

Health Informatics

Systems, Organisations and Patient
Pathways

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Agenda

- **Introductions**

- **Patient Pathology Journey**

- Definitions
- Anaemia Pathway
- Competition
- Review

- **NHS Systems**

- GP, Hospital, Spine, Integration and Remuneration
- Competition
- Review

- **NHS Organisations**

- Trusts, Ethics, Regulation, National Bodies, Royal Colleges
- Competition
- Review

- **Course Summary**

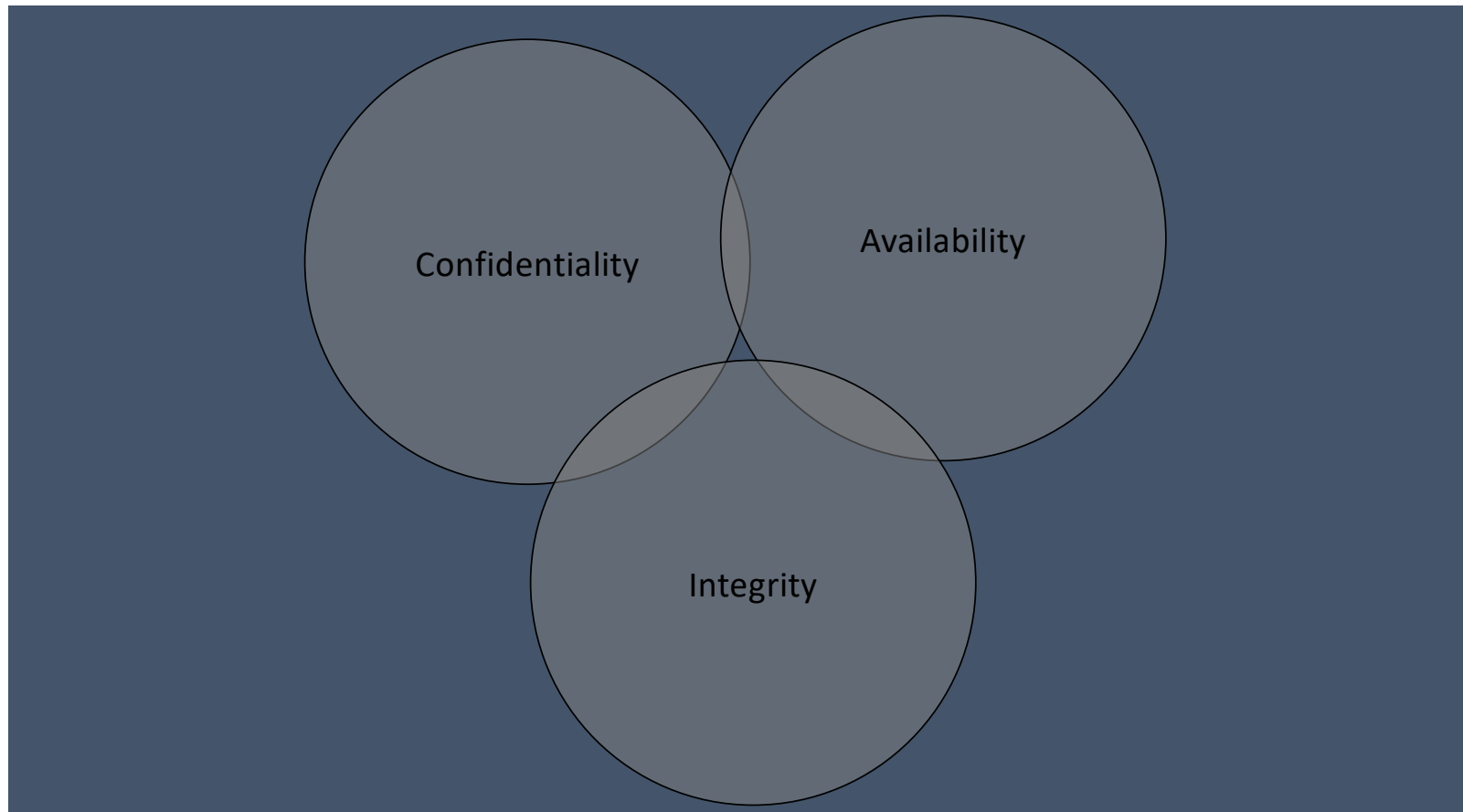
Care Settings



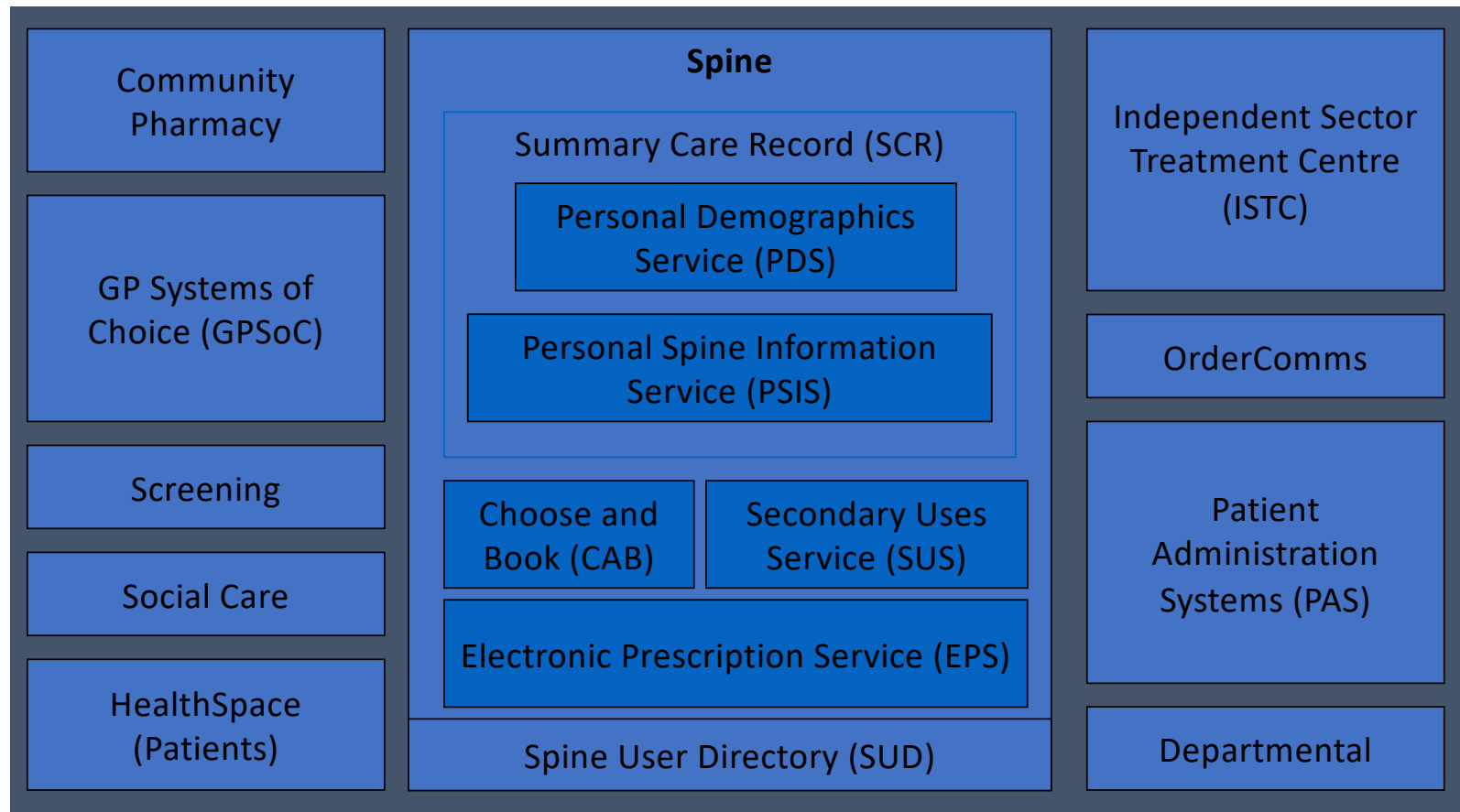
Organisations



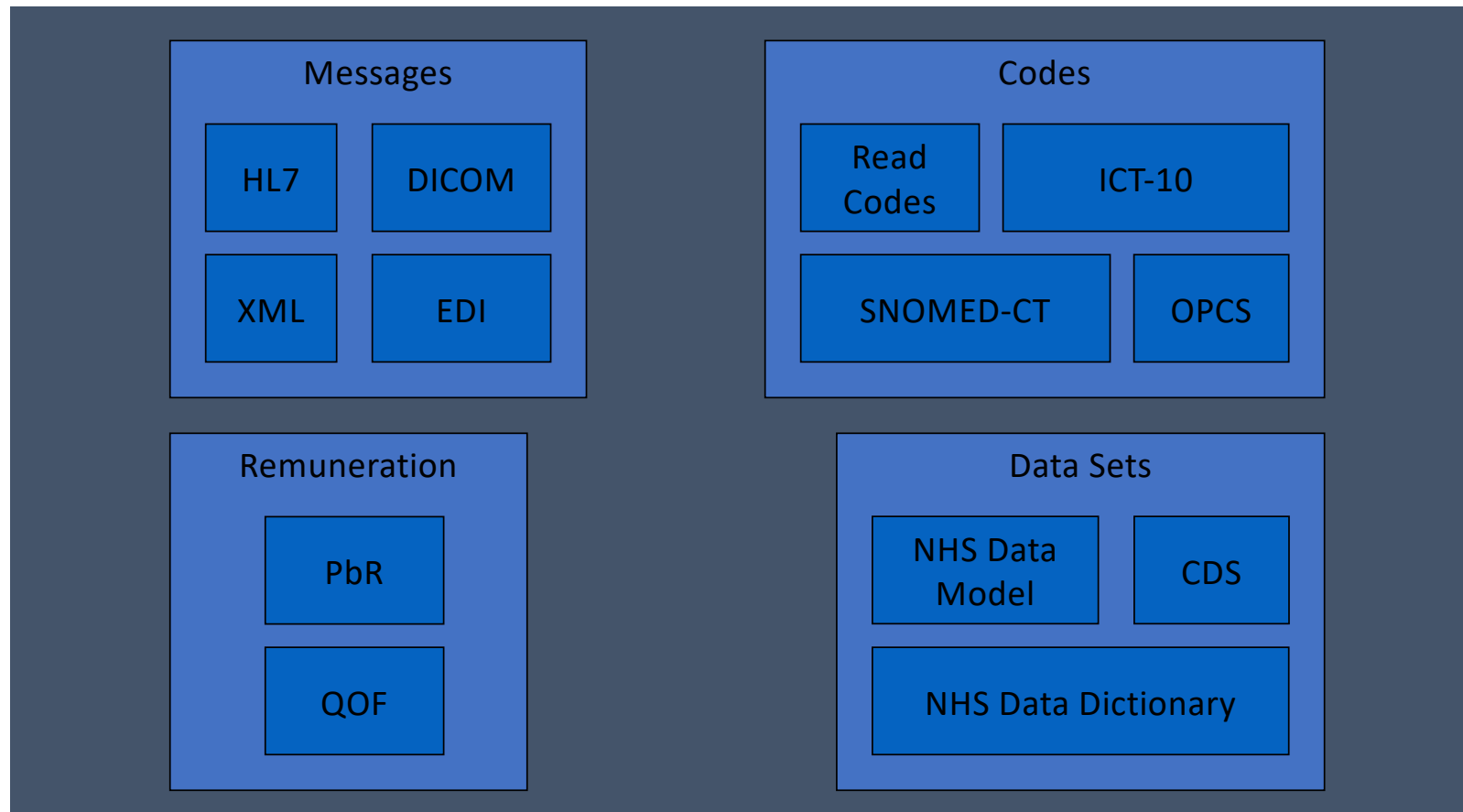
Information Governance



Systems



Data



HL7



HL7 RIM – Reference Information Model

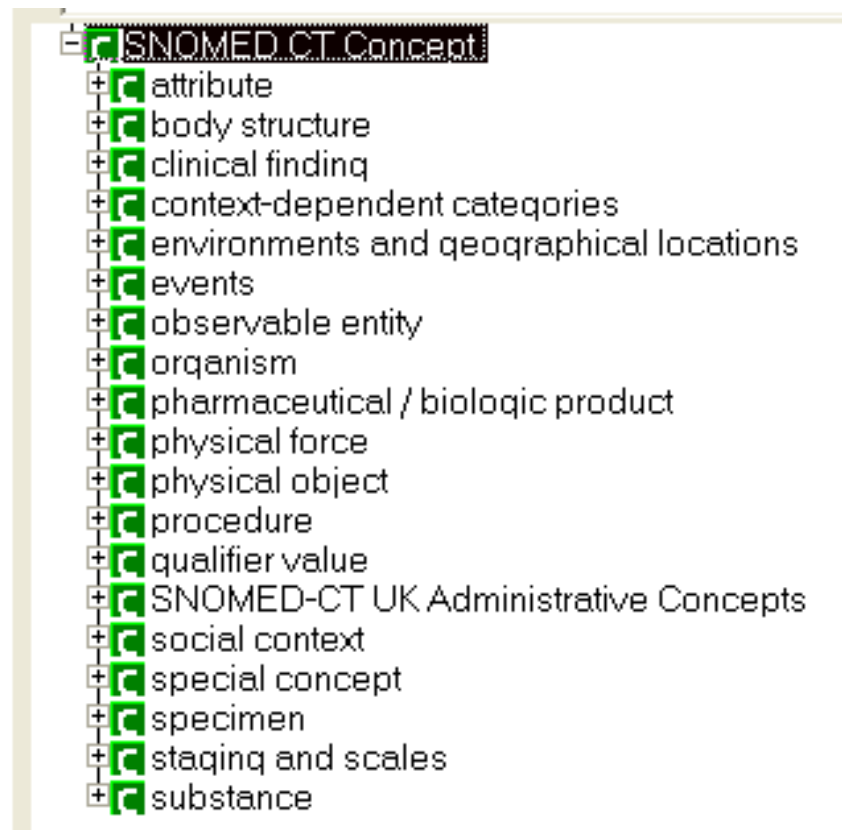
D-MIM (Domain Message Information Model), is a specialization of RIM

R-MIM (Refined Message Information Model) further specializes the D-MIM. It contains the message specific content and all its content is drawn from particular D-MIM in which it is used.

For example, Laboratory DMIM has two RMIMs: Result Event and Result Query.

CMETs (Common Message Element Types) are normally used in RMIMs classes to capture a common, valuable and reusable concept .

