



Genomics Advisors Framework

Presented by:

Dr Danielle Bogue

Education Development Lead, National Genomics Education

danielle.bogue4@nhs.net

Overview

- Background & aims
- Structure & application
- Draft framework for paediatrics
- Supporting resources
- Poll & Q&A

Background & aims

What is a Genomics Advisors Framework?



A tool to establish **competencies** for **genomics advisors** at **national, regional** and **local** levels



Scaffolding of the genomic medicine service



Supports **integration** of genomic medicine across specialties and professions

Development of the concept – working group

- Multi-specialty, multi-professional, multi-regional
- Co-chaired: Prof Kate Tatton-Brown and Dr Michelle Bishop



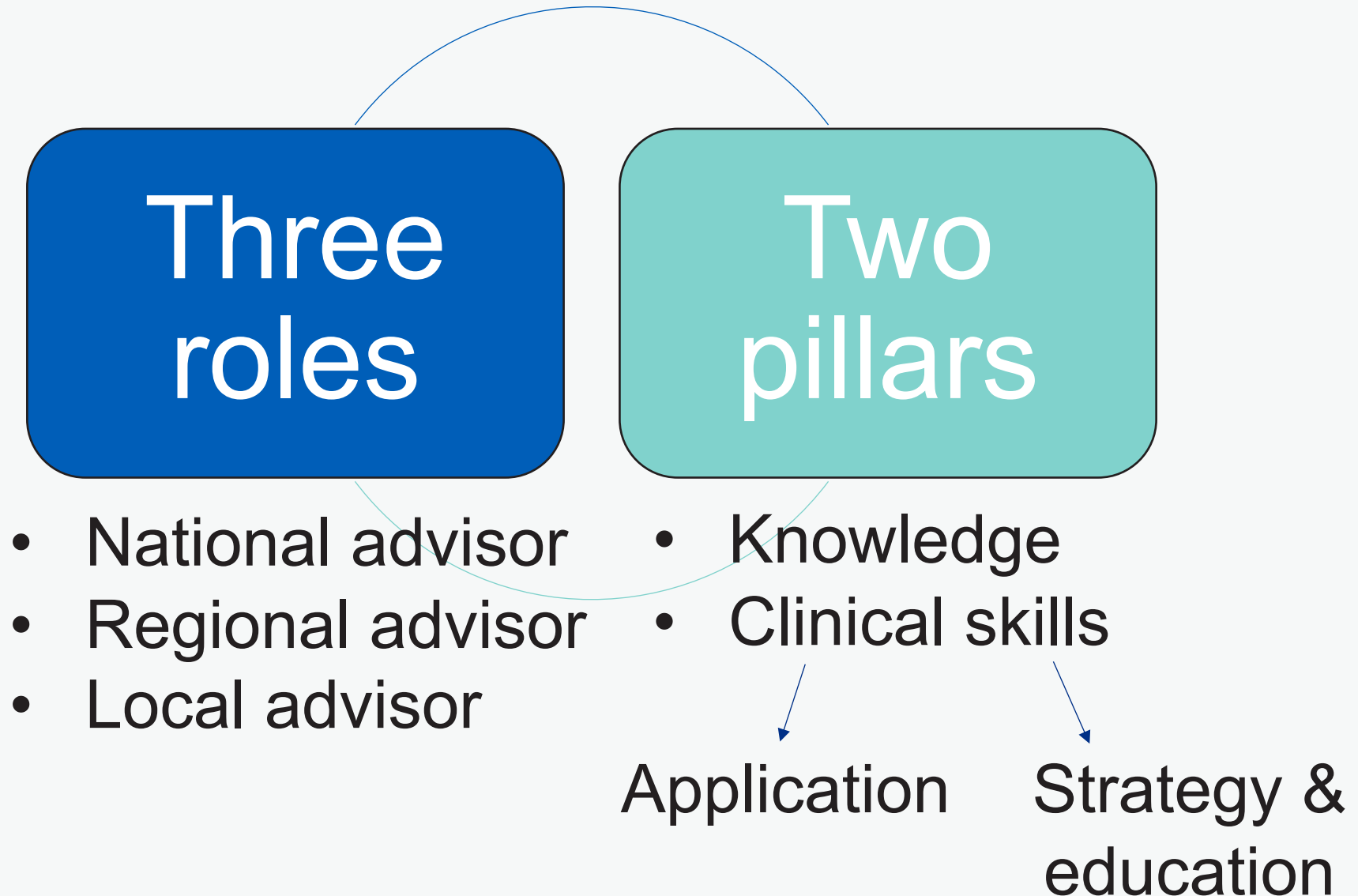


Aims

1. To facilitate the **integration** of genomic medicine across the healthcare specialties and professions.
2. To support the **flow of information** from national to local and local to national level.
3. To develop a structure that will promote **consistency** across the UK, across the specialties and across the healthcare professions.

Structure & application

Structure



Framework structure

1. Knowledge: Fundamental principles of genomics

Theme	Competencies		
	National	Regional	Local
Genomic literacy: Understanding fundamental principles.	Attains a level of genomic literacy as deemed appropriate by the specialty professional bodies.		

2. Clinical skills: Application of genomics in clinical practice

Theme	Competencies		
	National	Regional	Local
Applying genomic principles to own practice.	Applies advanced level genomic knowledge to clinical decision making and interactions with colleagues or patients. Understands when referral into specialist genomics services is indicated.		
Using genomics in own practice.	Applies advanced level genomics skills to clinical management of own patient case load as appropriate to the specialty. Understands when referral into specialist genomics services is indicated.		
Supporting appropriate use of clinical skills by mainstream clinicians.	Assists mainstream clinicians within the specialty to apply genomic skills to the clinical management of patients.		

3a. Clinical skills: Influencing and implementing the NHS Genomic Medicine Service (GMS) infrastructure

- The NHS National Genomic Test Directory
- The genomic infrastructure, including the GMSAs and GLHs, the specialist service specification and professional bodies
- Professional genomic interactions.
- Establishing and leading multi-specialty/multi-professional interactions

3b. Clinical skills: Educating and training the workforce

- Specialty-specific resource development
- The national programme
- Developing a genomic-literate workforce within the specialty so genomic data is used safely and effectively for patient benefit

