

**Intermittent Exotropia Questionnaire
(IXTQ)**

(December 2014 version)

PROXY

Instructions for parent or legal guardian

The PROXY Intermittent Exotropia Questionnaire is a short questionnaire with statements about how you think your child's eye condition affects your child in their everyday life.

If you are unable to complete this on your own, please ask for someone to assist you.

Instructions:

- On the following page is a list of things that might be a problem for your child.
- Please respond to EACH statement by circling the response that best reflects how you think your child feels.
- Circle only ONE response for each statement.
- Please answer based on experiences during the past month.
- If you are not sure how to respond, please circle the response you think is most appropriate.

Person completing questionnaire (*circle one*):

Mother	Father	Other legal guardian
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Child's Name: _____

Medical record #: _____

Date ___/___/___

1) My child worries about his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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2) My child is bothered about people wondering what is wrong with his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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3) My child is bothered because they have to wait for their eyes to clear up

Never	Almost never	Sometimes	Often	Almost always
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4) Kids tease my child because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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5) My child is bothered when adults say things about his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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6) My child is bothered when his/her parents say things about his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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7) It bothers my child because he/she has to shut one eye when it is sunny

Never	Almost never	Sometimes	Often	Almost always
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8) My child feels different from other kids because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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9) My child worries about what other people think of him/her because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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10) My child finds it hard to look people in the eye

Never	Almost never	Sometimes	Often	Almost always
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11) My child finds it hard to concentrate because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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12) My child's eyes make it hard for him/her to make friends

Never	Almost never	Sometimes	Often	Almost always
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**Intermittent Exotropia Questionnaire
(IXTQ)**

(December 2014 version)

PARENT

Instructions for parent or legal guardian

The PARENT Intermittent Exotropia Questionnaire is a short questionnaire with statements about how your child's eye condition may affect you in your everyday life.

If you are unable to complete this on your own, please ask for someone to assist you.

Instructions:

- On the following page is a list of things that might be a problem for you.
- Please respond to EACH statement by circling the response that best reflects how you feel.
- Circle only ONE response for each statement.
- Please answer based on your experiences during the past month.
- If you are not sure how to respond, please circle the response you think is most appropriate.

Person completing questionnaire (*circle one*)

Mother	Father	Other legal guardian
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Child's Name: _____

Medical record #: _____

Date ___/___/___

1) I worry about my child's eyes

Never	Almost never	Sometimes	Often	Almost always
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2) I worry that my child will be less independent because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
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3) I worry that my child will have permanent damage to his/her eyes

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

4) I worry that my child doesn't see well

Never	Almost never	Sometimes	Often	Almost always
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5) I worry about how my child's eyes will affect him/her socially

Never	Almost never	Sometimes	Often	Almost always
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6) I worry that my child will get hurt physically because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

7) I worry about the possibility of surgery

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

8) I worry about my child becoming self-conscious because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

9) I worry that my child will not be able to see the board at school

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

10) I worry about other kids teasing my child because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

11) It worries me what others will think about my child because of his/her eyes

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

Medical record #: _____

12) I worry that my child's eye condition will affect his/her personality

Never	Almost never	Sometimes	Often	Almost always
-------	--------------	-----------	-------	---------------

13) I worry that my child's eyes will affect his/her social life if nothing is done

Never	Almost never	Sometimes	Often	Almost always
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14) I worry about my child's eyesight long term

Never	Almost never	Sometimes	Often	Almost always
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15) I worry about my child's depth perception

Never	Almost never	Sometimes	Often	Almost always
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16) I worry about whether or not my child should have surgery

Never	Almost never	Sometimes	Often	Almost always
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17) I worry about my child's ability to make friends

Never	Almost never	Sometimes	Often	Almost always
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Intermittent Exotropia Questionnaire (IXTQ)

Instructions for clinician / researcher

The Intermittent Exotropia Questionnaire (IXTQ) has been developed to assess the impact of intermittent exotropia (IXT) on both the child with IXT and the parent of the child with IXT. The IXTQ is comprised of 3 parts:

- 1) Child questionnaire: Assesses the impact of IXT on health related quality of life (HRQOL) of children ages 5 to 17 years. There are separate questionnaires for children aged 5 to 7 years and children aged 8 to 17 years.
- 2) Proxy questionnaire: Assesses the impact of IXT on HRQOL of children ages 2 to 17 years with IXT.
- 3) Parent questionnaire: Assesses the impact of IXT on HRQOL of the parent or legal guardian of children with IXT.

The IXTQ may be used in regular clinical practice or as a research tool. The IXTQ is intended to be completed by the child and the parent in a supervised clinical setting.

Please use the IXTQ along with the IXTQ instructions for each of the 3 questionnaires.

- Clinicians should review the *IXTQ Instructions for Interviewers* for the Child questionnaire. If possible, children should be positioned such that they are unable view their parents during testing and parents should be advised not to influence their child's responses. Children (5-7 years old) should be allowed to use the accompanying matching card.
- Parents or legal guardians should review *IXTQ Instructions for Parents or Legal Guardians* of the corresponding questionnaires prior to completing the Proxy and Parent questionnaires.

The IXTQ is available without charge and may be used in its unaltered entirety without restriction. If used for research, the questionnaire must be identified in all pertinent publications by name and by citing the original manuscript in *Ophthalmology* (Hatt SR, Leske DA, Yamada T, Bradley EA, Cole SR, Holmes JM. Development and initial validation of quality of life questionnaires for intermittent exotropia. *Ophthalmology* 2010;117(1):163-168).

