

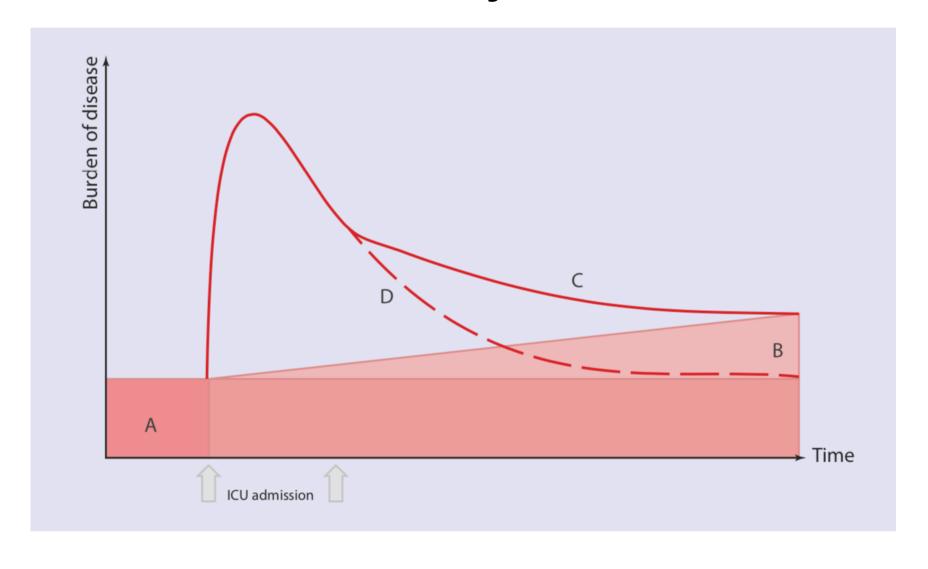
Follow up of patients after intensive care

Patient reported outcomes

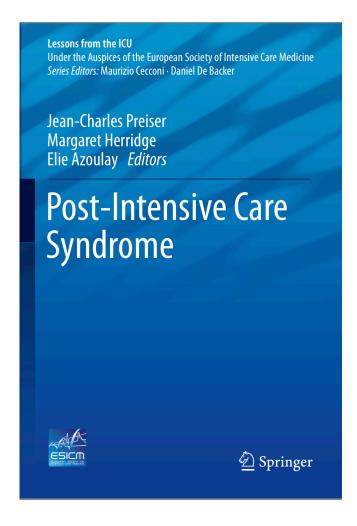
Hans Flaatten, Haukeland University Hospital
University of Bergen
Norway



Post critical illness trajectories

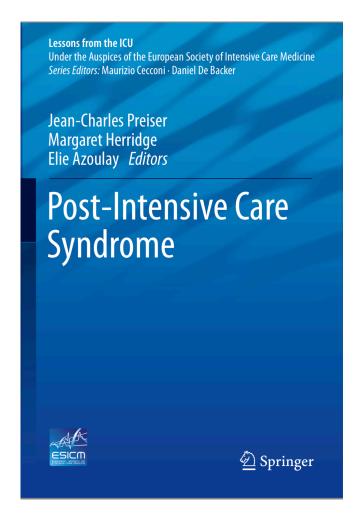






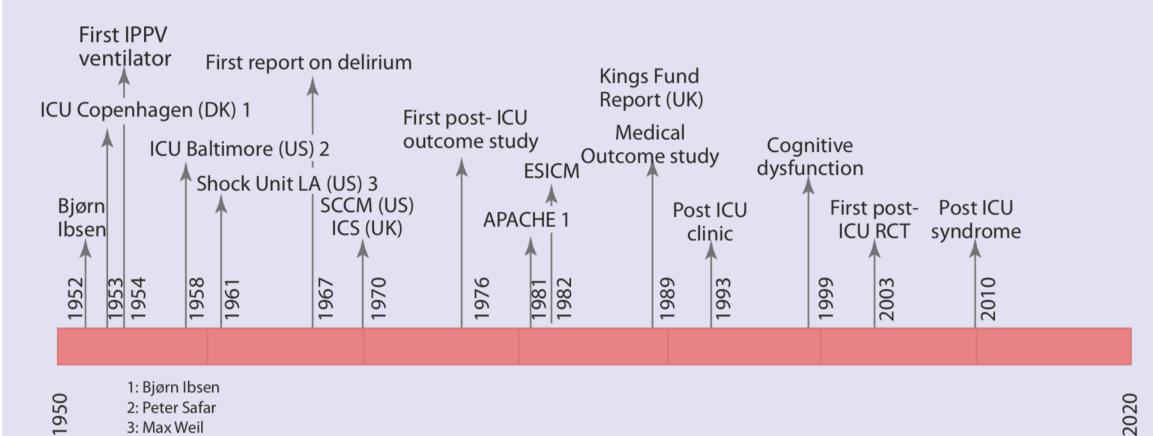
The name for all chronic disabilities that may appear because of critical illness is usually today called the post-ICU syndrome (PICS)



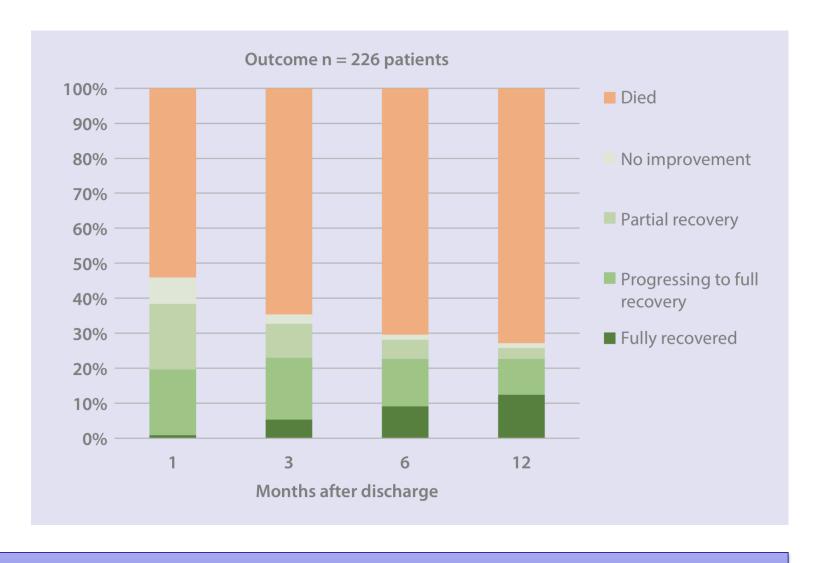


PICS patients
PICS-F family/care-givers

2: Peter Safar 3: Max Weil



Important events in the history of the post-ICU syndrome



1976!

