

COMMISSIONING LABORATORY SERVICES ON THE BASIS OF EVIDENCE

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What is Commissioning?

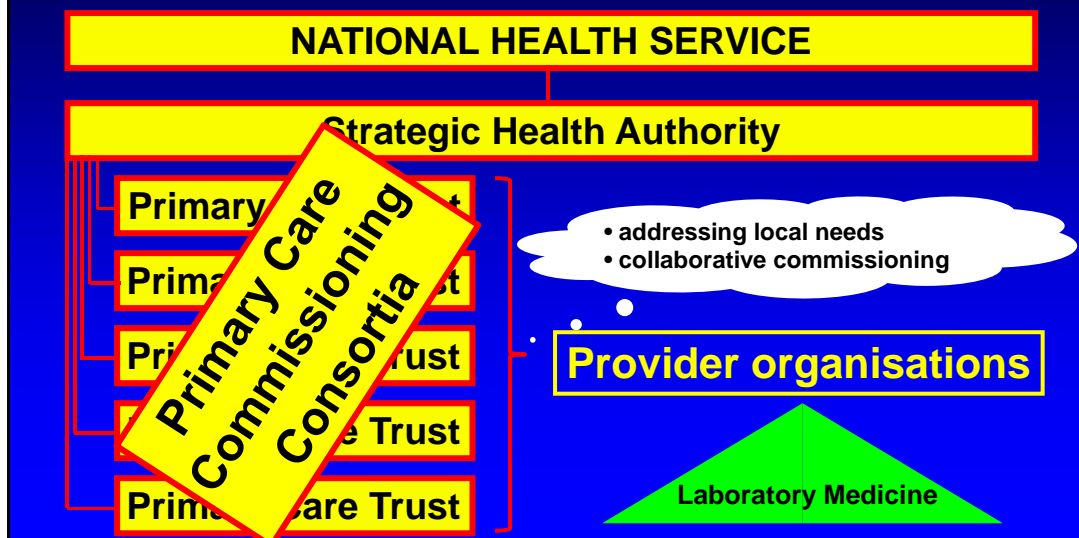
**Commissioning is the process of
ensuring that the health and care
services provided effectively meet
the needs of the population.**

http://www.dh.gov.uk/en/Managingyourorganisation/Commissioning/DH_865

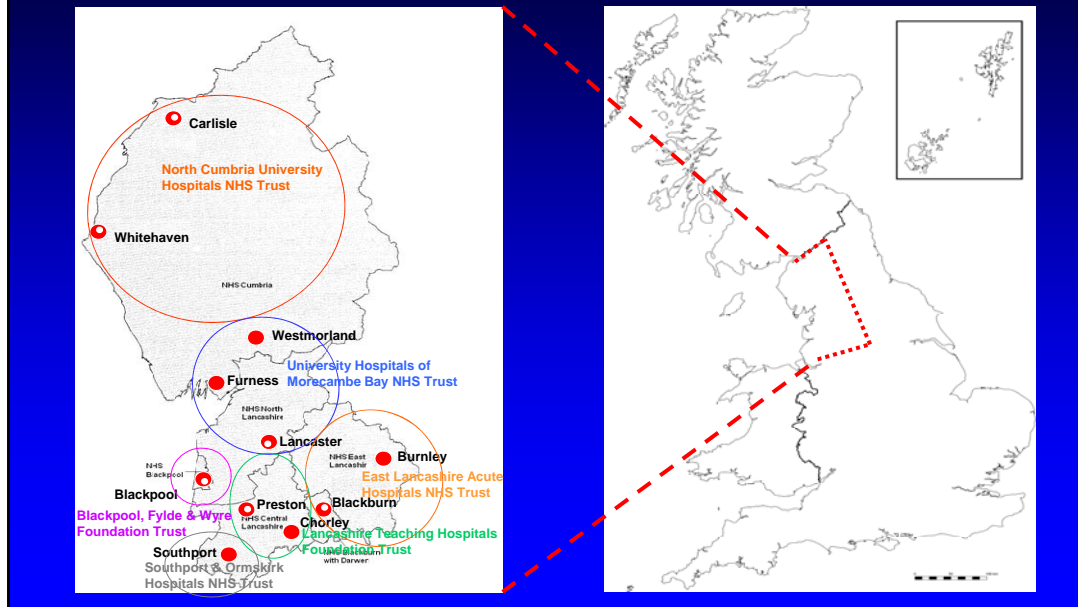
Reform of Health Care Services application to diagnostic services



