

NICE National Institute for
Health and Care Excellence

The generation of evidence and healthcare decision-making: current challenges

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NUS Initiative to improve Health in Asia Forum (NIHA)

Singapore, 1 July 2013

Functions

1. Production, dissemination and implementation of “guidance”.
2. Development of “performance standards and metrics”
3. Provision of “information”.

Background

- Established in 1999
- Aim: to reduce variation in the availability and quality of treatments and care
- NICE guidance helps resolve uncertainty about which medicines and treatments work best and which represent best value for money for the NHS
- NICE sets national standards on how people with certain conditions should be treated

A Brief History

- 1999: Technology appraisals
Clinical guidelines
- 2002: Interventional procedures
Implementation
- 2005: Public health guidelines
- 2008: NICE International
- 2009: Cost saving MedTec programme (new technologies)
Diagnostics
NHS Evidence
- 2011: National Prescribing Centre (now Medicines Prescribing Centre)
- 2013: Social care guidelines
Highly specialised technologies

Core principles of all NICE guidance

- Based on the best evidence available
- Expert input
- Patient and carer involvement
- Independent advisory committees
- Genuine consultation
- Regular review
- Open and transparent process
- Social values and equity considerations

This is how we add value

Better outcomes for patients

Knowledge for professionals and patients

Our purpose is to improve the quality and productivity of clinical practice, public health and social care

Effective use of NHS resources

Access to the NHS market

Independence, objectivity and transparency

From clinical to social care



- New formal role in developing guidance and setting standards for social care
- Opportunity to provide integrated guidance for every part of the patient pathway
- Challenge for a system not used to the same standards of evidence-based practice – but also much more user-centred than healthcare
- We will apply the same rigour to social care that we currently bring to drug and technology appraisal

Why NICE?

Technical

- Selection of priority topics
- Critical appraisal and synthesis
- Economic analysis (costing, incentive ceiling, CEA)

Clinical

- Clinical input: evidence base and baselines
- Feasibility assessment and field testing
- Buy-in and implementation

Process

- Stakeholder engagement, QA, contestability, independence of vested interests
- Institutional and operational platforms

The three challenges: Evidence

- Our committees regularly find a lack of high quality evidence to make decisions
- ‘Research recommendations’ an important part of guidance development
- Our relationship with research funders in the UK is an important one
- A more proactive role for guideline developers in deciding what research public money is spent on?



**National Institute for
Health Research**



The screenshot shows the NICE website search interface. The page title is "NICE National Institute for Health and Care Excellence". The search results are for "Search research recommendations". The search criteria are: Guidance title: [empty], Guidance by topic: "Mental health and behavioural conditions", Guidance by type: "All", Guidance by date: "September 2002" and "May 2013", Priority: "All". The search results show 1-20 of 352 results. The first result is:

ID	Research recommendation	Date	Guidance type
TA1141	Randomised controlled trials conducted in the UK comparing methadone and buprenorphine using flexible dosing are required	Jan 2007	Technology appraisals
TA1142	Randomised controlled trials conducted in the UK comparing high-dose methadone and high-dose buprenorphine are required	Jan 2007	Technology appraisals

The three challenges: Implementation

- How can guidance have weight without turning professional development into medicine-by-numbers?
- Relationship between the national (what?) and the local (how?) important
- Our guidelines and standards support other mechanisms in the system (CQIN, QOF)
- Implementation needs the support of the whole system