Scoring the IXTQ

It is recommended that the IXTQ be scored using the Rasch IXTQ look-up tables available at <http://pedig.jaeb.org/ViewPage.aspx?PageName=Reference>. The tables may be downloaded and used as an automated way to provide Rasch-calibrated scores (Leske DA, Holmes JM, and Melia BM. Evaluation of the Intermittent Exotropia Questionnaire using Rasch analysis. *JAMA Ophthalmol* 2015 in press). Alternatively, the IXTQ may be scored using non-Rasch methods as outlined below:

Intermittent Exotropia Questionnaire (IXTQ)

Child Questionnaire

For each of the 12 Child questionnaire items, responses are scored as follows:

Child questionnaire for children ages 5 to 7 years

Response	Score
Not at all	100
Sometimes	50
A lot	0

Child questionnaire for children ages 8 to 17 years

Response	Score
Never	100
Almost never	75
Sometimes	50
Often	25
Almost Always	0

Child Score

- The overall IXTQ Child score is calculated as the mean of all 12 item scores.
- If an item is unanswered, the overall score is calculated as the mean of all the *answered* items.
- Maximum possible overall score is 100 (best HRQOL) and minimum is 0 (worst HRQOL).

Proxy Questionnaire

For each of the 12 Proxy questionnaire items, responses are scored as follows:

Response	Score
Never	100
Almost never	75
Sometimes	50
Often	25
Almost Always	0

Proxy Score

- The overall IXTQ Proxy score is calculated as the mean of all 12 item scores.
- If an item is unanswered, the overall score is calculated as the mean of all the *answered* items.
- Maximum possible overall score is 100 (best HRQOL) and minimum is 0 (worst HRQOL).

Intermittent Exotropia Questionnaire (IXTQ)

Parent Questionnaire

For each of the 17 Parent questionnaire items, responses are scored as follows:

Response	Score
Never	100
Almost never	75
Sometimes	50
Often	25
Almost Always	0

Overall Parent Score

- The overall IXTQ Parent score is calculated as the mean of all 17 item scores.
- If an item is unanswered, the overall score is calculated as the mean of all the *answered* items.
- Maximum possible overall score is 100 (best HRQOL) and minimum is 0 (worst HRQOL).

Function Subscale

- The function subscale of the IXTQ Parent questionnaire is calculated as the mean of items 1-4, 6, 9, and 14-15.
- If an item is unanswered, the overall score is calculated as the mean of all the *answered* items.
- Maximum possible function score is 100 (best HRQOL) and minimum is 0 (worst HRQOL).

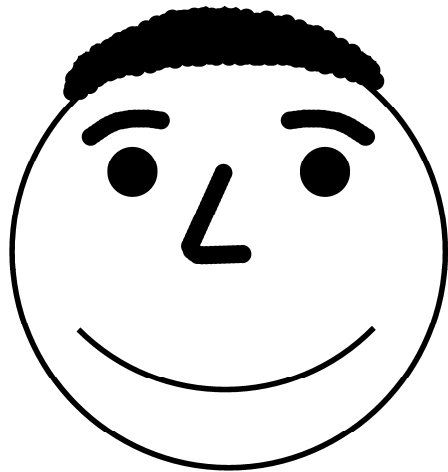
Psychosocial Subscale

- The psychosocial subscale of the IXTQ Parent questionnaire is calculated as the mean of items 5, 8, 10-13, and 17.
- If an item is unanswered, the overall score is calculated as the mean of all the *answered* items.
- Maximum possible psychosocial score is 100 (best HRQOL) and minimum is 0 (worst HRQOL).

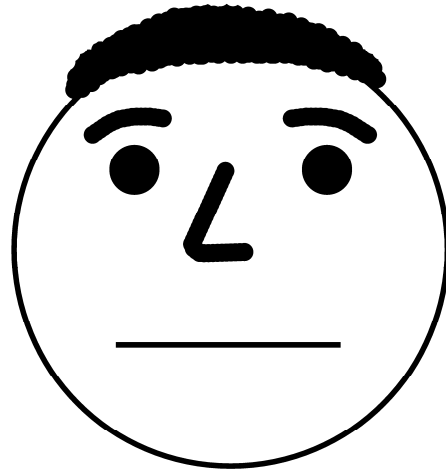
Surgery Subscale

- The surgery subscale of the IXTQ Parent questionnaire is calculated as the mean of items 7 and 16.
- If an item is unanswered, the overall score is calculated as the mean of all the *answered* items.
- Maximum possible surgery score is 100 (best HRQOL) and minimum is 0 (worst HRQOL).

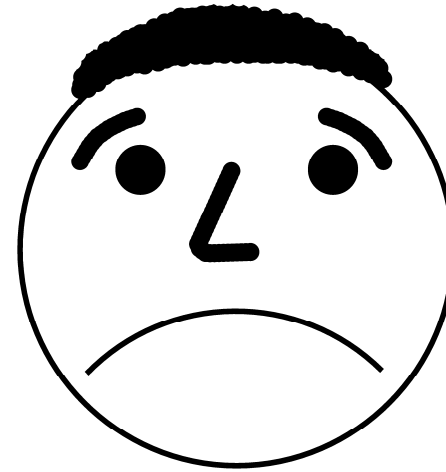
Intermittent Exotropia Questionnaire (IXTQ)



Not at all



Sometimes



A lot