Cullen DJ, Ferrara L, Briggs B, et al. Survival, hospitalization charges and follow-up results in critically ill patients. NEJM. 1976;294:982–7.



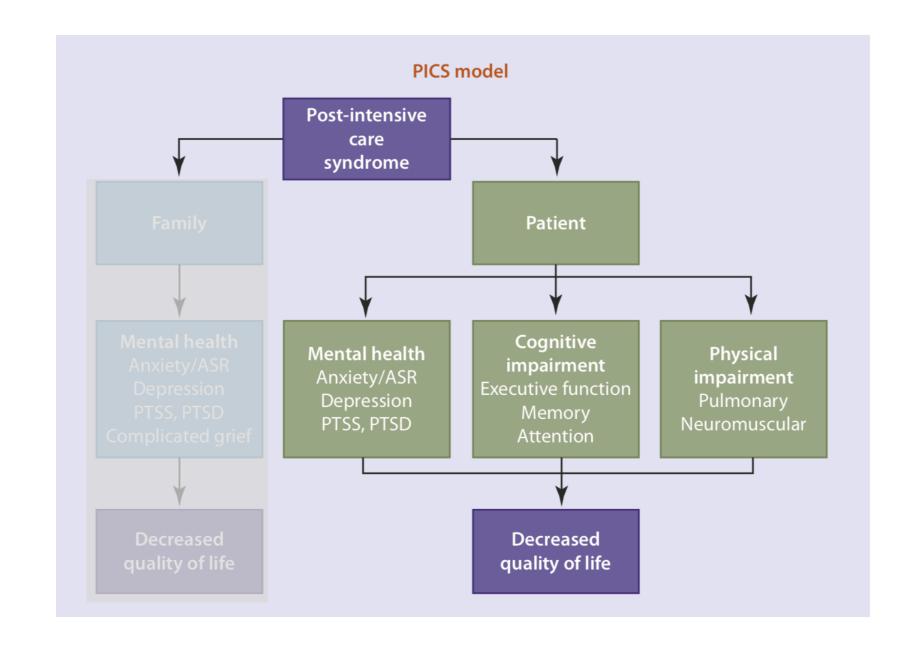
Function

Mental

Productivity

AGE <41	AGE 41-65	AGE >65
Yr (46)*	YR (72)	YR (108)
40.4 ± 1.8	43.4±1.4	45±1.1
43 ± 6.5	39.5 ± 4.5	28 ± 2.4
22 (48%)	19 (26%)	21 (19%)
	, ,	
9 (41%)	7 (37%)	11 (52%)
8 (36%)	9 (47%)	7 (33%)
, ,	` '	, ,
3 (14%)	2(11%)	3 (14%)
(, , , ,	_ (()
1 (5%)	0	0
11 (50%)	10 (53%)	13 (62%)
	• ,	8 (38%)
, , ,	0	0
	1 (5%)	0
17 (77%)	17 (89%)	21 (100%)
3 (14%)	1 (5%)	0 `
` ,	` '	
0	1 (5%)	0
	` ,	
1 (5%)	0	0
` ,		
9 (41%)	8 (42%)	9 (43%)
` '	` '	` ,
4 (18%)	1 (5%)	6 (29%)
4 (18%)	5 (26%)	3 (14%)
0	0	1 (5%)
0	1 (5%)	0 `
4 (18%)	4 (21%)	2 (10%)
` '	. ,	. ,
	YR (46)* 40.4±1.8 43±6.5 22 (48%) 9 (41%) 8 (36%) 3 (14%) 1 (5%) 1 (5%) 1 (5%) 1 (5%) 1 (5%) 0 1 (5%) 9 (41%) 4 (18%) 4 (18%) 0 0	YR (46)* YR (72) 40.4±1.8 43.4±1.4 43±6.5 22 (48%) 9 (41%) 7 (37%) 8 (36%) 9 (47%) 3 (14%) 2 (11%) 1 (5%) 0 11 (50%) 1 (5%) 1 (5%) 1 (5%) 1 (5%) 1 (5%) 17 (77%) 17 (89%) 3 (14%) 1 (5%) 1 (5%) 0 1 (5%) 1 (5%) 0 1 (5%) 1 (5%) 4 (18%) 4 (18%) 5 (26%) 0 0 1 (5%)



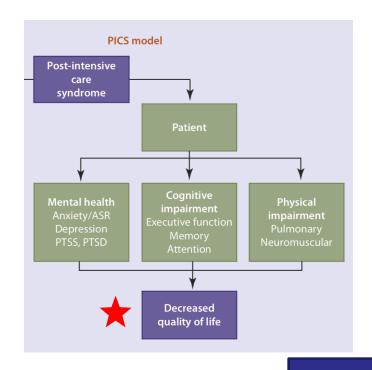




ICU implications

- What we do, or not do, in the ICU may have profound effects on patients post-ICU
 - Mobilisation
 - Nutrition
 - Medications (sedatives-NMB etc)
- Hence, to improve post-ICU morbidity-we also need to look at what is done in the ICU





Orwelius et al. Intensive Care Medicine Experimental 2015, 3(Suppl 1):A408 http://www.icm-experimental.com/content/3/S1/A408



POSTER PRESENTATION

Open Access

notional Mental health

Health-related quality of life at 2, 6 and 12 months after critical illness - lessons learnt from a nationwide follow-up of 4,500 ICU admissions

L Orwelius^{1,2,3*}, E Åkerman^{3,4}, C-J Wickerts³, SM Walther^{3,5,6}

Physical function

At 12 months 10-25% of patients Table 1. Longitudinal HRQoL (SI had scores < 2SD of the adjusted Swedish norm

2 mths (N = 1438)	50 (25-75)	0 (0-25)	52 (32-84)	54 (37-72)	45 (25-60) 63 (38-88)	33 (0-100)	72 (52-88)
6 mths (N = 1438)	65 (40-85)	25 (0-100)	62 (41-100)	57 (40-77)	55 (35-70) 75 (50-100)	100 (0-100)	80 (60-92)
12 mths (N = 1438)	70 (40-85)	25 (0-100)	62 (41-100)	57 (35-77)	55 (35-75) 75 (50-100)	100 (0-100)	80 (60-92



