

The Use of Silicone Hydrogel Contact Lenses by Canadian Optometrists: 2000-2006

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Introduction

- ☐ Many different contact lens types and wearing modalities exist
- Analyzing the prescribing habits of contact lens practitioners gives an indication of current trends and may predict future changes within the market
- Analyzing prescribing habits also indicates the impact that new products have had on patient care

Purpose

- ☐ To evaluate the silicone hydrogel (Si-H) lens fitting preferences of Canadian optometrists, from 2000 to 2006
- ☐ To determine trends in fitting that occur as new lenses are released into the market

Methods & Materials

- ☐ A contact lens fitting survey¹⁻⁶ was distributed annually, in January, to 1000 randomly selected Canadian optometrists
- Provinces were proportionately represented
- ☐ Practitioners were asked to complete details for the next ten consecutive patients fit with contact lenses. Patients could be new to contact lenses or be existing wearers being refit with
- Practitioners were asked to return the surveys by the end of March even if ten patients had not been fit
- To compensate for the different levels of practitioner activity a weighting factor was given to all fits for each practitioner
- ☐ The information compiled included:
 - Date of fitting, age, gender, new fit or refit, lens material type, lens design, frequency of replacement, modality of wear, use per week and care regimen

Results

- ☐ Response rate was 14.4% over 7 years (1008 surveys returned)
- □ Soft lenses were fit to 91.3% of patients
- 9.340 fits reported, of which 1.582 were for Si-H lenses

Results

Contact lens materials

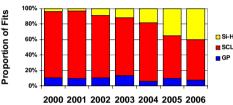


Figure 1: Distribution of contact lens materials for all fits

Si-H: daily vs extended wear

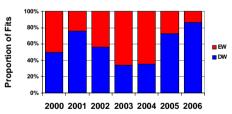


Figure 2: Distribution of DW vs EW for Si-H lenses

Soft lens care products

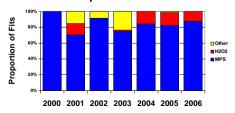


Figure 3: Distribution of lens care products used for Si-H lenses

Results

Replacement frequency

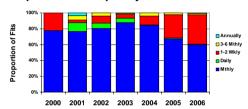


Figure 4: Distribution of replacement frequency - all fits

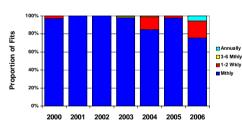


Figure 5: Distribution of replacement frequency -Si-H EW

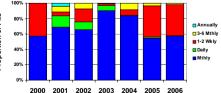


Figure 6: Distribution of replacement frequency - Si-H DW

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Results

New vs Refit

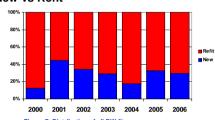
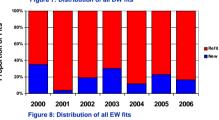


Figure 7: Distribution of all DW fits



Discussion

□Si-H lens fits increased from 5.4% to 42.9% over 7 years

Proportion of Si-H fit for daily wear increased from 33.7% in 2004 to 86.1% in 2006

□2004 saw an increase in 2 weekly replacement of Si-H

■Multipurpose solutions were prescribed for 87.4% of patients

Conclusions

Canadian optometrists fit a large proportion of their patients

■New products have been embraced by the profession □Si-H lenses are mainly used for daily wear

2 Morgan P, Efron N, of al. International contact lens prescribing. Contact Lens Spectrum 2004; 7:17: 42-49.
3 Morgan P, Efron N, of al. International contact lens prescribing 2002. Contact Lens Spectrum 2005; 18:1: 40-43.
4 Morgan P, Efron N, of al. International contact lens prescribing in 2003. Contact Lens Spectrum 2005; 20:1: 34-37.
5 Morgan P, Efron N, of al. International contact lens prescribing in 2004. Contact Lens Spectrum 2006; 20:1: 34-37.
6 Morgan PB, Efron N, et al.: International contact lens prescribing in 2004. Contact Lens Spectrum 2006; 21:1: 35-39.