

The Pathology Portal:

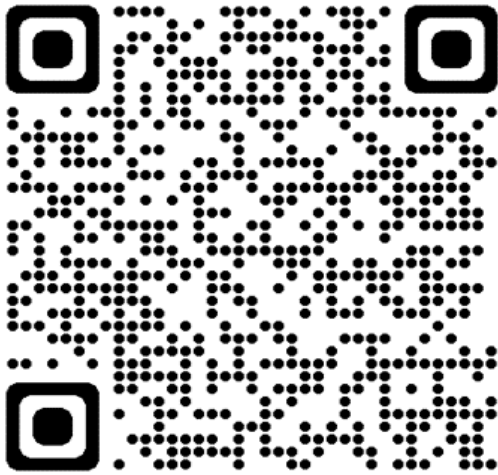
*harmonising learning for the
laboratory workforce of the future*

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On behalf of the Haematology Editorial Board
Subgroup

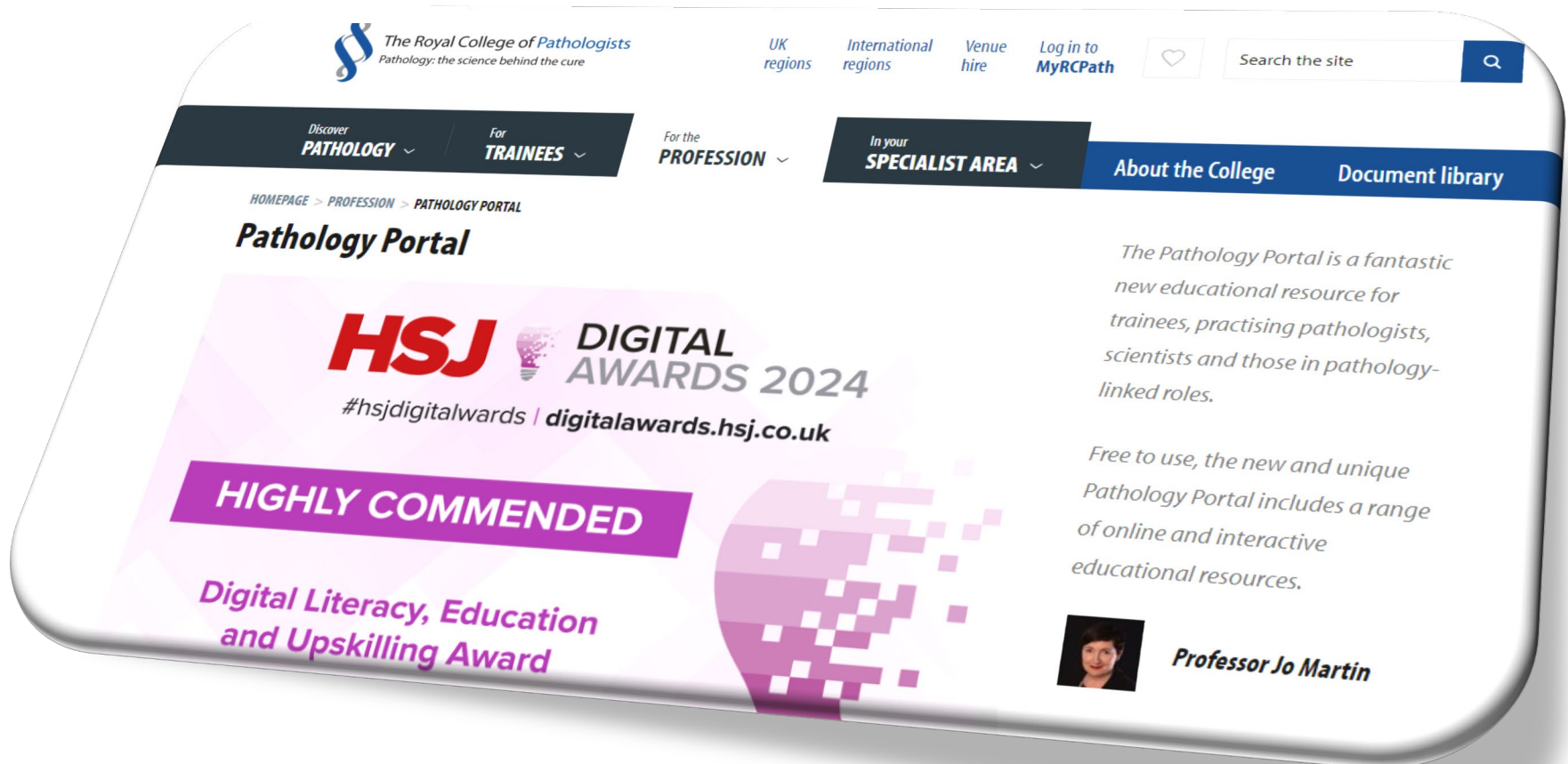
Disclosures

- *The speakers have no relevant conflicts of interest to disclose.*

