



# PAD Resident Symposium Re-Evaluating Tumor Staging in Merkel Cell Carcinoma

Dylan Haynes, MD, MCR 9/21/23

How Did We Arrive at T Staging for MCC in AJCC?



🐺 Penn Medicine 🛛 3



Penn Medicine 4



🐺 Penn Medicine 🛛 5





🐺 Penn Medicine 🛛 7





🞇 Penn Medicine 🛛 🤊

9



Renn Medicine 10

# AJCC T Staging for MCC Hasn't Changed in 50 Years



#### ▶ TRS-80

- 4 KB of memory
- \$3,000 (inflation adjusted)



Cigarettes in Hospitals
Outlawed by JCAHO in 1993

🐺 Penn Medicine 🛛 🖽

Can We Be Doing Better for Our Patients?



# Correlating Survival with Tumor Size

National Cancer Database. Participant User File 2020 Submission.

13

# Increased Granularity of Tumor Size Predicts 5-Year Survival



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

🐺 Penn Medicine 14



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

# Increased Granularity of Tumor Size Predicts 5-Year Survival



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

🞇 Penn Medicine 16



Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

# Increased Granularity of Tumor Size Predicts 5-Year Survival



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

Renn Medicine 18



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

# Increased Granularity of Tumor Size Predicts 5-Year Survival



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

🞇 Penn Medicine 20



Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

# Increased Granularity of Tumor Size Predicts 5-Year Survival



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

Renn Medicine 22



#### Incidence of MCC is Rising, Particularly for Smaller Tumors

Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (1990-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.

### Incidence of MCC is Rising, Particularly for Smaller Tumors



Surveillance, Epidemiology, and End Results (SEER) Program (<u>www.seer.cancer.gov</u>) SEER\*Stat Database: Incidence - SEER Research Data, 17 Registries, Nov 2021 Sub (1975-2020) - Linked To County Attributes - Time Dependent (190-2020) Income/Rurality, 1969-2020 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2023, based on the November 2022 submission.



#### Incidence of MCC is Rising, Particularly for Smaller Tumors

# Conclusions

# ►T staging for MCC hasn't changed in roughly 50 years

- Smaller tumors are increasing in incidence
- Smaller tumors have distinct survival profiles

🐺 Penn Medicine 26

# Conclusions

- ►T staging for MCC hasn't changed in roughly 50 years
- Smaller tumors are increasing in incidence
- Smaller tumors have distinct survival profiles

Penn Medicine 27

# Conclusions

- ►T staging for MCC hasn't changed in roughly 50 years
- Smaller tumors are increasing in incidence
- Smaller tumors have distinct survival profiles

🐺 Penn Medicine 28

Smaller Tumor Sizes May Be More Appropriate for AJCC T Staging of MCC

### Acknowledgments

#### Penn Dermatology

- Program Directors
  - Misha Rosenbach, MD (PD)
  - Sara Samimi, MD (APD)
- Coresidents
  - Especially those here today
- Chair
  - George Cotsarelis, MD
- PennDOC Faculty
  - Christopher Miller, MD
  - H. William Higgins, MD, MBE
  - Joseph Sobanko, MD
  - Cerrene Giordano, MD
  - Jun Zhang, MD
  - Joanna Walker, MD
  - Jeremy Etzkorn, MD

#### Personal

- Taylor Reiter, PhD
- Alison Loren, MD; Rachel Cook, MD
- Others
  - Pennsylvania Academy of Dermatology
  - Surveillance, Epidemiology, and End Results (SEER)
  - National Cancer Database (NCDB)
  - American Joint Committee on Cancer (AJCC)
  - Stata

#### 🐺 Penn Medicine 🛛 30

# 🐺 Penn Medicine



Breslow Depth Does Not Correlate with 5-Year Survival



National Cancer Database. Participant User File 2020 Submission.