

## Health Canada Licenses Siemens Healthineers' Biograph Horizon PET/CT System for Sale in Canada

- **Versatile, scalable PET/CT system addresses broad range of indications**
- **Smallest<sup>1</sup> PET/CT system with lowest<sup>1</sup> power requirements**

Health Canada has licensed Siemens Healthineers' Biograph Horizon™<sup>2</sup> positron emission tomography/computed tomography (PET/CT) system for sale in Canada. The Biograph Horizon offers premium performance at an attractive total cost of ownership. The system leverages proven PET/CT technology to help providers address more clinical indications in oncology, neurology, and cardiology, while also introducing new efficiencies and cost savings.

The Biograph Horizon enables clinicians to serve a broader mix of patients and expand into new service lines without compromising on quality due to budget restraints. Helping physicians visualize smaller lesions early, the system's 4 mm LSO crystals scintillate faster and have a higher light output than BGO crystals,<sup>3</sup> resulting in high resolution and better image quality, and enabling Time-of-Flight acquisition.<sup>4</sup> Biograph Horizon's capabilities are valuable for many indications, such as lung cancer – the most common PET/CT indication, at 29 percent of the total exam mix.<sup>5</sup> As more than half of lung cancer patients are diagnosed at a late stage<sup>6</sup> and have an increased likelihood of distant metastasis, more detailed patient data can help clinicians more accurately stage disease and evaluate therapy response, contributing to more effective care pathways.

As the smallest<sup>1</sup> PET/CT system with the lowest<sup>1</sup> power requirements, Biograph Horizon minimizes the initial capital investment and is a smart choice for institutions looking to replace their current PET/CT scanner, as the system will fit into virtually any existing PET/CT exam room. Biograph Horizon offers low operating and maintenance costs to help manage the total cost of ownership, with automated technologies such as gentle system warm-up and automatic standby that extend the system's economic life in addition to reducing power consumption. And Siemens' Guardian Program™ predicts system issues before they occur, lowering costs related to unplanned downtime by 43 percent.<sup>7</sup>

"At a time when there is a demand to drive down cost while enhancing productivity, Siemens Healthineers is well placed to support with technology capable of improving care pathways and maximizing investments. The Biograph Horizon provides a cost-effective PET/CT imaging solution that does not compromise on quality. As our smallest PET/CT system, it offers low power requirements and a small footprint to ensure reduced operating and maintenance costs, with the flexibility to meet expanding clinical needs," commented

Guy Cimon, Business Line Manager, Molecular Imaging, Siemens Healthineers Canada. “

To increase productivity and time spent with patients, Biograph Horizon simplifies staff's daily routine by automating manual tasks and offering protocol-based exams. For example, the Quanti•QC feature can run quality control procedures overnight, scans can be performed in as fast as five minutes, and reconstruction runs alongside acquisition for image delivery just 30 seconds after the scan.<sup>8</sup>

Configured specifically for Biograph Horizon, *syngo.via*<sup>®</sup> Molecular Imaging Workplace<sup>4</sup> is a cost-effective image processing solution that can expand with providers' clinical needs. The solution offers automated tools to instantly visualize diagnostic information, measure with confidence and report more comprehensively. *syngo.via* automates prefetching, preprocessing, and display and comparison of previous findings for up to 45 percent<sup>9</sup> faster processing. Also, ALPHA technology provides automatic registration with organ-based recognition capabilities. EQ•PET<sup>10</sup> normalizes standard uptake value (SUV) measurements across different scanners for more precise calculation of changes in tumor uptake.

<sup>1</sup> Based on competitive information available at time of publication. Data on file.

<sup>2</sup> Biograph Horizon is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

<sup>3</sup> Pepin, et al (2004). Properties of LYSO and Recent LSO Scintillators for Phoswich PET Detectors. IEEE Transactions on Nuclear Science, 51, 3.

<sup>4</sup> Optional.

<sup>5</sup> IMV 2014 PET Imaging Market Summary Report.

<sup>6</sup> U.S. National Institutes of Health, National Cancer Institute, SEER Cancer Statistics Review, 1975-2011.

<sup>7</sup> Quantification based on Siemens ticket hour statistics from active Guardian-capable systems in global installed base of AX, CT, MR and MI business units from FY2013.

<sup>8</sup> Results may vary.

<sup>9</sup> For oncology diagnosis. Compared to previous versions.

<sup>10</sup> Requires calibration to NEMA parameters for measurement normalization.

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Further information about the Biograph Horizon™ is available at:

<https://www.healthcare.siemens.com/molecular-imaging/pet-ct/biograph-horizon>

### Contact for journalists

Alastair Harris-Cartwright

Siemens Healthcare Limited

Phone: +1 289-681-6637

E-mail: [alastair.harris-cartwright@siemens.com](mailto:alastair.harris-cartwright@siemens.com)

[www.siemens.ca/healthineers](http://www.siemens.ca/healthineers)

Follow us on Twitter at: <https://twitter.com/SiemensHealth>

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