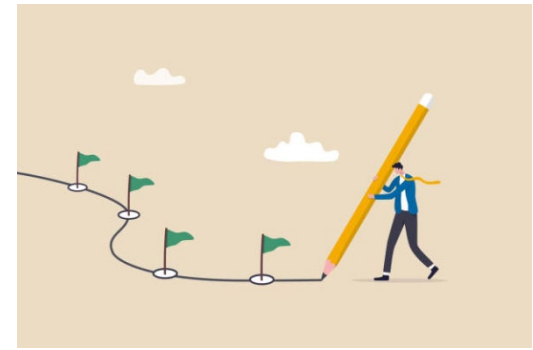


Sign up:

<https://learninghub.nhs.uk/catalogue/pathologyportal>



Progress updates/Targets



As of the end of **2024** (vs BSH 2024)

➤ **4886** (vs 3370) users across the Portal

Haematology section:

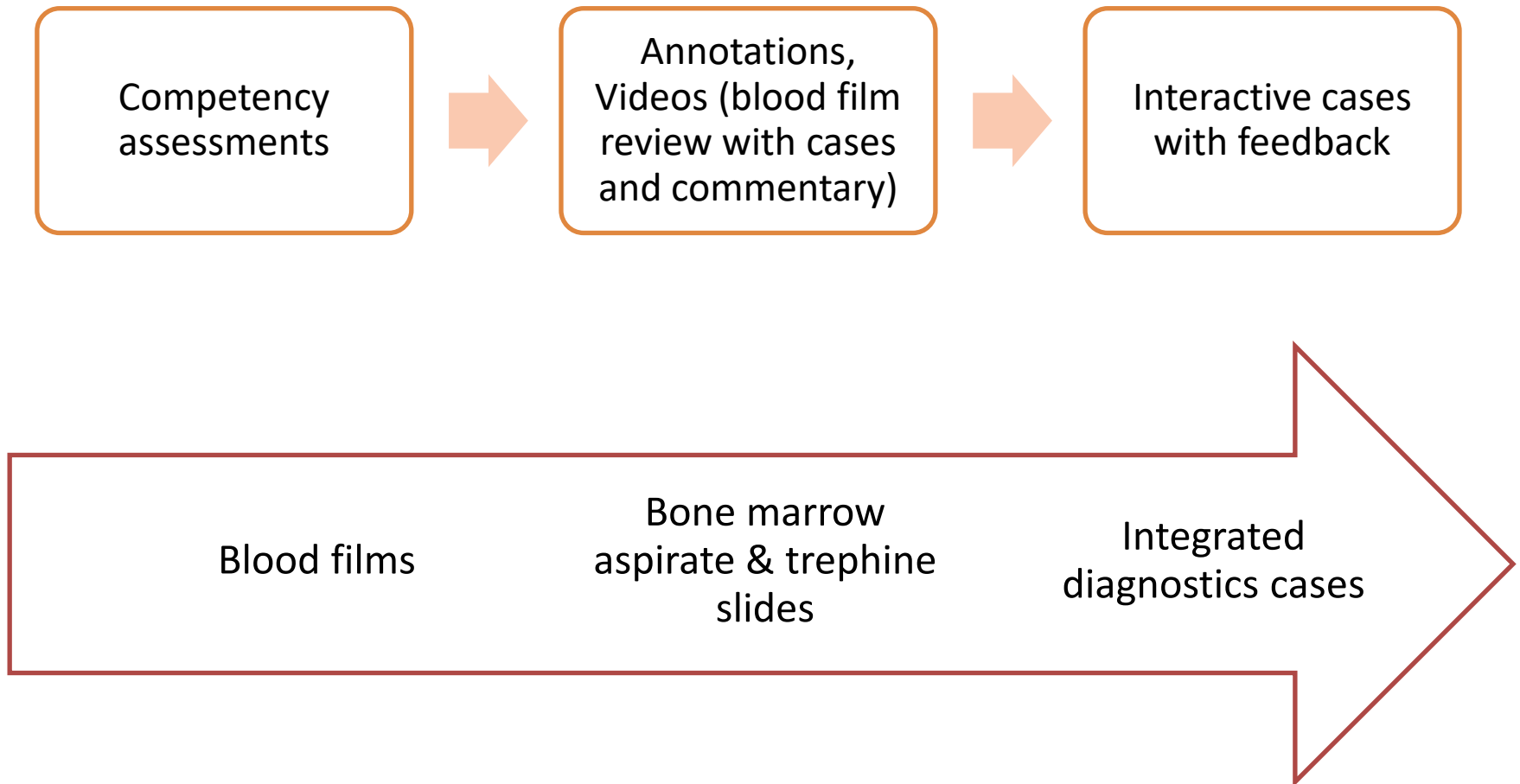
➤ **847** (vs 842) published resources in the morphology section