Commissioning A New Service local need in a national context



Local Need National Context

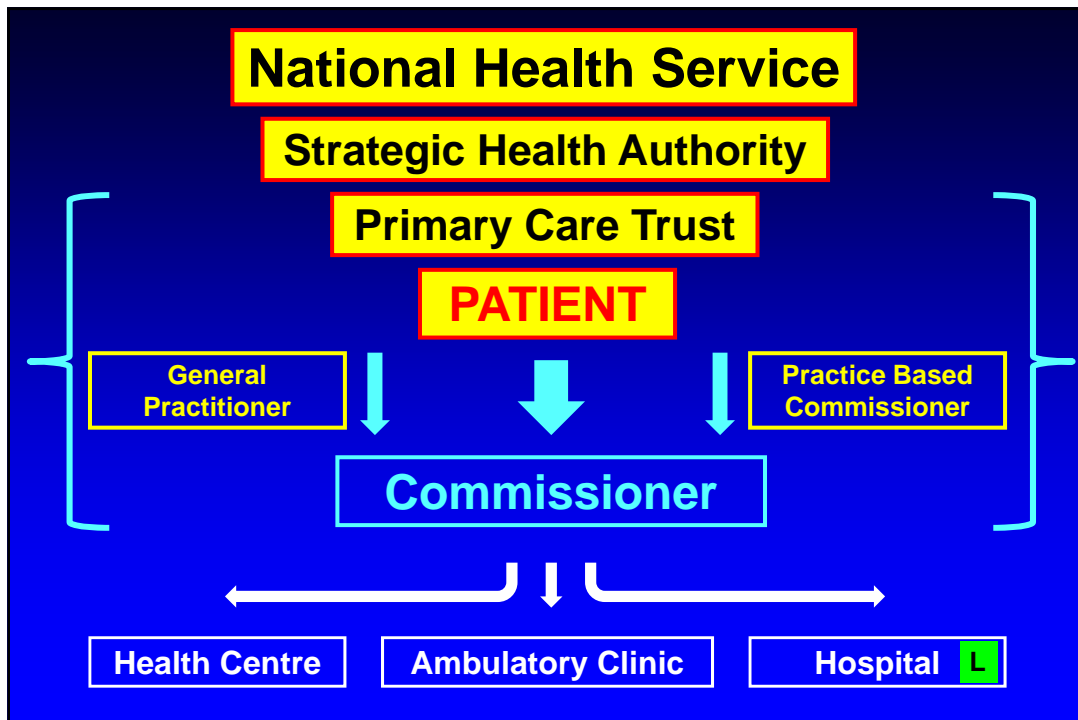


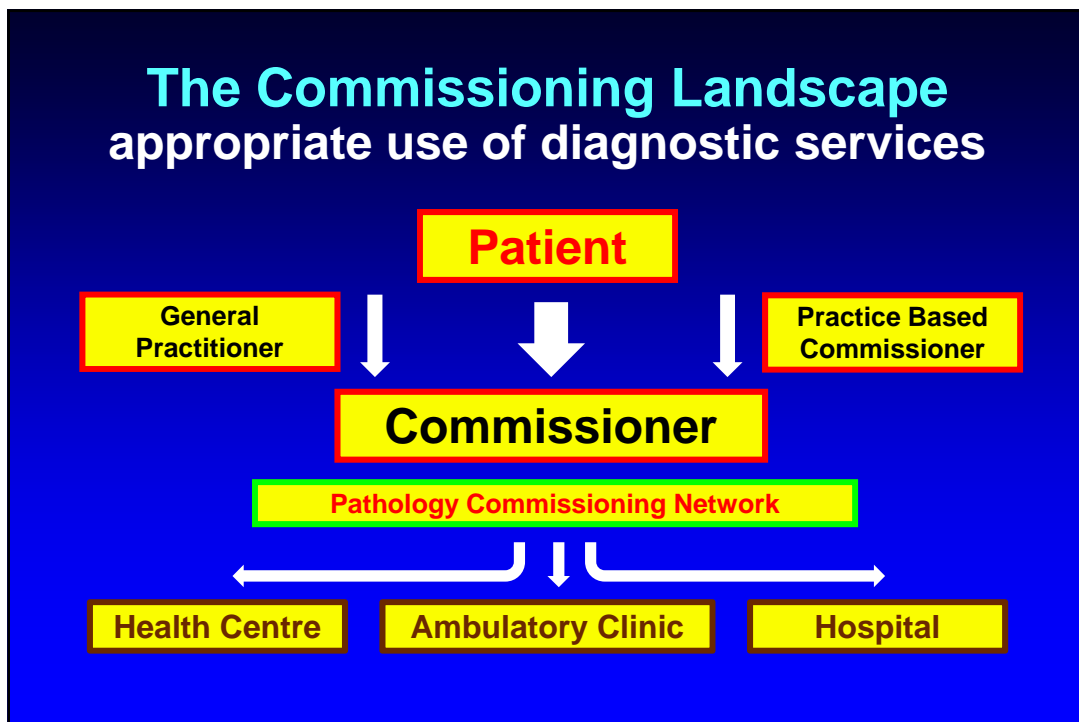
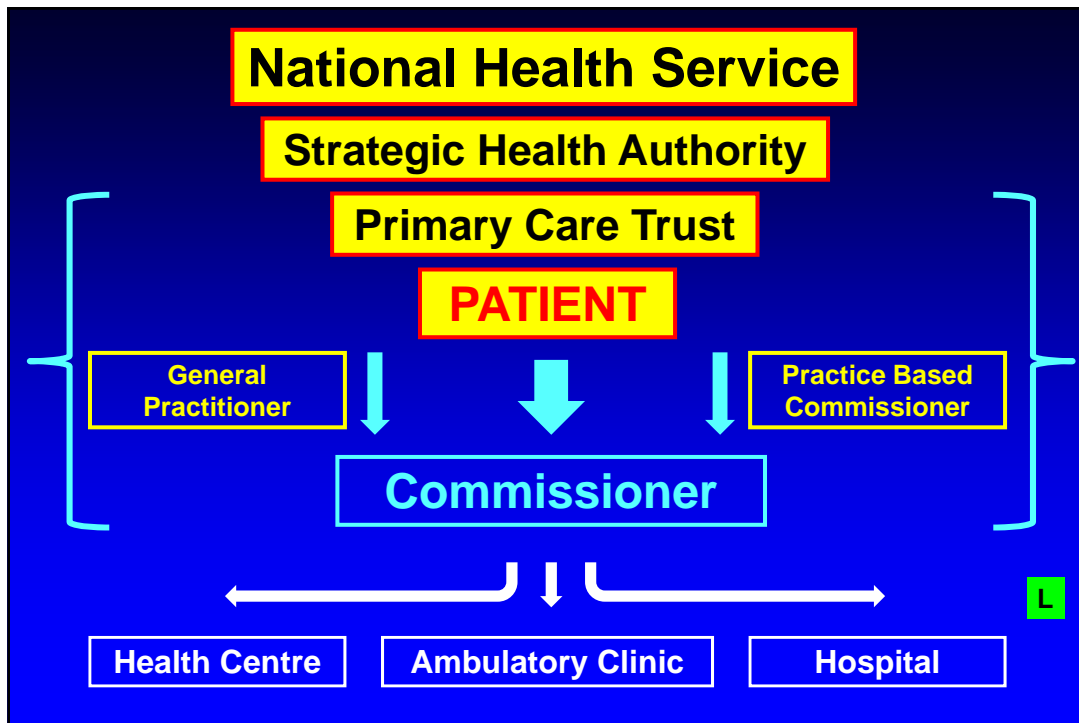
What is Commissioning?

