

Experiences with Mutational Testing in GIST

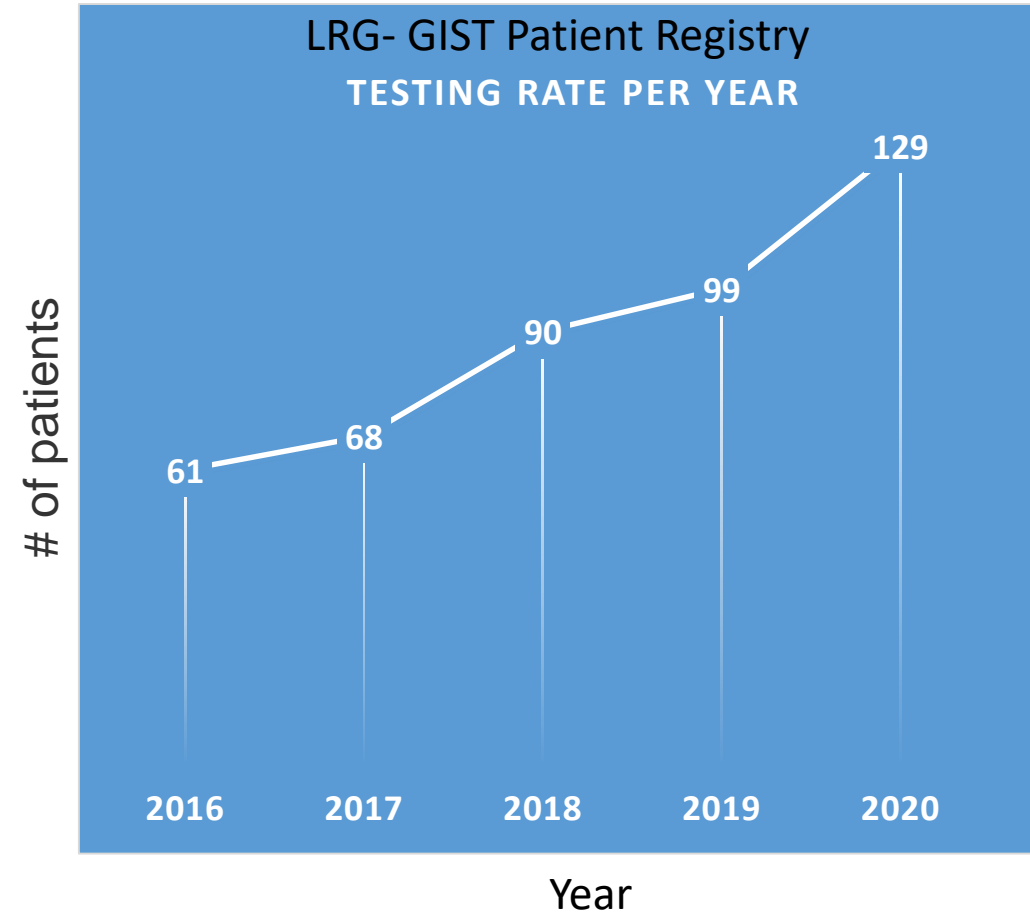
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Mutational Testing

- Mutational testing is widely available in the USA in many states
- The cost of mutational testing varies from \$400 to \$5,000+
- Despite strong guidelines from organizations such as NCCN and CAP recommending testing, the testing rate for GIST patients is very low
- In the US, only **26% of patients** diagnosed with GIST have received mutational testing *1
- **55% of patients** in the LRG patient registry have received mutational testing

Importance of testing :

- ✓ Selection of the appropriate treatment and dosage
- ✓ Substantial impact on overall survival (OS)*1
- ✓ Helps to avoid potentially harmful (and unnecessary) side effects from ineffective treatments
- ✓ Economical impact *2



*1 Florindez, J. & Trent, J. Low Frequency of Mutation Testing in the United States: An Analysis of 3866 GIST Patients. Am. J. Clin. Oncol. 43, 270–278 (2020)..

*2 Cost-effectiveness Analysis of Genetic Testing and Tailored First-Line Therapy for Patients With Metastatic Gastrointestinal Stromal Tumors

Barriers/Limitations for Mutational Testing

- LRG conducted a mutational testing survey in 2020
- Assessed the barriers that may have an impact on patients' ability to receive mutational testing
- **295** patients/caregivers participated from all over the world



CARE MANAGEMENT
TREATING PHYSICIAN &
HOSPITAL



PATIENT
AWARENESS/KNOWLEDGE
OF TESTING



COST OF TESTING



SPECIMEN AVAILABILITY
(BIOPSY, SURGERY, ETC.)

The Life Raft Group Efforts to Increase Testing

Biomarker Testing Campaign

- “It’s time” campaign aims are to improve the understanding of biomarker testing in the cancer community and increase the number of patients tested

Tissue Testing Initiative

- NGS testing to all USA patients that have not received basic or advanced testing
- Facilitated Next Generation Sequencing (NGS) for 45 patients in 2020

Increasing Awareness to Empower GIST Community to Receive and Prescribe Testing

- Hosted webinars with key stakeholders to highlight the importance of testing
- Created materials and resources to educate patients about the importance of testing
- Publishing peer review publications with data from our patient registry and surveys
- Working on educating and informing payers about the economic value of testing

Medical Advisory Board

- Endorsed a mutational testing declaration to call attention to the physician community to raise their voices with the goal of creating an optimal standard of care for all GIST patients.

Patient Assistance within Patient Registry

- GIST patient registry provides support to USA and international registry members by reading and explaining highly advanced mutational reports
- Connect patients to GIST specialists
- Provide information about the process of testing as well as connect to a laboratory that would perform testing for USA and international patients

Increasing Collaborations Among Institutions

- Continue our efforts to build strong relationships among institutions and advocacy groups to help us raise our voices toward our goal of increasing testing rates