➤ launched **7,257** (vs 5740) times



- ✓ Paediatric cases
- ✓ Short and long cases (disclaimer)
- ✓ Annotations
- ✓ Live sessions
- ✓ Organise (can search according to diagnosis or experience or type of module)

From beginners to maintaining skills



Case scenario

Review the FBC and blood film

A 2-year-old child presents to his GP with pallor and failure to thrive.

A Full blood count was performed:

Hb 74 g/L (110-125 g/L)

MCV 60 fl (70-86)

MCH 15.7 pg (23 – 31.0)

Red blood count $4.71 \times 10^{12}/L$ (3.80 – 5.20)

WCC $6.8 \times 10^9/l$ (5.0 – 16.0)

Platelets $343 \times 10^9/l$ (150 - 400)

Neuts $2.0 \times 10^9/l$ (1.5 - 7.0)

Lymph $3.9 \times 10^9/l$ (5.0 - 10.0)

<https://learninghub.nhs.uk/Resource/53133/Item>

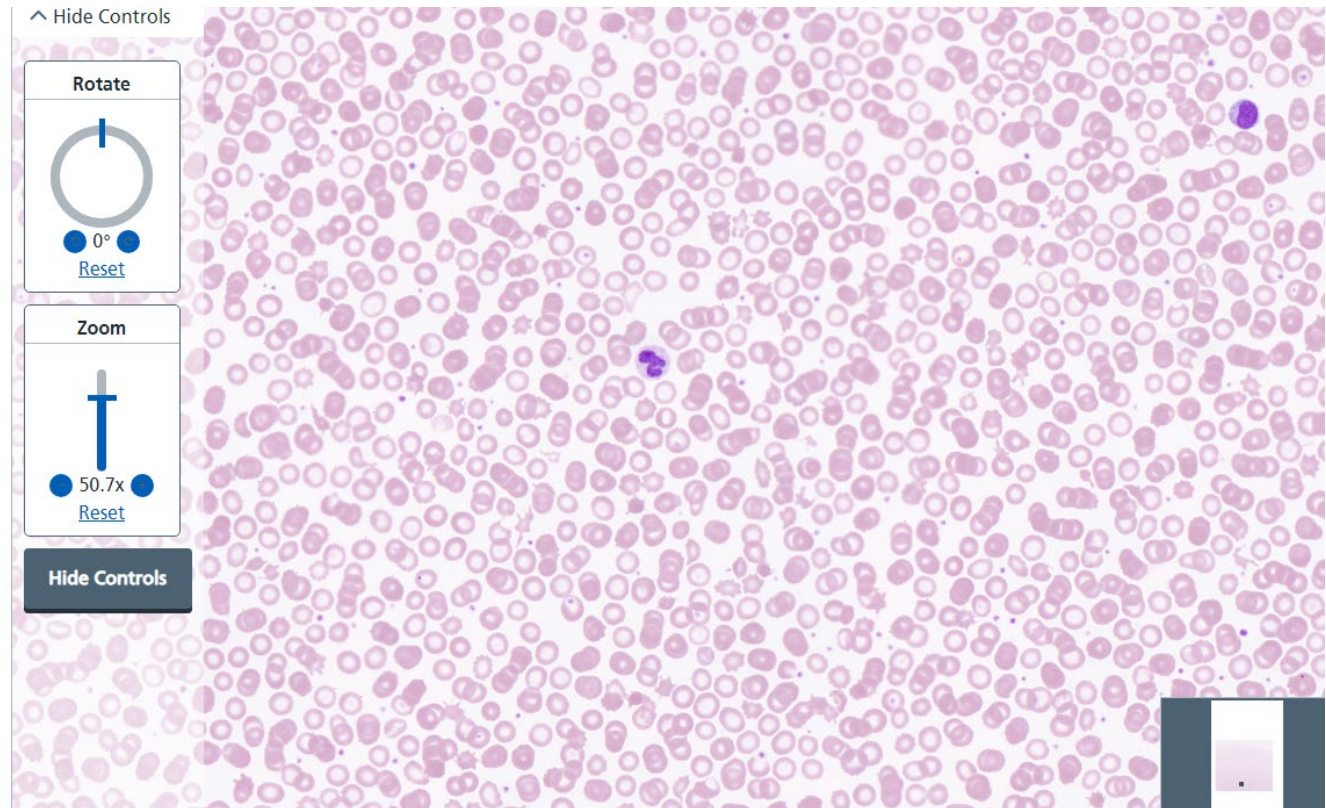
HPLC result

A haemoglobinopathy (HPLC) was performed. The results showed:

Haemoglobin A






Haemoglobin A2 2.1% (1.5 – 3.5)

Haemoglobin F <0.1% (0.5 – 1.5)



Case feedback

What is the likely diagnosis?

-  Haemolytic Uraemic Syndrome
-  Iron deficiency anaemia and splenectomy
-  Megaloblastic anaemia
-  Severe sepsis
-  Transfusion dependent thalassaemia



