癌因性疲憊症於癌症早期緩和醫療之臨床角色

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癌症診療品質認證(107年)

【加分項目】基準3.3

癌症防治醫療機構應針對晚期癌症病人建立緩和醫療之照護標準與流程。

評 | 符合項目:

分 1 已建立晚期癌症病人接受緩和醫療之照護標準與流程。

說 2. 在兩種癌別或兩個腫瘤相關病房(安寧病房除外)開始實行。

明

晚期癌症病人接受緩和醫療之照護標準與流程。

備 2. 緩和照護團隊之成員名單。

文 3 緩和照護之執行紀錄□例如:照護服務單紀錄或病歷紀錄□□

件 4. 緩和照護團隊教育訓練課程大綱。

- 1. 晚期癌症定義:癌症出現遠處轉移或復發,但透過治療仍可延長病人 生命(生命預期存活期>6個月)。
- 2 照護標準與流程應包含啟動轉介緩和醫療之條件、轉介流程與照護服 務內容等。

- 重 3. 緩和照護團隊除需包含醫師(安寧專科醫師或腫瘤治療專科醫師)、 護理師、社工師、心理師外□亦可自行增加其他相關人員(如靈性關 懷人員等□。可由現有安寧緩和照護團隊或多專科團隊中成立功能小 組負責辦理。
 - 4. 緩和照護團隊成員應接受相關教育訓練,課程內容至少應涵蓋身心症 狀處理、共同醫療決策及照護者支持等面向。

108年醫學中心版教學醫院基準研修



- 西醫、牙醫、中醫之醫學生(clerk)、PGY、 住院醫師教學訓練計畫需加入全人照護
- 醫事類人員也需要落實全人照護教育

全人醫療 Holistic medicine

 A form of healing that considers the whole person -- body, mind, spirit, and emotions -- in the quest for optimal health and wellness.

癌症患者的醫療還包含多種層面

Many aspects of supportive care

Nutrition Pulmonary Tox.

Anaemia Diarrhoe/Obstipation Infections

Tumorlysis

Cardiotoxicity Neutropenia Paravasation

Antiemesis Paravasation
Fertility Tumorlygic

Fatigue Pain

Neurotoxicity Thrombocytopenia

Psychological support

Supportive measures in radiation therapy

Renal toxicity

Bone complications

Lymphedema

New Toxicities (Targeted drugs) Venous Thromboembolism

Palliative care

- an interdisciplinary approach to specialized medical and nursing care for people with lifelimiting illnesses
- It focuses on providing relief from the symptoms, pain, physical stress, and mental stress at any stage of illness. The goal is to improve quality of life for both the person and their family

因化療讓患者感到痛苦的事

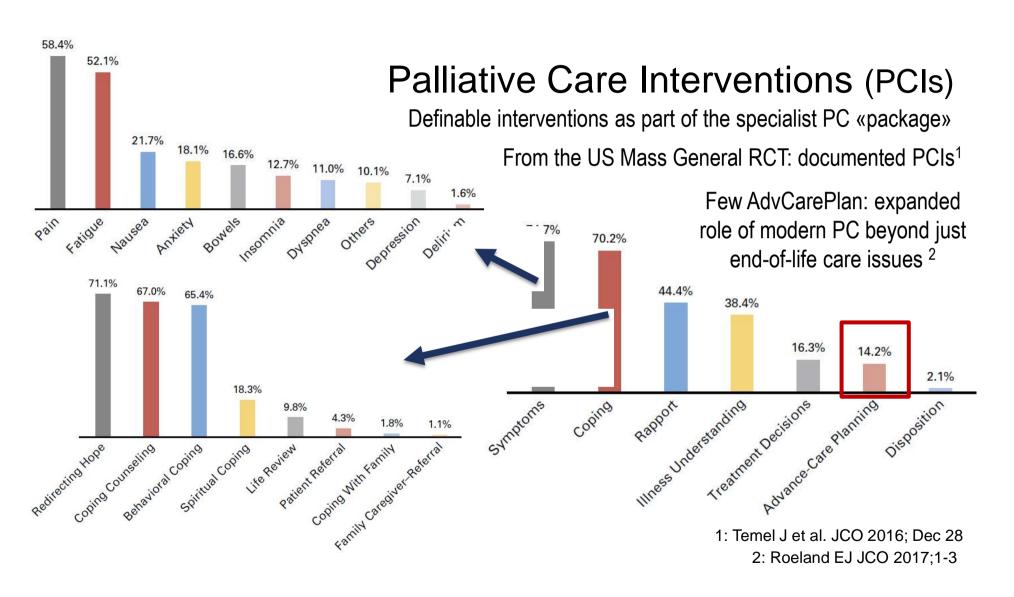
1983

- Being sick (vomiting)
- Feeling sick (nausea)
- Loss of hair
- Thought of coming for treatment
- Length of time treatment takes at the clinic
- Having to have an injection
- Shortness of breath
- Constantly tired
- Difficulty sleeping
- Affects family or partner

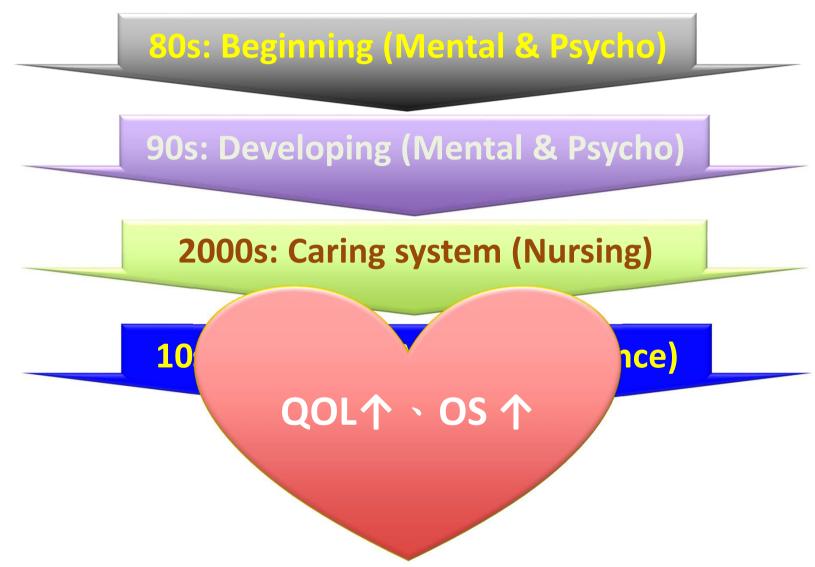
1995 5-HT3 / dex

- Feeling sick (nausea)
- Loss of hair
- Being sick (vomiting)
- Constantly tired
- Having to have an injection
- Constipation
- Thought of coming for treatment
- Affects family or partner
- Feeling low, miserable (depression)
- Feeling anxious

面對癌症患者的生理 病理以及心理層面



Palliative medicine in cancer care



全人醫療:

早期緩和醫療

Early Palliative care
Improve QOL and Save Life

2013年彙整

The NEW ENGLAND JOURNAL of MEDICINE

SOUNDING BOARD

Early Specialty Palliative Care — Translating Data in Oncology into Practice

Ravi B. Parikh, A.B., Rebecca A. Kirch, J.D., Thomas J. Smith, M.D., and Jennifer S. Temel, M.D.

早期緩和醫療的介入可以維持生活品質及延長存活

N Engl J Med 369;24 December 12, 2013

Table 1. Randomized Trials of Early Specialty Palliative Care Interventions in Patients with Cancer.

Trial Population Intervention Results

5 (or, really, 7) RCTS now show...

- ✓ No harm in any trial
- ✓ Better satisfaction
- ✓ Usually better Quality of life
- √ Sometimes better symptom control
- ✓ LESS depression and anxiety
- ✓ 2 show better survival, one significant 2.7 months in NSCLC
- ✓ No increased cost in any trial
- ✓ Usually markedly lower costs per day at least \$300/day
- √ 10-fold increase in hospice referrals

Patient Satisfaction and QOL

Trial	Population	Intervention	Results- Pt sat	Results- QOL
Gade et al	517 people "surprise ?" 31% cancer	Inpatient PC MDT consult	Increased satisfaction	No difference
Bakitas et al	322 people ~1 yr prognosis 100% cancer	Phone based PC by APN		Improved QOL Improved mood
Temel et al	151 people 100% newly dx metastatic NSCLC	Outpatient PC >=monthly MD or APN and Inpatient PC consult		Improved QOL Improved mood
Zimmerman et al	442 people 100% cancer 6mo-2yr prognosis	Outpatient PC >=monthly	Increased satisfaction	Improved QOL

Curtesy of Dr. 謝瑞坤

倡議早期緩和介入

Traditional Palliative Care

Life-prolonging or curative treatment

Palliative care to manage symptoms and improve quality of life

Diagnosis Death

Early Palliative Care

Life-prolonging or curative treatment

Palliative care to manage symptoms and improve quality of life

Diagnosis Death

Quality of life is improved by early palliative care compared with standard care

Figure 8. Forest plot of comparison: I Early palliative care vs standard oncological care, outcome: 1.5 Health-related quality of life (sensitivity analysis for study design including RCTs only).

