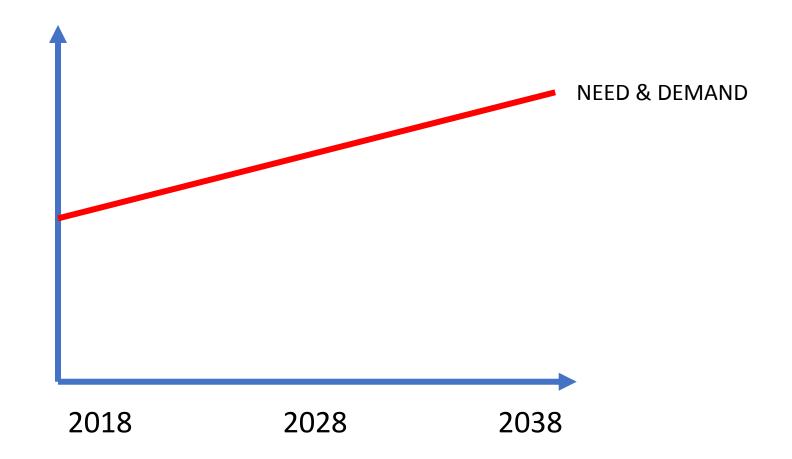
The future is not like the Cuillins, a destination awaiting our arrival.....

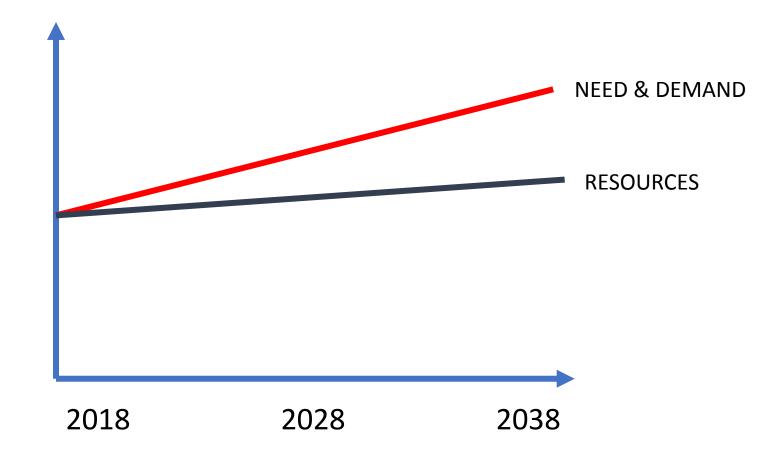


It is much more like the Forth Bridge, something we imagine, design, plan and build,



"the future is already here, it is just not evenly distributed" william gibson the Neuromancer 1984





INCREASING NEED

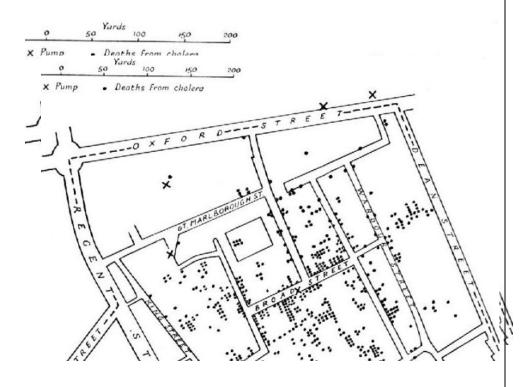
POPULATION AGEING

NEW NEEDS FROM NEW TREATMENTS

NEW NEEDS FROM NEW DISEASES

We have had 2 healthcare revolutions, with amazing impact

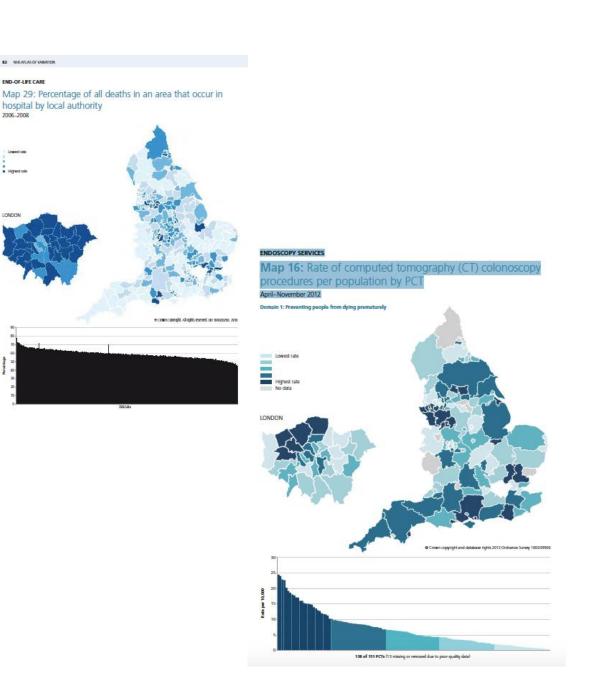
The First was the public health revolution



The Second has been the technological revolution supported by 50 years of increased investment & 20 years of evidence based medicine, quality and safety improvement eg

