

Overdiagnosis and Overtreatment

報告者:洪淑真護理師

單位:兒童加護病房

日期: 20190116



2019/1/18

1

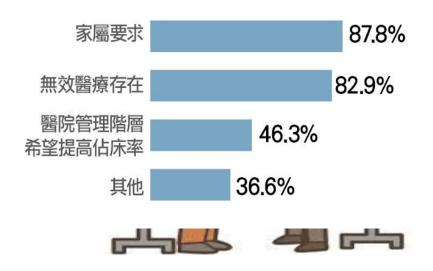
源起

目前醫療立仆「至小做一點」的,多坐具甚

於「¾ 多做]

近九成醫師認為[,]「家屬要求」 造成台灣醫療被過度使用

台灣醫療有某種程度上過度使用,你認為造成 這種現象的原因是?



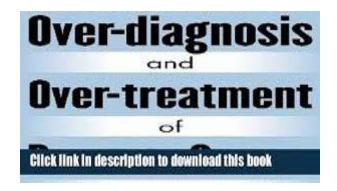
大綱

Overdiagnosis and overtreatment?

Choosing Wisely的緣起

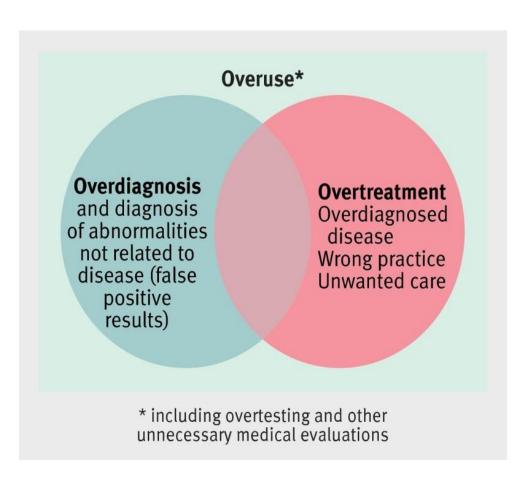
Take home message

Overdiagnosis and overtreatment



2019/1/18

Overdiagnosis and overtreatment



Overdiagnosis...(What it is)

- 定義:
- •提早診斷出不會造成<u>傷害</u>的問題或因<u>過度</u> 展延的疾病定義而形成診斷。
- not a false positive
- two major causes overdetection and overdefinition of disease.

Brodersen J, Schwartz LM, Heneghan C, et al. BMJ Evidence-Based Medicine 2018;23:1–3. Carter, et al., Public Health Research & Practice 2017; . 27(3):e2731722

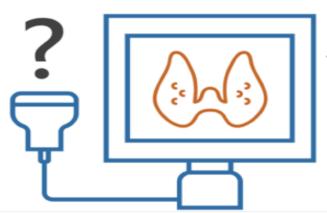
BMJ 2015;351:h4534 doi: 10.1136/bmj.h4534 (Published 25 August 2015) 2019/1/18

Overdetection

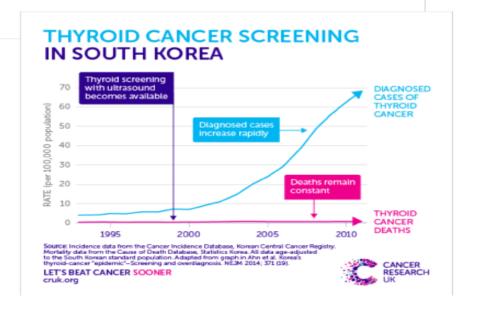
- Overdetection
 - identification of abnormalities that were never going to cause harm
 - ➤Increasing use of high-resolution diagnostic technologies



Overdiagnosis的常見醫療問題



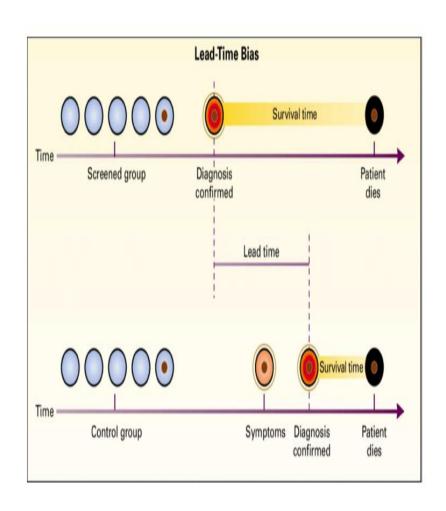
甲狀腺超音波 篩檢甲狀腺癌 有需要嗎?

