Section: Header

#	Subsection	CRF Numbering	Caption	Definition	Codelist	Mandatory	Core
1		i	Hospital / Clinic				✓
2		ii	Date of notification				✓
3		iii	Case type	New case: 1st time diagnosed as glaucoma or OHT or glaucoma suspect. Follow-up: All follow-up glaucoma or OHT or glaucoma suspect cases that has never been registered in the glaucoma registry	1:New case; 2:Follow-up		✓

#	Subsection	CRF Numbering	Caption	Definition	Codelist	Mandatory	Core
1		1	Name of patient			✓	✓
2	Identification card number	2a	MyKad/MyKid			✓	✓
3	Identification card number	2c	Other ID document No	Eg. Old IC, passport, armed force, hospital registration number			✓
4	Identification card number	2d	Specify type				✓
5		3a	Postcode				
6		3b	TownCity				
7		3c	State		1: Johor Darul Takzim; 2: Kedah Darul Aman; 3: Kelantan Darul Naim; 4: Melaka; 5: Negeri Sembilan Darul Khusus; 6: Pahang Darul Makmur; 7:Perak Darul Ridzuan; 8: Perlis Indera Kayangan; 9: Pulau Pinang; 10: Sabah; 11: Sarawak; 12: Selangor Darul Ehsan; 13: Terengganu Darul Iman; 14: Wilayah Persekutuan; 20: Others, specify; 8888: Not available; 9999: Missing		
8		4a	Date of birth			\checkmark	✓
9		4b.i	Age at notification (auto calculated) - year(s)			\checkmark	✓
10		4b.ii	Age at notification (auto calculated) - month(s)			✓	✓
11		5	Gender		1:Male; 2:Female	✓	✓
12		6a	Ethnic group		1:Malay; 2:Chinese; 3:Indian; 4:Orang Asli; 5:Melanau; 6:Kadazan/Murut/Bajau; 7:Iban; 8:Bidayuh; 9:Other,specify		✓
13		6b	Ethnic group - other specify				

		Data Doi			
4	7	Occupation	Government employee: Employ by the Government ;Private employed: Employ by the Private sector; Self employed: Doing own business; Unemployed: Unable to work /retired /housewife /student /part- time or occasionally working	1:Government employed; 11:Private employed; 12:Self employed; 13:Unemployed; 8888:Not available; 9999:Missing	✓

Section: 2: MEDICAL HISTORY

#	Subsection	CRF Numbering	Caption	Definition	Codelist	Mandatory	Core
1	Medical history	1a	None				
2	Medical history	1b	Diabetes	IDDM, NIDDM			✓
3	Medical history	1c	Hypertension	Hypertensive on diet control or treatment			✓
4	Medical history	1d	Hypercholesterolemia	Hypercholesterolemic patient on diet control or treatment			✓
5	Medical history	1e	Cardiac disease	IHD, previous MI/ bypass, heart failure, pacemaker, valvular diseases, etc			✓
6	Medical history	1f	Stroke				✓
7	Medical history	1g	Vasospastic disease	Migraine , Raynaud's disease			✓
8	Medical history	1h	Respiratory disease	Asthma, COAD, bronchiectasis etc			✓
9	Medical history	1j	Family history of glaucoma	ı			✓
10	Medical history	1i	History of steroid therapy	Topical, orbital floor injection, intravitreal and systemic corticosteroids	1:Yes; 2:No		✓

Section: 3:OCULAR EXAMINATION

# Subsection	n CRF Numbering	Caption	Definition	Codelist	Mandatory	Core
1	3	Eye(s) affected	Eye(s) (including NPL eye) that has glaucoma problem	1:Right eye only; 2:Left eye only; 3:Both eyes; 9999: Missing		✓
2 OD	2a.i	Unobtainable	Patient is not cooperative or mentally adequate for VA assessment			✓
3 OS	2b.i	Unobtainable	Patient is not cooperative or mentally adequate for VA assessment			✓
4 VA-OD	2a.ii	Unaided		1: 6/5; 2: 6/6; 3: 6/9; 4: 6/12; 5: 6/18; 6: 6/24; 7: 6/36; 8: 6/60; 9: 5/60; 10: 4/60; 11: 3/60; 12: 2/60; 13: 1/60; 14: CF; 15: HM; 16: PL; 17: NPL; 8888: Not available; 9999: Missing		✓
5 VA-OD	2a.iii	With Glasses		1: 6/5; 2: 6/6; 3: 6/9; 4: 6/12; 5: 6/18; 6: 6/24; 7: 6/36; 8: 6/60; 9: 5/60; 10: 4/60; 11: 3/60; 12: 2/60; 13: 1/60; 14: CF; 15: HM; 16: PL; 17: NPL; 8888: Not available; 9999: Missing		✓

