Contact Lenses In Pediatrics (CLIP) Study
Overview of findings and conclusions
STUDY PROTOCOL

• 169 subjects
  • 84 children (ages 8-12)
  • 85 teenagers (ages 13-17)
• No CL wear in past
• Refractive error only; good ocular health
• Three clinical testing sites
  ➢ The Ohio State University College of Optometry
  ➢ New England College of Optometry
  ➢ University of Houston College of Optometry
STUDY PROTOCOL, cont.

• CL fitting*/testing
• I&R training
• Follow-up visits at 1 week, 1 month, 3 months

*Fit with ACUVUE ADVANCE® with HYDRACLEAR® (85%) or ACUVUE ADVANCE® for Astigmatism (15%)
Contact Lenses In Pediatrics (CLIP) Study

Patient Outcomes: Eye Health
PATIENT SAFETY

• Biomicroscopic evaluations conducted
  ➢ Signs increased from baseline to 1 week to 1 month
  ➢ Reduced to below baseline by 3-month visit
  ➢ Indicates adaptation period for CL wear

• No serious adverse effects reported
  ➢ Three non-serious AEs reported; all resolved completely

• No obvious differences in biomicroscopic findings between children and teens

• Non-compliance may reduce with parent education/support
Contact Lenses In Pediatrics (CLIP) Study

Patient Outcomes: Ease of Fit
FITTING TIME:

Essentially the same for children and teens
ADAPTATION TO CONTACT LENSES:
Steady improvement for children and teens

Children and teens readily adapt to contact lenses

- By 3 months, 83% of children and 89% of teens found it easy to clean and take care of their lenses
- Nearly three-quarters of children ages 8 to 11 preferred contact lenses to spectacles

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ADAPTATION TO CONTACT LENSES:
Less parental assistance over time

By 3 months, patients needed little if any parental assistance
Contact Lenses In Pediatrics (CLIP) Study

Patient Outcomes: Quality of Life
**Pediatric Refractive Error Profile (PREP)**

- Pediatric quality of life scale for children and teens affected only by refractive error
- Scored from 1 (negative) to 5 (positive)
- Scaled from 0 (poor) to 100 (good)
- 26 statements; 10 sub-scales (Overall PREP = mean of all items)

Sample questions:

<table>
<thead>
<tr>
<th>I like to wear my glasses</th>
<th>Strongly disagree</th>
<th>Disagree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>It’s easy to clean and take care of my glasses</td>
<td>Strongly disagree</td>
<td>Disagree</td>
<td>Neutral</td>
<td>Agree</td>
<td>Strongly agree</td>
</tr>
</tbody>
</table>
PREP Score:
Switch to contact lenses improves quality of life
Post-CLIP Study

Lifestyle Questionnaire:
*Children and teens report success in key areas*

<table>
<thead>
<tr>
<th></th>
<th>Children</th>
<th>Teens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good vision</td>
<td>94%</td>
<td>83%</td>
</tr>
<tr>
<td>Improved performance in activities</td>
<td>68%</td>
<td>65%</td>
</tr>
<tr>
<td>Positive reaction from others</td>
<td>76%</td>
<td>73%</td>
</tr>
<tr>
<td>Easy to care for</td>
<td>83%</td>
<td>89%</td>
</tr>
</tbody>
</table>
## Post-CLIP Study

### Lifestyle Questionnaire:

*Parents evaluate success comparably to patients*

<table>
<thead>
<tr>
<th></th>
<th>Parent of Child</th>
<th>Parent of Teen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good vision</td>
<td>96%</td>
<td>92%</td>
</tr>
<tr>
<td>Improved performance in activities</td>
<td>86%</td>
<td>80%</td>
</tr>
<tr>
<td>Positive reaction from others</td>
<td>86%</td>
<td>88%</td>
</tr>
<tr>
<td>Easy to care for</td>
<td>87%</td>
<td>80%</td>
</tr>
</tbody>
</table>
Parents’ Perspectives on Success:
Give high marks for stability, care, responsibility

<table>
<thead>
<tr>
<th>Question (from PREP)</th>
<th>Parent of Child % Agree</th>
<th>Parent of Teen % Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>The contact lenses do not fall out of my child’s eyes</td>
<td>90%</td>
<td>89%</td>
</tr>
<tr>
<td>My child finds it easy to clean and take care of his/her contact lenses</td>
<td>89%</td>
<td>92%</td>
</tr>
<tr>
<td>Contact lenses make my child feel better about himself/herself, more confident</td>
<td>80%</td>
<td>80%</td>
</tr>
<tr>
<td>My child is demonstrating that he/she is responsible enough to wear contact lenses</td>
<td>86%</td>
<td>89%</td>
</tr>
<tr>
<td>I feel that contact lenses are right for my child</td>
<td>89%</td>
<td>84%</td>
</tr>
</tbody>
</table>
UV Protection as Factor in Contact Lens Selection

Parents strongly prefer UV-protective lenses

- Parents surveyed about importance of UV protection in choosing contact lenses
- 85% of parents stated that ultraviolet light protection was very important or important when deciding what lenses their child or teen should wear
ACUVUE® Brand Contact Lenses are indicated for vision correction. Eye problems, including corneal ulcers, can develop. Some wearers may experience mild irritation, itching or discomfort. Lenses should not be prescribed if patients have any eye infection, or experience eye discomfort, excessive tearing, vision changes, redness or other eye problems. Consult the package insert for complete information. Complete information is also available from VISTAKON®, Division of Johnson & Johnson Vision Care, Inc., by calling 1-800-843-2020 or by visiting ecp.acuvue.com.

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Journal References: Optometry and Vision Science
Addendum: *Pediatric Refractive Error Profile (PREP)*

- **Overall Vision**
  - problems seeing clearly
  - vision is very clear
  - vision is very blurry

- **Near vision**
  - no problems seeing computer or video games
  - problems reading

- **Far vision**
  - see clearly far away
  - problems seeing movies or far away

- **Symptoms**
  - eyes hurt
  - nose, ears or head hurts
  - eyes itch, burn or feel dry
  - eyes feel good

- **Appearance**
  - I like how I look
  - I don’t like how I look
  - If I wore ______ I would look better

- **Satisfaction**
  - I like to wear my…

- **Activities**
  - no problems when I play outdoors
  - bothered when I play sports, dance or other activities

- **Academics**
  - I do better at school
  - I do better on tests

- **Handling**
  - It is easy to take care of…
  - It is easy to put in and take out…
  - get lost or broken easily
  - fall out of my eyes

- **Peer Perceptions**
  - my friends make fun of me
  - my friends want to wear ______ too
  - my friends like the way I look

- **Overall PREP**
  - Average of all questions