

1 **Seeking a practical definition of stable glaucoma: A Delphi consensus survey of UK glaucoma**  
2 **consultants.**

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29 **Abstract**

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31 Background: To generate a practical and clinically useful consensus definition of ‘stable glaucoma’ to aid  
32 provision of glaucoma services in the UK and to provide guidance for the criteria that should be used for  
33 monitoring of glaucoma patients in primary care services.

34

35 Methods: A Delphi exercise was undertaken to derive consensus through an online questionnaire.  
36 Participants were asked to score their strength of agreement for a series of clinical parameters. Results  
37 and comments from each round were used to inform subsequent rounds. A total of 3 rounds were  
38 undertaken.

39

40 Results: 32 glaucoma experts participated in the study with over 90% completion rate achieved over  
41 three rounds. Consensus was reached for the following parameters: IOP levels to be used for defining  
42 stability, visual field-testing techniques to define stability, the number of medication changes acceptable  
43 to define stability and the number of treatment medications allowed to define stability. No consensus  
44 was reached on the period of time over which stability was defined, however there was considerable  
45 agreement that longer durations of follow up (36-48 months) were required. A combination of optic disc  
46 photos and Ocular Coherence Topography (OCT) Retinal Nerve Fibre Layer (RNFL) assessment/ OCT disc  
47 structural evaluation are the preferred imaging methods for the assessment of structural stability.  
48 Oversight by a glaucoma consultant was considered important for glaucoma monitoring schemes.

49

50 Conclusion: The consensus definition of glaucoma stability generated through this Delphi exercise  
51 provides guidance for allocation of patients suitable for monitoring in primary care glaucoma monitoring  
52 schemes.

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57 **INTRODUCTION**

58

59 Over 172,000 referrals for patients with ‘suspect’ glaucoma are made to specialist Ophthalmology  
60 services in England annually, of which an estimated one third require long term follow up. (1) The  
61 referrals for suspect glaucoma in combination with Ocular Hypertension (OHT) account for over 30% of  
62 current ophthalmology outpatient activity. (2) The Royal College of Ophthalmologists (RCOphth) reports  
63 that over the next 20 years glaucoma cases are set to rise by 44%. (3)

64

65 The increasing demand on hospital services has led to the development of alternative community-based  
66 services often run by optometrists for monitoring ‘stable’ and low risk glaucoma patients. (1) (3)NICE  
67 estimates that approximately 56,320 patients out of the 169,500 currently being managed in secondary  
68 care with chronic open angle glaucoma (COAG), suspect COAG and OHT could be managed in the  
69 community. (4) The NICE guidelines for managing glaucoma outline the general principles of monitoring  
70 patients who have, or are suspected of having, COAG or OHT. (4) Intraocular pressure readings with  
71 Goldmann applanation tonometry, assessment of anterior chamber depth, assessment of the optic nerve  
72 head (including imaging) and visual field assessment should all be undertaken.

73

74 Despite the move to commission a greater number of community services for the monitoring of OHT and  
75 suspect glaucoma, (1) there is no established consensus on the clinical definition of ‘Stable Glaucoma’  
76 currently available in the literature. This definition is left to the discretion of local service providers and  
77 so it is likely that there is inconsistency in how patients are monitored in these community-based clinics.

78 A definition of ‘stable glaucoma’ would not only inform the effective design and commissioning of  
79 glaucoma services in the NHS by identifying those patients who can safely be monitored outside a  
80 secondary care environment, but also contribute to developing standards for these patients to be  
81 managed safely within the community and aid in accurately identifying those who need to be re-referred  
82 back to secondary care allowing consistent delivery of glaucoma services.

83

84 The aim of this study is:

- 85 1. To establish a consensus on the definition of “stable” glaucoma amongst consultant  
86 ophthalmologists with a recognised expertise in glaucoma.
- 87 2. To evaluate which factors are important when discharging ‘stable glaucoma’ patients to  
88 different oversight models of community-based care.

