



Biomedical Informatics Grand Rounds



Methodological Rigor in Surgical AI: Bias, Validation, and a Multimodal Risk Model in Development

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**Wednesday, Oct. 14th, 2026
3:00 pm - 4:00 pm**

Remote Access

Join Zoom meeting

<https://stonybrook.zoom.us/j/95617197636?pwd=KytzZ2pVRG9SZGpKZUtpNXJISjNjZz09>

Meeting ID: 95617197636

Passcode: 924293

Educational objectives:

1. Describe how bias enters AI systems across the development pipeline, using aesthetic facial evaluation as a case study, and identify mitigation strategies applicable at each stage.
2. Apply the PROCAST+AI risk-of-bias framework to critically appraise the methodological quality of a published prediction model using regression or machine learning methods.
3. Compare the discriminative performance of multiple modeling architectures against an existing clinical risk calculator on a large benchmarking dataset.
4. Recognize the complementary roles of clinical expertise and informatics methodology in defining clinically meaningful AI project objectives, predictors, and evaluation criteria.

Disclosure Statement: The faculty and planners have no relevant financial relationship with ineligible companies, whose primary business is producing, marketing, selling, reselling, or distributing health care products used by or on patients.

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