

GENETICS & HEALTH RESOURCES

Available genetic counselors/medical geneticists > Buffalo area

Cancer genetic counseling

Windsong Breast Care

Windsong Breast care is a major center for breast cancer screening in western New York. While they are mostly a lab that performs screening for *BRCA1/BRCA2* to examine for breast cancer risk they do perform genetic counseling for cancer risk.

Roswell Park

Roswell Park is a front line cancer hospital located in Buffalo, New York. Roswell Park performs a large amount of cancer screening as well cancer treatment. However, they also have a large genetic counselor department that focuses on cancer genetics. Their department will work with patients that are at risk or going through testing for a wide array of cancer genetic tests.

Great Lakes Cancer Center

Similar to Roswell Park, Great Lakes Cancer Center focuses on genetic testing and care for patients with an increased risk for cancer. They will perform genetic testing and screens that will determine the patients risk for different cancers. They do have genetic counselors that will work with the patients during their time with Great Lakes Cancer Center.

Fertility Genetic Counseling

CNY Fertility

CNY Fertility focuses on preimplantation genetic testing. They focus on genetic testing that examines if the developing fetus will have any genetic defects that can be detected before implanting the fetus into the mother. They do have genetic counseling to work with the parents as they go through with this process.

Buffalo Infertility & IVF Associates

Buffalo Infertility and IVF Associates is an infertility clinic that offers a large amount of options for dealing with infertility. These options can range from guidance as to how to optimize natural fertility, surgery to correct an anomaly, hormone therapy, or IVF technologies. They offer guidance and counseling to work with a patient during this time.

Other Genetic Testing & Counseling Options

UBMD Pediatrics Laurie S. Sadler, MD and Richard W. Erbe, MD

Dr. Laurie S. Sadler and Dr. Richard W. Erbe are pediatric medical geneticists. They are located in downtown Buffalo on the 4th floor of the Coventus Building at 1001 Main street. While they are pediatric medical geneticists they are taking both children and adult patients that are in need of genetic and genomic care. The two of them focus on non-cancer genetic diseases as cancer genetic care is normally handled by Roswell Park. Their contact information is (716)323-0040.

Western New York Blood Care

Western New York Blood Care is a healthcare center that is focused on the treatment of different blood conditions such as hemophilia, thrombophilia, platelet disorders and gaucher disease. At WNY Blood care they offer care that helps a patient be better equipped

to handle the challenges that they will face. Beyond that WNY Blood care also offers clinical care such as annual visits and genetic testing. In their employ is Carolyn Farrell, PhD, MS, WHNP-BC, CGC she is the genetic counselor for WNY Blood Care.

Available genetic counselors/medical geneticists > Rochester area

Cancer genetic counseling

University of Rochester Medicine Genetics – Wilmot Cancer Center

This is a program set up at the University of Rochester that is designed to help individuals and families that have inherited cancer syndromes or show a family history of cancer. The resources here will perform the genetic testing and provide genetic counseling for the patients in their care.

Rochester Regional Health

Rochester Regional Health is a genetic counseling firm that focuses on pathology, cytology and diagnostic imaging. They are available to give patients counseling and aid in looking for early and accurate cancer detection and diagnosis.

Elizabeth Wende Breast Care

Elizabeth Wende Breast Care focus mostly on breast cancers but will work with some patients with other cancers as well such as ovarian. They offer genetic counseling to anyone with a 5% or greater risk chance of a mutation that increases their risk of breast or related cancers.

Prenatal genetic counseling

Stephanie Laniewski, MS, CGC

Stephanie Laniewski is a genetic counselor who focus in prenatal genetic conditions. Her goal is to meet with families who have a higher chance of having a baby with a genetic condition or birth defect. She is at the time of writing this report taking new patients. Her contact information is, Office: (585)487-3840 Fax: (585)334-6292

Companies that sell genetic testing

Variantyx <https://www.variantyx.com/>

Variantyx is a testing company that has numerous tests for rare genetic disorders. They are able to detect SNVs, small indels (<50bp), structural variants (>50bp) which includes variants such as deletions, duplications, insertions, Inversions, and translocations, Mitochondrial variants (>5% heteroplasmy), and Tandem repeat expansions. Their method once they obtain the sample from the patient is as follows. First they perform PCR free whole genome sequencing. This type of sequencing has a consistent read depth over more than 98% of the genome and enables identification of multiple variant types from a single sample. Variantyx has developed proprietary algorithms which are optimized for each variant type which are used to provide a more complete genetic picture for their patient. From there they have a scientist interpret all the found variants in the context of the patient's phenotype and from that generate a unified clinical report that is then reviewed and signed by a board of certified clinical and molecular geneticists.

Color <https://www.color.com/>

Color is a testing company that focus on genetic panel testing. As of writing this report they offer two different gene panels that can be ordered. The first is their hereditary cancer screen which is a genetic risk analysis of 30 genes associated with 8 common hereditary cancers. The other is Color Extended which is a genetic test panel that screen 74 genes associated with common hereditary cancers, hereditary forms of heart disease, and medication response. Their tests are performed in a CAP-accredited and CLIA-certified lab using NGS methods. To the provider they return reports that are integrated with relevant guidelines to help you develop a personalized screening and prevention plan for the

patients. They also have genetic counselors available to talk with patients as well as geneticists that are available to answer provider's questions.

Myriad <https://myriad.com/>

Myriad is a genetic testing company that focuses mostly on hereditary cancer testing but they do offer several other genetic tests. The tests they offer are EndoPredict a breast cancer risk test, Foresight which is a genetic carrier tests, the pharmacogenomics tests genesight can help determine which drug will work best for a patient with depression, several gene panels that investigate hereditary cancer risk, a melanoma gene panel, a pharmacogenomics tests for the PARP inhibitors and their use for breast cancer treatment, a prenatal screen that allows parents to know if their child will have any chromosome conditions like Down syndrome, a gene panel test for prostate cancer that examines genes involved with tumor proliferation, and finally a gene panel that measures 12 key biomarkers that are related to rheumatoid arthritis.

Invitae www.Invitae.com

Invitae is a testing company that has a large focus on different fields. They have tests that cover cardiology, metabolic disorders and newborn screening, dermatology, nephrology, exome, neurology, hematology, ophthalmology, hereditary cancer, pediatric genetics and immunology. They also offer reproductive health tests and proactive health tests. Most of their tests are gene panels that can range from five genes to several hundred genes. However, they do offer individual gene tests as well as the option to add individual genes to any of their tests. There tests are done by having a patient send a saliva sample to the lab where they will sequence the genes of interest and then send a report that contains the clinical relevance to the healthcare provider.

My Family Health Portrait

<https://phgkb.cdc.gov/FHH/html/index.html>

My Family Health Portrait is not a testing resource like the other ones listed above. This tool was created to help individuals enter their family history, learn about the risk conditions that can run in families, and make an easy to read family history to share with family and health care providers. While this tool may not aid in the testing of the healthcare providers it will aid in them in keeping an updated and well documented family history for their patients.