

INPLASY

Lemierre syndrome and Epstein-Barr virus: systematic literature review

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ADMINISTRATIVE INFORMATION

Support - The study was partially funded by the Italian Ministry of Health.

Review Stage at time of this submission - Data analysis concluded - manuscript ongoing.

Conflicts of interest - None declared.

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Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 24 January 2024 and was last updated on 24 January 2024.

INTRODUCTION

Review question / Objective Which is the prevalence of Epstein-Barr virus infection in patients affected by Lemierre syndrome? Are clinically different patients affected by Lemierre syndrome with Epstein-Barr virus infection compared to those without Epstein-Barr virus infection?

Condition being studied Lemierre 's syndrome.

METHODS

Participant or population Humans individuals affected by Lemierre syndrome with or without Epstein-Barr virus infection.

Intervention There is not an intervention. The main study group are patients affected by Lemierre syndrome and testing positive for Epstein-Barr virus infection.

Comparator Patients affected by Lemierre syndrome and testing negative for Epstein-Barr virus infection.

Study designs to be included All types of designs of original studies.

Eligibility criteria Studies describing immunocompetent individuals affected by Lemierre syndrome and with results of Epstein-Barr virus tests.

Information sources United States National Library of Medicine, and Excerpta Medica, Google Scholar and articles already familiar to the authors were included.

Main outcome(s) Frequency of Epstein-Barr virus infection in patients with Lemierre syndrome and their clinical characteristics and outcome.

Quality assessment / Risk of bias analysis No formal risk of bias assessment is possible given the study design.

Strategy of data synthesis Both descriptive and inferential statistics. Inferential statistics by Mann-Whitney-Wilcoxon and Fisher exact tests.

Subgroup analysis No subgroup analysis planned excepted for comparison between patients with and without Epstein-Barr virus.

Sensitivity analysis No sensitivity analysis is possible.

Country(ies) involved Italy, UK, Switzerland.

Keywords Lemierre's syndrome; Epstein-Barr virus; EBV; prevalence; clinical presentation; clinical outcome.

Contributions of each author

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