

Sepsis QI Project

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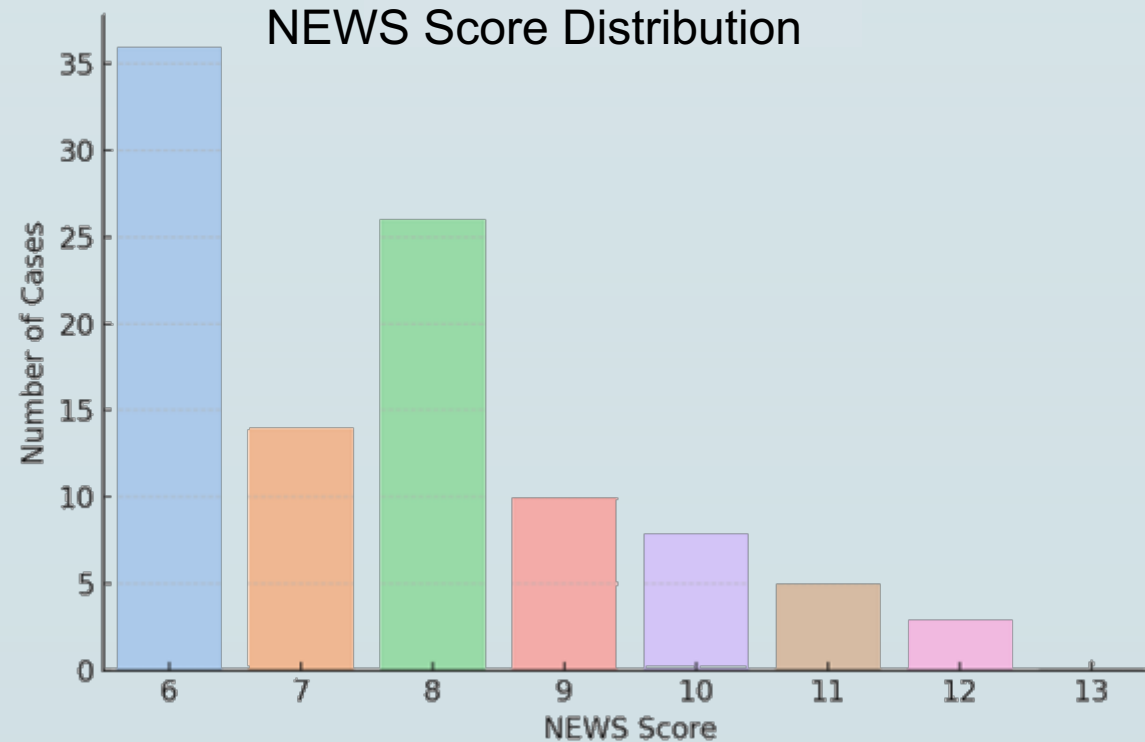
Introduction

- Sepsis is a life-threatening organ dysfunction caused by dysregulated host response to infection and remains a leading cause of death.
- In NHS D&G in 2022, 63 inpatient deaths were directly related to sepsis following a death certificate review
- What happened?** A case of SAB leading to Sepsis & death where family raised concerns regarding communication and management.
- Aim: Improve Sepsis recognition, management and outcomes in NHS D&G

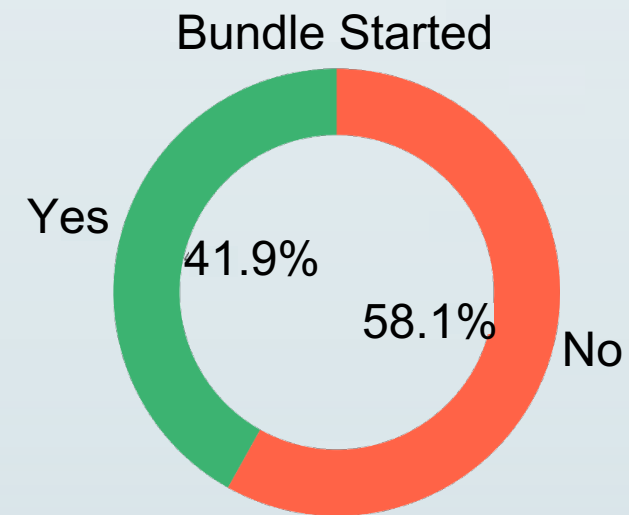
Methodology

- Retrospective cohort study of patients admitted with confirmed or suspected infection and NEWS of 6+
- Total Cases: 105 out of 1000 admissions

