

Publications	Grade	Quality	Comments
Mouncey PR, et al. Trial of early, goal-directed resuscitation for septic shock. NEJM 2015; 372:1301-11.	A	Outstanding	<ul style="list-style-type: none"> <li>• Non-blinded intervention</li> <li>• Mortality lower than expected</li> <li>• Patients got lower volumes of IVFs and more vasopressors compared with Rivers et al.</li> </ul>
ARISE Investigators. Goal-directed resuscitation for patients with early septic shock. NEJM 2014; 371:1496-506.	A	Outstanding	<ul style="list-style-type: none"> <li>• Not blinded</li> <li>• Mortality rate lower than original EGDT trial</li> </ul>
ProCESS Investigators. A randomized trial of protocol-based care for early septic shock. NEJM 2014; 370: 1683-93.	A	Outstanding	<ul style="list-style-type: none"> <li>• Baseline mortality differences b/w Rivers et al.</li> <li>• Mean ScvO2 different between Rivers et al.</li> </ul>
Andrews B, Muchemwa L, Kelly P, et al. Simplified severe sepsis protocol: a randomized controlled trial of modified early goal-directed therapy in Zambia. Crit Care Med 2014; 42:2315-24.	A	Adequate	<ul style="list-style-type: none"> <li>• Single center in Zambia</li> <li>• Non-blinded</li> <li>• 81% HIV positive pts; Mean CD4 49</li> <li>• Stopped early due to high mortality among patients with hypoxemic respiratory failure in intervention arm</li> <li>• Protocol consisted of IVFs, dopamine, blood transfusions</li> <li>• Used JVP to assess volume due to limited resource setting</li> <li>• No change in mortality</li> </ul>
Coen D, Cortellano F, Pasini S, et al. Towards a less invasive approach to the early goal-directed treatment of septic shock in the ED. Am J Emerg Med 2014; 32:563-8.	C	Poor	<ul style="list-style-type: none"> <li>• Single-center</li> <li>• 51 patients</li> <li>• No comparison group</li> <li>• More cancer and immunosuppressed patients than Rivers trial</li> </ul>

<p>Cannon CM, Holthaus CV, Zubrow MT, et al. The GENESIS project (GENeralized Early Sepsis Intervention Strategies): a multicenter quality improvement collaborative. J Intensive Care Med 2013; 28:355-68.</p>	<p>C</p>	<p>Good</p>	<ul style="list-style-type: none"> <li>• A CQI initiative</li> <li>• Before-and-after study with historical controls</li> <li>• Community and academic hospitals</li> <li>• Included patients from ED, general ward, and ICU</li> <li>• Absolute and relative mortality decrease between groups</li> <li>• CVP and ScvO2 not significant predictor of mortality</li> </ul>
<p>Jones AE, Troyer JL, Kline JA. Cost-effectiveness of an emergency department-based early sepsis resuscitation protocol. Crit Care Med 2011; 39:1306-12.</p>	<p>C</p>	<p>Adequate</p>	<ul style="list-style-type: none"> <li>• Before-and-after study</li> <li>• Single center</li> <li>• Cost effectiveness of implementing EGDT protocol</li> <li>• EGDT protocol did not include dedicated team</li> <li>• EGDT increased hospital cost by approx.. \$7000;</li> <li>• In-hospital mortality lower</li> <li>• \$5400 QALY gained</li> </ul>
<p>Suarez D, Ferrer R, Artigas A, et al. Cost-effectiveness of the Surviving Sepsis Campaign protocol for severe sepsis: a prospective nation-wide study in Spain. Intensive Care Med 2011; 37:444-52.</p>	<p>C</p>	<p>Adequate</p>	<ul style="list-style-type: none"> <li>• Prospective, before-and-after study</li> <li>• 59 ICUs in Spain</li> <li>• In-hospital mortality lower (44% vs. 39.7%)</li> <li>• SSC protocol had higher costs and longer LOS</li> <li>• Mean life years gained higher in the SSC protocol cohort</li> <li>• Divided into resuscitation bundles and management bundles</li> <li>• Treatment varied within cohorts; management did not always comply with bundles</li> </ul>

<p>Castellanos-Ortega A, Suberviola B, Garcia-Astudillo LA, et al. Impact of the Surviving Sepsis Campaign protocols on hospital length of stay and mortality in septic shock patients: results of a three-year follow-up quasi-experimental study. Crit Care Med 2010; 38:1036-43.</p>	<p>C</p>	<p>Adequate</p>	<ul style="list-style-type: none"> <li>• Prospective, before-and-after study</li> <li>• Single-center med-surg ICU in Spain</li> <li>• 6-hr resuscitation bundle delivered in ICU, not ED</li> <li>• 384 in intervention group; 43 completed all 7 tasks in resuscitation bundle</li> <li>• ScvO2 of &gt; 70% was only intervention of statistical significance</li> <li>• Mortality lower 57.3% vs. 37.5% in intervention group</li> </ul>
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