Appendix 1 Description of potential prognostic determinants mentioned in literature

Category*	Determinant	Category	Description
1, 3	Age[14, 27, 28]†	In years	
1	Medical specialty†	Surgery, Medical,	
		Neurology or	
		Geriatrics	
1	Sex[27]	Male, female	
2, 3	Weight at admission[14]	†In kg	
	Height[14]	In cm	
2, 3	Body mass index at	Weight/height <sup>2</sup>	
	admission[14, 27]†		
3	Malnutrition at	Yes/no	>5% weight loss in 1♣month or >10%
	admission[14]		weight loss in 6♣months prior to admission
3	Current smoking[14, 27]	Yes/no	
2, 3	Neurological	No	
	impairment[28]		
		Minor impairment	
		Sensibility impaired	d
		Hemiplegic	
		Spinal cord lesion	
		above th 6	
		Spinal cord lesion	
		under th 6	
2,3	General physical	Good	
	condition[29]		

Category*	Determinant	Category	Description
		Fair	
		Poor	
		Very bad	
2	Mental condition[28, 29]	Alert	
		Listless/drowsy	
		Confused	
		Severe	
		depression/apathetic	
		Stupor/coma	
		Sedated	
2	Mobility[14, 27–30]†	No limitation	Makes major and frequent changes in
			position without assistance.
		Slightly limited	Makes frequent though slight changes in
			body or extremity position independently.
		Very limited	Makes occasional slight changes in body or
			extremity position but unable to make
			frequent or significant changes
			independently.
		Completely	Does not make even slight changes in body
		immobile	or extremity position without assistance.
2	Activity[14, 28–30]†	Walks frequently	Walks outside the room at least twice a day
			and inside room at least once every two
			hours during waking hours.
		Walks occasionally	Walks occasionally during day but for very

Category*	Determinant	Category	Description
			short distances, with or without assistance.
			Spends majority of each shift in bed or
			chair.
		Chair fast	Ability to walk severely limited or non-
			existent. Cannot bear weight and/or must be
			assisted into chair or wheelchair.
		Bed fast	Confined to bed.
2	Sensory perception[27–	No impairment	Responds to verbal commands. Has no
	30]		sensory deficit which would limit ability to
			feel or voice pain or discomfort.
		Slightly limited	Responds to verbal commands but cannot
			always communicate discomfort or need to
			be turned
			OR
			Has some sensory impairment which limits
			ability to feel pain or discomfort in 1 or 2
			extremities.
		Very limited	Responds only to painful stimuli. Cannot
			communicate discomfort except by moaning
			or restlessness
			OR
			Has a sensory impairment which limits the
			ability to feel pain or discomfort over half
			body.

Category*	Determinant	Category	Description
		Completely limited	Unresponsive (does not moan, flinch or
			grasp) to painful stimuli, due to diminished
			level of consciousness or sedation
			OR
			Limited ability to feel pain.
2	Urine catheter[27, 28]†	No	
		Foley catheter	
		Suprapubis catheter	
2	Incontinence[27–30]†	Not	
		Occasional	
		Usually/urine	
		Usually/feces	
		Doubly	
2	Moisture[30]	Rarely moist	Skin is usually dry; linen only requires
			changing at routine intervals.
		Occasionally moist	Skin is occasionally moist, requiring an
			extra linen change approximately once a
			day.
		Very moist	Skin is often but not always moist. Linen
			must be changed at least once a shift.
		Constantly moist	Skin is kept moist almost constantly by
			perspiration, urine, etc. Dampness is
			detected every time patient is moved or
			turned.

ema (grade 1
2 or worse
Never refuses a
of 4 or more
products.
meals. Does not
als. Eats a total of
t or dairy
meal but will
if offered.
al and generally
food offered.
ly 3 servings of
day.
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Category*	Determinant	Category	Description
			Occasionally will take a dietary supplement.
		Very poor	Never eats a complete meal. Rarely eats
			more than 1/3 of any food offered. Eats 2
			servings or less of protein (meat or dairy
			products) per day. Takes fluids poorly.
			Does not take a liquid dietary supplement.
		No	Is NPO
3	Appetite[27]	Good	What the patient says
		Fair	
		Poor	
		Very bad	
3	Nutritional condition[27,	Good	
	28]		
		Fair	As if not having eaten for a few days or has
			eaten very badly.
		Poor	As if not having eaten for more than a week
			with vomiting or diarrhoea.
		Very bad/cachectic	As with terminal cancer patients
3	Oral fluid intake[14, 30]	>2#litre	
		1–2♣litre	
		<1 <b>\$</b> litre	
		None	
3	IV drip[30]	Yes/no	
2	Friction and shear[14,	No apparent	Moves in bed and in chair independently

Category*	Determinant	Category	Description
	30]†	problem	and has sufficient strength to lift up
			completely during move.
			Maintains good position in bed or chair at all
			times.
		Potential problem	Moves feebly or requires minimum
			assistance. During a move skin probably
			slides to some extent against sheets, chair,
			restraints or other devices. Maintains
			relatively good position in chair or bed most
			of the time but occasionally slides down.
		Problem	Requires moderate to maximum assistance
			in moving.
			Complete lifting without sliding against
			sheets is impossible. Frequently slides down
			in bed or chair, requiring frequent
			repositioning with maximum assistance.
			Spasticity, contractures or agitation leads to
			almost constant friction.
3	Medication use[14, 27,	Categorized	Painkillers, sleep medication, tranquilizers,
	28]	according to the	antibiotics, $\beta$ blockers, cytostatics,
		pharmacological	morphine, steroids, anticoagulants, other.
		compendium	
2	Pain[15]	No pain or effective	e
		pain medication	

Category*	Determinant	Category	Description
		Occasionally	
		Frequently	
		Constantly	
3	Fever[14, 28]	Yes/no	Temperature >38.5°C
3	Hypotension[14]	Yes/no	Systolic BP <100 mm Hg and/or diastolic
			BP <60*mm*Hg
3	Hypertension[14]	Yes/no	Systolic BP >160 mm Hg and/or diastolic
			BP >95*mm*Hg
3	Former pressure	Yes/no	
	ulcer[21]†		
3	Hemoglobin level[14]†	In 0.1&mmol/l	
3	Leukocytes at	Absolute count	
	admission[14]		
3	Albumin <35 <b>♣</b> g/l at	Yes/no	
	admission[14]		
3	Total protein <60♣g/l at	Yes/no	
	admission[14]		
3	Lymphocyte count	Yes/no	
	<1200 <b>♣</b> mm³ at		
	admission[14]		
3	Co-morbidity, diagnosis,	Grouped according	
	complications[14]	to ICD 9 code	
3	Diabetes[14, 27, 28]†	Yes/no	

Category*	Determinant	Category	Description
3	Spinal cord lesion[14, 27	, Yes/no	
	28]		
2	Surgery[31]†	Yes/no	
2	Length of surgery[31]†	In hours	

<sup>\*</sup>Category 1, demographic data; 2, risk factors influencing the duration and intensity of pressure and shearing forces; 3, risk indicators influencing tissue tolerance.

†Univariate analysis (p<0.15).