Where are the gaps towards a standardized care network?

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The need: speed, focus and coordination

- Access to a well-functioning clinical research network representing top 5 countries in Europe (i.e. not starting from scratch to design and establish a new network)
- Encompassing the full spectrum of healthcare establishments (community clinics, acute care, rehabilitation, home care)
- Sharing common and standardized procedures for:
  - Patient care and management
  - Diagnostic procedures
  - Follow-up and outcome measures of the condition/infection
- Generating all necessary robust evidence through the conduct of relevant clinical trials evaluating the benefits of diagnostic tests to combat Anti-Microbial Resistance (AMR)
Comprehensive access to micro-organisms and clinical samples

- Extensive collection of samples addressing the targeted condition(s) such as Acute Respiratory Tract Infections (ARTI’s)
- Fully characterized and annotated samples with shared and common standardized methods (“standard” diagnostic assays vs. “innovative” diagnostic assays)
  - Host response / immune status
  - In depth characterization of pathogens (ID / AST / WGS / typing)
  - Extensive clinical patient information, including outcomes
- Accessible clinical information database and biobanks interfaced with clinical laboratory / hospital information system (LIS/HIS)
- “Pseudonymized” information accessible to all investigators and EU-compliant with respect to confidentiality
Standardization

- Standardized collection and exchange of information (diagnostics, therapeutics, clinical information, health-care interventions & costs)
- Common language of patient care management / treatments
- Information systems operating with remote access
- Compliance with existing regulatory bodies
- Clinical and lab databases accessible for data mining, meta-analysis, “Big Data” analytics
- Database architecture compatible with interactive user interface to facilitate medical decision-making

Sustainability

- Organizational and network model allowing its extension / duplication to future additional studies related to Infectious Diseases; possibly other diseases