Safety profile of the Precivia® injection assist device in a nurse led intravitreal injection service at Swindon: 5-year data

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Introduction

- With the increasing demand for intravitreal anti-VEGF injections, ophthalmic allied healthcare professionals are gradually replacing medical professionals in delivering this service.[1]
- Injection assist devices such as Precivia® are well established and are increasingly utilised to aid in safe & efficient delivery of intravitreal injections.[1]

Aim

To present safety data over a five-year period on a nurse-led intravitreal injections using Precivia® injection assist device at Great Western Hospital, Swindon.

Methods

A retrospective review of all intravitreal injections of anti-VEGF delivered by nurse injectors using Precivia® at the Great Western Hospital between May 2015 and May 2020.

Results

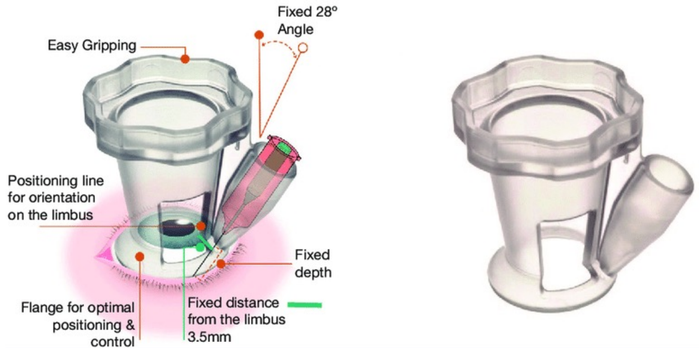


Figure 1 *- Schematic representation of the Precivia® intravitreal injection assist device, manufactured by FCI Ophthalmics USA.[2]*

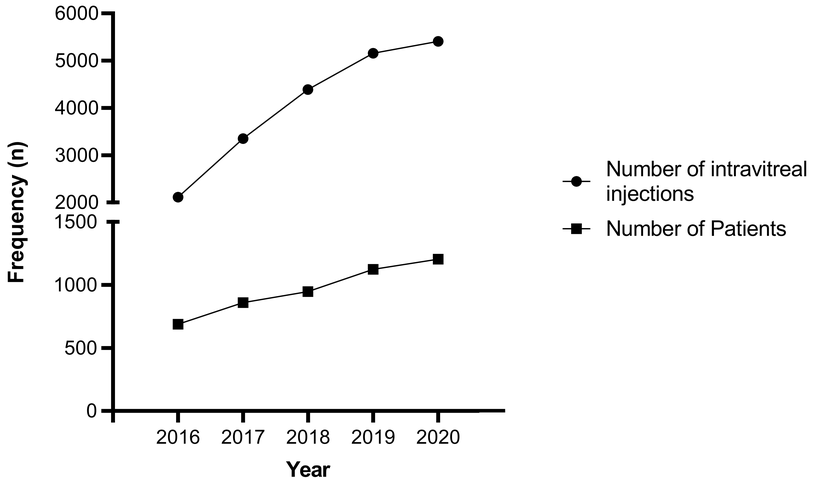


Figure 2 *- Number of intravitreal injections administered by ophthalmic nurses and number of patients over the five-year study period.*

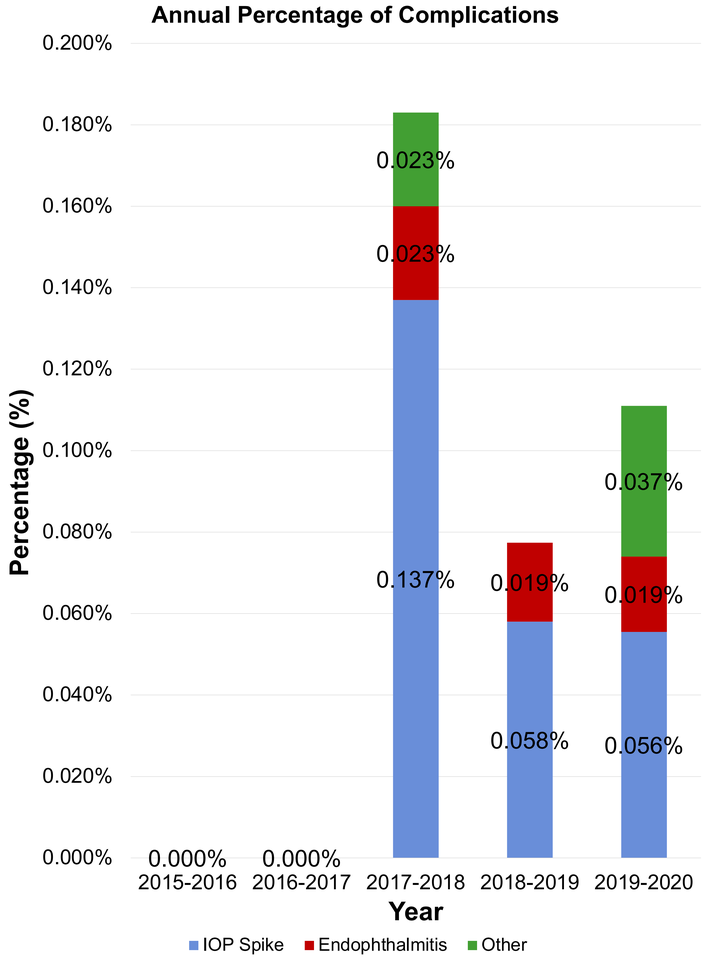


Figure 3 *- Annual percentage of complication types*

Discussion

- 20,421 Precivia®-assisted intravitreal injections were performed over 5 years by trained ophthalmic nurses
- Three cases (0.015%) of endophthalmitis were identified.
- All 3 cases were culture negative and treated with intravitreal antibiotics.
- No cases of lens touch, retinal detachment or systemic thromboembolic events were identified
- Reported rates of post-injection endophthalmitis vary between 0.02-0.06%[3] demonstrating the devices' safety and efficacy well in nurses hands

Conclusions

Use of the Precivia® intravitreal injection assist device by trained allied ophthalmic health professionals is a safe & efficient method to deliver the intravitreal injection service.

References

1. Ahmed I, Maghsoudlou P, Hasan H, Abumattar A, Shah N. Safety and efficacy of nurse led intravitreal injection service with Precivia® injection assist device. Eur J Ophthalmol.
2. Precivia® [Internet]. FCI. Available from: https://fci-ophthalmics.com/products/precivia/