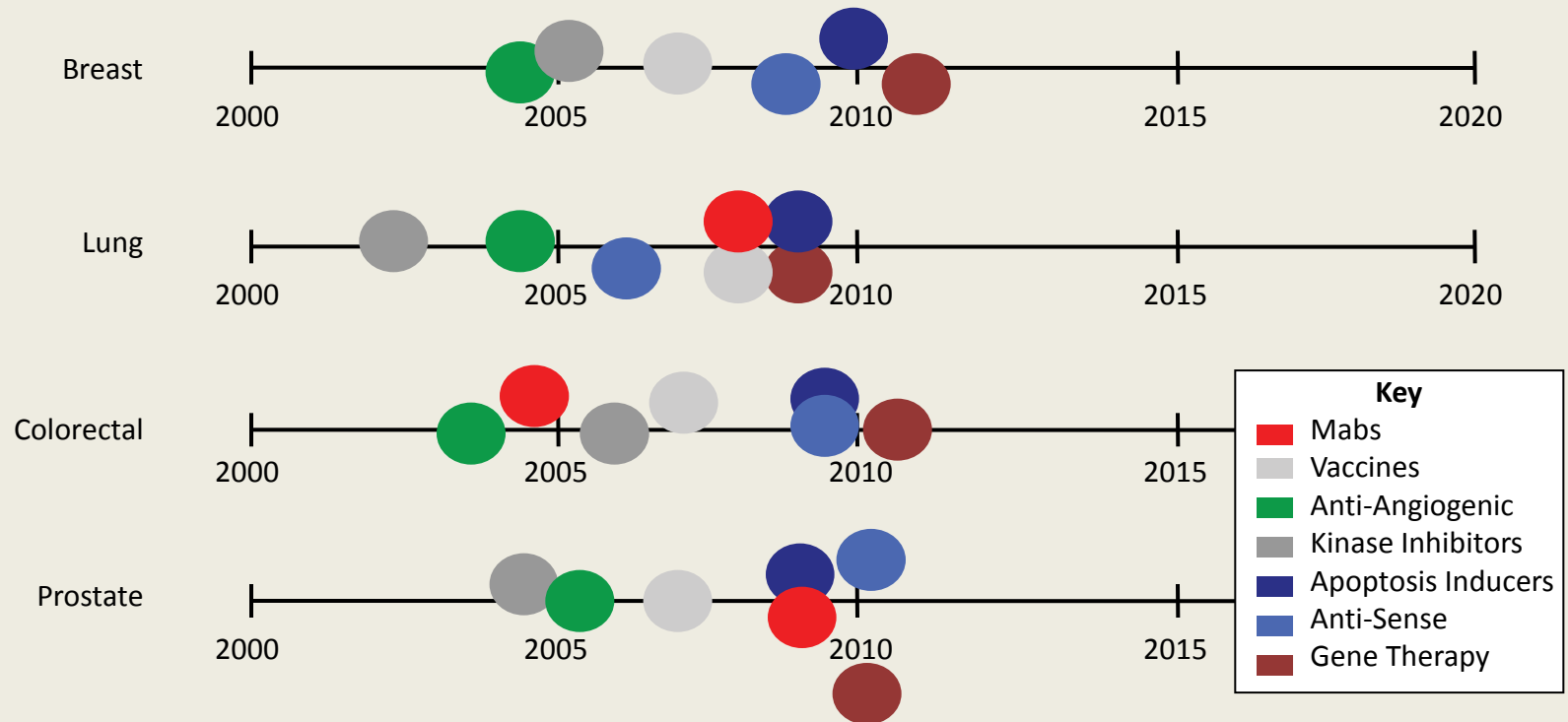


Key Issues in Haematology Commissioning

Professor Adrian Newland

Chair, The London Cancer New Drugs Group

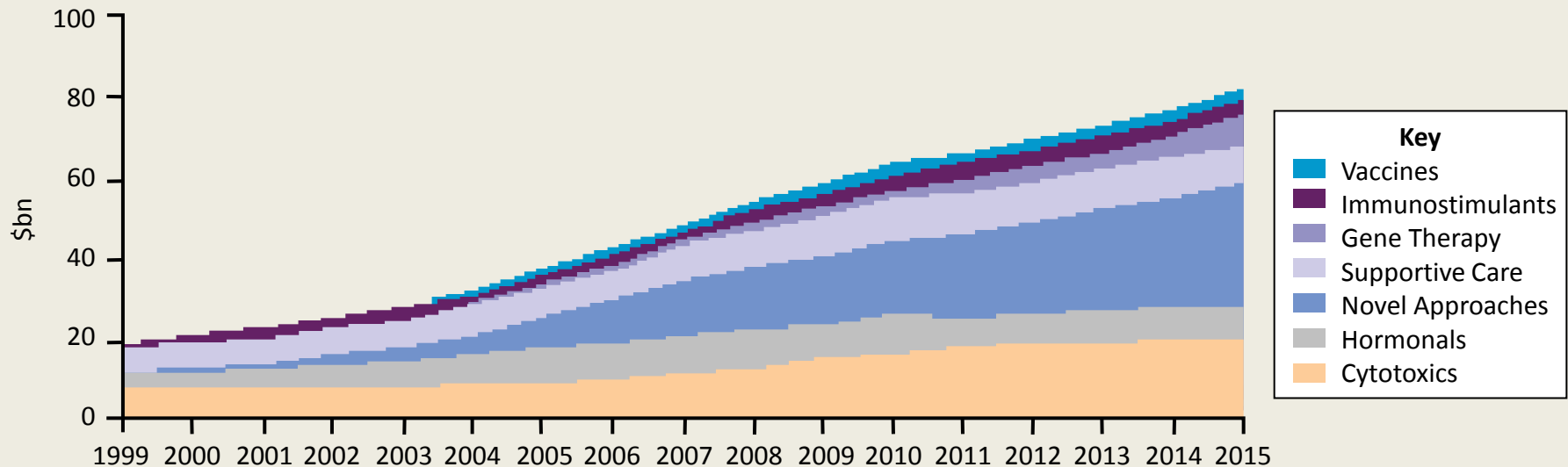
Launch date for molecular therapies in the USA



