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Organ support therapy in the intensive care unit and return to work: a	Among 5762 ICU survivors, 68% returned to work within 2 year after hospital discharge. Disability and sickness benefits
	constituted 89% of social benefits among patients not returning
nationwide, register-based cohort study	to work and 59% among patients withdrawing from work
Riddersholm, S., Christensen, S., Kragholm, K. et al. Intensive Care Med (2018) 44: 418. https://doi.org/10.1007/s00134-018-5157-1	following an initial return to work.
	The majority of a nationwide cohort of ICU survivors returned work. Sick leave and receipt of disability pension were commo
	following ICU admission. Mechanical ventilation and longer IC
	LOS were associated with reduced chances of return to work.
Oxygen management in mechanically	This is multicentre prospective study to observe the oxygen
	management in ventilated patients.
ventilated patients: A multicentre	Hyperoxemia was common as PaO2 was ≥100 mmHg during
prospective observational study	47.2% of the study period.
Egi, Moritoki et al. Journal of Critical Care , Volume 46 , 1 - 5	Hyperoxemia was not corrected as FIO2 was less likely decrea
	when FIO2 was <0.5
Why all randomised controlled trials	This study shows that these world-leading RCTs that have
produce biased results.	influenced policy produce biased results by illustrating that participants' background traits that affect outcomes are often
Krauss A. <u>Ann Med.</u> 2018 Jun;50(4):312-322. doi:	poorly distributed between trial groups, that the trials often
10.1080/07853890.2018.1453233. Epub 2018 Apr 4.	neglect alternative factors contributing to their main reported
	outcome and, among many other issues, that the trials are of
	only partially blinded or unblinded. The study here also identi
	a number of novel and important assumptions, biases and
	limitations not yet thoroughly discussed in existing studies the
	arise when designing, implementing and analysing trials.
Corticosteroids for septic shock: what to	Although hydrocortisone positively impacts the course of sep
do now?	shock this drug appears to reduce mortality only in the sickes
Marik. JECCM, 10.21037/jeccm.2018.03.08	sub-group of patients. However, we propose that when combined with intravenous vitamin C and thiamine,
	hydrocortisone improves outcome in all septic patients. We
	therefore believe that the era of corticosteroid monotherapy
	treat sepsis has ended. Furthermore, we suggest that
	hydrocortisone be administered by bolus dosing rather than
	a continuous infusion.
Promising novel therapy with hydrogen	Antioxidant and anti-inflammatory properties of hydrogen ga
gas for emergency and critical care	have been proposed, but the molecular target of hydrogen ga
	has not been identified. We established the Center for Molec
medicine Sano et al. https://doi.org/10.1002/ams2.320	Hydrogen Medicine to promote non-clinical and clinical resea on the medical use of hydrogen gas through industry—univers
Salo et al. https://doi.org/10.2002/amsz.520	collaboration and to obtain regulatory approval of hydrogen s
It has been reported that hydrogen gas exerts a	and hydrogen medical devices
therapeutic effect in a wide range of disease conditions,	(http://www.karc.keio.ac.jp/center/center-55.html). Studies
from acute illness such as ischemia—reperfusion injury,	undertaken by the Center have suggested possible therapeut
shock, and damage healing to chronic illness such as	effects of hydrogen gas in relation to various aspects of
metabolic syndrome, rheumatoid arthritis, and	emergency and critical care medicine, including acute myocar
neurodegenerative diseases.	infarction, cardiopulmonary arrest syndrome, contrast-induce
	acute kidney injury, and haemorrhagic shock.
Efficacy of early passive tilting in	Tilting intensive care unit patients has been advocated to minimize acute weakness
minimizing ICU-acquired weakness: A	Passive tilting plus early physiotherapy was compared to
randomized controlled trial	physiotherapy alone
Sarfati et al. https://doi.org/10.1016/j.jcrc.2018.03.031	Tilting added to early physiotherapy affords a faster recovery
	muscle weakness

	DI. Batta
Incidence and Outcomes for Patients With Cirrhosis Admitted to the United Kingdom Critical Care Units McPhail et al. Critical Care Medicine. 46(5):705–712, MAY 2018 Efficacy and Safety of Procalcitonin	More patients with cirrhosis are being admitted to critical caunits but with increasing survival rates. Patients with alcohorelated liver disease have reduced survival rates partly explainly higher levels of organ failure at admission. Patients with cirrhosis and organ failure warrant a trial of organ support a universal prognostic pessimism is not justified. In adult patients with suspected or confirmed sepsis,
Guidance in Patients With Suspected or Confirmed Sepsis: A Systematic Review and Meta-Analysis lankova et al. Critical Care Medicine. 46(5):691–698, MAY 2018	procalcitonin guidance reduces antibiotics duration with no observed adverse effects on patient outcomes.
Association between intra- and post- arrest hyperoxia on mortality in adults with cardiac arrest: A systematic review and meta-analysis Patel et al. https://doi.org/10.1016/j.resuscitation.2018.04.008	We included 16 observational studies with a total of 40,573 patients. Six studies included patients only with out-of-hospi CA (OHCA), 2 studies included patients only with in-hospital (IHCA), and 8 studies included patients with both OHCA and IHCA. Two studies assessed intra-arrest hyperoxia while 14 studies examined post-arrest hyperoxia. Of the 10 studies included for quantitative analysis, intra-arrest hyperoxia was associated with a significantly lower mortality rate [odds rat (OR) 0.25, 95% confidence interval (CI) 0.12–0.53, p < 0.001] while post-arrest hyperoxia was associated with higher mort (OR 1.34, 95%CI 1.08–1.67, p = 0.008). In adults with CA, intra-arrest hyperoxia is associated with lower mortality while post-arrest hyperoxia is associated whigher mortality.
Early Goal-Directed Therapy in Severe Sepsis and Septic Shock: A Meta-Analysis and Trial Sequential Analysis of Randomized Controlled Trials	Adults with severe sepsis and septic shock who received EGI had a lower mortality than those given usual care, the benefinary mainly be attributed to treatments administered within first 6 hours. However, the underlying mechanisms by which lactate clearance—guided therapy benefits these patients are to be investigated.
Mortality and morbidity in acutely ill adults treated with liberal versus conservative oxygen therapy (IOTA): a systematic review and meta-analysis	In acutely ill adults, high-quality evidence shows that liberal oxygen therapy increases mortality without improving other patient-important outcomes. Supplemental oxygen might become unfavourable above an SpO2 range of 94–96%. The results support the conservative administration of oxygen therapy.