- Antibiotics
- MRI & CT
- Coronary artery bypass graft surgery
- Hip & knee replacement
- Chemotherapy
- Radiotherapy
- Randomised controlled trials
- Systematic reviews

after 50 years of progress all societies still face three massive problems. The first is unwarranted variation in healthcare ie "Variation in utilization of health care services that cannot be explained by variation in patient need or patient preferences." Jack Wennberg Variation reveals the other two problems











1 1 I I I I I

REDUCE UNNECESSAR



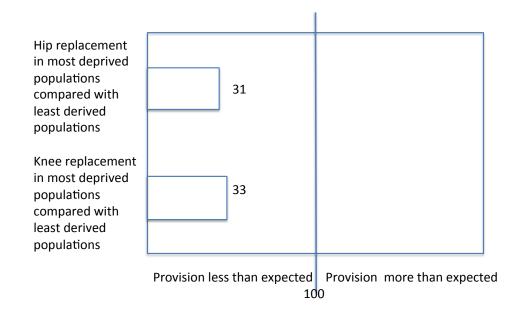




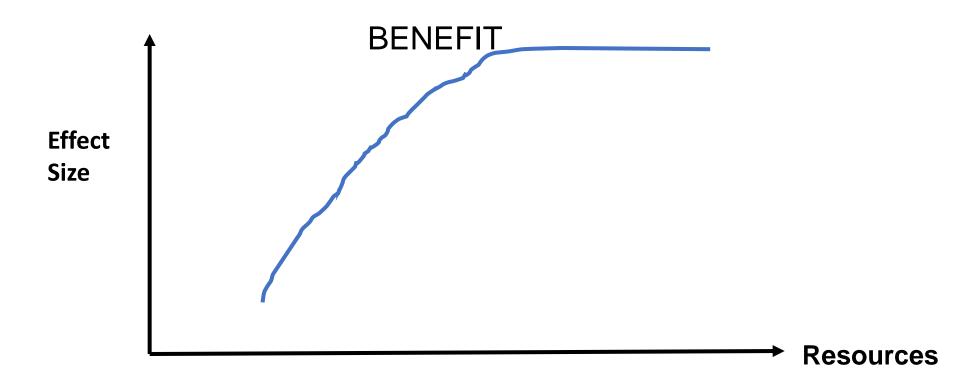
The first is Underuse of high value interventions which results in

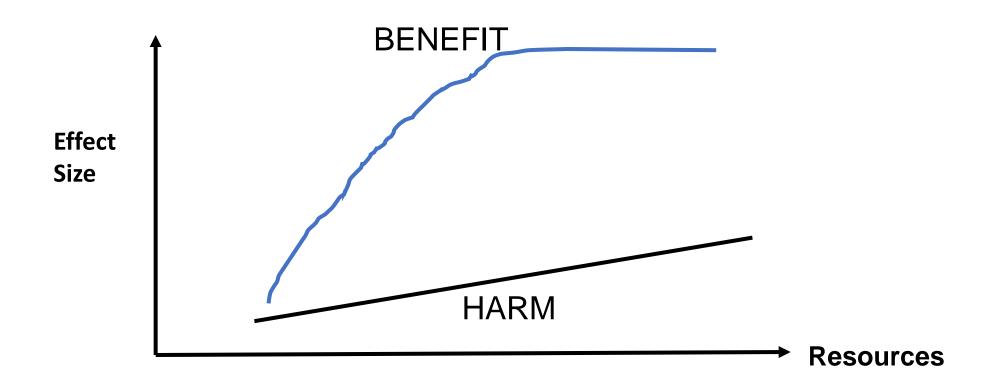
1. Preventable disability and death eg if we managed atrial fibrillation optimally there would be 5,000 fewer strokes and 10% reduction in vascular dementia, and

2. inequity

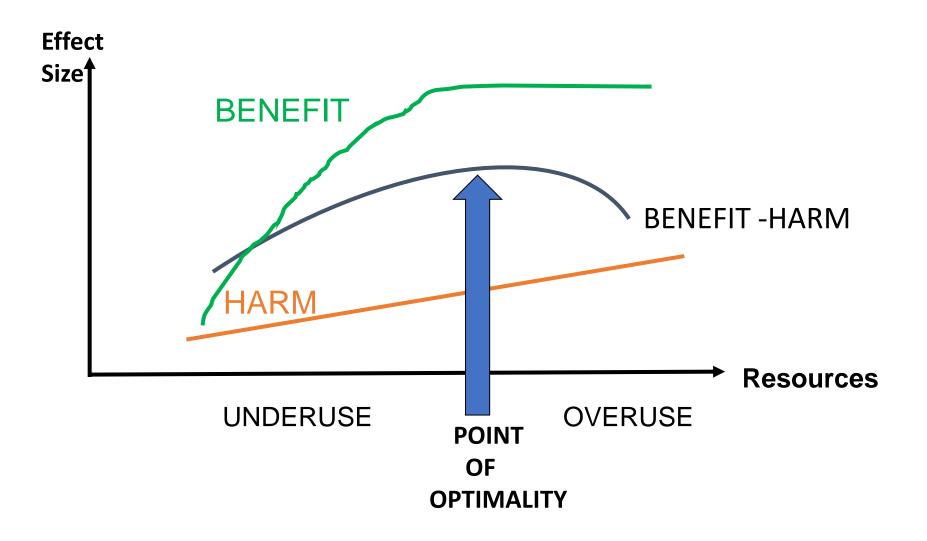


The second is overuse which





The second is overuse which 1. always wastes resources and 2. can cause harm



In the next decade need and demand will increase by at least 20 % so what can we do?

