

Bedsores Management



>> Patients in long-term care, elderly care, or recovering from surgery often lie in bed for long stretches, and constant pressure on the skin causes bedsores to develop in stages.

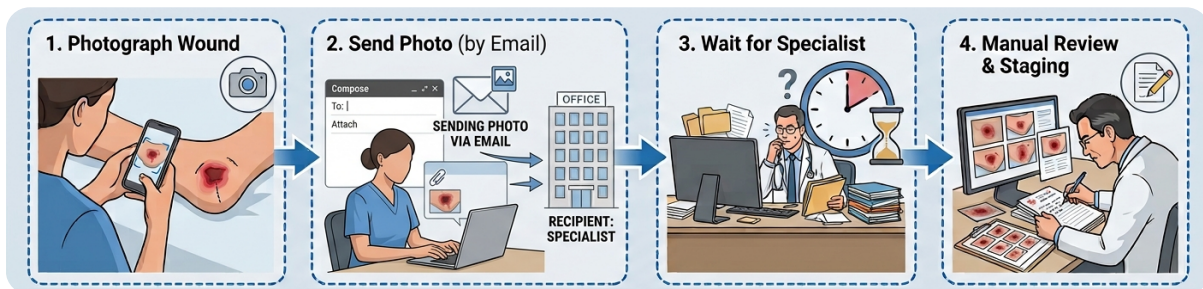
[Case study] Ajou University Hospital



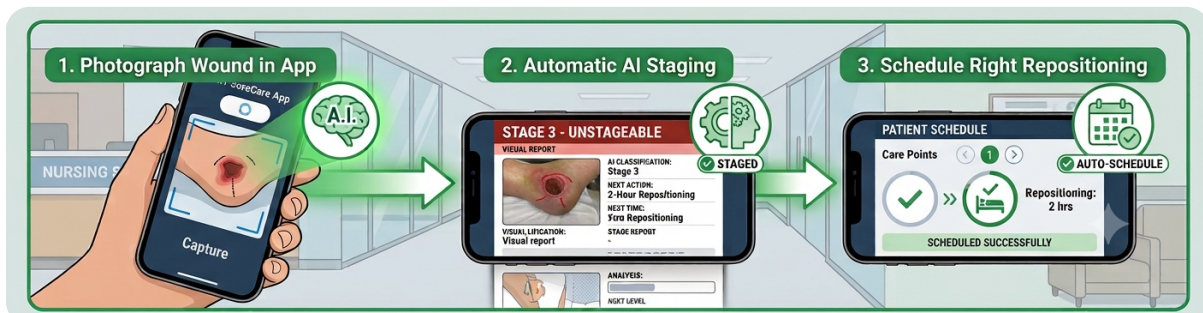
>> For years, ward nurses at Ajou University Hospital manually photographed bedsores and emailed them to an off-site specialist. That routine built a rich clinical dataset, which Ajou University Hospital and People&Technology turned into the AI behind a faster, more consistent way to stage bedsores.

From manual workflow to automated care

Ajou's original process



PnT Bedsores management solution



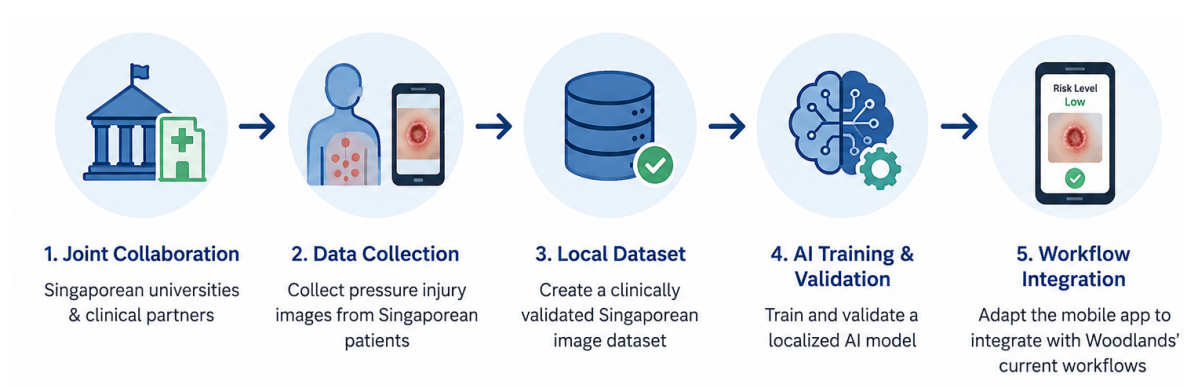
Benefits

- Consistent, objective wound staging, independent of who is on duty
- Faster specialist input, without waiting on a phone call
- Automatic repositioning schedules that avoid repeating the same position
- A complete, time-stamped photo history for every patient
- Especially valuable for long-term care hospitals and nursing homes

Proposed research collaboration

Our current AI model has been primarily trained on Korean patient data. However, clinical presentation of pressure injuries varies across populations, including differences in skin tone and genetic background. To address this gap, we propose a **joint academic research collaboration with Singaporean universities and clinical partners**, in collaboration with Woodlands, to:

- Develop a clinically validated image dataset of pressure injuries from Singaporean patients
- Train and validate a localized AI model using this dataset
- Adapt the mobile application to align with Woodlands' clinical workflows



Bed fall prevention

The same platform can extend risk-based care to fall prevention alongside pressure injury management, without a separate system to learn.

Automatic fall-risk screening on admission

Real-time alerts if a patient leaves a safe area or strays from a caregiver

Scheduled toileting-round reminders, a common fall trigger