

## 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 survey 1-6 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
- □ Soft lenses were fit to 91.3% of patients
- 9,340 fits reported, of which 1,582 were for Si-H lenses

### Contact lens materials

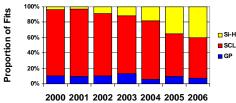
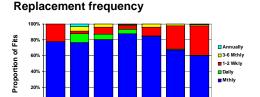


Figure 1: Distribution of contact lens materials for all fits



2000 2001 2002 2003 2004 2005 2006 Figure 4: Distribution of replacement frequency - all fits

### Si-H: daily vs extended wear

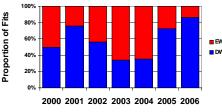


Figure 2: Distribution of DW vs EW for Si-H lenses

# 3-6 Mthly ■1-2 Wkly 2000 2001 2002 2003 2004 2005 2006

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

## Soft lens care products

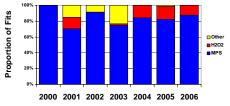


Figure 3: Distribution of lens care products used for Si-H lenses

## □ Annually m 3-6 Mthly ■ 1-2 Wklv □ Daily 2000 2001 2002 2003 2004 2005 2006

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

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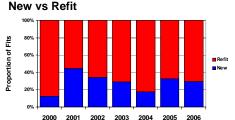
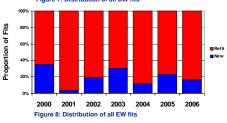


Figure 7: Distribution of all DW fits



### **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

### References