# SUPPORT+ AID: Enhancing Community Palliative Care for Advanced Cancer Patients via AI-Enabled Mobile App

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**Intellectual property:**
Dr. WL Chan,
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## Background

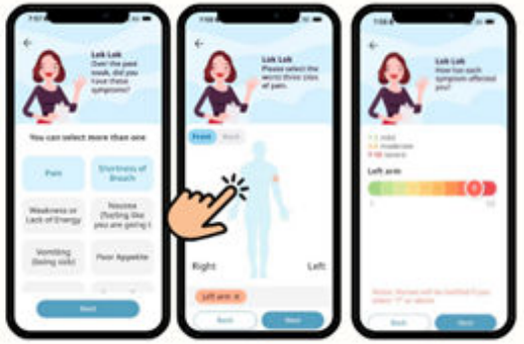
- SUPPORT+ is a mobile app developed by HKU Clinical Oncology with healthcare and community experts to support advanced cancer patients and caregivers in home-based symptom management.
- It features education resources, symptom tracking with automated advice, and real-time nurse consultation.
- It has been proven in RCT to improve quality of life and reduce emergency room (ER) visits and hospitalisation.

## Technology

- Integrate AI into SUPPORT+ to scale care delivery and enhance responsiveness
- AI functions proposed:
  - **Smart Search:** AI-assisted navigation of app and website resources
  - **Symptom Track and Chatbot:** Real-time, personalized guidance with AI for symptom tracking and self-management
  - **Emergency Triage:** AI detects critical symptoms and directs urgent care actions

家支援應用程式 SUPPORT+ App

SUPPORT 家支援



## Opportunity

- First AI-driven palliative care model for advanced cancer patients in the community
- Research potential and expandable to other chronic illness and aging populations

## Stage of development

- Currently in collaboration with the team in Department of Computer Science & Engineering, Monash University and Department of Surgery, HKU
- Now at early AI training phase using the content in SUPPORT+
- Cost estimation in progress.
- **Next steps:**
  - Prototype testing of AI chatbot
  - Feasibility and user acceptance study
  - RCT comparing AI-enhanced SUPPORT+ vs. nurse-led care

## Key Advantage

- AI learns from existing SUPPORT+ content to deliver accurate advice
- Chatbot offers 24/7 symptom guidance, reducing reliance on office-hour nurse access
- Potential further reduces ER visits and hospitalisation rates
- Potential reduce nursing manpower and healthcare system resources