Skin Malignancies

Education & Training Team
Collaborative Stage Data Collection System
Version 2.01

Merkel Cell Carcinoma

Learning Objectives

• Understand Merkel cell carcinoma

• Learn the CS codes

• Learn the site specific factors

• Able to correctly abstract and stage a Merkel cell carcinoma patient’s chart
Overview

• CS Tumor Size and Extension
• CS Lymph Nodes
• CS Mets at Dx
• Site Specific Factors

Merkel Cell Carcinoma

• What is it?
  – A rare aggressive type of skin cancer
• Incidence
  – 1200 new cases annually

MCC Presentation

• Presentation
  – Usually a firm painless lump that resembles a cyst, but is fixed
  – It can be red, pink or blue-violet
  – It grows rapidly
Merkel Cell Carcinoma

Image courtesy of Paul Nghiem, MD, PhD

Merkel Cell Carcinoma

Image courtesy of Paul Nghiem, MD, PhD

MCC Risk Factors

- Age >65
- Caucasian
- Prolonged sun exposure
- Arsenic exposure
- Immunosuppression
- Ultraviolet-A light (PUVA)
MCC Incidence by Age

MCC Pathology

• 3 subtypes
  – Intermediate (most common)
  – Small cell
  – Trabecular (least common)

Intermediate Type of MCC

Image courtesy of Paul Nghiem, MD, PhD
MCC Treatment

- Wide excision with 1 to 2.5 cm margins
  - Depending on site

- Sentinel node biopsy
  - If nodes are not palpable

- Bx of palpable lymph nodes & lymphadenectomy

- Radiotherapy
  - Primary site
  - Draining lymph node basin
CS Tumor Size

- 000  No mass found
- 001-988  001-988 mm, code exact size
- 989  989 mm or larger
- 990  Microinvasion; micro focus or foci only, no size of focus given
- 991  Described as <1 cm
- 992-996  Inexact size special codes

CS Extension

- 000  In situ, non-invasive
- 100  Confined to dermis
- 400  Localized NOS
- 500  Sub Q tissue - through the entire dermis
CS Extension

- 600 Stated as T1
- 610 Stated as T2
- 620 Stated as T3
- 700 Underlying cartilage, bone, skeletal muscle, fascia
- 800 Further contiguous extension
- 950 No evidence of primary tumor

CS Tumor Size/Extension Eval

- Unchanged from standard table

CS Lymph Nodes

- 000 No regional node involvement
- 100 Regional nodes by primary site
- 200 Head and neck nodes
- 300 Code 100 + 200
- 320 Stated at N1a with no other information
- 340 Stated as N1b with no other information
CS Lymph Nodes

- 360 Stated as N1 NOS
- 400 In-transit met WITHOUT nodal met or involvement of nodes not stated
- 420 In-transit met WITH nodes in code 100
- 440 In-transit met WITH nodes in code 200
- 800 Lymph nodes NOS
- 999 Unknown; not stated

CS Lymph Node Eval

- New rules for AJCC 7th Edition necessitated changes

MX Eliminated

- MX has been eliminated from 7th Edition
  - Clinical M0
  - Unless clinical or pathologic evidence of mets

- cM only requires history and physical

- Infer cM0 unless known cM1
### CS Mets at Dx

- **00** None
- **10** Distant node(s)
- **15** Mets to skin or subQ tissue
- **20** Stated as M1a with no other information
- **30** Lung
- **35** 30 + 10 or 15
- **37** Stated as M1b with no other information
- **40** All other visceral sites. Carcinomatosis.
  - Distant mets except as listed before
- **52** 40 + any of 10, 15 or 30
- **55** Stated as M1c with no other information
- **60** Distant mets NOS
  - Stated as M1 NOS
- **99** Unknown

### CS Mets Eval

- Unchanged from standard table
Mets at Dx-Metastatic Sites

- 4 new fields
  - Bone excluding marrow
  - Lung excluding pleura and pleural fluid
  - Brain excluding spinal cord and other CNS
  - Liver