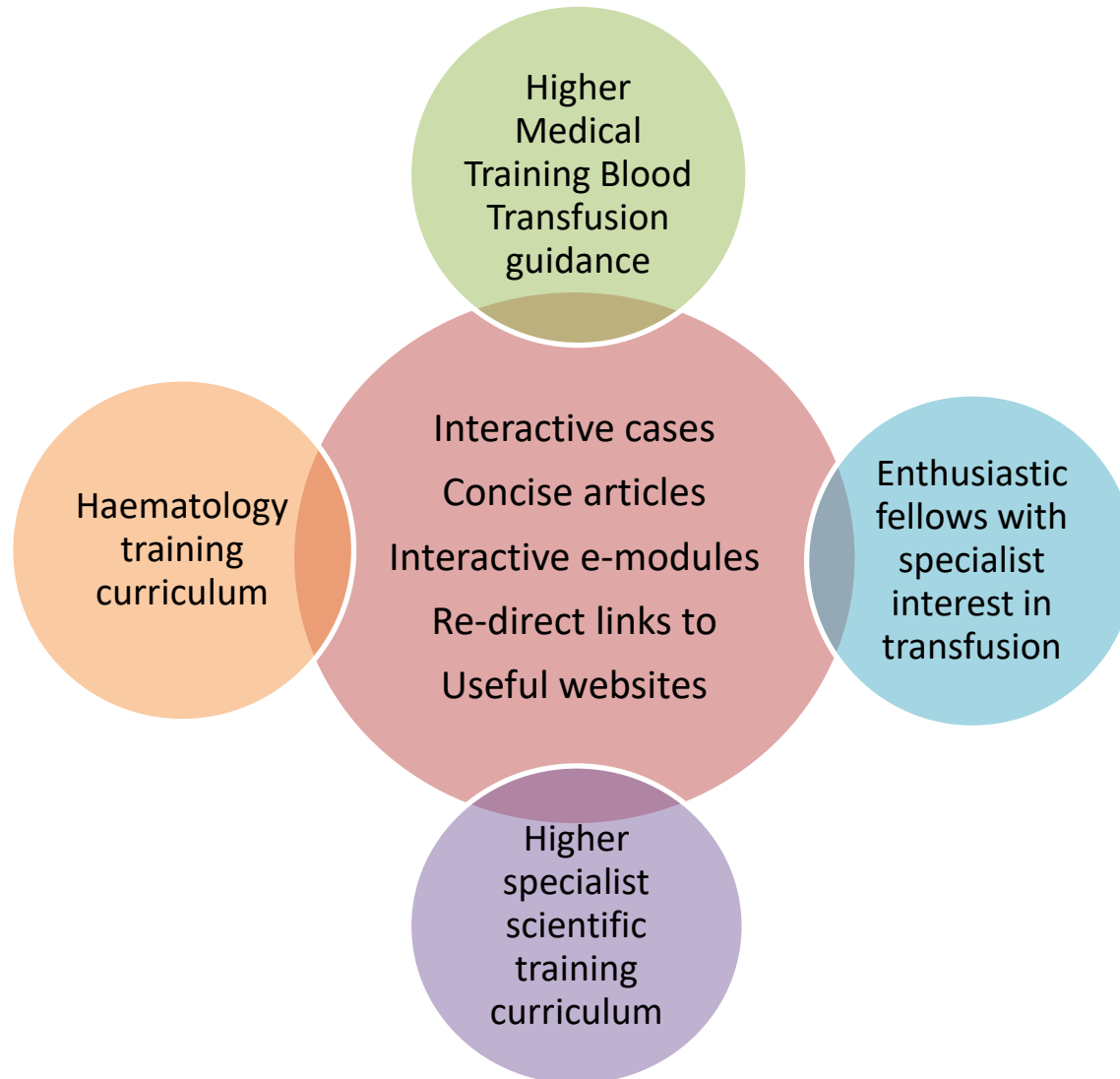
Option 2 is the best answer



There is a microcytic hypochromic anaemia with target cell elliptocytes. The HPLC is normal. This would therefore be most consistent with an iron deficiency anaemia. You can get occasional target cells in iron deficiency. There aren't other hyposplenic features.

There are no fragments or haemolysis in keeping with Haemolytic Uraemic Syndrome. There is no left shift in white cells consistent with severe sepsis. There is no macrocytosis consistent with mega

Transfusion



Other



Interactive cases with blood film integration

- HPLC
- Flow cytometry



Haemostasis and Thrombosis key topics

- Clinical cases in question and answer format
- UKHCDO talks recordings (short videos)

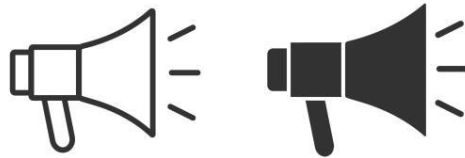


Any good quality relevant resource

- Webinars
- Presentation slides

Call for trainees & scientists

- We need you! We are looking for keen educators to contribute and expand our library of content. If you have teaching materials or ideas for modules, we would love to collaborate with you, or you can join our haematology editorial team.



Using the portal to teach live

My learning

You can use this page to search and filter learning resources you've accessed, download certificates and generate a report of your activity.

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Download a report of your learning.

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Search within My learning

798 activity results

[This week](#) [This month](#) [Last 12 months](#)

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Filtered by Date: **All dates**

The 4 Learning Styles



Visual



Auditory



Reading/Writing



Kinesthetic

Live sessions – why?



*This project aimed to conduct live teaching morphology sessions using the pathology portal platform



*To assess trainees' confidence and competence in reviewing and reporting blood films.

