#### Inclusion criteria for palliative care

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## ควรนำผู้ป่วยเข้าในการดูแลแบบ palliative care เมื่อไร?

ผู้ป่วย palliative care มักเป็นผู้ป่วยโรคเรื้อรังที่โรคดำเนินมาจนถึงระยะท้าย โรคหรือภาวะดังกล่าวได้แก่

- Advance cancers
- Advance diseases with poor prognosis:
  - End-stage heart failure
  - End-stage lung diseases
  - End-stage renal failure
  - End-stage neurological diseases
- Cortical dementia
- HIV/AIDS

การพิจารณาว่าเมื่อใดควรเริ่มการดูแลแบบ palliative care บางครั้งไม่มีเส้นแบ่งแน่นอน ในประเทศสหรัฐอเมริกา มีการกำหนด inclusion criteria เพื่อนำผู้ป่วยเข้ารับบริการแบบ hospice care จึงมีการกำหนดหลักการที่ชัดเจนเพื่อความ สะดวกแก่แพทย์ในการวินิจฉัยและพิจารณานำผู้ป่วยเข้ารับบริการ (ตารางที่ 1) ผู้ป่วยสามารถได้รับการดูแลแบบ palliative care ขณะอยู่ในโรงพยาบาลและสามรถทำควบคู่กันไปกับการรักษาแบบ curative care แต่ถ้าผู้ป่วยต้องการรับบริการ hospice care มีข้อกำหนดว่าผู้ป่วยต้องยุติการรักษาแบบ curative

ในส่วนของประเทศสหราชอาณาจักร ได้มีข้อแนะนำให้แก่แพทย์ในการนำผู้ป่วยเข้าสู่การดูแลแบบ palliative care ตาม Gold Standard Framework โดยการให้แพทย์ถามคำถามในใจว่าท่านจะประหลาดใจหรือไม่ถ้าผู้ป่วยรายนี้จะ เสียชีวิตภายใน 6-12 เดือน (Surprise question) ถ้าคำตอบคือไม่ประหลาดใจผู้ป่วยรายนั้นคือผู้ป่วย palliative แต่ถ้า คำตอบคือประหลาดใจหรือไม่แน่ใจ ให้แพทย์มองหา general clinical indicators ที่บ่งบอกถึงสมรรถนะที่ถดถอยหรือการ ต้องเข้ารักษาตัวในโรงพยาบาลบ่อยหรือมีโรคร่วมอื่นๆที่มีผลต่อการดำเนินโรคของผู้ป่วย นอกจากนี้ให้แพทย์ดูว่ามี disease related indicators ด้วยหรือไม่ (ตารางที่ 2)

ในส่วนของผู้ป่วยเด็ก เนื่องจากการเสียชีวิตในเด็กส่วนใหญ่แตกต่างจากผู้ใหญ่ซึ่งในผู้ใหญ่มัเสียชีวิตจากโรคเรื้อรัง ในเด็กพบว่าการเสียชีวิตส่วนใหญ่อยู่ในช่วงทารกแรกคลอดจากภาวะคลอดก่อนกำหนดและภาวะความพิการแต่กำเนิด และ โรคเรื้องรังในเด็กมักเป็นโรคจากภาวะผิดปกติทางพันธุกรรมและเมตาโบลิก รวมถึงการดำเนินโรคจะเรื้อรัง และอยู่ในโปรแกรม บริการนานกว่าผู้ใหญ่ The Center for Advance Palliative Care ในสหรัฐอเมริกาได้กำหนด inclusion criteria ในการ นำผู้ป่วยเด็กเข้าสู่โปรแกรม ดังในตารางที่ 3.

## ต้องเข้าใจว่า palliative care ไม่ใช่ cancer care หรือ chronic care หรือ geriatric care แต่ผู้ป่วยที่มีโรคมะเร็ง โรคเรื้อรังหรือผู้สูงอายุในระยะท้ายจำเป็นต้องมีการดูแลแบบ palliative care

## ตารางที่ 1. National Hospice and Palliative Care Organization

#### General Medical Guidelines for Determining Prognosis in Selected Non-Cancer Diseases

The patient should meet all of the following criteria:

