

# PSMA PET/CT

(Prostate specific membrane antigen)

PSMA PET/CT is a new type of PET/CT scan that measures prostate specific membrane antigen (PSMA). PSMA is a trans-membrane protein with intracellular and extracellular placement within the prostate cancer cell. It is substantially higher in malignant cells; PSMA is overexpressed in >80-% of men with prostate cancer.<sup>1-6</sup>

PSMA PET/CT is approved for both initial staging of recently diagnosed prostate cancer, as well as the evaluation of possible local recurrence or metastatic disease in patients with previous treatment.

## How is PSMA PET/CT used?

- For staging prostate cancer
- To evaluate possible local recurrence or metastatic disease
- As a noninvasive prognostic biomarker
- As a highly useful tool to guide personalized treatment

## PSMA PET-CT in the diagnosis of localized and advanced disease

- The ProPSMA trial concluded that “PSMA PET-CT is a suitable replacement for conventional imaging, providing superior accuracy, to the combined findings of CT and bone scanning.”<sup>7</sup>
- PSMA demonstrated 92% detection accuracy vs 65% with conventional imaging<sup>7</sup>

## PSMA PET-CT as a prognostic biomarker

- The absence of PSMA expression level was positively correlated with 5-year survival rates<sup>4</sup>
- PSMA PET-CT offers detection of a clinically relevant biomarker using a noninvasive diagnostic tool<sup>8,9</sup>

## PSMA PET-CT to guide treatment decisions

- PSMA PET-CT may help guide clinical management with a tailored approach and enable more therapy options<sup>10</sup>
- PSMA PET/CT after conventional imaging led to management changes in approximately 60% of patients<sup>10,11</sup>

## Would you like to know more?

The nuclear medicine specialists at IHS are happy to share additional information with you about PSMA PET-CT, including both current and future applications as well as patient experiences.

**For more information, please email us at [info@imaginghealthcare.com](mailto:info@imaginghealthcare.com).**

