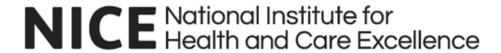
Evidence based guideline development

Nichole Taske, Associate Director for Methods and Economics

Victoria Thomas, Head of Public Involvement



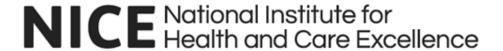
Why have guidelines?



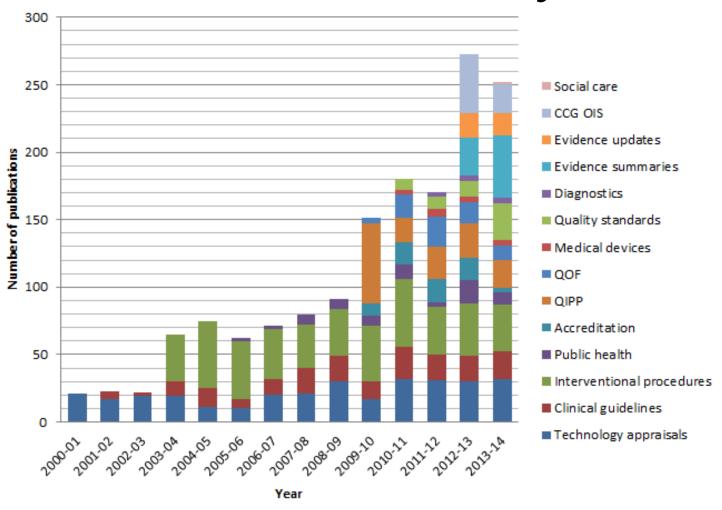
- Inappropriate variations in practice
- Persisting use of ineffective treatments and interventions
- Need for clinical and cost effectiveness.
- The "post code lottery"
- Impossible for health and social care practitioners to read and appraise all new evidence themselves.

The NICE Guidelines Programme

- NICE established in 1999 to reduce variation in the availability and quality of treatments and care ('postcode lottery')
- Is now the worlds largest publicly-funded national guidelines programme
- 239 guidelines published since 2002 (178 new topics; 61 updates)
- Involving >1000 people (most on a voluntary basis)
- Includes areas of public health, social care and service delivery



NICE Guidance by Year



NICE guidelines

- Range of topics, from preventing/managing conditions to service planning, public health and social care
- Incorporates other NICE guidance (ie technology appraisals) where relevant
- Recommendations are advisory only but can be used to develop quality standards to assess practice and inform commissioning





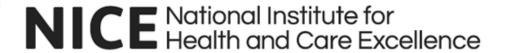
Guidelines do:

- Describe the care of individuals by health and care professionals
- Take account of patients' and service user perspectives
- They are based on the best available evidence of clinical and cost effectiveness



Guidelines do not:

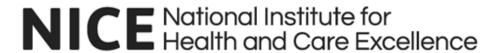
- Replace professional judgement
- Take the place of a 'wish list'
- Provide a textbook cannot cover everything



Core principles for developing all NICE guidance



- Independent advisory committees free from Cols
- Comprehensive evidence base
- Expert input
- Public involvement
- Genuine consultation
- Regular review
- Open and transparent process
- Social values and equity considerations



Guideline Committees



Multi-disciplinary;

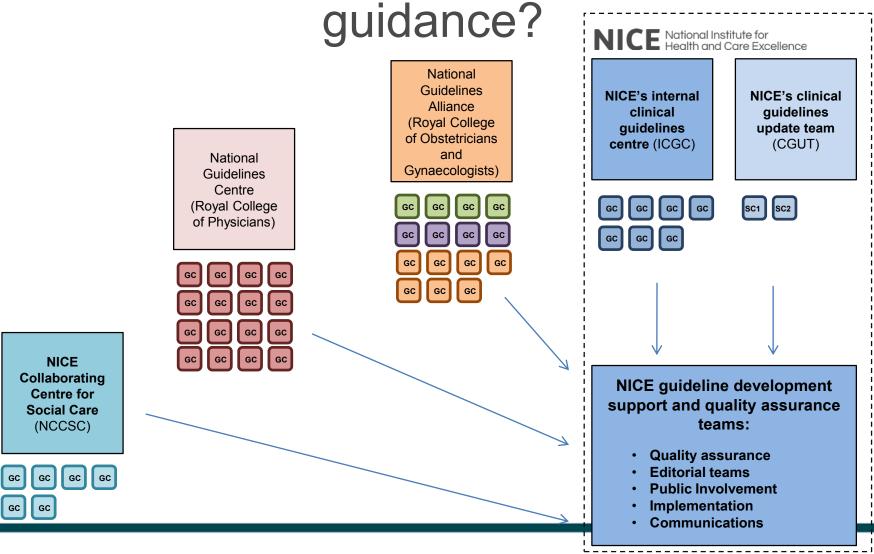
- Health & Social Care professionals
- Service managers;
- Methodologists;
- Economists;
- Patients, carers, service users;