PROM and PREM

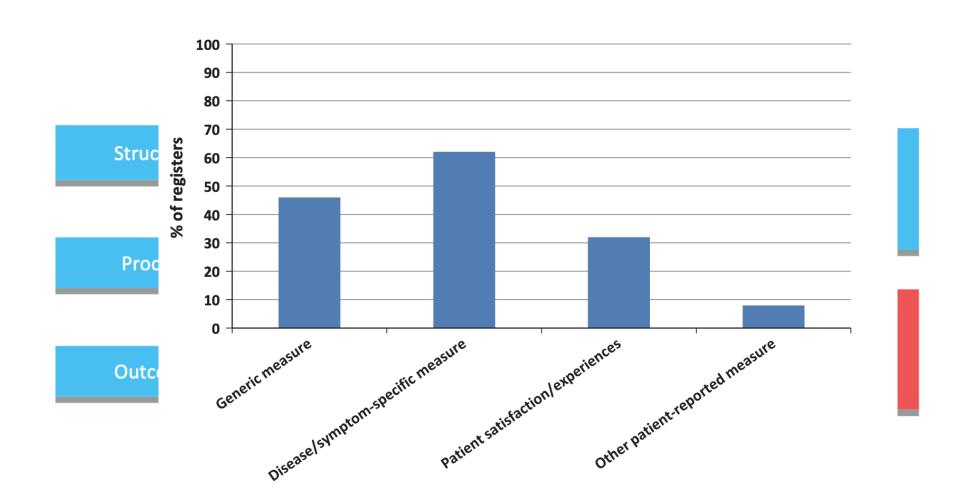
Review

Journal of INTERNAL MEDICINE

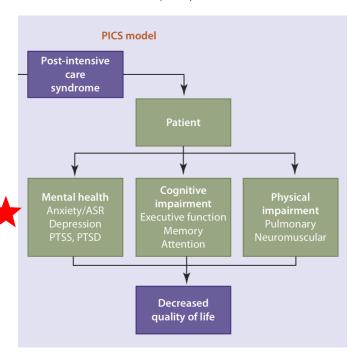
doi: 10.1111/joim.12409

Patient-reported outcomes in the Swedish National Quality Registers

■ E. Nilsson^{1,2}, L. Orwelius³ & M. Kristenson²







Righy et al. Critical Care (2019) 23:213 https://doi.org/10.1186/s13054-019-2489-3

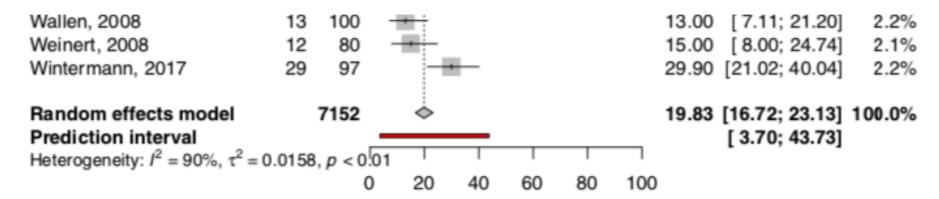
Critical Care

RESEARCH Open Access

Prevalence of post-traumatic stress disorder symptoms in adult critical care survivors: a systematic review and meta-analysis



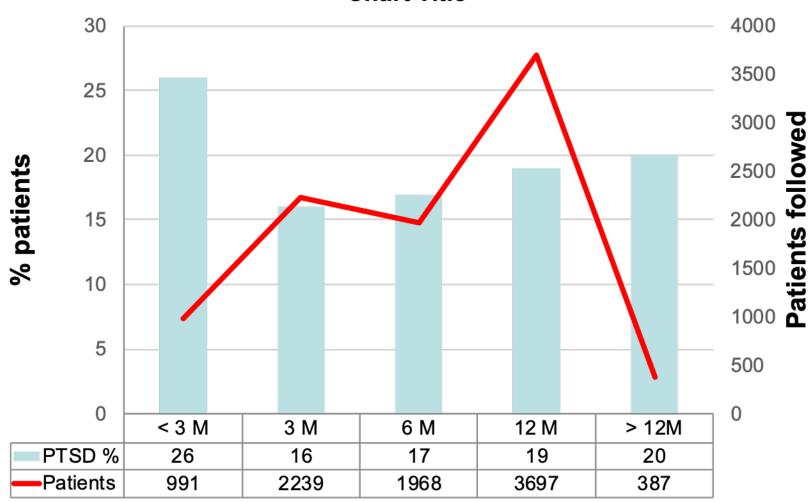
Cássia Righy^{1,2}, Regis Goulart Rosa^{3,4*}, Rodrigo Teixeira Amancio da Silva^{1,5}, Renata Kochhann⁴, Celina Borges Migliavaca^{4,6}, Caroline Cabral Robinson⁴, Stefania Pigatto Teche^{7,8}, Cassiano Teixeira³, Fernando Augusto Bozza^{1,9} and Maicon Falavigna^{4,6}



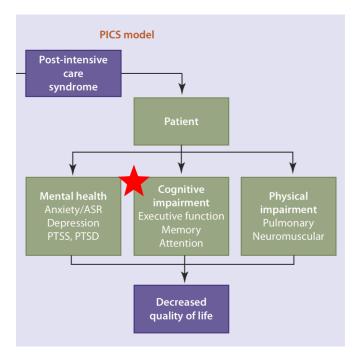


Time development: PTSD









Intensive Care Med (2013) 39:376–386 DOI 10.1007/s00134-012-2784-9

REVIEW

Annemiek E. Wolters Arjen J. C. Slooter Arendina W. van der Kooi Diederik van Dijk Cognitive impairment after intensive care unit admission: a systematic review

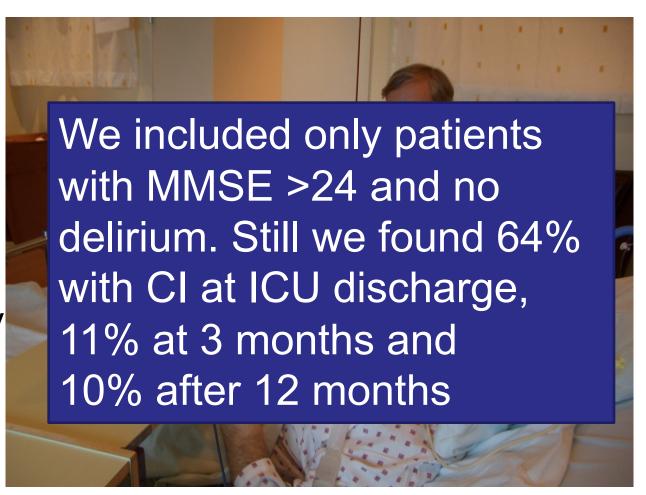
Summary:

- 19 studies
- 30-275 pts (4 > 100)
- 11-56% reduced cognitive status
- No pre-ICU cognitive measurement

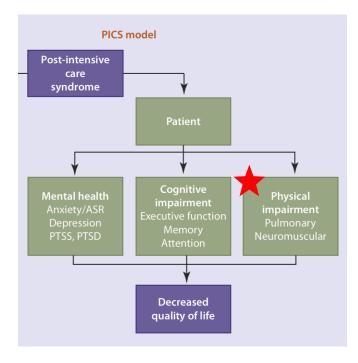


Methodological problems

- Pre-ICU cognitive status
- Small number of patients
- Different methods to screen and investigate cognitive function, no "gold standard"
- Very few use standard battery with cognitive tests
- Inclusion criteria varies a lot







- ICU acquired weakness
 - Myopathy
 - Neuropathy
- Pulmonary dysfunction (ARDS)
- Endocrinopaty
- ICU acquired immunosupression
- Pain
- Insomnia
- Sexual dysfunction

Table 2. Incidence of ICUAW.