laboratory medicine facilitating the care pathway

- **Locally lead the health service**
- **Work collaboratively with partners**
- **Partner with patients and communities**
- **Partner with clinicians**
- **Manage knowledge and assess need**
- **Identify investment requirements and opportunities**
- **Influence provision to meet demand and secure outcomes**
- **Drive continuous innovation and improvement**
- **Deploy procurement skills to ensure appropriate contracts**
- **Manage finances**

The Commissioning Cycle





Commissioning Diagnostic Services

four stages of commissioning

I assess health care need

- and expected outcomes

II specify services required

- and resource requirement

III secure services

- and practice change including resource allocations

IV monitor and evaluate outcomes

- including resource allocations

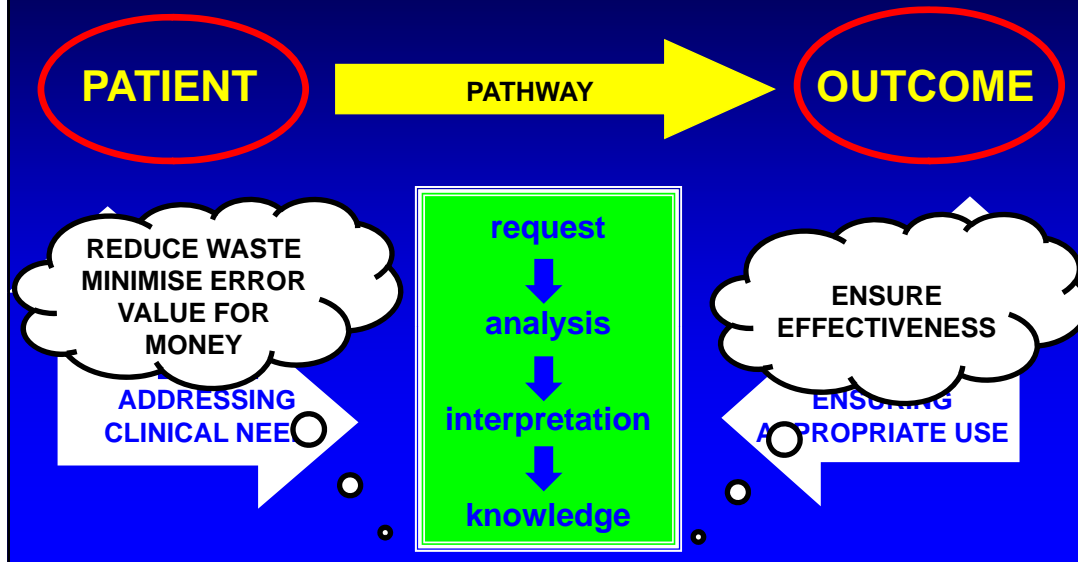
Improving Quality of Patient Care

impact of laboratory medicine on outcomes

- **Safe** – avoiding harm
- **Patient centred** – respecting needs and values
- **Timely** – minimising delays
- **Efficient** – avoiding waste
- **Equitable** – equal quality
- **Effective** – evidence-based outcomes

Institute of Medicine 2001

What are We Commissioning? an end-to-end service?



