TeleOphthalmology NHS Wales

Miss Ebube Obi BSc, MB BS, MRCSEd, FRCOPHth
Consultant Ophthalmic Surgeon - ABUHB
Ebube.Obi@wales.nhs.uk

Introduction

- The Problem
- What Is Already In Place
- Our Aims & Objectives
- The Project Approach
- The Project Local Impact
- The Project National Impact
- Conclusion

Date (November 2022)									
Date Area code									
Indicator									
Health Board	Number of patient pathways, assessed as Health Risk Factor R1, waiting within target date or within 25% beyond target date for an outpatient appointment.	Number of patient pathways, which have a target date allocated and are assessed as Health Risk Factor R1, waiting for an outpatient appointment. ①	Percentage of patient pathways, which have \$\frac{1}{2}\$ a target date allocated and are assessed as Health Risk Factor R1, waiting within target date or within 25% beyond target date for an outpatient appointment. (1)	Total number of patient pathways, assessed as Health Risk Factor R1, waiting for an outpatient appointment. !					
Wales	66,517	135,103	49.2	135,308					
Betsi Cadwaladr University Local Health Board	13,329	34,599	38.5	34,712					
Powys Teaching Local Health Board	1,454	1,647	88.3	1,647					
Hywel Dda University Local Health Board	6,888	14,846	46.4	14,847					
Swansea Bay University Local Health Board	11,499	20,771	55.4	20,771					
Cwm Taf Morgannwg University Local Health Board	9,295	23,457	39.6	23,457					
Aneurin Bevan University Local Health Board	13,009	22,895	56.8	22,895					
Cardiff and Vale University Local Health Board	11,043	16,888	65.4	16,979					

Financial Costs

Servic	e Service	Currency	7	Number of	National Average	
Code	Description	Code	Currency Description	Attendances	Unit Cost	Total Costs
			Non-Admitted Face-to	-		
			Face Attendance,			
130	Ophthalmolog	y WF01A	Follow-up	1510578	£166.35	£,251,277,742.92

Ophthalmology Referrals

Optometrist/OMP Name and Practice Address Post Code: Tel						Patient deta Title	nils	Gender M / F			
						Surname Forenames					
NHS m	and the second	-	-				Address				
G	P Name a	nd Practi	ce Addres	is .			Telephone:		P	ost Code:	
1/4						12	Date of Birth				
-						ADULTS (NHS Number (if known)				
Patient asked to telephone/visit GP Patient asked to telephone/visit GP Patient sont to Eye Casualty Advise Referral to Eye Dept (URGENT) Advise Referral to Eye Dept (Routine) CHILDREN: Clinic Type suggested for referral to HES (tick most urgent one) Strabismus and Antibyopea Paediatric non-strabismus Cythoptic (only)				Cataract Ornea Disbetic Medical Refina External Eye Disease Glaucorna Laser (YAG capaulotomy) Low Vision Oculoplastics / Orbits / Lacrimal Other Medical Retina (incl ARMD) Squint / Ocular mobility Vitreoretinal Not Otherwise Specified				these are to help the GP to find correct HES service			
	Sph	Cyl	Axis	Prism	Base	VA:	Pinhole.	Add	Near	Previous corrected VA or (date)	
Right											
Left											
				MILLS.							
Normal/enclosed if abnom Optic nerve heads			if abnorm	al) Norn	Left eye Normal/enclosed of abnormati						
Intraocular pressure min			Mari	C:D Applaration			planation/non-contact/				
Time	Barre Famo				(11)(1)	179		stiviti	HQ Oth	or NCT	

The Problem



The Problem



 Non-Sight Threatening Disease – Anterior Segment



What Is Already In Place

- Diabetic Retinopathy Screening All Health Boards in Wales
- NHS Wales University Eye Care Centre CAVUHB
- New Eye Theatres 2022 UHW, Singleton Hospital Swansea
- Community Eye Clinics Cwm Taf Morgannwg, Hywel Dda
- Supporting Additional Community Optom Services Betsi Cadwaladr UHB

What Is NOT Already In Place

- Mandatory Referrals of Anterior Segment Problems with Photography
 - Optometry to Hospital Eye Service (HES)
 - Community Optometry to Specialist Optometry
- Equipping Optometrists with Low Cost Digitalised Accessories for Slit lamps
- No National Universal Online resource & Information for Patients, GPs & Optometrists (Eye Disease Info, Referral Info & Criteria, Advice Guidance, Management Info, Surgical Consent Info, Digital Consent, etc)
- Regional Centres of Excellence