			EPC	TAU		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Bakitas 2009	0.27	0.12	145	134	40.6%	0.27 [0.03, 0.51]	
Bakitas 2015	0.19	0.16	72	83	22.9%	0.19 [-0.12, 0.50]	
Maltoni 2016	0.33	0.18	64	65	18.1%	0.33 [-0.02, 0.68]	
Tattersall 2014	0.06	0.39	13	13	3.8%	0.06 [-0.70, 0.82]	-
Temel 2010	0.52	0.2	60	47	14.6%	0.52 [0.13, 0.91]	-
Total (95% CI)			354	342	100.0%	0.29 [0.14, 0.44]	•
Heterogeneity: Tau ² = 0.00; Chi ² = 2.14, df = 4 (P = 0.71); I ² = 0%							1 05 0 05 1
Test for overall effect: Z = 3.81 (P = 0.0001)							-1 -0.5 0 0.5 1 Treatment as usual Early palliative care

Project ENABLE

322 patients within 8-12 weeks of a new diagnosis of GI, lung, GU or breast cancer with a prognosis of approximately one year

Usual Care

Outcome Measures

Patient-reported Outcomes

- 1. FACIT Palliative Care
- 2. ESAS (symptom intensity)
- 3. CES-D (depression)

Health Service Utilization

- 1. Number of days in hospital, intensive care unit and emergency department
- 2. Use of advanced directives
- 3. Referral to palliative care or hospice

Early advance care planning

Curative or life-prolonging treatment

Advance care planning

Cancer diagnosis

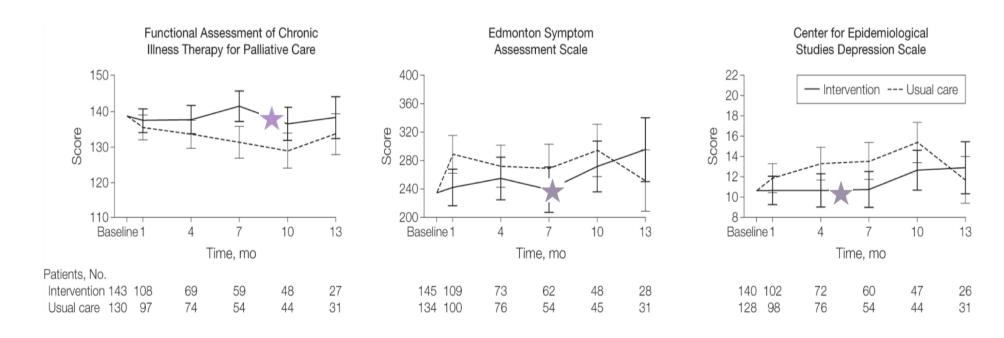
Death

Nature of the Intervention

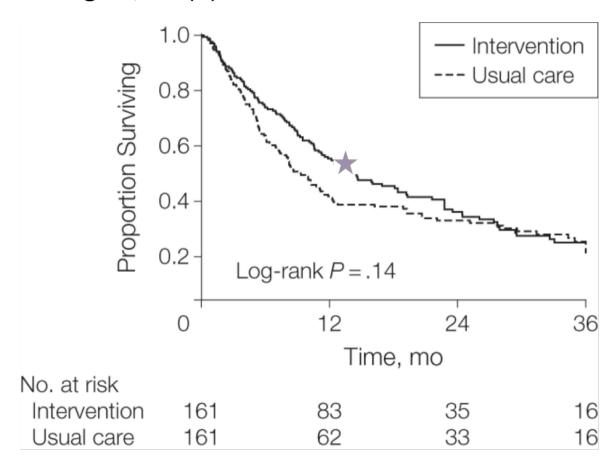
- Case management, educational approach to encourage patient activation, self-management and empowerment.
- Delivered in a manualized, telephone-based format (to administer to a rural population).
- Administered by advanced practice nurses with palliative care training.
- Included 4 initial structured educational and problem-solving sessions and at least monthly telephone follow up.



Palliative care nursing education in addition to usual oncology care – in RCT – allowed improved quality of life, fewer symptoms, and less depression. Bakitas M, et al. Project ENABLE. JAMA. 2009 Aug 19;302(7):741-9.



Palliative care in addition to usual oncology care led to a trend for improved lifespan. Bakitas M, et al. Project ENABLE. JAMA. 2009 Aug 19;302(7):741-9.



Randomized Trial in Patients with Lung Cancer

150 patients within 8 weeks of diagnosis of metastatic NSCLC with an ECOG PS 0-2

Integrated care

Standard care

Outcome Measures

Patient-reported Outcomes

- 1. FACT Lung
- 2. HADS (mood)
- 3. PHQ-9 (depression)
- 4. Prognostic awareness

Health Service Utilization

- 1. Hospice referrals
- 2. Chemotherapy administration
- 3. Documentation of resuscitation preferences

Early advance care planning

Curative or life-prolonging treatment

Advance care planning

Cancer diagnosis

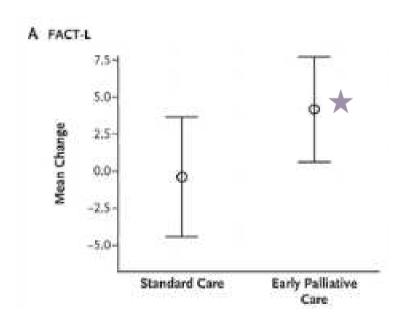
Death

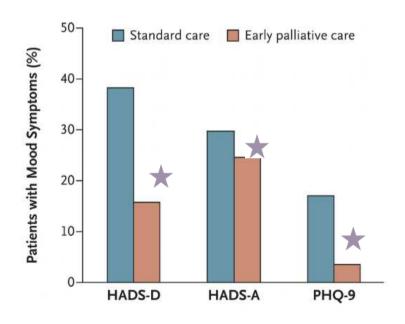
Nature of the Intervention

- Palliative care visits within 3 weeks of enrollment and at least monthly.
- Visits performed by physicians or advanced practice nurses within the Cancer Center (medical oncology or chemotherapy visits).
- Palliative care visits were not scripted or manualized but followed general guidelines for as per the national consensus project.
- If patients were admitted to the hospital, they were also followed by the palliative care team.

Palliative care in addition to usual oncology care allowed lung cancer patients to have *much better quality of life* (FACT) and *less anxiety and depression*.