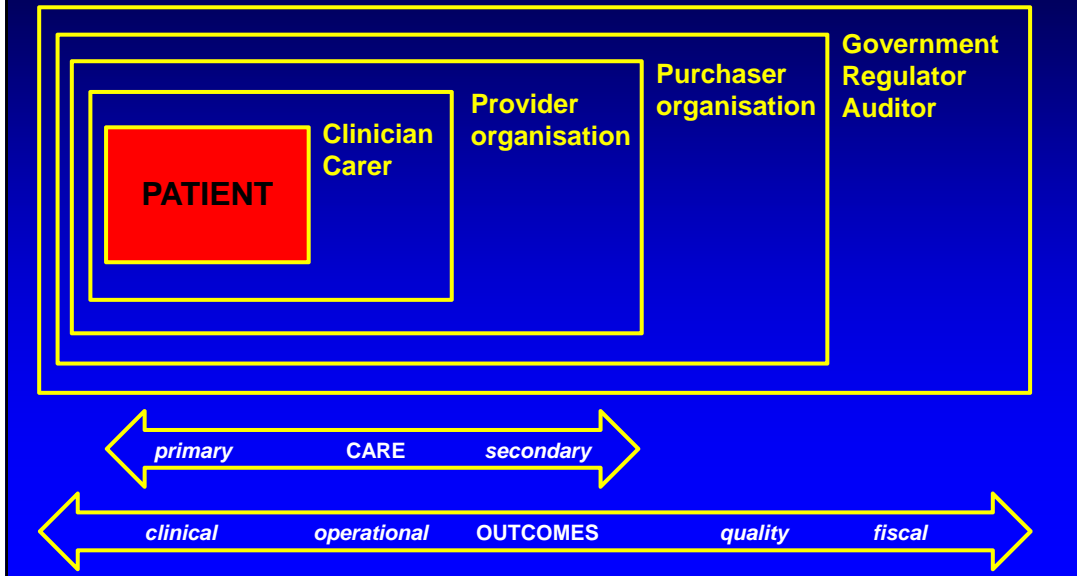
Assessing Quality in Health Care evaluating the use of a new test

LABORATORY OR PATIENT CENTRIC?

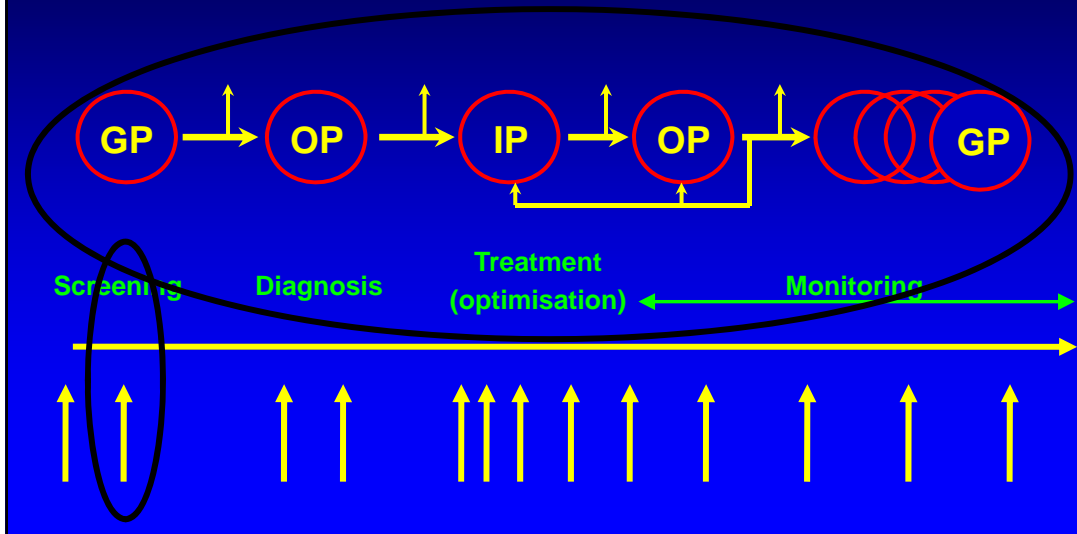
- *structure* - health system capacities
- *process* – assesses interaction between clinicians and patients
- *outcomes* – evidence about change in patients' health status

