



# 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



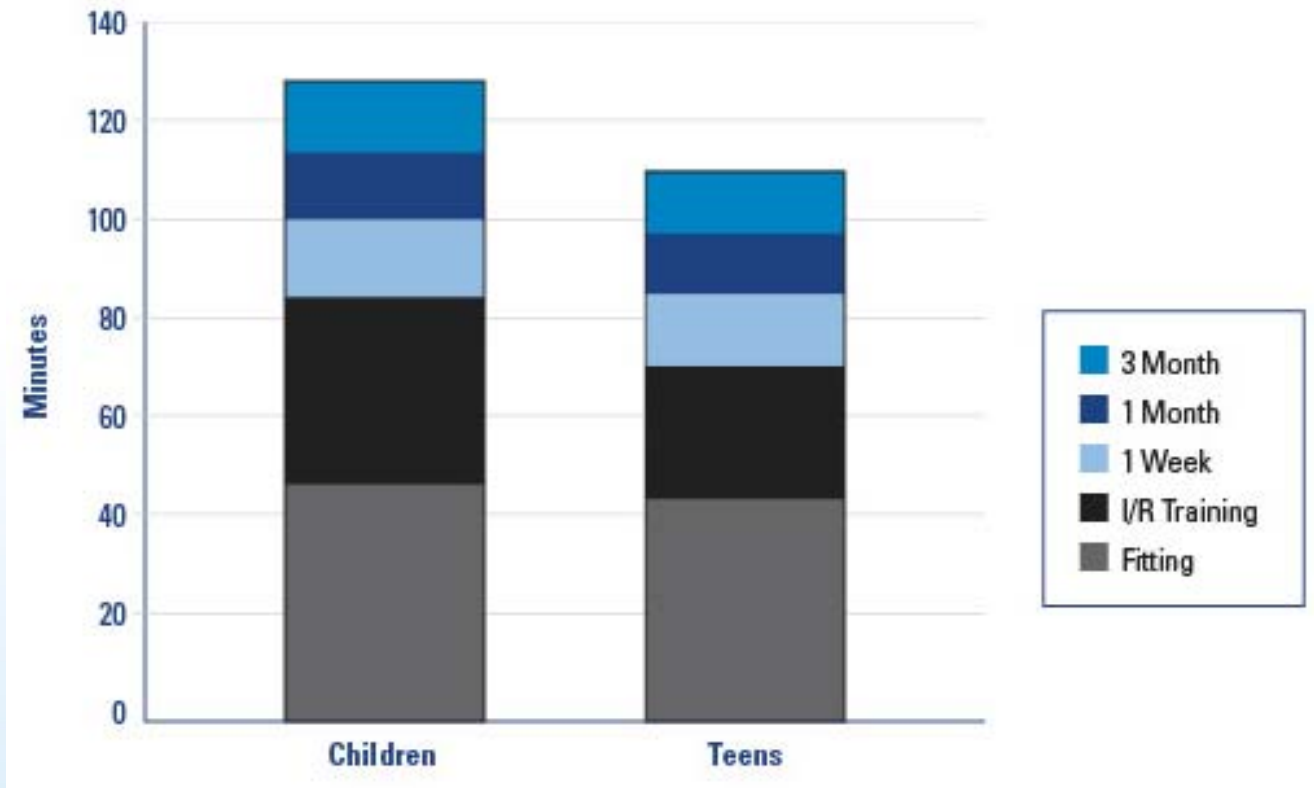
# Contact Lenses In Pediatrics (CLIP) Study

Patient Outcomes: Ease of Fit



# FITTING TIME:

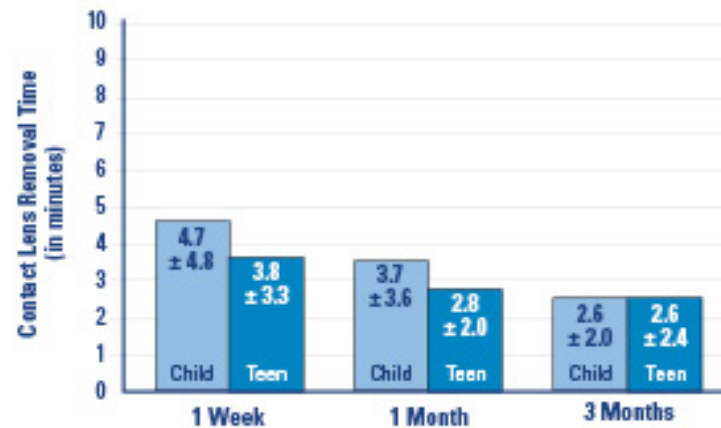
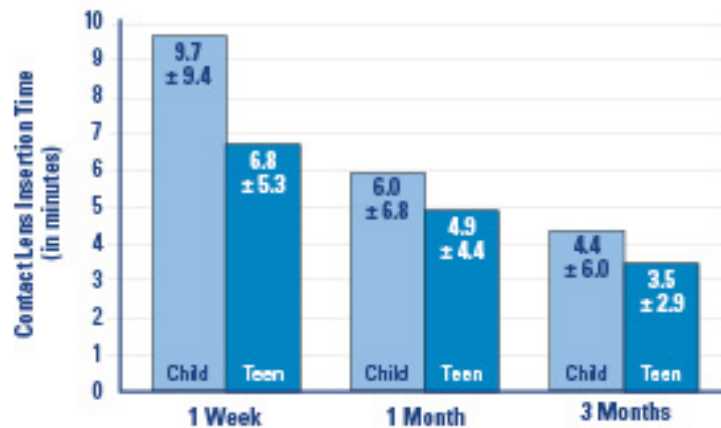
*Essentially the same for children and teens*