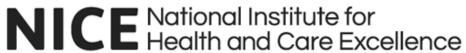
Voluntary;

Free from Cols



Who is involved in developing NICE





COUNTERTHINK



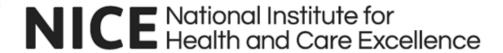
Why is it important to us?

- Need to ensure that there isn't undue influence on the recommendations.
- Need to have a clear, transparent and robust process which is understood by the wider world
- Perceived conflicts of interest can undermine the integrity and consequently, impact of the individual guideline and potentially NICE's wider work programme



How do we manage Dols?

- The <u>NICE policy</u> on Conflicts of Interest;
- Applies to:
 - All NICE Employees, Contractors;
 - All Committee Chairs, Members;
- Interests can be:
 - Specific or non-specific
 - Financial or non-financial
 - Personal or non-personal
- Not all Dols are Cols



Guideline Development-stages

Scope

- Referral, remit & scoping
- Frame key questions
- GDG recruitment

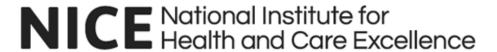
Development

 Question development & prioritisation

- Evidence review
- Evidence consideration
- Recommendation development
- Agreement of 'Prioritised Recommendations'
- Quality assurance
- Finalisation
- Publication

Recommendations & consultation

Post consultation

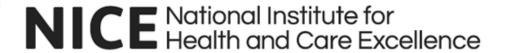


Framing a question

Effectiveness of an intervention

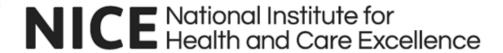
Example – Parent skills training for the treatment and management of emotional and behavioural disorders in children

P	Children (aged 0-12) with emotional or behavioural disorders
1	Parent skills training programme
C	No treatment
0	Internalising behaviours (anxiety, depression) Externalising behaviours (non-compliance, aggression) Functioning of child in school (cognitive development) Family functioning (parent-child interaction)



Searching for evidence

- Search methods should balance precision and sensitivity
- •The aim is to identify the **best available** evidence to without producing an unmanageable volume of results.
- The GC are asked to review and advise on search strategies
- GC may also know of other studies or research ('in progress' or 'unpublished')
- •Calls for evidence can also be made where information is believed to exist but has not been found using standard searches



Assessing the evidence

GRADE (<u>Grading of Recommendations</u>, <u>Assessment</u>, <u>Development and Evaluation</u>)¹

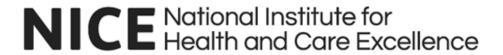
- Assessment of the quality of the evidence by outcome
- •Separates out judgements about the quality of the evidence from judgements about the strength of the recommendation

NICE use **elements** of GRADE



- –No 'summary grades' for overall quality of the evidence or strength of a recommendation
- -Integrates a review of the quality of cost-effectiveness studies

