

Emergency paediatric bronchoscopy: A freely available, durable, effective training resource.

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March 07, 2024

Abstract

Objectives 1) To assess the theatre team's performance through invited participation in an audit cycle. 2) To develop a resource that would outlast the audit and be applied universally to multiple departments. 3) To evaluate the novel resource and audit cycle. Design A closed audit cycle involving the ENT theatre team at a University teaching hospital were invited to take part in assessment tasks involving the paediatric bronchoscope. A 2 minute instructional video was developed.. Cycle 2 repeated naming, function and assembly tasks and scores were recorded and compared to cycle 1 for improvement. Setting Operating theatre of a combined adult and paediatric ENT service in a University teaching hospital. Participants Medical and nursing staff who formed part of the ENT theatre team in a University teaching hospital. Main Outcome Measures Naming and function scores of the paediatric bronchoscope as well as time to accurate assembly. Participant satisfaction and feedback on the process was used to evaluate the resource. Results There were 15 participants. Average experience was 10.4 years. Average improvements in naming and function scores were 29% and 15% respectively. The average improvement in assembly time was 49 seconds. Participants rated the resource highly, learned new skills and increased confidence. Conclusion This paper presents a novel resource for maintaining theatre team's state of readiness for emergency paediatric bronchoscopy. Through application of techniques from educational psychology the theatre team maintained improvements following the exercise. This resource is freely available and can be used by theatre teams to assess and maintain important skills.

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