Schweikert et al.⁸
Sharshar et al.¹⁵
Tepper et al.²⁶
Thiele et al.⁵⁰
Van den Berghe et al.²²
Weber-Carstens et al.³⁰

Witt et al.42

Total

References	No. of patients	No. with	Proportion with ICUAW (%)	95% CI
Ahlbeck et al. ³⁶	10	5	50	24–76
Ali et al. ²⁸	136	35	26	19–34
Amaya-Villar et al.43	26	9	35	19–54
Bednarik et al.51	61	35	57	45–69
Bercker et al. ³⁷	45	27	60	46–73
Berek et al. ³⁸	22	18	82	62–93
Brunello et al. 16	39	13	33	21-49
Campellone et al. ²⁵	77	7	9	5–18
Coakley et al.44	23	12	52	33–71
Coakley et al. ³⁹	44	37	84	71–92
De Jonghe et al. ²⁰	95	24	25	18–35
De Letter et al. ⁴⁵	98	32	33	24-42
Douglas et al. ⁴⁰	25	4	16	6–35
Druschky et al.41	28	16	57	39–74
Garnacho-Montero et al. 14	73	50	69	57–78
Garnacho-Montero et al. 12	64	34	53	41–65
Hermans et al. ²³	420	188	45	40–50
Hough et al. ³²	30	6	20	10–37
Hund et al. ⁴⁶	28	20	71	53–85
Kesler et al. ²⁹	170	30	18	13–24
Khan et al. ⁴⁷	20	10	50	30–70
Latronico et al. ²⁷	92	28	30	22-41
Leijten et al. ⁴⁸	38	18	47	33–63
Mohr et al. ⁴⁹	33	7	21	11–38
Nanas et al. ²⁴	185	44	24	18–30
Routsi et al. ³¹	52	14	27	17 -4 0

Review article



The incidence of intensive care unit-acquired weakness syndromes: A systematic review

Journal of the Intensive Care Society 2015, Vol. 16(2) 126-136
© The Intensive Care Society 2014
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journalsPermissions.nav
DOI: 10.1177/1751143714563016
jics.sagepub.com

SSAGE

Richard TD Appleton¹, John Kinsella² and Tara Quasim²

33 prospective studies 2686 patients 40% ICUAW

Witt et al. 42	43	30	70	55–81
Total	2686	1080	40	38-42

Note: ICUAW, intensive care unit-acquired weakness; CI, confidence interval.



Table 4 Qualitative themes of physical health

From: Patient outcomes after critical illness: a systematic review of qualitative sti

RESEARCH Open Access



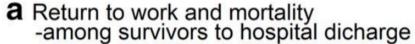
Patient outcomes after critical illness: a systematic review of qualitative studies following hospital discharge

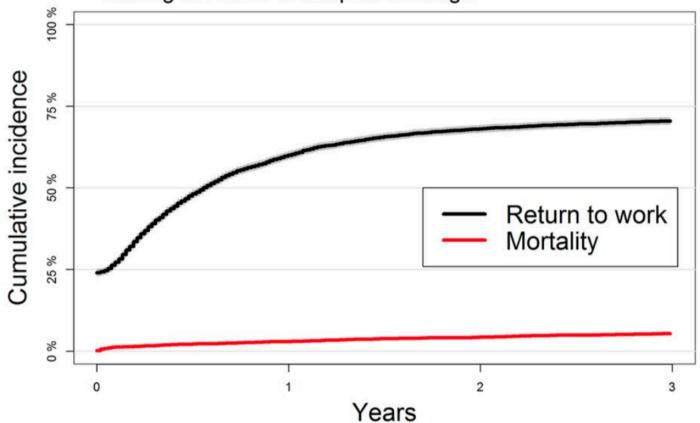
Mohamed D. Hashem^{1,2}, Aparna Nallagangula^{1,2}, Swaroopa Nalamalapu^{1,2}, Krishidhar Nunna^{1,2}, Utkarsh Nausran¹, Karen A. Robinson³, Victor D. Dinglas^{1,2}, Dale M. Needham^{1,2,4} and Michelle N. Eakin^{1,2,*}

Theme	Example quote(s)		
Mobility	1. "I can move now, before, I thought I will stay han up with a walker and I just couldn't. I couldn't even	PREM	the ability to walk again" 2. "Then I had to try to get
Activities of daily living	1. "My day-to-day life is anything but normal. I wan couple of weeks, we were sort of doing things li little bits for him, organizing what tablets he had t		hops recovery has been reasonable." 2. "For the first ort of thing. I practically was just running around doing
Fatigue	1. "I probably went too far. I mean, I was at home a it anyway." 2. "I need an afternoon nap, sometimes	ADL	and do things. But then I was tired and couldn't handle
Appetite	"Now it's going ok again, I'm eating well, and I'm sle really knowing where they should be"	Fatigue	frustration at not having an appetite and my insides not
Sensory changes	"I also have double vision I can't read I can't	Sensory changes	
Muscle weakness	"The most difficult bit was I felt it took forever I am up to my usual strength yet I feel that I need	Muscle weakness	ngth at the hospital and I still feel it. I mean, I don't feel I uite strong before I got sick."
Sleep disturbances	1. "I slept so badly, I had these awful dreams, really just to check" 2. "I'm sleeping really badly, I wak	Sleep disturbance	find that, well, everything's OK, and you wake up anyway ot doing me good."



Return to work





Subjects: 5762 3403 2650 2241 1911 1732 1607 1502 1367 1276 1188





Organ support therapy in the intensive care unit and return to work: a nationwide, register-based cohort study

ne Riddersholm^{1,2*}, Steffen Christensen³, Kristian Kragholm^{4,5}, Christian F. Christiansen⁶ I Bodil Steen Rasmussen^{1,2}



Conclusions so far

- Post intensive care syndrome is very common
- Most former ICU patients at some time after ICU discharge have symptoms of PICS
- Many would consider this of importance for ICUs as well as intensivists
- What can we do with this?



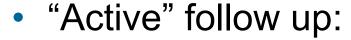
What is ICU follow up?

