

Hemodynamic management in COVID-19 using LiDCO

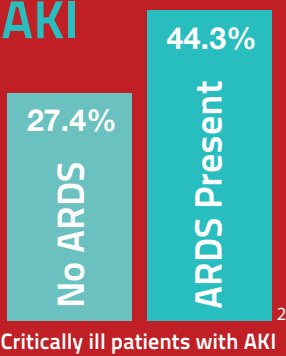
COVID-19 patients with AKI suffer worse outcomes⁴

COVID-19 patients

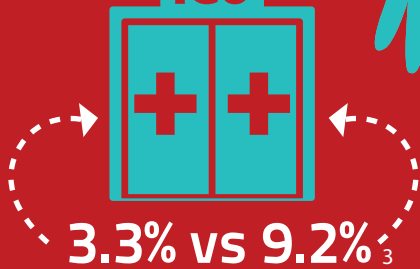
65.5% vs 6.7%

develop AKI when on ventilation vs develop AKI in non-ventilation¹

ARDS in critical patients linked to higher incidence of AKI



LiDCO reduces re-admissions to the ICU



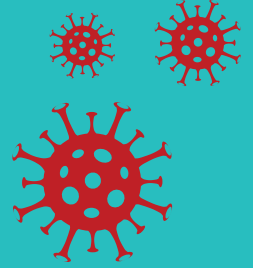
LiDCO assists with balance in



19.9%
X
AKI without LiDCO GDT

6.5%
✓
AKI with LiDCO GDT³

FLUIDS?



LiDCO ventilator tests can assess patient's fluid responsiveness without giving fluids or having to touch them

CNAP

Non-Invasive

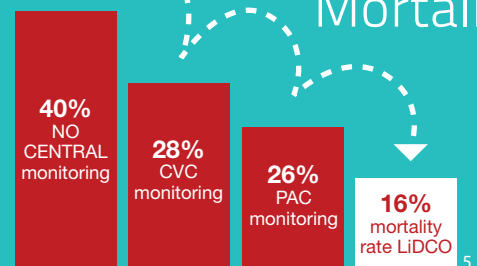


Calibrate

Minimally Invasive



LiDCO Reduces Mortality



Clinical Papers in Sepsis and AKI

Sepsis | Reduced mortality with non-invasive hemodynamic monitoring of shock

Patient Population

ICU shock patients

LiDCO Monitor

LiDCOplus

Trial Design

Observational study comparing no hemodynamic monitoring vs pulmonary artery vs LiDCOplus managed shock patients

Outcome Impact

Treatment of patients using the LiDCOplus monitor significantly reduced the observed mortality rate to 13% against 32% and 20% in the invasively monitored and 37% in the unmonitored patient groups

⁵ Hata J, Stotts C, Shelsky C, Bayman E, Frazier A, Wang J, Nickel E. Reduced mortality with noninvasive hemodynamic monitoring of shock. *J Crit Care.* 2011;26(2):224.E1-8.



AKI | Goal-directed therapy after cardiac surgery and the incidence of acute kidney injury

Patient Population

Cardiac surgery patients following coronary artery bypass grafting and/or aortic valve surgery

LiDCO Monitor

LiDCOplus

Trial Design

Prospective observational study in cardiothoracic ICU

Outcome Impact

A nurse-led GDT protocol targeting maximum SV for 8hrs post surgery showed a reduction in the incidence of AKI and reduction in the number of patients requiring RRT

³ Thomson R., Meeran H., Valencia O. and Al-Subaie N. (2014). 'Goal-directed therapy after cardiac surgery and the incidence of acute kidney injury'. *Journal of Critical Care* 29 (6).

¹ Hirsch J S., Jia H., Ross D., Sharma P., Shah H., Barnett R., Hazzan A., Fishbane S. and Jhaveri K. (2020) 'Acute kidney injury in patients hospitalized with COVID-19'. *Kidney Journal.* 98 (1).

² Darmon M., Clec'h C., Adrie C., Argaud L., Allaouchiche B., Azoulay E., Bouadma L., Garrouste-Orgeas M., Haouache H., Schwebel C., Goldgran-Toledano D., Khallel H., Dumenil A-S., Jamali S., Souweine B., Zeni F., Cohen Y. and Timsit J-F. (2014) 'Acute Respiratory Distress Syndrome and Risk of AKI among Critically Ill Patients'. *Clinical Journal of the American Society of Nephrology.* 9 (8)

⁴ Chen Y-T., Shao S-C., Hsu C-K., Wu I-W., Hung M-J. and Chen Y-C. (2020) Incidence of acute kidney injury in COVID-19 infection: a systematic review and meta-analysis. *Critical Care.* 24 (1).



Contact us
on how LiDCO
fits into your
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