Unyvero's sample-to-answer platform provides rapid results for severe infectious diseases in hospitalized patients

Powerful multiplex PCR technology combined with the broadest range of microorganisms and resistance targets sets the Unyvero System apart.

The Unyvero System consists of:
- Lysator to lyse and process a variety of native samples
- Cockpit to manage testing process, display, store, and transmit results
- Analyzer to perform DNA testing with random-access, multiplex PCR

A single test handles one patient sample, analyzes over 100 DNA analytes and delivers reliable results within just 4-5 hours

Unyvero is designed to expand with your growing needs

Applications for severe infections:
- Blood Culture – BCU
- Hospitalized Pneumonia – HPN
- Intra-Abdominal Infection – IAI
- Implant & Tissue Infection – ITI
- Urinary Tract Infection – UTI

Blood Culture

Fast & Simple Syndromic Testing for Severe Infections - Improving Patient Outcomes
Clinical evidence demonstrates the benefits provided by the Unyvero solution

**Study 1**
Multicenter performance evaluation. Clinical laboratories from HDZ Bad Oeynhausen, UKE Hamburg and OWS Vienna.

- Number of samples: 178 positive blood cultures.
- Value of resistance genes detected during study period: 9/19 resistance genes detected.
- Rapid identification is critical for survival. Using Unyvero, the average time to results was:
  - Reduced by 34h compared to AST results.
  - Reduced by 11h compared to full AST results.

- Polymicrobial infections are severe.
  - 6/7 polymicrobial infections, with pathogens included in the panel, correctly identified.
  - 5 samples with an additional micro-organism were detected using Unyvero.

- Study population: 46 patients.
  - Age: 1 month - 45 years.

- **96.8%** Sensitivity
- **99.8%** Specificity

**Study 2**
Comparison with routine microbiology. University Hospital Essen, Germany.

- 7/7 spiked bacteria correctly identified.
- 3/3 resistance markers correctly identified (mecC, vanA and vanB).

- Number of samples: 1294 positive blood cultures.
- 7 spiked blood cultures.
- Study population: 46 patients.
  - Age: 1 month - 45 years.

- **100%** Agreement for resistance markers.
- **95%** Agreement with 10 results.

- **Unyvero turnaround** time 4-6 hours.

**Unyvero Blood Culture (BCU) Cartridge**

- Easy Workflow
- Multiple Sample Types
- 24/7 Results
- **Faster detection enables earlier optimization of therapy**
  - The Unyvero BCU Application simultaneously identifies a large panel of bacteria, fungi and antibiotic resistance genes.
  - Pathogen identification can take days using routine microbiology methods.
  - Every hour effective antibiotic treatment is delayed, sepsis mortality rate increases up to 8%.
  - Early identification can help reduce morbidity and mortality, improve patient care and reduce healthcare costs.

- **Workflow**
  - Results: 3-4 seconds.
- **Multiple Sample Types**
- **24/7 Results**

- **Pathogen identification can take days using routine microbiology methods.**
- **Every hour effective antibiotic treatment is delayed, sepsis mortality rate increases up to 8%**.
- **Early identification can help reduce morbidity and mortality, improve patient care and reduce healthcare costs**.

In industrialized countries, sepsis is responsible for as many deaths as heart attacks.'