- Not easy to define
- In its essence it is just the act of tracking (following) ICU patients and/or caregivers after ICU/Hospital discharge
 - By various registries
 - . Official registries, quality registries, hospital records
 - By "indirect" contact (mail, e-mail):
 - Questionnaires
 - By direct contact, by telephone (interview) by home visit or as out-patient

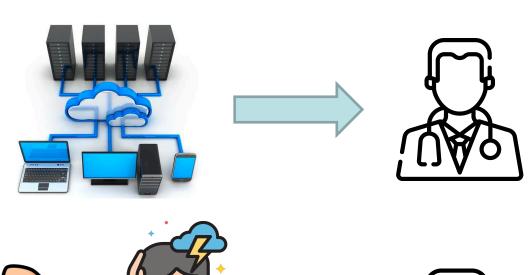


Another classification

- "Passive" follow up:
 - Retrieval of stored data



- Direct contact with former ICU patients to have their feedback
- Giving support/treatment/training to the patient/family







An important issue

- Most patients are in fact followed-up
- Focus on one or more underlying disease: examples
 - Post surgery
 - Coronary check-up
 - X-rays, tests etc
- Seldom focus on ICU related problems
- In fact: What do our colleagues know about problems with its root in the ICU?



PICS and ICU follow-up



 The general aims for ICU follow-up services have been to provide a forum where unmet health care needs can be identified and met

The first ICU follow-up clinics were established in the UK in 1985



Official recommendations for follow-up after ICU discharge

- Few international guidelines
 - Including Scandinavia
- The United Kingdom
 - The National Institute for Health and Care Excellence, NICE guidelines
 - Assessment of functional status, health and social care needs 2–3 months post discharge
 - Face to face in the community or in the hospital
 - Skilled healthcare professionals



UK experience

Quality statement

Adults who stayed in critical care for more than 4 days and were at risk of morbidity have a review 2 to 3 months after discharge from critical care.

> 4 days: Review at 2-3 months

Rationale

Follow-up is needed for adults who were in critical care for more than 4 days and at risk of morbidity, because further needs may become apparent after discharge. A review to reassess health and social care needs 2 to 3 months after discharge from critical care ensures that any new physical or non-physical problems are identified and further support is arranged as needed. Some adults who were in critical care for 4 days or less may also experience problems that need a review. Also, problems may emerge more than 3 months after discharge. The lifelong impact of a stay in critical care means that all adults who have experienced this should be able to self-refer and be reassessed at any time.



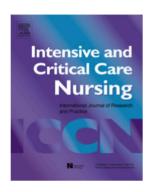
Intensive and Critical Care Nursing (2013) 29, 103-111



Available online at www.sciencedirect.com

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journal homepage: www.elsevier.com/iccn



ORIGINAL ARTICLE

ICU-recovery in Scandinavia: A comparative study of intensive care follow-up in Denmark, Norway and Sweden

Ingrid Egerod^{a,*}, Signe S. Risom^b, Thordis Thomsen^c, Sissel L. Storli^d, Ragne S. Eskerud^e, Anny N. Holme^f, Karin A.M. Samuelson^g



Model 1

Nurse-led follow-up with patient diary (Denmark, Norway, Sweden) Variations

- Follow-up at ward during diary handover
- Follow-up at ICU after hospital discharge
- Follow-up at hospital 2-3 months post hospital discharge
- Follow-up at hospital > 3 months post hospital discharge
 + optional phone call after 6-12 months
- Follow-up targeted long-term patients only (> one week in ICU)

Model 2

Nurse-led follow-up without patient diary (Denmark)

Follow-up at hospital 2-3 months post hospital discharge

Model 3

Multidisciplinary follow-up with patient diary (Sweden) Variations

- Follow-up at hospital after discharge based on diary and hospital chart
- Follow-up at hospital after discharge based on validated instruments

Model 4

Multidisciplinary follow-up without patient diary (Denmark)

Follow-up at hospital 2-3 months post hospital discharge



Available online at www.sciencedirect.com

SciVerse ScienceDirect

journal homepage: www.elsevier.com/iccn



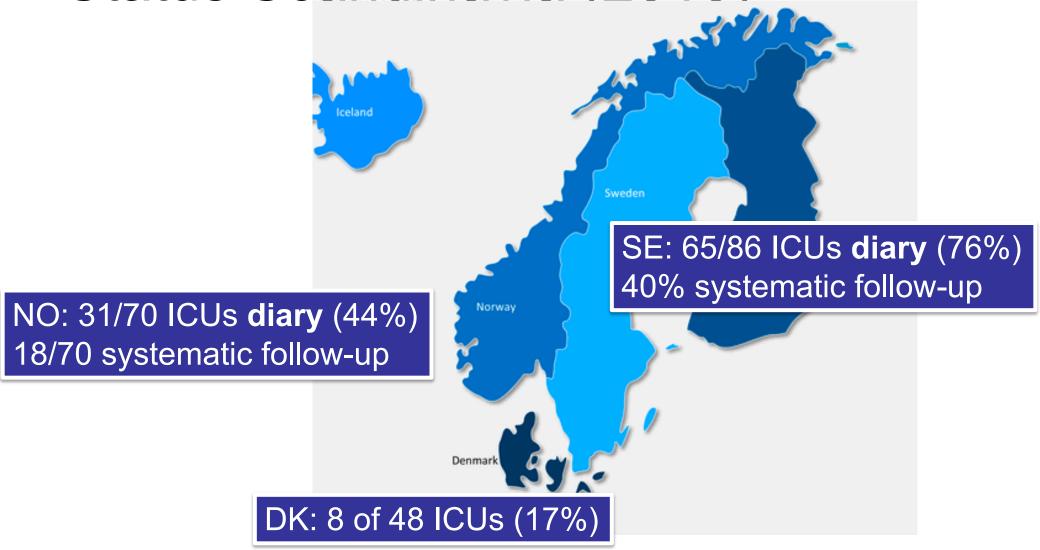
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Status Scandinavia (2013)





Description of content and follow-up in Scandinavia

Stage of trajectory	Time of intervention	Common elements in follow-up
During ICU stay	In ICU	Patient diary written by nurses and in some cases family
		Rehabilitative interventions: Minimal sedation, early mobilisation, delirium prevention, reorientation, patient and family collaboration
After ICU transfer	At transfer	Transfer from ICU to ward, step-down, or other ICU
	3-5 days post transfer	ICU-nurse visits patient on ward, follow-up initiated, consent for contact after discharge, assessment using ICU-Memory Tool
After hospital	At discharge	Discharge from hospital to home or rehabilitation facility
discharge	1 month post discharge	Information material sent to patient
	1-2 months post discharge	Invitation to follow-up visit
	2-3 months post discharge	Follow-up visit (nurse-led or interdisciplinary), diary review, revisit ICU, patient tells story, family collaboration, patient assessment for anxiety and depression (HADS), posttraumatic stress (PTSS-14), self-assessed health (SF-36)
	3, 6, 12 months post discharge	Additional follow-up, telephone contact, repeat SF-36