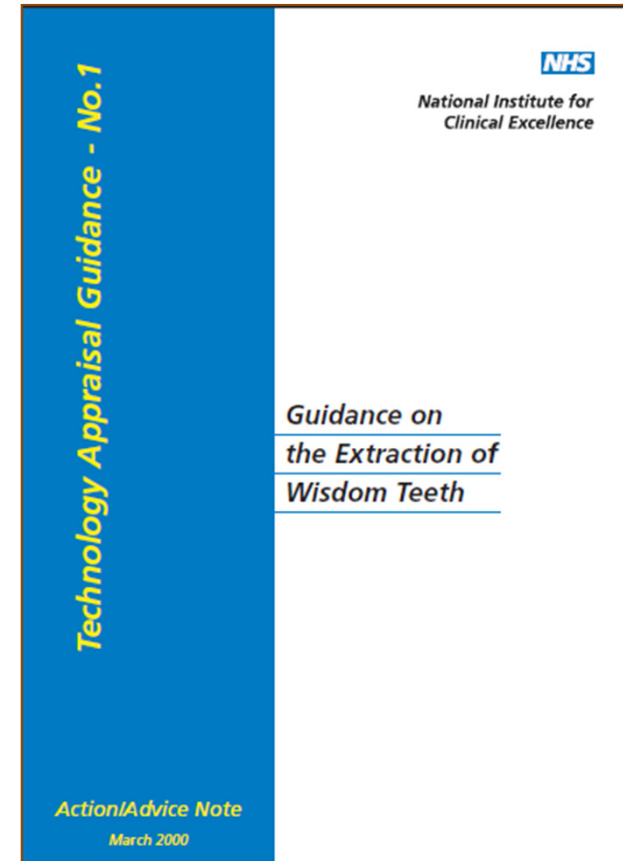
Example of Stroke Quality Standard

- Proportion of patients with acute stroke who meet any of the indications for immediate imaging who have had brain imaging within 1 hour of arrival at the hospital. [Numerator & Denominator defined]



We've published a lot of guidance!

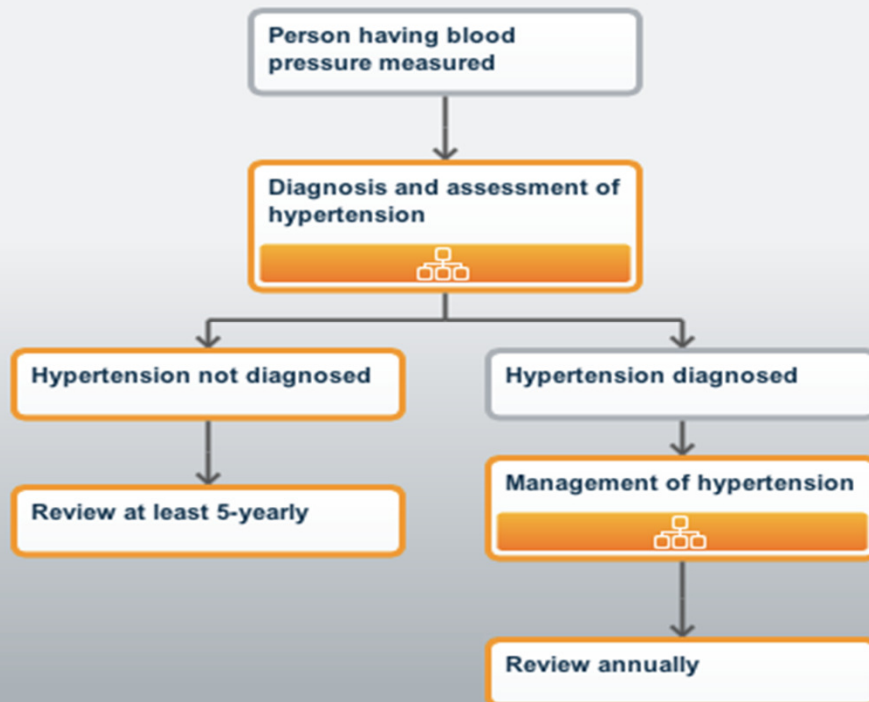
Products	Numbers
Cancer service guidance	10
Clinical guidelines	122
Interventional procedures	341
Technology appraisals	222
Medical technologies	3
Public health	34
Safety solutions	2
Total	734



