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# **Glaucoma Quality of Life Questionnaire 17 & 36 (GLAUQOL-17 & 36)**

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The full complete 30 page version includes –

- GLAUQOL Clinical Validity
- GLAUQOL-17 & 36 Scoring/ Administration instructions
- GLAUQOL-36 Complete questionnaire/  
Assessment (36 sets of question criteria)
- GLAUQOL-17 Complete questionnaire/ Assessment  
(17 sets of question criteria)

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# Measurement of health-related quality of life with glaucoma: validation of the Glau-QoL 36-item questionnaire

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## ABSTRACT.

**Purpose:** To validate a glaucoma-specific health-related quality of life (HRQoL) questionnaire: the Glau-QoL<sup>®</sup>.

**Methods:** Patients with ocular hypertension (OHT) or glaucoma took part in a cross-sectional psychometric validation study ( $n = 573$ ) and a separate reproducibility study ( $n = 244$ ). Patients answered the 36-item Glau-QoL<sup>®</sup>, designed from in-depth patient interviews.

**Results:** The clinical validity of the Glau-QoL<sup>®</sup> was excellent and clearly demonstrated that as disease severity and visual field impairment increased, HRQoL scores for the Psychological Wellbeing, Self-image, Daily Life, Driving, Anxiety and Burden of Treatment domains were negatively affected. Increased age and lower visual acuity were also associated with lower HRQoL scores, although to a lesser extent than the previously mentioned criteria. Worsening of HRQoL domains correlated with the clinical stage of glaucoma: Anxiety and Burden of Treatment scores dropped noticeably when patients were first diagnosed and started treatment, followed by a decrease in scores for Driving, Daily Life, Psychological Wellbeing, and Self-image as clinical conditions worsened. Psychometric validation showed acceptable convergent and discriminant validity of the Glau-QoL<sup>®</sup>, and good reproducibility, with intraclass correlation coefficients (ICC) and concordance correlation coefficients (CCC)  $\geq 0.69$ . Internal consistency reliability was high (Cronbach's  $\alpha$  coefficients  $> 0.70$ ) for the Daily Life, Psychological Wellbeing, Burden of Treatment and Driving domains; acceptable (coefficients of 0.65 and 0.68, respectively) for the Self-image and Anxiety domains; and weak (coefficient = 0.58) for the Confidence in Health Care domain.

**Conclusions:** The Glau-QoL<sup>®</sup> questionnaire is a valid and specific HRQoL instrument that demonstrates excellent correlations with disease progression in patients with glaucoma and/or OHT.

**Key words:** primary open-angle glaucoma – ocular hypertension – questionnaire – health-related quality of life – psychometric validation

## Introduction

The term 'glaucoma' covers a range of serious eye disorders that can lead to blindness. It is thought to be the principal cause of irreversible sight impairment in adults and is accompanied by detrimental consequences on health-related quality of life (HRQoL) (Landers 1982; Béchetoille 1987). The prevalence of glaucoma is expected to rise significantly in the coming years because of growth in the elderly population. Thus, in addition to the clinical impact of glaucoma, the economic burden of the disease represents a serious concern (Lindblom et al. 2006).

Primary open-angle glaucoma (POAG) accounts for up to 90% of all glaucoma cases reported in western populations (Kroese et al. 2002). It is an insidious disease: it is often not until long after the commencement of POAG that an affected individual feels discomfort or experiences visual impairment. Good management of POAG relies therefore on early diagnosis and commencement of appropriate treatment (topical hypotonic medicinal treatments, laser treatment

**This is the end of the SAMPLE GLAUQOL Clinical Validity.  
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**SCALING AND SCORING OF THE**  
**Glaucoma Quality of Life Questionnaire**  
**(GlauQOL-36 Research Version)**

The GlauQOL-36 is composed of 36 items investigating 7 dimensions.

**DESCRIPTION OF THE QUESTIONNAIRE:**

Dimensions	Number of Items	Cluster of Items	Item Reversion	Score range	Direction of Dimensions
Anxiety	4	24-27	24, 25		
Self-image					
Psychological					
Daily life					
Driving					
Constraints					
Care	4	33-36	33-36		

**SCORING OF DIMENSIONS:**

Item scaling	
Weighting of items	No
Extension of the Scoring Scale	Score by dimension
Scoring Procedure	Mean of non-missing items in the dimension + Scores rescaled on a 0-100 scale
Interpretation and Analysis of missing data	Half-scale rule, i.e. the score is calculated if at least 50% of the items in the dimension are completed
Interpretation and Analysis of 'non-concerned' answers	

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**SCALING AND SCORING OF THE**  
**Glaucoma Quality of Life Questionnaire**  
**(GlauQOL-17 Practice Version)**

The GlauQOL-17 is composed of 17 items investigating 7 dimensions.