Well, we need to continue to

1. Prevent disease, disability, dementia and frailty to reduce need

2.Improve outcome by provide only cost-effective, evidence based interventions

3. Improve outcome by increasing quality and safety of process

4. Increase productivity by reducing cost

These measures reduce need and improve efficiency BUT we also need to increase value

The Aim is **triple value**

- Personal value, determined by the value the individual places
 - not only on the outcomes of their treatment, both beneficial and harmful, related to the problem that was bothering them most but also
 - to the way the decision was made and their investment

and, from the population's perspective, two different types of value

- Allocative value , determined by how well the assets are distributed to different sub groups in the population
- Technical value , determined by how well resources are used for all the people in need in the population

ACADEMY OF MEDICAL ROYAL COLLEGES

Protecting resources, promoting value: a doctor's guide to cutting waste in clinical care waste is anything that does not add value and as the Academy's re[port emphasises we need to develop a 'culture of stewardship' to ensure the NHS will be with us in 2028 and 2038

"...One doctors' waste is another patient's delay. Potentially, it could be that other patient's lack of treatment.

This process creates a higher value health care system where resources: cash, carbon and staff time, are released from some parts of the system to develop a new services or support struggling services."

How will we best act as stewards of the service ?

 Ensuring that every individual really really understands the treatment they are requesting
sharing in the responsibility of the allocation of resources

3. Meeting the needs of the whole population

1. Ensure that every individual really really understands the treatment they are requesting

we are now in the third healthcare revolution – driven by three forces , citizens, knowledge and the Internet

the clinician must ensure that the person requesting treatment has access to both the best current knowledge and empathy





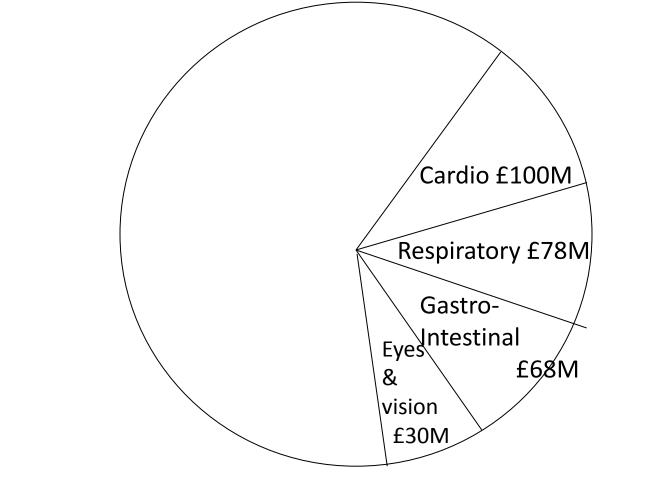


to you +++++ HOME - WHAT'S INVOLVED? WHY IS IT IMPORTANT? - REGISTER HERE STORIES ORDER RESOURCES FEEDBACK

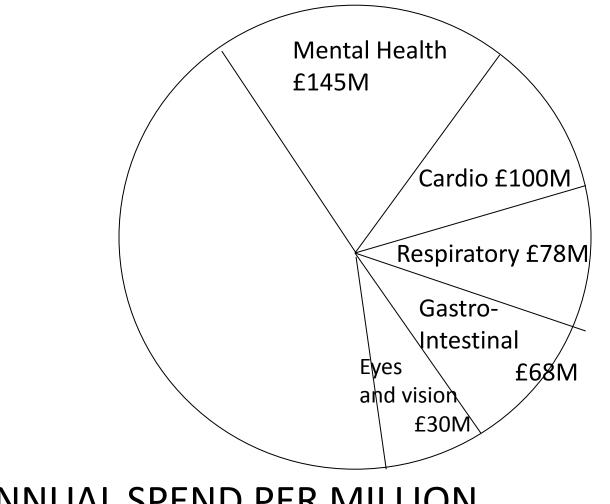
What matters

2. Shifting resource from budgets where there is evidence from unwarranted variation of overuse or lower value to budgets for populations in which there is evidence of underuse and inequity

