Seven year outcomes in wet AMD patients treated with anti-VEGF agents: A real life retrospective audit of wet AMD service at a district general hospital

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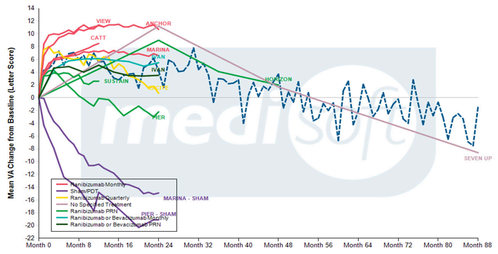
The Princess Alexandra Hospital NHS Trust

INTRODUCTION

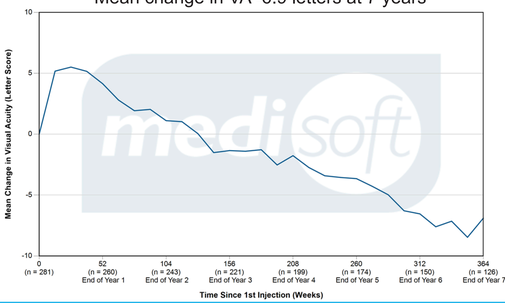
It's a retrospective audit with a purpose to assess long term outcomes in wet AMD approximately seven years after initial therapy and to compare with Major RCT. Audit included first 126 eyes with initial injections between 20/05/2010 to 03/12/2013 who were followed up until Dec 2020.

	SEVEN UP compared with ANCHOR/ MARINA at baseline	PAH data compared to baseline entry vision
Number of patients followed up for 7 years	65	126
Baseline VA	52.6	52.84
Good visual outcome (>65 letters): D	23%	27.78%
Poor visual outcome (<35 letters) in the treated eye	37%	28.57%
VA loss at 7 years	-8.6 letters	-6.9 letters
Stable (<5 letters lost) or improved vision	43%	50%
>15 letters lost	34%	30.95%
>15 letters gained	12%	15.87%

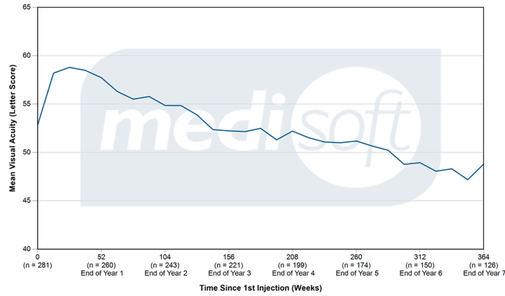
Change in visual acuity over time
Comparison against trials



Mean change in VA -6.9 letters at 7 years



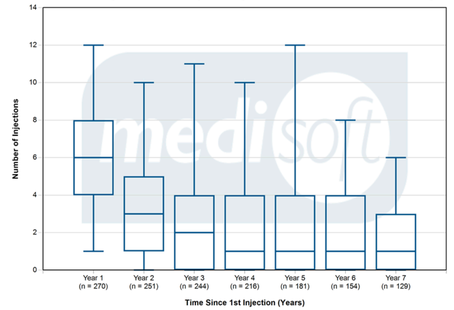
Mean VA change in ETDRS Letters Baseline VA 52.84 letters



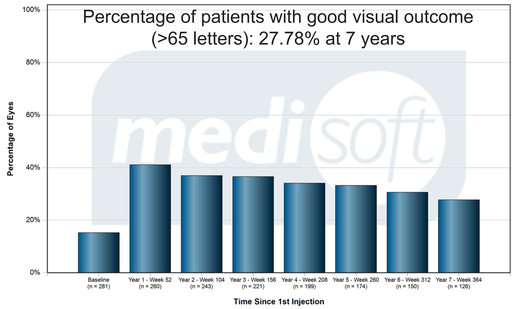
METHOD

All patients were treated at a single site with Ranibizumab on a prn basis initially and was changed to T&E regimen later. Aflibercept was introduced in 2013. Patients were switched from one drug to another drug if needed. All entries were transferred to Medisoft EPR in 2014 and were analysed on Medisight audit suite software.

Anti-VEGF injection frequency over time since first injection



Percentage of patients with good visual outcome (>65 letters): 27.78% at 7 years



RESULTS

- 126 patients out of 260 initially treated, continued to have follow up for approximately seven years. Significant number had dropped out of the follow up due to death, illness, change in residence etc.
- Patients received a range of 1-12 and an average of 6 injections in the first year, reducing to a range of 0-6 and average of less than two in the seventh year.
- The mean baseline BCVA was 52.84.
- 27.78% had > 65 letters, with 50% achieving stable or better vision and 15.87% had > 15 letters gain.
- 28.57% had <35 letters, and 30.95% lost > 15 letters from baseline.
- There was a Mean BCVA change of -6.9 letters from baseline at 7 years.

CONCLUSION

- At seven years, about one third of patients had good outcome with driving vision and almost half of eyes were stable or improved vision.
- One third declined by 15 letters or more and one third demonstrated poor outcome of less than 35 letters.
- The results are comparable with SEVEN-UP, a multicentre Cohort study.