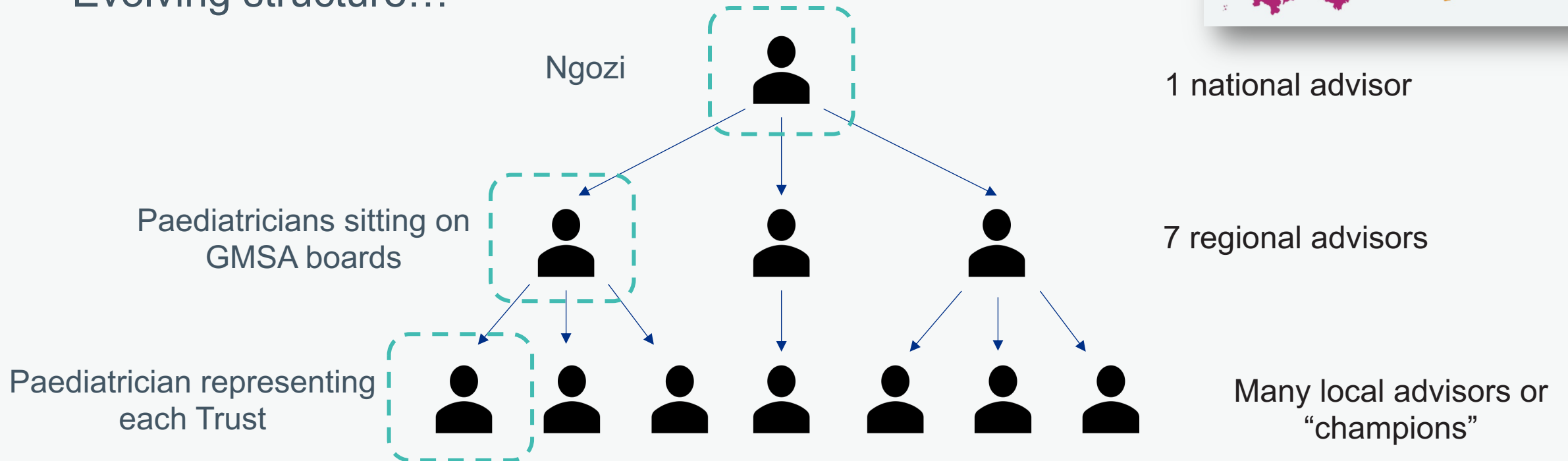
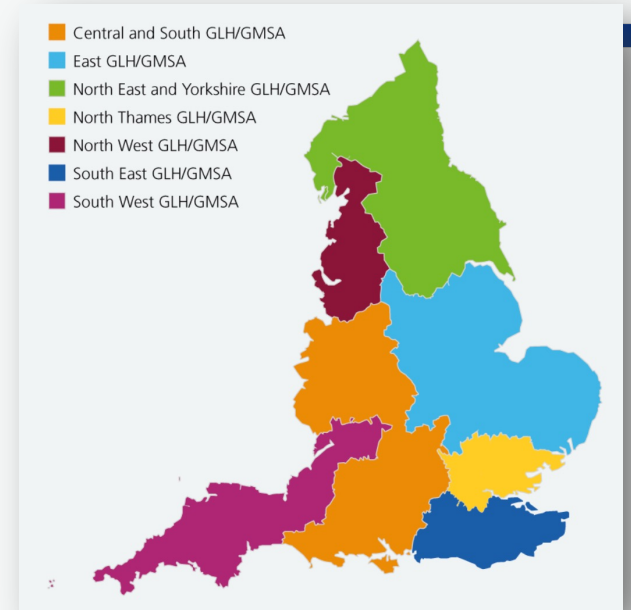
3c. Clinical skills: Leadership

- Acting as a role model
- Representing the specialty
- Developing future leaders

Application

- Very high level
- Pull down and apply
- Build networks
- Evolving structure...