Temel J, et al. NEJM 2010; Temel J, et al, JCO 2011





Quality of life Better 生活品質改善顯著

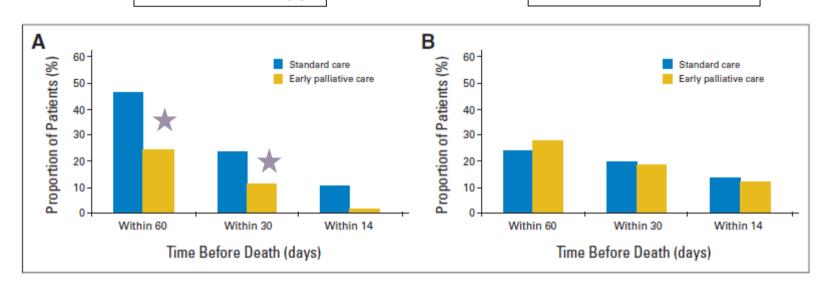
Mood Better, LESS depression 心情較佳 憂鬱較少

Final Chemotherapy at the EOL

臨終前期靜脈化學治療的使用顯著減少

IV Chemotherapy

Oral Chemotherapy

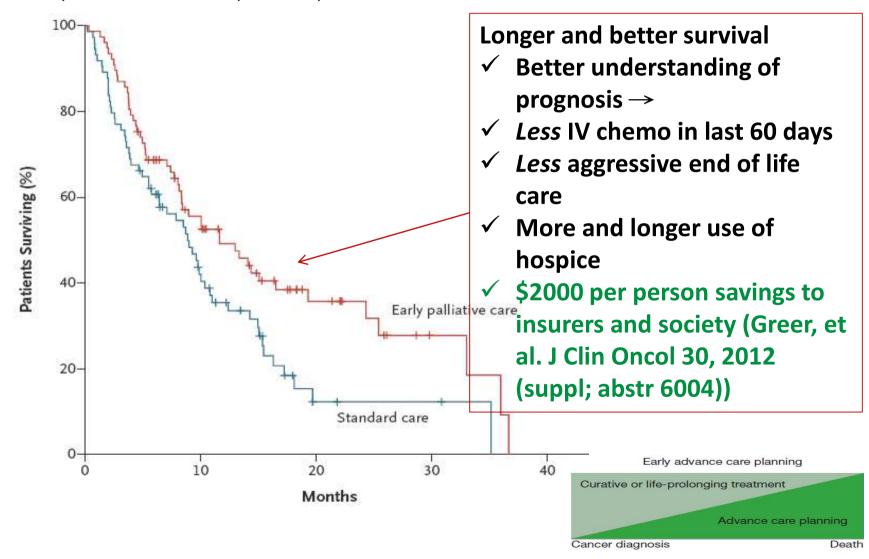


IV chemo within 60 DOD 46% v 24% p=0.01

Greer, JCO 30 (4) 2012

Palliative care in addition to usual oncology care allowed lung cancer patients to live almost 3 months longer than those who got usual oncology care.

Temel J, et al. NEJM 2010; Greer J, et al. JCO 2011



What do these studies tell us?

- Palliative care improves patients' QOL, mood and other aspects of care including prognostic awareness, satisfaction and quality of EOL care.
- Many palliative care delivery models work.
- A more "intensive" palliative care model may be needed to impact EOL care measures.

In summary

- Clinicians should routinely and periodically screen adult caregivers for practical and emotional needs while caring for a patient near the end of life.
- Periodic screening by caregivers for the patient's supportive needs should be a routine part of care for patients with serious chronic illness.

Integrating Palliative Care Into Oncology: A Way Forward

Simutaneous

Palliative care and Acute Oncology Care

急性癌症醫療以及緩和醫療的整合

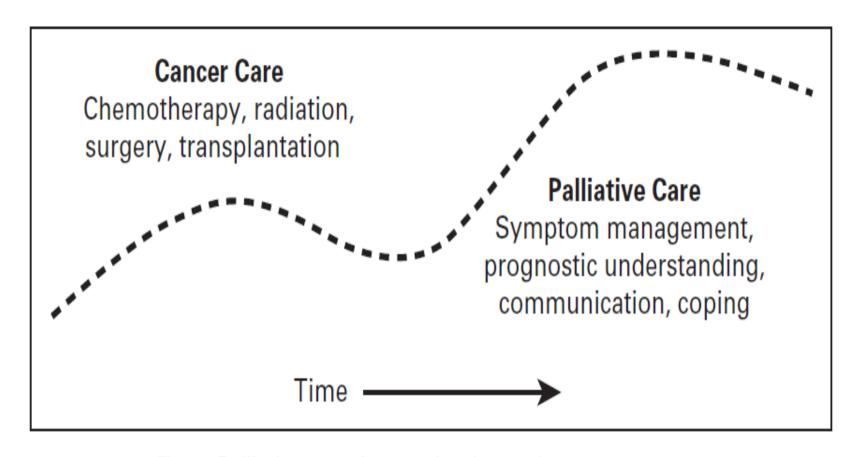


Fig 1. Palliative care integration in modern cancer care.

To cancer treatment

Traditional Palliative Care

Life-prolonging or curative treatment

Palliative care to manage symptoms and improve quality of life

Diagnosis Death

Early Palliative Care

Life-prolonging or curative treatment

Palliative care to manage symptoms and improve quality of life

Diagnosis Death

And to hospice care



Palliative Care Is

- Excellent, evidencebased medical treatment
- ✓ Vigorous care of pain and symptoms throughout illness
- Care that patients want at the same time as efforts to cure or prolong life

Palliative Care Is NOT

- Not "giving up" on a patient
- Not in place of curative or lifeprolonging care
- Not the same as hospice or end-oflife care

Who should deliver Supportive & Palliative Care Interventions?

- Role of Medical Oncologist
- Evidence for specialized PC teams
- Medical Oncology Curriculum includes many palliative topics

Primary Palliative Care by Oncologists:

Bickel KE et al. JOP 2016;12:e828-38

The World Health Organization (WHO)

 palliative care as services designed to prevent and relieve suffering for patients and families facing life-threatening illness, through early management of pain and other physical, psychosocial, and spiritual problems.

Palliative Care – WHO

- Uses a team approach to address the needs of patients and their families, including bereavement counseling, if indicated;
- Will enhance quality of life, and may also positively influence the course of illness;
- is applicable early in the course of illness, in conjunction with other therapies that are intended to prolong life, such as chemotherapy or radiation therapy, and includes those investigations needed to better understand and manage distressing clinical complications.

ASCO Guidelines 2016

- "Palliative care means patient and familycentered care that optimizes quality of life by anticipating, preventing, and treating suffering.
- Palliative care throughout the continuum of illness involves addressing physical, intellectual, emotional, social, and spiritual needs and to facilitate patient autonomy, access to information, and choice."

The American Society for Clinical Oncology (ASCO) recommends

 Considering the combination of palliative care with standard oncology care early in the course of treatment for patients with metastatic cancer and/or a high symptom burden

The National Comprehensive Cancer Network (NCCN)

- All cancer patients should be repeatedly screened for palliative care needs, beginning with their initial diagnosis and thereafter at intervals as clinically indicated
- Palliative care should be initiated by the primary oncology team and then augmented by collaboration with palliative care experts

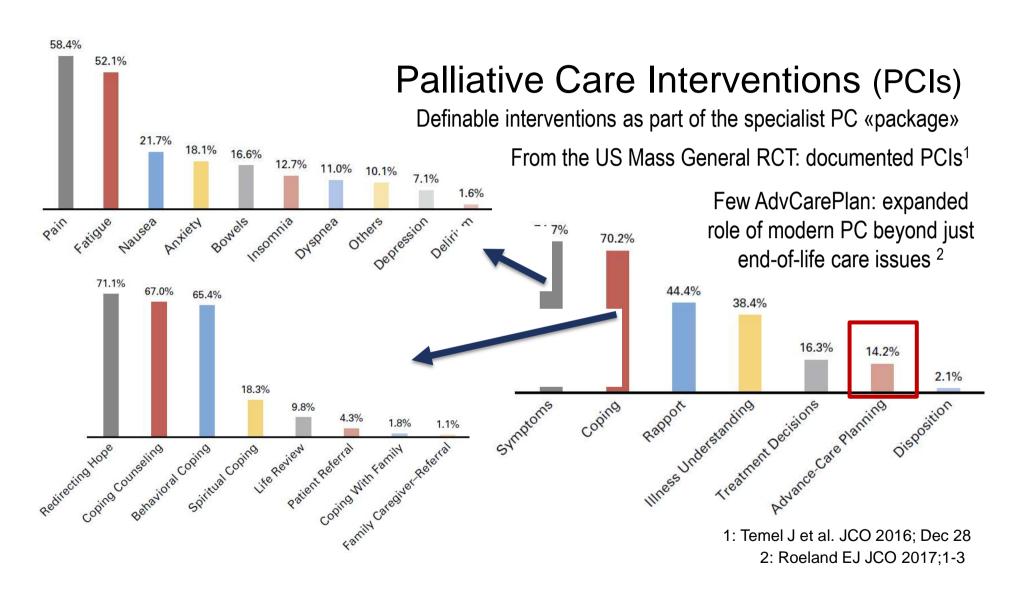
The National Comprehensive Cancer Network (NCCN)

 All health care professionals should receive education and training to develop palliative care knowledge, skills, and attitudes

NCI – Palliative care

- Palliative care is care given to improve the quality of life of patients who have a serious or life-threatening disease, such as cancer.
- Patients may receive palliative care in the hospital, an outpatient clinic, a long-term care facility, or at home under the direction of a physician.