Cancer market tripled over last decade

McKinsey Consulting, New York

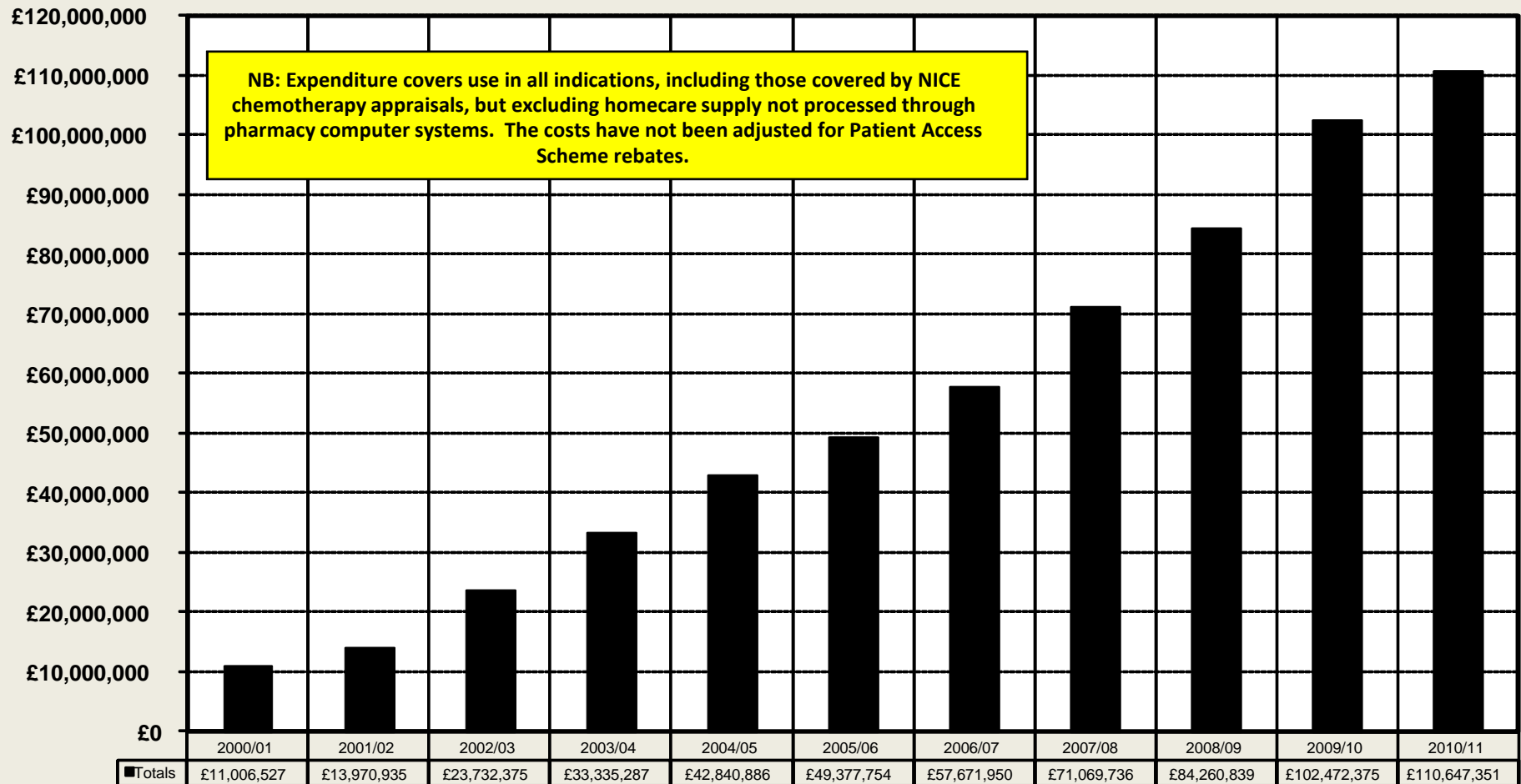
Global cancer market by sector



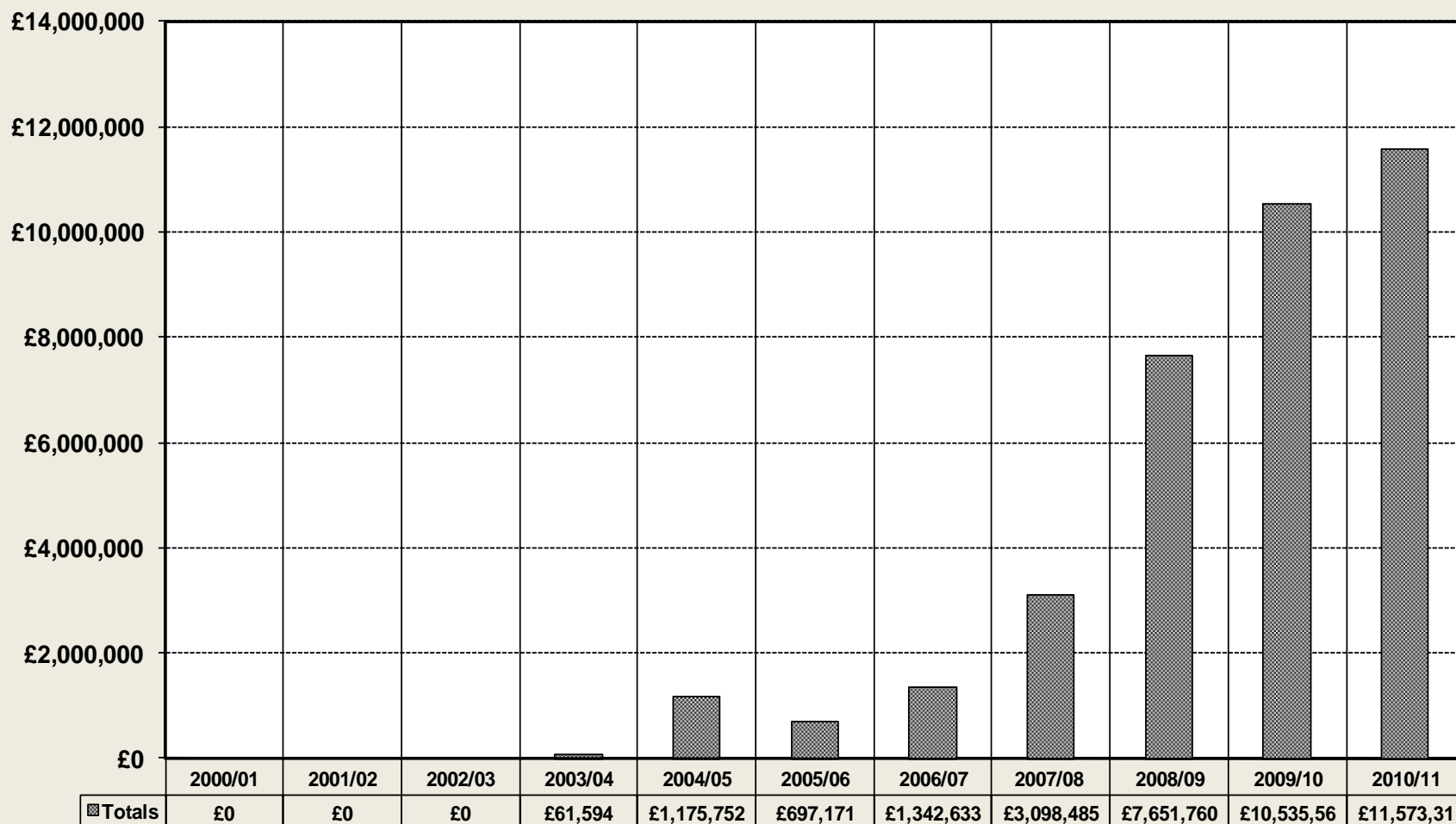
2010 sales \$64bn, CAGR 12% driven by:

- New technology – targeted therapies
- Earlier intervention
- Patient numbers (ageing population – other diseases controlled)

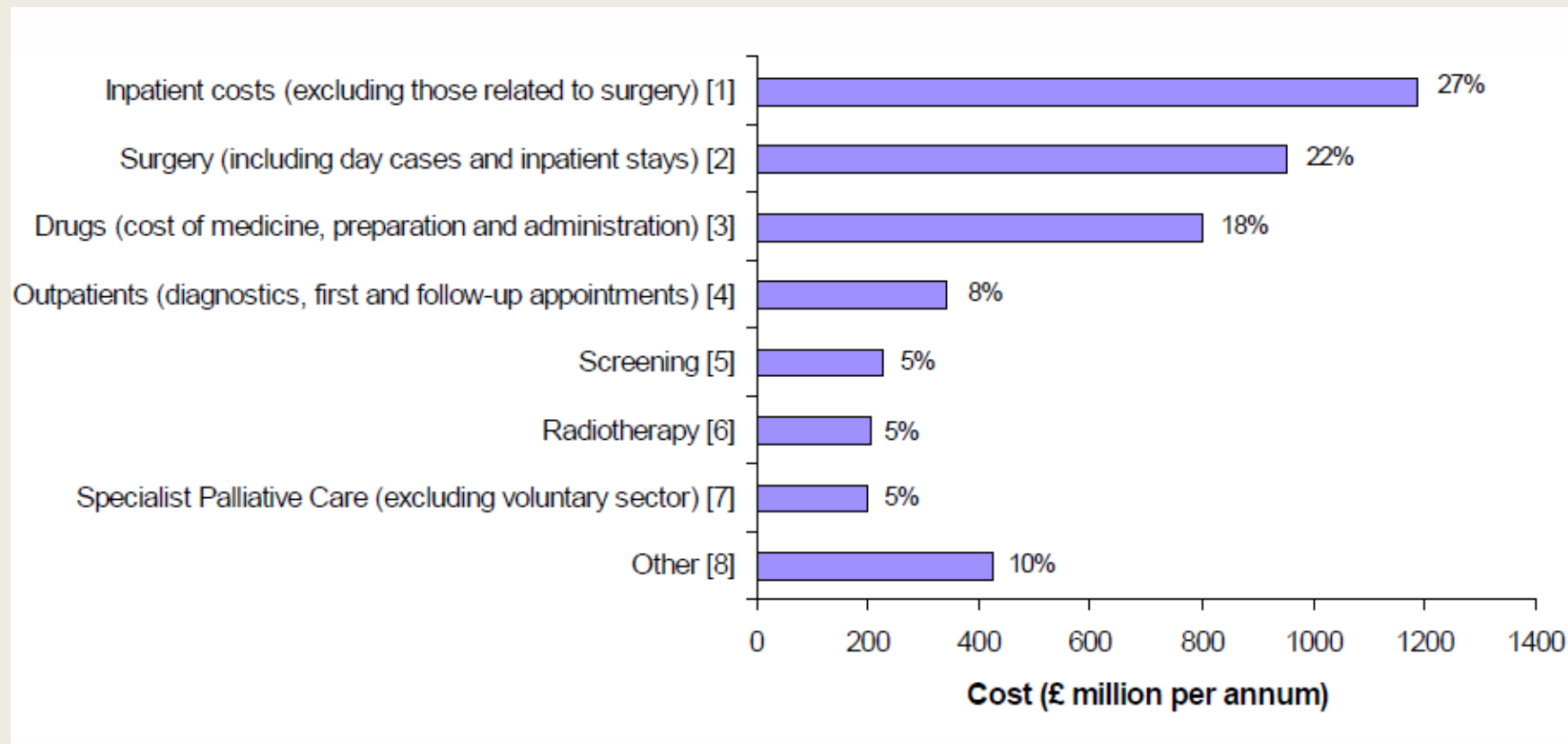
London Cancer Drugs Annual Expenditure Trends Drugs Covered by NICE Chemotherapy Appraisals