Our Goals

- Not a Short Term Answer, but Long Term Answer to long waiting times
- Sustainable Solution across all Health boards in Wales
- "No" Maintenance Equipment
- Universally adaptable to all eye examination machines (Slit lamps) & Mobile Phones
- Financially very cost effective
- National Universal reputable online source of reference and for Patients, GP's & Optometrists in NHS Wales

Our Aims & Objectives

- 1. <u>Enabling optometrists who don't have digital slit lamps</u> to be able to access & <u>utilise</u> <u>digital solutions</u> to <u>produce digital photos</u> of anterior segment pathology <u>to accompany all referrals</u>, enabling appropriate clinician "**signpost**" triaging of these referrals. <u>The Accessory Device</u>.
- 2. <u>Provide</u> a mutually agreed <u>health care information in the community for optometrists, GPs and Patients</u>, on what can be safely monitored and treated in the community and what needs to be referred in to secondary care via a <u>new Tele-Ophthalmology website</u>.
- 3. <u>Listing patients for surgery directly from the community following a review of digital photographs</u> accompanying the referral as well as providing electronic <u>patient information</u> on the operation and <u>digital consent forms</u>.

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The Project – Approach

- 1. Optometrists Digitalisation <u>A digital questionnaire sent to the Optometrists</u> enquiring about their opinions and comments on digitalising their slit lamps. <u>89% of respondents did not have digital slit lamps</u>.
- 2. <u>Funding applied for and granted for a limited number of optometry practices</u>. Unfortunately the <u>funds</u> <u>could not be used directly due to NHS policy restrictions</u>. As a result, I used my personal funds to <u>obtain the digitisation kits Given to optoms in the pilot study who requested the adaptor.</u>
- 3. <u>Digital health care information in the community</u> for optometrists, GPs and Patients via a new <u>Tele-Ophthalmology website</u>. Funding applied for but not granted. Hoping that this is revisited due to its pivotal role in the community.
- 4. <u>2 pilot studies (Cataract & Ant Segment) was set up & approved by R&D</u>. Liaised with the Directorate manager, medical photographers, and another consultant ophthalmologist to <u>run virtual cataract clinics</u> first and <u>later virtual anterior segment clinics</u>.

The Project – Local Impact

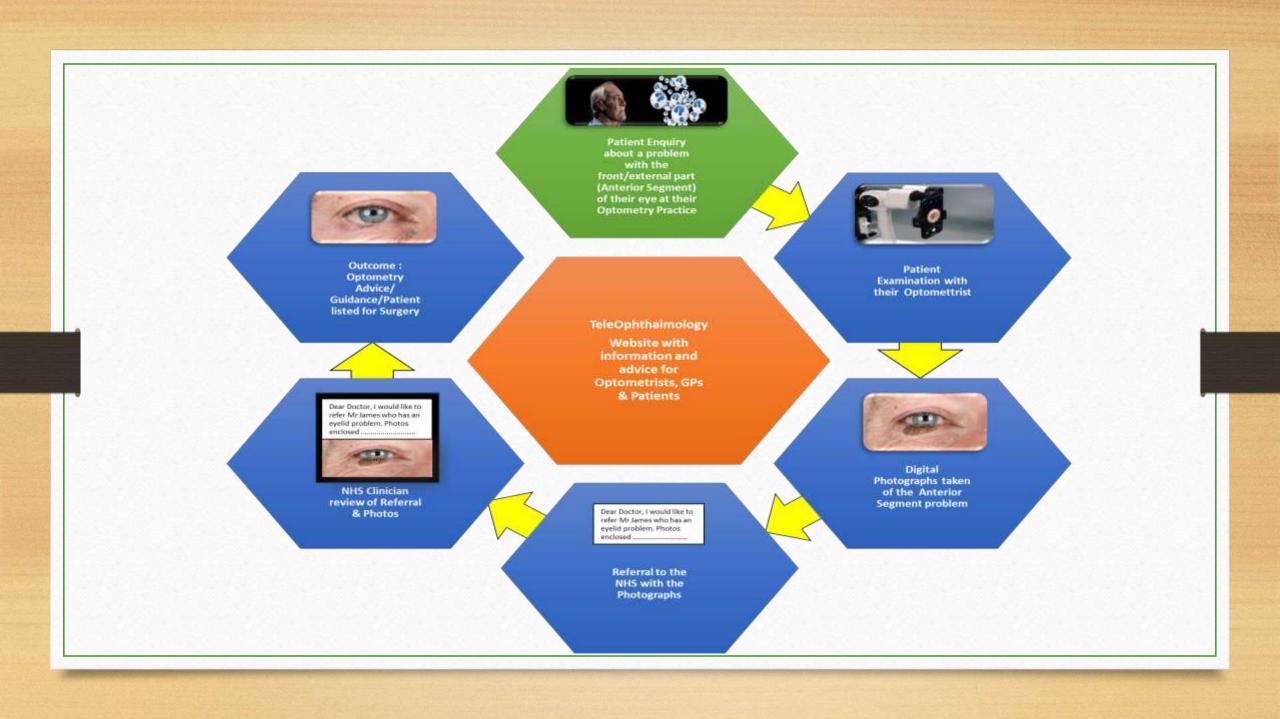
- 1. Optometrists digitalisation <u>All Optometrists in this pilot study with slit lamp adaptors are able to send in anterior segment referrals with photography.</u> Clinicians can now <u>prioritise referrals</u> for advice for therapeutic management in the community, list patients for clinic or directly for surgery.
- 2. <u>Digital health care information in the community for optometrists, GPs and Patients</u> via a new Tele-Ophthalmology website. Funding applied for but not granted Hopefully once funding is available, the impact will be huge.
- 3. Listing patients for surgery directly from the community following a review of the digital photographs of the patients pathology we now have a R&D approved virtual cataract clinics running and a number of patients have been operated on from the virtual cataract clinics. We are able to review 50% more patients in the virtual cataract clinics than in face to face clinics. In addition this does not require a clinic room.