Excludes superseded guidance

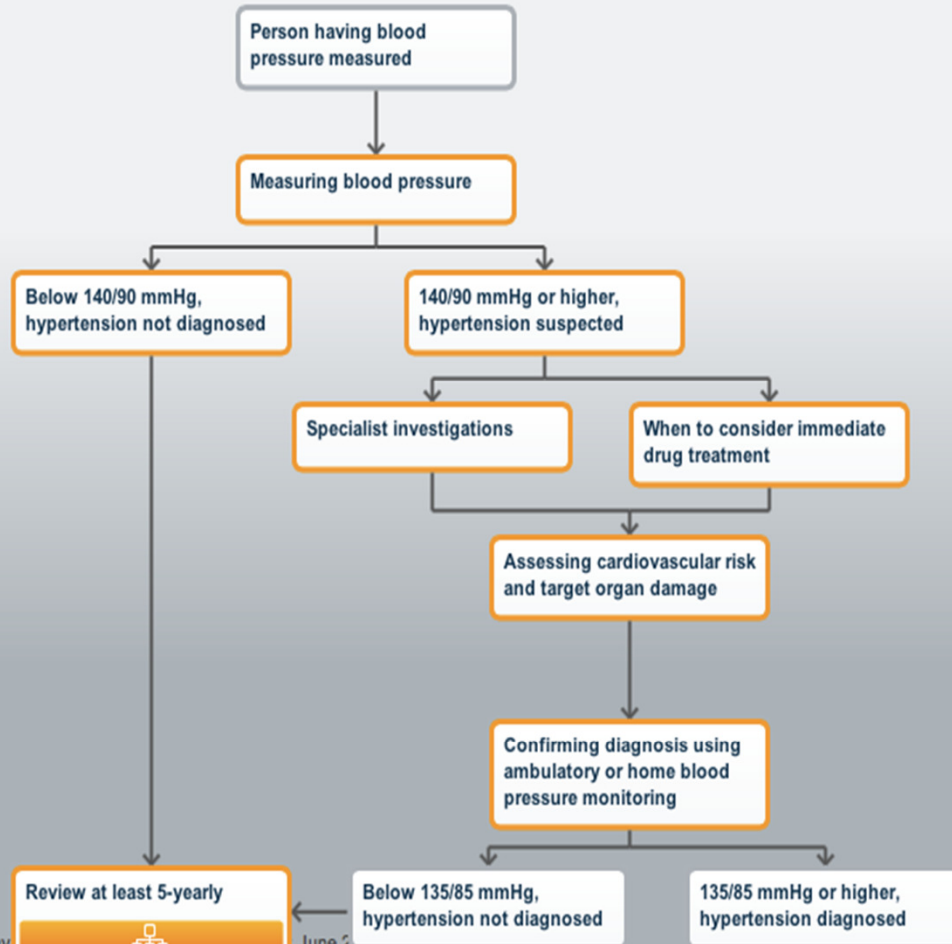
Hypertension overview

Hypertension ▾



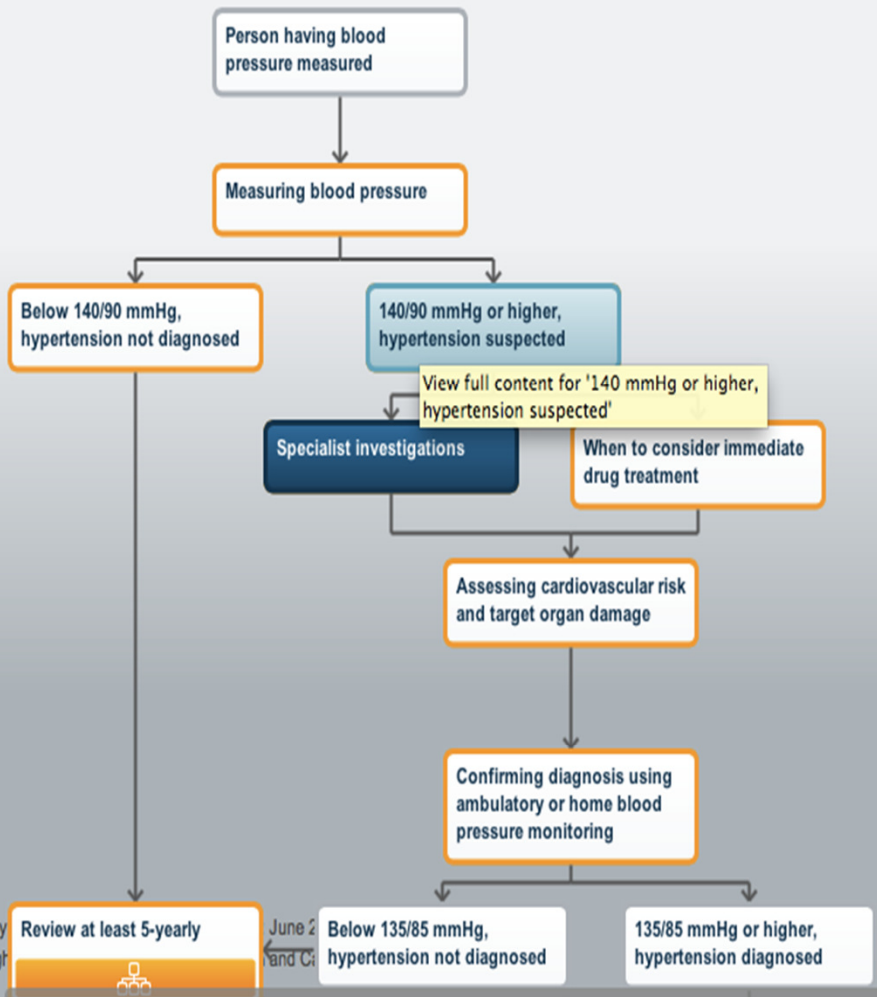
Diagnosis and assessment of hypertension

