

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"> • Non-blinded intervention • Mortality lower than expected • Patients got lower volumes of IVFs and more vasopressors compared with Rivers et al.
ARISE Investigators. Goal-directed resuscitation for patients with early septic shock. NEJM 2014; 371:1496-506.	A	Outstanding	<ul style="list-style-type: none"> • Not blinded • Mortality rate lower than original EGDT trial
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"> • Baseline mortality differences b/w Rivers et al. • Mean ScvO2 different between Rivers et al.
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"> • Single center in Zambia • Non-blinded • 81% HIV positive pts; Mean CD4 49 • Stopped early due to high mortality among patients with hypoxemic respiratory failure in intervention arm • Protocol consisted of IVFs, dopamine, blood transfusions • Used JVP to assess volume due to limited resource setting • No change in mortality
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"> • Single-center • 51 patients • No comparison group • More cancer and immunosuppressed patients than Rivers trial

<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"> • A CQI initiative • Before-and-after study with historical controls • Community and academic hospitals • Included patients from ED, general ward, and ICU • Absolute and relative mortality decrease between groups • CVP and ScvO2 not significant predictor of mortality
<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"> • Before-and-after study • Single center • Cost effectiveness of implementing EGDT protocol • EGDT protocol did not include dedicated team • EGDT increased hospital cost by approx.. \$7000; • In-hospital mortality lower • \$5400 QALY gained
<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"> • Prospective, before-and-after study • 59 ICUs in Spain • In-hospital mortality lower (44% vs. 39.7%) • SSC protocol had higher costs and longer LOS • Mean life years gained higher in the SSC protocol cohort • Divided into resuscitation bundles and management bundles • Treatment varied within cohorts; management did not always comply with bundles

<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"> • Prospective, before-and-after study • Single-center med-surg ICU in Spain • 6-hr resuscitation bundle delivered in ICU, not ED • 384 in intervention group; 43 completed all 7 tasks in resuscitation bundle • ScvO2 of > 70% was only intervention of statistical significance • Mortality lower 57.3% vs. 37.5% in intervention group
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