Using and motivating smartphone clinical photography in the Moorfield's eye casualty

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INTRODUCTION

Smartphone cameras provide high resolution photography that could revolutionise clinical documentation and support routine monitoring, remote care models and diagnostic hubs. Recent advancement in data security and apps have made routine collection of clinical photographs more accessible.

The aim to explore engagement and the needs of trainees with clinical smartphone photography.

METHOD

Celestron XYZ (slit-lamp mount) and Quikvue (smartphone 15x magnification) were acquired for eye casualty.

Guidance on how to take clinical photos using the Pando app (free NHS-approved secure clinical communications platform) and how to upload this to the patient record was provided.

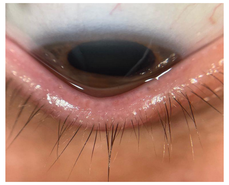
A Pando trainee photo cases discussion group and clinical photography competition were run together to promote involvement and education.

Overall impact was evaluated by a retrospective survey distributed amongst trainees.

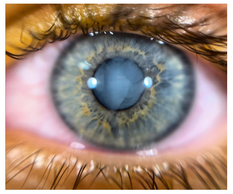
Device	Photographs	Time	Logistics
RP £115 Quikvue	Anterior segment	23s	No slit-lamp
RP £54 Celestron	Anterior/Posterior segment	1m 21s	Slit-lamp mounted

RESULTS

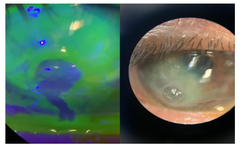
1. Best Overall
Mohsan Malik



2. Most Artistic
Sunil Mamtora



3. Most Educational
Liam Price



4. Most Clinical Impact
Ella Kim



Photography Competition 2020-21

49 submissions from 14 clinicians made for a great first ever competition! Independent scoring by 3 different consultants for prizes across 4 categories

Pando Trainee Photo Cases Group

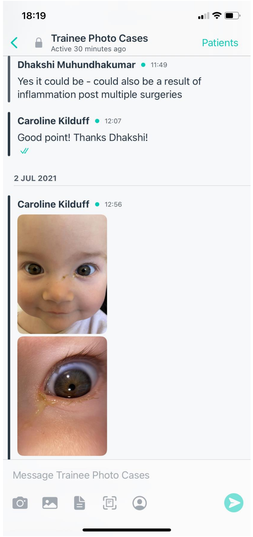
89 trainees

4 deaneries

71 photos + cases

Set up to combat lost training opportunities during redeployment & to develop a trainee education network

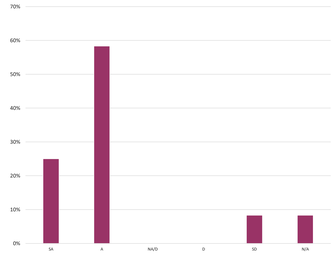




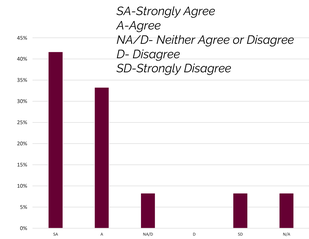
Qualitative Survey

12 trainees
91.7% **smartphone photography has the potential to improve clinical care**
85% Pando group is a **valuable educational resource.**

Valuable use of clinical time



Feedback & teaching opportunities



Trainee Comments

'Really enjoyed taking clinical photos and sharing them for learning purposes'

'Quikvue is easy to use. The adaptor takes more time so I tend not to use it - mainly I take photos of anterior segment & use OCT images for posterior."

'Definitely worth scaling up!'

CONCLUSION & RECOMMENDATIONS

Many trainees are motivated to take clinical BYOD photographs.

These photographs can be used for informal teaching opportunities, and to support trainee education networks.

Departments should consider creating BYOD clinical photography pathways for teaching and documentation purposes. The Moorfields standard operating procedures may be used as a guide.

The Trainee Photo Cases group and the Moorfields smartphone photography competition may be expanded nationally with trainees from all deaneries invited to take part. Please contact caroline.kilduff1@nhs.net if interested.