Hypertension ▾



Diagnosis and assessment of hypertension

Hypertension



Specialist investigations

Refer people to specialist care the same day if they have:

- accelerated hypertension (blood pressure usually higher than 180/110 mmHg with signs of papilloedema and/or retinal haemorrhage) or
- suspected pheochromocytoma (labile or postural hypotension, headache, palpitations, pallor and diaphoresis).

Consider the need for specialist investigations in people with signs and symptoms suggesting a secondary cause of hypertension.

Source guidance

Medicines and prescribing

Safety, efficiency and effectiveness
in the use of medicines



We now offer a comprehensive suite of advice and support for delivering quality, safety, and efficiency in the use of medicines.

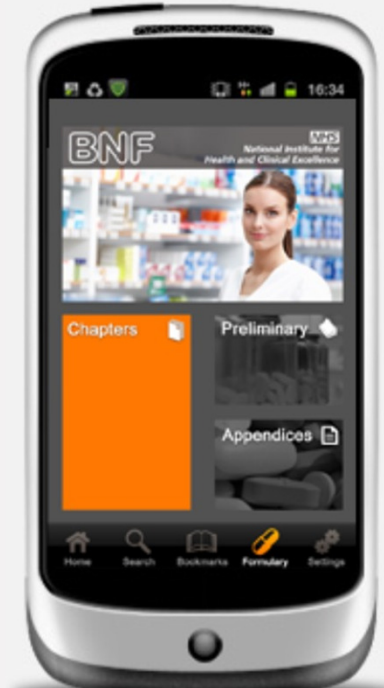
Medicines and prescribing from NICE

We have the most
comprehensive source of
advice on the best way to use
medicines

Download the free NICE Guidance and BNF apps

Download the NICE Guidance app for our latest guidance and quality standards.

The BNF and BNF for Children (BNFC) apps are available for health and social care professionals who work for, or are contracted by, the NHS in England, Scotland and Wales. Log in with your Athens username for instant access to up-to-date prescribing information from the BNF.



NICE Implementation Collaborative

- To support the timely and consistent *implementation of NICE guidance*
- To drive the uptake of innovation and *understand the barriers* and help overcome them
- Underpinned by a *Concordat of key partner* organisations
- To oversee *4 pilots* – then general action to improve uptake

Pilot areas:

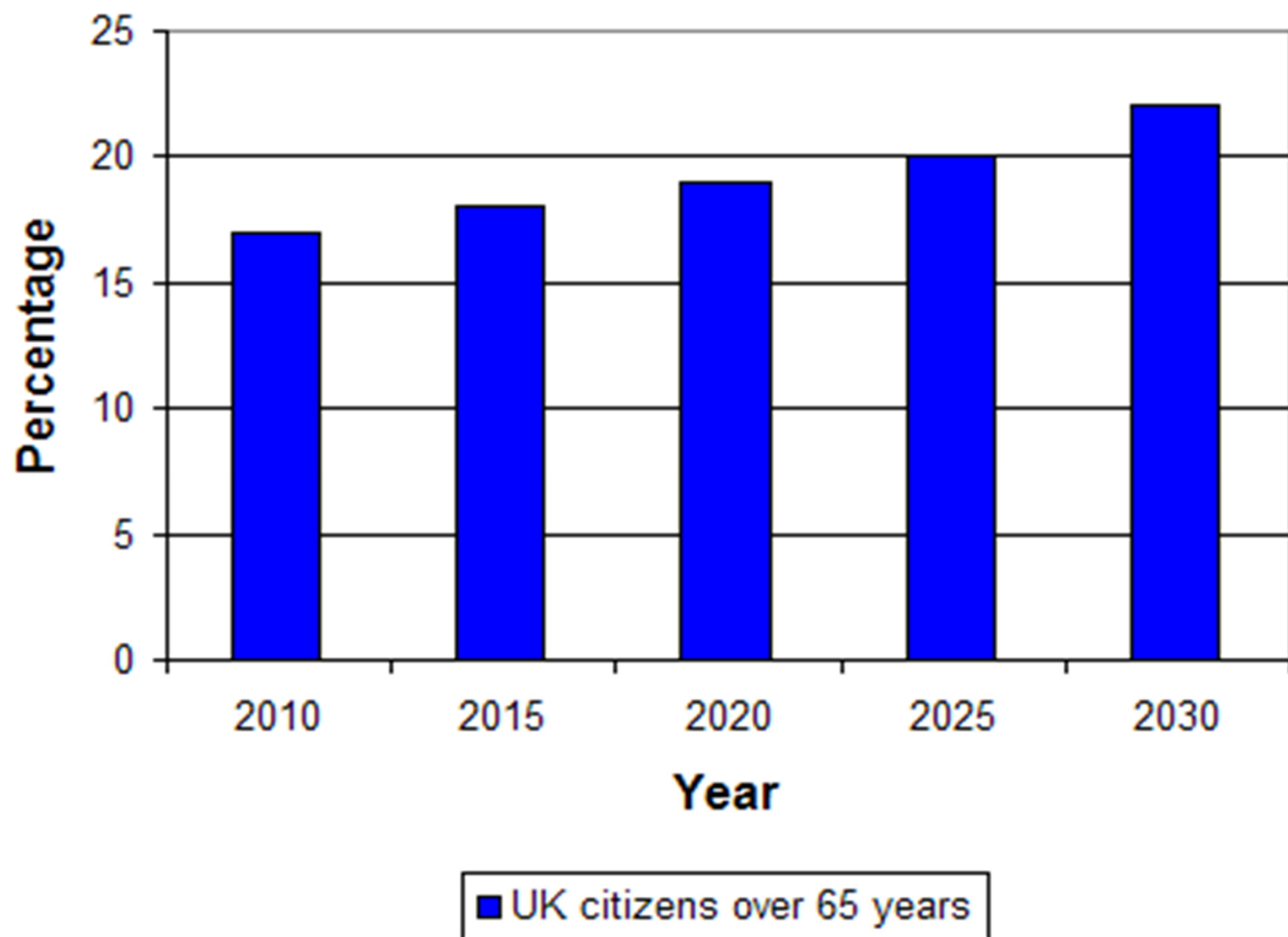
- Denosumab – postmenopausal women
- New oral anticoagulants – stroke prevention in atrial fibrillation
- Insulin pumps for type 1 diabetes
- B-type natriuretic peptide testing for heart failure