- Code 0 when CS Mets at Dx is 00

- Code structure
  0 – No
  1 – Yes
  8 – Not applicable
  9 – Unknown

SSF1 Measured Thickness (Depth)

- Code exact size in TENTHS of mm

- 001-979 00.1 – 97.9 mm
- 980 98 mm or larger
- 998 No histologic exam of primary site
- 990 Microinvasion; microscopic focus or foci only, and no size given

SSF 3 Clinical Assessment Positive Nodes

- 000 No nodal mets or in-transit mets WITHOUT regional node involvement
- 010 Clinically occult nodes only (micromets)
- 020 Clinically apparent nodal mets (macromets)
- 999 Unknown, not stated, not documented in chart
### SSF 16 Size of Mets in Nodes

- **Record largest mets in node in hundredths of mm**
  - 001-979 0.01 – 9.79 mm
  - 980 9.80 mm or larger
  - 990 Mets or tumor nests in regional nodes, size cannot be assessed
  - 998 No histologic exam of primary site

### SSF 17 Path Nodal Extracapsular Extension

- **No extracapsular extension clinically AND extracapsular extension present on pathology**
  - 010

- **No extracapsular extension clinically AND not present or not stated on pathology**
  - 020

- **No extracapsular extension clinically AND nodes not assessed pathologically**
  - 030

- **Extracapsular extension clinically AND extracapsular extension on path**
  - 040

- **Extracapsular extension clinically AND not present or not stated on path**
  - 050

- **Extracapsular extension clinically AND nodes not assessed pathologically**
  - 060
SSF 17 Path Nodal Extracapsular Extension

- 070 Extracapsular extension clinically unknown AND extracapsular extension present on path
- 080 Extracapsular extension clinically unknown AND extracapsular extension not present or not stated on path
- 090 Extracapsular extension clinically unknown AND nodes not assessed pathologically

SSF 17 TABLE

<table>
<thead>
<tr>
<th>CODE</th>
<th>Clinical Extracapsular Extension</th>
<th>Pathologic Extracapsular Extension</th>
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</thead>
<tbody>
<tr>
<td>010</td>
<td>Neg</td>
<td>Pos</td>
</tr>
<tr>
<td>020</td>
<td>Neg</td>
<td>Neg/not stated</td>
</tr>
<tr>
<td>030</td>
<td>Neg</td>
<td>Not assessed</td>
</tr>
<tr>
<td>040</td>
<td>Pos</td>
<td>Pos</td>
</tr>
<tr>
<td>050</td>
<td>Pos</td>
<td>Neg/not stated</td>
</tr>
<tr>
<td>060</td>
<td>Pos</td>
<td>Not assessed</td>
</tr>
<tr>
<td>070</td>
<td>Unknown</td>
<td>Pos</td>
</tr>
<tr>
<td>080</td>
<td>Unknown</td>
<td>Neg/not stated</td>
</tr>
<tr>
<td>090</td>
<td>Unknown</td>
<td>Not assessed</td>
</tr>
</tbody>
</table>

SSF 18 Isolated Tumor Cells (ITC) in Nodes

- 000 Negative on H&E, ITC not present by IHC, unknown if tested by IHC. Nodes clinically negative, not examined pathologically. IHC stains used are CK20, CAM5.2, pancytokeratins
- 010 Nodes negative on H&E and IHC and ITCs not present
- 020 Nodes negative on H&E, + on IHC, and ITCs are present
SSF 18 Isolated Tumor Cells (ITCs) in Nodes

- 090: Regional nodes negative on H&E, positive for tumor detected by IHC, size of tumor cells not stated
- 100: Regional nodes positive with ITCs on H&E
- 200: Regional nodes positive with ITCs NOS method of detection not stated
- 300: Regional nodes positive other than ITCs (tumor cells > 0.2 mm)

