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| Table S1. Descriptions of discrete event simulation models. | |
| Name | Description |
| Operating hours | Time imaging center stops patient check-in and closes each day |
| Patient arrival | The patient arrives at the clinic. |
| Patient check-in | The patient checks in. |
| Public waiting room | The patient sits in the outer public waiting room. |
| Consent room | Consent obtained by LVN/trainee |
| Dressing room | The patient changed into a gown; The patient changes into street clothes and leaves the facility. |
| Gowned waiting room | The patient waits in the gowned waiting room. |
| AI assessment (revised workflow only) | The AI tool establishes preliminary results, confirmed by a radiologist |
| 2D/3D Screening mammography | The mammo technician walks the patient to a mammo room; The mammo technician performs a screening mammogram; The mammo technician cleans the mammo room. |
| Diagnostic imaging | The mammo/US technician walks the patient to a/an mammo/US room; The mammo/US technician performs a diagnostic mammogram, diagnostic US, or diagnostic mammogram + diagnostic US, reviewed by a radiologist;  The mammo/US technician cleans the mammo/US room. |
| Core needle biopsy | The mammo/US technician walks the patient to a/an mammo/US room; The mammo/US technician performs a diagnostic mammogram or diagnostic US;  The LVN/trainee positions and preps the patient’s breast; The attending radiologist performs a biopsy; The LVN/trainee holds pressure (hemostasis) and explains post-biopsy care instructions; The US technician transfers the patient to a mammo room and cleans the US room (if US-guided biopsy); The mammo technician performs a post-biopsy mammogram, reviewed by a radiologist; The mammo technician cleans the mammo room. |
| **Abbreviations:** LVN: licensed vocational nurse; AI: artificial intelligence; 2D: two-dimensional; 3D: three-dimensional; mammo: mammography; US: ultrasound. | |