Small Organ and Intraoperative Imaging with Seracam®
Presented at IUPESM

London, UK, 1 Oct 2025. Serac Imaging Systems Limited ("Serac Imaging Systems" or "the Company"), the medtech company developing 'Seracam®' a portable hybrid gamma-optical camera for medical imaging, and its clinical investigators from the Faculty of Medicine at the University of Malaya, Malaysia, announce that an oral presentation evaluating the first clinical experience using Seracam® took place at the IUPESM World Congress on Medical Physics and Biomedical Engineering in Adelaide, Australia (29 September to 4 October).

In this study at the Universiti Malaya Medical Centre, Seracam® was used to localise sentinel lymph node uptake in breast cancer patients during sentinel lymph node biopsy (SLNB) procedures [see notes to editors], and the number of sentinel lymph nodes detected between Seracam® and a gamma probe compared.

The study demonstrated that:

- Seracam® provides high spatial resolution and flexibility for small organ imaging in a range of applications
- In SLNB procedures, Seracam® effectively localises the active sentinel lymph node, producing real-time gamma-optical fused images to aid anatomical localisation

The presenting author, Dr Aik Hao Ng, clinical medical physicist and senior lecturer at the Universiti Malaya, concluded that:
"Seracam is a versatile imaging tool, integrating scintigraphy into intraoperative and bedside settings. Its clinical potential extends beyond SLNB to broader applications in nuclear medicine and surgical imaging settings."

Mark Rosser, Chief Executive of Serac Imaging Systems, added:
"Seracam delivers molecular imaging technology which has the potential to improve patient care and optimise workflow in the nuclear medicine department. The fused image overlay, compact design, light-weight portability and excellent performance in spatial resolution make it ideally suited for use at the patient bedside as well as in image guided surgery. We look forward to continuing our work with the dedicated team in Malaysia to fully evaluate the results from this study."

- ENDS -

Seracam® is for investigational use only and has not been registered or approved by the FDA, UK, European or Malaysian regulatory authorities.

For more information, please contact:

Mark Rosser, Chief Executive Officer — +44 (0)20 8948 0000
info@seraclifesciences.com

Francetta Carr, Communications — +44 (0)7711 010 820
francettacarr@seraclifesciences.com

See slides from the conference below.

Notes to Editors

About Serac Imaging Systems and Seracam®
Serac Imaging Systems Ltd is a medtech company developing a portable hybrid gamma-optical camera for medical imaging. Our lead product is Seracam® which is in development to bring the benefits of high-resolution molecular imaging to a patient's bedside, instead of being confined for use in a hospital's nuclear medicine imaging department. A further unique feature of this technological approach is the overlay of a gamma image with an optical image of the same anatomical location under examination. Such portable and enhanced imaging technology has the potential to help clinicians make better, more informed and more timely treatment decisions. For further details, please see www.seracimagingsystems.com

Seracam® is a UK and EU registered trademark. Serac Imaging Systems Ltd is a wholly owned subsidiary of Serac Life Sciences Limited.

About molecular imaging
Molecular imaging is a type of medical imaging that provides unique insights into what is happening inside the body at the cellular and molecular level helping physicians to deliver personalised medicine by delivering the right treatment to the right patient at the right time. Unlike other medical imaging technologies such as x-rays, computed tomography (CT) and ultrasound (US) which provide structural images, molecular imaging allows physicians to see how cells, tissues and organs are functioning and to measure chemical and biological processes without having to resort to biopsy or surgery.

About sentinel lymph node biopsy and Seracam®:
Radioguided sentinel lymph node biopsy is a minimally invasive surgical technique which determines the spread of cancer from a primary tumour through the lymphatic system, leading to widespread metastatic disease. Use of this procedure leads to a substantial reduction in patient morbidity and improved outcomes. It is a major prognostic factor in patients and is important in managing patient treatment.

The standard protocol for the sentinel lymph node biopsy procedure in breast cancer uses a radiotracer to identify the location of the sentinel node. A conventional gamma camera situated in a nuclear medicine department is used to image the distribution of the tracer prior to surgery. However, these conventional gamma cameras are very large instruments that cannot be moved, so during surgery the surgeons rely upon a non-imaging gamma probe to localise the uptake of the radiotracer in the node via an audible signal. The small form factor of Seracam enables it to be used for imaging of the nodes during surgery, while the unique hybrid gamma-optical imaging allows the surgeon to map the tracer uptake to physical anatomy in real time during the procedure.

About IUPESM 25: https://wc2025.org/

IUPESM 2025
World Congress on Medical Physics and Biomedical Engineering
29 September – 4 October 2025
Adelaide Convention Centre, Australia

Hybrid optical-gamma camera for small organ and intraoperative imaging: First clinical experience

Aik Hao Ng[1], Intan Noorliyana Md Musidek[1], Muhammad Ikhmal Sofian[1], Mohammad Nazri Md Shah[1], Mee Hoong See[1], Chai Hong Yeong[2], Alan C. Perkins[3]

[1]Faculty of Medicine, Universiti Malaya, Kuala Lumpur;
[2]Digital Health and Medical Advancement Impact Lab, School of Medicine, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Malaysia;
[3]Radiological Sciences, School of Medicine, University of Nottingham, Nottingham, NG7 2UH, United Kingdom

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Conclusion

- **Seracam®** demonstrates feasibility for sentinel lymph node imaging in breast cancer management and small organ imaging.
- Provides **real-time high-resolution** hybrid optical-gamma images at the **operating table.**
- Further investigations are warranted to optimize the device for intraoperative imaging.

"see, open, listen and look with new eyes"