SNOMED-CT



Example: Apple RAST

FSN: malus sylvestris specific
IgE antibody measurement
(procedure)

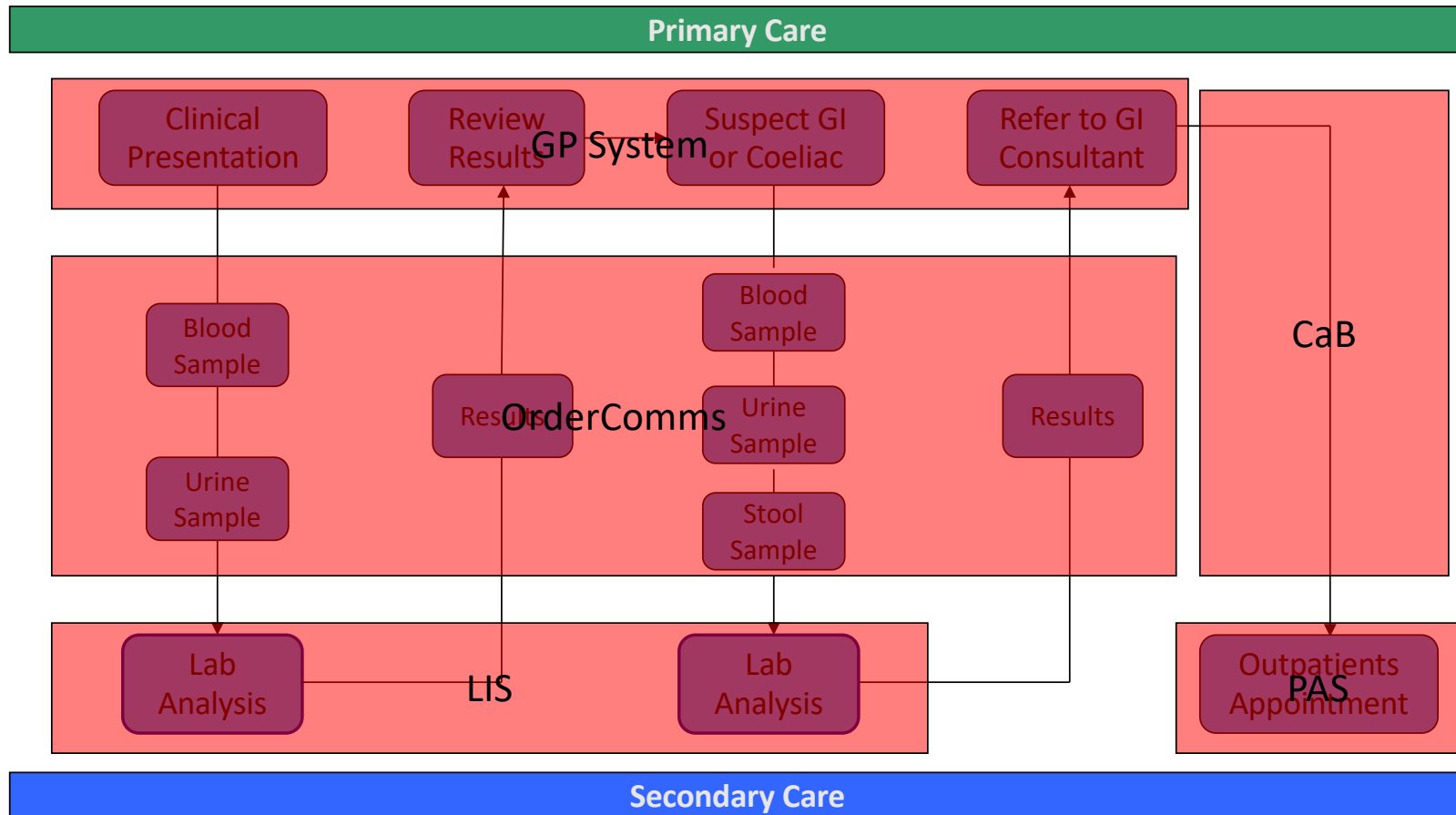
Preferred: apple RAST

Synonym: apple specific IgE
antibody measurement