London Cancer Drugs Annual Expenditure Trends - Recently Licensed Drugs not covered by NICE Chemotherapy Appraisals

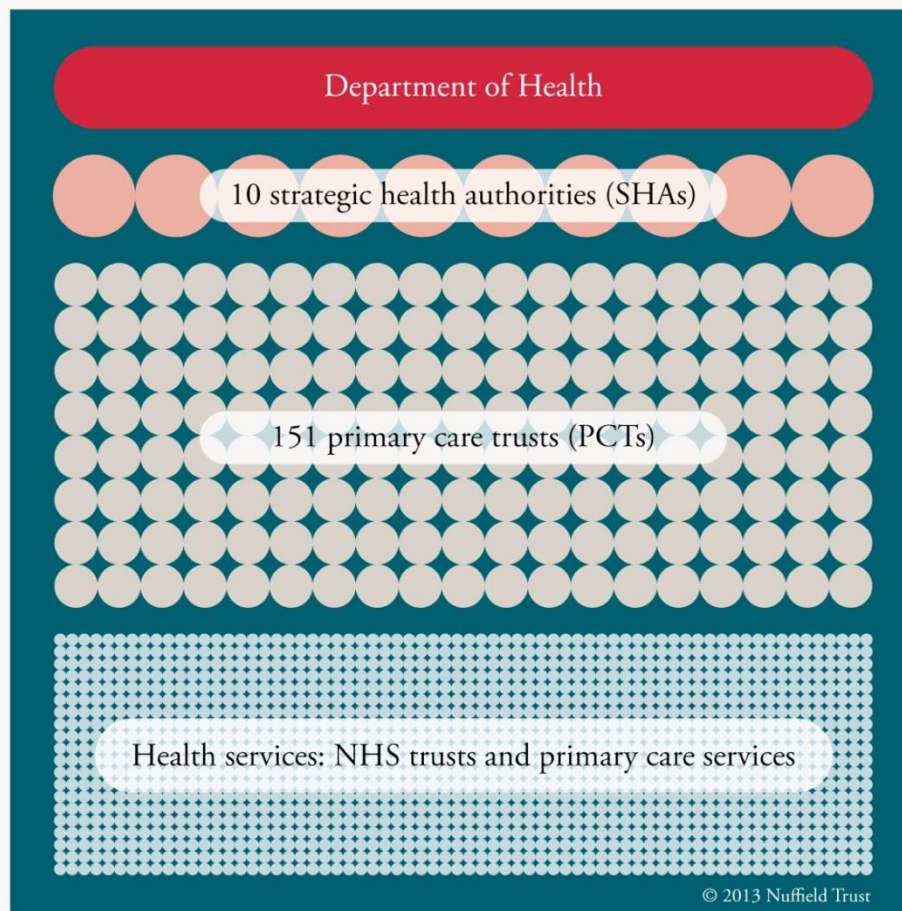


Cancer expenditure in England