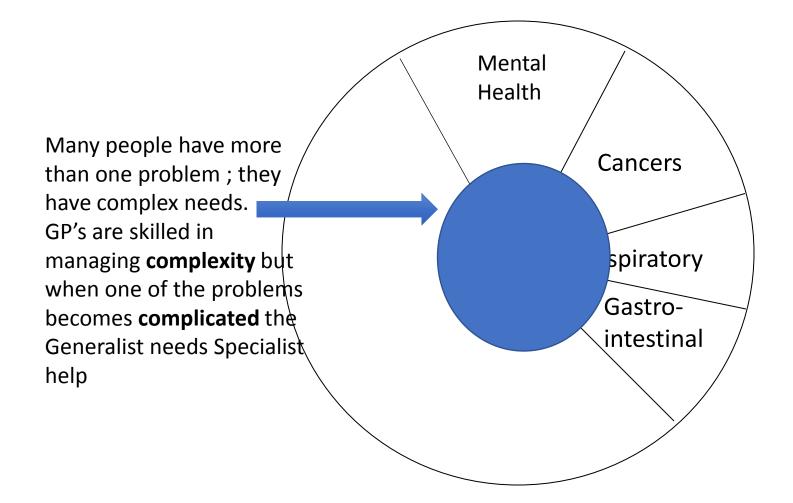
2. shar, ing in the responsibility of the allocation of resources

