

Diabetic Retinal Screening in Haemodialysis Clinics throughout Northern Ireland

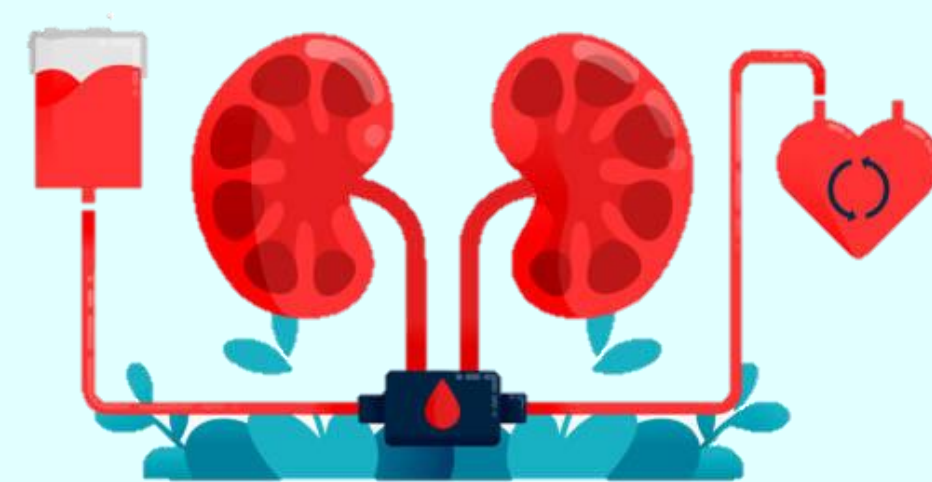
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BACKGROUND

- Population of **1.9 million**
- Over **112,000** people with **diabetes**
- Many people with diabetes will develop **diabetic eye disease**
- **4 out of 5** will develop **kidney disease**, some will require renal dialysis



- People attending **haemodialysis** attend for up to **4.5 hours, 3 times per week**
- This allows **little time** for other **appointments and commitments**
- Many people on **haemodialysis fail to attend** their annual diabetic eye screening

METHODS

- There are **6 Renal Units** across Northern Ireland
- All units were offered **diabetic eye screening 'in house'** by the diabetic eye screening programme
- **147** people were **invited for screening**
- A **non-mydriatic camera** and a **handheld camera** were used to capture **macula centred** and **disc centred** images on all patients who attended
- **Tropicamide 1%** was used to dilate all patients
- **SPSS** was used to determine basic frequencies

DEMOGRAPHIC RESULTS



Gender
Male: 59.2%
Female: 40.8%



Age Range:
33-91 years



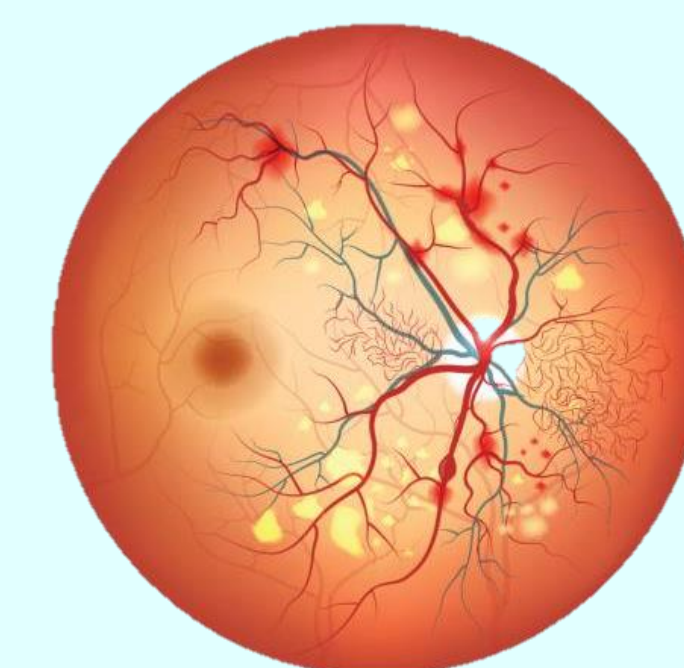
Attendance
Attended: 89.8%
Did Not Attend: 10.2%

RESULTS

Last year of screening attendance	
2021	7
2020	29
2019	41
2018	21
2017	14
More than 5 years ago	12
Never attended before	22

- **22** people **had not attended** screening before
- **36** people had attended in the **last year**
- **41** last attended in **2019**
- **12** people had not attended in **over 5 years**, with one not attending since **2000**

- **6** people progressed from **R0 → R1**
- **2** progressed from **R1 → R2**
- **7** progressed from **R1 → R3**
- **2** progressed from **R2 → R3**
- **1** person progressed from **R3S → no perception of light**
- **6** regressed from **R1 → R0**
- **32** people were referred to **slit lamp** due to **media opacities**
- **A majority (77%)** were in **wheelchairs**
- **12** were **stretcher patients** and could only be seen on **handheld camera**



CONCLUSIONS

- By providing screening in renal units, it made **attending annual diabetic eye screening easier** for people on haemodialysis
- We were also able to image **22 people who had previously failed to attend** their screening appointments and 12 who had not attended in over 5 years
- **Handheld imaging** was essential for **stretcher patients** and could be further implemented to allow for screening **during haemodialysis** as opposed to before and after