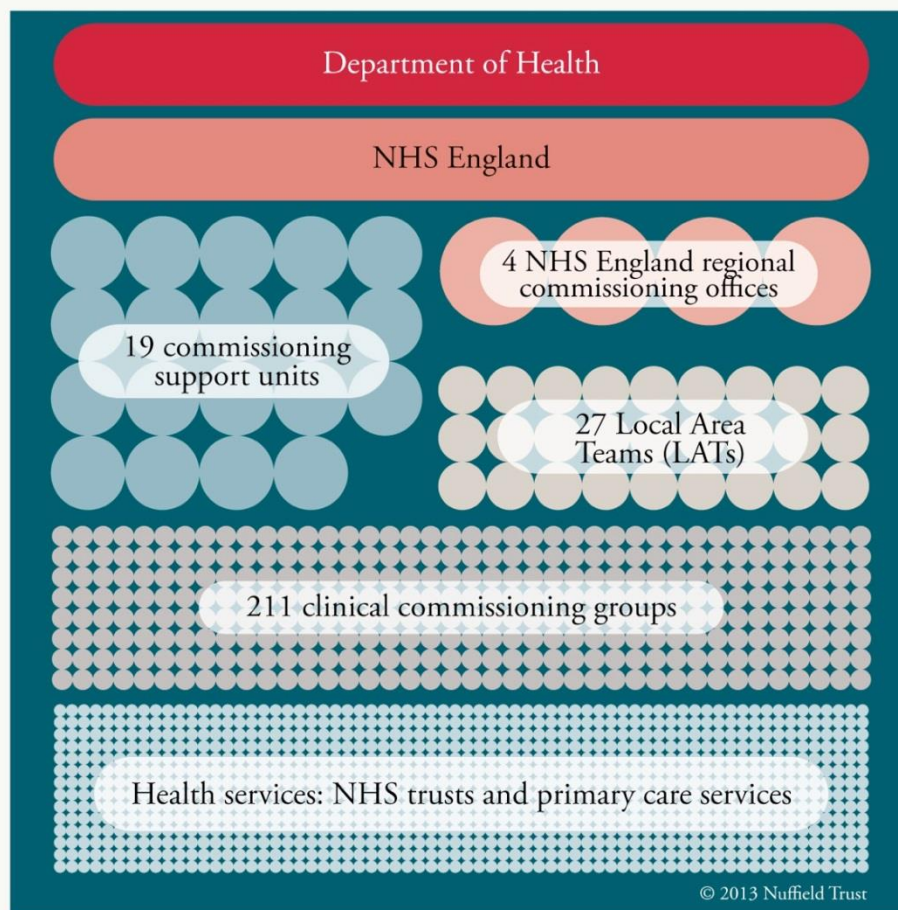


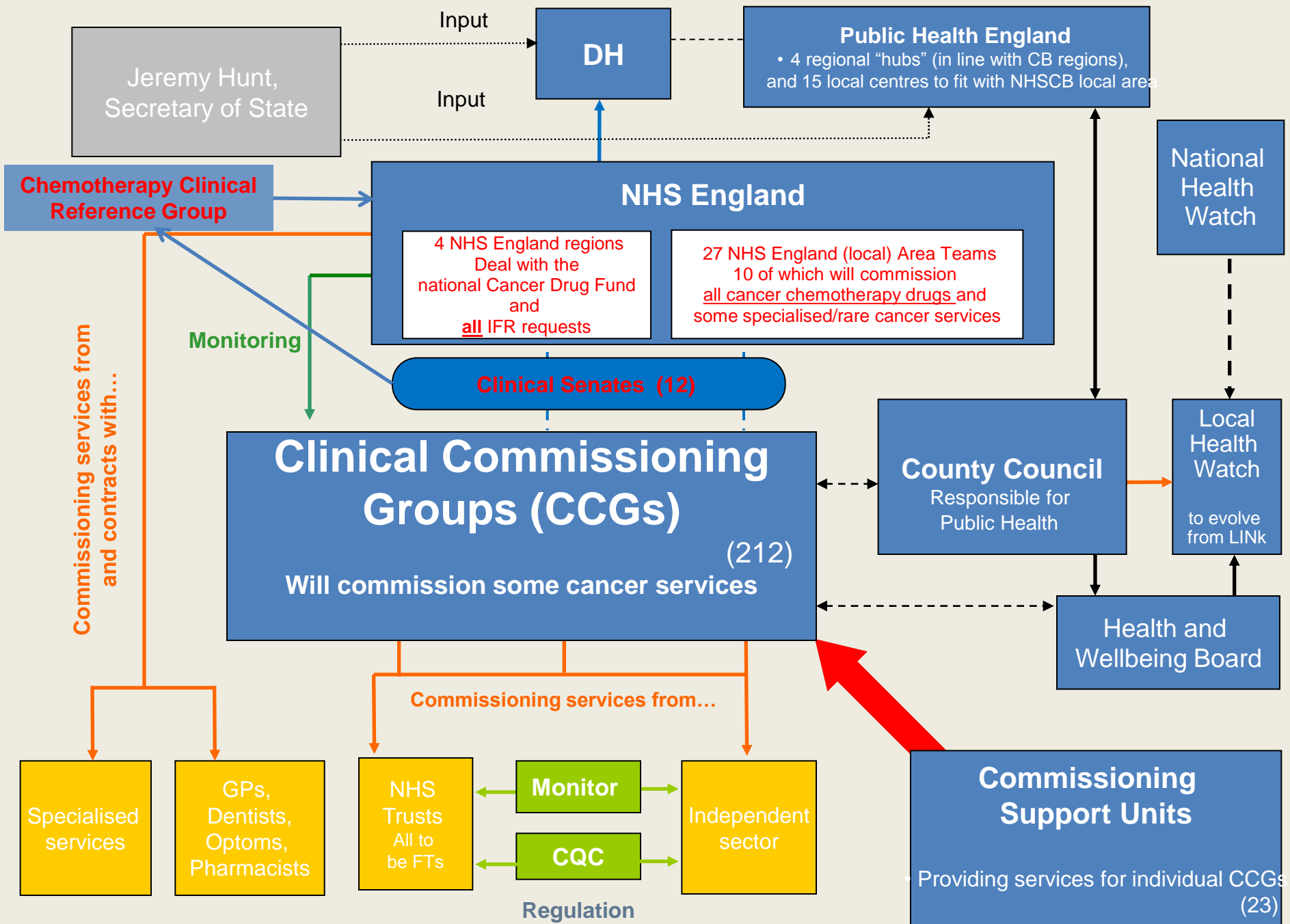
Total expenditure: around £4.35bn pa in England
Expenditure per head of population = £80
(compared with £121 in France and £143 in Germany)

