SBU

Appendix 2

Clinical Frailty Scale in prediction of mortality, disability and quality of life for patients in need of intensive care (2020)

Appendix 2 Excluded studies

Reference	Reason for Exclusion
Agrawal N, Hope A, Gong M. Frailty and post-intensive care syndrome in older	Conference
adult survivors of critical illness. J Am Geriatr Soc 2019;67:S327.	abstract
Amado-Rodríguez L, López-Alonso I, Huidobro C, Blázquez-Prieto J, Del Busto C,	Conference
Iglesias L, et al. Impact of frailty and duration of mechanical ventilation on post-	abstract
intensive care unit functional status of cardiac critically ill patients. Am J Respir	
Crit Care Med 2018;197.	
Andrew MK, Lees C, Godin J, Black K, McElhaney J, Ambrose A, et al. Frailty	Conference
hinders recovery from acute respiratory illness in older adults. Open Forum	abstract
Infect Dis 2017;4:S573-S574.	
Arriero Fernández N, Silva Obregón JA, Estrella Alonso A, Eguileor Marin Z,	Conference
Tirado Fernández MA, Viejo Moreno R, et al. Frailty assesment in	abstract
cardiopulmonary arrest, is it necessary? Crit Care 2019;23.	
Arroyo Espliguero R, Silva-Obregon A, Viana-Llamas MC, Estrella-Alonso A,	Conference
Saboya-Sanchez S, Uribe-Heredia G, et al. Frailty is an independent predictor of	abstract
one-year mortality in patients with ST-segment elevation myocardial infarction,	
regardless of age, clinical severity and left ventricular function. Eur Heart J	
2019;40:862.	
Baldwin MR, Gonzalez WC, Pollack LR, Javaid A, Maurer MS, Lederer DJ. Frailty	Conference
subphenotypes and functional recovery in older survivors of acute respiratory	abstract
failure. Am J Respir Crit Care Med 2018;197.	
Bech LK, Lindhardt A, Meyhoff CS. Clinical impact of frailty among patients with	Duplication
severe vital sign derangement: An observational study. Acta Anaesthesiol Scand	
2020.	
Bech LK, Lindhardt A, Meyhoff CS. Clinical impact of frailty among patients with	Not relevant
severe vital sign derangement: An observational study. Acta Anaesthesiol Scand	population
2020.	
Brummel NE, Girard TD, Hughes CG, Thompson JL, Chandrasekhar R, Ware LB,	Conference
et al. Associations between markers of inflammation and frailty in survivors of	abstract
hospitalization for critical illness. Am J Respir Crit Care Med 2019;199.	
Brummel NE, Girard TD, Thompson JL, Chandrasekhar R, Pandharipande P, Ely	Conference
E. Prevalence of and risk factors for frailty after hospitalization for critical	abstract
illness. Am J Respir Crit Care Med 2018;197.	
Buitrago DH, Gangadharan SP, Majid A, Kent MS, Alape D, Wilson JL, et al.	Not relevant
Frailty Characteristics Predict Respiratory Failure in Patients Undergoing	population
Tracheobronchoplasty. Ann Thorac Surg 2018;106:836-41.	
Carpenter E, Mahmooth Z, Elwood D, Lin E, Foster M, Haack C, et al. Frailty and	Not relevant
predictors of discharge disposition in the acute and critical care surgery patient:	population
A comparison of three frailty scoring instruments. Am Surg 2019;85:E504-E507.	