面對癌症患者的生理 病理以及心理層面



癌因性疲憊症: NCCN

與癌症或癌症治療相關而且和

近期活動量不成比例的疲累感,

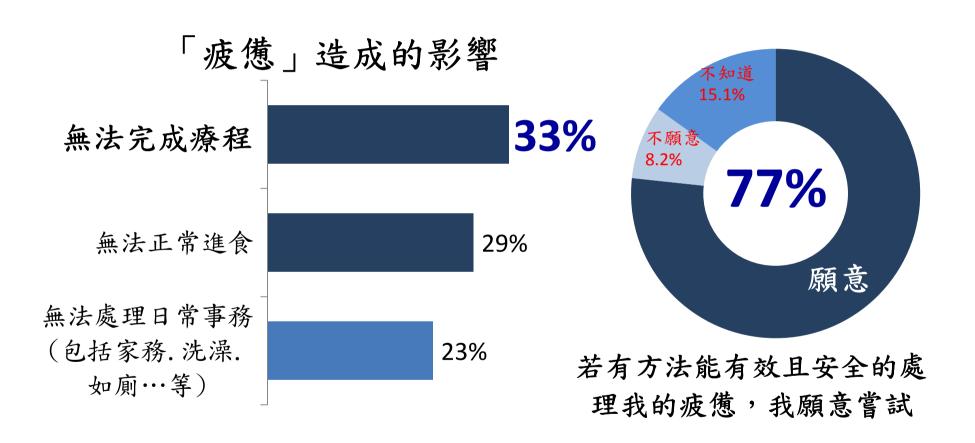
具有持續、令人感到不適、

而主觀的特性,且足以影響正常生活

^{1.} NCCN. NCCN Clinical Practice Guidelines in Oncology: Cancer-Related Fatigue, Version 2.2017; 2017. https://www.nccn.org/professionals/physician_gls/PDF/fatigue.pdf

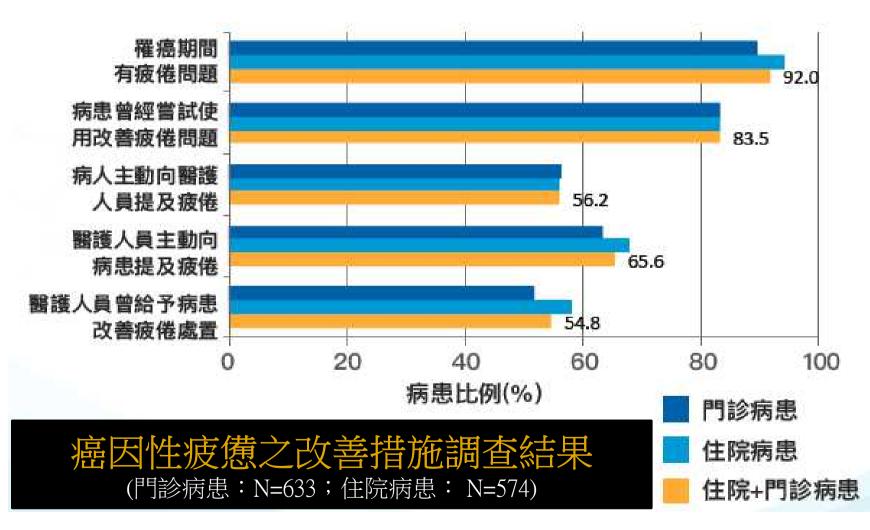
^{2.} Yeh ET et al. BMC Cancer 2011; 11:387.

1/3病人因疲憊中斷癌症治療



Ref. 台灣癌症基金會 https://www.canceraway.org.tw/uploads/FCF_201179932211.pdf. 樣本數:電訪74位癌症病人。

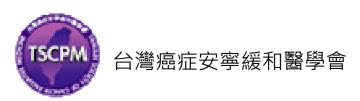
92% 台灣癌症患者罹癌期間有疲憊問題,約一半癌症病患主動向醫護人員提及疲憊



癌因性疲憊症之臨床治療指引

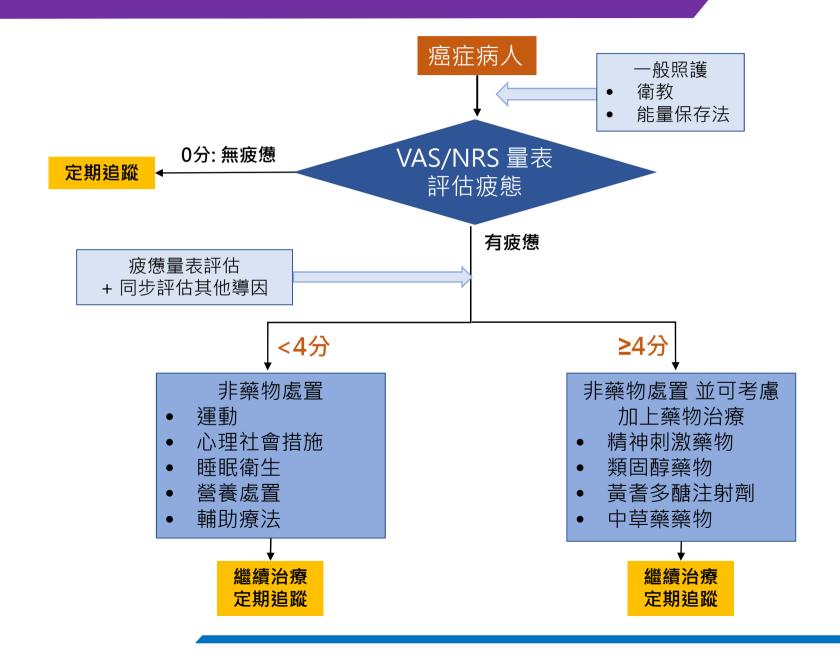
MANAGEMENT OF CANCER-RELATED FATIGUE – A GUIDELINE FOR TAIWAN –

2017年 11月 第一版





癌因性疲憊症的評估與處置流程



癌因性疲憊症的定義: ICD-10

符合 A-D 四大要件



最近一個月至少有**連續兩週期間**,每天或幾乎每天出現**至少六項 A1-A11**的症狀(**A1**為必需)

- A1 感到明顯的疲累、缺少活力、或需要增加休息,且與近期活動程度不成比例
- A2 感到全身虚弱、沉重
- A3 感到很難集中精神或注意力
- A4 感到平常習慣做的事都變得乏味而不想去做
- A5 感到難以入睡、睡得不安穩、早起有困難、或是睡得太多
- A6 感到睡覺起來還是覺得疲累,精神沒有恢復
- A7 感到做什麼事情都必須經過一番掙扎,勉強自己去做
- A8 因為疲累而感到悲傷、失意、或煩躁
- A9 因為疲累不堪而事情做一半就做不下去了
- A10 感到記性變差
- A11只要做了費力的事就會持續感到病懨懨、不舒服

癌因性疲憊症的定義: ICD-10

符合 A-D 四大要件

- B 疲累不堪的感覺會干擾到職場工作、家務處理、或人際互動。
- 病歷、身體檢查、或生化檢查有記錄顯示疲憊症狀為癌症或癌症 治療所引起。
- **应** 疲憊症狀不是由精神共病 (如重度憂鬱症、身體化疾患、心身症、或譫妄) 所引起。

癌因性疲憊症的評估: NRS及VAS量表

數字等級量表 (Numerical Rating Scale, NRS) 及 視覺類比量表 (Visual Analogue Scale, VAS)



臨床驗證顯示 4 分以上的疲憊感即會影響正常生活,NCCN指引建議應特別關注這類病人1

1. NCCN. NCCN Clinical Practice Guidelines in Oncology: Cancer-Related Fatigue, Version 2.2017; 2017. https://www.nccn.org/professionals/physician_gls/PDF/fatigue.pdf