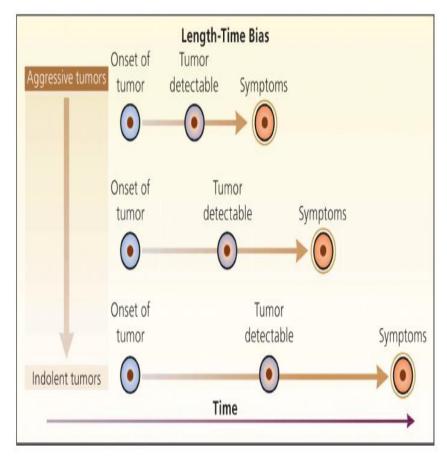


Overtreatment的常見副作用

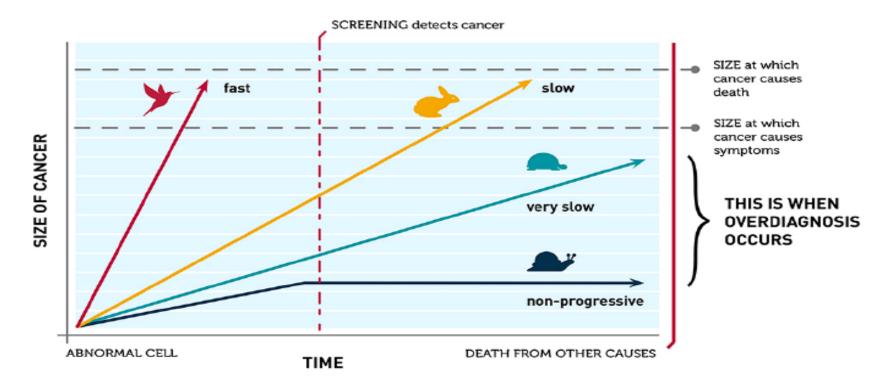


Lead time bias vs. Length bias





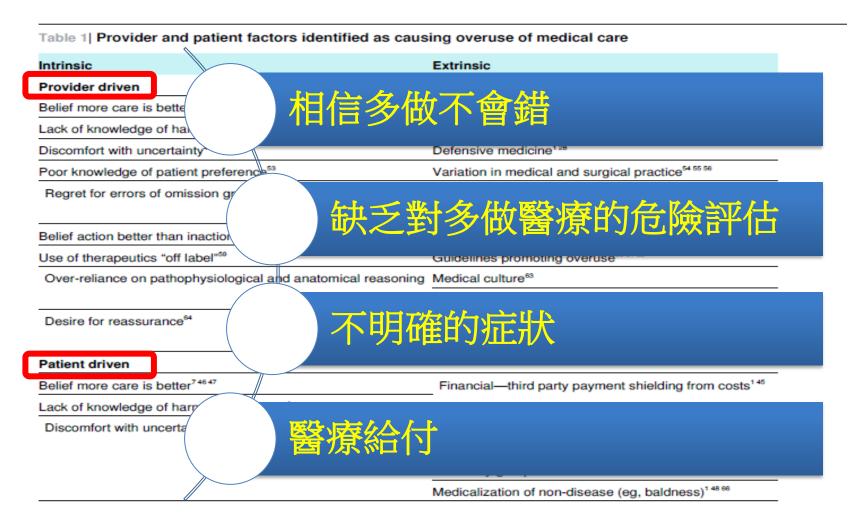
Overdiagnosis (non-progressive or slow-growing)



Adapted from a figure courtesy of H. Gilbert Welch, Dartmouth Medical School

prevention.cancer.gov

Causes overuse of medical care



New definition and Prevalence

Table 1. Changes in Disease Definitions and Prevalence of a Condition

Condition	Population	Previous Definition	Old Definition Prevalence, %	New Definition	New Definition Prevalence, %
Osteoporosis	Community sample of US women aged >65 years ⁷	Femoral neck BMD T-score of –2.5 or less	21	NOF 2008 guideline	72
Myocardial infarction	Patients presenting to hospital with a troponin level measure ≥30 ng/L ⁸	WHO criteria using MB fraction of creatine kinase	18	ESC/ACC 2000 criteria using troponin	29
Polycystic ovary syndrome	Sample of women aged 12-44 years in China ⁹	NIH criteria	7	Rotterdam criteria	11
Prediabetes	Survey of adults aged >18 years in China ¹⁰	Impaired fasting glucose	26	ADA 2010 criteria	50
	NHANES survey of adults ≥18 years in the United States 11	Impaired fasting glucose	26	ADA 2010 criteria	31

Guidance for Modifying the Definition of Diseases A Checklist

Jenny Doust, MBBS, PhD; Per O. Vandvik, PhD; Amir Qaseem, MD, PhD; Reem A. Mustafa, MD, PhD; Andrea R. Horvath, MD, PhD; Allen Frances, MD; Lubna Al-Ansary, MBBS, MSc; Patrick Bossuyt, PhD; Robyn L. Ward, MBBS, PhD; Ina Kopp, MD; Laragh Gollogly, MD, MPH; Holger Schunemann, MD, PhD; Paul Glasziou, MBBS, PhD; for the Guidelines International Network (G-I-N) Preventing Overdiagnosis Working Group