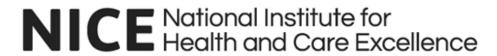
¹http://www.gradeworkinggroup.org/

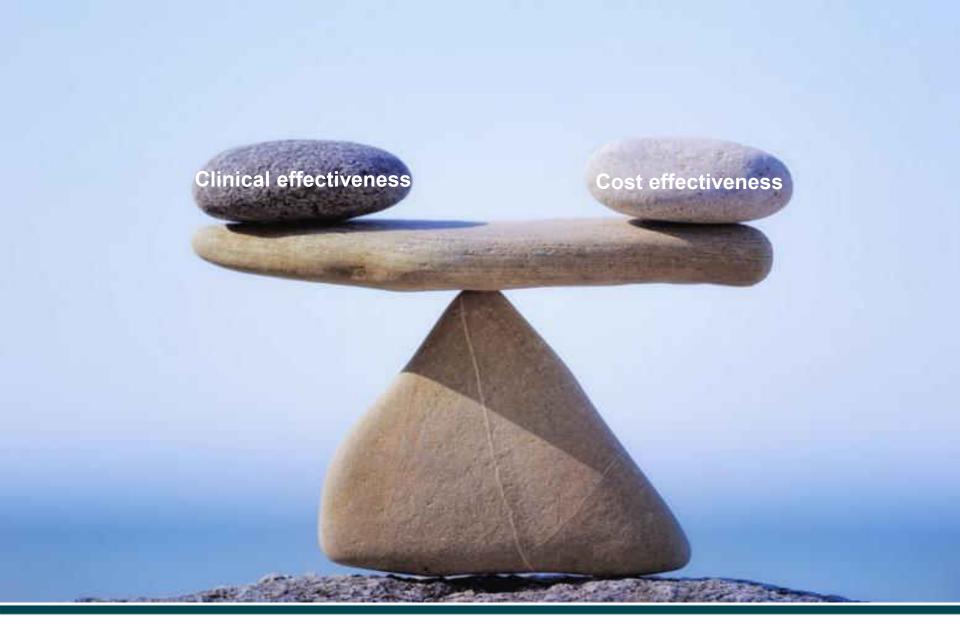


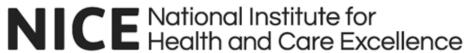
GRADE Criteria

- 1. Study design
- 2. Study limitations
- 3. Consistency of an effect across studies
- 4. Directness of evidence
- 5. Precision
- 6. Reporting bias
- 7. Strength of association
- 8. Dose response gradient
- 9. Confounding



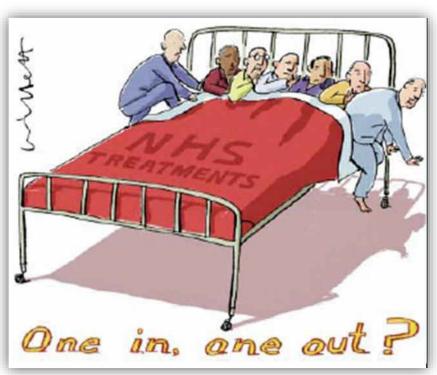






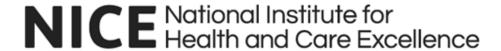
Cost Effectiveness

- If the NHS spends more on one thing, it has to do less of something else
- Could we do more good by spending the extra money in other ways?
- This is called the 'opportunity cost'
 = the value of the best alternative use of resources



"The sorts of questions that NICE decides are at the heart of the debate over U.S. health care reform. Can we automatically fund any advance in health care, regardless of how marginal the benefit might be, or is it possible to introduce a transparent, rule-based, evidentiary form of health care rationing?"

- Kerr & Scott (2009). 'British Lessons on Health Care Reform' NEJM September 9th.

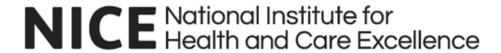


Assessing cost-effectiveness

• "Those developing clinical guidelines, technology appraisals or public health guidance <u>must</u> take into account the relative costs and benefits of interventions (their 'cost effectiveness') when deciding whether or not to recommend them." (Principle 2, SVJ, NICE 2008)

However

• "Decisions about whether to recommend interventions should not be based on evidence of their relative costs and benefits alone. NICE must consider other factors when developing its guidance, including the need to distribute health resources in the fairest way within society as a whole." (Principle 3)

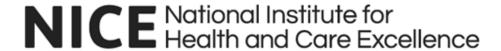


Patient and public involvement

Supporting the involvement of people using services, carers and the public in all NICE work programmes

Advice to NICE and collaborating centres on methods of involvement

Identifying public participants (organisations and individuals) Information, training and support to lay people who work with NICE (as individuals or organisations)

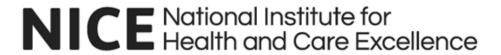


NICE Social Value Judgements

Describes the principles behind judgements that NICE and its advisory bodies should apply when making decisions about recommendations such as:

- Additional factors to consider than costs and benefits alone
- Targeting health inequalities
- Avoiding discrimination
- Considering 'rare' diseases

The current (2008) edition of Social Value Judgements is under revision. It pre-dates the Equality Act 2010. The Act's requirements now govern NICE's approach to applying social value principles when considering legally protected groups.