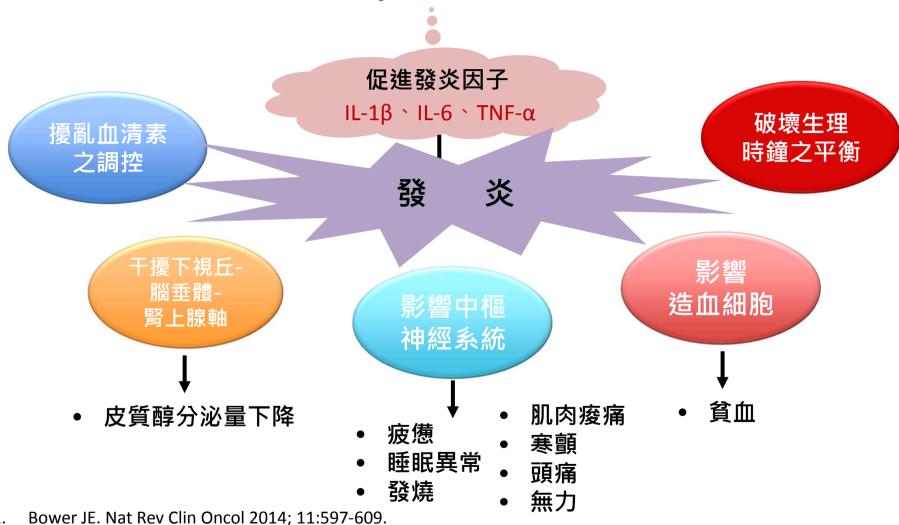
癌因性疲憊症有三種疲憊層面

服部變化所引起 之中樞疲憊症狀 全面性的疲累和無力感 休息或睡覺後也不一定能獲得緩解 疲累程度往往隨放療、化療等抗癌治療後加劇

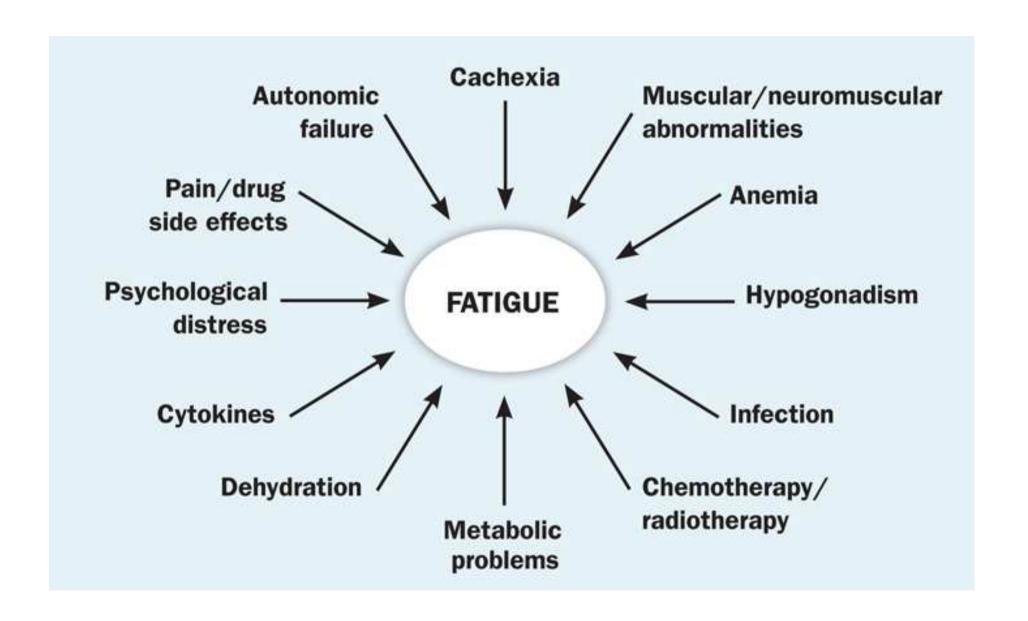
- 疲憊是癌症病人最常見也最令人感到困擾的症狀之一,擾人的程度甚至超 越疼痛、睡眠困難、食慾不振、和憂鬱等症狀¹。
- 癌因性疲憊症包含三種疲憊層面,會造成全面性的疲累²。
- 1. Hsieh RK et al. J Clin Oncol 2015; 33(29_suppl):77.
- 2. Christensen Holz SA & Smith SR. Arch Phys Med Rehabil 2017; 98:1717-8.

癌因性疲憊症之可能機轉~發炎假說

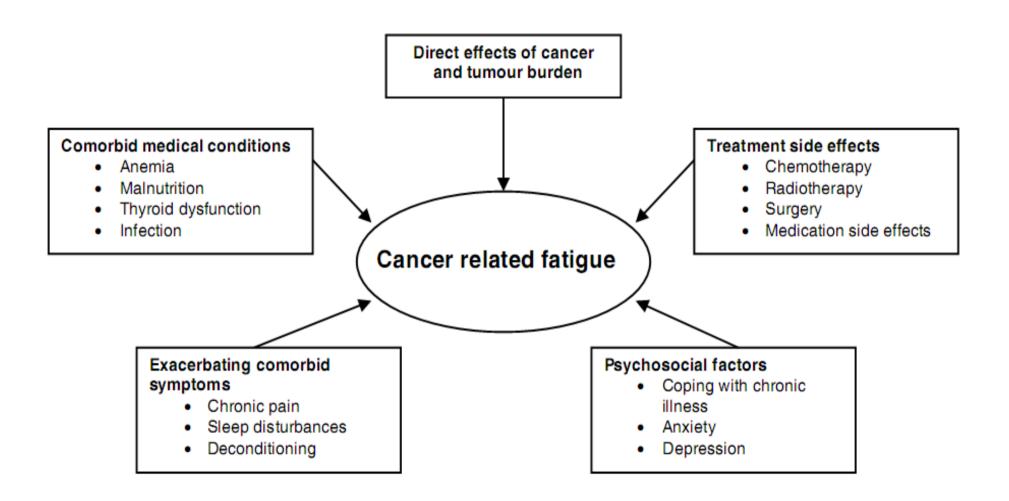
癌症/癌症治療

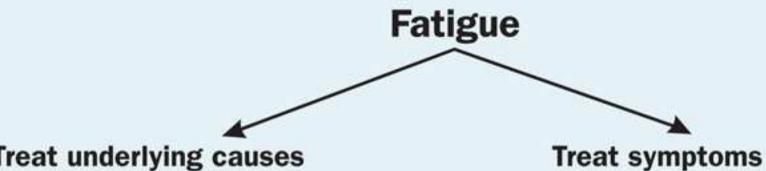


- Bower JE. Nat Rev Clin Oncol 2014; 11:597-609.
- Saligan LN et al. Support Care Cancer 2015; 23:2461-78.
- Wang XS & Woodruff JF. Gynecol Oncol 2015; 136:446-52.



癌因性疲憊





Treat underlying causes

- ·Cachexia
- ·Anemia (transfusion/ erythropolectic therapy)
- ·Depression/anxiety
- **Infection**
- ·Hypoxia
- ·Autonomic dysfunction
- ·Immobility (deconditioning)
- ·Hypogonadism
- ·Other

Pharmacologic means

- ·Corticosteroids
- ·Megestrol
- ·Methylphenidate
- ·Modafanil
- ·Emerging drugs (thalidomide, fish oil)
- ·Ginseng

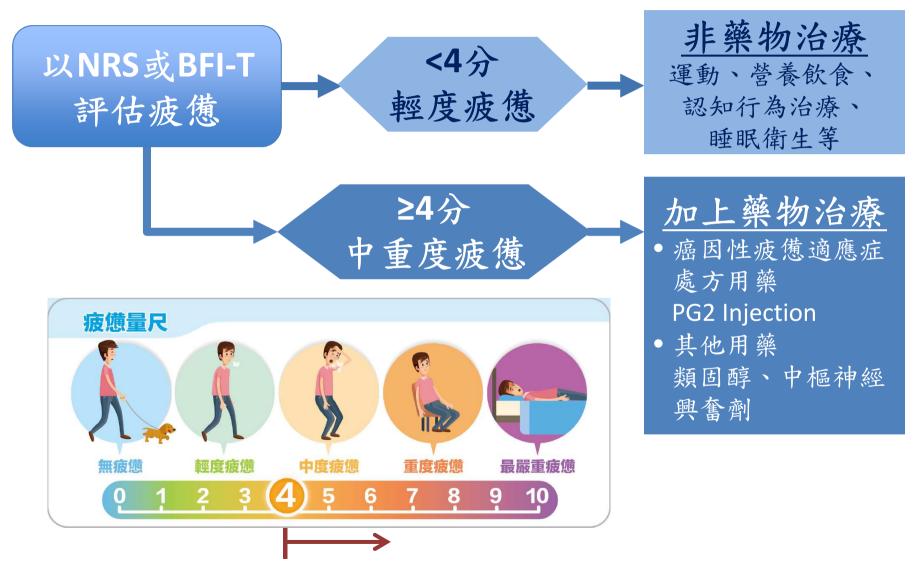
Nonpharmacologic means

- ·Exercise
- ·Cognitive
 - Behavioral therapy
- ·Physical therapy
- ·Occupational therapy