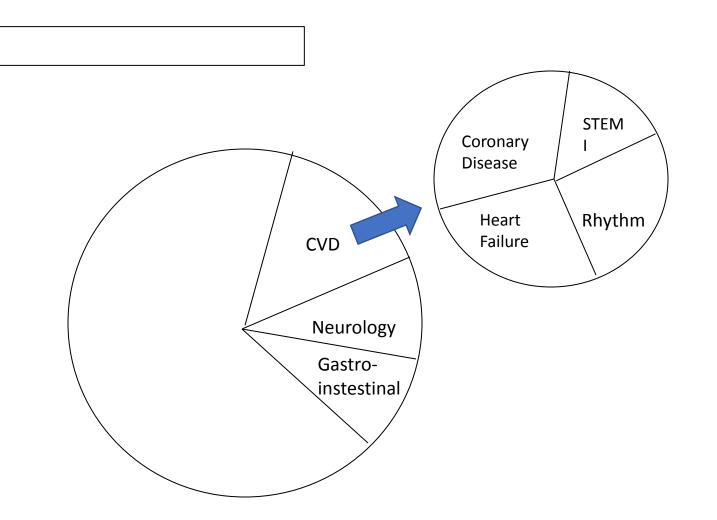


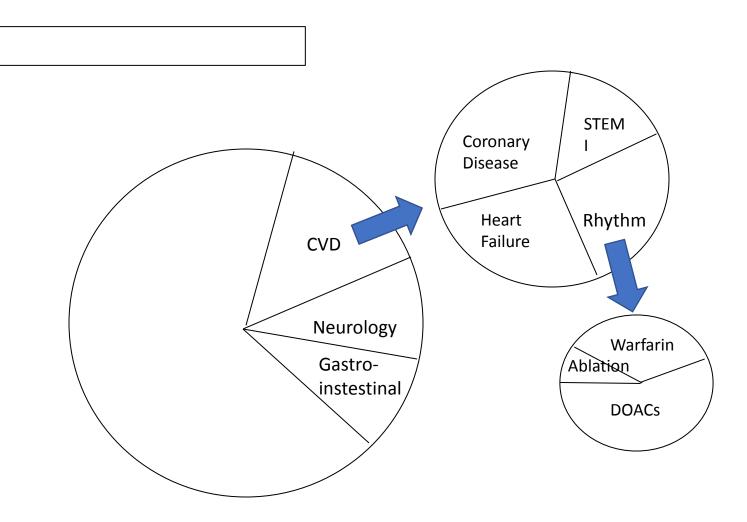
ANNUAL SPEND PER MILLION IN ENGLAND

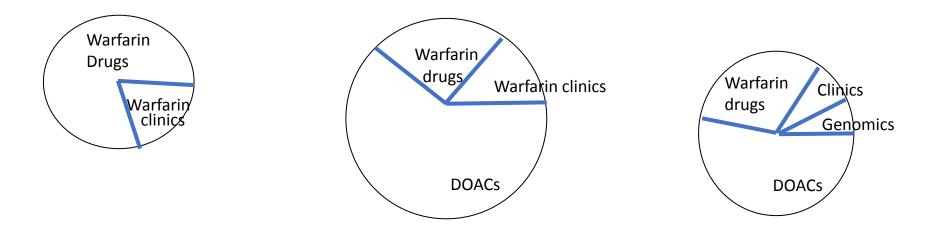


ANNUAL SPEND PER MILLION





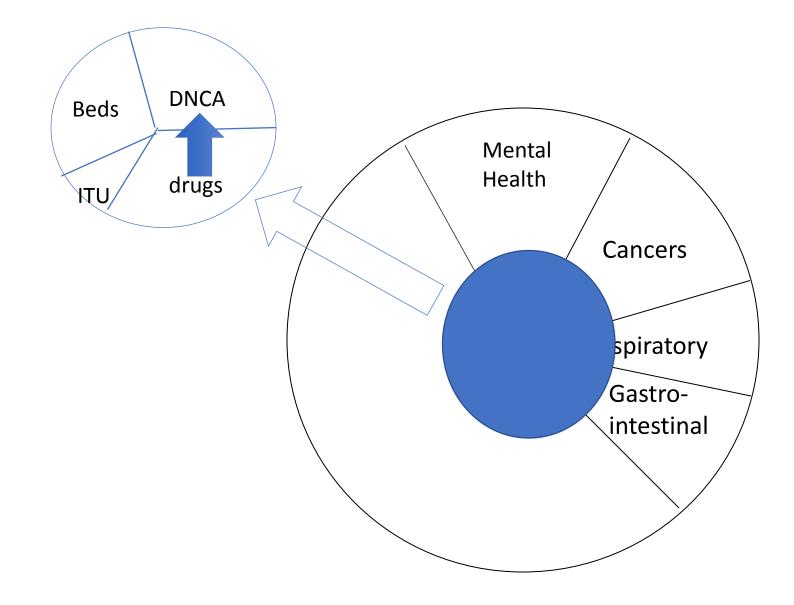




openheart Direct oral anticoagulants versus warfarin: is new always better than the old?

John Burn,¹ Munir Pirmohamed²

To cite: Burn J, Pirmohamed M Direct oral anticoagulants versus warfarin: is new always better than the old?. *Open Heau* 2018:e000712. doi:10.1136/ openhrt-2017-000712 Thus, overall NHS annual expenditure could be reduced by >£0.5B per annum in the near future without impairment of the nation's health if DOACs are restricted to those of working age and/or are shown to be sensitive to warfarin.

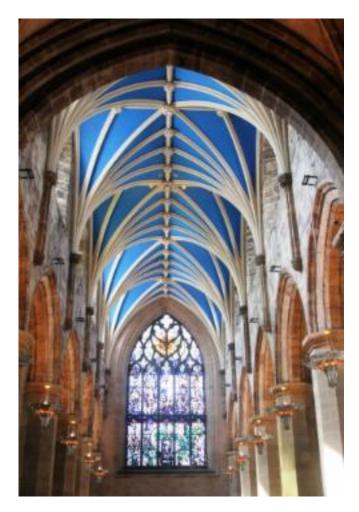




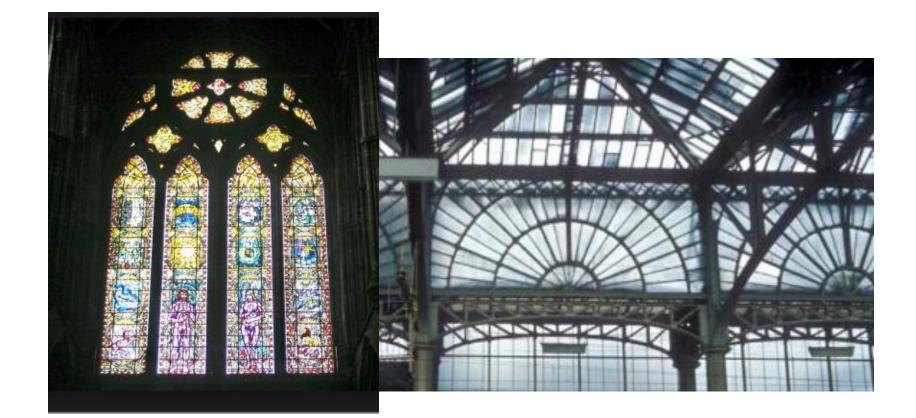


3. Meeting the needs of the whole population









The hospital as the cathedral





1.Is the service for people with seizures & epilepsy in Glasgow better than the service in Lothians?

2.Who is responsible for the headache service for people in Fife?

3. Is the network for people with liver disease in Tayside better than the service in Grampians?

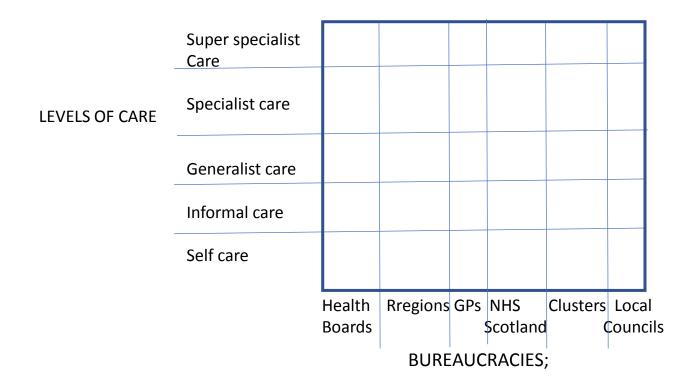
4.Which network for frail elderly people in the Scotland provides the best value?

