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### Mental and physical disorders after ICU discharge

Current Opinion in Critical Care 2010, 16:510–515

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#### **INTRODUCTION**

■ The last decade → more focus on long term outcome

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# Long-term non mortality outcomes - physical and mental outcomes - post ICU - po

# Health-related quality of life after ICU discharge HRQOL after ICU discharge probably never will equal normal Another cohort was followed from pre-ICU until 5 years later. →quality of life ↓ ↑ to premorbid levels at 12 m. ↓ from 2.5 to 5 years 1663 p'ts f/u 6, 12, 24, 36m post-ICU. The most significant factor to explain HRQOL ↓ → pre-existing diseases

### Health-related quality of life after ICU discharge

 Severe trauma probably permanent ↓ QOL

Table 1 Long-term outcomes after severe trauma							
Author	Year	Points	Mortality	ISS	Method	Follow-up	QOL
Frutiger [8]	1991	167	18.4%	29.3	gos	5 years	
Thiagarajan [9]	1994	64	NA.		NHP	NA.	1
Vazquez Mata [10]	1996	351	24.7%	23.6	Local	1 and 2 years	111
Miller [11]	2000	90	22%	29	FIM	3 months	1
Evans [12,13]	2003	109	NA	22.7	OPCS	5 years	1
Dimopoulou [13]	2004	87	NA	22	NHP	1 year	i
Ulvik [14]	2008	210	17.8%	25	EQol 5D	2-7 years	i

Elderly
 30 ~50% survive 12 m
 live independently at home although high
 1-year mortality (69%).

#### Functional and working status

Low (23~35%)be able to work V.S. being employed

- Early exercise (still on ventilator) may
   independent functional
- A walking test (the 6-min walk test) motor, pulmonary, circulatory

#### Organ function

lack of standardized methods

Pulmonary function

Most in ARDS p'ts extracorporeal membrane oxygenation (ECMO) related to fibrosis

Renal function

HRQOL ↑ 28d ~ 6m but was still reduced

#### Neuromuscular function

critical illness neuropathy and myopathy (CIP and CIM) up to 50%

Detecting CIP and CIM as early as 4 days after admission is possible → early physical and occupational therapy

#### Mental function

Insomnia, severe depression, post-traumatic stress disorders.

Recent advances regarding anxiety & depression & cognitive dysfunction & ICU delirium

#### Anxiety and depression

	Risk factors				
Depression	alcohol dependence, female gender				
	& age (young more than elderly)				
Anxiety	PO2 ratio and length of mechanical ventilation				
Later anxiety and depression.	presence of anxiety and depression at year 1				

- Another review neither sex, age nor severity of the disease were found to be risk factors.
- → early symptoms of depression is strong predictor for subsequent depression.

#### Cognitive dysfunction

- Unconsciousness to minor, often called 'hidden' dysfunction
- Common in the 1st short period after ICU and most tends to normalize after the 1st year
- Even affect HRQOF after a long time 24% still had cognitive impairment 41% Disability

All patients with cognitive impairment were disabled

#### Delirium

- Common in ICU p'ts
- **11~80%**
- Long-term effects remain uncertain
- Increased mortality

#### Conclusion

- No single measure of such morbidity is available neither for physical nor for mental outcome
- We still need more data on specific outcome parameters for prevention

#### Thank you for your attention!!