The NHS in England before the reforms

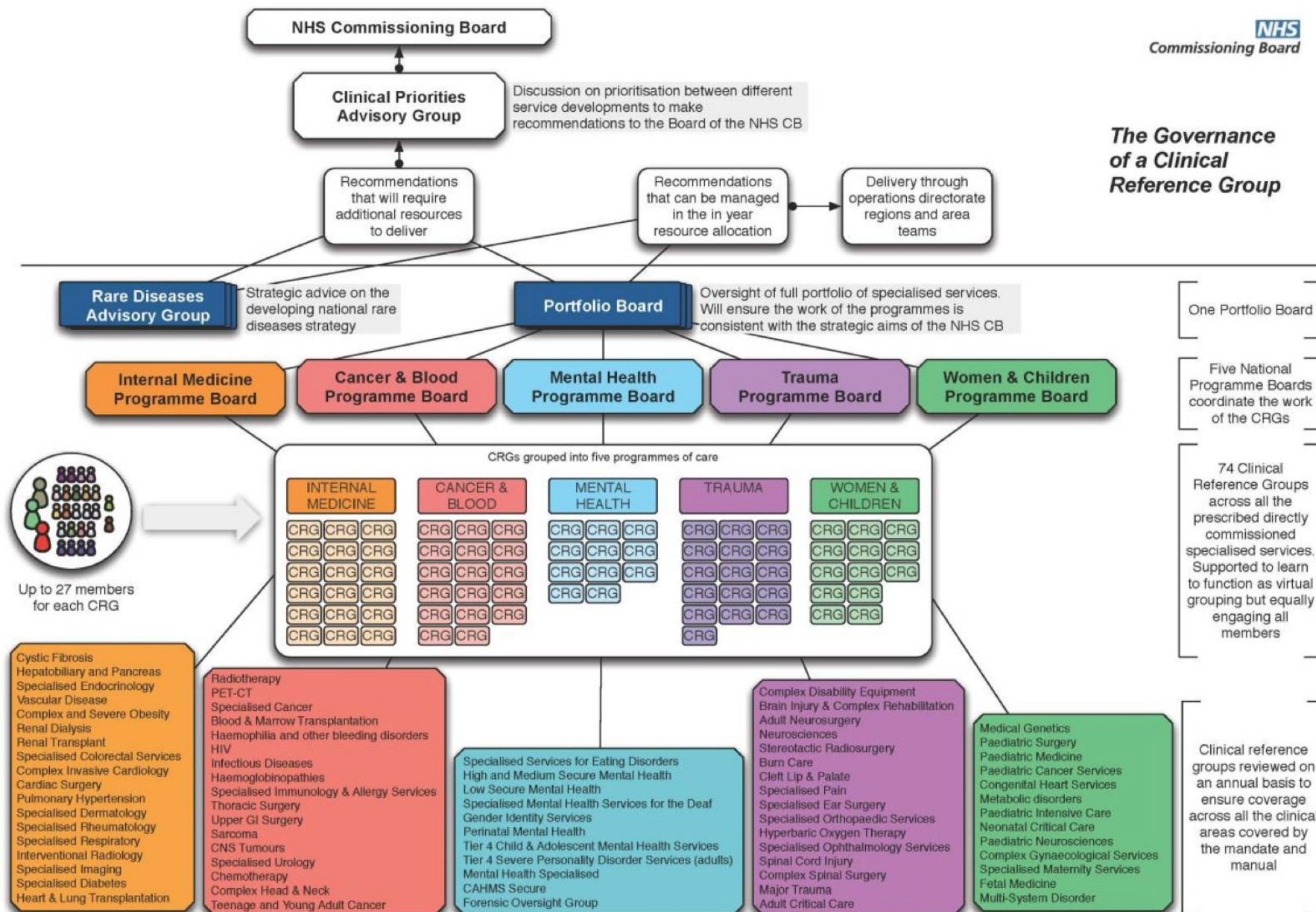


NHS April 2013 onwards





The Governance of a Clinical Reference Group



Pathway	Old Arrangement	New Arrangement	Notes
Awareness raising	PCT	Public Health	Although commissioned by PH, CCGs and NHS England are expected to support awareness campaigns as appropriate
Early detection (GP Referral)	PCT	NHS England	CCGs expected to manage and improve GP referrals as appropriate
Screening	PCT	Public Health through NHS England	GPs directly provide cervical screening (sample taking) and can support programmes in general by endorsing them , working with PH and encouraging patients to attend
Diagnostics	Mostly PCT, some Specialised Commissioning	CCG	
Surgery	Mostly PCT, some Specialised Commissioning	Mostly CCG , some NHS England	CCGs responsible for common cancers such as breast and colorectal. NHS England responsible for rare cancers such as brain and anal.
Chemotherapy	Mostly PCT, some Specialised Commissioning	NHS England	
Radiotherapy	Mostly PCT, some Specialised Commissioning	NHS England	
Living with and beyond cancer	PCT	CCG / NHS England collaboratively	Commissioning arrangements for this area need to be worked through with NHS England.

NHS Commissioning Board (2)

- **Specific functions**
- **CDF**
- **Chemotherapy**
- **Management of IFRs**
- **Oversight and Performance Management of High Secure Hospitals and Services**
- **Safe and Sustainable Programme.**
 - paediatric congenital heart surgery
 - paediatric neurosurgery services
- **Safeguarding Rarity and Highly Specialised Services.**

Convergence

- 2012-13- transition year
 - To finalise future commissioning of chemotherapy
- Single prioritisation tool
- Convergence of CDF processes
- National audit & outcome data
- National list

Convergence...National list

[illegible]

Changes to the list (1)

- >150 to around 50 drugs/indications
- standard chemotherapy
 - funded by the NHSCB as a PbR exclusion and will become part of baseline chemotherapy commissioning
- not listed as standard chemotherapy (above) & not explicitly mentioned on the DH PbR exclusions list
 - will be included in tariffs already paid to provider Trusts and will therefore not be funded separately by the NHSCB
- poorly evidenced chemotherapy which will not routinely be funded by the CDF or NHSCB via any mechanism

Changes to the list (2)

National CDF cohort policy list will be regularly updated by the Clinical Reference Group for Chemotherapy as part of their horizon scanning process

For patients who have already received an approved CDF application, prior to 1st April 2013, they will continue to receive funding from the CDF for as long as their consultant decides they are receiving a clinical benefit

Application/Notification process

- online, web based notification system
 - TBC in London, paper based in short term
- Form completed by consultant responsible for the patient's care, or a nominated senior doctor in their team.
 - Pt demographic details
 - confirming the clinical criteria for use,
 - Confirmation of patient consent to treatment.
 - The nhs.net details of the specialist cancer pharmacist within the provider Trust
 - NHS.net ONLY

Chemotherapy Funding

- From April 2013;
 - All chemotherapy commissioned by NHS England via 10 of the 27 (Local) Area Teams
 - Provider-based allocation of funding
 - Delivery Tariffs will be mandatory from April 2013
 - Five bands based on resources required to deliver the drug(s). Reflects nurse & chair time
 - Procurement Tariffs expected in 2014
 - Ten (+?) bands based upon national reference costs. To include pharmacy & preparation costs.