癌因性疲憊症的治療原則

- 癌症病人在診斷後均應接受疲憊相關評估,以期能 及早發現疲憊問題並了解可能的導因,再進行處置 和改善。
- 一般處置建議從非藥物治療開始,但如果無法改善 疲憊或緩和疲憊的惡化,且已處理或排除其他可能 的導因,就應考慮進行藥物治療。

癌因性疲憊評估與治療



癌因性疲憊症之藥物治療

黃耆多醣注射劑有初步臨 床試驗顯示可改善中重度癌 因性疲憊症。 (Level IA, Grade A) 蔘類在臨床試驗顯示可以改善為因性疲憊,但因中藥在使用上會因原料製備等影響,建議使用前應諮詢醫療團隊。(Level IB, Grade B)

Methylphenidate

臨床研究顯示使用於疲憊程 度或病情較嚴重的病人較具 效果;但在用藥前應審慎考 量劑量、用藥時間、濫用風 險、及病人個人疾病等臨床 情形。 於益。

(Level IA, Grade A)

Methylprednisolone、 dexamethasone等類固醇藥物 有臨床證據顯示可以改善癌 症病人的疲憊和生活品質,故 但長期使用有安全風險,故 建議只用於癌症末期、合併 疲憊與厭食症、或有腦部或 骨骼轉移而疼痛的癌症病人 (Level IB, Grade B)

黄耆 (Astragalus membranaceus)



黃耆為豆科植物的根,在中藥中被列為上藥。古代醫家 認為其功能為補氣升陽(增加元氣,提升能量),益衛固 表(提升免疫力),利水消腫,托瘡生肌(肌肉增生),為 諸藥之長(中藥中的長老),故名者。

黄芪(耆)

- 補氣類中藥
- 【來源】
 - -始載於**《神農本草經》**,為豆科多年 生草本植物蒙古黄芪或膜莢黄芪的乾燥根。
 - 《本草綱目》中釋其名曰: "耆,長也。 黃耆色黃,為補藥之長,故名。"
- 【性味歸經】甘,微溫。歸脾、肺經。
- 【功效】補氣升陽,益衛固表,利水消腫,托毒生肌。
- 【主治】

內傷勞倦,脾虚泄瀉,脫肛、子宮脫垂、胃下垂等內臟下垂,婦女崩漏,自汗,盜汗,水腫,及一切氣虛血虧之証。



補氣藥之王:黃耆



黃耆在中藥中被列為上藥,其功能 為補氣升陽(增加元氣,提升能 量),益衛固表(提升免疫力),利 水消腫,托瘡生肌(肌肉增生),為 諸藥之長(中藥中的長老),故名 耆。

在各種類黃耆中,產地在蒙古北部 的蒙古黃耆,又稱為北耆,所含的 黃耆多醣效果最佳。

《關於黃耆‧你所不懂的》



較重

較淡或無 資料提供:長庚紀念醫院中醫內兒科主治醫師王品涵

北耆 膜莢黃耆

豆腥味







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astragalus polysaccharides

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Best matches for astragalus polysaccharides:

<u>Astragalus polysaccharides exerts immunomodulatory effects via TLR4-mediated MyD88-dependent signaling pathway in vitro and in vivo.</u>

Zhou L et al. Sci Rep. (2017)

<u>Astragalus polysaccharide restores autophagic flux and improves cardiomyocyte function in doxorubicin-induced cardiotoxicity.</u>

Cao Y et al. Oncotarget. (2017)

<u>Selenizing astragalus polysaccharide attenuates PCV2 replication promotion caused by oxidative stress through autophagy inhibition via PI3K/AKT activation.</u>

Liu D et al. Int J Biol Macromol. (2018)

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- Anti-tumor potential of astragalus polysaccharides on breast cancer cell line mediated by
- macrophage activation.

Li W, Song K, Wang S, Zhang C, Zhuang M, Wang Y, Liu T.

Mater Sci Eng C Mater Biol Appl. 2019 May;98:685-695. doi: 10.1016/j.msec.2019.01.025. Epub 2019 Jan 8.

DMID: 30913073

PRIMARY RESEARCH

Open Access

Anticancer activity of Astragalus polysaccharide in human non-small cell lung cancer cells

Chao-Yan Wu¹, Yuan Ke², Yi-Fei Zeng², Ying-Wen Zhang¹ and Hai-Jun Yu^{2*}



International Journal of Biological Macromolecules

Volume 106, January 2018, Pages 596-601

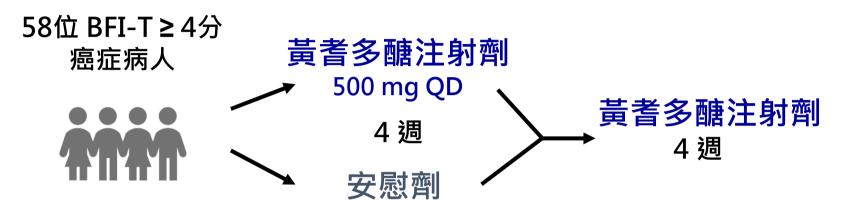


Immunomodulatory effects of herbal formula of astragalus polysaccharide (APS) and polysaccharopeptide (PSP) in mice with lung cancer

Xing Zhou a, Zijing Liu b, Tingting Long a, Lijng Zhou a, Yixi Bao a a

黃耆多醣注射劑樞紐試驗設計

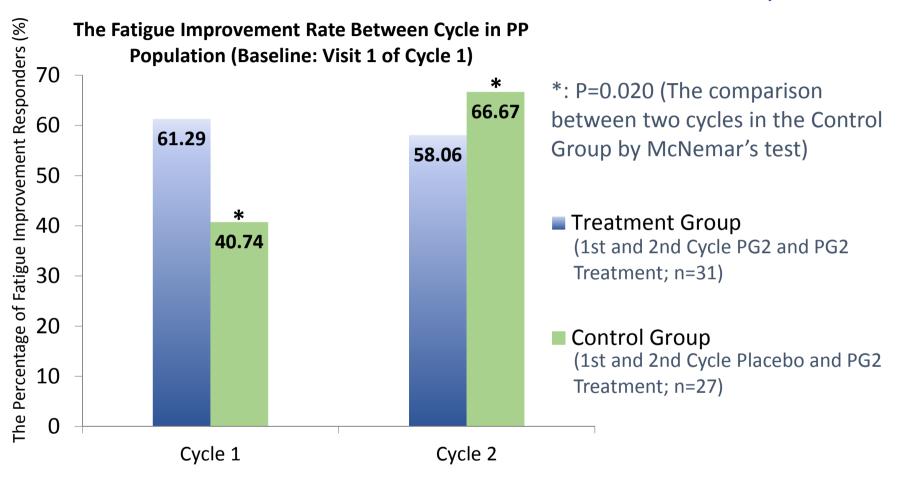
Phase II/III樞紐試驗



- 試驗首週後,疲憊改善的病人比率在黃耆多醣注射劑組較高 (57% vs. 32%, P = 0.043)
- 雙盲階段結束時,有42.9%的黃耆多醣注射劑組達到BFI-T分數降低 20%以上的改善幅度。
- 試驗結束後,82%的黃耆多醣注射劑組受試者之癌因性疲憊症明顯改善善,顯示長達8週的療程對病人有正面效果。

黃耆多醣注射劑可有效改善疲憊

Phase II/III樞紐試驗



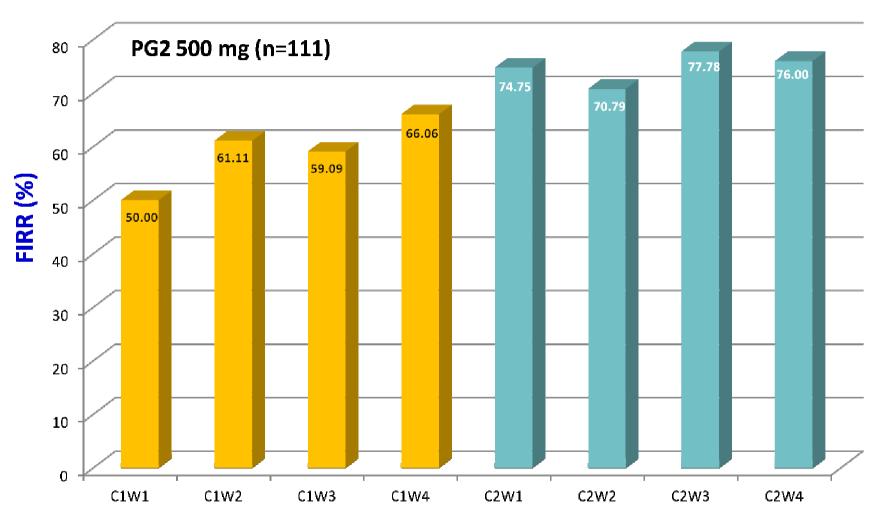
- 改善幅度最大的BFI-T項目為行走能力和情緒
- 黃耆多醣注射劑組的不良反應發生率或嚴重程度未明顯高於安慰劑組
- 主要不良反應為輕微的皮疹、濕疹、或搔癢症,多不須額外處置即恢復