	Glaucoma Registry Data Definition Document										
6 VA-OS	2b.ii	Unaided		1: 6/5; 2: 6/6; 3: 6/9; 4: 6/12; 5: 6/18; 6: 6/24; 7: 6/36; 8: 6/60; 9: 5/60; 10: 4/60; 11: 3/60; 12: 2/60; 13: 1/60; 14: CF; 15: HM; 16: PL; 17: NPL; 8888: Not available; 9999: Missing		✓					
7 VA-OS	2b.iii	With Glasses		1: 6/5; 2: 6/6; 3: 6/9; 4: 6/12; 5: 6/18; 6: 6/24; 7: 6/36; 8: 6/60; 9: 5/60; 10: 4/60; 11: 3/60; 12: 2/60; 13: 1/60; 14: CF; 15: HM; 16: PL; 17: NPL; 8888: Not available; 9999: Missing		✓					
8 VA-OD	3a	Cup-Disc ratio (vertical)	Undetermined: Good view of the disc but not able to determine the cup-disc ratio eg. severe tilted and myopic disc, disc with drusen / overlying glial/fibrous tissue/optic disc pit /coloboma , etc. No view of disc due to a.Media clarity problem eg. dense cataract, vitreous haemorrhage, cornea scar, bullous keratopathy, etc; b.Disorganized /absence globe eg. phthisis , prosthesis	10:0.75; 11:0.8; 12:0.85; 13:0.9;		✓					
9 VA-OS	3b	Cup-Disc ratio (vertical)	Undetermined: Good view of the disc but not able to determine the cup-disc ratio eg. severe tilted and myopic disc, disc with drusen / overlying glial/fibrous tissue/optic disc pit /coloboma , etc. No view of disc due to a.Media clarity problem eg. dense cataract, vitreous haemorrhage, cornea scar, bullous keratopathy, etc; b.Disorganized /absence globe eg. phthisis , prosthesis	1:0.1; 2:0.2; 3:0.3; 4:0.4; 5:0.5; 6:0.55; 7:0.6; 8:0.65; 9:0.7; 10:0.75; 11:0.8; 12:0.85; 13:0.9; 14:0.95; 15:1.0		•					
Section: 4:DIAGN	OSIS										
# Subsection	CRF Numbering	Caption	Definition	Codelist	Mandatory	Core					

~ Glaucoma with no known causes. 1:Congenital; 5:OHT; OD 1a.i Primary Congenital:Glaucoma associated 9:Others; 13:PACG; 11:POAG; 14:PAC; with developmental anomalies that are present at birth, including 12:Glaucoma suspect; 15:PAC suspect; primary congenital glaucoma and glaucoma associated with other 8888:Not available; developmental anomalies, either 9999:Missing ocular or systemic, POAG:Patient with high or normal IOP with glaucomatous disc and/or visual field defects.; Glaucoma suspect:Patient with open angle and normal IOP, with either a suspicious glaucomatous disc or visual field defects; OHT:Patient with increased IOP without evidence of glaucomatous optic disc damage or visual field defects; PACG:Patient with chronic closed/narrow/creeping angle (inclusive of those with previous acute attack) with raised IOP, glaucomatous disc and/or visual field defects.; PAC:Patient with current or previous episode of acute attack of angle closure but without glaucomatous disc damage and visual field defects; PAC suspect:Patients with narrow/appositional angles with/without any procedure done (eg. Laser/surgical PI, ALPi, cataract operation) 2 OD 1a.i.a Primary if others, specify Specification if Primary diagnosis is **~** 3 OD Secondary Glaucoma associated with known 1:PEX; 2:PDS; 1a.ii ocular or systemic causes. 4:Rubeotic; 8:Malignant; 9:ICE; PEX:Glaucoma with presence of pseudoexfoliation material in the 10:Steroid induced; anterior segment of the eye; 11:Post surgery; 13:Mixed type; Rubeotic:Neovascular glaucoma of any cause; Post 14:Others; traumatic:Glaucoma following 21:Pasttraumatic: trauma eg. angle recession, 22:Inflammatory; aniridia, etc; Steroid 23:Lens induced; induced:Glaucoma associated with 8888:Not available; steroid administration producing a 9999:Missing clinical pictures that closely resembles that of POAG; Malignant:Glaucoma occurring following ocular procedure characterized by flat anterior chamber and high IOP; Mixed type:Combination of various possible causes eg. post-traumatic with previous vitreoretinal surgery with anterior chamber IOL; Pigment Dispertion:Glaucoma secondary to pigment dispersion syndrome or IOL, etc; Inflammatory; Lens Induced:Glaucoma caused by lens pathology eg. phacomorphic, phacolytic, dislocated, subluxated lens, etc; Post surgery:Persistent raise IOP post surgery with glaucomatous optic disc damage and visual field defects; ICE:Glaucoma secondary to iridocorneal endotheliopathy OHT:Patient with increased IOP (due to secondary causes eg. silicone oil, intravitreal gas, steroid therapy, etc) without evidence of glaucomatous optic disc damage or visual field defects

