



Trust Board Capital Business Case Briefing Paper	
Reference Number:	TB147/11/F
Date of Meeting:	24/11/22
Presenting Director:	Dr Dave Watkins
Subject:	Upgrade of Steam Sterilisers and Steam generators in Antrim Hospital Sterilisation and Disinfection Unit
Purpose/Action Required:	To provide a summary of the Capital Business Case for Trust Board Approval.
Background:	Antrim Hospital Sterilisation and Disinfection Unit provides a medical device and surgical instrument decontamination service across the Northern Trust to include Whiteabbey Hospital, Causeway Hospital, Mid-Ulster Hospital and Antrim Hospital. Decontamination must be comprehensive to avoid transmission of infection. Medical Device decontamination process typically uses a combination of manual cleaning, disinfection using an automated process utilising a washer disinfector and sterilisation using a porous load autoclave. The water supplied to the equipment must come from a Reverse Osmosis plant to remove contaminants from the water. Steam sterilisers are used to sterilise all surgical instrumentation and medical devices across the Trust. The steam generators provide readily available steam to the sterilisers. This helps to ensure patient safety and reduces the risk of infection. There are currently four Sterilisers and three steam generators within HSDU in Antrim Hospital, this equipment was installed in May 2011 and are 11 years old. Each steriliser has processed approximately 24,000 cycles each. Chamber warranty ends after 10 years and the sterilisers are now considered “end of life” The aim of this project is to replace all existing steam porous load sterilisers, ensuring compliance with HTM01-01NI
Benefits:	This proposal will ensure the continuity of decontamination services on the Antrim Hospital site by providing clinical



	staff with the appropriate clean equipment for procedures and ultimately ensuring patient safety. Replacement of the decontamination equipment will ensure that the machines are compliant, reliable and with manufacturers support to ensure HSDU can continue at full capacity.
Total Capital Costs:	• Equipment Costs - £234,343 • Installation and Commissioning- £61,975 • Building & MEM Works £105,000 • Preliminaries £5,250 • Contingency £16,538 • Professional & Statutory Fees £17,750 TOTAL COST: £440,856
Affordability:	The total capital costs for Option 3 are £440,856 with the expenditure being incurred over 2 financial years. Funding is available from the 2022/2023 Department of Health Decontamination allocation for the £234,343 equipment costs to be purchased in 2022/23. The funding required in 2023/2024 of £206,513 will be noted as an advance on the 2023/2024 NHSCT CRL.
Risks:	If the sterilisers are not replaced in HSDU increased risk of- • Sterilisers could potentially suffer terminal failure. • Failed cycles. • Longer turnaround for the decontamination of medical devices and surgical instruments, resulting in an adverse effect on surgical/diagnostic waiting lists. • Potential adverse effect on patient safety.
Conclusion:	Investment required into HSDU to ensure the decontamination of medical devices and surgical instruments can continue and patient safety is not compromised. For approval by Trust Board.