



# PenGen

## Genetic and Risk Management System

PenRad's PenGen system allows facilities to collect and manage patients' risk assessments and genetic testing eligibility. System calculates real-time Tyrer Cuzick values, and Genetic testing eligibility based on multiple models, for patient and relatives.

PenGen leverages the uptake process used in our flagship product PenRad for mammography. Data can be collected and updated directly via the PC or tablet by the patient or staff. Web portal interface available as well for EMR.

Unlike other third party "genetic" products, PenGen leverages our database structure for patient records as data elements versus free-text, providing extensive data mining capability via our administrative reports for; analytics, patient identification and eligibility, surveillance, enrollment opportunities and more.

PenGen's automated correspondence generation (in patient preferred language) offers improved patient engagement for: Genetic testing eligibility and results, breast cancer risk values, appointment and follow-up reminders, and in-network patient referrals. Letter distribution by secure email or/and mail ready, and send to EMR portal support.

PenGen incorporates the Tyrer Cuzick with breast density factor, and BCRA engine computing the patient's 5 yr, 10 yr and lifetime breast cancer risk values real-time, thus facilitating a high risk screening and monitoring program for the patient and relatives.

The genetic testing eligibility engine incorporates multiple models, each factoring patient personal information and cancer history age of 1st, 2nd and 3rd-degree relatives with breast, colon, endometrial, ovarian, pancreatic, or prostate cancer.

Patient historical information is displayed and updated through our compact medical and risk screen as well with our patient tablet application if desired.

PenGen's high risk cancer risk values and genetic eligibility are automatically calculated real-time without using secondary systems, adding efficiency.

With a common HL7 interface with the EMR, PenGen captures patient demographics and genetic orders. This offers the ability to conduct outreach marketing surveys and educational opportunities for the Genetic department for various patient profiles.

The optional appointment package allows scheduling of consults, optimizing counselor's schedule.

High risk cancer values can be used for adjunct screening eligibility for breast ultrasound and MRI.

Reports offer feedback to ordering physicians and managers progression status for patients.

Extensive statistical administrative reports identifying patients at various risk values and risk items and those eligible genetic testing.

Facilitates recording keeping of correspondences.

Log files for increased HIPAA compliance.

US based 24/7 support and upgrades.

PenGen is a compliment to PenRad's PenTrac and PenRad for breast imaging and procedures, each facilitating tracking, administrative and audit needs for MQSA and data submittal for NMDB.

PenLung for tracking, audit and administrative needs for LDCT lung screening for data submittal to ACR registry.

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