Professor Jennifer Beecham International ESCAP Conference, Madrid June 2015









Where we're going

A. Some introductory remarks to define the territory





(Health) economics: the discipline ... can be applied to the topic of child mental health

Whole system(s) evaluation

Market analysis

Supply and demand for health care

What is health? What is the value of health? What influences health?

Studies of planning, budgeting and monitoring mechanisms

Micro-economics & evaluation



Micro-economics & evaluation

High demand – low supply

Evaluation modes – and where we going

- B. Cost of illness studies
- C. Costs in adulthood and cost savings in the future
- D. Cost-effectiveness studies
- E. Finale





For Europe - scant evidence

The cost of brain disorders

- ■5.93 million c&a 0-17 years with ...
- ■ASD, CD, ADHD
- ■€21.3billion (PPP; 2010) for health care, non-medical care and informal care

- Only 3 disorders?
- 11 studies for epidemiology; 4 for costs

B Cost of illness studies: ADHD



Cost of illness: the case of ADHD (US\$PPP, 2021)

2*US lit reviews: \$4,600 - \$18,470

2*UK surveys: \$5,300 - \$6,665

Belgium parent survey: \$1,980

NL clinical sample :\$4,900

Cost varies by study design, age, severity etc. and most importantly scope

Scope – costs in these studies cover different combinations of mental health care, social care, education, justice system, parental out-of-pocket expenses, lost productivity



Cost of health care: the case of ADHD (US\$PPP, 2021)

2*UK surveys: \$2,170 - \$460

2*US lit reviews: \$600 - \$3,410

Belgium parent survey: \$1,130

NL clinical sample :\$1,010

Cost varies by study design, age, severity etc. ... and scope?

Scope – what does each country/region/area provide within health and mental health care? What information was recorded?

[Health care as % of total? Education and CJS?]



Future costs and cost savings studies: CD

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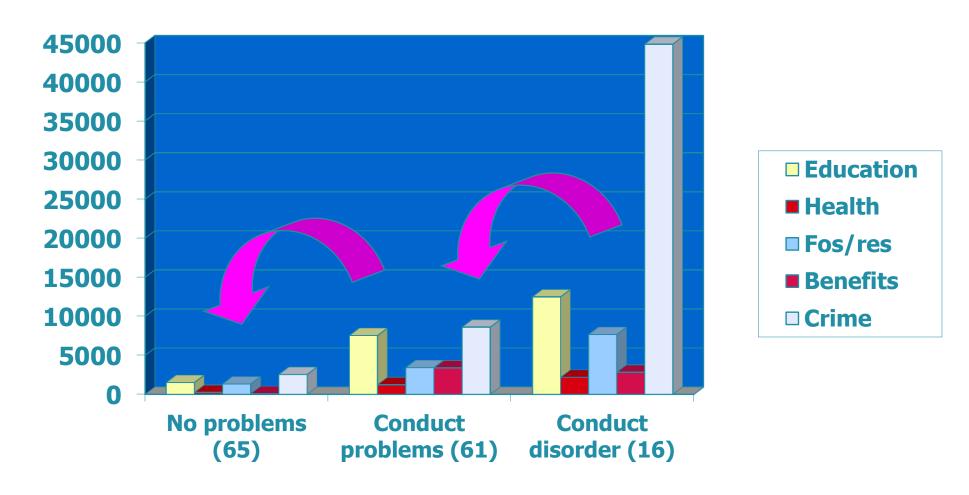
Outcomes in adulthood (UK)

Analysis of UK cohort surveys suggests:

- C&A CD: less likely to be economically active age 30 than no-CD peers, but if working, earned more. (Poorer outcomes at 35-56 also.)
- C&A ADHD: at age 30, poorer employment and if working were in less-skilled, lower-paid jobs that no-ADHD peers
- Externalising behaviour: at age 30, more symptoms of depression, anxiety, alcohol abuse and experienced adversity than no-EB peers.



Future costs: the case of CD in the UK Average extra costs from 10 to 28yrs



Scott et al 200, BMJ

Persistent CD: cost saving model

Advantages of decision models

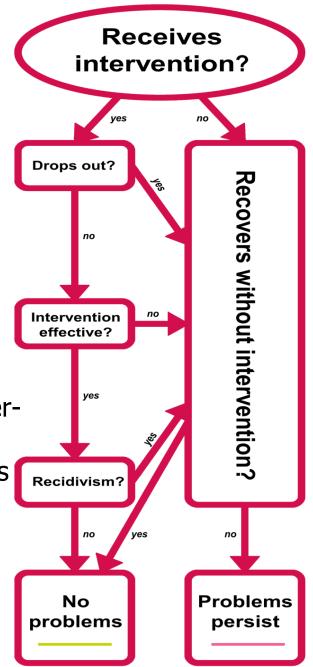
 Estimates impact of an intervention when insufficient evidence on costs and outcomes exists.