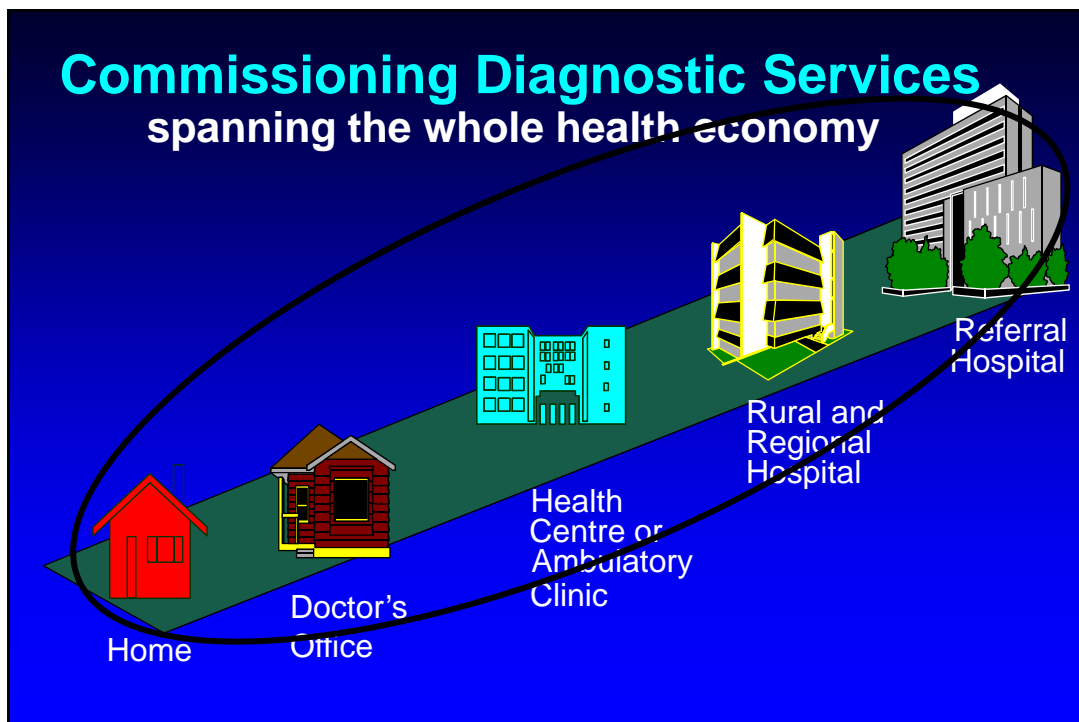
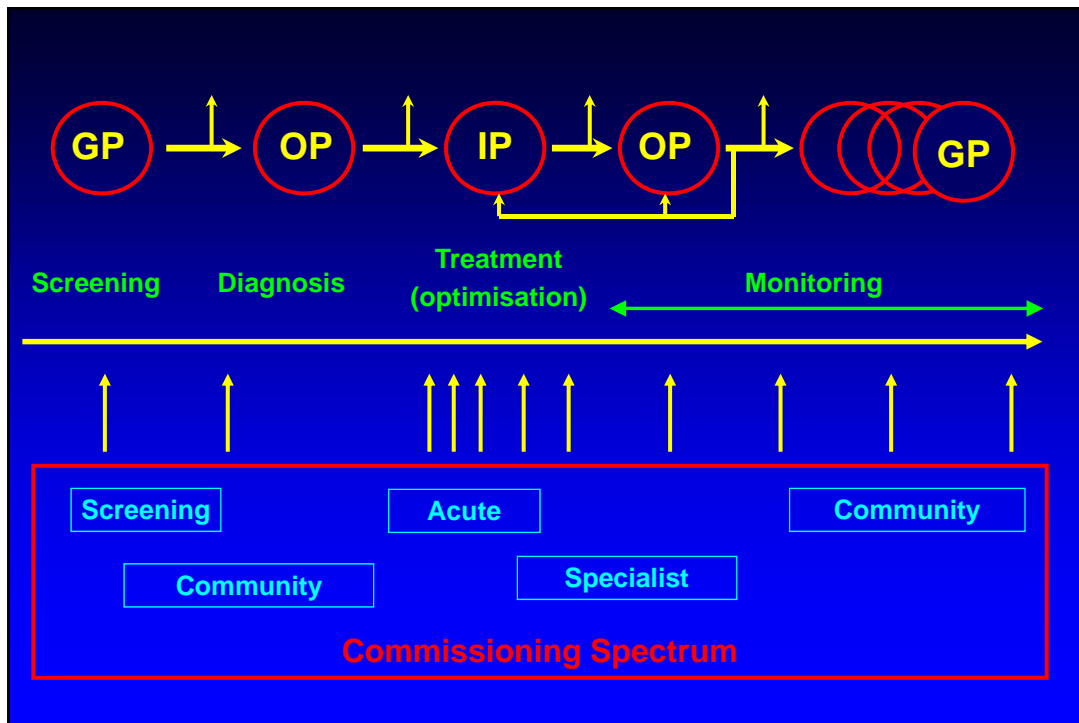
Resource Process Outcomes