Chemotherapy Funding

Status	Adult / Paed	Regimen Name (Dataset short version)	Regimen name (Long version)	Component Drug name	Proc. OPCS	Proc. HRG	Delivery OPCS	Delivery HRG	Usual Cycle Length
Existing	Adult	AC	AC	Cyclophosphamide	X70.2	SB02Z	X72.3	SB12Z	21 days
	Adult	AC	AC	Doxorubicin	X70.2	SB02Z	X72.3	SB12Z	21 days

HRG Code	HRG Name	Tariff (£) Per Episode
SB11Z	Deliver exclusively oral chemotherapy	128
SB12Z	Deliver simple parenteral chemotherapy at first attendance	161
SB13Z	Deliver complex parenteral chemotherapy at first attendance	321
SB14Z	Deliver complex parenteral chemotherapy with a prolonged infusion at first attendance	482
SB15Z	Deliver subsequent elements of a chemotherapy cycle	321
SB17Z	Deliver Chemotherapy for regimens not on the National List	

CDF Post April 2013

- Single national allocation of funding
- Single national list of drugs (27) & indications (64)
- Provider-based allocation of funding
- National list based on cohort policies
- Access to the CDF for drugs covered by a cohort policy would only be on a registration/notification basis (not an approval basis).
- Individual patient applications would be by exception and handled by a regional CDF clinical panel
- Single web based registration system with four operating points – one in each region

CDF Post April 2013

- Chemotherapy Clinical Reference Group
 - Many different baseline commissioning positions
 - Regular horizon scanning using London/North West Scoring Tool
 - Links to Clinical Senates
 - No early adopters?
 - Individual Cancer Drug Fund Requests (ICDFR)
 - ≥ 20 cases = cohort
 - Affordability & removal of existing drugs
 -but remember, no activity costs allowed

CDF Post April 2013

- Drugs removed from CDF
 - Baseline commissioning (including NICE)
 - Included in HRG tariff
 - Removed from CDF altogether
- Audit & Finance
 - $\leq 10\%$ patients never commence treatment
 - Actual spend approximately 60% of predicted

Future Cancer Drug Commissioning

- Chemotherapy Tariffs
 - Delivery Tariffs 2013
 - Procurement Tariffs 2014
- Chemotherapy Closer to Home
- Centralised Cancer Drug Commissioning
 - NHS England (NCB)
 - Chemotherapy Clinical Reference Group
 - Standard Service Specification B3L – Adult SACT
- Value Based Pricing
 - Not retrospective
 - ‘Blockbusters’ - 18/year maximum
 - Across all therapeutic areas?

QIPP

- Cancer services need to make a contribution to the £20billion NHS savings required
- Reducing unnecessary admission and reducing length of stay will improve quality and productivity
- While at the same time, improving early diagnosis, reducing premature deaths, improving QoL and enhancing end-of-life care
- Concentrate on prevention and screening

National QIPP workstreams

Urgent and emergency care
Primary care
Technology and digital vision
Procurement
End-of-life care
Productive care
Back office functions
Medicines use and procurement
Clinical support services
Right care
Safe care
Long term conditions

Innovation, Health and Wealth: promoting uptake of NICE guidance

- Support for adoption of NICE guidance
- Compliance regime and uptake metrics
- End to local duplication of NICE evaluation
- Support for the NICE scientific advice programme
- Targeted effort to implement diagnostic and treatment recommendations
- Immediate transfer of DH Innovative Technology Adoption and Procurement Programme (iTAPP) to NICE

Optimising medicines use will...

1. Improve outcomes
2. Deliver greater productivity
3. Potentially reduce whole system costs

Repositioning medicines

- Support better outcomes
- Support greater productivity
- Support/require workforce re-design
- Supply chain
- Value-based pricing

Significant obstacles

- Cultural – Doctor knows best and passive consumers
- Fear of the unknown and belief in current system
- Silos and funding
- Truly cash releasing?
- Scepticism about partnership working

What are the barriers to adopting innovation?

- Perverse incentives
 - Trusts lose income
 - Solution to share efficiencies across the LHE
 - * Integrated Cancer Systems in London
- UK slow adopters (compared to Europe) of innovation
 - * Thrombolytic therapy in MI

Why?

Why are some people not offered appropriate medicines?

- **People are not diagnosed**
 - 23% of newly diagnosed cancer patients come through A&E
- **Tests required by NICE are not done**
 - The need for EGFR testing outstrips the number done by 1.7
- **Varying access to specialist care**
 - 18% of those with glioma did not receive carmustine as not discussed at an MDM
- **Capacity to deliver is insufficient**
 - The rate of delivery of chemotherapy for lung cancer doubles if seen by a CNS
- **Commissioning is deficient**
 - Commissioners and providers argue over who should pay
- **Policies are variable**
 - The elderly with lung cancer do not receive chemotherapy as often as their condition warrants

Are there alternative biological therapies?

- Cloning human genetic material and development of *in vitro* biological production systems has allowed development of virtually any recombinant DNA-based biological substance for eventual development of a drug
- Monoclonal antibody technology combined with recombinant DNA technology has paved the way for tailor-made and targeted medicines
- Gene- and cell-based therapies are emerging as new approaches