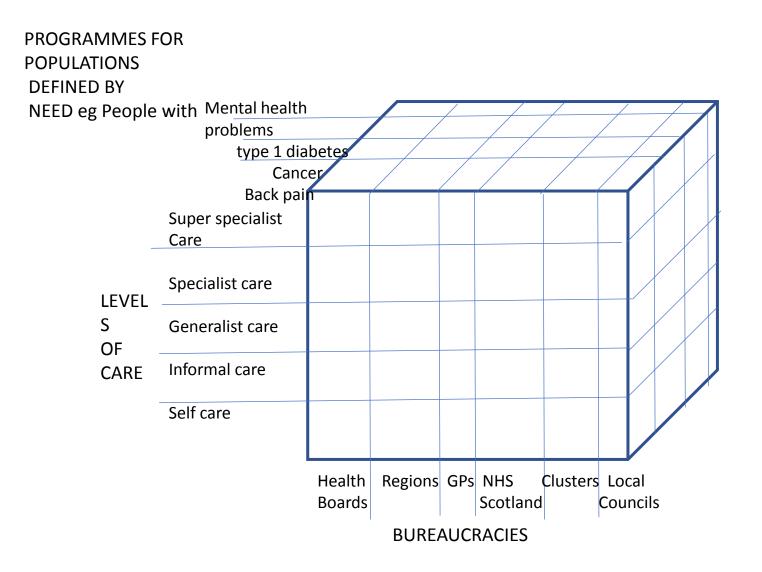
5.Which network for children with mental health problems improved most in the last year ?

6. How many networks are there for people with asthma in Lanarkshire, and is that different from the number of networks for people with colorectal ca, or for people with inflammatory bowel disease?

Population healthcare systems focus primarily on populations defined by a common need which may be a symptom such as breathlessness or a condition such as arthritis or a common characteristic such as frailty in old age,

the focus is not on institutions, or specialties or technologies. Its aim is to maximise value for those populations and the individuals within them

