

INPLASY202670029
doi: 10.37766/inplasy2026.7.0029
Received: 11 July 2026
Published: 11 July 2026

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ADMINISTRATIVE INFORMATION

Support - None.

Review Stage at time of this submission - Preliminary searches.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202670029

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 11 July 2026 and was last updated on 11 July 2026.

INTRODUCTION

Review question / Objective Adult patients requiring ECMO support following major trauma.

Rationale To ascertain the effect and potential benefit of ECMO strategy following major trauma.

Condition being studied Major trauma.

METHODS

Search strategy A web-based literature search on PubMed and EMBASE.

Participant or population Adult patients sustaining major trauma.

Intervention VA or VV or VP ECMO.

Comparator Not applicable.

Study designs to be included Case series, case reports, observational studies and cohort studies were selected and further reviewed to ascertain their suitability. No randomised prospective trials were available.

Eligibility criteria Adult patients (> 18 yrs old) sustaining major trauma.

Information sources A web-based literature search on PubMed and EMBASE.

Main outcome(s) Effect of ECMO strategy on survival and quality of life following major trauma.

Quality assessment / Risk of bias analysis PICOS and PRISMA approach. Oxford grading system.

Strategy of data synthesis As required.

Subgroup analysis Not applicable.

Sensitivity analysis Not applicable.

Language restriction articles in English language.

Country(ies) involved USA, UK.

Keywords ECLS, ECMO, Extracorporeal Membrane Oxygenation, Trauma.

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