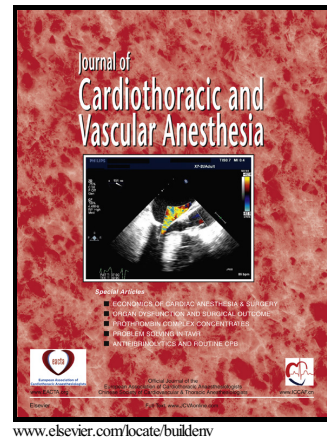


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Hydroxocobalamin as a rescue treatment for refractory vasoplegic syndrome after prolonged cardiopulmonary bypass

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Running Title: Hydroxocobalamin and vasoplegic syndrome

Key Words: Hydroxocobalamin; vitamin B_{12a}; vasoplegic syndrome; vasodilation; cardiopulmonary bypass; vasopressin; norepinephrine; methylene blue

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Introduction

Vasoplegic syndrome is a form of vasodilatory shock that occurs in between 5% to 25% of patients during or after cardiopulmonary bypass (CPB)¹. The incidence of vasoplegic syndrome is directly related to the duration of CPB². Vasoplegic syndrome is typically characterized by moderate to profound hypotension (mean arterial pressure less than 50 mmHg), normal or elevated cardiac index (greater than 2.4 L min⁻¹·m²), reduced systemic vascular

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