Procalcitonin Blood test for sepsis (PCT) Supported by a £10,000 grant from UCLP



Project aim

- To increase recognition and treatment of sepsis using procalcitonin blood test (PCT)
- A more rational and optimal use of antibiotic
- Reduction of mortality and morbidity related to sepsis



Project team

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Timeline for delivery

From: 29th July 2019 To: January 2020

Measures

Outcome measure(s) – Mortality rates

Process Measures – number of procalcitonin tests
performed-indicator whether all appropriate patients
are being tested as per protocol, antibiotic usage/1000
bed days – review if antibiotic consumption is changing
Balancing measures - length of stay, cost of antibiotic
usage and cost of procalcitonin test

Tests for change

- Awareness and education of PCT
- Introduce PCT blood test in ED
- Antibiotic prescribing guided by PCT
- Monitoring compliance
- Process mapping

Learning and next steps

- There is resistance to stopping antibiotics based on PCT result, despite scientific evidence
- We need a new approach to ordering the 2nd PCT sample as sample ordering is too low
- Education of medical staff has been insufficient to change practice