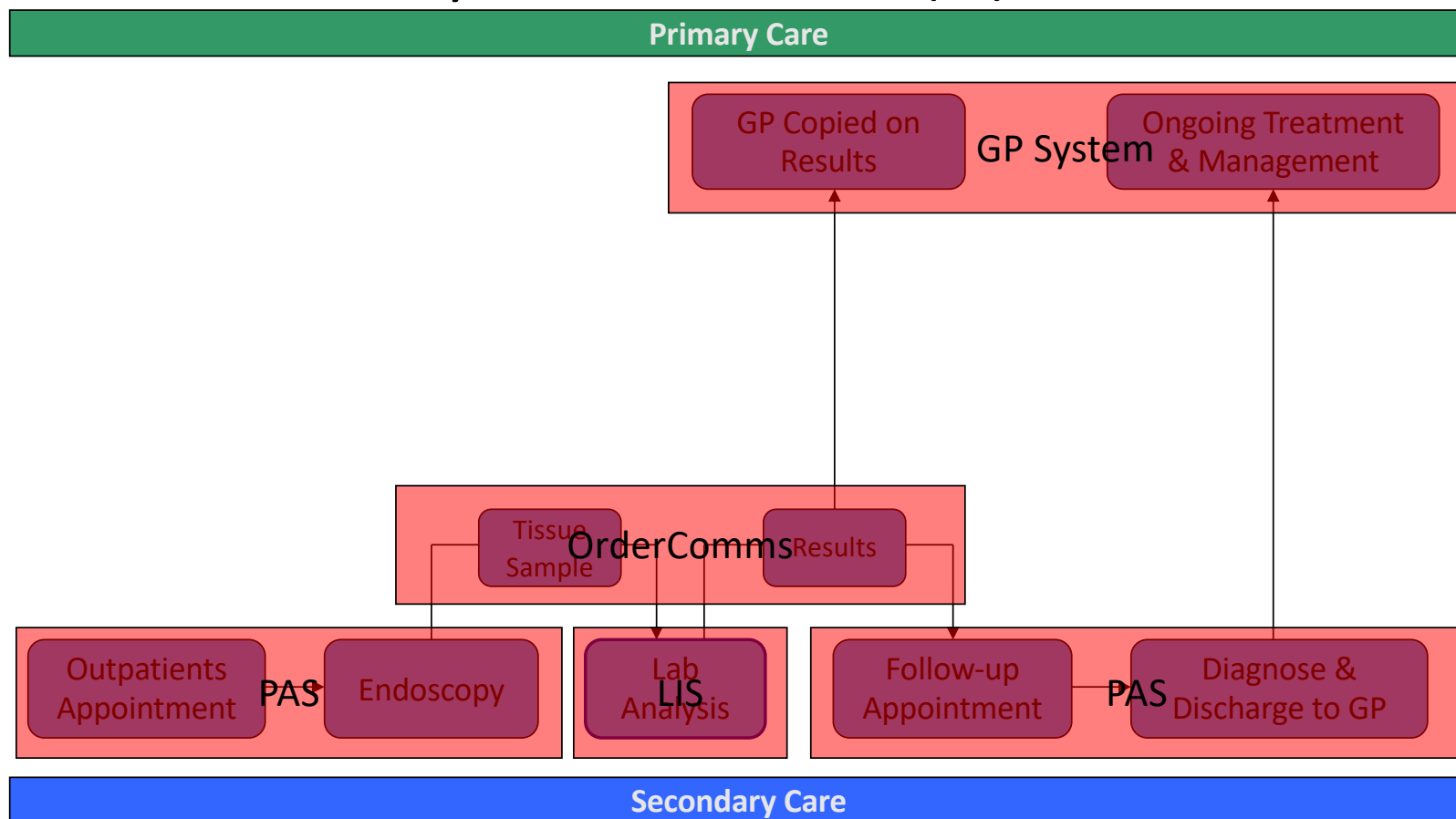
Synonym: malus sylvestris
specific IgE antibody
measurement

Synonym: f49 specific IgE
antibody measurement

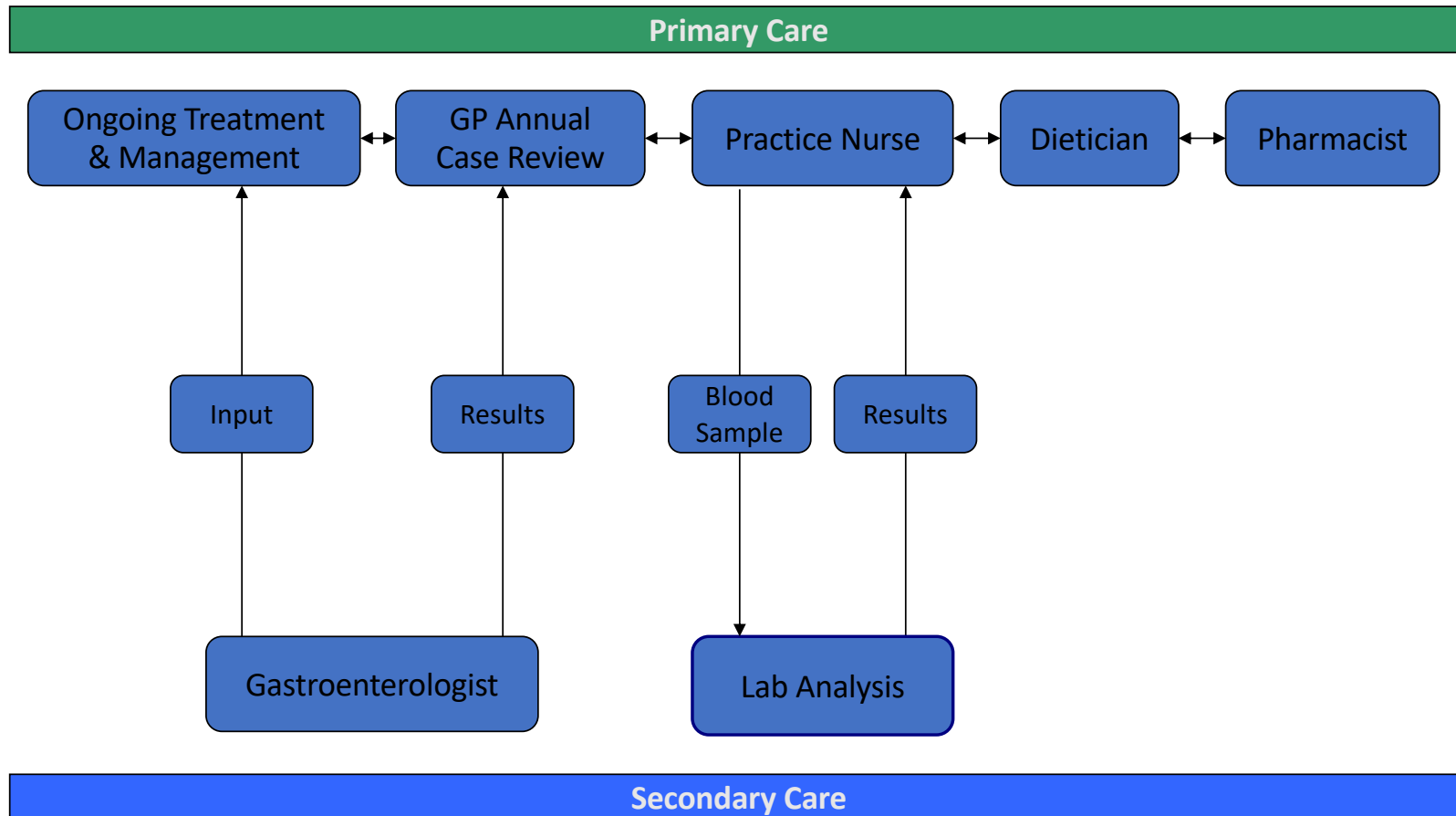
Patient Pathway – Anaemia (1)



