

**Supplementary Material 2**

Interim survey question top 3 ranking by stakeholder demographics e.g. healthcare professionals and patients/carers

Patients/ carers ranking	Healthcare professionals ranking	Interim survey questions
1	20	How do we optimise care for mental health patients whether presenting with either/both physical and mental health needs; including appropriate space to see patients, staff training, early recognition of symptoms, prioritisation, and patient experience?
2	1	How can we improve work/life balance amongst ED staff to better retain our staff, including rota design and other working conditions and with regard to how ED staff development is managed, what initiatives can improve staff engagement, resilience, retention, satisfaction, individuality and responsibility?
3	>25	Can a blood test (biomarker) help identify those patients who present with sepsis to the ED that require early treatment and improve patient outcomes?
3	17	How can we achieve excellence in delivering end of life care (recognising that a patient is dying, understanding patient and family views, and relieving patient symptoms) in the ED? How can we best support patients, families and staff with handling bereavement issues?
3	15	Do early undifferentiated (broad spectrum) antibiotics in suspected severe sepsis have a greater benefit and cause less harm to patients than delayed focussed antibiotics in the ED?
6	2	In older, frail patients with injury, how do we optimise assessment (including specific trauma assessment/call activation), management, clinical outcomes and patient experience?
>25	3	How do we identify patients who present to the ED with Acute Aortic Syndrome and are there decision tools which can reduce overuse of computer tomography scans to identify these patients?