Table 2. Checklist of Items to Consider When Modifying a Disease Definition				
Checklist Item 1. Definition: What are the difference new definition?	ition			
Number of people affected: How will the new disease definition change the incidence and prevalence of the disease.	The number of people affected is important in understanding benefits, harms, and resources needed.			
3. Trigger: What is the trigger for considering disease definition?	mber of people affected			
4. Prognostic ability: How well does the new o	cunically meaningful outcomes.			
5. Disease definition precision and accuracy: What is the repeatability, reproducibility, and accuracy (when estimation new disease definition?	Disease definitions that are repeatable and reproducible improve the consistency of			
6. Benefit: What is the incremental benefit fo the new definition vs the previous definition?	ggers be used to determine treatment thresholds.			
	be used to determine treatment diresholds.			
7. Harm: What is the incremental harm for classified by the new definition vs the previous definition	Harms may also be outlined using methods such as GRADE. It is often more difficult			
8. Net benefit and harms: What is the classified by the new definition vs the	ostic ability			



Choosing Wisely



An initiative of the ABIM Foundation



2019/1/18

Choosing Wisely的緣起

明智選擇運動(Choosing wisely campaign)



2012年由美國內科醫學會(American Board of Internal Medicine, ABIM)



鼓勵醫病共同討論沒有必要執行的醫療行為

Choosing Wisely

Choosing Wisely is a campaign to help clinicians and patients engage in conversations about unnecessary tests and treatments and make smart and effective choices to ensure high-quality care.



2019/1/18 20181110 黃采薇副教授上課講義

Choosing Wisely



An initiative of the ABIM Foundation

5 QUESTIONS to Ask Your Doctor Before You Get Any Test, Treatment, or Procedure

- Do I really need this test or procedure? Medical tests help you and your doctor or other health provider decide how to treat a problem. And medical procedures help to actually treat it.
- What are the risks? Will there be side effects? What are the chances of getting results that aren't accurate? Could that lead to more testing or another procedure?
- Are there simpler, safer options? Sometimes all you need to do is make lirestyle changes, such as eating nealthier food or exercising more.
- What happens if I don't do anything? Ask if your condition might get worse
 or better if you don't have the test or procedure right away.
- How much does it cost? Ask if there are less-expensive tests, treatments or procedures, what your insurance may cover, and about generic drugs instead of brand-name drugs.

國內的choosing wisely campaign

- 1→ 疑似病毒引起的上呼吸道感染,不建議使用抗生素治療。
 - 2→ 不建議健康的年輕病人在手術前進行常規性胸部X光檢。
 - 未經危險因子評估的停經後婦女,不建議常規進行骨密度檢測,來評估骨質疏鬆性骨折的風險。
 - 不要以苯二氮平類 (benzodiazepines) 藥物治療有失眠、 4→ 焦慮或譫妄的老年病人。
- 5→ 若直系家庭成員沒有前列腺癌的病史,不需要常規執行攝護腺 特異抗原(PSA)篩檢。

圖 1 國內前五項不建議執行醫療服務項目↓

從不同角度

看過度醫療(overuse)

行為

無效醫療(Ineffective care)

從醫療觀點來看

口服抗生素治療一般感冒

術前常規shaving

無症狀的常規心電圖檢查

無效醫療(Ineffective care)

從醫療觀點來看

病人在加護病房只是短暫延後生命

醫療照顧耗費大量人力,對病人效益不大

無益醫療(Inefficient care)

醫療有效,但執行強度或頻率不恰當

重覆抽血診斷或檢驗

使用重症醫療照顧輕微疾病

常規使用後線抗生素

不想要醫療(Unwanted care)

醫療建議適當,但病人不想要

病人想要緩和治療,醫師建議進一步治療

高齡病人接受前列腺癌篩檢

自費使用高價藥物或疫苗

Low-value care/overuse

無效醫療 (Ineffective care)

政府機關

不給付、 限制(Limit)

無益醫療 (Inefficient care)

醫療機構

減少重覆 或複合處方 (Lean)

不想要醫療 (Unwanted care)

2019/1/18

病人

醫病共享 決策(Listen)

International Journal for Quality in Health Care, 2018, 30(9), 736–739 doi: 10.1093/intqhc/mzy100



Take home message



2019/1/18

如何判斷

Over-diagnosis or Over-treatment

該疾病的盛行率

提早診斷疾病後,治療的好處與壞處

該疾病的嚴重程度

該項篩檢(screening)特異性、精準度如何?

確診後,是否有能力去處理疾病問題?

Take home message



抗生素overuse問題

routine造成的overuse

擴大疾病定義,造成overdiagnosis

Take home message

Overdiagnosis造成過度恐慌及副作用

文化上差異,造成overuse medical care

推動精準醫療與SDM的重要

報告結束 謝謝聆聽