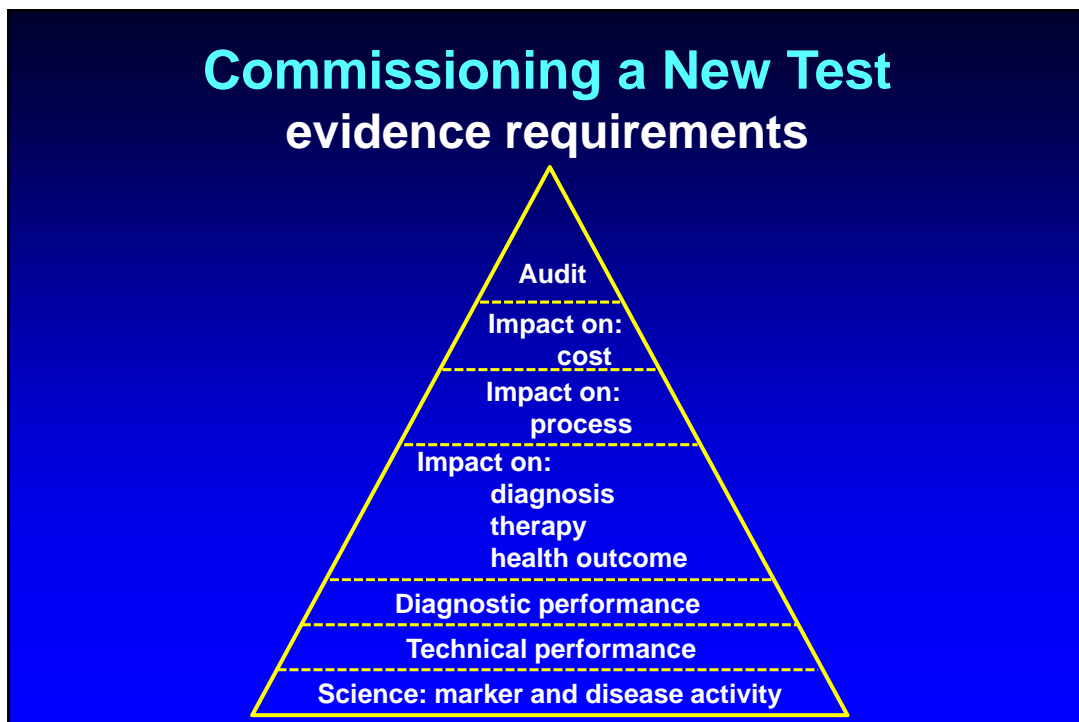
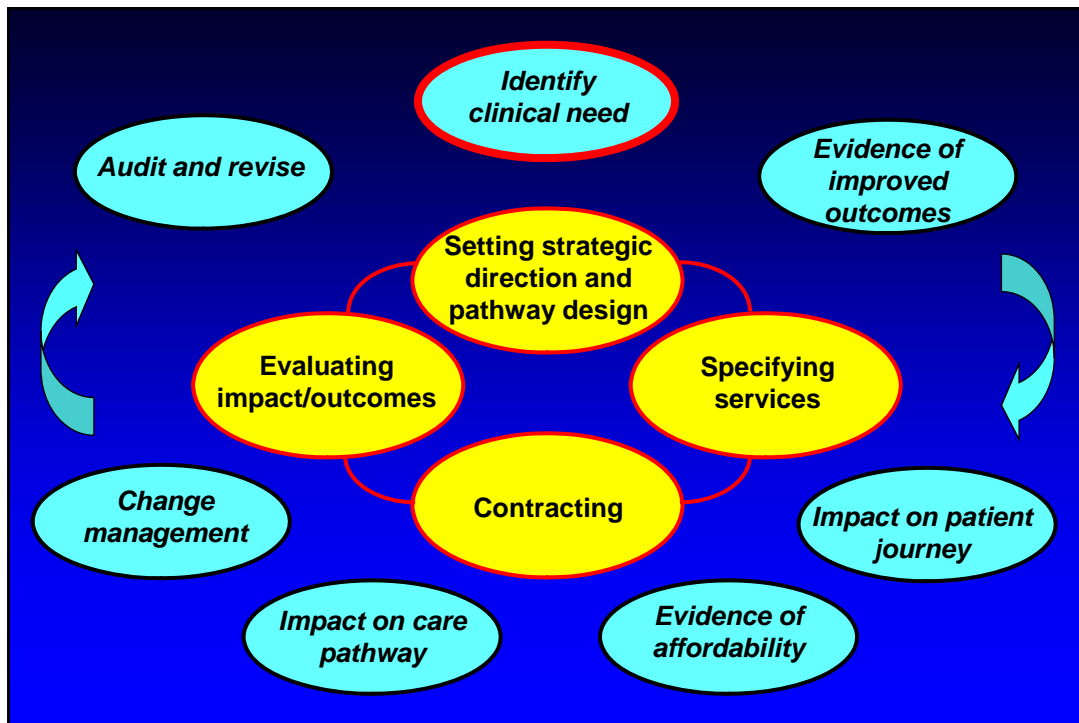
Commissioning a New Test stakeholders



Commissioning a Diagnostic Service focussing on the care pathway







Commissioning a New Test **the business case questions**

- **Is the test any good?**
- **Why do you want the test?**
- **What will you do with the result?**
- **What decision will you make?**
- **What action will you take?**
- **What outcome would you expect?**
- **(What will be the cost?)**

Commissioning a New Test **the practical questions**

- **Research question (clinical need)?**
- **Test?**
- **Turnaround time?**
- **Decision?**
- **Action?**
- **Process change?**
- **Resource requirement..and disinvestment?**
- **Outcome expected?**

Commissioning Diagnostic Services new services e.g. a 'BNP service'

I assess health care need

- in primary care for diagnostic pathway triage

II specify services required

- central laboratory ± POCT, optimal provision

III secure services

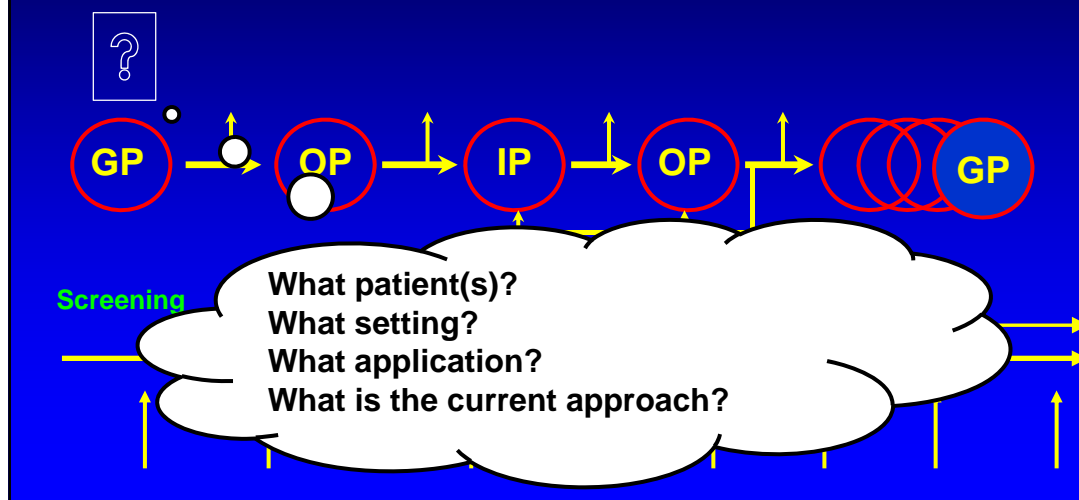
- specification and procurement exercise

