Revealing the whole picture

OSNA

Accurate nodal staging for personalised cancer treatment

www.sysmex-europe.com
A unique multi-application molecular platform for fast and accurate nodal staging

Metastatic spread to lymph nodes is one of the most important prognostic factors in most cancers. The nodal status is a significant parameter guiding clinicians’ decisions on the most appropriate surgical procedure and subsequent therapy steps.

Precise assessment of lymph node tissue and determination of the metastatic burden is decisive for providing high diagnostic quality and enabling reliable disease staging. Often, exhaustive nodal analysis is not common practice, not standardised as well as labour intensive for both the laboratory and the reporting pathologist.

With OSNA we aim to change this.

OSNA – or one step nucleic acid amplification – is a unique molecular diagnostic test facilitating standardised, accurate and rapid lymph node examination. The possibility to assess the entire tissue in combination with fast availability of results, offers clinicians a tool that fits perfectly with their clinical needs and the diagnostic requirements in managing patients with different cancer types. OSNA enables accurate nodal staging at any time, independent of whether the result is required intraoperatively or postoperatively.

Key benefits at a glance

✔ Whole node analysis
✔ Quantification of metastatic burden
✔ Standardised protocol
✔ Intraop results within 20 min
✔ 14 samples in 30 min
✔ Mix and match of different applications
✔ One kit for all
✔ Reduced pathology workload
Breast cancer

- Accurate sentinel node assessment
- Reduces pathology workload and time to report
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of axillary surgery
  - Supports decision-making of axillary surgery

Gastric cancer

- Fast, fully informed diagnosis during surgery
- Low-volume metastasis
- Prevents false negative results supporting de-escalation of axillary surgery
- Reduces pathology workload and time to report
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of surgical radicality

Gynaecological cancer

- OSNA – A Coruña: whole node analysis offers a faster turn-around time for gynaecological malignancies and associated post-surgical morbidities, improving patient’s QoL
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of surgical radicality

Colorectal cancer

- OSNA – The high accuracy and quantitative capabilities of OSNA make it a useful tool in intraoperative gastrointestinal cancer diagnostics. The possibility of scanning the entire node provides robust results, allowing streamlining bias
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of surgical radicality

OSNA – enhancing the value of nodal staging

Lung cancer

- OSNA allows the identification of colorectal cancer patients with positive (axillary nodes not detected by conventional histopathology) who would benefit from adjuvant therapy. It’s an opportunity to save their lives
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of surgical radicality

Prostate cancer

- OSNA analysis offers us for the first time the possibility to integrate molecular (lymph node and associated post-surgical morbidities, improving patient’s QoL
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of surgical radicality

Endometrial cancer

- OSNA – High reproducibility and standardisation of results
- OSNA – A Coruña: whole node analysis offers a faster turn-around time for gynaecological malignancies and associated post-surgical morbidities, improving patient’s QoL
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of surgical radicality

Nodal staging

- OSNA makes it a useful tool in intraoperative gastric cancer diagnostics. The possibility of scanning the entire node provides robust results, allowing streamlining bias
- Accurate nodal staging
  - Prevents false negative results
  - Supports de-escalation of surgical radicality

In endometrial cancer, OSNA could be considered as an alternative to False staging for the definitive pathology, with a consequent cost-reduction. Conversely, in cervical cancer the OSNA analysis could be applied for retrospective analysis for a more accurate diagnosis of mature- and low-volume metastasis.

In colorectal cancer, OSNA could be considered as an alternative to False staging for the definitive pathology, with a consequent cost-reduction. Conversely, in cervical cancer the OSNA analysis could be applied for retrospective analysis for a more accurate diagnosis of mature- and low-volume metastasis.
References


