



Health Technology Review	
<b>Technology Ref.:</b>	HTA-23032
<b>Technology Name:</b>	Contrast Enhanced Mammography (CEM).
<b>Approvals by International Bodies:</b>	FDA Approval
<b>Company name:</b>	General Electric Healthcare
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<b>Short Description of the Technology:</b>	Mammography is the most reliable imaging technique for breasts, but limitations can exist due to breast density. This is especially the case in dense breasts where tissues may overlap. For a final diagnosis, radiologists often need complementary imaging, such as breast MRI. Contrast Enhanced Mammography / SenoBright HD offers confidence of MRI with fewer costs overall. An intravenous iodine injection is performed on the patient in the same room as the mammogram exam.
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<b>Health Technology Assessment Team Recommendation:</b>	<b>Approve</b>
<b>Summary of Review:</b>	
<p>Contrast Enhanced Mammography is becoming a valuable tool in the diagnosis and staging of primary breast cancer. It improves the diagnostic accuracy of mammography, providing more accurate tumor sizing and identification of multifocal disease, particularly in women with denser parenchymal background patterns. Performance is equivalent to MRI and there is evidence of improved specificity, with a reduction in false-positive interpretations. Compared with MRI, it is also potentially more accessible and cheaper. CEM has the potential to detect cancers even faster, even among low risk populations, while improving the patient t experience.</p>	
<b>Advantages</b>	<b>Disadvantages</b>
studies comparing CEM and MRI showed similar performance.	Main side effect is due to possible allergies to contrast and to patient with Renal disfunction
Contrast Enhanced Mammography offers the confidence of MRI with fewer costs overall. An intravenous iodine injection is performed on the patient in the same room as the mammogram exam	Slightly more radiation exposure than regular mammograms
FDA Approved	
Perform the quick exam at the same time, same location, with the same equipment.	

We recommend **approval this technology** with the following conditions:

1. performed by Healthcare Professionals.
2. Establishing a proper quality monitoring process and reporting of any adverse events or unwarranted consequences including safety issues of employees.
3. Provision of regular updates and reports about the product to DOH upon request.

**Moreover**, DOH has the right to stop the product at any stage if deemed necessary, initial conditions and any subsequent conditions must be satisfied before obtaining final approval. Failure to do so will reflect in provoking the approval.

#### Technology Image





## Population, setting and intended user for Technology “Contrast Enhanced Mammography.”

- **Population/ Intended User.**
  - patients with dense breasts.
  - used to evaluate breast symptoms or abnormalities seen on mammogram.
  - to assess the extent of cancer in women with newly diagnosed breast cancer and to monitor response to neoadjuvant chemotherapy prior to surgery.
- **To be performed by:**
  - Specialist mammographer/Radiographer.
- **Clinical Setting:**
  - Hospitals and special mammogram centers
- **Condition of use:**
  - who has received an inconclusive result after standard mammogram being referred to MRI
  - The Quality of Tumor Size Assessment
- **Exclusion criteria:**
  - Do not perform CEM exam for patients with implants.