

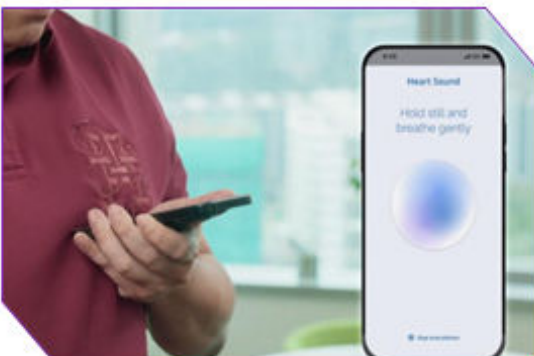
# Smartphone-based AI stethoscope for heart disease screening



Principal Investigators: [Prof Chun-Ka Wong](#) (HKU/QMH Cardiology, Medicine), [Prof Joshua Ho](#) (HKU Biomed. Sci. / Vitome), [Dr Edwin Lau](#) (Gleneagles Hospital HK)

## Technology

Vitogram®, is a FDA-registered, award-winning smartphone-enabled digital platform that uses a patented AI technology to turn a user's own mobile phone into a digital stethoscope, opening up the possibility to use heart sound for screening and monitoring of cardiovascular diseases, including valvular heart disease, congenital heart disease, and cardiac arrhythmias.



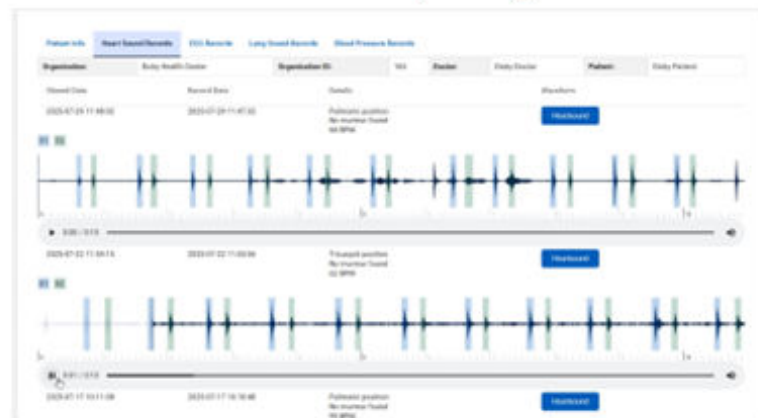
HSBC Life Magazine 2024

## Key Advantages

**Easy to deploy:** technology accessible via mobile app – no additional devices needed.

**Award-winning technology and company:**  
2024 Gold Medal with congratulations of Jury, 49<sup>th</sup> International Exhibition of Invention Geneva  
2025 AI+ in Business (SME) Excellence Award  
2025 HK ICT Award (Silver) (**embargo!**)

**ISO certifications (Vitome):**  
ISO9001 Quality Management Systems  
ISO27001 Information Security Management



## Stage of Development

### Technology ready for deployment:

- FDA class 1 medical device
- Vitome Limited established since May 2023.
- Industry-level software (iOS+Android app, backend, web portal for data management) fully deployable

### Clinical validation:

- Valvular Heart Disease (502 patients), study completed, abstract submitted to ACC 2026
- Heart rate and heart rate recovery (50 subjects), study completed, oral presentation at HKCCM ASM 2025
- Atrial fibrillation (expect 200 patients), on-going

## Opportunities

### Business development:

B2B2C strategy: Distributor, and collaboration agreements signed with partners in HK and Malaysia. Planned deployment with Gleneagles Hospital to pilot deployment in disease screening and telemedicine



## Intellectual Property

**Patent:** A health diagnostic system and method for analyzing the health of an animal (Owned by HKU)  
HK Short-term patent – *granted*  
US non-provisional, China, Taiwan, PCT *filed*.

**Technology licensed** to Vitome Limited already  
**Trademarks:** Vitome®, Vitogram®, ausculto®

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