

Construction of a Benchmark for Breast Ultrasound AI Interpretation and Performance Evaluation of Multimodal AI Models

NCT07500428

Status	RECRUITING
Sponsor	Peking Union Medical College Hospital
Enrollment	1,380 participants

Key Eligibility Criteria

Inclusion (4)

- B-mode breast ultrasound grayscale images from the institutional PACS database or from published open-access breast ultrasound datasets with documented original institutional ethics approval
- Image quality adequate for clinical diagnosis with clear visualization of the region of interest
- Pathological diagnosis confirmed (for benign and malignant lesion groups), or normal breast status confirmed by a senior radiologist with >15 years of breast ultrasound experience (for the normal group)
- Complete de-identification with removal of all personally identifiable information

Exclusion (5)

- Severely degraded image quality precluding meaningful BI-RADS assessment
- Duplicate images from the same patient (only the most representative image retained per lesion)
- Images with residual personally identifiable information after de-identification processing
- Cases with ambiguous, disputed, or unavailable pathological results
- Non-B-mode ultrasound images, including elastography, contrast-enhanced ultrasound, and Doppler imaging

Locations (1 total)

Peking Union Medical College Hospital, Beijing, China