A Pilot Study of Nintedanib in Molecularly Selected Patients With Advanced Non–Small Cell Lung Cancer

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There has been limited benefit with angiogenesis inhibitor drugs in patients with non–small cell lung cancer (NSCLC). This study proposes that patients who are molecularly selected for treatment based on the presence of mutations (*VEGFR1-3*, *PDGFR-A*, *PDGFR-B*, and *FGFR1-3*) will have clinically meaningful benefits with nintedanib in terms of response rate (RR) and progression-free survival (PFS). Furthermore, this investigation plans to perform exome sequencing of paired tumor (pretreatment and posttreatment) to better define molecular marker predictors for response and resistance.

Primary Objective:

- Evaluate RRs in patients with advanced NSCLC with mutations in the target genes for nintedanib

Secondary Objectives:

- Evaluate PFS
- Correlate outcomes with specific mutations
- Further evaluate extreme responders with exome and transcriptome sequencing
- Evaluate the mechanisms of secondary resistance

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ClinicalTrials.gov Identifier: NCT02299141

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NCCN ORP studies typically explore new avenues of clinical investigation and seek answers to important cancer-related questions. All studies are approved and funded through a scientific peer-review process and are overseen by the ORP.

This feature highlights an NCCN study funded through the grant mechanism.

doi: 10.6004/jnccn.2019.0031

For more information on specific trials, including patient selection criteria, use the contact information listed with each study.

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