- I. The patient's condition is life limiting, and the patient and/or family know this
- II. The patient and/or family have elected treatment goals directed toward relief of symptoms, rather than the underlying disease
- III. The patient has either of the following:
  - A. Documented clinical progression of the disease, which may include:
- 1. Progression of the primary disease process as listed in the disease-specific criteria, as documented by serial physician assessment, laboratory, radiologic, or other studies
  - 2. Multiple emergency department visits or inpatient hospitalizations over the prior 6 months
  - 3. For homebound patients receiving home health services, nursing assessment may document decline
- 4. For patients who do not qualify under 1, 2, or 3, a recent decline in functional status should be documented; clinical judgment is required
  - B. Documented recent impaired nutritional status related to the terminal process:
    - 1. Unintentional, progressive weight loss of >10% over the prior 6 months
    - $2. \ Serum \ albumin < 25 \ g/L \ may \ be \ a \ helpful \ prognostic \ indicator, \ but \ should \ not \ be \ used \ in \ isolation \ from \ other \ factors \ above$

Highlights of Guidelines for Specific Diseases						
Heart	I. Intractable or frequently recurrent symptomatic heart failure, or intractable angina pectoris with heart failure					
Disease	II. Patients should already be optimally treated with diuretics and vasodilators					
	III. Other factors contributing to a poor prognosis: symptomatic arrhythmias, history of cardiac arrest and					
	resuscitation or syncope, cardiogenic brain embolism, or concomitant human immunodeficiency virus disease					
Pulmonary	I. Severe chronic lung disease, documented by dyspnea at rest, fatigue, decreased functional ability, or					
disease	increased exacerbation					
	II. Cor pulmonale or right heart failure					
	III. Hypoxemia at rest on supplemental oxygen					
	IV. Hypercapnia (pCO <sub>2</sub> >50 mm Hg)					
	V. Other factors contributing to a poor prognosis: unintentional continuing weight loss of >10% body weight					
	over the preceding 6 months; resting tachycardia greater than 100/min					
Dementia	I. Severe dementia: unable to ambulate without assistance and unable to communicate meaningfully					
	II. Presence of medical complications: aspiration pneumonia, sepsis, intractable decubitus ulcers					
	III. Other factors contributing to a poor prognosis: unable to dress without assistance, unable to bathe properly,					
	urinary and fecal incontinence					
HIV	I. CD4 <sup>+</sup> count <25 cells/µL					

	II. Viral load >100 000 copies/mL						
	III. Life-threatening concomitant conditions						
	IV. Other factors contributing to a poor prognosis: chronic persistent diarrhea for 1 year; persistent serum						
	albumin <25 g/L; concomitant substance abuse; age >50 years; decisions to forgo human immunodeficiency						
	virus disease treatment; and symptomatic heart failure						
Liver disease,	I. Both serum albumin <25 g/L, and either international normalized ratio >1.5 on no anticoagulants, or						
advanced	prothrombin time prolonged >5 seconds over control						
cirrhosis	II. At least 1 of the following: intractable ascites or hepatic encephalopathy, spontaneous bacterial peritonitis,						
	hepatorenal syndrome, recurrent variceal bleeding						
	III. Other factors contributing to a poor prognosis: progressive malnutrition, muscle wasting, continued active						
	alcoholism, hepatocellular carcinoma, and hepatitis B surface antigen positivity						
Renal	I. Creatinine clearance <0.17 mL/s (10 mL/min) and serum creatinine greater than 707.2 µmol/L (8.0 mg/dL)						
disease	II. End stage renal disease discontinuing dialysis, or dialysis-eligible but refusing, and therefore with uremia,						
	oliguria, intractable hyperkalemia, uremic pericarditis, hepatorenal syndrome, and/or intractable fluid overload						
	III. Other factors contributing to a poor prognosis: mechanical ventilation, malignancy of other organ systems,						
	chronic lung disease, advanced cardiac disease, advanced liver disease, sepsis, immunosuppression/acquired						
	immunodeficiency syndrome, albumin <35 g/L, cachexia, platelet count <25 $\times$ 10 $^{9}$ /L, age >75 years,						
	disseminated intravascular coagulation, gastrointestinal bleeding						
Acute stroke	I. Coma or persistent vegetative state, beyond 3 days' duration, or						
and coma	II. In postanoxic state, coma or severe obtundation, accompanied by severe myoclonus, persisting beyond 3						
	days past the anoxic event, or						
	III. Comatose patients with any 4 of the following on day 3 of coma (97% mortality by 3 months): abnormal						
	brain stem response, absent verbal response, absent withdrawal response to pain, serum creatinine >132.6						
	μmol/L (1.5 mg/dL), age >70 years, or						
	IV. Dysphagia severe enough to prevent the patient from receiving foods and fluids necessary to sustain life						
	(patient not using artificial nutrition/hydration)						
Chronic, after	I. Poor functional status, as evidenced by Karnofsky score of <50%, with evidence of recent decline						
stroke	II. Medical complications related to debility and progressive clinical decline, such as: aspiration pneumonia,						
	upper urinary tract infection, sepsis, refractory stage 3-4 decubitus ulcers, or fever recurrent after antibiotics						
	III. Also weigh: post-stroke severe dementia; age >70 years; poor nutritional status						
Adapted with perr	nission from: National Hospice Organization. Medical Guidelines for Determining Prognosis in Selected Non-Cancer Diseases; 1996.						