The Project – National Impact

- Improved efficiency of providing eye care both within the primary and secondary care settings.
- Decreased waiting times for patients, as a number of them can be seen much earlier in the community and managed there as opposed to waiting months to be seen.
- Improved health care outcomes for all patients (R1-R3) and especially R1/USC, due to the resultant inherent efficiency within this project idea.
- Improved patient experience being seen locally at their local optometrist means less travelling time in a less stressful setting compared to coming into secondary care settings.
- Significant Financial Savings
- External Review of Eye Care Services in Wales (Andy Pyott, Sept 2021) Recommendation 1, 2, 4, 5, 6, 7, 10

Summary





Conclusion

- Digitalisation of Healthcare in Ophthalmology as well as other specialties is an essential pivotal part (not an optional part) of the NHS and needs to be encouraged, actively facilitated, fully funded and incorporated in all relevant clinical services & practice.
- A Tele-Opthalmology / Tele-Specialty Lead is also vital in establishing this.

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External Review of Eye Care services in Wales

Recommendation 1: Data management — It is imperative that for services to run smoothly data needs to be accessed and managed in a straightforward way. Access to accurate and real time informatics should be at the forefront of managing ophthalmic services. This includes data on cancelation where health boards should be held accountable for the number of hospital cancelations and scrutiny mechanisms put in place to ensure that hospital cancelations are avoided where possible

Recommendation 2: Improved communication within the service – For an optimal multidisciplinary approach to care to be effective, issues with communication need to be resolved. Regular meetings with managerial and clinical colleagues should be implemented to ensure a resilient and efficient workforce can reach its potential. It is also advised that the sharing of best practice and the encouragement of new innovations should be instilled within the workforce.

Recommendation 3: Reduction of a reliance on Service Level Agreements with English Health Boards - Whilst it is recognised that a long term reliance on cross border support for Eye Services in Powys is inevitable, the number of patients transferring to Bristol and Liverpool should be reduced if it is in the patients interest to do so, and the service can be safely provided in NHS Wales.

Recommendation 4: Corneal Services - Consideration should be given to the expansion of specialist corneal services.

Recommendation 5: Cross-linking – Consideration should be given to how and when a service for cross-linking should be developed. Appropriate education needs to be given to community optometrists to ensure that the service is well managed

Recommendation 6: Integration of services – Over time, out of date practices have led to a disjointed patient journey through some services. This can be problematic for the patient and the workforce. The implementation of workshops with all relevant stakeholders to establish new, leaner ways of working should be established.

Recommendation 7: Appropriate use of non-medical staff - Wales has made good use of non-medical staff. It is important that everyone is encouraged to perform to the top of their licence. A unified approach is to be encouraged. External Review of Eye Care Services in Wales September 2021

Recommendation 8: Cataract Services redesign – Centres need to be engaging in efficient high volume surgery on a regular basis.

Recommendation 9: Anaesthetic cover in theatre – The use of anaesthetic cover in Wales is variable and depends on both the surgeon and the procedure. A streamlined cataract pathway with agreed anaesthesiology cover is recommended for a sustainable cataract service.

Recommendation 10: Independent Prescribing and Ophthalmic Diagnostic Treatment Centres (ODTCs) – For both of these services to thrive, consideration should be given to rolling out independent prescribing initiatives to all ODTCs as well as expanding ODTC services to meet the needs of the population.