# ADAPTATION TO CONTACT LENSES:

*Steady improvement for children and teens*

Children and teens readily adapt to contact lenses



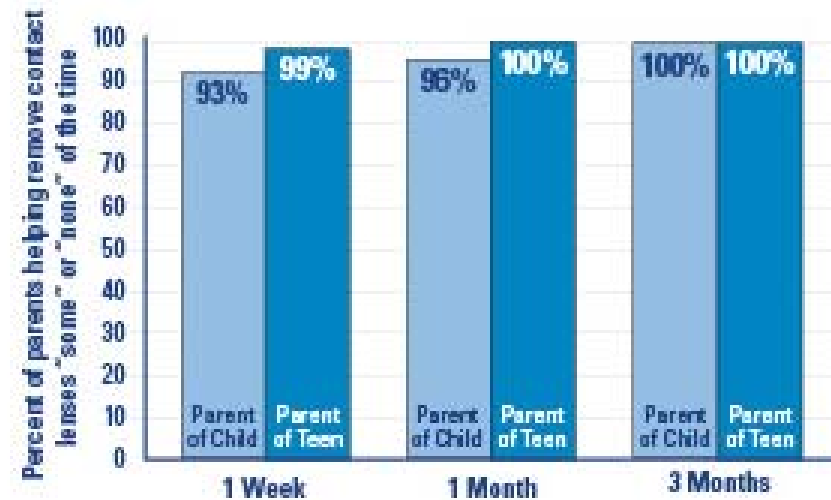
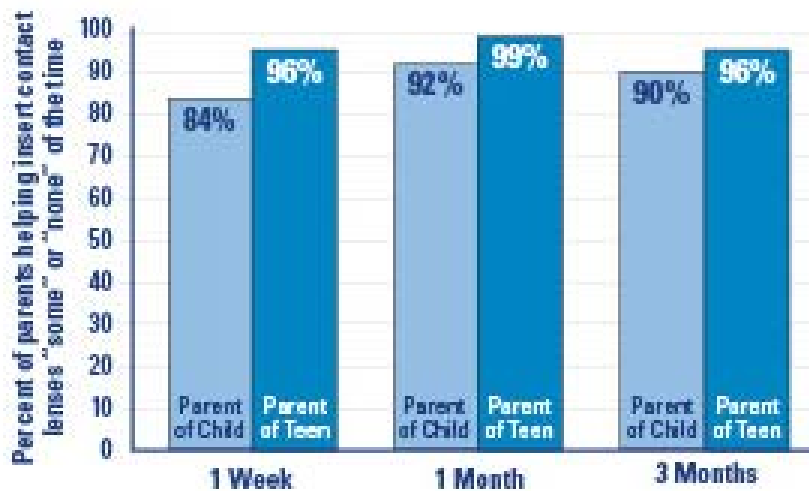
- By 3 months, 83% of children and 89% of teens found it easy to clean and take care of their lenses
- Nearly three-quarters of children ages 8 to 11 preferred contact lenses to spectacles



