

## INTRODUCTION

Vogt-Koyanagi-Harada (VKH) Syndrome accounts for as many as 56% of diagnoses in Canadian FN.<sup>1</sup>

Important differences in FN uveitis:<sup>1</sup>

<b>Earlier Onset</b>	avg. 30 vs. 40 yrs
<b>Female</b>	84% vs. 68% <sup>2</sup>
<b>Granulomatous</b>	53% vs. 11%
<b>Bilateral</b>	86% vs. 51%
<b>Panuveitis</b>	67% vs. 16%

**More severe despite earlier presentation, consistent follow-up**

Paucity of literature surrounding uveitis presentations in FN groups.

## OBJECTIVES

To summarize demographics, ocular and systemic disease characteristics, treatment and outcomes of VKH in a Canadian FN population.

## METHODS

- Retrospective case series of 27 FN patients (54 eyes) with VKH uveitis from Manitoba and Ontario.
- REB Approval: University of Manitoba, Assembly of Chiefs.

## RESULTS

### Patient Characteristics (n=27):

<b>Age at Presentation</b>	31.6 ± 14.1 (avg.)
<b>Age of VKH Onset</b>	30.9 ± 13.8 (avg.)
<b>Sex</b>	96.3% female
<b>Urban vs. Rural</b>	68% Rural
<b>Chronicity</b>	Acute (<3m): 52% Chronic (≥3): 48%
<b>Follow-Up Duration</b>	Median 3.1 yrs (IQR 7.3)
<b>Bilateral Presentation</b>	100%
<b>Granulomatous Uveitis</b>	78%

### Systemic Characteristics:

Systemic Associations		
<b>Dermatologic</b>	70%	Alopecia, vitiligo, poliosis
<b>Neurologic</b>	63%	Headache, dizziness, meningismus, dysarthria
<b>Auditory</b>	48%	Dysacusis, hearing loss, tinnitus
<b>Unique Associations</b>	11%	Syncope, foot drop, arm and face paresthesias, stroke, diplopia, ataxia

### Other Medical Characteristics

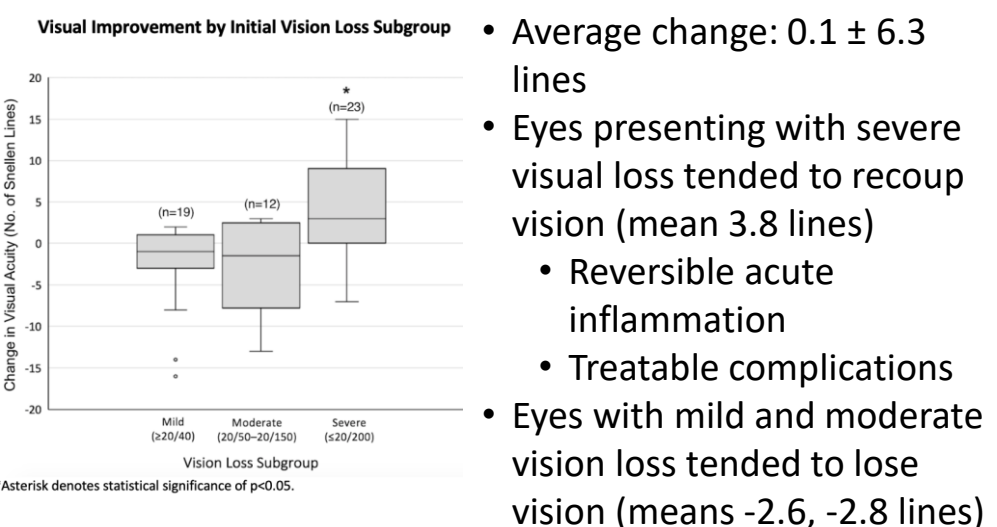
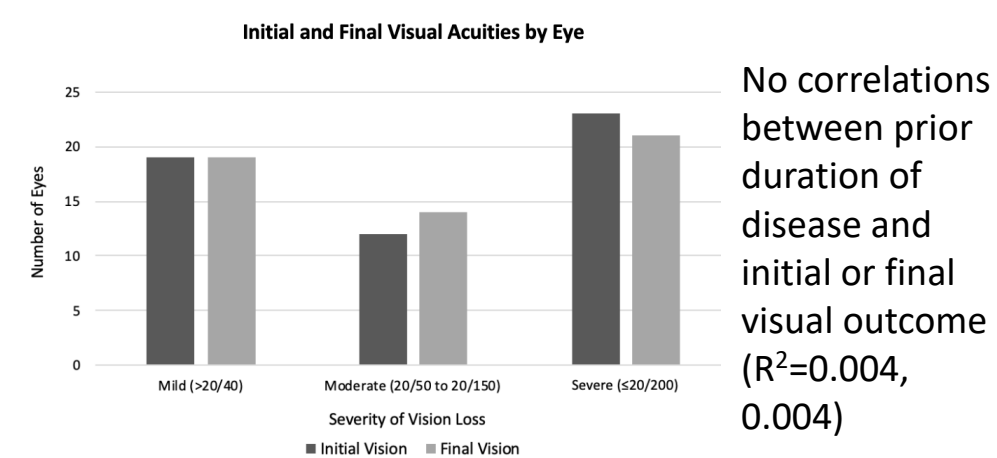
<b>Family History</b>	25%	VKH, uveitis, vitiligo, alopecia, poliosis, autoimmune conditions
<b>Comorbid TB</b>	26%	Required treatment for comorbid TB while on immunosuppression