The three challenges: Relevance

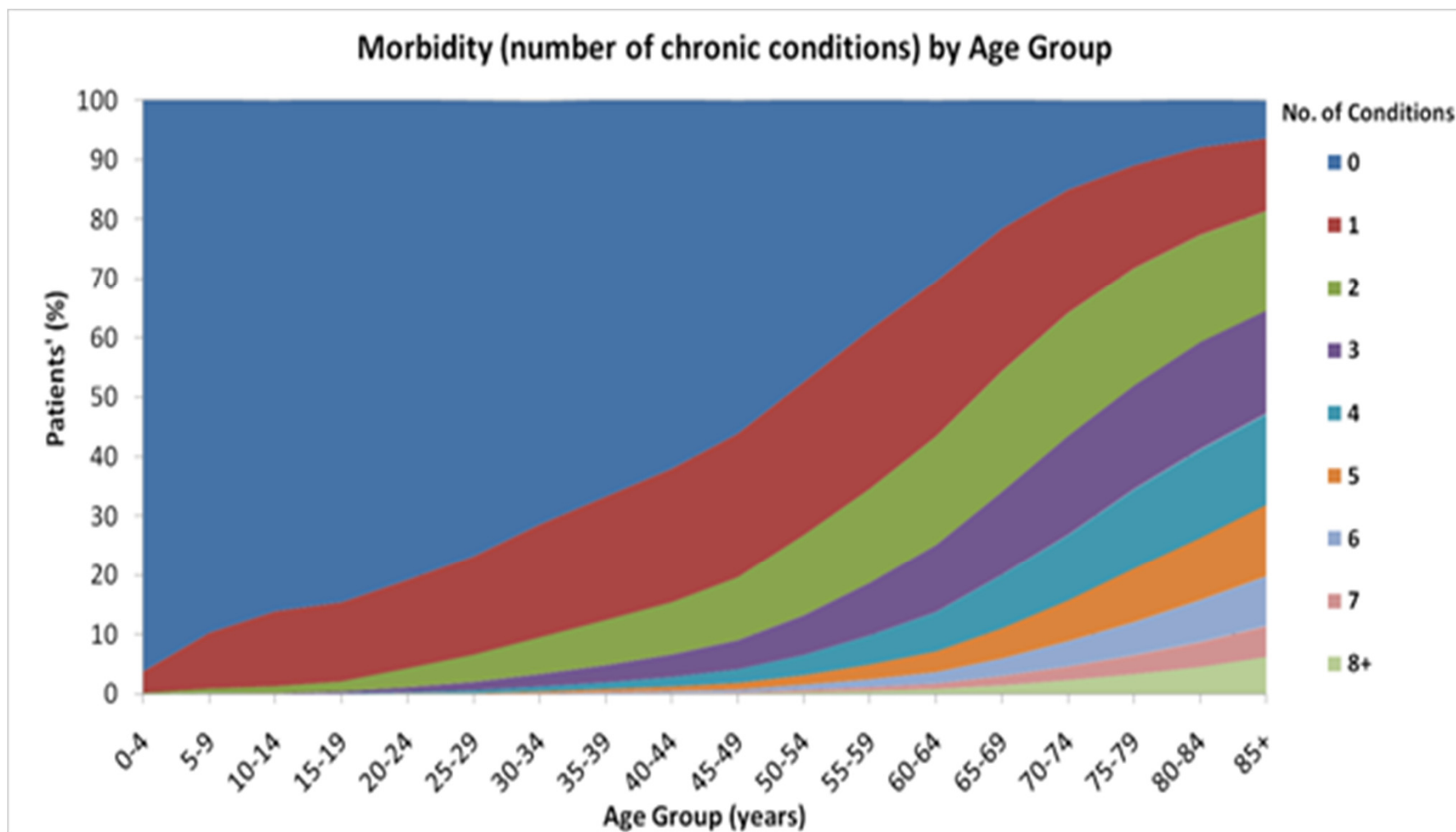
- The world is getting older and fatter
- How can guidance continue to be relevant:
 - To generalists working with multimorbidities?
 - To changing needs of the public, socially and demographically?
- How can we make sure the evidence base remains strong (eg not excluding patients with multimorbidities from clinical trials)

The Big Picture

- 1900-50 Infectious diseases
- 1950 - 2000 Acute diseases
- 2000- Chronic diseases (LTCs)