# Identifying patients for supportive and palliative care



### Supportive & Palliative Care Indicators Tool

#### 1. Ask

Would it be a surprise if this patient died in the next 6-12 months?

No

#### 2. Look for two or more general clinical indicators

Performance status poor (limited self care; in bed or chair over 50% of the day) or deteriorating.

Progressive weight loss (>10%) over the past 6 months.

Two or more unplanned admissions in the past 6 months.

A new diagnosis of a progressive, life limiting illness.

Two or more advanced or complex conditions (multi-morbidity).

Patient is in a nursing care home or NHS continuing care unit; or needs more care at home.

#### 3. Now look for two or more disease related indicators

#### Heart disease

NYHA Class III/IV heart failure, severe valve disease or extensive coronary artery disease.

Breathless or chest pain at rest or on minimal exertion.

Persistent symptoms despite optimal tolerated therapy.

Systolic blood pressure < 100mmHg and /or pulse > 100.

Renal impairment (eGFR < 30 ml/min).

Cardiac cachexia.

Two or more acute episodes needing intravenous therapy in past 6 months.

#### **Kidney disease**

Stage 4 or 5 chronic kidney disease (eGFR < 30ml/min).

Conservative kidney management due to multi-morbidity.

Deteriorating on renal replacement therapy with persistent symptoms and/or increasing dependency.

Not starting dialysis following failure of a renal transplant.

New life limiting condition or kidney failure as a complication of another condition or treatment.

#### **Respiratory disease**

Severe airways obstruction (FEV1 < 30%) or restrictive deficit (vital capacity < 60%, transfer factor < 40%).

Meets criteria for long term oxygen therapy (PaO2 < 7.3 kPa).

Breathless at rest or on minimal exertion between exacerbations.

Persistent severe symptoms despite optimal tolerated therapy.

Symptomatic right heart failure.

Low body mass index (< 21).

More emergency admissions (> 3) for infective exacerbations or respiratory failure in past year.

#### Liver disease

Advanced cirrhosis with one or more complications:

- intractable ascites
- hepatic encephalopathy
- hepatorenal syndrome
- · bacterial peritonitis
- · recurrent variceal bleeds

Serum albumin < 25g/l and prothrombin time raised or INR prolonged (INR > 2).

Hepatocellular carcinoma.

Not fit for liver transplant.

#### Cancer

Performance status deteriorating due to metastatic cancer and/ or co-morbidities.

Persistent symptoms despite optimal palliative oncology treatment or too frail for oncology treatment.

#### **Neurological disease**

Progressive deterioration in physical and/or cognitive function despite optimal therapy.

Symptoms which are complex and difficult to control.

Speech problems with increasing difficulty communicating and/or progressive dysphagia.

Recurrent aspiration pneumonia; breathless or respiratory failure.

#### **Dementia**

Unable to dress, walk or eat without assistance; unable to communicate meaningfully.

Worsening eating problems (dysphagia or dementia related) - now needing pureed/ soft diet or supplements.

Recurrent febrile episodes or infections; aspiration pneumonia.

Urinary and faecal incontinence.

4. Assess patient & family for supportive & palliative care needs. Review treatment/medication. Plan care. Consider patient for general practice palliative care register.