89

## 90 **METHOD**

91

92 An expert panel, consisting of Ophthalmology consultants with glaucoma subspecialist interest in the UK,  
93 were consulted in an adapted (3-round) Delphi exercise (5) (6) (7) to establish consensus on the definition  
94 of stable glaucoma.

95 We approached 33 of the 150 glaucoma specialists registered with the RCOphth. The group was a  
96 representative mix of teaching and district general hospital consultants and geographical distribution  
97 within the UK. The experts were identified via their membership of the UK and Eire Glaucoma Society  
98 and initially approached via an email which described the purpose of the exercise. Thirty-two responded  
99 to confirm their interest in participating and this was deemed to be an appropriate number of  
100 respondents to undertake a valid Delphi process. They were provided with further information about the  
101 survey and were subsequently involved in the Delphi process. No incentives were offered to participants.  
102 Prior research has suggested that a panel with a minimum of twelve members is required for the findings  
103 of a Delphi exercise to be considered valid. (5)

104

105 The University of Nottingham School of Medicine Ethics committee confirmed that this consultative  
106 survey did not require ethical approval.

107

108 The survey process was managed using the online survey tool *Survey Monkey* with each questionnaire  
109 designed to take around 15 minutes to complete. Participants were sent a personalised link to the  
110 questionnaires and asked to indicate their strength of agreement for each of a series of parameters using  
111 a 0-10 scoring scale, where 10 indicated strong agreement and 0 strong disagreement.

112

113 The clinical parameters examined in this way were:

- 114 1. Time Period: How long should a patient be monitored before being considered stable.
- 115 2. Visual Field Methods: Which Visual field (VF) assessment methods should be used to define  
116 stability.
- 117 3. Imaging Methods: Which imaging assessment methods should be used to define stability.
- 118 4. Intra-ocular pressure (IOP): What IOP level should be used to define stability?
- 119 5. Use of drops: Whether the total number of IOP lowering agents drops being used by a patient  
120 or a change in number of drops required should be used to define stability.
- 121 6. Consultant Oversight: the nature and clinical expertise of the consultants overseeing patients  
122 within community monitoring services.

123

124 After each round scores were synthesised and descriptive statistics for all (whole group) responses were  
125 generated for each parameter. A group median score 8-10 was considered to indicate 'strong agreement'  
126 with a parameter; a median score 0-2 strong disagreement. The use of median scores to summarise  
127 group responses in this way is common in Delphi research (7) however, median scores in isolation may  
128 disguise a broad range of scores which might be typical of panel disagreement. To counter this and to  
129 add rigour to our Delphi process, we combined a median score with an Interquartile Range (IQR)  
130 assessment (6) (7) (8) (9). An IQR score indicates the concentration of scores across the range of scoring  
131 options; an IQR of 2 indicates that 50% or more of responses are within 1 score of the median, an IQR  
132 of 8 indicates that scores are more broadly dispersed. To be confident that agreement about parameters  
133 had been reached we defined consensus as: a median score indicating strong agreement (8-10) or strong  
134 disagreement (0-2) in combination with an IQR of 2 points or less (demonstrating a concentration of  
135 scoring around the median). In all other circumstances, less strong agree/disagree (median 3-7) or  
136 dispersed scoring (IQR>2), consensus was not considered to have been reached.

137

138 Alongside scoring, participants were given the opportunity to offer free-text comments which might  
139 contextualize or explain their responses.

140

141 Those parameters where scoring demonstrated consensus amongst the expert panel were either  
142 accepted as a *characteristic of stable glaucoma*, or rejected from our process. These parameters were  
143 fixed and not scored in subsequent survey rounds.

144

145 Where consensus was not achieved, parameters were amended (in accordance with previous scoring  
146 and any relevant free-text comments) in such a way as to support the generation of consensus. For  
147 example, the duration of time for monitoring stable glaucoma was increased to support the generation  
148 of panel agreement about it. Revised parameters, along with summary scores from previous rounds and  
149 any indication of changes to the parameter, were included in the next iteration of the survey for scoring.