Cheung A, Haas B, Ringer TJ, McFarlan A, Wong CL. Canadian Study of Health and Aging Clinical Frailty Scale: Does It Predict Adverse Outcomes among	Not relevant population
Geriatric Trauma Patients? J Am Coll Surg 2017;225:658-665.e3.	population
Curtis B, Carson SS, Douglas IS, Hough CTL, Kahn JM, White DB, et al. Long-term	Conference
cognitive, psychological, and disability outcomes of survivors of chronic critical	abstract
illness. Am J Respir Crit Care Med 2019;199.	
Dang M, Selvachandran A, Wiggan G, Mills M, Bartels M, Verghese J, et al. Pre-	Conference
hospital frailty and cognitive motor interference(CMI) in adults with acute	abstract
respiratory failure. J Am Geriatr Soc 2019;67:S241.	
Darvall JN, Boonstra T, Norman J, Murphy D, Bailey M, Iwashyna TJ, et al.	Not relevant
Retrospective frailty determination in critical illness from a review of the	outcome
intensive care unit clinical record. Anaesth Intensive Care 2019;47:343-8.	5
Darvall JN, Braat S, Story DA, Greentree K, Bose T, Loth J, et al. Protocol for a	Protocol
prospective observational study to develop a frailty index for use in	
perioperative and critical care. BMJ Open 2019;9. Darvall JN, Gregorevic KJ, Story DA, Hubbard RE, Lim WK. Frailty indexes in	Not relevant
perioperative and critical care: A systematic review. Arch Gerontol Geriatr	Instrument
2018;79:88-96.	ilistrament
De Las Casas R, Bell D, Bounds C, Trimmings A. Association between the	Conference
Canadian Study of Health and Ageing (CSHA) Clinical Frailty Score and	abstract
Outcomes from Critical Care. J Intensive Care Soc 2018;19:104-5.	
Di Monte A, D'Amore P, Sabbatini F, Minardi M, Franco A. Non invasive	Conference
ventilation in frailty elderly inpatient with acute respiratory failure. Italian	abstract
Journal of Medicine 2019;13:27.	
Dong J, Sun J, Zeng A, Guo Z. Research progress of frailty syndrome in critically	Not relevant
ill elderly patients. Zhonghua Wei Zhong Bing Ji Jiu Yi Xue 2017;29:958-60.	study design
Enilari O, Nair R, Chuang E, Gong MN, Hope AA. Exploring the provision of	Conference
primary and specialty palliative care services in critically ill older adults by pre-	abstract
hospitality frailty. Am J Respir Crit Care Med 2018;197.	Not relevant
Falvey JR, Ferrante LE. Frailty assessment in the ICU: translation to 'real-world' clinical practice. Anaesthesia 2019;74:700-3.	Not relevant
Fernando S, McIsaac D, Rochwerg B, Bagshaw S, Seely A, Perry J, et al. Frailty	study design Conference
and associated outcomes among emergency department patients requiring	abstract
endotracheal intubation. CJEM 2019;21:S31.	abstract
Fernando SM, McIsaac DI, Rochwerg B, Cook DJ, Bagshaw SM, Muscedere J, et	Not relevant
al. Frailty and associated outcomes and resource utilization following in-	population
hospital cardiac arrest. Resuscitation 2020;146:138-44.	, -, -,
Finkel D, Sternäng O, Jylhävä J, Bai G, Pedersen NL. Functional Aging Index	Not relevant
Complements Frailty in Prediction of Entry Into Care and Mortality. J Gerontol A	Instrument
Biol Sci Med Sci 2019;74:1980-6.	
Flaatten H, Clegg A. Frailty: we need valid and reliable tools in critical care.	Not relevant
Intensive Care Med 2018;44:1973-5.	study design
Flaatten H, Jung C, Vallet H, Guidet B. How Does Frailty Affect ICU Outcome?	Not relevant
Curr Anesthesiol Rep 2019;9:144-50.	study design
Fronczek J, Polok K, Nowak-Kózka I, Włudarczyk A, Górka J, Czuczwar M, et al.	Duplication
Frailty increases mortality among patients ≥ 80 years old treated in Polish ICUs.	
Anaesthesiol Intensive Ther 2018;50:245-51.	
Geense W, Zegers M, Dieperink P, Vermeulen H, van der Hoeven J, van den	Duplication
Boogaard M. Changes in frailty among ICU survivors and associated factors:	

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Results of a one-year prospective cohort study using the Dutch Clinical Frailty Scale. J Crit Care 2020;55:184-93.	
Geense W, Zegers M, Peters M, Janssen I, Ramakers B, Van Der Hoeven J, et al.	Conference
What is the patients' physical, cognitive and mental status before ICU	abstract
admission? Intensive Care Med Exp 2018;6.	abstract
Guidet B, Flaatten H, Boumendil A, Morandi A, Andersen FH, Artigas A, et al.	Not relevant
Withholding or withdrawing of life-sustaining therapy in older adults	outcome
(≥ 80 years) admitted to the intensive care unit. Intensive Care Med	
2018;44:1027-38.	Conference
Hamidi M, Haddadin Z, Zeeshan M, Saljuqi AT, Hanna K, Tang A, et al.	
Prospective evaluation and comparison of the predictive ability of different	abstract
frailty scores to predict outcomes in geriatric trauma patients. J Trauma Acute	
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Hamidi M, Zeeshan M, Leon-Risemberg V, Nikolich-Zugich J, Hanna K,	Not relevant
Kulvatunyou N, et al. Frailty as a prognostic factor for the critically ill older adult	Instrument
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Hamidi M, Zeeshan M, Tang A, Nikolich-Zugich J, Kulvatunyou N, O'Keeffe T, et	Conference
al. Frailty as a prognostic factor for the critically ill: A propensity matched	abstract
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Hart R, Ruddy JP. Frailty in ICU: An unmeasured burden. Intensive Care Med Exp	Conference
2018;6.	abstract
Hewitt D, Booth M. Does frailty score at intensive care unit admission affect	Conference
mortality at one year? A retrospective observational cohort study. Crit Care 2019;23.	abstract
Hickman RL. Evidence-Based Review and Discussion Points. Am J Crit Care	Not relevant
2019;28:124-5.	study design
	Study design
Hodgson L, Warren J, Hunt D, Allen A, Venn R. Prevalence and impact of frailty	Conference
Hodgson L, Warren J, Hunt D, Allen A, Venn R. Prevalence and impact of frailty on intensive care unit outcomes. Intensive Care Med Exp 2018;6.	
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on intensive care unit outcomes. Intensive Care Med Exp 2018;6. Hope AA, Verghese J, Gong MN. Pre-hospital frailty and cognitive impairment in older adult survivors of intensive care: An observational cohort study. Am J Respir Crit Care Med 2019;199. Kizilarslanoglu MC, Civelek R, Kilic MK, Sumer F, Varan HD, Kara O, et al. Is frailty a prognostic factor for critically ill elderly patients? Aging Clin Exp Res 2017;29:247-55. Launey Y, Jacquet H, Arnouat M, Rousseau C, Nesseler N, Seguin P. Risk factors of frailty and death or only frailty after intensive care in non-frail elderly patients: a prospective non-interventional study. J Intensive Care 2019;7:48. Launey Y, Jacquet H, Arnouat M, Rousseau C, Nesseler N, Seguin P. Risk factors of frailty and death or only frailty after intensive care in non-frail elderly patients: A prospective non-interventional study. J Intensive Care 2019;7:48. Law J, Ng Gong M, Nair R, Hope AA. Predictors of increased post-hospital disability in critically ill older adults. J Am Geriatr Soc 2018;66:S319-S320. MacNally L, Soe N, Manohar RA. The impact of frailty on critical care unit outcome and treatment intensity in a district general hospital. J Intensive Care Soc 2018;19:50-1.	Conference abstract Conference abstract Not relevant instrument Not relevant instrument Conference abstract Conference abstract Conference abstract