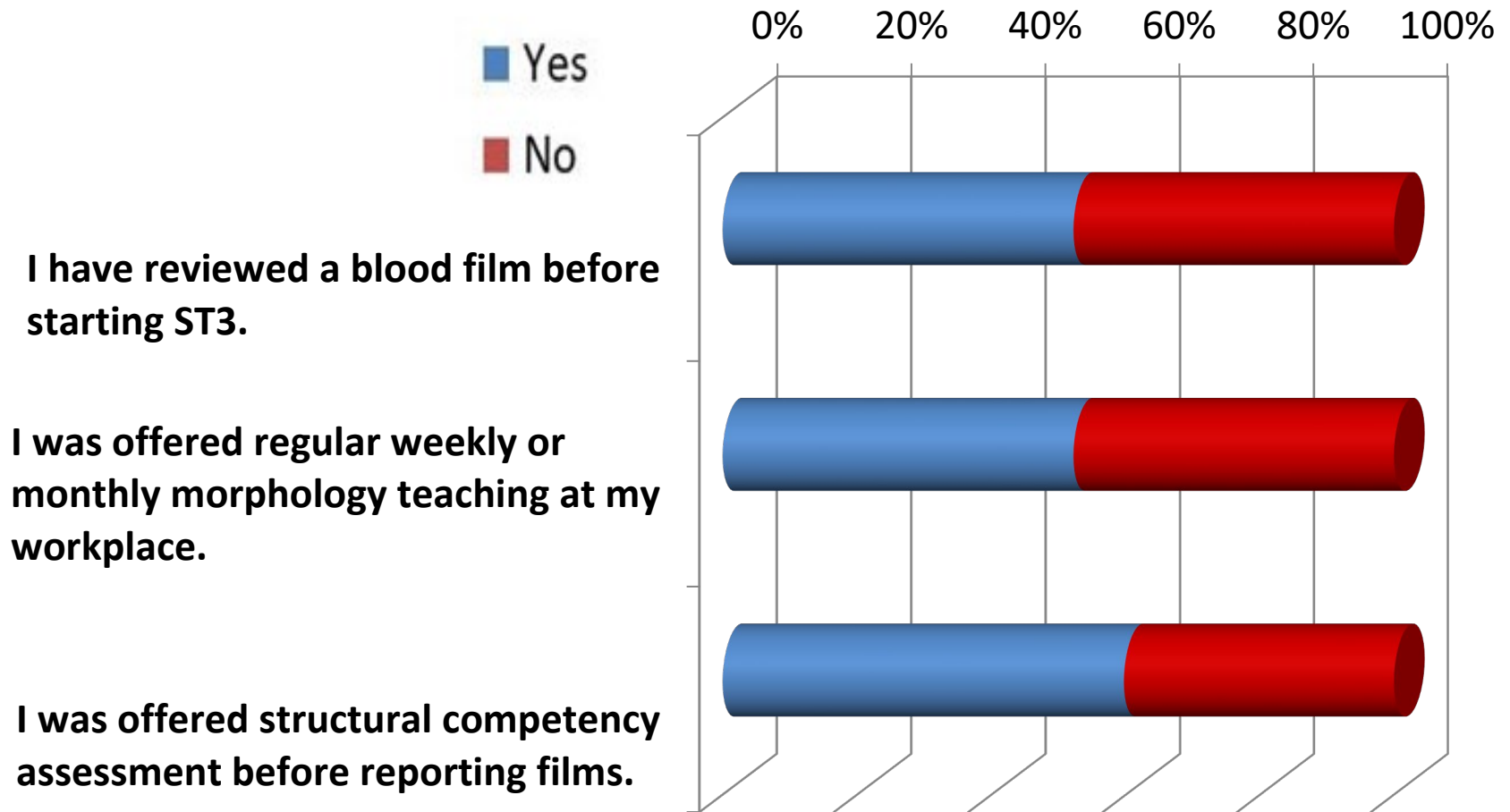
Live sessions – how/what?

- We devised 4 nationwide weekly live digital morphology sessions using the Pathology Portal materials targeted at ST3 trainees.
- Invites to sign-up were sent to all haematology trainees via the JRCPTB
- Pre- and post-course questionnaires to participants