Multimorbidity is common in Scotland

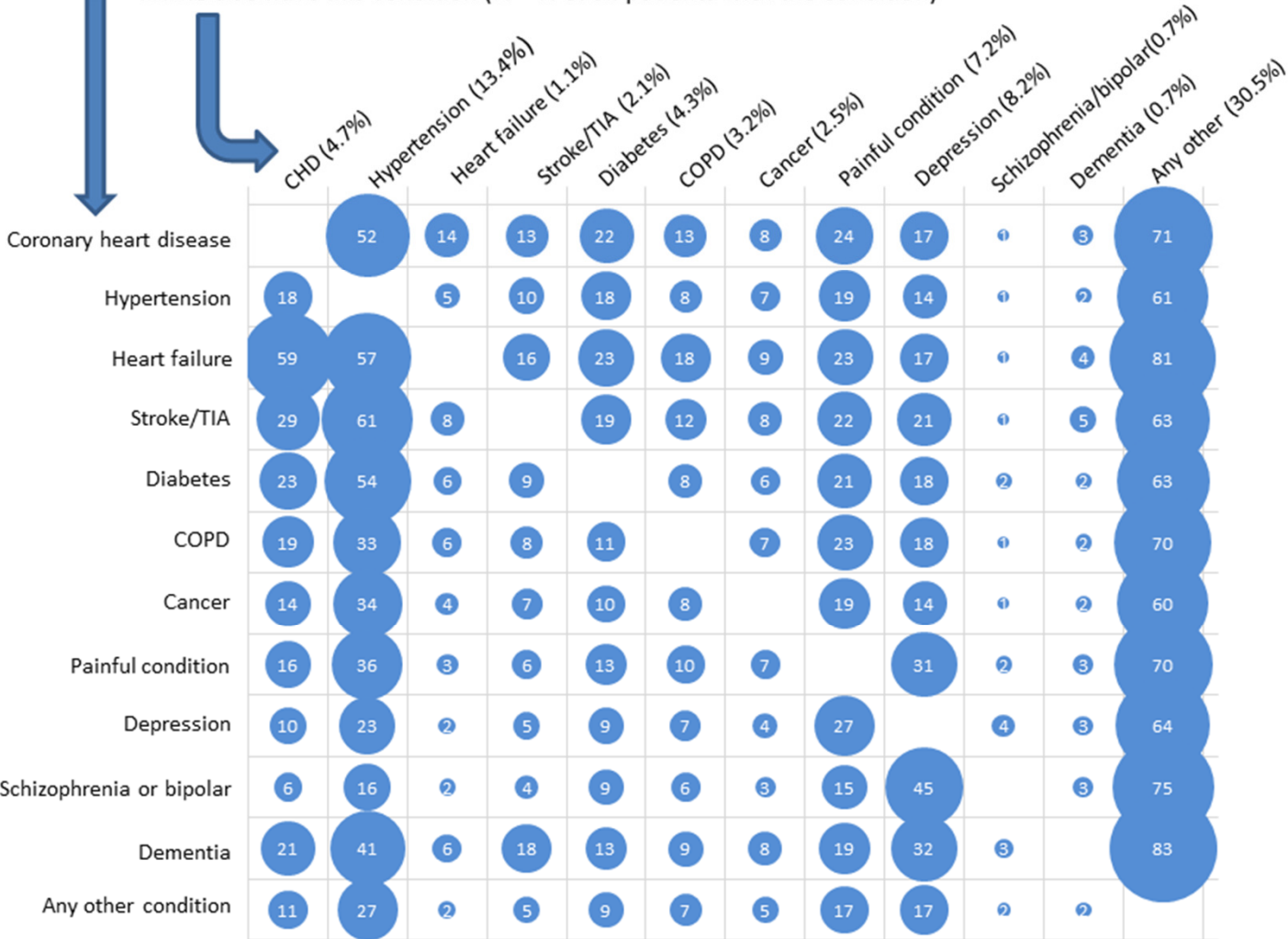


- The majority of over-65s have 2 or more conditions, and the majority of over-75s have 3 or more conditions

Most people with any long term condition have multiple conditions in Scotland

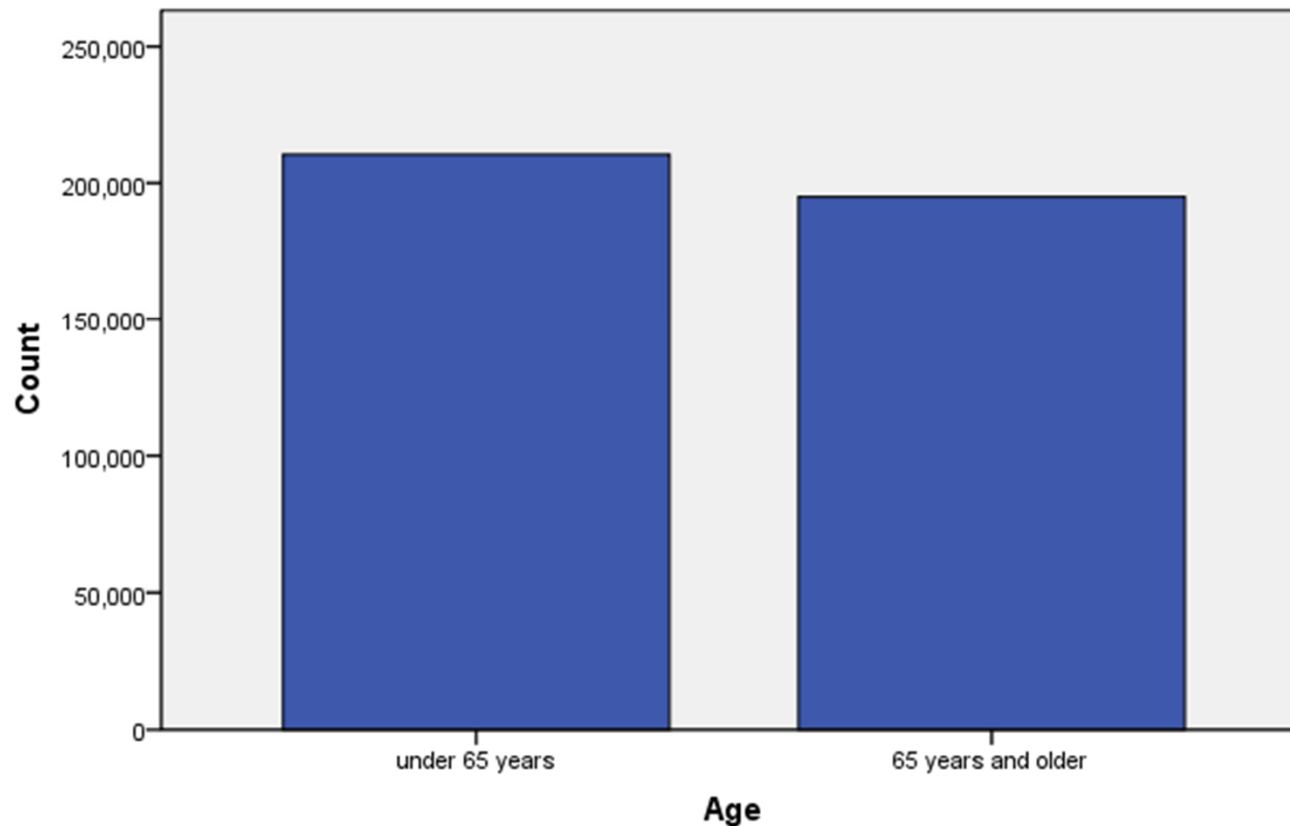
% of patients with this condition...