### Ocular Disease Characteristics:

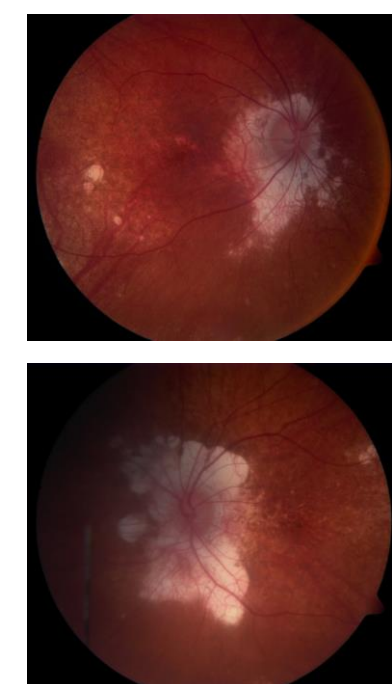
#### VKH Diagnosis:

- Complete: 9 (33%)
- Incomplete: 8 (30%)
- Probable: 10 (37%)



### Treatment:

Steroids	
<b>Topical</b>	27 (100%)
<b>Oral</b>	24 (89%)
<b>Injected</b>	11 (41%)
<b>Intravenous</b>	1 (4%)
Immunomodulatory Therapy (IMT)	
<b>1 agent</b>	8 (30%)
<b>2 agents</b>	2 (7%)
<b>Glaucoma Drops</b>	18 (67%)



## CONCLUSIONS

- FN develop uveitis earlier (avg. age 31), strong female predilection.
- Final VAs were frequently poor (≤20/200 in 21 eyes, 39%). Global average is <30% for this subgroup.<sup>3</sup>
- Few patients had good final VAs (≥20/40 in 19 eyes, 35%). Global average is >50% for this subgroup.<sup>3</sup>
- Rates of IMT use fell well short of accepted guidelines.<sup>4</sup>
- Unique neurologic associations thought to represent inflammation of melanocyte-rich meninges over brainstem and cerebellum.<sup>5</sup>
- Cultural/geographic factors and comorbidities (incl. TB, diabetes) present unique challenges.



## REFERENCES

1. Roy M. Analysis of uveitis in a Canadian Aboriginal population. *Can J Ophthalmol.* 2014;49(2):128–134.
2. Ehmann D, Tennant MTS, Somani R, Rudnisky CJ. Vogt-Koyanagi-Harada disease in First Nations and Métis of Northern Alberta. *Can J Ophthalmol.* 2013;48(3):146–152.
3. Abu El-Asrar AM, Al Tamimi M, Hemachandran S et al. Prognostic factors for clinical outcomes in patients with Vogt-Koyanagi-Harada disease treated with high-dose corticosteroids. *Acta Ophthalmol.* 2013;91:e486–e493.
4. Paredes I, Ahmed M, Foster CS. Immunomodulatory therapy for Vogt-Koyanagi-Harada patients as first-line therapy. *Ocul Immunol Inflamm.* 2006;14:87–90.
5. Sheriff F, Narayanan NS, Huttner AJ, Baehring JM. Vogt-Koyanagi-Harada Syndrome: a novel case and brief review of focal neurologic presentations. *Neuro Neuroimmunol Neuroinflamm.* 2014;1:1–3.