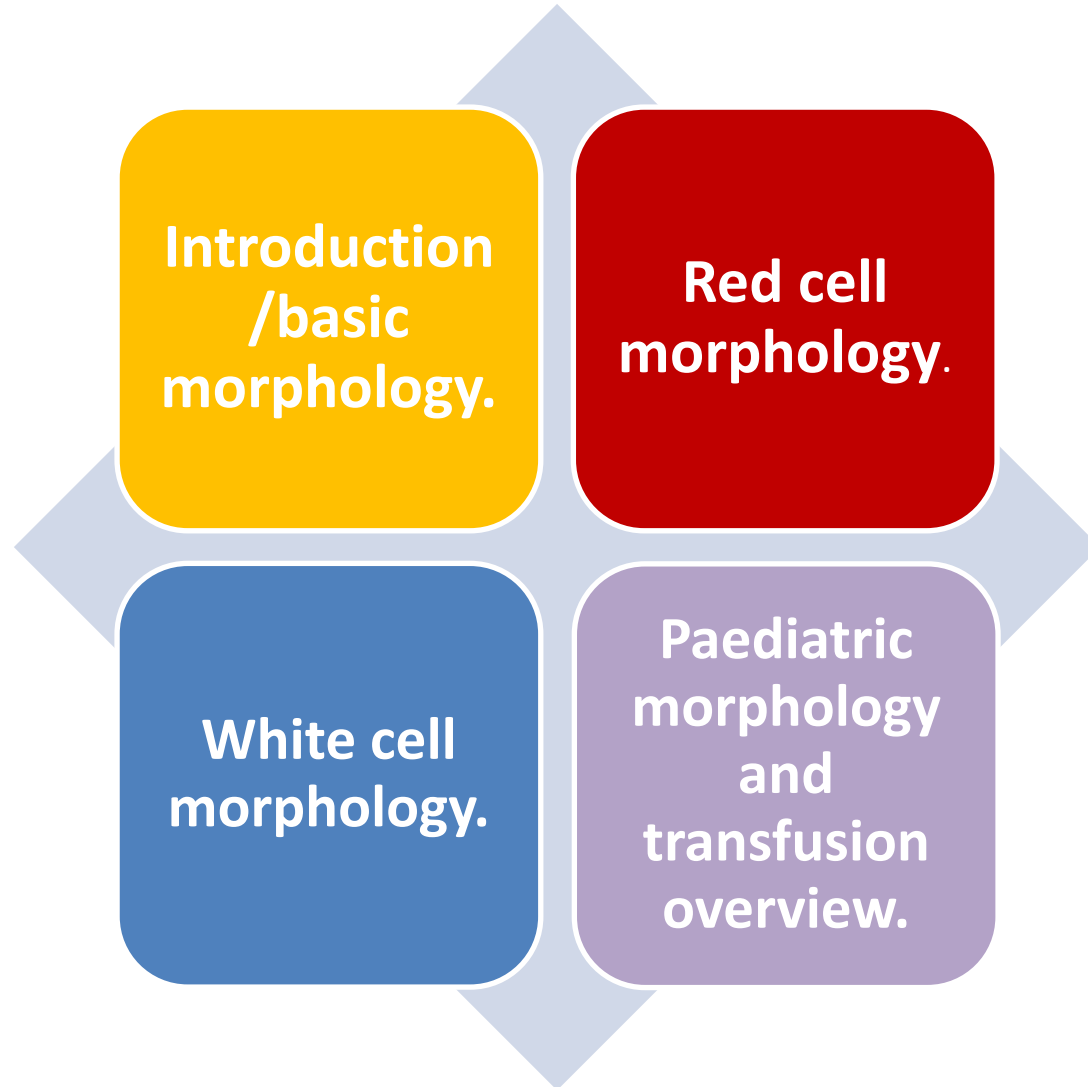


Pre-course questionnaire

67 responses!



Sessions conducted

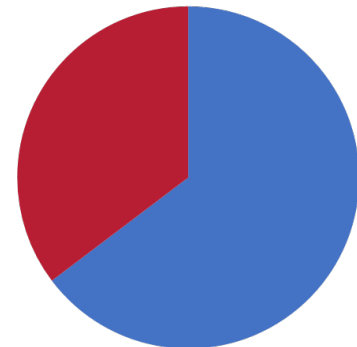


Live sessions-feedback

- Mean attendance per session was 56 participants.



