



Lesson 17

N Category



Minimum Number – Sufficient Sampling



- Minimum number
 - Sufficient sampling to identify positive nodes
 - Eliminate false negatives
- Minimum to be examined can apply to
 - Number and
 - Location of nodes
- Requirements
 - Described in site chapters as appropriate
 - Detail common medical practice
- Sentinel nodes
 - If accepted as accurate for defining involvement, and
 - Sentinel node procedure performed
 - Minimum does NOT apply



pN when Minimum Not Met



- Lymph node surgery performed
 - Fewer than ideal minimum number examined
 - N category still generally classified as pN
- pN category assignment
 - Based on information available
 - Number of positive nodes and/or
 - Location of most advanced pathological node resected
 - Assigned even if minimum number or location criteria not met
- Impact of using pN in this situation
 - Importance of outcomes data analysis
 - Determine accuracy of nodal staging with less than minimum



Sentinel Node



- Sentinel node designation (sn)
 - Example: pN0(sn), pN1(sn)
 - Used when only a sentinel node biopsy is performed
 - Not used if further dissection of nodes is performed
- Breast chapter instructions for (sn)
 - Indicates nodal status based on less than axillary dissection
 - Used for sentinel node procedure
 - Used where sentinel & non-sentinel nodes are <6 nodes (less than standard low axillary dissection)
 - Do NOT use (sn) when >6 sentinel nodes removed
- Does not apply to registry coding of procedure or staging
 - Instructions only apply to physician assigning stage



Pathological Node Assessment



- Assigning pN
 - Pathological primary tumor assessment (pT) is
 - Generally necessary to assign pathological nodal assessment (pN)
- N categories
 - In conjunction with pT
 - Do NOT need pathological exam of highest N category to assign pN
 - Example:
 - Resection/path exam of N1 nodes only
 - No resection/path exam of N2 and N3 nodes
 - Assign pN1
 - Physician determines appropriate nodal resection for patient
 - N category criteria does not dictate nodal exam



Isolated Tumor Cells



- ITC
 - Single tumor cells or small clusters of cells
 - Clusters of cells < 0.2mm in greatest dimension
 - Identified by
 - Routine histology or immunohistochemistry (IHC)
 - Nonmorphologic techniques such as flow cytometry or DNA analysis
 - Designated as pN0 (i+)
 - Defined in chapters where this commonly occurs
- Nodes with only ITC are assigned pN0
- Exception: nodes with only ITC are assigned pN1 for
 - Melanoma
 - Merkel Cell





Developed through generous support from the American Cancer Society.







Thank You

