Poster #: 54

Title of Abstract: **Cutaneous malignant melanoma: a spectrum of disease uniquely suited for evaluation with FDG PET/CT**

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Modality: PET

Organ System: Multi

Intro: N/A

Purpose: N/A

Methods Used: N/A

Results of Abstract: N/A

Discussion: N/A

Scientific and/or Clinical Significance? N/A

Relationship to existing work N/A

Purpose: Cutaneous malignant melanoma is a notoriously unpredictable disease, with a broad range of imaging findings and respective clinical implications. Evaluation with combined FDG PET/CT increases sensitivity for detection of occult metastatic foci. This exhibit will review the appearance of metastatic cutaneous melanoma and illustrate the importance of combined PET/CT evaluation with specific case examples. Content Organization: Accurate staging of cutaneous melanoma is critical for determination of management and prognosis. A systematic review of current literature demonstrating the role of PET/CT for evaluation of cutaneous melanoma will be presented. The myriad appearance of metastatic disease in cutaneous melanoma will be illustrated with specific FDG PET imaging. Comparative anatomic images will be presented to highlight the difficulty of accurate lesion characterization without the addition of functional evaluation. Potential pitfalls in diagnosis based on either anatomic or functional imaging alone will be demonstrated with specific examples. Major Teaching Points: The superiority of combined PET/CT in comparison to anatomic or functional imaging alone has been supported by data from multiple small population case series over the last decade as well as pooled data from recent meta-analyses. Familiarity with the appearance of metastatic cutaneous melanoma on PET/CT and a high level of suspicion in evaluation of this patient population is emphasized, as there is a potential for major clinical impact.