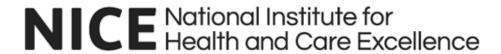
NICE's approach to equality analysis **Equality and Health inequalities** diversity and inequity Social exclusion Age Area-based Disability deprivation Gender re-**People** Other social and assignment environmental Socio-economic sharing Pregnancy & factors protected maternity characteristics Race Religion or belief Sex **Special** For example: Sexual Homeless people groups orientation Looked after children Asylum seekers

People in prison



Why involve lay people in guideline development?

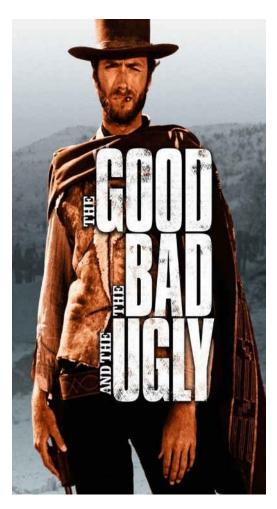
- Intrinsic value
- Promotes democracy
- Redistributes power
- Allows patients to influence the health system
- A goal in itself that does not require justification
- A role in gaining legitimacy
- Shows responsiveness to public need
- Support for implementation

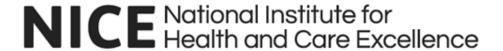


Lay members' feedback

How easy did you find it to contribute to the work of your committee?

- "The Chair always made me feel my contribution was important."
- "I found that as a lay member, I was treated with respect and as an equal member of the group. My views were given equal consideration to others."
- "A lot of medical terminology for a lay person to get used to."
- "I sometimes felt like the views of the lay members weren't taken seriously or given the same 'weight' as the academic or clinical members. This meant that after a while I was reluctant to contribute unless it was something I felt very strongly about."

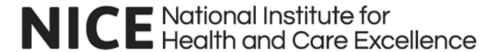




Shared decision making



- Using evidence to support conversations about values, preferences, risk- aversion, goals, hopes...
- Using guidance to support clinicians to have these conversations
- Using tools to support patients to make decisions
- Cultural change

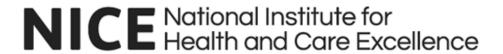


Challenges for guideline programmes

Methodological and process:

- Ensuring guidelines are up to date with new evidence (surveillance, updates);
- Methodological advance
 - E.g. GRADE, NMAs
- Ageing population
 - Co- and multi-morbidities
- Resourcing constraints
 - Adaptation/contextualisation

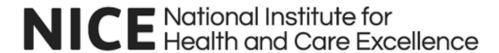




Further challenges – putting guidance into practice

- Lack of trust in guidance
- Redefining health as 'disease' (eg HSDD)
- Lack of organisational support and resources - structures and processes
- Guidance recommendations at a population level versus individual decision making

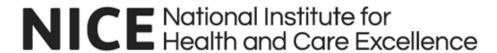




Implementation support available from NICE includes...

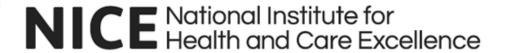


- Regional field team for personal support
- Audit tools
- Costing templates
- Patient Decision Aids



Some of our "person-centred" guidelines...

- Patient experience in adult NHS services
- Medicines adherence: involving patients in decisions about prescribed medicines and supporting adherence
- Medicines optimisation: the safe and effective use of medicines to enable the best possible outcomes



Further reading

CASSELS, A. (2016) Patient speaking for patients. What constitutes genuine patient input into pharmaceutical policymaking? Int J. Health Gov. 21:89-95

GREENHALGH T, Howick J, Maskery N. (2014) <u>Evidence based medicine: a movement in crisis?</u> BMJ;348:g3725;

PHAM-KANTER, G. (2014), Revisiting Financial Conflicts of Interest in FDA Advisory Committees. Milbank Quarterly, 92: 446–470;

ARNSTEIN, SR (1969), A Ladder of Citizen Participation. JAIP, Vol. 35, No. 4; 216-224

RASHID, A., THOMAS, V., SHAW, T. et al. (2016). Patient and Public Involvement in the Development of Healthcare Guidance: An Overview of Current Methods and Future Challenges. The Patient. Vol 1, 1-6.

Developing NICE guidelines: the manual (Oct 2014)