HADS (Hospital Anxiety and Depression Scale); SF-36 (Short-Form 36-Question Health Survey); PTSS-14 (Post Traumatic Stress Syndrome 14-Questions Inventory)



Follow-up research



Contents lists available at ScienceDirect

Journal of Critical Care



journal homepage: www.journals.elsevier.com/journal-of-critical-care

Effects of post-ICU follow-up on subject outcomes: A systematic review and meta-analysis



Regis Goulart Rosa ^{a,d,*}, Giovanni Esteves Ferreira ^b, Thiago Wendt Viola ^c, Caroline Cabral Robinson ^d, Renata Kochhann ^d, Paula Pinheiro Berto ^e, Livia Biason ^a, Paulo Ricardo Cardoso ^e, Maicon Falavigna ^d, Cassiano Teixeira ^a

Aim: The aim was to synthesize data on effects of post-ICU follow-up on subject outcomes

Included studies: Observational and intervention studies (n=26)

Sample: Variety of patient conditions and illnesses (n=35567)

Intervention: In hospital wards, clinic based appointments or home visits





Contents lists available at ScienceDirect **Journal of Critical Care**





Follow-up research Results:

Effects of post-ICU follow-up on subject outcomes: A systematic review and meta-analysis



Regis Goulart Rosa a.d.*. Giovanni Esteves Ferreira b. Thiago Wendt Viola c. Caroline Cabral Robinson d. Renata Kochhann ^d. Paula Pinheiro Berto ^e. Livia Biason ^a. Paulo Ricardo Cardoso ^e. Maicon Falavigna d. Cassiano Teixeira

Post-ICU follow-up is associated with improvements in depressive symptoms and mental quality of life in the short term

Post-ICU follow-up may be beneficial to post-traumatic stress in the medium term



Follow-up after ICU discharge

Aim: Identify the effectiveness of follow-up services

Intervention: consultations performed by ICU or allied health care professional

Main outcome: anxiety, depression, mortality, quality of life

Studies included: Five studies included (four were nurse-led)



Cochrane Database of Systematic Reviews

Follow-up services for improving long-term outcomes in intensive care unit (ICU) survivors (Review)

Schofield-Robinson OJ, Lewis SR, Smith AF, McPeake J, Alderson P



Follow-up after ICU discharge

Results:

- No effect on quality of life and number of deaths 12 months
- No reduction in level of anxiety, depression and posttraumatic stress
- No improvement in physical or cognitive functioning
- No increased ability to return to work/ education



Summary and critique of the research

- One review concluded with no effect of follow-up services
- The other review indicated that follow-up services may make a difference on specific outcome measures
- Who performed the follow-up service
- Timing of the follow-up service varied
- Content of the follow-up service varied
- Outcome measure varied



ICU diary: Experiences from our own unit



Jones et al. Critical Care 2010, **14**:R168 http://ccforum.com/content/14/5/R168



RESEARCH

Open Access

Intensive care diaries reduce new onset post traumatic stress disorder following critical illness: a randomised, controlled trial

Christina Jones^{1,2}, Carl Bäckman³, Maurizia Capuzzo⁴, Ingrid Egerod⁵, Hans Flaatten⁶, Cristina Granja⁷, Christian Rylander⁸, Richard D Griffiths^{1,2*}, the RACHEL group



JAMA. 2019;322(3):229-239.

JAMA | Original Investigation | CARING FOR THE CRITICALLY ILL

Effect of an ICU Diary on Postty Courtic Stress Disorder Symptoms Among Patient Civing Mechanical Ventil A Randomized Clinical Eving Mechanical Ventilation

Maité Garrouste-Orgeas, MD; Cécile Flahault, PhD; Isabelle Vinatier, MD; Jean-Philippe Rigaud, MD, PhD; Nathalie Thieulot-Rolin, MD;



Looking at the right patients

Table 1 Comparison of

Variables (median, range)

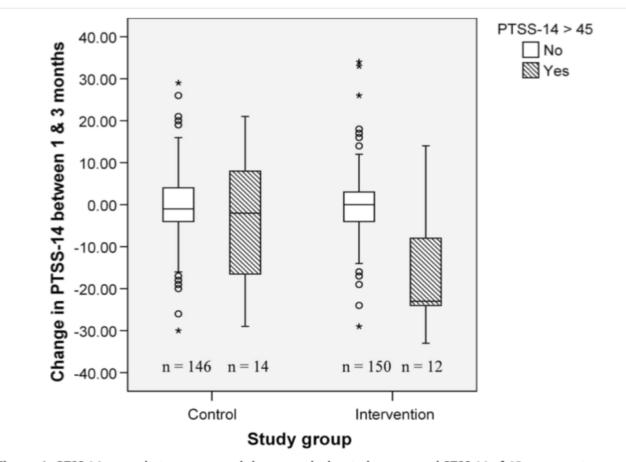
Age

ICU stay (days)

Hours ventilated

APACHE II severity score

Total PTSS 14 score at 1 mont



P values

NS

NS

NS

NS

NS

(n = 162)

(5.5)

12.7)

233)

7.3)

2.2)

Figure 2 Change in PTSS-14 scores between one and three months by study group and PTSS-14 of 45 or more at one month. Patient n the intervention group with a post-traumatic stress syndrome (PTSS)-14 score above the cut-off of 45 at one month had a significant reduction in the PTSS-14 symptom score at three months (Fisher's exact test P = 0.04).



PICS-F

WHAT ABOUT THE CARE-GIVERS?



Symptoms, post-traumatic stress and quality of life in family caregivers of intensive care unit patients – a longitudinal study