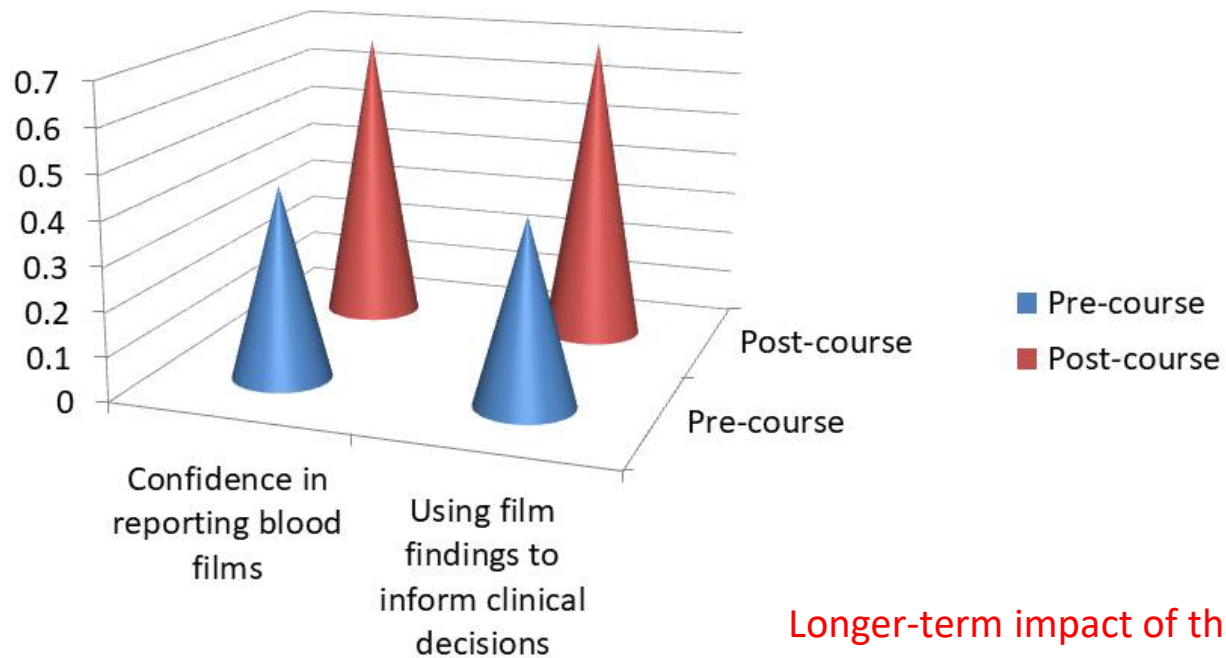
64.7% of trainees who accessed the Portal found self-directed learning useful (4/5) in improving their morphology skills.



Post-course survey

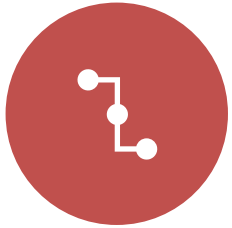
18 responses!

Trainees' self reported confidence



Longer-term impact of the pathology portal: under evaluation in currently circulating survey. Does using the Portal increase trainees' confidence?

Conclusions



Digital resources can lead to harmonisation & greater inter-observer concordance.



Our pre-course survey highlighted the need for structured & regular morphology teaching.



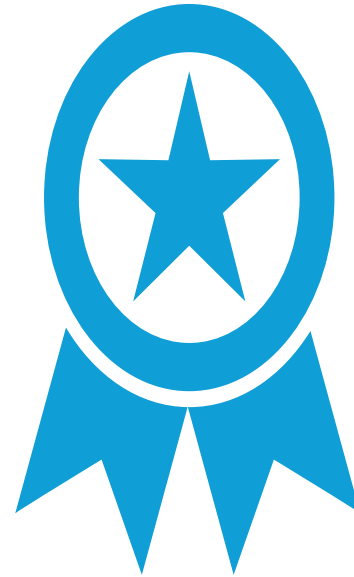
Virtual teaching aided by the portal was well perceived and led to subjective improvement in morphology skills.



However, digital morphology is not a panacea; optical microscopy remains the gold standard for morphological diagnosis and self-directed learning should not replace local skill-sharing and team-bonding.

Future sessions

We recommend running similar sessions annually with invitation to expand to biomedical scientists and NHS staff outside specialty training grades





Learners & Educators

- **Sign up:** <https://learninghub.nhs.uk/catalogue/pathologyportal>

For contributors

Come and
join us!

[Pathologyportal@
rcpath.org](mailto:Pathologyportal@rcpath.org)



Acknowledgements

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Thank you and Questions?