# 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)

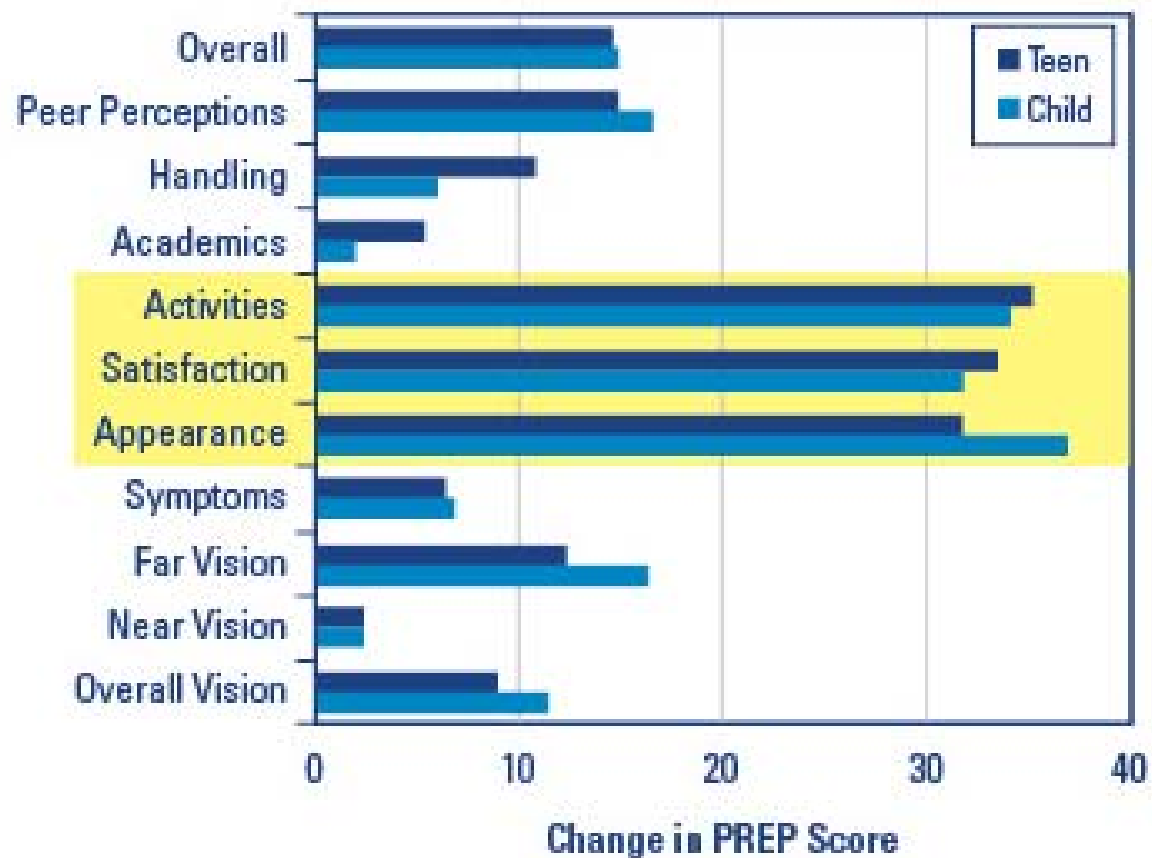
- Pediatric quality of life scale for children and teens affected only by refractive error
- Scored from 1 (negative) to 5 (positive)
- Scaled from 0 (poor) to 100 (good)
- 26 statements; 10 sub-scales (Overall PREP = mean of all items)

Sample questions:

I like to wear my glasses	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
It's easy to clean and take care of my glasses	Strongly disagree	Disagree	Neutral	Agree	Strongly agree

# PREP Score:

*Switch to contact lenses improves quality of life*



# Post-CLIP Study

## Lifestyle Questionnaire:

*Children and teens report success in key areas*

	Children	Teens
Good vision	94%	83%
Improved performance in activities	68%	65%
Positive reaction from others	76%	73%
Easy to care for	83%	89%

# Post-CLIP Study Lifestyle Questionnaire:

*Parents evaluate success comparably to patients*

	Parent of Child	Parent of Teen
Good vision	96%	92%
Improved performance in activities	86%	80%
Positive reaction from others	86%	88%
Easy to care for	87%	80%

# Parents' Perspectives on Success:

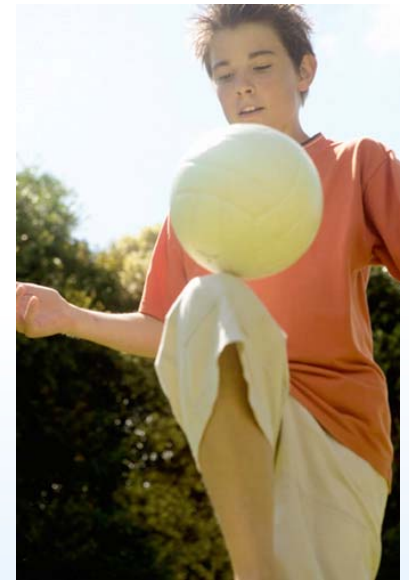
*Give high marks for stability, care, responsibility*

Question (from PREP)	Parent of Child % Agree	Parent of Teen % Agree
The contact lenses do not fall out of my child's eyes	90%	89%
My child finds it easy to clean and take care of his/her contact lenses	89%	92%
Contact lenses make my child feel better about himself/herself, more confident	80%	80%
My child is demonstrating that he/she is responsible enough to wear contact lenses and properly care for them	86%	89%
I feel that contact lenses are right for my child	89%	84%

# 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





# Study Sponsor

## VISTAKON<sup>®</sup>, a division of Johnson & Johnson Vision Care Companies

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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

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