Applications of Tinted Contact Lenses in Clinical Practice & Research 2015

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Today's Discussion

• Uses for tinted contact lenses
• Current market trends
• Understanding the tinting process
• Types of tinted lenses
• Products available

History of Tinted Contact Lenses

• 1939 → Miracles for Sale
• 1950s → first corneal contact lens
• 1971 → first commercial soft contact lens
• Early 1980s
  • first commercial tinted soft contact lens
  • first commercial tinted GP

Market Trends

Proportion of soft lens fits according to lens design.
Global Perspectives

- Iris Implants
- Laser ablation of iris melanocytes
- Corneal tattooing

Material Considerations

- PMMA
- Hydrogel
- Silicone Hydrogel
- Gas Permeable

What’s in a tint?

- Visibility tint
- Enhancer tint
- Opaque tint
- Prosthetic Lens Designs
- Fashionable Wear

Color Comeback

Traditional Prosthetic CL Uses

Leukocoria  Heterochromia  Anisocoria

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Case Report

18 yo white female
• CC: My right eye looks funny
• Ocular Hx: Toxocara infection at 4 yo
  • Leukocoria – whitening of the pupil (cataract)
  • Heterochromia – iris different color between eyes
  • Anisocoria – different size pupils

Building a Lens

1. Lens 1: Opaque Pupil
2. Lens 2: Chestnut Iris Tint
3. Lens 3: Limbal Ring

Results

Initial Lens Order

Second Lens Order

When to Use Prosthetic/Tinted Lenses

• Iris anomalies or injuries
  • Light sensitivity
• Color deficiencies
  • X Chrom® Lens
• Retinal abnormalities
• Cosmesis
• Sport tints

How It Works?

• Order from companies
  • Helpful to send picture of pt against white background with white shirt on for matching
• Tint in office
  • Solid tints without significant detail

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**Not Medically Necessary**

- Athletes
  - Many sports can’t wear glasses/sunglasses
- Enhance ability to see certain colors
- Intimidation factor?

**Ferris Hockey Team**

**Benefits?**

- Severe impairment
- Improvement in:
  - Task functions
  - Self-confidence
- Life-changing experience

**Fashionable Wear**

**Diamond Studded CL?**

**Ocular Health Considerations**

- Oxygen transmission
- Care & Handling

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