McMahon DP, Donnelly B, Chamberlin N. The significance of clinical frailty scoring in the outcomes of patients receiving non-invasive ventilation. Thorax	Conference abstract
2019;74:A192-A193.	abstract
Montgomery CL, Zuege DJ, Rolfson DB, Opgenorth D, Hudson D, Stelfox HT, et	Duplication
al. Mise en œuvre d'un outil de dépistage de la fragilité à l'échelle de la	
population parmi les patients admis aux soins intensifs pour adultes en Alberta,	
Canada. Can J Anaesth 2019;66:1310-9.	
Mudge AM. Outcomes for frail very old patients in the ICU are remarkably	Not relevant
good. Med J Aust 2019;211:314-5.	study design
Muscedere J, Boyd J, Maslove D, Sibley S, Hunt M, Norman P, et al. Frailty,	Conference
outcomes, recovery and care steps of critically ill patients (FORECAST) pilot	abstract
study. Crit Care 2019;23.	Not valarion
Nakajima H, Nishikimi M, Shimizu M, Hayashi K, Inoue T, Nishida K, et al. Clinical	Not relevant
Frailty Scale Score Before ICU Admission Is Associated With Mobility Disability	outcome
in Septic Patients Receiving Early Rehabilitation. Crit Care Explor 2019;1:e0066.	Netvolovent
O'Caoimh R, Cooney MT, Cooke J, O'Shea D. The challenges of using the	Not relevant
Hospital Frailty Risk Score. The Lancet 2018;392:2693.	study design
Papageorgiou D, Gika E, Kosenai K, Tsironas K, Avramopoulou L, Sela E, et al.	Not relevant
Frailty in elderly ICU patients in Greece: A prospective, observational study.	outcome
Ann Transl Med 2018;6:111.	Conforme
Pedder A, Harrold R, Cruikshanks A, Tridente A, Raithatha A. Impact of frailty on	Conference
critical care and hospital mortality in criticallyill patients with decompensated	abstract
alcoholic liver disease. Crit Care 2019;23.	Netvolovent
Petrie JG, Martin ET, Zhu Y, Wyatt DG, Kaniclides A, Ferdinands JM, et al.	Not relevant
Comparison of a frailty short interview to a validated frailty index in adults	outcome
hospitalized for acute respiratory illness. Vaccine 2019;37:3849-55. Porteous C, Langton L, Little J, Old A. Does clinical fraility scale aid	Conference
•	abstract
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and Clinical Frailty in Hospitalized Adults With Community-Acquired	Duplication
Pneumonia. Respir Care2020;65:455-63.	
Rice H, Hill K, Fowler R, Watson C, Waterer G, Harrold M. Reduced Step Count	Not relevant
and Clinical Frailty in Hospitalized Adults With Community-Acquired	population
Pneumonia. Respir Care 2020;65:455-63.	population
Rosman J, Cordonnier A, Forceville X, Besch G, Mentec H, Michel P, et al. Impact	Conference
of frailty on elderly patients (≥ 80 years) admitted in French intensive care	abstract
units: A post hoc analysis from the international VIP study. Ann Intensive Care	abstract
2019;9.	
So RKL, Bannard-Smith J, Subbe CP, Jones DA, Van Rosmalen J, Lighthall GK. The	Not relevant
association of clinical frailty with outcomes of patients reviewed by rapid	population
response teams: an international prospective observational cohort study.	
Critical Care 2018;22:227.	
Souza IAO, Vieira TS, Ribeiro PC, Taniguchi LU. Frailty syndrome among critically	Conference
ill patients undergoing nutrition support therapy in a Brazilian tertiary hospital.	abstract
Intensive Care Med Exp 2017;5.	
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evaluation and resource use of frail critically ill patients undergoing nutrition	abstract
support therapy in a Brazilian tertiary hospitalIntensive Care Med Exp 2018;6.	
Va P, Rali P, Kota H, Keenan V, Mujtaba S, Naing W, et al. Home return following	Not relevant
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