

Healthcare Sector News Byte

Inveon Preclinical Imaging System Validated Using New NEMA Guidelines

Hoffman Estates, Ill., June 5, 2009 – The Inveon preclinical imaging scanner from Siemens Healthcare has recently been validated in several publications using newly established NEMA guidelines for conducting performance evaluation of preclinical PET imaging scanners.

Using these new guidelines, performance validation studies of the Inveon preclinical PET scanner has most recently been published by Chatziannou and coworkers in *Journal of Nuclear Medicine* (Performance evaluation of the Inveon dedicated PET preclinical tomography based on the NEMA NU-4 standards. *Bao Q, Newport D, Chen M, Stout DB, Chatziannou AF. Journal of Nuclear Medicine 2009; 50: 402-408*) and also Kemp and coworkers in the journal *Physics in Medicine and Biology* (NEMA NU 2-2007 performance measurements of the Siemens Inveon preclinical small animal PET system. *Kemp BJ, Hruska CB, McFarland AR, Lenox MW, Lowe VJ. Phys Med Biol 2009; 54:2359-2376*). The results of these studies clearly indicate a high level of concordance with published specifications from Siemens Preclinical Solutions and confirm the company's commitment to the high standard of technology, design and performance of the Inveon preclinical PET scanner.

The NEMA guideline serves as a benchmark for performance evaluation studies and enables unbiased comparisons between imaging scanners. These are the first published reports of a preclinical PET imaging system that was evaluated using guidelines established by the NEMA organization.

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1 / 2

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