PG2 Phase IV Trial

Center	馬偕,雙和,基隆長庚情人湖院區,三總,彰基, 奇美柳營,中醫大,林口長庚,高雄長庚		
Trial Objective	To evaluate the efficacy and safety of different doses of PG2 for relieving fatigue among advanced cancer patients who are under standard palliative care (SPC).		
Blinding/Randomization	Double-blinded/Randomized		
Treatment Regimens	Two parallel arms: 1. PG2 500 mg by IV infusion for 3 days per week 2. PG2 250 mg by IV infusion for 3 days per week		
Study Period	8 weeks		
Primary Endpoint	Fatigue Improvement Response Rate (FIRR)		
Sample Size	Enrolled Patient No.: 323 Evaluable Patient No.: 214 (1:1 ratio)		

FIRR by Week during the Whole Study Period

Cut-off Point of FIR: 10 %

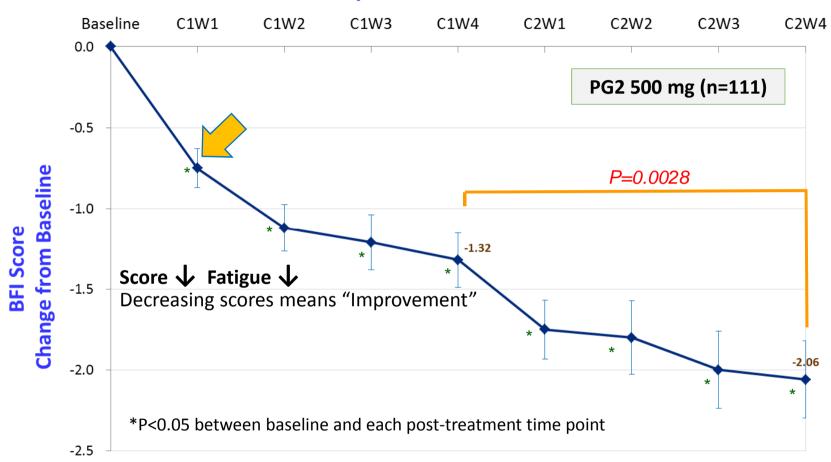


Cycle No. Week No.

2018 ASCO Annual Meeting, Poster Presentation. PhytoHealth In-house Data

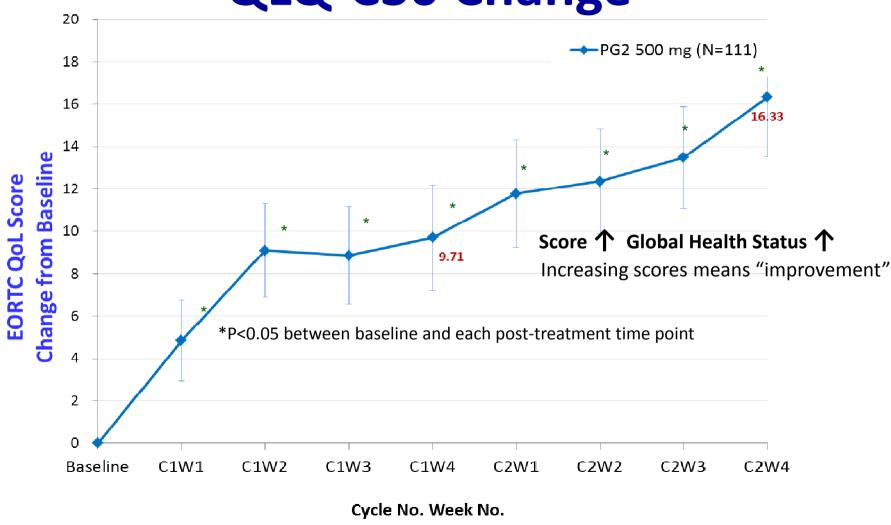
Mean BFI Score Change





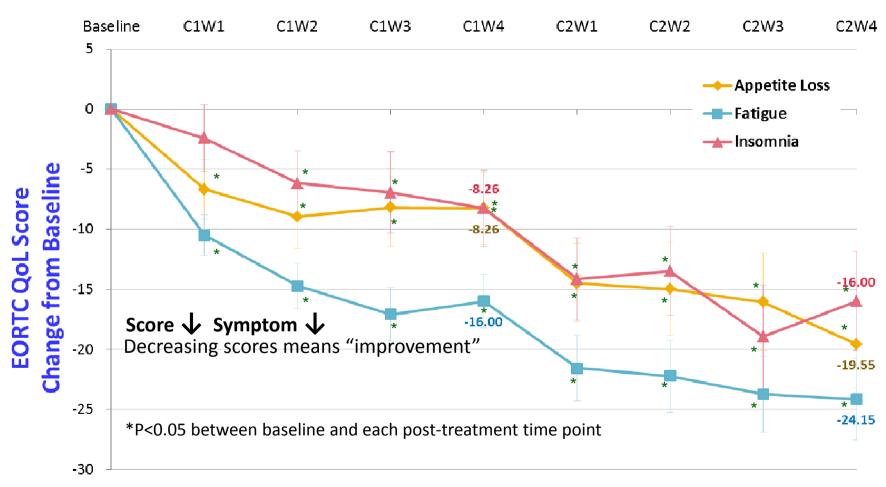
- ✓ PG2 treatment showed efficacy in relieving fatigue as early as the first week
 of treatment.
- ✓ PG2 is more effective at the end of cycle 2 compared to cycle 1.

Global Health Status: EORTC-QLQ-C30 Change



Global Health Status: domains with significant improvement

Cycle No. Week No.







Article

Karnofsky Performance Status as A Predictive Factor for Cancer-Related Fatigue Treatment with Astragalus Polysaccharides (PG2) Injection—A Double Blind, Multi-Center, Randomized Phase IV Study

Cheng-Hsu Wang ¹, Cheng-Yao Lin ², Jen-Shi Chen ^{3,4}, Ching-Liang Ho ⁵, Kun-Ming Rau ^{6,7,8}, Jo-Ting Tsai ^{9,10}, Cheng-Shyong Chang ¹¹, Su-Peng Yeh ¹², Chieh-Fang Cheng ¹³ and Yuen-Liang Lai ^{14,15,*}

Received: 22 October 2018; Accepted: 15 January 2019; Published: 22 January 2019



Cancers 2019, 11, 128; doi:10.3390/cancers11020128

www.mdpi.com/journal/cancers

Cancers (Basel). 2019 Jan 22;11(2).

Multivariate analysis for responders and non-responders to PG2

Table 3. Multivariate analysis for responders and non-responders to Astragalus Polysaccharides (PG2) injection.

All Subjects

- Patients with higher KPS responded better to PG2.
- Identified KPS as a promising predictive factor for the therapeutic efficacy of PG2.

Cut-off Points = 10%			Multivariate Analysis		
Variable/Status	Responder (N = 140)	Non-Responder (N = 74)	Univariate Analysis p-value *	Odds Ratio (95% CI)	<i>p</i> -value **
Baseline KPS score					
30–50 60–90	22 (15.71%) 118 (84.29%)	31 (41.89%) 43 (58.11%)	<0.0001 ^C	0.253 (0.126, 0.504)	<0.0001



Baseline KPS	Responder %		
score			
30-50 (N=53)	22 (42%)		
60-90 (N=161)	118 (<mark>73%</mark>)		

4-6	72 (51.43%)	41 (55.41%)	0.5794 ^C	0.885 (0.475, 1.647)	0.6998
7-10	68 (48.57%)	33 (44.59%)			
Cancer Type: three ca	tegories				
Lung cancer	22 (15.71%)	12 (16.22%)	0.2876 ^C		111111
Breast cancer	22 (15.71%)	6 (8.11%)		1.297 (0.343, 4.905)	0.7020
other	96 (68.57%)	56 (75.68%)		0.957 (0.414, 2.208)	0.9173
Albumin (g/dL)					
<3.0	20 (14.29%)	11 (14.86%)	0.9088 C	1.272 (0.518, 3.124)	0.5997
≥3.0	120 (85.71%)	63 (85.14%)			
Hemoglobin (g/dL)					
<10	48 (34.29%)	30 (40.54%)	0.3659 C	0.767 (0.405, 1.452)	0.4148
≥10	92 (65.71%)	44 (59.46%)			
Peripheral blood TLC	(/µL)				
<700	46 (32.86%)	18 (24.32%)	0.1947 ^C	1.709 (0.846, 3.452)	0.1353
>700	94 (67.14%)	56 (75.68%)		15 15 15	

^{*} The Wilcoxon rank-sum test ^W was used to compare the difference between responders and non-responders for continuous variables; the Chi-squared test ^C was used to compare the difference between responders and non-responders for categorical variables. ** A logistic regression model was used to compare the differences between responders and non-responders.