...who also have this condition (% = % of all patients with the condition)



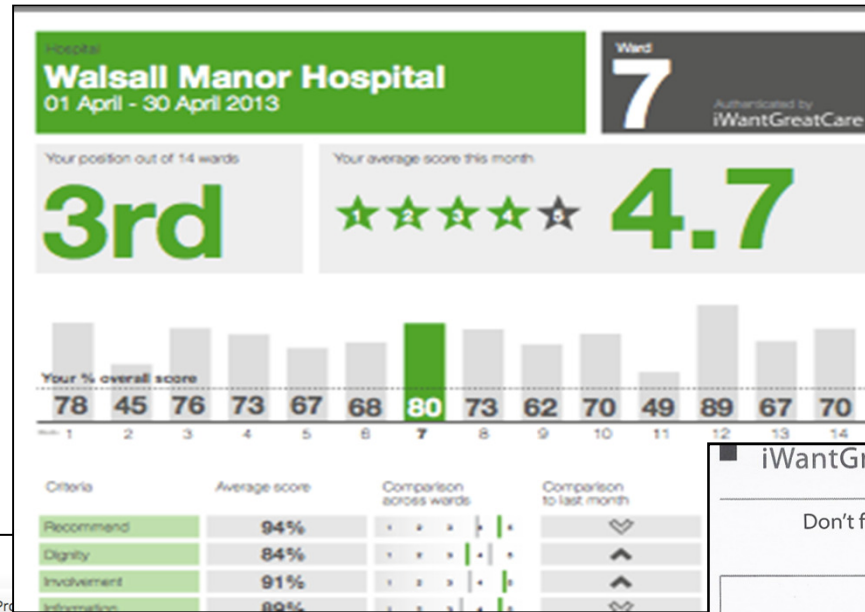
There are more people in Scotland with multimorbidity below 65 years than above

Number of people in Scotland who are multimorbid (two or more long term conditions)



NICE

iWantGreatCare.com



iWantGreatCare

About News For Patients For Doctors For Charities For Healthcare Professionals

The Royal Marsden NHS Foundation Trust
Please provide feedback on your experience

- Your opinion and experience of this hospital is very important.
- Please take just one minute to tell us what you thought.
- Your feedback is totally confidential and is collected by iWantGreatCare, an independent organisation.

Please choose your hospital and ward
First choose the hospital you were seen at

Please select

Then choose the ward/department

Please select

Add your review

iWantGreatCare The Leeds Teaching Hospitals NHS NHS Trust

Don't forget, you can complete this form at:
<http://leeds.iwgc.net>

You need to fill in this section

1. How likely are you to recommend our ward to friends and family if they needed similar care or treatment?

Extremely likely Unlikely
 Likely Extremely unlikely
 Neither likely nor unlikely Don't know

2. What was good about your care, and what could be improved?

*Not keen on the food
lunchtime meal
in a bowl
and the porridge is poor*

3. My age is: I am: Male Female

Our evidence search engine can help improve outcomes for people using the health and social care services

NICE National Institute for Health and Care Excellence

NICE welcomes new users from the former National electronic Library for Medicines (NeLM). [Click Here for Information](#)

Evidence Search Health and Social Care

Anything you need to know about health and social care?





Evidence Implementation Relevance

Do you share these challenges?

What can we learn from each other?

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Thank you