SSF 19 Tumor Transection Status

- 000: No mass/tumor found
- 010: Tumor base transected
- 020: Tumor base not transected
- 998: No histologic exam of primary site
- 999: Unknown, not documented in chart

SSF 20 Tumor Infiltrating Lymphocytes (TIL)

- TIL in the primary tumor
  - Special cancer-fighting cells of immune system
  - Level of infiltrates at base of vertical growth phase
- 010: TIL present, non-brisk
- 020: TIL present, brisk
- 030: TIL present NOS
- 998: No histologic specimen
SSF 21 Growth Pattern of Primary Tumor
• 010 Circumscribed/nodular
• 020 Diffusely infiltrative
• 030 Sample inadequate to evaluate or comment as stated the path report

SSF 22 Profound Immunosuppression
• 000 No immune suppression conditions
• 010 HIV/AIDS
• 020 Solid organ transplant recipient
• 030 CLL
• 040 Non-Hodgkin lymphoma
• 050 More than one of the above
• 060 Other specified diagnosis resulting in profound immunosuppression
• 070 Profound immunosuppression present, diagnosis not recorded
Merkel Cell Carcinoma

- A rare but aggressive tumor
- Incidence is increasing
- Specific stains to determine the diagnosis
- Clinical lymph node status an important prognostic factor

Melanoma

Learning Objectives

- Learn the differences between CSv1 and CSv2
- Be able to correctly abstract and stage a melanoma patient’s chart
Overview

• Changes from CSv1 to CSv2
• CS Tumor Size and Extension
• CS Lymph Nodes
• CS Mets at Dx
• Site Specific Factors

CS Tumor Size

• 001-988  001-988 mm (exact size in mm)
• 989  989 mm or larger
• 990  Micro focus or foci, no size of focus given
• 991  Described as <1 cm
• 992  <2 cm or >1 cm or between 1-2 cm
      T1 NOS with no documentation of tumor size
• 993  <3 cm or >2 cm or between 2-3 cm
      T2 NOS with no documentation of tumor size
• 994  <4 cm or >3 cm or between 3-4 cm
• 995  <5 cm or >4 cm or between 4-5 cm
• CS Tumor Size Eval unchanged
CS Extension

• 000  In situ, non-invasive, intradermal, Clark level I
• 100  Papillary dermis invaded, Clark level II
• 200  Papillary- reticular dermal interface invaded, Clark level III
• 300  Reticular dermis invaded, Clark level IV
• 400  Skin/dermis NOS, Localized NOS
• 500  SubQ tissue invaded, Clark level V

CS Extension

• 800  Further contiguous extension, Underlying cartilage, bone, skeletal muscle
• 950  No evidence of primary tumor
• 999  Unknown extension, Primary tumor cannot be assessed (e.g. shave biopsy or regressed melanoma)
• CS Tumor Size/Extension Eval unchanged
CS Lymph Nodes

- 100 Regional nodes by primary site
- 120 Head and neck nodes
- 130 Satellite nodules or in-transit mets NOS (distance from primary site not stated) WITHOUT regional node involvement or regional node involvement not stated

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CS Lymph Nodes

- 140 Satellite nodule(s) or in-transit mets ≤ 2 cm from primary WITHOUT regional node involvement or node involvement not stated
- 150 Satellite nodule(s) or in-transit mets >2 cm from primary WITHOUT regional node involvement or involvement not stated
### CS Lymph Nodes

- 170 Matted nodes in code 100
- 180 Matted nodes in code 120
- 200 Satellite nodule(s) or in-transit mets WITH regional nodes in code 100
- 220 Satellite nodule(s) or in-transit mets WITH regional nodes in code 120
- 800 Lymph nodes NOS

### MX Eliminated

- MX has been eliminated from 7th Edition
  - Clinical M0
  - Unless clinical or pathologic evidence of mets
- cM only requires history and physical
- Infer cM0 unless known cM1

