Coming Soon!

Expanded Carrier Screen

with Personalized Residual Risk

Informed by ancestry, delivered with confidence

Sema4's new Expanded Carrier Screen is one of the most comprehensive and accurate carrier screens available, with **personalized residual risk reporting based on a patient's molecular ancestry.**

- Uses proprietary technology to identify a patient's molecular ancestry on a genome-wide level for tailored personalized residual risk
- Analyzes patient-specific genealogical information that is critical for providers to better understand a patient's chance for passing on inherited disease
- Provides patients with personalized residual risk education and the option to view their ancestry report in the Sema4 patient portal

More than 500 clinically relevant conditions with highly accurate insight

Each condition included on the Expanded Carrier Screen panel meets one of the following criteria for inclusion:

- Early-onset and severe

or

- Onset in childhood or early adulthood and progressive severity

or

- Amenable to early detection, where treatment or intervention can improve lifetime management of the disease

Detects more high-risk pregnancies than traditional carrier screening by *identifying up to 30 times* as many carrier couples*

Traditional Carrier Screening		Sema4 Carrier Screening
1 in 800	**vs**	**1 in 25**
CF and SMA		New 502 panel

- Flexible carrier screening options, from 1 to over 500 genes to inform family planning decisions
- ***New*** optional add-on genes available, including the ability to screen for thrombophilia
- Thoughtful test design, informed by insights from Centrellis™, our proprietary health intelligence platform

Full-scale support for seamless workflow integration

- Wrap-around genetic counseling and customer service support, including explanation of results, patient video education, and multiple reporting options (EMR, portal, paper)
- Continual scientific review and advancement of our offerings to ensure providers offer the best care to their patients

* Data on file.

Flexible Panel Options

Panel	Description
***NEW* Expanded Carrier Screen - 502 gene panel**	Includes all genes in the 283 panel, plus 200+ additional genes that provide clinically relevant and actionable information.
Expanded Carrier Screen - 283 gene panel	Pan-ethnic panel of genes associated with a wide-array of clinically relevant conditions, including cardiovascular, endocrine, neurological, hematologic, and pulmonary disorders.
Expanded Carrier Screen - 152 gene panel	Includes 84 genes recommended by Stevens, et al based on a 2013 position statement from ACMG and ACOG CO 690, along with 68 high frequency X-linked and autosomal recessive genes.
Comprehensive Jewish Carrier Screen - 101 genes	Includes genes associated with conditions that are more common in people of Jewish ancestry. Specific Ashkenazi Jewish and Sephardi-Mizrahi Carrier Screens are also available.
East Asian Carrier Screen - 95 gene panel	Includes genes reported to have an increased carrier frequency in East Asian populations, including genes with known founder mutations.
Expanded Carrier Screen - 39 gene panel	Includes 23 genes highlighted by ACOG plus 16 additional higher-frequency genes such as Duchene muscular dystrophy.
High-frequency pan-ethnic - 11 gene panel	Screens for common disorders including fragile X syndrome and sickle cell disease.
Standard pan-ethnic - 4 gene panel	Screens for cystic fibrosis, fragile X syndrome, Smith-Lemli-Opitz syndrome, and spinal muscular atrophy.

To learn more about our Carrier Screening panels, please visit **sema4.com/testcatalog**

At Sema4, we are dedicated to helping every patient access advanced genetic testing

Sema4 is contracted with all major national payors.

Carrier screening is covered by most insurance plans, however, copays, co-insurance, and/or deductibles may vary by health plan.

We appeal coverage determinations on behalf of patients if precertification or pre-authorization requests are denied.

We are committed to ensuring that all patients can access quality testing. Affordable payment plans, self-pay pricing, and other financial assistance options are available for patients who are uninsured or underinsured.

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