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## Philips and Diagnostics Development win European Union 'Horizon Prize - Better Use of Antibiotics'



- *Philips and Diagnostics Development, a P&M Venge company, evaluate the novel human neutrophil lipocalin (HNL) biomarker for the rapid detection of bacterial infection*
- *Based on Philips' Minicare I-20 handheld diagnostics platform, the Minicare HNL assay is recognized for its potential to provide physicians with 10-minute confirmation of bacterial infection, helping to ensure that antibiotics are only prescribed to patients who need them*

Royal Philips (NYSE: PHG, AEX: PHIA), a leader in HealthTech, and Diagnostics Development, a P&M Venge company spin-off from Uppsala University (Sweden), have demonstrated a proof-of-concept for the rapid and reliable detection of bacterial infection. The test is based on Philips' Minicare I-20 handheld diagnostics platform and detects the human neutrophil lipocalin (HNL) biomarker in a single 'finger-prick' drop of blood. In recognition of the test's ability to distinguish between acute bacterial and viral infections, and thereby mitigate the unnecessary use of antibiotics, the two companies were awarded the European Union 'Horizon Prize – Better Use of Antibiotics' during a special award ceremony on the evening of February 6, 2017.

Antimicrobial agents – such as antibiotics – have dramatically reduced the number of deaths from infectious diseases since their introduction 70 years ago. However, through their overuse and misuse, many micro-organisms have become resistant to them. It is estimated that each year this growing antimicrobial resistance (AMR) causes around 25,000 deaths and accounts for over EUR 1.5 billion in healthcare costs and productivity losses in Europe alone, making it one of the greatest challenges facing society today. To boost development and bring new and innovative players to AMR research, the EU issued a prize for the individual or team that most effectively meets the following challenge: "to develop a rapid test that will allow healthcare providers to distinguish at the point of care between patients with upper respiratory tract infections that require antibiotics and those that can be treated safely without antibiotics".

"This prize is a great recognition of how collaboration can lead to innovative diagnostic solutions that improve patient care," said Marcel van Kasteel, CEO of Handheld Diagnostics at Philips. "The HNL program for detection of bacterial infections perfectly fits with our 'open platform' strategy of bringing innovative biomarker content onto the Minicare I-20 platform in order to offer healthcare professionals a panel of relevant tests for acute settings. Activities are ongoing to further develop the HNL test for eventual implementation in routine clinical practice.

"In various studies, HNL has demonstrated superior performance compared to biomarkers currently used to diagnose bacterial infection," said Per Venge, CEO of P&M Venge AB. "I am therefore very excited that we have been able to successfully demonstrate the detection of HNL on the Minicare I-20 using blood samples from patients with upper respiratory tract infections in the Uppsala University hospital, where within a few minutes patients with a bacterial infection could clearly be distinguished from those with viral infections or other conditions."

Based on Philips' proprietary biosensor technology, the Minicare I-20 handheld diagnostics platform is designed to detect multiple target molecules at very low concentrations in a single 'finger-prick' blood sample, and display the results on a handheld analyzer within minutes. Philips already has CE marking for its Minicare I-20 based cardiac troponin I (cTnI) blood test for the rapid point-of-care diagnosis of heart attack, and it is currently developing further tests for acute care settings.

Minicare I-20 is simple and easy to use by non-laboratory staff. The analyzer's built-in connectivity allows direct transfer of the data to laboratory and hospital information systems to update patient files, while integrated calibration and fail-safe functionalities ensure the robustness and accuracy needed for confident on-the-spot decision making.

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Published on : Wed, 8 Feb 2017