150

151 This process was repeated twice in this amended, 3-round Delphi exercise. In the final round, for  
152 parameters where consensus was not established, participants were asked to rank options in an attempt  
153 to find a weaker form of agreement about a parameter. Also in the final round an additional question,  
154 quantifying visual field progression in stable glaucoma, was added to further our understanding of Visual  
155 Field stability.

156

## 157 **RESULTS**

158

159 In round 1 there were 32 responses (100%), 31 in round 2 and 29 in round 3, giving a final response rate  
160 of 90.63%. (10) Out of the 21 questions in which a consensus was reached, 10 out of 21 questions reached  
161 consensus in the first round, 7 in round two and 4 in round three (Figure1). The results for each clinical  
162 parameter are presented in Table 1.

163

164 Strong agreement consensus was achieved that visual field stability should be assessed by trend analysis  
165 or by summary measures of VFI/ MD progression. Other methods of assessment or combinations of  
166 assessment methods did not reach consensus agreement.

167

168 The supplementary question (scored 1 – 4) to quantify the amount of visual field progression (MD) that  
169 can be defined as ‘stable’ found strong agreement on 0dB of change being stable (M4) and <4dB being  
170 unstable (M1) with stability scoring decreasing with greater change in MD. (<1dB:M3, <2dB:M2).

171

172 Strong consensus agreement was reached on the following (Figure 2):

- 173 • IOP level used to define stability should be based on a clinician defined target IOP tailored for  
174 individual patients
- 175 • Having no drop treatment change during the stability assessment period is considered stable
- 176 • An increasing number of drop changes indicates instability (3 drop changes for the optimisation  
177 of IOP control during the stability assessment period is not considered ‘stable’)

178 There was no consensus on the number of agents used for the optimisation of IOP when defining stability  
179 and ‘The number of agents required for the optimisation of IOP control is **not** important for defining  
180 glaucoma stability’ (M0, IQR0) (Figure 3)

181

182 No consensus was reached on what method or combination of imaging techniques, should be used to  
183 define structural glaucoma stability. In round 3 when respondents were asked to rank combinations of  
184 methods in order of preference, the combination of Optic disc (OD) photos (including stereoscopic disc  
185 photos) and OCT RNFL assessment was the most preferable followed by the combination of OD photos  
186 and OCT disc structural evaluation, with the combination of OCT RNFL assessment and OCT structural  
187 evaluation being the least preferred.

188

189 No consensus was achieved for length of the monitoring period required to define stability for patients  
190 identified with ‘high’ and ‘low’ risk glaucoma. There was a trend of increasing agreement with longer  
191 time periods of 36 and 48 months. This is illustrated in Figure 4a and 4b.

192

193 For independent community glaucoma monitoring schemes run by optometrists with Higher Certificate  
194 Glaucoma A or Glaucoma B or level III or IV qualifications (2) there was strong agreement consensus that  
195 they should be overseen by consultants with glaucoma speciality expertise.

196

197 For all community scheme models: (1) without consultant overview, (2) overseen by general  
198 ophthalmologists and (3) overseen by a consultant with glaucoma expertise – there was strong consensus  
199 agreement that an assessment of glaucoma stability should be made before patients are transferred to  
200 a glaucoma-monitoring scheme and that only patients with “stable” glaucoma should be transferred to  
201 these schemes. Severity and type of glaucoma were regarded important factors to consider when  
202 discharging patients to a community-based monitoring scheme. There was no consensus on the  
203 importance of considering a patient’s age unless referring patients to a service with no consultant  
204 overview, when it is deemed important.

205

## 206 **DISCUSSION**

207

208 Currently there is no definition of ‘stable glaucoma’ and there has been no previous attempt to generate  
209 a consensus definition of ‘stable glaucoma’. The Delphi method originated in the 1950s when the US Air-  
210 Force commissioned the RAND project to reach a consensus amongst military experts. (11) It has since  
211 become an established method of consensus development in the health field and has specifically been  
212 used to establish consensus in the field of glaucoma in multiple settings from developing standards for  
213 glaucoma virtual clinics (12) to developing specifications of open angle glaucoma screening interventions  
214 in the United Kingdom. (13) (14) (15) (16)

215

216 The method focuses on measuring the consensus of a group of qualified participants and has  
217 demonstrated decision-making advantages over other traditional methods, (17) allowing for the  
218 discussion of complex problems whilst giving participants sufficient time to respond at their own  
219 convenience.