**DESCRIPTION OF THE QUESTIONNAIRE:**

Dimensions	Number of Items	Cluster of Items	Item Reversion	Score range	Direction of Dimensions
Anxiety	3	1-3		0-12	
Self-image					
Psychological					

**SCORING OF DIMENSIONS:**

Item scaling
Weighting of items
Extension of the Scoring Scale
Scoring Procedure

**This is the end of the SAMPLE GLAUQOL-17 scoring intructions. Please return to page 1 to purchase full complete version.**

FULL NAME OF PATIENT: .....

# GlauQOL Questionnaire-17

©

Before you start filling out the questionnaire, thank you to write the date today:

/ \_\_\_ / \_\_\_ // \_\_\_ / \_\_\_ // \_\_\_ / \_\_\_ /  
Day Month Year

## What is this survey?

This questionnaire was designed by researchers, with doctors and patients to allow learn about the daily lives of people who, like you, are followed for glaucoma or a risk for glaucoma.

## How to answer the questionnaire?

The following questions address the problems that you can have every day because of your treatment and your potential vision problems associated with glaucoma or glaucoma risk, the way you deal, and the consequences this has on your life everyday.

Thank you for completing this questionnaire in a quiet place and if possible alone (e). Take all the time that will be required.

If you are not sure how to answer, choose the location closest to your answer. There is no "right" answer or "false".

Answer the questions by marking a circle around the best corresponds to your case.

Some questions are about your vision problems. If you wear glasses or contact lenses, say how it goes with your glasses or contact lenses.

Thank you for your participation.

THE INFORMATION IN THIS SURVEY ARE STRICTLY CONFIDENTIAL

## ANXIETY

1 Are you concerned (s) your blood Eye?

- 0 Enormously
- 1 So much
- 2 Moderately
- 3 A little
- 4 Not at all

2. he comes to think of the risk of lose sight?

- 0 Always
- 1 Mostly
- 2 Occasionally
- 3 Rarely
- 4 Never

3. Are you afraid of having to be operated (e)?

- 0 Enormously
- 1 So much
- 2 Moderately
- 3 A little
- 4 Not at all

**This is the end of the SAMPLE GLAUQOL-17 questionnaire. Please return to page 1 to purchase full complete version.**

# Quality of Life and glaucoma

## GLAUQOL-36

Before you start filling out the questionnaire, thank you to write the date

Today:                    / \_\_ / \_\_ /        / \_\_ / \_\_ /        / \_\_ / \_\_ /  
                                  Day                    Month                    Year

### What is this survey?

This questionnaire was designed by researchers, with doctors and patients to allow to learn about the daily lives of people who, like you, are followed for a glaucoma or the risk of glaucoma. When you have completed it will be discussed with others, in a completely anonymous and confidential, in a research center.

### How to answer the questionnaire?

The following questions address the problems that you can have every day because of your treatment and your potential vision problems associated with glaucoma or glaucoma risk, your way you deal with it, and the consequences it has on your life everyday.

Thank you for completing this questionnaire in a quiet place and if possible alone (e). Take all time that will be required.

If you are not sure how to answer, choose the location closest to your answer. \_\_\_\_\_

There is no "right" answer or "false".

Answer the questions by marking a cross (X) the box that best corresponds to your case. \_\_\_\_\_

Some questions are about your vision problems. If you wear glasses or lenses contact, say how it goes with your glasses or contact lenses.

Thank you for your participation.

THE INFORMATION IN THIS SURVEY AND ARE STRICTLY ANONYMOUS  
CONFIDENTIAL

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SECTION: DAILY LIFE

BECAUSE OF YOUR PROBLEMS OR TREATMENT FOR TAKING:

1. do you have trouble reading what is written on the labels of products?

- 0 Not at all
- 1 A little
- 2 Moderately
- 3 So much
- 4 Enormously

2. do you have trouble reading books, magazines, newspapers?

- 0 Not at all
- 1 A little
- 2 Moderately
- 3 So much
- 4 Enormously
- 5 I am not concerned (e) in this issue

3. do you have any difficulties in introducing your key in the lock?

- 0 Not at all
- 1 A little
- 2 Moderately
- 3 So much
- 4 Enormously

**This is the end of the SAMPLE GLAUQOL-36 questionnaire.  
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