The NHS Genomic Medicine Service regions



Draft framework for paediatrics

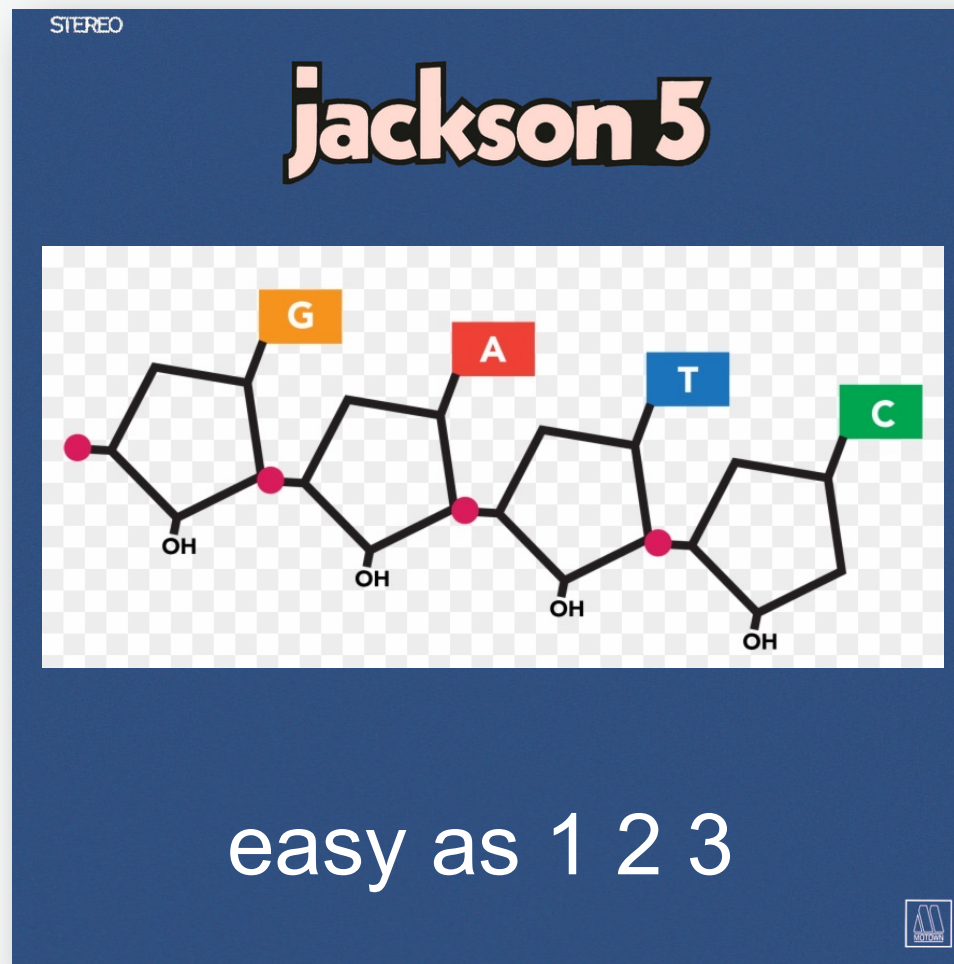


Next steps

- Refinement, sign-off, dissemination & recruitment
- Recognition for advisors
- Apply to different specialties, pathways, multi-professional roles
- Evaluate & iterate
- Learn & share

Supporting resources

Supporting resources



Summary

Paediatric genomic advisors framework

National, regional and local competency structure which underpins the delivery of genomic medicine

Supporting resources

Genomics 101, Facilitating genomic testing, rare disease MOOC, Master's, GeNotes, Rare disease education hub...

Acknowledgements

Genomics Advisors Framework working group

Kate Tatton-Brown and Michelle Bishop	Co-chairs
Jude Hayward	Primary care/co-chair primary care SIG
Imran Rafi	Primary care
Alison Berner	Oncology SpR
Ravi Sharma	Pharmacy
Catherine Mercer	Clinical Genetics/C&SGMSA E and T lead
Kevin Monahan	Gastroenterology
Mel Watson	GMSA/GLH E and T co-lead
Corinne Trim	GMSA/GLH E and T co-lead
Tracie Miles	Genomics nurse practitioner (oncology)
Donna Kirwan	Genomics Midwifery lead
Jennie Bell	Senior Clinical Scientist

RCPCH Genomics Working Group

Dr N Edi-Osagie (Chair)	Dr S Jheeta
Dr J Herberg	Dr D Wright
Dr D Elliman	Dr G Whitlingum
Dr R Hastings	Dr H Chauhan
Dr L Menzies	Dr C McKenna
Dr E Hay	Dr L Ferretti
Dr C Piyasena	Dr H McDermott
Dr Z Arslan	Dr J Burgess-Shannon
Dr S Y H Wong	Dr H Leitch
Dr K Burke	Dr C Breeb
Dr J Tolliday	Charlotte Douglas
Dr S Jose	Tahmida Zaman

NHSE National Genomics Education: **Dr Ed Miller**

Academy of Medical Royal Colleges: Dr Melody Redman



Resources

- <https://www.rcpch.ac.uk/resources/genomics-resources-child-health-professionals> *Note: The sharing of these resources does not equate to formal RCPCH endorsement.*
- <https://www.rcpch.ac.uk/resources/genetic-testing-resources>
- <https://www.genomicseducation.hee.nhs.uk/>
- <https://www.futurelearn.com/courses/genomics-in-the-nhs-a-clinicians-guide-to-genomic-testing-for-rare-disease>
- <https://www.genomicseducation.hee.nhs.uk/the-clinical-pathway-initiative/>
- <https://www.genomicseducation.hee.nhs.uk/about-us/masters-in-genomic-medicine/>
- <https://www.genomicseducation.hee.nhs.uk/genotes/>

Thank You



@genomicsedu



hee-genomics-education-programme



@genomicsedu



@GenomicsEducation



genomicseducation.hee.nhs.uk

danielle.bogue4@nhs.net genomics@rcpch.ac.uk

Poll & Q&A



Join at slido.com
with **#2273829**