220



221 It has been established that the selection of the participants is likely to have little impact on the group  
222 decision as long as the selection reflects the range of experience and characteristics of the population  
223 from which the participants are selected. (18) It is not possible to make any definite statement about  
224 whether similar groups will produce similar/ the same results. Having less than six participants has low  
225 reliability and with large groups (above twelve) the increase in reliability needs to be balanced with  
226 diminishing return rates. (5) Thus, reliable outcomes can be obtained with a relatively small Delphi panel  
227 size with a response rate of over 70%. (10)

228

229 Taking this into account, our panel of 32 respondents and our response rate of over 90% on the definition  
230 of 'stable glaucoma' carries weight for the formation of clinical guidelines. Consensus was reached on  
231 the majority of key clinical parameters and where consensus was not reached there was a strong  
232 consensus trend. We have used the consensus agreement obtained to generate a definition of stable  
233 glaucoma as follows:

234

235 1) *IOP control should be below a target defined by the patients' clinician* – This ensures a tailored  
236 approach for each patient and allows clinicians to incorporate important factors such as age,  
237 presenting IOP, extent of visual field loss and known rate of visual field progression into this  
238 target. (19) (20)

239 2) *Visual field loss can be monitored by Visual field testing with trend analysis of VFI/ MD*  
240 *progression* – This represents a simple and practical method of assessing visual field progression  
241 used in standard clinical practice. It is no surprise that 0 dB of change is considered stable as  
242 essentially this indicates no change. Questioning if clinicians were comfortable with small  
243 amounts of visual field loss in the context of stability we found that as larger changes in VF loss  
244 are suggested - these changes are considered progressively unstable.

245 3) *No change to the medication regime indicates stability*

246 We were unable to generate a consensus on length of time required to define stability, but our data  
247 suggests assessment of stability should take place over an extended period of time at least 36-48

248 months. The lack of consensus on the exact duration of follow-up required before glaucoma can be  
249 defined as stable may be a reflection of nervousness amongst clinicians in considering glaucoma a  
250 stable disease, as one respondent commented – “glaucoma is by definition a progressive condition and  
251 may progress at any time during the patients’ lifetime, even after it has been stable for many years”.

252 Lack of Delphi consensus on imaging techniques may indicate that when considered on their own, no  
253 single imaging technique is currently seen as sufficient or reliable for indicating stability, this may change  
254 with the development of improved technologies. However, when asked to rank the available options the  
255 combination of OD photos and OCT RNFL assessment/ OCT disc structural evaluation were the preferred  
256 imaging methods for the assessment of structural stability. (21) Again this may indicate unease with  
257 relying on a single technology at present and a move towards the use of multimodality imaging when  
258 organising a monitoring service.

259

260 Based on the findings of this Delphi process, we suggest that the following could be used as a practical,  
261 working definition of stable glaucoma:

262

263 Glaucoma may be defined as “stable” when the IOP remains below the target IOP defined by the  
264 patients’ clinician, on less than three medications and requiring no medication changes over a 48-month  
265 period during which no further visual field loss monitored by Visual field testing with trend analysis of  
266 VFI/ has occurred.

267

268 The aim of this project was to identify a consensus agreement for defining stable glaucoma to allow  
269 patient entry into ‘stable glaucoma’ monitoring schemes and to determine the oversight that would be  
270 necessary to run different models of such schemes.