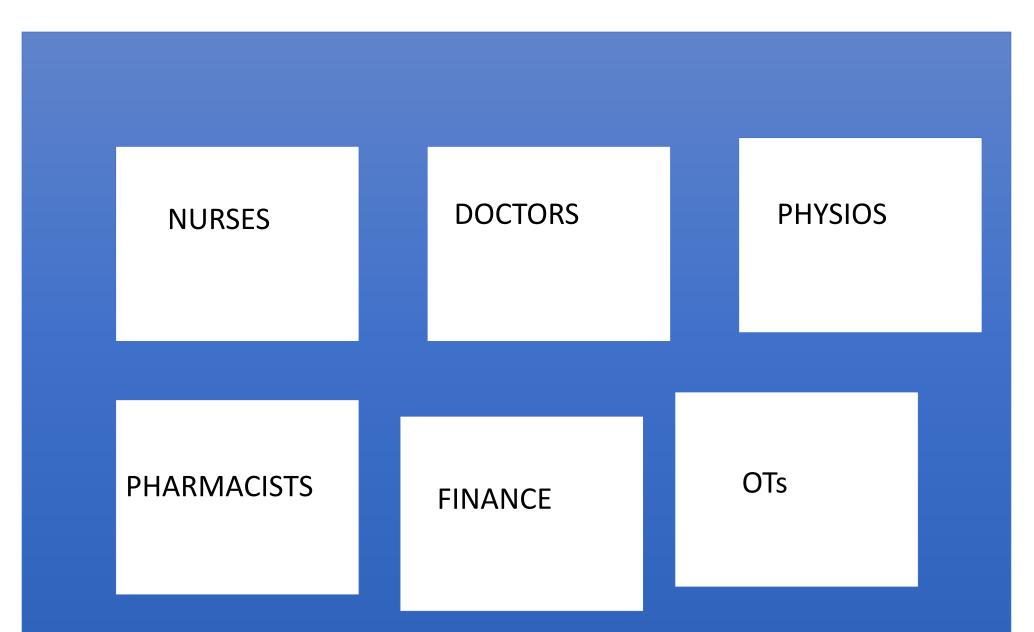




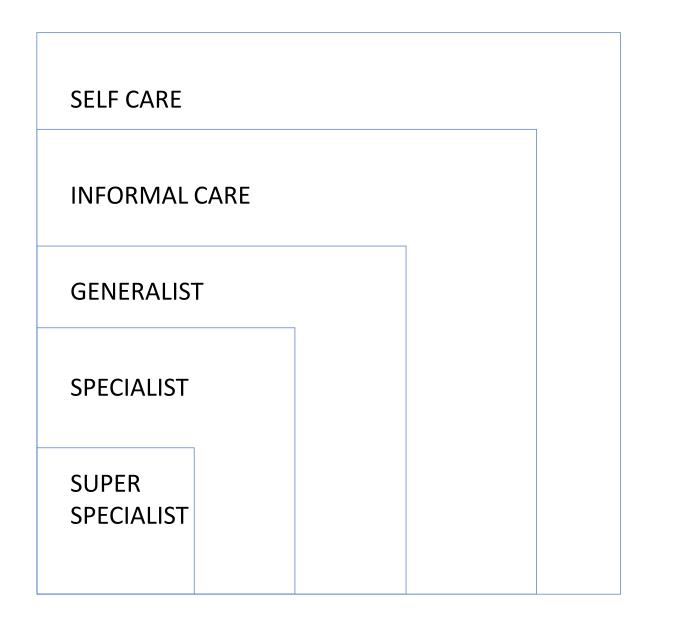
The Care Archipelago



The Professional Archipelago



SELF CARE		
INFORMAL CARE		
GENERALIST		
SPECIALIST		

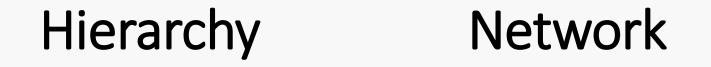


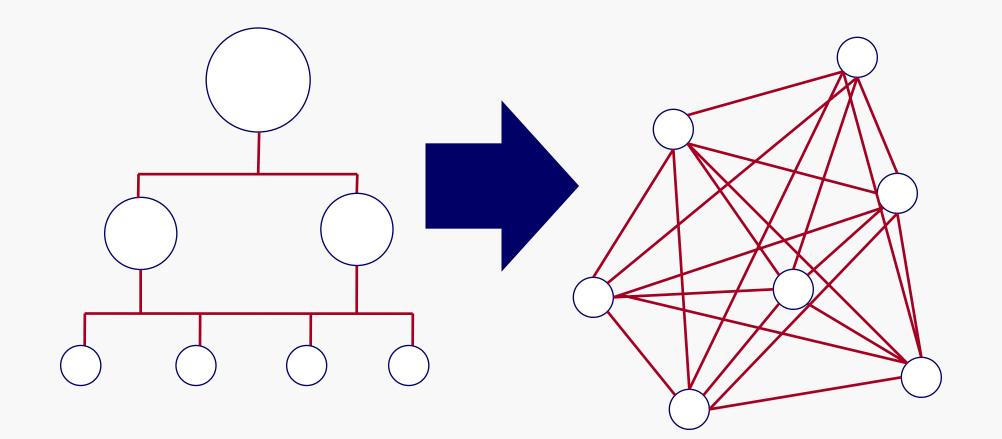
CHOOSING CRITERIA & SETTING STANDARDS

NEWBORN PROGRAMME CRITERIA STANDARDS OBJECTIVES: Achievable Minimum (Core) (Developmental) Programme Outcome Best possible survival for Mortality rates Mortality rate from sickle Mortality rate in infants detected with a sickle cell disease and it's children under five of expressed in person cell disorder by the complications in children less than two per 1000 years under five of less than four screening programme person years of life per 1000 person years of (one death per 100 life (two deaths per 100 affected children) affected children) Programme Outcome Sensitivity of the 99% detection for Hb-SS 99.5% for Hb-SS Accurate detection of all infants born with major screening process 98% detection for Hb-SC 99% for Hb-SC clinically significant 95% detection for other (offer, test and repeat 97% for other variants haemoglobin disorders* test) variants