Hanne Birgit Alfheim, RN, MN

Symptoms, PTS and QOL in family Caregivers of ICU patients, a longitudinal study

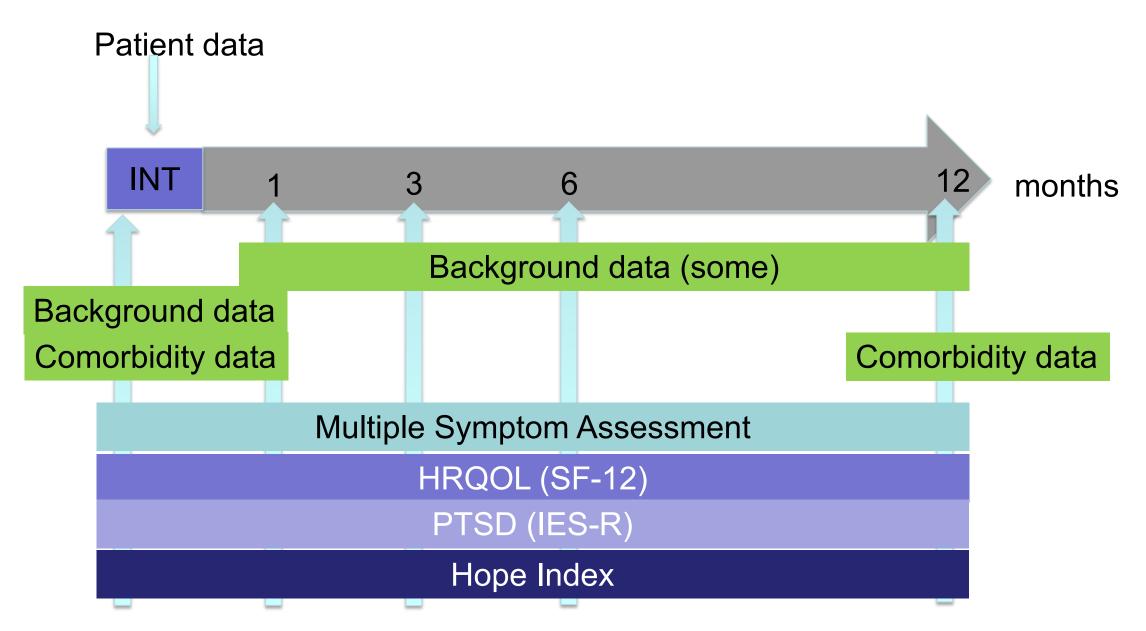


Institute of Clinical Medicine, Faculty of Medicine, University of Oslo Division of Emergencies and Critical Care, Oslo University Hospital

UiO • Faculty of Medicine
University of Oslo









Post-traumatic stress

Intensive & Critical Care Nursing 50 (2019) 5-10



Contents lists available at ScienceDirect

Intensive & Critical Care Nursing





Research Article

Post-traumatic stress symptoms in family caregivers of intensive care unit patients: A longitudinal study



Hanne Birgit Alfheim a,b,c,*, Kristin Hofsø b,d, Milada Cvancarova Småstuen b,e, Kirsti Tøien a,b, Leiv Arne Rosseland b,c, Tone Rustøen b,f

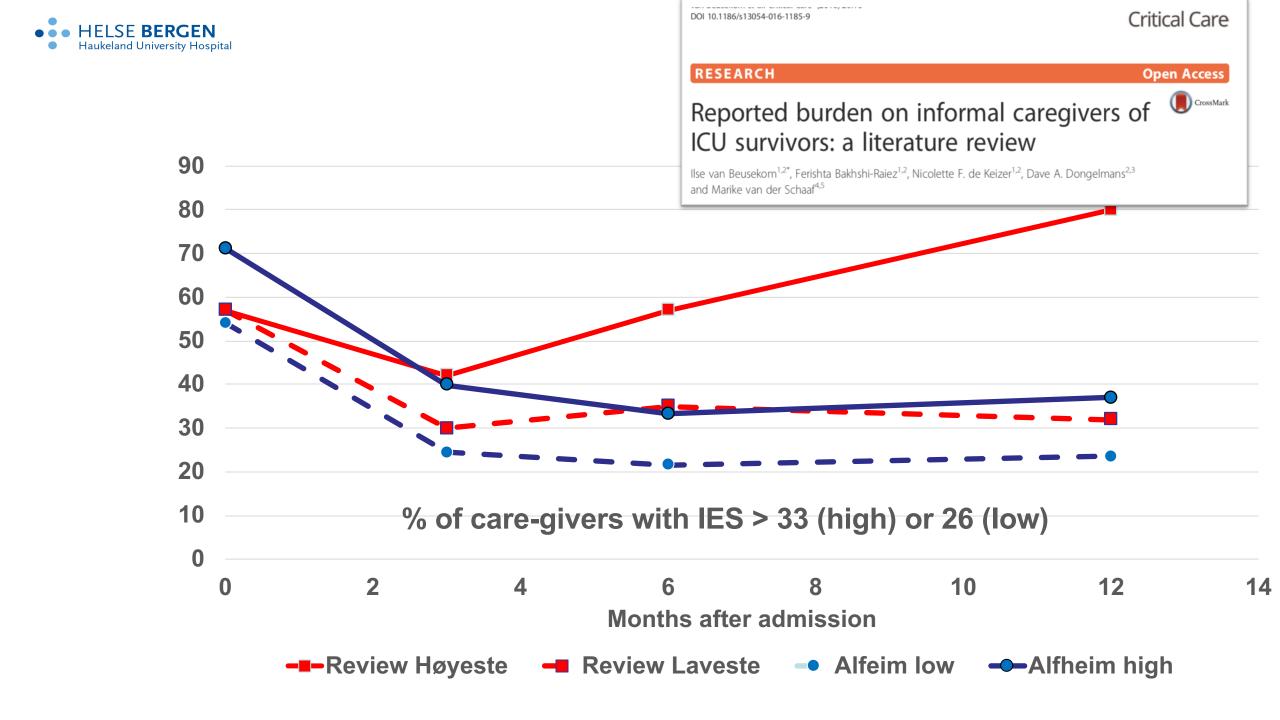




Table 3
Linear mixed model of fixed effects for post-traumatic stress symptoms.

Variable	Fixed effects		
	Estimate	P-value	95% confidence interval
Age	-0.17	0.019	−0. 31 to −0.03
Gender			
Female	2.27	0.155	-0.87 to 5.41
Male	Reference value		
Education			
Primary/secondary	1.40	0.334	-1.45 to 4.25
College/university	Reference value		
Employment status			
Sick leave	4.25	0.010	1.03 to 7.47
Not on sick leave	Reference value		
Relationship to the patient			
Spouse, child, other	4.51	0.024	0.59 to 8.44
Parent	Reference value		
Hope (HHI)			
Low level of hope (score 0-37)	5.68	< 0.001	2.77 to 8.59
High level of hope (score 38–48)	Reference value		
Comorbidities (SCQ)	2.27	<0.001	1.61 to 3.71
Time			
1 month	-6.18	< 0.001	−8.02 to −4.33
3 months	-10.65	< 0.001	-12.62 to -8.67
6 months	-13.50	< 0.001	-15.44 to -11.54
12 months	-13.72	< 0.001	-16.09 to -11.35
At enrolment	Reference value		