4	OD	1a.ii.a	Secondary if others, specify	Specification if Secondary diagnosis is Other		
5		1b.i	Primary	Glaucoma with no known causes. Congenital:Glaucoma associated with developmental anomalies that are present at birth, including primary congenital glaucoma and glaucoma associated with other developmental anomalies, either ocular or systemic, POAG:Patient with high or normal IOP with glaucomatous disc and/or visual field defects.; Glaucoma suspect:Patient with open angle and normal IOP, with either a suspicious glaucomatous disc or visual field defects; OHT:Patient with increased IOP without evidence of glaucomatous optic disc damage or visual field defects; PACG:Patient with chronic closed/narrow/creeping angle (inclusive of those with previous acute attack) with raised IOP, glaucomatous disc and/or visual field defects.; PAC:Patient with current or previous episode of acute attack of angle closure but without glaucomatous disc damage and visual field defects; PAC suspect:Patients with narrow/appositional angles with/without any procedure done (eg. Laser/surgical PI, ALPi, cataract operation)	1:Congenital; 5:OHT; 9:Others; 13:PACG; 11:POAG; 14:PAC; 12:Glaucoma suspect; 15:PAC suspect; 8888:Not available; 9999:Missing	
6	OS	1b.i.a	Primary if others, specify	Specification if Primary diagnosis is Other		

7 OS	1b.ii	Secondary	Glaucoma associated with known ocular or systemic causes. PEX:Glaucoma with presence of pseudoexfoliation material in the anterior segment of the eye; Rubeotic:Neovascular glaucoma of any cause; Post traumatic:Glaucoma following trauma eg. angle recession, aniridia,etc; Steroid induced:Glaucoma associated with steroid administration producing a clinical pictures that closely resembles that of POAG; Malignant:Glaucoma occurring following ocular procedure characterized by flat anterior chamber and high IOP; Mixed type:Combination of various possible causes eg. post-traumatic with previous vitreoretinal surgery with anterior chamber IOL; Pigment Dispertion:Glaucoma secondary to pigment dispersion syndrome or IOL, etc; Inflammatory; Lens Induced:Glaucoma caused by lens pathology eg. phacomorphic, phacolytic, dislocated, subluxated lens, etc; Post surgery:Persistent raise IOP post surgery with glaucomatous optic disc damage and visual field defects; ICE:Glaucoma secondary to iridocorneal endotheliopathy; OHT:Patient with increased IOP (due to secondary causes eg. silicone oil, intravitreal gas, steroid therapy, etc) without evidence of glaucomatous optic disc damage or visual field defects	1:PEX; 2:PDS; 4:Rubeotic; 8:Malignant; 9:ICE; 10:Steroid induced; 11:Post surgery; 13:Mixed type; 14:Others; 21:Pasttraumatic; 22:Inflammatory; 23:Lens induced; 8888:Not available; 9999:Missing	
8 OS	1b.ii.a	Secondary if others, specify	Specification if Secondary diagnosis is Other		

