Mini-Lab

Problem
The rising threat of antibiotic resistance due to over/misuse of antibiotics is a major global health threat and jeopardizes the effective treatment of infectious diseases. In addition, the use of conventional bacteriological culture to diagnose infections are not adapted for low-resource settings and deliver results that are not easily interpreted by clinicians.

Proposed Solution
Develop a small-scale, low-cost, transportable clinical bacteriology lab, enabling sepsis diagnosis, antibiotic resistance sensitivity testing and surveillance at the hospital level by trained, non-expert clinicians and lab technicians.

Potential Impact
- Improves quality of diagnosis and clinical care for patients with bacterial blood infections
- Fills a gap in antibiotic resistance, infection prevention and control

Viability
- Extensive stakeholder engagement – medical advisors, technical experts, legal, working groups
- Validation of minimum viable product, project plan

Risk Mitigation
- OCs engaged in site selection for field pilot testing
- Engaging legal advisors for regulations, IP and contracts

Scalability
- Viable solution to extend lab capabilities where a conventional lab is not possible
- External market analysis with Access Campaign and biotech experts to extend beyond MSF (preferential pricing to be negotiated for all NGOs)

Area/Type: Medical Research and Development; Large Scale
Sponsor/Support: OCP/OCG/OCB
Length/Project Status: 2.5 year; ONGOING