

Chinese Parents' Perspective on Myopia: A Cross-Sectional Survey Study

Running head: Perspectives on myopia in Chinese parents.

Authors: Yangyi Huang^{1 2 3 4*}, MD; Zhi Chen^{1 2 3 4*}, PhD; Bingjie Wang⁵, MD; Jing Zhao^{1 2 3 4}, MD, PhD; Xueyi Zhou^{1 2 3 4}, MD; Xiaomei Qu^{1 2 3 4}, MD, PhD; Xiaoying Wang^{1 2 3 4}, MD, PhD; Xingtao Zhou^{1 2 3 4#}, MD, PhD

*YH and ZC contributed equally to this work and share the first authorship.

Institutions:

1. Eye Institute and Department of Ophthalmology, Eye & ENT Hospital, Fudan University, Shanghai 200031, China
2. NHC Key Laboratory of Myopia (Fudan University); Key Laboratory of Myopia, Chinese Academy of Medical Sciences, Shanghai, 200031, China
3. Shanghai Research Center of Ophthalmology and Optometry
4. Shanghai Engineering Research Center of Laser and Autostereoscopic 3D for Vision Care
5. School of optometry and vision science, University of New South Wales, Australia

Correspondence:

Xingtao Zhou,

Department of Ophthalmology and Vision Science, Eye and ENT Hospital of Fudan University, No.19 Baoqing Road, Xuhui District, Shanghai, China.

doctzhouxingtao@163.com

Supplementary Table 1. Respondents Characteristics	
Characteristics	Respondents, No. (%) (N = 2500)
Gender of the parents	
Male	780 (31.2)
Female	1720 (68.8)
Gender of the children	
Male	1327 (53.1)
Female	1173 (46.9)
City level	
First tier	798 (31.9)
Second tier	849 (34.0)
Third tier	853 (34.1)
Refractive status of the parents	
Myopic	1262 (50.5)
Non-myopic	1238 (49.5)
Refractive status of the children	
Myopic	1447 (57.9)
Non-myopic	1053 (42.1)

Parental myopia survey

The following survey pertains to the opinions on “myopia” of the parents and consists of 21 items. Please try to answer all questions based on your daily experience. These answers would help us understand the knowledge gap between doctors and parents and evaluate strategies for myopia prevention and control. By participating in this survey, your basic information including gender and region has been collected automatically by the platform and we promise that it would not be shared for any commercial use. Thank you and we appreciate your participation.

Section 1: Basic Characteristics

1. How old is your child?

- a) 1 – 6 years old
- b) 7 – 9 years old
- c) 10 – 12 years old
- d) 13 – 15 years old

2. What gender is your child?

- a) Male
- b) Female

3. Is your child myopic?

- a) Yes.
- b) No.

4. Are you myopic?

- a) Yes.
- b) No.

Section 2: Knowledge about Myopia

5. Do you think myopia is a disease?

- a) Yes.

b) No.

6. Which of the following best describes your understanding of the damage of myopia?

a) The higher the degree of myopia, the greater the risk of eye complications.

b) The higher the degree of myopia, the lower the risk of eye complications.

c) The degree of myopia is not related to the risk of complications.

d) I don't know.

7. What degree of myopia do you think will cause pathological changes in the eye?

a) Low, moderate, and high myopia would all cause pathological changes.

b) Only moderate and high myopia would cause pathological changes.

c) Only high myopia would cause pathological changes.

d) I don't know.

8. Please choose your understanding of the following concepts, choices: a) Never heard of it,

b) I've heard of it, but I don't fully understand it, and c) I know it and I understand what it means.

8-1 Astigmatism

8-2 High myopia

8-3 Axial length

8-4 Manifest refraction

Section 3: Attitudes toward Myopia Prevention and Control

9. Do you think myopia development could be prevented?

a) I haven't thought about it.

b) Yes.

c) No.

d) I don't know.

10. Do you think myopia progression could be controlled?

a) Yes.

b) No.

c) I don't know.

11. What do you think will happen if your child receives non-surgical treatment for myopia?

- a) The progression of myopia would be delayed.
- b) The degree of myopia would be maintained.
- c) The degree of myopia would be lower.

Section 4: Practices of Myopia Prevention and Control

12. Will you take your child to do outdoor activities?

- a) Yes.
- b) No.

13. How long is the outdoor time for your child each week?

- a) ≤ 7 hours
- b) 7 to ≤ 14 hours
- c) 14 to ≤ 21 hours
- d) 21 hours

14. Will you take your child to do eye examinations?

- a) Yes.
- b) No.

15. What is the frequency of eye examination of your child?

- a) Never
- b) Sometimes, especially when I think it is necessary.
- c) Once every six months.
- d) Once every year.
- e) Once every two years.

16. Have you ever tried to prevent myopia development?

- a) Yes.
- b) No.

17. Which of the following measures have you taken to prevent your child from myopia?

- a) Improve the environment of the eye using.
- b) Remind my child to rest after a long-time near work.

- c) Use some eye drops to relieve the asthenopia of my child.
- d) Remind my child to have more outdoor time.
- e) Remind my child not to use their eyes in a dim environment, including reading and watching electronic devices.
- f) Remind my child not to use electronic devices.
- g) Remind my child not to do near work under a shaky situation.
- h) Increase the frequency of eye massage.
- i) Remind my child to do eye exercises.
- j) Take my child to regular eye examinations.
- k) Remind my child to eat a healthy diet.
- l) Do visual training.
- m) Control the near work distance.
- n) Reduce the time of online courses.

18. Has your child received any kind of treatment for myopia control?

- a) Yes.
- b) No.

19. Which of the following measures have you taken to control myopia progression?

- a) Wear glasses
- b) Wear orthokeratology
- c) Wear soft contact lenses
- d) Using eye drops
- e) Taking oral drugs
- f) Visual training
- g) Chinese traditional medicine, including massage and acupuncture
- h) Other products

19-1. If you choose “wear glasses”, what kind of glasses have you used?

- a) Single-vision spectacles
- b) Spectacles with specific designs of myopia control

20. Do you think the above strategies are effective in myopia prevention or control?

- a) This worked well for my child.

- b) This is not effective
- c) I don't know.

Section 5. Other Related Information.

21. Please share any related information or additional comments/suggestions about your opinions on myopia, myopia prevention, and control strategies here.
