Press Release

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Siemens Healthineers expands Photon-Counting CT portfolio in Canada

- **NAEOTOM Alpha class: two new photon-counting CT scanners**
- **High image quality at low radiation dose opens new opportunities in diagnostics, with potential of changing treatment pathways**
- **World's first single source photon-counting CT scanner with wide appeal for healthcare providers**

Siemens Healthineers introduces the Health Canada-licensed NAEOTOM Alpha class, now available across Canada, including a second dual source scanner, NAEOTOM Alpha.Pro, as well as the world's first single source scanner with photon-counting technology, NAEOTOM Alpha.Prime. Since 2021, NAEOTOM Alpha has been the only commercially available system with this technology available for clinical use, and more than a million patients have already been scanned worldwide. It will remain part of a new class of photon-counting CT scanners with the same product name in Canada.

"We're pleased to bring the NAEOTOM Alpha class to Canada, expanding access to a new standard in photon-counting CT," says **Rene Boyer**, senior director, diagnostic imaging, Canada at Siemens Healthineers. "This innovation provides clinicians with actionable insights that drive precise diagnoses and ultimately improve patient outcomes."

Photon-counting CT enables the acquisition of more detailed images with anatomical and functional information by "counting" each individual X-ray photon that passes through patients. At lower radiation doses, clinicians can detect and evaluate small structures precisely and with fewer artifacts, maximizing the diagnostic information and accuracy for fast decision-making and optimized imaging workflows. Siemens Healthineers is currently investing €80 million (CA$129 million) to expand photon-counting detector production in Forchheim, Germany.

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NAEOTOM Alpha will be the high-end model of the new product series with the fast scan time of 737 mm/sec (millimeters per second), making it the preferred system for radiologists who continue to demand high clinical performance. All NAEOTOM Alpha class systems will use the Quantum HD resolution feature to display anatomical details in high resolution at a slice thickness of 0.2 mm. Thus, without increasing the radiation dose, small abnormalities become visible.

NAEOTOM Alpha.Pro combines the precision of photon-counting with the speed of dual source CT, resulting in scan times as fast as 491 mm/sec. Demanding examinations can be performed for example in pulmonology, with patients needing to hold their breath for less time; in cardiology, with scans at high heart rates without beta-blockers; and in pediatrics, where children can be scanned without sedation. This not only improves clinical workflows, but also the patient experience. Spectral performance is important for complex tasks such as the automatic analysis and evaluation of highly calcified coronary arteries and time-critical treatments, such as trauma or stroke. NAEOTOM Alpha.Pro is therefore suitable for institutions catering to patients with these needs and as a centrally-located high-performance scanner for complex cases at the core of hub-and-spoke networks, which can use other scanners in the periphery for routine exams.

NAEOTOM Alpha.Prime is the world's first single source photon-counting CT for use as a high-performance scanner for in-patient, ambulatory, and emergency room examinations in stand-alone institutions and big IDNs (Integrated Delivery Networks), or also in the periphery of hub-and-spoke networks. Precise diagnostic imaging with photon-counting CT as a new benchmark in future patient care will thus be available for the first time for facilities without specific needs for dual-source technology. Like all NAEOTOM Alpha class models, NAEOTOM Alpha.Prime accelerates diagnostic and interventional processes with the support of artificial intelligence and automation: myExam Companion guides users through various step of the examination – from system and patient preparation to image acquisition and reconstruction, as well as evaluation and post-processing. This enables departments to quickly and easily achieve consistent results, regardless of patient group, procedure, or experience.

"Bringing photon-counting CT to a broader range of Canadian healthcare providers supports faster, more confident decisions for diverse patient needs," says **Scott MacDonald**, CT business line manager, Canada at Siemens Healthineers. "The NAEOTOM Alpha class offers the kind of imaging performance that helps teams work efficiently while elevating the overall experience for patients."

Further information on the NAEOTOM Alpha class can be found here:
https://www.siemens-healthineers.com/en-ca/computed-tomography/naeotom

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