Patient Pathway – Anaemia (2)



Patient Pathway – Anaemia (3)



Competition



Break



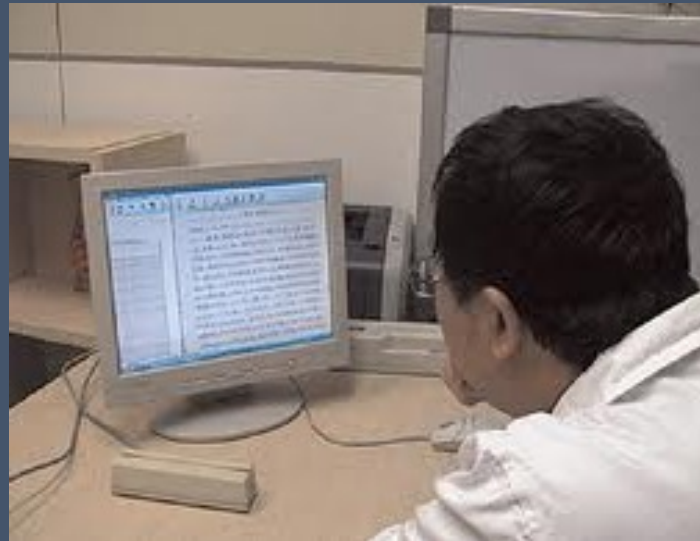
GP Systems

Practice Systems:

- ✓ EMIS
 - ✓ LV
 - ✓ PCS
 - ✓ Web
- ✓ TPP SystemOne
- ✓ inPS Vision
- ✓ Microtest

Spine Systems:

- ✓ Choose and Book
- ✓ GP2GP
- ✓ PDS
- ✓ Summary Care Record (SCR)



OrderComms:

- ✓ Sunquest ICE
- ✓ Indigo 4
- ✓ PAS Systems
- ✓ Lab Systems

Coding:

- ✓ Read Codes
- ✓ SNOMED-CT

Hospital Systems

PAS/EPR:

- ✓ Cerner Millennium
- ✓ iSOFT iPM/iCM and Lorenzo
- ✓ McKesson Star and TotalCare
- ✓ Oasis
- ✓ PAS
- ✓ EPR
- ✓ ADT

Spine Systems:

- ✓ Choose and Book
- ✓ PDS
- ✓ Summary Care Record (SCR)



Departmental:

- ✓ LIS/LIMS
- ✓ RIS/PACS
- ✓ Maternity
- ✓ A&E/ITU
- ✓ Cancer
- ✓ Renal

Integration:

- ✓ Integration Engine
- ✓ eGate
- ✓ BizTalk

Emergency Care Systems

Ambulance:

- ✓ Computer Aided Dispatch
- ✓ RESPOND-2
- ✓ Intergraph I/CAD
- ✓ ALERT 2000
- ✓ Patient Transport

Emergency Department (A&E):

- ✓ Stand Alone
- ✓ PAS Module
- ✓ Integrated
- ✓ Summary Care Record



Critical Care:

- ✓ ITU/ICU/HDU
- ✓ MAU/SAU
- ✓ Recovery
- ✓ Handheld Computers
- ✓ Point of Care Testing

Walk In/Phone:

- ✓ Walk-in Centres
- ✓ Out of Hours
- ✓ NHS 24/ NHS Direct

Community Systems

Neonatal/Paediatric:

- ✓Community Midwives
- ✓Health Visitors
- ✓School Nurses
- ✓Safeguarding

Adult:

- ✓District Nurses
- ✓Substance Misuse
- ✓Sexual Health



Care of the Elderly/Intermediate Tier:

- ✓Residential
- ✓Homecare

Telemedicine:

- ✓Rapid Response
- ✓Lifestyle Monitoring
- ✓Vitals
- ✓Out of Hours
- ✓NHS 24/ NHS Direct

Mental Health

Care Settings:

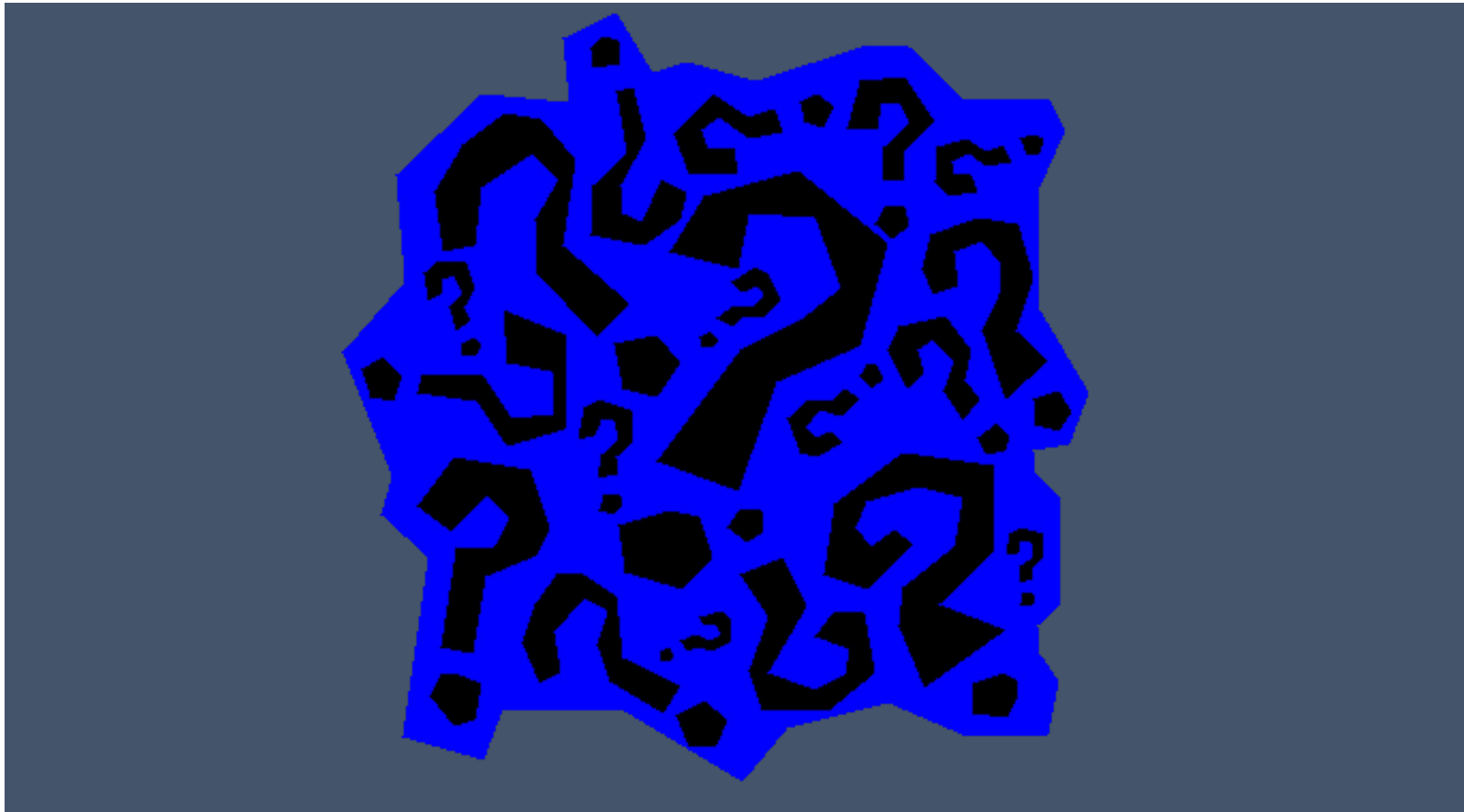
- ✓ Care in the Community
- ✓ Inpatients
- ✓ Secure Units

Special Considerations:

- ✓ Mental Health Act
- ✓ Safeguarding
- ✓ Court of Protection



Review/Q&A



Competition



Break



Health Informatics Organisations



Department of Health



- Objectives:
 - Better health and well-being for all: helping people stay healthy and well; empowering people to live independently; and tackling health inequalities.
 - Better care for all: the best possible health and social care that offers safe and effective care, when and where people need it; and empowering people in their choices.
 - Better value for all: delivering affordable, efficient and sustainable services; contributing to the wider economy and the nation.

