Protocol for the Examination of Specimens From Patients With Primary Malignant Tumors of the Heart

Protocol applies to primary malignant cardiac tumors. Hematolymphoid neoplasms are not included.

No AJCC/UICC TNM Staging System
Protocol web posting date: October 2009

Procedure
• Resection

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CAP Heart Protocol Revision History

Version Code
The definition of the version code can be found at www.cap.org/cancerprotocols.

Version: Heart 3.0.0.0

Summary of Changes
No changes have been made since the October 2009 release.
Surgical Pathology Cancer Case Summary

Protocol web posting date: October 2009

HEART: Resection

Select a single response unless otherwise indicated.

**Specimen**
- _Atrium_
- _Ventricle_
- _Interventricular septum_
- _Other (specify): _____________________________
- _Not specified_

**Procedure**
- _Resection_
- _Excisional biopsy_
- _Other (specify): _____________________________
- _Not specified_

**Specimen Integrity**
- _Intact_
- _Disrupted_
- _Indeterminate_

**Specimen Laterality**
- _Right_
- _Left_
- _Other (specify): _____________________________
- _Not specified_

**Tumor Site (select all that apply)**
- _Pericardium_
- _Right ventricle_
- _Left ventricle_
- _Right atrium_
- _Left atrium_
- _Interventricular septum_
- _Other (specify): _____________________________
- _Not specified_

**Tumor Size (Note A)**
- _Not applicable_
- Greatest dimension: ___ cm
- Additional dimensions: ___ x ___ cm
- Cannot be determined (see Comment)

+ Data elements preceded by this symbol are not required. However, these elements may be clinically important but are not yet validated or regularly used in patient management.
Histologic Type (Note B)

___ Angiosarcoma
___ Epithelioid hemangioendothelioma
___ Malignant pleomorphic fibrous histiocytoma (MFH)/Undifferentiated pleomorphic sarcoma
___ Fibrosarcoma
___ Myxoid fibrosarcoma
___ Rhabdomyosarcoma
___ Leiomyosarcoma
___ Osteosarcoma
___ Synovial sarcoma
___ Liposarcoma
___ Other (specify): ________________________

Histologic Grade (Note C)

___ Not applicable
___ Cannot be determined
___ Grade 1
___ Grade 2
___ Grade 3
___ Other (specify): ________________________

Tumor Extension (select all that apply)

___ Cannot be determined
___ No involvement of adjacent tissue(s)
___ Involvement of adjacent tissue(s) (specify): ____________________________
___ Other organ involvement (specify): ____________________________

Margins

___ Not applicable
___ Cannot be assessed
___ Negative for tumor
___ Involved by tumor
   Specify site(s), if known: ____________________________

Treatment Effect

___ Not applicable
___ Cannot be determined
___ Not identified
___ Present (specify: ___% residual viable tumor)

Lymph-Vascular Invasion

___ Present
___ Not identified
___ Indeterminate

+ Additional Pathologic Findings (select all that apply)
+ ___ None identified
+ ___ Inflammation
+ ___ Other (specify): ________________________

+ Comment(s)
Explanatory Notes

A. Staging
The greatest diameter of the tumor in centimeters should be recorded. There is no published staging system for primary cardiac tumors.

B. Histologic Type
For consistency in reporting, the histologic classification published by the World Health Organization (WHO) for tumors of the heart is recommended. The histologic types are listed in this protocol in the order they appear in the WHO classification. This protocol does not preclude the use of other systems of classification of histologic types.

C. Histologic Grade
Pathologists should grade the tumor and indicate the grading system used. Most malignant tumors of the heart are sarcomas. Necrosis of groups of cells and mitotic rates of greater than 5 mitoses per 10 high-power fields have been associated with reduced survival. Parameters of the grading system for sarcomas of the Fédération Nationale des Centres de Lutte Contre le Cancer (FNCLCC) are shown below.

Tumor Differentiation
Score 1: Sarcomas closely resembling normal adult mesenchymal tissue (e.g., low-grade leiomyosarcoma)
Score 2: Sarcomas for which histologic typing is certain (e.g., myxoid fibrosarcoma)
Score 3: Undifferentiated, angiosarcoma

Mitotic Count
Score 1: 0-9 mitoses per 10 HPF*
Score 2: 10-19 mitoses per 10 HPF
Score 3: ≥20 mitoses per 10 HPF

Tumor Necrosis
Score 0: No necrosis
Score 1: <50% tumor necrosis
Score 2: ≥50% tumor necrosis

Histologic Grade
Grade 1: Total score 2, 3
Grade 2: Total score 4, 5
Grade 3: Total score 6, 7, 8

* A high-power field (HPF) measure 0.1734 mm²
References