### CS Mets at Dx

- 05 Underlying cartilage, bone, skeletal muscle
- 10 Distant lymph nodes
- 40 Distant metastasis NOS
- 42 Mets to skin or subQ tissue beyond regional nodes
- 43 Lung
CS Mets at Dx

- 44  All other visceral sites
  Carcinomatosis
  Other distant sites

- 52  10 + 42

- 53  10 + 43

- 54  10 + 44

Mets at Dx-Metastatic Sites

- 4 new fields
  - Bone excluding marrow
  - Lung excluding pleura and pleural fluid
  - Brain excluding spinal cord and other CNS
  - Liver

- Code 0 when CS Mets at Dx is 00

- Code structure
  0 – No
  1 – Yes
  8 – Not applicable
  9 – Unknown

SSF1-3 Unchanged

- SSF1 Depth of Invasion
  - Code exact size in hundredths of mm

- SSF2 Ulceration
  - No mention of ulceration in path report – assume no ulceration

- SSF3 Clinical Status of Lymph Node Mets
  - Code 000 No lymph node mets OR
  - Code 000 Satellite lesion or in-transit mets without nodes
SSF4 LDH

- 000 Test not done
- 002 Within normal limits
- 004 Range 1 1.5 x normal limit OR elevated NOS
- 005 Range 2 1.5 – 10 x normal limit
- 006 Range 3 more than 10 normal limit
- 008 Test ordered, results not in chart

SSF5 LDH Value

- Code value of LDH
  - Prior to treatment or within 6 weeks of diagnosis
  - Give priority to the earliest tests performed
- Code value from same test used in SSF 4
- Record actual value for values 001 through 800
- Record range for values 801 and greater
  - Codes 801 – 825 are ranges in intervals of 20
  - Codes 826 – 863 are ranges in intervals of 50
  - Codes 864 - 921 are ranges in intervals of 100
  - Code 922 is a value of 10001 or greater

SSF5 LDH Value

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>060</td>
<td>Actual value of 60</td>
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<tr>
<td>801</td>
<td>Value 801 to 820</td>
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<tr>
<td>864</td>
<td>Value 3201 to 3300</td>
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<tr>
<td>899</td>
<td>Value 7701 to 7800</td>
</tr>
<tr>
<td>922</td>
<td>Value is 10001 or greater</td>
</tr>
<tr>
<td>995</td>
<td>Stated as within normal limits, no other info</td>
</tr>
<tr>
<td>996</td>
<td>Stated as elevated, no other info</td>
</tr>
<tr>
<td>997</td>
<td>Test ordered, results not in chart</td>
</tr>
<tr>
<td>998</td>
<td>Test not done</td>
</tr>
</tbody>
</table>
SSF6 LDH Upper Limits of Normal

- Record upper limits of normal for LDH
- Upper limit of normal varies based on the lab
- 001-979  Upper limit of normal is 001-979
- 997  Upper limit of normal not in chart
- 998  Test not done
- 999  Unknown, no documentation

SSF7 Primary Tumor Mitotic Count/Rate

- 000  Mitotic rate <1 per millimeter squared
- 001-010  1-10 per millimeter squared
- 011  11 millimeter squared or greater
- 998  No histologic exam of primary site
- 999  Unknown, not stated, not documented

SSF8 Primary Tumor Regression

- Not identified should be coded as absent
- 000  No regression
  Regression not identified
  Regression absent
- 001  Regression present
- 999  Unknown, not stated, not documented
SSF9 Vertical Growth Phase

- Not identified should be coded as absent
- 000   No vertical growth phase present
  Vertical growth phase not identified
  Vertical growth phase absent
- 001   Vertical growth phase present
- 999   Unknown, not stated, not documented

Melanoma

- Addition of 5 new site specific factors
- T category is now based on
  - Depth of invasion
  - Ulceration
  - Mitotic rate

Inquiry & Response System

- Submit questions to Inquiry & Response System
  - Allows tracking for educational purposes
  - Provides information for all
- http://web.facs.org/coc/default.htm