Connecting for Health and NPfIT



The National Programme for IT is being reconfigured to reflect the changes described in the White Paper Equity and Excellence: Liberating the NHS and the outcome of the cross government review of ICT projects initiated in May.

NHS Regulators

- Care Quality Commission
- Monitor



NHS Authorities and Trusts

- Acute trusts
- Ambulance trusts
- Care trusts
- Foundation trusts
- Mental health trusts
- Primary care trusts
- Strategic health authorities
- Special health authorities

Information Governance and Ethics



NHS Ethics Committees



NHS Caldicott Guardians

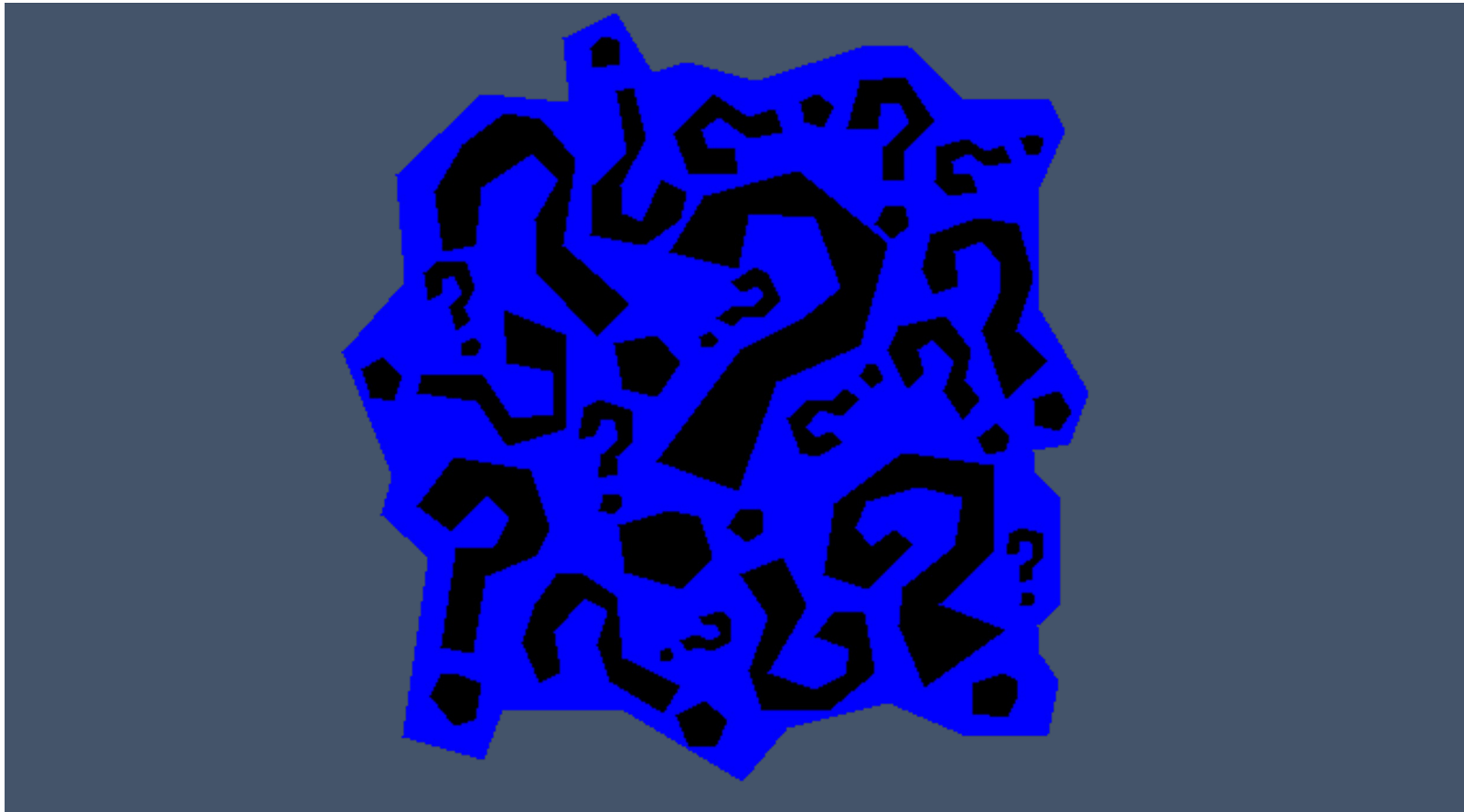
NHS Special Health Authorities

- National Institute For Health and Clinical Excellence
- National Patient Safety Agency
- National Treatment Agency
- NHS Blood and Transplant
- NHS Business Services Authority
- NHS Litigation Authority
- NHS Professionals Special Health Authority
- The Health and Social Care Information Centre
- The NHS Institute For Innovation and Improvement

Royal Colleges

- Services
- Membership
- Examinations
- CPD
- Advise Government
- Lead Debate

Review/Q&A



Competition



Course Review

Patient Pathology Journey

NHS Systems

NHS Organisations