Biosimilars

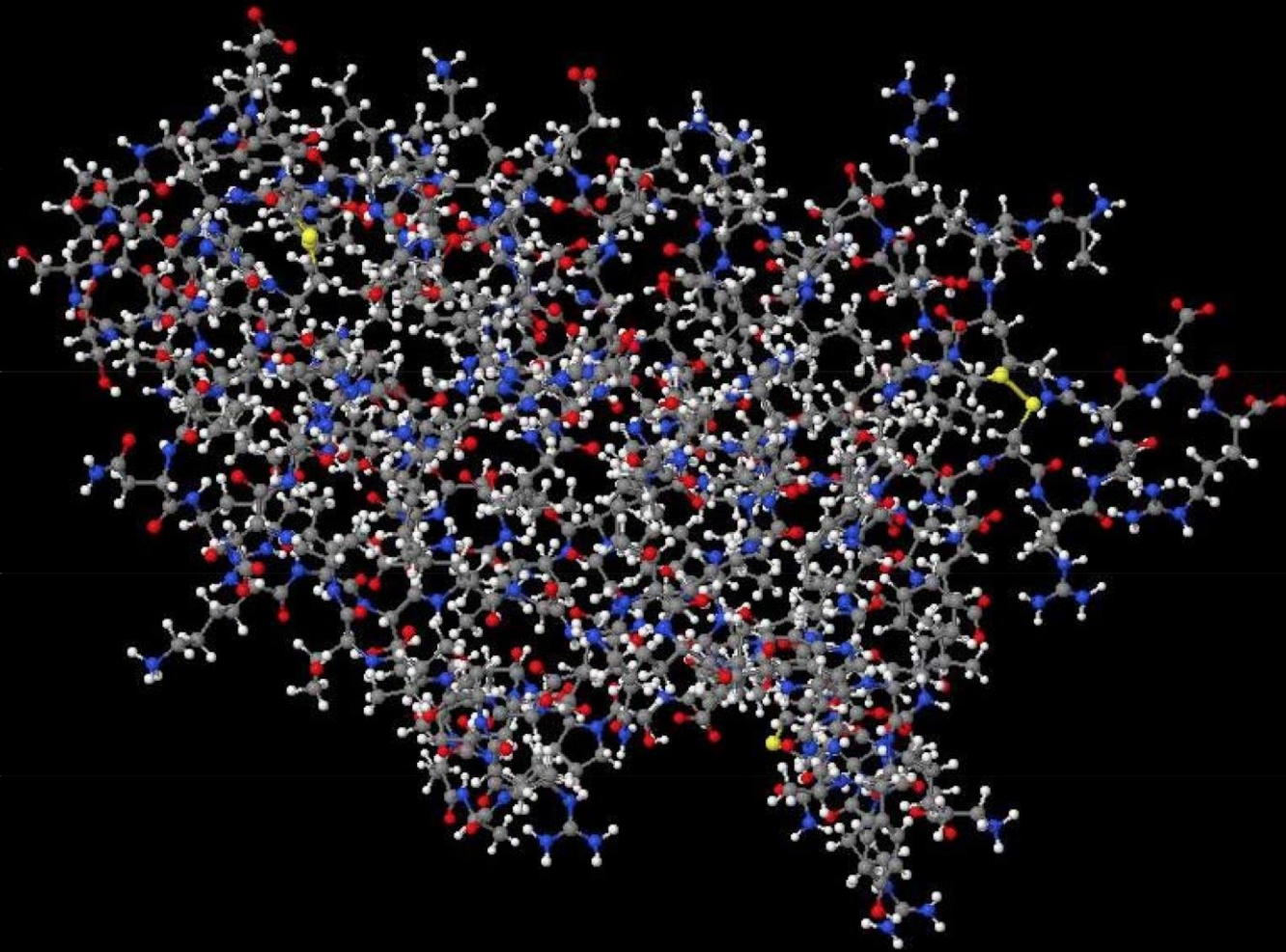
- Unlike small molecule drugs, biologics exhibit high molecular complexity
- Follow-on manufacturers do not have access to the original molecular clone or cell line, nor to the exact manufacturing process
- Structurally different – potential for differences in ADE* unlikely to be picked up pre-marketing
- Might therefore perform differently in terms of efficacy and safety

*ADE = Adverse Drug Events

Biosimilars

- After patent expiry of an approved biological agent any company can 'copy' and market these biologics (biosimilars) after regulatory scrutiny
- Biosimilars currently marketed include: –insulin, HGH, interferons, G-CSF, erythropoietins, etc
- Biosimilars are subject to a more detailed approval process than chemical generics but not as rigorous as for the originator product
- Clinical results must show similarity to the referenced biologic

epoetin



ranitidine



Size & complexity – small molecule drugs and biologics

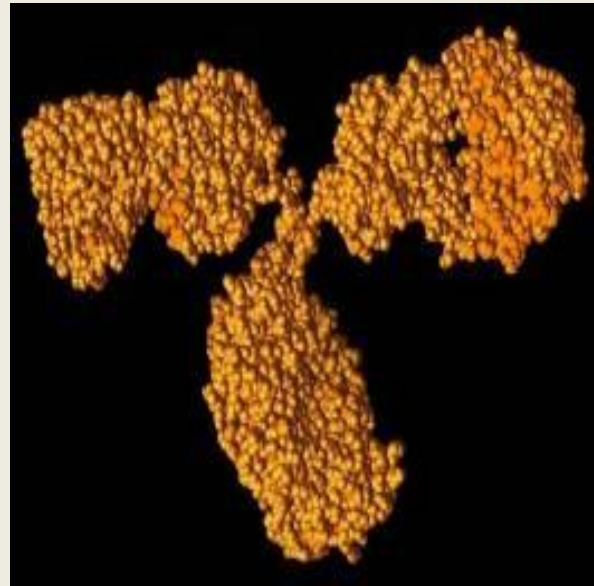
Aspirin
21 atoms



Human growth
hormone
(HGH)
~ 3,000 atoms



IgG antibody
~ 25,000 atoms



Biosimilars

- Complexity in development/manufacturing
Rituxan/Mabthera—biosimilar development suspended by both Samsung and Teva/Lonza. First entrant expected 2016
- Patient safety paramount:
 - Careful post-marketing surveillance
 - Further rationale for not considering a follow-on product to be interchangeable with an innovative product
- Traceability required to ensure interchangeability does not compromise safety
- EMA allows extrapolation e.g. data in RA extrapolated to NHL

Recommendations

- **Diagnosis:**

Test the quality of MDM decision making

- **Funding:**

Molecular tests should be commissioned by the CB

A new system for non-PbR excluded drugs needs to be introduced

- **Delivery:**

Expand the specialist nursing workforce

A viable Cancer Network system is needed

Summary

- There is no choice – greater productivity required to mitigate serious funding issues
- Need to reduce variation and move the mean
- There is a need to **create headroom** for true innovation
- Partnership working required between primary care, interface and secondary care – a serious challenge
- Good information systems and transparency of data
- There are no quick fixes
- Be fully informed about biosimilars and ensure traceability
- None of this happens without high quality medicines management