
Philips Adds Haemodynamics to its Point-Of-Care Ultrasound System



Philips expands access to haemodynamics at point-of-care for real-time blood flow assessment on Handheld Ultrasound – Lumify

- Philips point-of-care ultrasound technology now includes Pulse Wave Doppler for all physicians – from cardiologists and radiologists to emergency care – to quickly assess haemodynamics in cardiac function anytime, anywhere.
- Lumify is also the first and only handheld ultrasound with B-lines software and smart algorithms to enhance heart and lung assessment in severe COVID cases and more.

Amsterdam, the Netherlands – Royal Philips (NYSE: PHG, AEX: PHIA), a global leader in health technology, today announced it has expanded its ultrasound portfolio with advanced haemodynamic assessment and measurement capabilities on its handheld point-of-care ultrasound – Lumify. With the addition of Pulse Wave Doppler [1], Philips has greatly expanded the utility of its Handheld Ultrasound – Lumify – enabling clinicians to quantify blood flow in a wide range of point-of-care diagnostic applications – including cardiology, vascular, abdominal, urology, obstetrics and gynaecology. Also new to Lumify are obstetric measurements to help in early assessment of gestational age and the identification of high-risk pregnancies.

Point-of-care haemodynamics

Pulse Wave Doppler ultrasound provides clinicians with more information, in addition to 2D and colour imaging, to assess haemodynamic patterns to differentiate between arterial and venous blood flow and quantify haemodynamic function. The resulting haemodynamic measurements can enhance diagnostic confidence and timely clinical decision-making in virtually any care setting, including cardiology and emergency medicine. With these latest features, Philips' easy-to-use fully integrated handheld ultrasound system – Lumify – brings together imaging tools across ultrasound platforms, leveraging the company's expertise in cardiology and radiology. The Lumify system also provides clinicians with advanced analysis software and reporting tools, and access to tele-ultrasound capabilities (Lumify with Collaboration Live powered by Reacts) for live communication support to connect clinicians around the globe for real-time collaboration.

"By applying Philips' expertise in cardiovascular care, imaging and patient monitoring to Philips Handheld Ultrasound – Lumify – we are committed to deliver a dedicated, innovative point-of-care portfolio, enabling clinicians to quickly assess haemodynamics – including cardiovascular function, organ perfusion and fetal assessment – in a daily routine, to identify abnormalities and intervene quickly," said Matthijs Groot Wassink, General Manager of Point of Care Ultrasound at Philips. "With the addition of Pulse Wave Doppler and enhanced obstetrics measurements, we have increased the number of markers on which diagnoses can be made, to deliver high quality imaging and enhance the evaluation and effectiveness of treatment in real-time."

"Having Colour Flow Doppler (CFD) and Pulse Wave Doppler on a handheld device is game-changing, allowing clinicians to take point-of-care ultrasound examinations to the next level."

Dr Robert Jones

Professor of Emergency Medicine at the MetroHealth System, Cleveland, Ohio in the U.S.A.

"Having Colour Flow Doppler (CFD) and Pulse Wave Doppler on a handheld device is game changing, allowing clinicians to take point-of-care ultrasound examinations to the next level," said Dr. Robert Jones, Professor of Emergency Medicine at the MetroHealth System, Cleveland, Ohio in the U.S.A. Dr. Jones will discuss the clinical advantages and benefits of integrating CFD and Pulse Wave Doppler into the point-of-care ultrasound evaluation of acutely ill and injured patients in the Emergency Department in an upcoming webinar.

Philips B-lines software enhances heart and lung assessments in handheld ultrasound

In addition to adding Pulse Wave Doppler for haemodynamics, Philips is the first and only point-of-care ultrasound solution with B-lines (B-line quantification tool for ultrasound lung imaging) software and intelligent algorithms to enhance heart and lung assessments, which is critical when dealing with severe COVID cases. The pandemic has shown the relevance of lung ultrasound in the diagnosis and treatment of pneumonia, one of the most common complications of COVID-19. AI-enhanced automated algorithms looking for B-lines in lung fluid can help provide more objective data and interpretation.

Increased access to quality care

The continuous scanning, performance and portability of Philips Handheld Ultrasound – Lumify – brings a full diagnostic solution to care professionals at the bedside; both in and outside of the hospital. The innovative technology is also in widespread use in community-based mother and child care programs, providing access to quality healthcare for underserved communities worldwide, including a program in Kenya

driven by the Philips Foundation to educate midwives to deliver ultrasound-based antenatal pregnancy screening in village clinics, while receiving telehealth support from radiologists at distance.

For more information on the award-winning Philips Handheld Ultrasound – Lumify – and its tele-ultrasound capabilities (Lumify with Collaboration Live powered by Reacts), visit Philips point-of-care ultrasound for the latest on high-quality portable imaging.

Source: [Philips](#)

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