Disadvantage of decision models

- Insufficient evidence to build the model!
- Many do not make clear the assumptions used

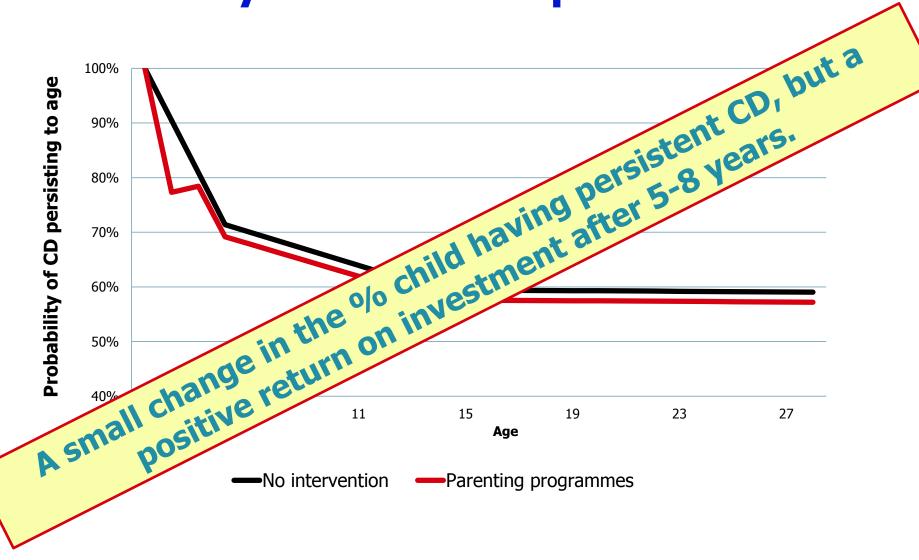
A number of uncertainties including links between:

- C&a disorder and longer-term outcomes
- Improvement in c&a disorder and improvement in longerterm outcomes
- Services/support used (costs) and longer-term outcomes
- Limited transferability between countries
- And of course, rarity of evidence on the costs of the problem we are trying to prevent





Probability of child with persistent CD



Parenting programmes for child age 5 with persistent CD (2008-09 prices)

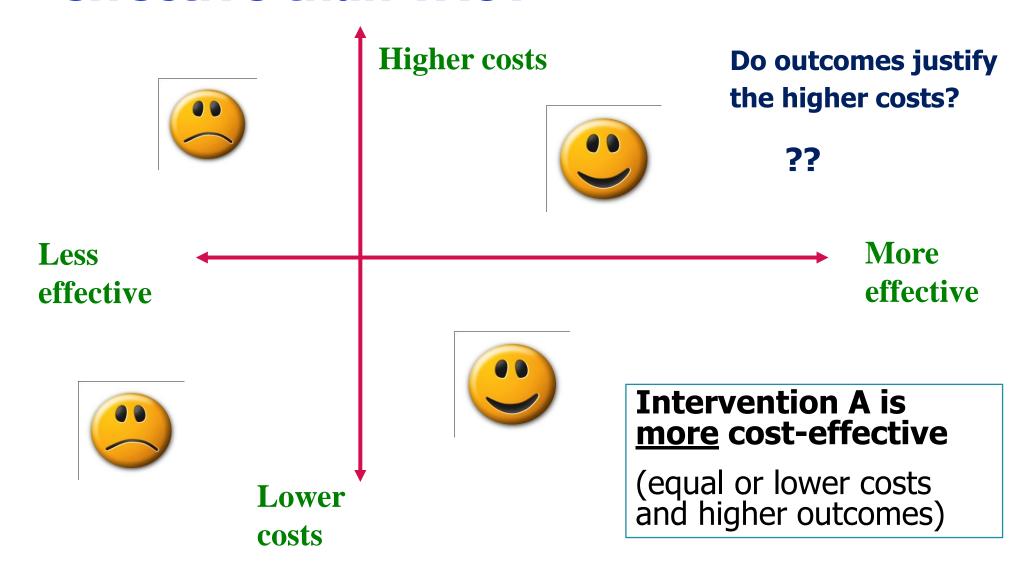
Budget	Av £ p.a. per person with Poch c5-9 Age 5-10 Age 11-16 Age 11-16 Age 11-16 Years £1,1113 £10 childi breaks even £2,195 £157 £63 £109 £800-£33 what about £63 £109 £23 £23 £2842 £5,837			
	Age 5-10	Age 11-16	Areaks ever	years
NHS	£1,1113	£10 childi	oll-out	£2,195
Social Care	£157	o per about	£63	£109
Education	£800-£33	what 202	£0	£690
Voluntarion	£10 BUT	£23	£23	
interv				£2842
al				£5,837



