

CONTRAST ENHANCED SPECTRAL MAMMOGRAPHY (CESM)

What is CESM?

CESM is a 2D mammogram that uses an injection of iodinated contrast (similar to CT) for patients who have had inconclusive mammograms or an abnormal ultrasound. It is a diagnostic procedure.



2D mammograms can hide certain details, especially in women with dense breasts.



CESM uses iodinated contrast (similar to CT) to give clearer images of potential abnormalities.

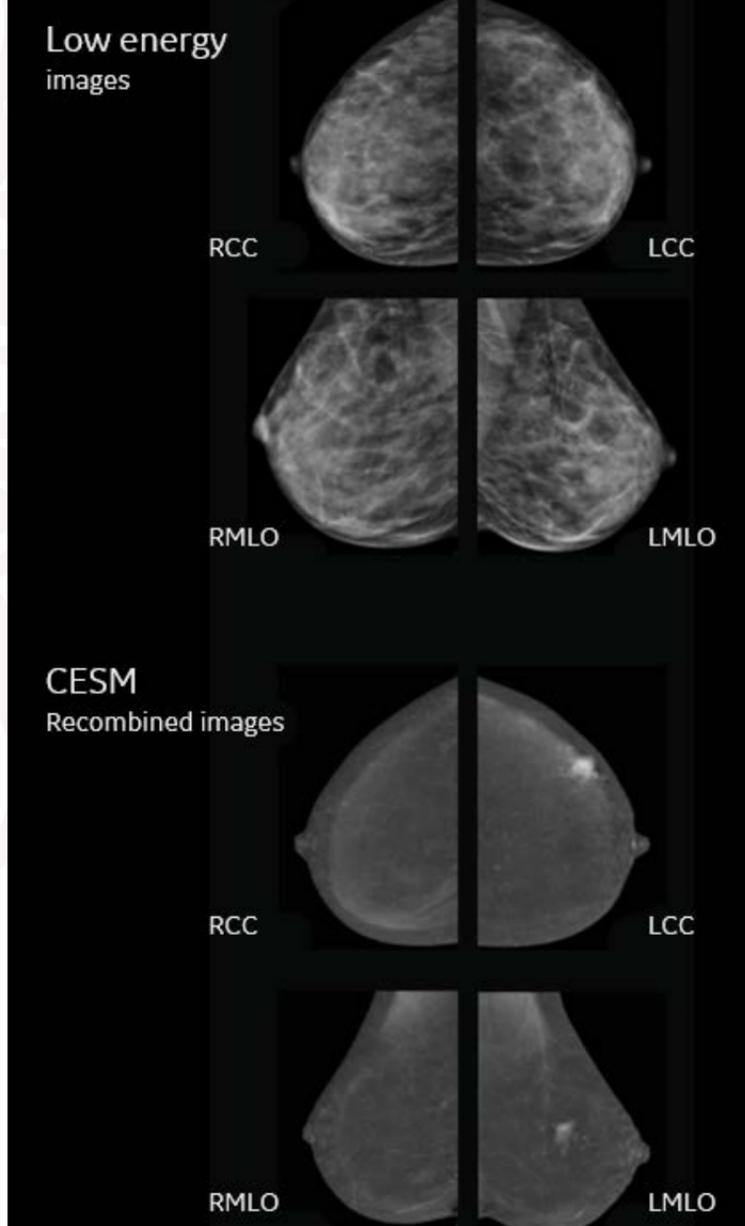
When Is It Used?

Our radiologist will determine if CESM is recommended. CESM is especially useful for patients at high risk or who have dense breast tissue.

Imaging Tool	Indications
2D Mammography and/or Tomosynthesis (3D Mammography)	<ul style="list-style-type: none"> Annually beginning at age 40 unless high risk
Ultrasound	<ul style="list-style-type: none"> Clinical or imaging findings Screening dense breasts
Contract Enhanced Spectral Mammography (CESM)	<ul style="list-style-type: none"> BIRADS 3 at six month follow-up MRI Indications with contraindications BRCA patient at six months after MRI screening Problem solving of clinical or imaging findings High anxiety patient
Breast Magnetic Resonance Imaging (MRI)	<ul style="list-style-type: none"> Annual exam for risk > 20% lifetime Breast Cancer staging or restaging Problem solving of clinical or imaging findings

How it works

CESM uses an injection of iodinated contrast (similar to CT) to highlight any areas with unusual blood flow using subtracted imaging. It combines four mammography views – two low-energy and two re-combined in the same position to provide clearer visualization. The resulting image shows only where contrast has pooled, indicating areas that are potentially cancerous. The entire exam takes about 7 minutes.



Other Benefits

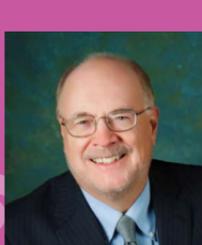
- The exam takes less than seven minutes.
- Reduces false-positives and unnecessary callbacks.
- Reduces patient anxiety.
- Greater comfort for patients.
- High sensitivity for improved diagnosis.

Where Does RMI Offer this Exam?

The "Senobright" CESM exam is performed at our Lennon Road, Flint, and Novi offices on our new General Electric "Senographe Pristina" machines, which are designed for both 2D and 3D mammograms (tomosynthesis).

Our Women's Imaging Team is here for you

Our team of seven breast imaging specialists bring decades of experience to each imaging study. Located across our nine offices, they are always available to consult with you about your patients. RMI has served mid-Michigan for more than 30 years, and now offers three locations in the Metro Detroit area – Royal Oak, Novi, and Southgate.



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Learn more

To learn more about tomosynthesis at RMI, please visit www.rmipc.net/tomosynthesis.

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