

## The Sentinel Lymph Node Concept

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### The Sentinel Lymph Node Concept

The sentinel lymph node is the hypothetical first lymph node or group of nodes draining a cancer. In case of established cancerous dissemination it is postulated that the sentinel lymph node/s is/are the target organs primarily reached by metastasizing cancer cells from the tumor.. The sentinel node procedure is the identification, removal and analysis of the sentinel lymph nodes of a ...

### Sentinel lymph node - Wikipedia

The concept of sentinel lymph node mapping was popularized by Donald Morton and others. [citation needed] Cancer with various primary sites (breast, melanoma, colorectal, etc.) often metastasize early to the first drainage lymphatic basin. This process is predictable anatomically according to the primary site in the organ and the lymphatic ...

### Lymphadenectomy - Wikipedia

With further development and refinement, intra-operative lymphatic mapping and sentinel lymph node biopsy may provide a guide to the optimum extent of lymphadenectomy, but in its present form, it is beset by false negatives, skip lesions and failures to identify a sentinel node.

### Assessment of lymph node involvement in colorectal cancer

Sentinel lymph node staging. Due to the morbidity of mediastinal lymph node dissection, over the last two decades, there has been an interest in developing a less invasive, more regional mode of determining pathological mediastinal lymph node status by examining a few sentinel lymph nodes.

### Staging lymph node metastases from lung cancer in the ...

This concept contributes to the notion that if cancer is indeed present, then it is more likely to be first found in a sentinel node than other lymph nodes. As a result, clinicians are more inclined to perform a sentinel lymph node biopsy in order to help diagnose and stage individuals suspected to have cancer.

### Lymph nodes: Definition, anatomy and locations | Kenhub

A sentinel lymph node biopsy may be done with breast cancer or melanoma and can often spare a person from having all nodes removed. A tracer is injected into the cancer, and only the first few nodes to which the cancer would travel may be to be biopsied.

### Lymph Nodes: Structure, Function, Types, and Diseases

Chagpar A, Middleton LP, Sahin AA, et al. Clinical outcome of patients with lymph node-negative breast carcinoma who have sentinel lymph node micrometastases detected by immunohistochemistry. Cancer. 2005;103(8):1581-1586.PubMed Google Scholar Crossref

### Machine Learning Detection of Breast Cancer Lymph Node ...

Lymph nodes (LNs) are believed to be the first organs targeted by colorectal cancer cells detached from a primary solid tumor because of their role in draining interstitial fluids. Better detection and assessment of these organs have the potential to help clinicians in stratification and designing optimal design of oncological treatments for each patient. Whilst highly valuable for the ...

### Cancers | Free Full-Text | Development of Preclinical ...

he American Journal of Surgery ® is a peer-reviewed journal designed for the general surgeon who performs abdominal, cancer, vascular, head and neck, breast, colorectal, and other forms of surgery. AJS is the official journal of 7 major surgical societies\* and publishes their official papers as well as independently submitted clinical studies, editorials, reviews, brief reports ...

### Home Page: The American Journal of Surgery

Sentinel lymph node biopsy. The concept that the presence or absence of malignant cells in the sentinel node (the first lymph node downstream of invasive breast cancer) can reflect the status of tumor involvement in the entire lymph node region markedly reduced the need for ALND and its associated morbidity.

### Breast lymph nodes and lymphatic drainage: Clinical role ...

Clinics in Plastic Surgery updates surgeons on the latest trends in patient management, providing a sound basis for choosing treatment options. Published four times a year—in January, April, July, and October—each issue focuses on a single topic in either cosmetic or reconstructive plastic surgery, from liposuction, body contouring, and breast enhancement, to hand trauma, cleft lip, and ...

### Home Page: Clinics in Plastic Surgery

Axillary lymph node dissection is no longer the initial approach to nodal metastases for most patients. Four prospective randomised trials have shown no significant differences in locoregional recurrence or survival in patients with cN0 status with metastases in one to two sentinel lymph nodes treated with sentinel lymph node biopsy alone,

### Breast cancer - The Lancet

Lymphatic territories, as seen in the lymphosome concept 14 are drained by different vessels. The affected region corresponds to the anatomical area normally drained by the damaged lymphatic vessels. For example,

damage to the axillary lymph nodes can lead to swelling on the same side in the arm, breast and/or chest wall.

**What is lymphoedema?**

Sentinel Node concept

**Wikipedia**

The Journal of Minimally Invasive Gynecology, formerly titled The Journal of the American Association of Gynecologic Laparoscopists, is an international clinical forum for the exchange and dissemination of ideas, findings and techniques relevant to gynecologic endoscopy and other minimally invasive procedures. The Journal, which presents research, clinical opinions and case reports from the ...

**Home Page: Journal of Minimally Invasive Gynecology**

In some cases, lymph nodes beyond that first sentinel lymph node may also be involved. Shah says a stage 2 designation may be warranted “because the tumor is bigger in size or there are lymph ...

**What Are the Stages of Breast Cancer? | U.S. News**

The mission of The Annals of Thoracic Surgery is to promote scholarship in cardiothoracic surgery patient care, clinical practice, research, education, and policy. As the official journal of two of the largest American associations in its specialty, this leading monthly enjoys outstanding editorial leadership and maintains rigorous selection standards.

**Home Page: The Annals of Thoracic Surgery**

Patients with aggressive cancer may have sentinel lymph node biopsy. Lesions that involve the bone require amputation. Mohs surgery can also be undertaken, though this is uncommon due to the time, expense and expertise required [9]. Radiotherapy and chemotherapy have not been shown to be effective in treating Marjolin ulcers. However ...

**Marjolin ulcer | DermNet NZ**

Sentinel lymph node biopsy may be discussed with patients with melanomas thicker than 0.8 mm. This can provide staging and prognostic information [9]. Amelanotic melanoma can metastasise (spread to distant sites such as lymph nodes or elsewhere in the body). These cases require individualised treatment that may include surgery, radiotherapy, ...

**Amelanotic melanoma - DermNet NZ**

About the Societies. The Association for Academic Surgery is widely recognized as an inclusive surgical organization. The impetus of the membership remains research-based academic surgery, and to promote the shared vision of research and academic pursuits through the exchange of ideas between senior surgical residents, junior faculty and established academic surgical professors.

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