Costeffectiveness analyses: depression



Is "Intervention A" more cost effective than TAU?



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Cost-effective? Treating depression

(studies similar in study year, c&a age, SSRI)

UK:SSRI v SSRI+CBT

At 28 weeks...

- No sig diff outcomes
- No sig diff costs
- Only a 30% probability that SSRI+CBT more cost-effective than SSRI alone

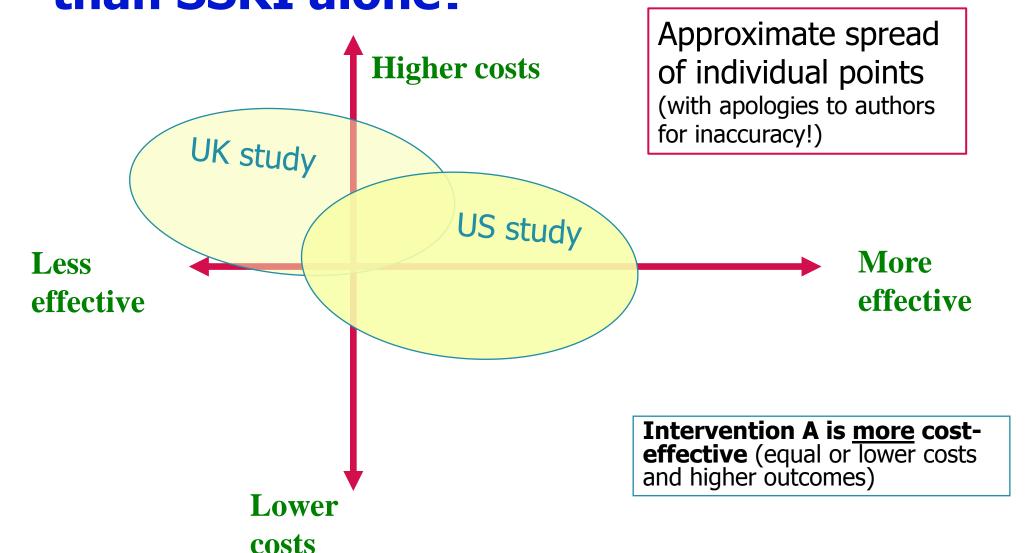
US: SSRI v CBT v CBT+SSRI

At 12 weeks...

SSRI alone more costeffective

At 36 weeks...

■ >90% probability that SSRI+CBT (90%) costeffective than SSRI alone Is SSRI+CBT more cost effective than SSRI alone?





Treatment for depression

Good news

- Two studies studying the cost-effectiveness of similar treatment options...
- although in different countries with different heath care organisation and financing systems.

Bad news

- Conflicting results
- Need more studies of these interventions ...
- And then what about other treatments?



Finale

Quantity, quality & the future



State of the art: quantity 2005-2012

- On average c7 English language 'economic' papers published per year (excl medication only).
- across all ages, diagnoses, severity, interventions, countries, etc.
- 4/7 US: One CEA. And 10 per year since 2009 An improving picture?
- Link research to practice? Not enough evidence

State of the art: quality 2005-2012

- Quality generally improving compared to earlier reviews
- Methods commonly clearly stated and appropriate to topic and evaluation mode
- Economic evaluation modes appropriate to topic some tweaking? Perspective; family; unit costs.
- We still don't know enough about what support or treatment to provide; when, where or to whom



The future: from research to clinical expertise

How can economic studies help clinicians

- Costs; for services, for c&a 'packages'
- CEA evidence on interventions helps inform commissioners
- Cost variations analyses help inform providers

How can clinicians help economic studies

- Be open to an economic evaluation
- Be prepared to share cost/finance data as well as outcomes
- Involve an economist early in planning your study