IV monitor and evaluate outcomes

- prevalence, testing activity, echo usage, pathway

Asking Questions

I want to use BNP



Asking the Right Question

formulating an answerable question (PICO)

- **P**opulation
- **I**ndicator (test, intervention, etc)
- **C**omparator
- **O**utcome

Identifying the Unmet Need

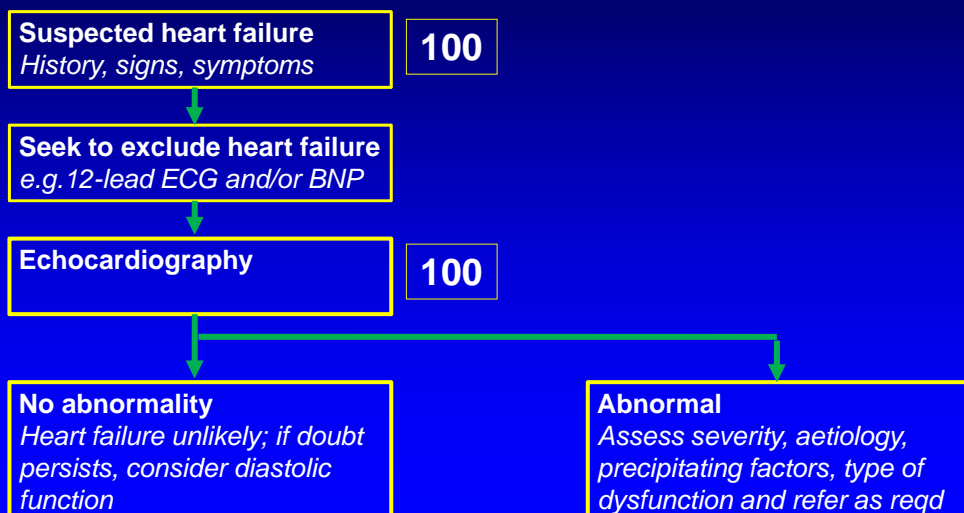
diagnostic triage in primary care

- **P** - breathless patients in primary care
- **I** - plasma BNP
- **C** - two cardiologists review
- **O** - 'rule-in' or 'rule-out' heart failure

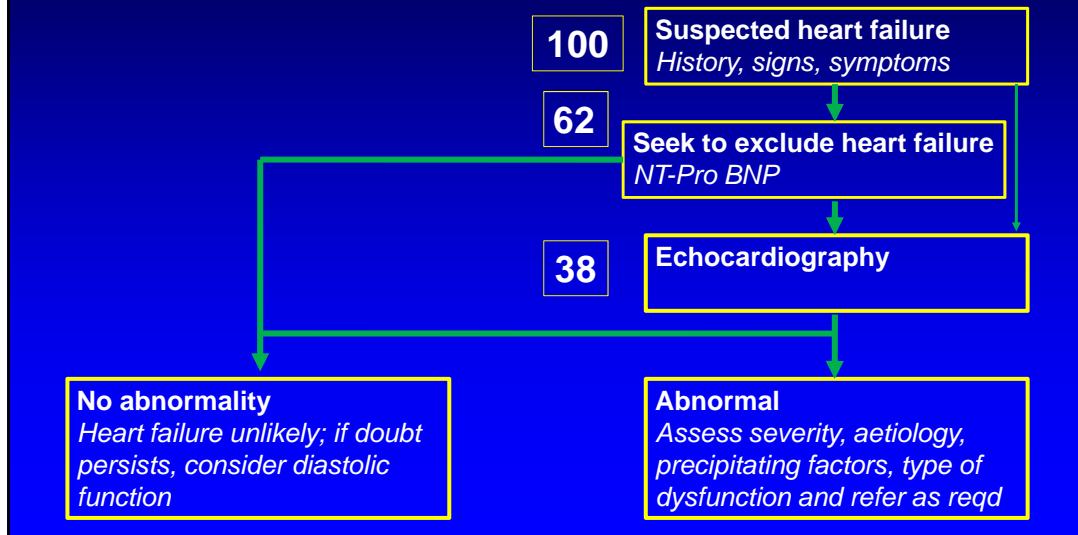
Identifying the Unmet Need guide therapy and health outcome

- **P** - patients with heart failure
- **I** - plasma BNP
- **C** - current clinical practice
- **O** - achieve target BNP value

Commissioning Natriuretic Peptides primary care business case (pre)