Summary of PG2® Phase IV Study

Fatigue improvement

- ✓ PG2® treatment showed efficacy in relieving fatigue as early as the first week of treatment.
- ✓ Clinically meaningful fatigue improvement (≥ 10%) was observed in more than 65% of subjects receiving PG2® after the cycle 1 treatment when compared to baseline.
- ✓ Patients with higher KPS showed better chance to respond to PG2 treatment in BFI-T score.

使用蔘類應諮詢醫療團隊的專業建議

使用蔘類的關鍵可能在於1:

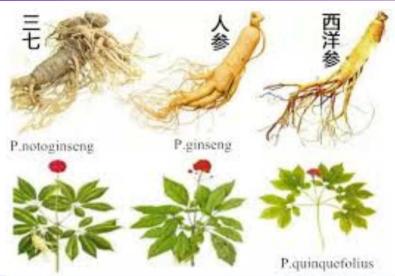
- 試驗使用含有至少3%人蔘皂苷的標準化粉末
- 療程較長
- 蔘類可能會和抗凝血劑warfarin有交互作用²
- 中草藥在使用上會因**原料形式、製備方法、或服用期間而影響療效**
- 使用前應先諮詢醫療團隊的專業建議,並依其指示服用



- 1. Thomas GB et al. J Fam Pract 2014; 63:270-2.
- 2. Yuan CS et al. Ann Intern Med 2004; 141:23-7.



<u>參類的類型、</u>劑量、和療程非常關鍵



蔘類 (分為亞洲蔘和西洋蔘)

傳統功效

- 可補血補氣
- 有補氣救脫、益血復脈、養心安神等 功效

	- Andrews		
試驗簡介	每日平均治療劑量	療程	結果
Yennurajalingam et al., 2017 ¹ (n = 112)	亞洲蔘 (Panax ginseng) 800 mg	4週	疲憊較嚴重 、憂鬱傾向 、 男性病人才明顯優於對照
Kim et al., 2017 ² (n = 438)	紅蔘 (蒸製並乾燥後的亞洲蔘) 2,000 mg	16週	顯著改善疲憊程度
Barton et al., 2010^3 (n = 290)	西洋蔘 (Panax quinquefolius) 750 mg、1,000 mg、2,000 mg	8週	1,000、2,000 mg組疲憊改 善幅度優於其他組別
Barton et al., 2013^4 (n = 364)	西洋蔘 2,000 mg	8週	疲憊改善幅度優於對照組

- 1. Yennurajalingam S et al. J Natl Compr Canc Netw 2017; 15:1111-20.
- 2. Kim YH et al. J Clin Oncol 2017; 35(15_suppl):10008, Abstract 10008
- 3. Barton DL et al. Support Care Cancer 2010; 18:179-87.
- 4. Barton DL et al. J Natl Cancer Inst 2013; 105:1230-8.

Bruera E

• A Double-Blind, Randomized, Placebo-Controlled Trial of *Panax Ginseng* for Cancer-Related Fatigue in Patients With Advanced Cancer.

Yennurajalingam S¹, Tannir NM¹, Williams JL¹, Lu Z¹, Hess KR¹, Frisbee-Hume S¹, House HL¹, Lim ZD¹, Lim KH^{1,1}, Lopez G¹, Reddy A¹, Azhar A¹, Wong A¹, Patel SM¹, Kuban DA¹, Kaseb AO¹, Cohen L¹, Bruera E¹.

- Conclusions:
- Panax Ginseng was
 - not significantly superior to placebo after 4 weeks of treatment.
- There is NO justification to recommend the use of Panax Ginseng for CRF.

癌因性疲憊症規律評估

2018-10-15

癌因性疲憊症日記



2017年台灣癌症安寧緩和醫學會與台灣腫瘤護理學會共同制定並發行『癌因性疲憊症之臨床治療指引』提高對此之關注,並做為臨床醫護人員治療時之使用參考。2018年台灣癌症安寧緩和醫學會發展『疲憊日誌』,提供給癌症病人了解癌因性疲憊症及評估紀錄疲憊分數的工具,希望結合病人及臨床醫護人員的投入,一起共同增進癌症治療照護的品質。

問:什麽是療因性疲憊症?

答:癌因性疲憊症 (Cancer-related fatigue, CRF)是指因癌症或癌症治療所引起的主觀且長時間感到難以遏止的精疲力竭。身、心、靈持續缺乏能量,而造成情緒、認知及體能的負擔,並影響日常生活。癌症病人的疲憊與活動量沒有直接的關係,且無法透過休息獲得緩解。

問:『疲憊日誌』要如何填寫使用?

答:疲憊、缺乏活動力、注意力不集中、失眠或嗜睡、食慾不振、憂鬱、對生活及人與人相處缺乏興趣等,都是 癌因性疲憊症常見的症狀。您可利用手冊中的「疲憊量尺」選出最符合您當下疲憊感受的分數,每天規律的評估,寫下您的疲憊分數和處置方法在『疲憊日誌』中,並即時向醫護人員反應和討論您的疲憊狀況。

問:『疲憊日誌』可以幫助我什麽呢?

答:疲憊時容易產生負面想法,對於疾病治療感到無力,或想放棄治療。藉由『疲憊日誌』評估和紀錄您的疲憊分數,及時主動向醫護人員反應,協助您與醫護人員更有效的溝通,也讓醫護團隊了解您的疲憊,根據您的疲憊狀況,提供最適合的治療方式,讓您的疲憊獲得改善和治療,以避免因疲憊造成療程延遲或中斷,影響治療成效。

🙂 附件下載

- 🔼 6周記錄表-疲憊日誌
- ☑ 完整版-疲憊日誌

癌因性疲憊症規律評估





疲憊量尺



根據臺灣癌因性疲憊症之臨床治療指引建議

疲憊分數 **<4分** 請以非藥物處置治療

運動

口睡眠衛生

□輔助治療

□營養處置

□心理社會措施

• 心理社會措施

□精神刺激藥物

□中草藥藥物

□黃耆多醣注射劑

□類問醇

□其他

- 睡眠衛生
- 營養處置
- 輔助療法

• 輔助療法

疲憊分數 ≥4分

□其他

可考慮加上藥物治療

□其他

♥ 貼心小叮嚀 ♥

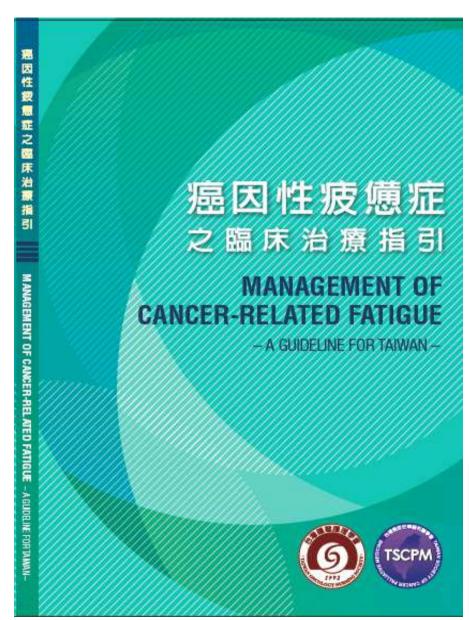
遵照醫護人員的指示,配合治療方式調整生活,按

時複診,如果藥物的幫助不大,或是有副作用,請

告訴醫護人員。請記住,您的疲憊是可以緩解的!

- 精神刺激藥物
- 類固醇藥物
- 黄耆多醣注射劑
- 中草藥藥物(蔘類)

中草藥藥物(養類





癌因性疲憊症之臨 床治療指引電子版 連結由此去





"Cure sometimes, treat often, comfort always"

Hippocrates