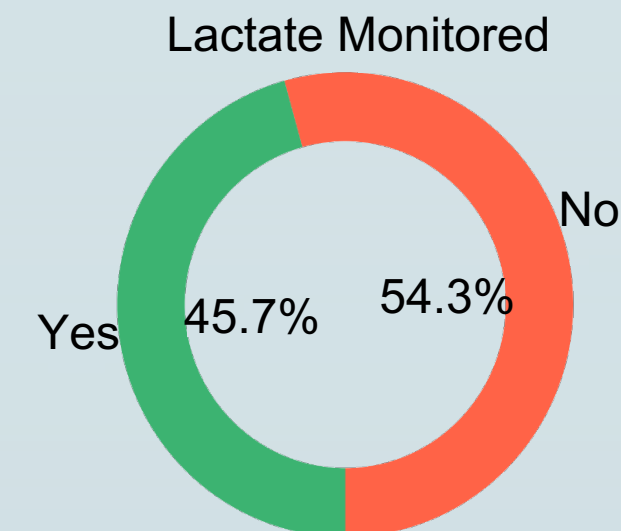
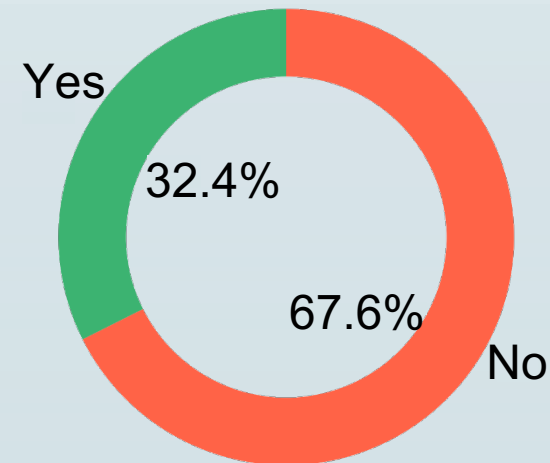
NEWS Score Distribution



Results



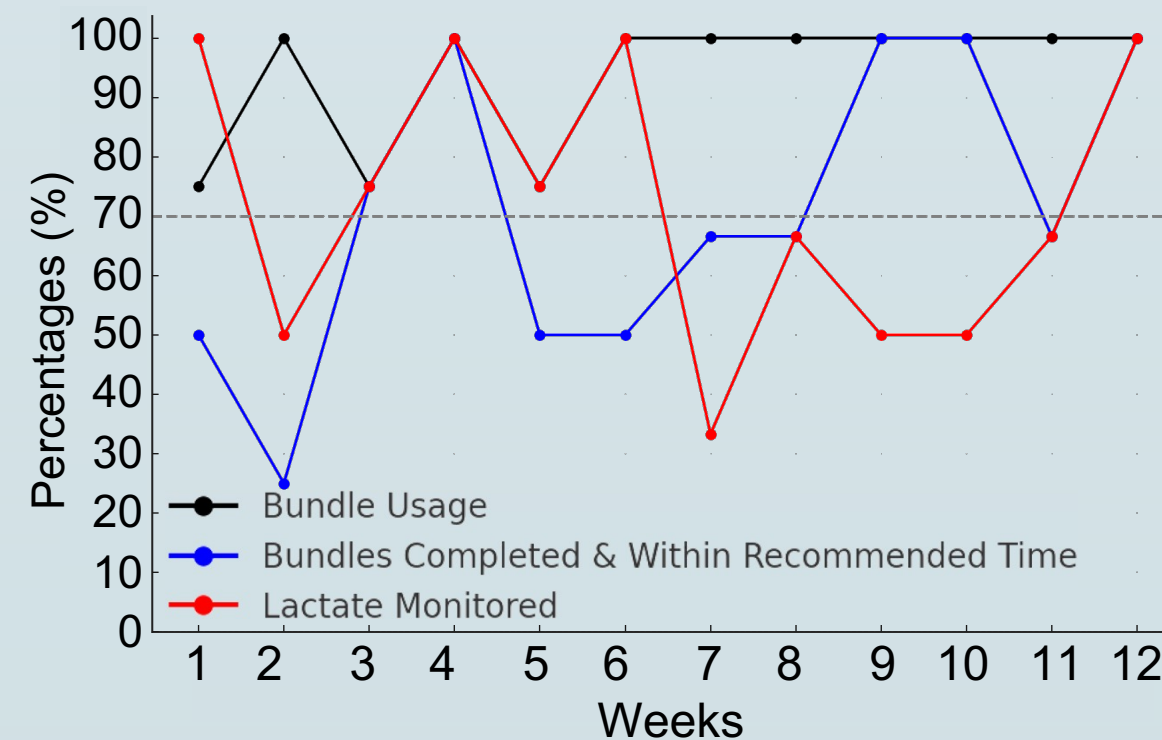
Bundle Completed Within Recommended Time



Improving Sepsis Management

- Multidisciplinary education on recognition of sepsis
- Optimize the use of the Sepsis Bundle and ensure ongoing review and Lactate monitoring
- Use the Sepsis Trust Bundle incorporating the AoMRC Recommendations
- Mandatory Training modules
- Continuous Monitoring and feedback
- Publish board comparison data on sepsis outcomes using the Discovery platform (launched in 2024)

Findings



Interpretation

- Bundle usage stabilized above the 70% target, indicating successful protocol implementation
- Bundles completed within recommended time shows improvement but remains inconsistent, suggesting a need for further education and optimization
- Initial lactate monitoring generally remains close to or above 70% but demonstrates volatility indicating ongoing need of raising awareness

Possible Contributing Factors

- GP Admissions to AMU with lack of triage space
- Increased patient numbers in corridor and temporary spaces

Conclusion

- While we have made some improvements in use of the sepsis bundle, there remain inconsistencies in bundle completion within the recommended time and lactate monitoring
- Use of the new PHS sepsis Discovery platform will allow a board comparison of recognition and management of sepsis

For More Information

<https://www.nhsdghandbook.co.uk/medical-handbook/sepsis-and-septic-shock/>