

An initiative of the ABIM Foundation

Overdiagnosis and Overtreatment





源起









Overdiagnosis and overtreatment



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* including overtesting and other unnecessary medical evaluations

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

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> <u>展延</u>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



- 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





THYROID CANCER SCREENING IN SOUTH KOREA



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

JAMA Internal Medicine | Special Communication

Guidance for Modifying the Definition of Diseases A Checklist

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Table 2. Checklist of Items to Consider When Modifying a Disease Definition





Choosing Wisely



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明智選擇運動(Choosing wisely campaign)



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 <u>clinicians</u> and patients engage in conversations about <u>unnecessary tests and treatments</u> and <u>make</u> <u>smart and effective choices</u> to ensure highquality care.



Choosing Wisely



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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.
- 2 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?
- **3** Are there simpler, safer options? Sometimes all you need to do is make lirestyle changes, such as eating healthier food or exercising more.
- 4 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.
- 5 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



從不同角度 看過度醫療(overuse)









術前常規shaving

無症狀的常規心電圖檢查







醫療照顧耗費大量人力,對病人效益不大







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





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





Take home message



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



routine造成的overuse

擴大疾病定義,造成overdiagnosis



Sorry, but no amount o antibiotic will get rid of you cold.



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



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