Hope



Quality of life

nustranan chucar care ana (2010) 1



Contents lists available at ScienceDirect

Australian Critical Care

journal homepage: www.elsevier.com/locate/aucc



Research paper

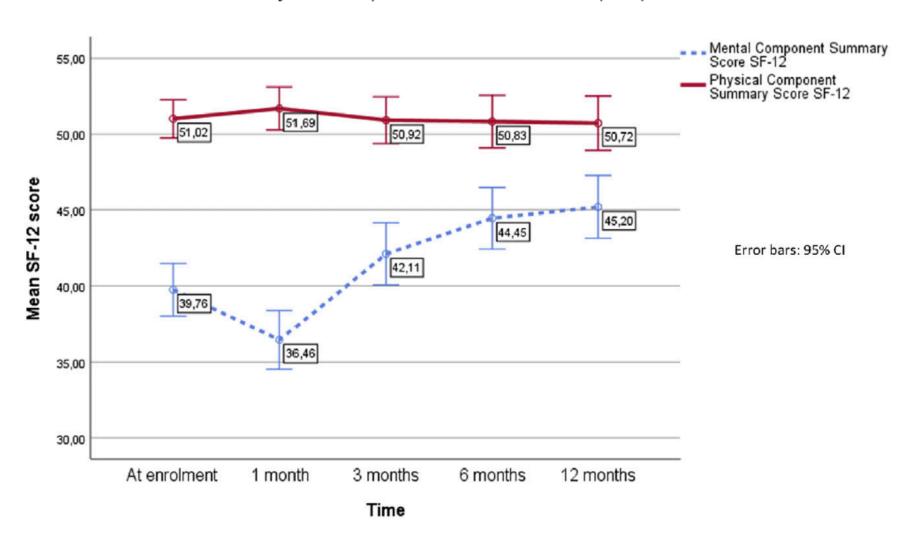
Quality of life in family caregivers of patients in the intensive care unit: A longitudinal study

Hanne Birgit Alfheim, RN, MN ^{a, b, c, *}
Milada Cvancarova Småstuen, PhD ^{b, d}
Kristin Hofsø, RN, PhD ^{b, e}
Kirsti Tøien, RN, PhD ^{a, b}
Leiv Arne Rosseland, MD PhD ^{b, c}
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SF-12 in care-givers

H.B. Alfheim et al. / Australian Critical Care xxx (2018) 1-7





Research article | Open Access | Open Peer Review | Published: 09 January 2012

Posttraumatic stress symptoms and health-related quality of life: a two year follow up study of injury treated at the emergency department

Juanita A Haagsma [™], Suzanne Polinder, Miranda Olff, Hidde Toet, Gouke J Bonsel & Ed F van Beeck

BMC Psychiatry 12, Article number: 1 (2012) Cite this article

Results

Symptoms indicative of PTSD were associated with more problems on all EQ-5D and HUI3 domains of functional outcome and a considerable utility loss in both hospitalized (0.23-0.24) and non-hospitalized (0.32-0.33) patients. Differences in reported problems between patients with IES scores higher or lower than 35 were



Annual report NIR-2018

 $Norsk\ intensivregister$

Årsrapport for 2018 med plan for forbetringstiltak

Versjon 1.1

EIRIK ALNES BUANES¹, REIDAR KVÅLE² OG ANDREAS BARRATT-DUE³

¹Leiar, Norsk intensivregister ²Norsk intensivregister ³Leiar av Fagrådet, Norsk intensivregister

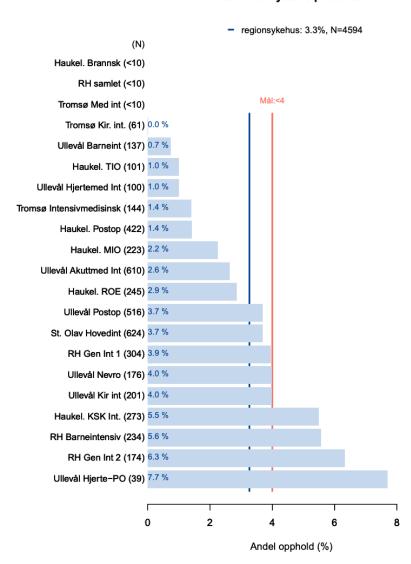
16. oktober 2019

www.intensivregister.no

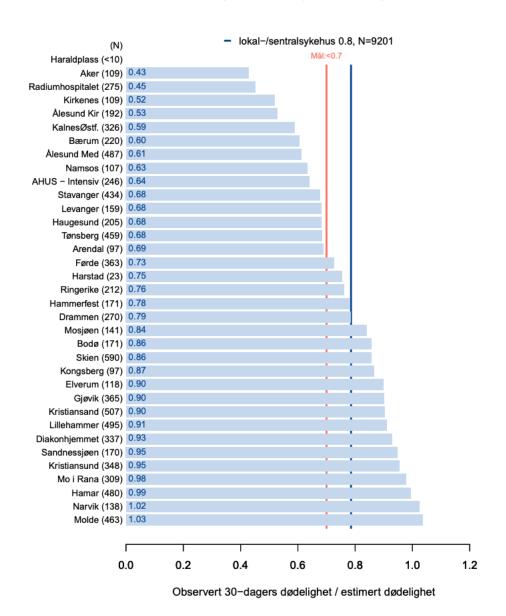


Oynoriustype, region

Reinnleggelser på intensivavd. (innen 72t) uten overflyttede pasienter



SMR, lokal-/sentralsykehus (uten reinnlagte pasienter)





6.3 Pasientrapporterte resultat- og erfaringsmål (PROM og PREM)

PROM

- From 2019 we will use EQ-5D
- Will be sent electronically to all survivors at 3 and 12 months post hospital discharge

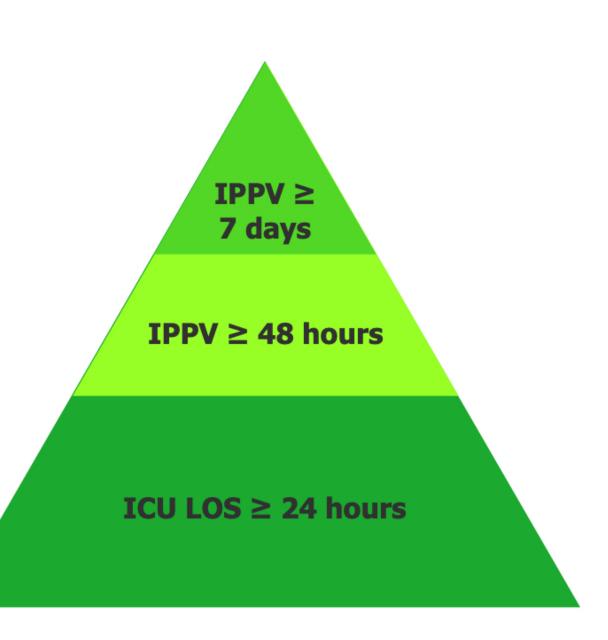
PREM

- We have decided to use caregivers experience as a proxy to patient experience
- FS-ICU
 - Family satisfaction in the Intensive Care Unit
 - A 24-item questionnaire
 - Well validates
 - Closely mirror patient experiences

https://www.ncbi.nlm.nih.gov/books/NBK333186/



Where to start?







The long and winding road....to recovery