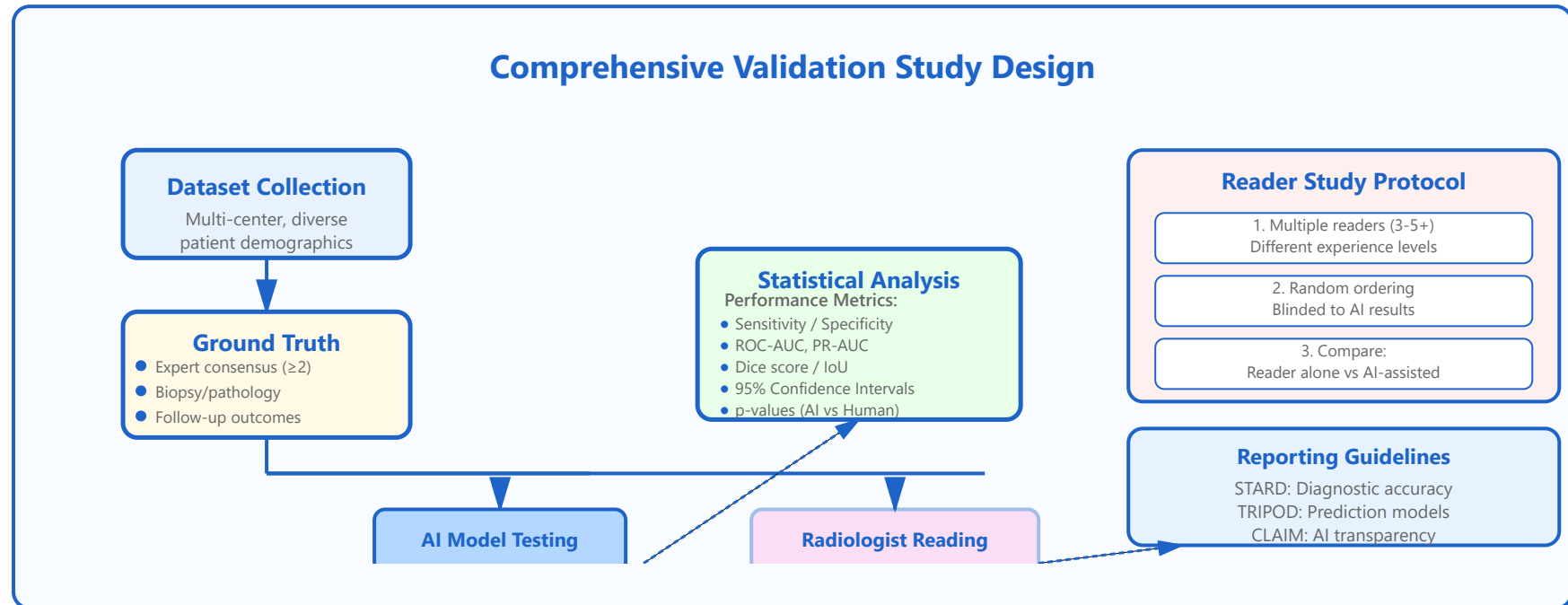


Validation Studies



Study Design

Retrospective vs prospective. Multi-center validation for generalizability

Ground Truth

Reference standard definition. Expert consensus, biopsy confirmation, follow-up outcomes

Reader Studies

Compare AI to radiologists. Multiple readers, random ordering, statistical testing

Statistical Analysis

ROC curves, sensitivity/specificity. Confidence intervals and significance testing

Reporting Guidelines

STARD, TRIPOD, CLAIM. Standardized reporting for reproducibility