC. The test also includes four pairs of 5’, 3’ expression imbalance assays for ALK, ROS1, RET and NTRK1. In addition, the test provides full coverage of 26 tumor suppressor genes. The assay is performed on the Ion Torrent S5 XL NGS system.

Where is the test performed?

The test is performed in the Clinical Genomics Laboratory (NewYork Presbyterian Hospital-Weill Cornell Medicine), (http://pathology.weill.cornell.edu/clinical-services/molecular-and-genomic-pathology/clinical-genomics-laboratory).

How can one order the test?

As per the current procedure for all oncology tests, oncologists can request this test through Surgical Pathology at the time the specimen is sent for diagnosis. Surgical Pathology then orders the test through the Clinical Genomics Laboratory.

Variants with COSMIC ID’s (Catalog of Somatic Mutations in Cancer) present in the OnCORseq test as well as copy number alteration and targeted gene fusions will be reported. The genes in the panel are listed in the table below:
What kind of specimens can be used for testing?

Formalin Fixed Paraffin Embedded (FFPE) tissue biopsies fixed and embedded appropriately are acceptable for testing. The test can also be performed on additional sample types such as Fine Needle Aspirates (FNAs) cell blocks and FFPE core biopsies.

Can the test be performed on tissue specimens from outside hospitals?

Specimens from outside hospitals should be routed through Surgical Pathology. As per the protocol with Surgical Pathology FFPE tissues or cell blocks are preferred as these are necessary for estimating the neoplastic content using a stained section. Alternatively, 20 unstained 5 µm sections along with a H&E stained slide from the same block can be used for testing.

Can we order the test again on new tissue from the same patient (a later biopsy)?

Yes, the test can be ordered again if clinically indicated.

Is there a requirement for a consent form?

We do not test for constitutional/inherited mutations at this point. Therefore, no consent form is needed.

Where is the tissue sent?

Oncologists can request this test through Surgical Pathology at the time the specimen is sent for diagnosis. Tissue specimens that need to be tested should be sent to Surgical Pathology on Starr 10.

How long will it take for results (turn-around time)?

Our estimated turn-around-time is 7-10 business days.

Will results be in EPIC?
Yes, the results for the OnCORseq NGS test will be available in EPIC.

**Can we give results to a patient?**

Results from this test should be treated as any other clinical test result.

**Can we make clinical decisions on the results?**

Results from this test should be treated as any other clinical test result.

**How much will the test cost patients?**

The test will be billed based on specific CPT codes. The reasonable charge for the OnCORseq NGS test is still to be determined, pending the availability of additional AMA (American Medical Association) codes and market

**Who do we contact with questions about the test and results?**

For further information on the assay or for questions on the results of the OnCORseq NGS test please contact the directors of the Clinical Genomics Laboratory:

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