3PICT Version 12, December 2010

ตารางที่ 3. CAPC Inclusion criteria in pediatric age group

General referral	Automatic Suggested	
criteria		
Presence of a chronic, complex or life-	Conflicts regarding use of medical     nutrition/hydration in cognitively impaired,	New diagnosis of life-limiting or life-threatening disease
threatening	seriously ill or dying patients	Three or more hospitalizations within 6 months
illness/condition AND		Difficult pain symptom management
one or more of the		Patient, family or physician uncertainty regarding
following		prognosis
		Family with limited social supports
		AND (Aloow Natural Death)/DNR order or other ethical conflicts
		Complex care coordination and/or homegoing needs
		Prolonged hospitalization for >3 weeks
		Need for hospice resource utilization
Malignant disease	Progressive metastatic cancer	Any newly diagnosed malignant disease with an
criteria	Bone marrow/stem cell transplant	EFS of <40% with current therapies
	Diffuse intrinsic pontine glioma	Any relapsed malignant disease
	Stage IV neuroblastoma	Metastatic solid tumors
	Relapsed malignant disease following	New diagnosis with complex pain or symptom
	stemcell/bone marrow transplant	management issues
Pulmonary criteria	Patients with CF considering lung transplant/at	Patients with CF with multiple hospitalizations
	the time of transplant	Patients with CF with pain, dyspnea or other
	Patients with CF with FEV!<30%	symptoms who would benefit from symptom
	Patients with CF with vent dependence or those	management
	ineligible for lung transplant	Central hypoventilation syndrome
	Bronchiolitis obliterans	Patients who are chronically ventilator dependent
Genetic criteria	• Trisomy 18, 13,15	Rett's syndrome
	Asphysixiating thoracic dystrophy	Other rare chromosomal anomalies with known
	Severe forms of osteogenesis imperfect (type 3	poor neurologic prognosis
	or 4)	
	Potter Syndrome	
	Epidermolysis Bullosa	
Neurologic/	Progressive neurodegenerative conditions	Static encephalopathy
Neuromuscular/Neuro	Muscular dystrophy	MRCP with comorbidities
degenerative criteria	Spinal muscular dystrophy	Severe anoxic brain injury (not neonatal)
	Severe traumatic brain injury	
	Persistent vegetative state	
	Batten disease	

		<u> </u>
	Metachromatic leukodystrophy/ALD	
	Brain reduction syndrome: anencephaly,	
	hydranencephaly, Lissencephaly, severe	
	schizencephaly	
Metabolic /inclusion	Krabbe's disease	Severe mitochrondrial disorder
disease criteria	Hunter's/Hurler's disease	Severe metabolic disorders for which BMT is a
	Menke's disease	therapeutic consideration
	Pompe disease	
	Sanfilippo symdrome	
	Tay Sachs disease	
	• Fabry's disease	
	Sandoff's disease	
Infectious disease	HIV/AID resistant to antiretrovirals	Congenital CMV/toxo with neurological sequelae
criteria	Severe combined immune deficiency	Severe encephalitis
	,	Severe immunodeficiency syndrome, particularly
		those for which BMT is a consideration
Orthopedic criteria	Thanatophoric dwarfism	Severe progressive scoliosis
	·	Severe form of dwarfism
Renal criteria	Neonatal polycystic kidney	Renal failure, not transplant candidate
Gastrointestinal criteria	Muti-visceral organ transplant under	Feeding tube under consideration for any
	consideration	nerologic condition
	Biliary atresia	<ul> <li>Long-segment Hirshsprung's</li> </ul>
	Total aganglionosis of colon	Short-gut syndrome with TPN dependence
	Progressive hepatic or uremic emcephalopathy	Severe-feeding intolerance (autonomic
	Trostessive riepadie of dreime erricephatopatry	enteropathy/chronic interestinal pseudo
		obstruction)
Neonatal criteria	Extreme prematurity with concomitant severe	VLBW infants
	BPD, grade IV IVH, PVL, etc.	
	Severe birth asphyxia	
	Hypoxic ischemic encephalopathy (moderate to	
	severe)	
Cardiac criteria	Single ventricular cardiac physiology	Complex congenital hear disease
	Severe pulmonary hypertension	ECMO candidate
	Down syndrome with significant cardiac	Severe myocarditis
	abnormality	Section in Section 2
	Ebstein's anomaly	
	Eisenmanger's syndrome	
	Cardiomyopathy: hypertrophic or severe dilated	
	Pulmonary atresia (especially if associated with	
	hypoplastic pulmonary atresia)ongoing discussion	
	of cardiac transplant	

	•	Combination of cardiac diagnosis with underlying neurologic/chromosomal diagnosis		
Intensive care criteria	•	Prolonged or failed attempt to wean mechanical	•	PICU stay longer than two weeks
		ventilator	•	Irreversible brain injury that will impact functional
	•	Multi-organ system failure		status
	•	Compassionate extubation	•	Immersion injury
	•	Severe head injury following NAT		

## บรรณานุกรม

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