Newborn Screening for Sickle Cell Disorders Programme Standards

This is an example of a national service set up as a system



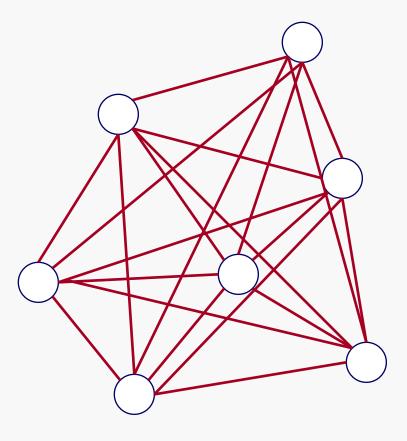




BetterValueHealthcare

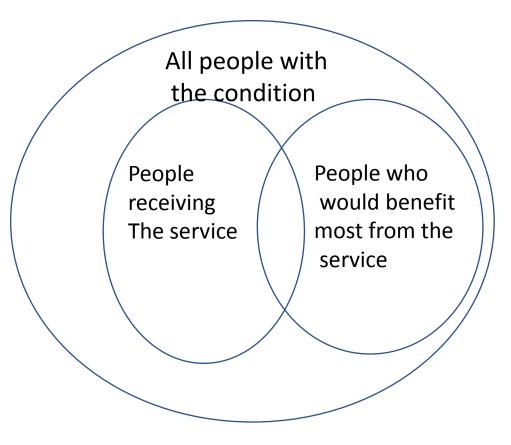
Pathway Network





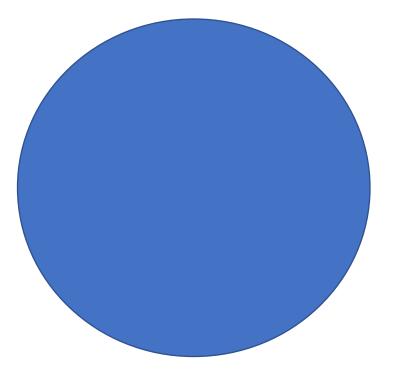


BetterValueHealthcare

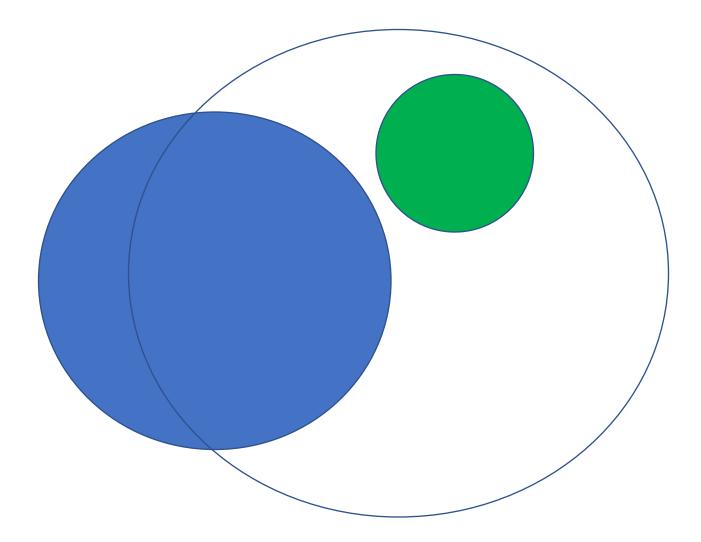


The right People receiving the specialist service All people with the condition who do not need to see the specialist service practice healthcare supported by generalists who are themselves supported by specialists Dr Jones is a respiratory physician in the Derby Hospital Trust and last year she saw 346 people with COPD and provided evidence based, patient centred care, and to

improve effectiveness, productivity and safety



Dr Jones estimated that there are 1000 people with COPD in South Derbyshire and a population based audit showed that there were 100 people who were not referred who would benefit from the knowledge of her team



Dr Jones is given 1 day a week for Population Respiratory Health and the co-ordinator of the South Derbyshire COPD Network and Service has responsibility, authority and resources for

Working with Public Health to reduce smoking Network development

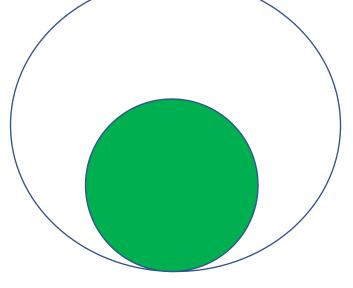
Quality of patient information

Professional development of generalists, and

pharmacists

Production of the Annual Report of the service

She is keen to improve her performance from being 27th out of the 106 COPD services, and of greater importance, 6th out of the 23 services in the prosperous counties

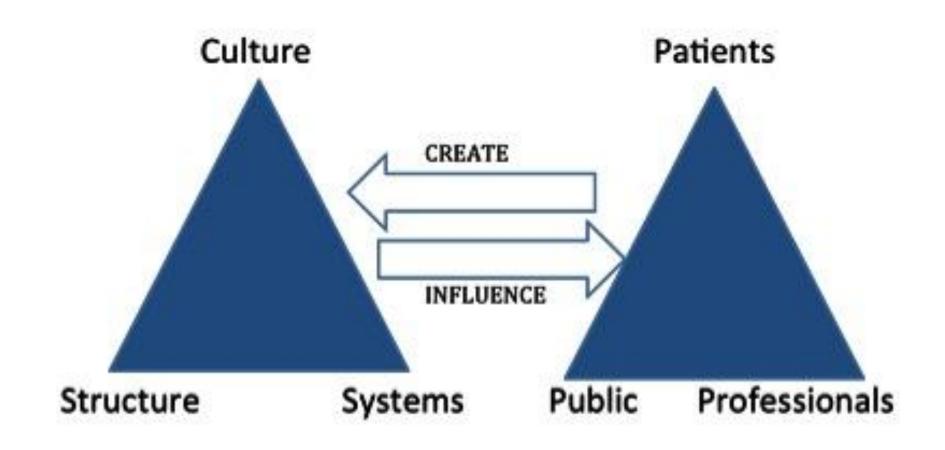


We need a new set of skills

- Understanding and Increasing Value
- Designing and building Systems of Care.
- Creating the Right Healthcare Culture
- Delivering Population-based Medicine
- Delivering Personalised Decision making
- Realising the potential of the Internet and digital services

We need good service management and great population healthcare leadership healthcare, for example asking

how many people are there with XXX in our population ? What proportion should the specialist service see ? Is the specialist service seeing the right people? How many pharmacists are there serving our population? How many new GPs came to work here last year ? Could we prevent XXX better Is everyone with XXX getting an Activity Prescription ?



Ban old language

AcuteCommunity

Manager

Outpatient

Patient

Introduce new language

A **SYSTEM** is a set of activities with a common set of objectives and outcomes; and an annual report. Systems can focus on symptoms, conditions or subgroups of the population

(delivered as a service the configuration of which may vary from one population to another)

A **NETWORK** is a set of individuals and organisations that deliver the system's objectives

(a team is a set of individuals or departments within one organisation)

A **PATHWAY** is the route patients usually follow through the network

A **PROGRAMME** is a set of systems with ha common knowledge base and a common budget

Work like an ant colony; Neither markets nor bureaucracies can solve the challenges of complexity



BetterValueHealthcare