271

272 Despite current governance around community glaucoma schemes and Glaucoma certificates, the  
273 consensus was that all community glaucoma monitoring schemes should be overseen by consultant  
274 ophthalmologists with glaucoma speciality expertise and it is not acceptable to have no consultant

275 overview of the scheme. This may seem counter intuitive in the context of established recognised higher-  
276 level qualifications for optometrists which acknowledge their expertise in the assessment and  
277 management of glaucoma and the development of prescribing qualifications which allow optometrists  
278 to actively treat patients – however, the consensus may simply reflect consultants erring on the side of  
279 caution and it may be that with time, as these schemes become more established and integrated into  
280 the continuous model of care - this attitude will change.

281

282 The decision of when to transfer patients to a community monitoring scheme varies between regions,  
283 some involving clinician’s acumen, others a set of criteria given by the community provider or a  
284 combination of the two. The criteria for monitoring and referral back to Hospital Eye Services (HES) is a  
285 generally not clear and reliant on the internal governance of community providers.

286

287 In our survey, there was consensus that an assessment of glaucoma “stability” should be made prior to  
288 transferring patients to community glaucoma monitoring schemes and only patients who are considered  
289 “stable” should be transferred. The use of our definition of glaucoma stability will increase consistency  
290 and transparency within glaucoma service provision.

291

292 Other important factors to consider on discharge include: glaucoma diagnosis, severity and the patients’  
293 age. It is interesting that regardless of the level of oversight for the community scheme, there was little  
294 difference in the results for each parameter.

295 When assessing patients within the community monitoring schemes, the key is to identify patients who  
296 are stable and those who do not meet the parameters of stability. Patients who are not stable need to  
297 be referred back to HES for further management and intervention. Our consensus definition helps to  
298 refine this process by providing some parameters of stability which are important regardless of the level  
299 of oversight supporting a particular scheme model.

300

301 **Limitations**

302

303 Ensuring confidentiality is an important aspect of formal consensus development. However, the Delphi  
304 method can be criticised for losing the benefits of face-to-face interaction which other forms of  
305 consensus development such as the nominal group technique (NGT) allow. Although the NGT may have  
306 enabled a more sophisticated and nuanced consideration of stable glaucoma, it places a greater time  
307 demand upon participants and rests upon all members of an expert group being able to attend an  
308 extended meeting (a full day) - It is hard to imagine that we would have been able to achieve this with  
309 the 32 glaucoma specialists.

310

311 The survey sample of Ophthalmology consultants was selected from registered Glaucoma Specialist  
312 Consultants who are recognised as authorities in the clinical aspects of glaucoma. However, many  
313 clinicians who are non-glaucoma specialists and health care professionals with glaucoma expertise are  
314 involved in the delivery of Glaucoma services and further study of their understanding and consensus of  
315 the parameters which are used to define stability is warranted.

316

317 It could be argued that there is a potential for bias in asking consultant ophthalmologists with glaucoma  
318 speciality expertise whether their oversight is important in running stable glaucoma monitoring schemes.  
319 However, for a consensus exercise it is appropriate to approach those most knowledgeable in a specific  
320 field in this case glaucoma for their expert opinion. This consensus outcome can then be used to inform  
321 both specialist and non-specialist of consensus driven best practise. At present, many general  
322 ophthalmologists manage this patient cohort already and there are established optometry-led glaucoma  
323 clinics managing stable glaucoma within the hospital setting without sub-specialist ophthalmic oversight.  
324 This consensus outcome will further inform the future structure of such services.

325

326 We are unable to address this possibility directly, however there is a recognition that glaucoma  
327 consultants are already overwhelmed and insufficient in numbers to provide a service sufficient to meet  
328 the needs of the aging population (3) and unlikely therefore to want to continue to contribute to a service  
329 that they did not believe requires their oversight. Further exploration of this would be helpful and seeking

330 opinion of non-ophthalmologists would clarify whether this opinion is shared by other health care  
331 professionals providing glaucoma care.

332

### 333 **CONCLUSION**

334

335 We believe this study has achieved a practical, multifactorial consensus definition of “stable” glaucoma  
336 for evaluation of transfer of patients to primary care glaucoma monitoring schemes and a consensus that  
337 all such schemes should have glaucoma consultant oversight. This will aid planning and allow consistent  
338 modeling of future primary care glaucoma monitoring schemes.

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