

# OvaNext Identifies More Patients with Hereditary Ovarian Cancer

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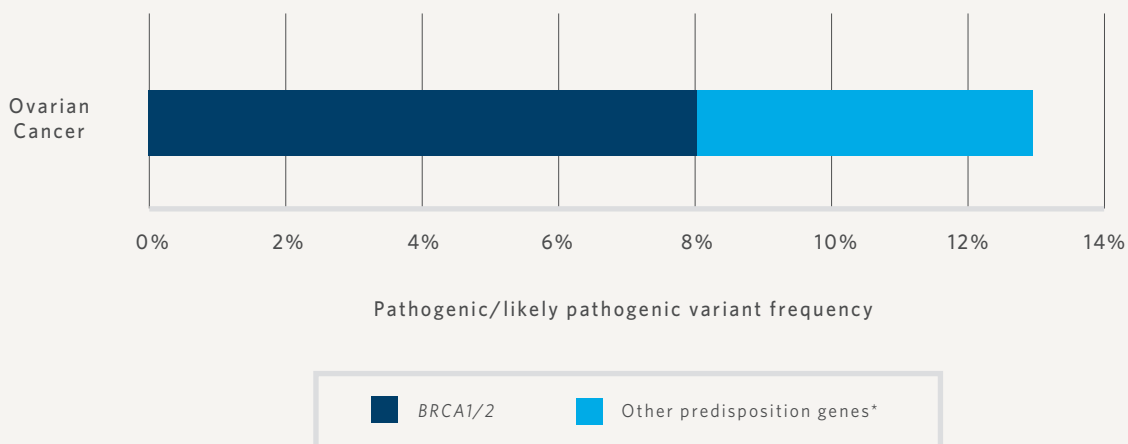


OvaNext, a 25-gene hereditary gynecologic cancer panel, increases diagnostic yield of clinically actionable results in patients with ovarian cancer. Testing genes beyond *BRCA1* and *BRCA2* can significantly increase detection of patients with hereditary ovarian cancer.

## KEY STUDY FINDINGS<sup>1, 2</sup>

- By comparing mutations by gene in 7768 ovarian cancer cases and reference controls, *BRCA1*, *BRCA2*, *BRIP1*, *MSH2*, *MSH6*, *RAD51C*, and *RAD51D* were confirmed as high-risk genes, with  $\geq 5$ -fold increased risk of ovarian cancer.
- ATM* was identified as a moderate risk ovarian cancer gene with  $>2$ -fold increased risk of ovarian cancer observed.<sup>1</sup>
- Using multigene panel testing increases the detection rate for ovarian cancer patients meeting *BRCA1/2* testing criteria, by 62.5%.<sup>2</sup>

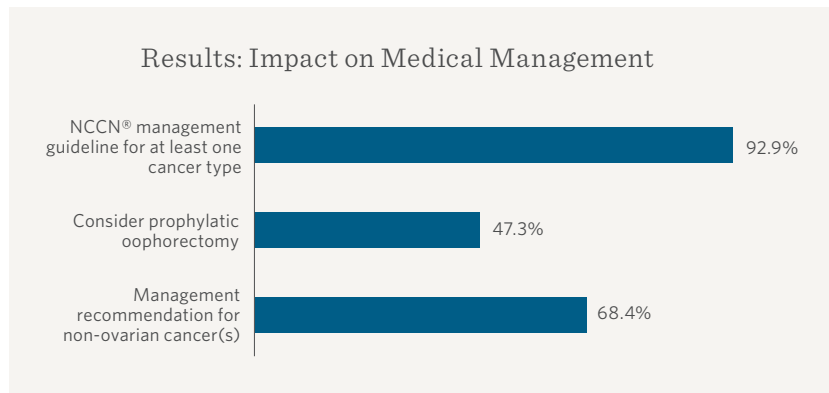
Frequency of Pathogenic Variants in *BRCA1/2* Relative to Other Genes Among Patients Meeting *BRCA1/2* Testing Criteria



\**ATM, BRIP1, MSH2, MSH6, NBN, PMS2, RAD51C, RAD51D, TP53*

KEY FINDINGS<sup>3</sup>

- >12,000 patients with a personal history of ovarian cancer were tested for hereditary breast and/or ovarian cancer through multigene panel testing.
- The combined frequency of pathogenic mutations in breast and/or ovarian cancer risk genes beyond *BRCA1/2* was 8.3%.
- 92.9% of positive findings were clinically actionable.<sup>4,5</sup>



## POINTS FOR YOUR PRACTICE

- OvaNext can help you identify more patients with hereditary ovarian cancer, including those who could be missed by current testing criteria.
- Maximizing the identification of patients with hereditary cancer is critical for guiding personalized management for patients diagnosed with ovarian cancer.
- Identification of patients with hereditary cancer allows for cascade testing of at-risk relatives and tailored medical management to increase early detection and prevention of cancer.
  - For example, guidelines indicate that prophylactic oophorectomy can be considered for women with mutations in genes such as *BRCA1*, *BRCA2*, *BRIP1*, *EPCAM*, *MLH1*, *MSH2*, *RAD51C* and *RAD51D*.<sup>4,5</sup>

## REFERENCES

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3. Namey T *et al.* Multigene Panel Testing Increases the Detection of Clinically-Actionable Mutations in Ovarian Cancer Patients. Poster Presentation SGO 2018.
4. National Comprehensive Cancer Network®. NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®). Genetic/Familial High-Risk Assessment: Breast and Ovarian. Version 1.2019. Accessed July 26, 2018. Available from [nccn.org](http://nccn.org).
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