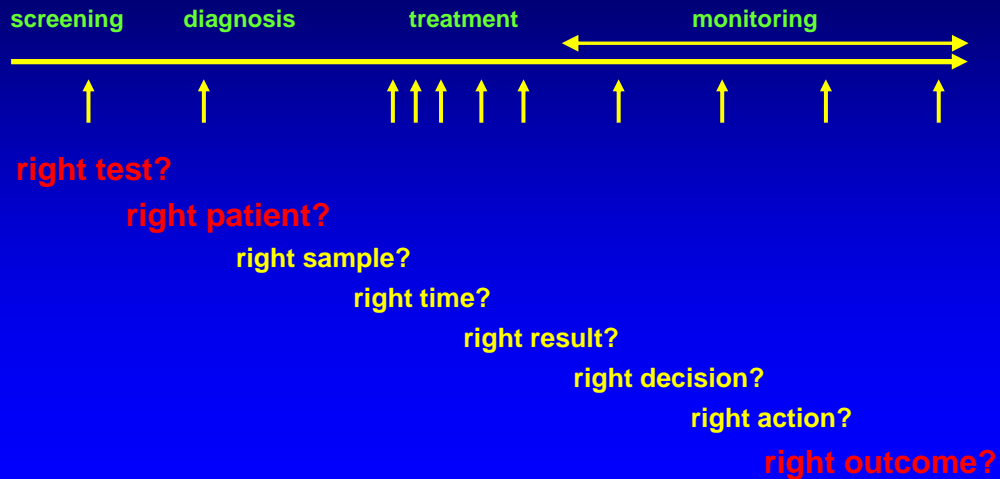
Commissioning Natriuretic Peptides primary care business case (post)



Commissioning a BNP Service expected outcomes in primary care

- **Earlier diagnosis**
- **More accurate diagnosis**
- **Reduced time to diagnosis**
- **Reduction in echocardiography requirement ($\approx 60\%$)**
- **Cost saving to each PCT £70K - £170K p.a.**

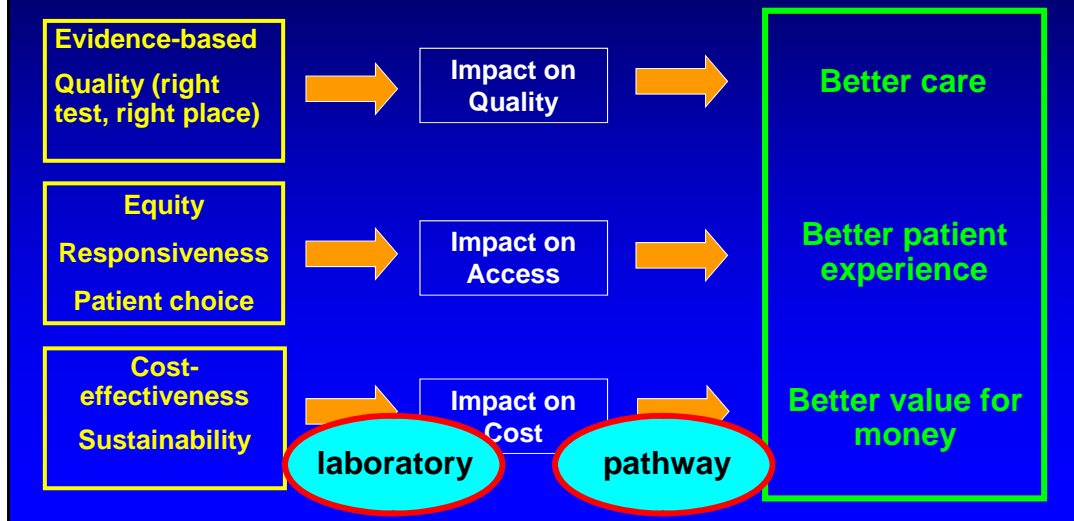
Quality Metrics and Diagnostic Services performance management



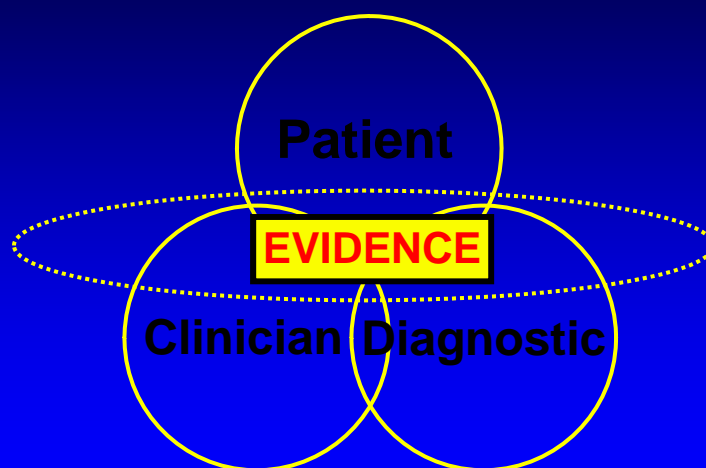
Commissioning a New Service performance management requirements

- Background information e.g. disease prevalence
- Test utilisation
- Decision making
- Diagnoses made (disease registry)
- Therapeutic intervention initiated
- Resource utilisation inc. disinvestment
- Clinical outcomes (morbidity, mortality, surrogates)

Laboratory Medicine what are we trying to achieve?



Commissioning Laboratory Services



THANKYOU