Section: 5:MANAGEMENT

#	Subsection	CRF Numbering	Caption	Definition	Codelist	Mandatory	Core
1	OD	a.i	No treatment	Patient with raised IOP and/ or glaucomatous optic disc damage that is NPL or very poor visual potential and no further active management given	1:Yes; 2:No; 8888:Not available; 9999:Missing		✓
2	OS	b.i	No treatment	Patient with raised IOP and/ or glaucomatous optic disc damage that is NPL or very poor visual potential and no further active management given	1:Yes; 2:No; 8888:Not available; 9999:Missing		✓
3	OD	a.ii	Observation	No medical and/or surgery management except regular follow-ups with ocular examination and visual field tests eg. glaucoma suspect or OHT or patients with previous surgical/laser treatment without medication	1:Yes; 2:No; 8888:Not available; 9999:Missing		✓
4	os	b.ii	Observation	No medical and/or surgery management except regular follow- ups with ocular examination and visual field tests eg. glaucoma suspect or OHT or patients with previous surgical/laser treatment without medication	1:Yes; 2:No; 8888:Not available; 9999:Missing		✓

5	Current therapy - OD	a.iii.a	Current Medical Therapy		1:Yes; 2:No; 8888:Not available; 9999:Missing	
6	Current therapy - OD	a.iii.a.i	Beta-blockers	Timolol 0.5%, Timolol XE, Timolast, Timo-comod, Betoptic, Betoptic S, Betagan		✓
7	Current therapy - OD	a.iii.a.ii	Prostalglandins Analog	Xalatan, Travatan, Lumigan		✓
8	Current therapy - OD	a.iii.a.iii	Topical CAIs	Trusopt, Azopt		✓
9	Current therapy - OD	a.iii.a.ii	Alphaadrenergic	Alphagan, Alphagan P, Brimonidine (Alcon)		✓
10	Current therapy - OD	a.iii.a.iv	Cholinergics	Pilocarpine 1%, 2% or 4%		✓
11	Current therapy - OD	a.iii.a.v	Systemic CAIs	Oral glycerol, Mannitol		✓
12	Current therapy - OD	a.iii.a.vi	Hyperosmotic agents	Oral glycerol, Mannitol		✓
13	Current therapy - OD		Others	Fixed combination eg. Xalacom, Cosopt , Duotrav, Combigan, Ganfort etc is considered as 2 medications		
14	Current therapy - DS		Others, specify	Specification if current medical therapy is Other		
15	Previous therapy - OD		Previous laser therapy		1:Yes; 2:No; 8888:Not available; 9999:Missing	
16	Previous therapy - OD		Iridotomy			
17	Previous therapy - OD		Iridoplasty			
18	Previous therapy - OD	5.04a.02	Trabeculoplasty			
19	Previous therapy - OD	5.04a.05	Transcleral Cyclodiode			
20	Previous therapy - OD		Endocyclodiode			
21	Previous therapy - OD	5.04a.06	Others	eg. Deep sclerectomy, viscocanalostomy etc		
22	Previous therapy - OD	5.04a.07	Others, specify			
23	OD	5.05a	Previous Surgery		1:Yes; 2:No; 8888:Not available; 9999:Missing	
24	Current Surgery OD	5.05a.01	Trabeculectomy (plain)	Without any intraoperatively antimetabolic		
25	Current Surgery OD	5.05a.02	DrainageDevice	Ahmad Valve, Baerveldt Implant or Molteno Implant etc		
26	Current Surgery OD	5.05a.03	Needling			
27	Current Surgery OD	5.05a.04	Non PenetratingSurgery	eg. Deep sclerectomy, viscocanalostomy etc		
28	Current Surgery OD	5.05a.12	Trabeculotomy	Trabeculotomy		
29	Current Surgery OD	5.05a.06	Trabeculectomy (augmented)	With intraoperative antimetabolic eg. mitomycin C, 5 -Flurouracil		
30	Current Surgery OD	5.05a.05	Trabeculectomy	Not known whether any intraoperative antimetabolic used		

31	Current Surgery OD	5.05a.08	Cryotheraphy			
32	Current Surgery OD	5.05a.07	Surgical PI only	Peripheral iridotomy done surgically		
33	Previous - OD	5.05a.09	Goniotomy			
34	Current Surgery OD	5.05a.10	Other			
35	Current Surgery OD	5.05a.11	Other, Specify			
36	Current therapy - OD	a.iii.b	Current Medical Therapy		1:Yes; 2:No; 8888:Not available; 9999:Missing	
37	Current therapy - OS	b.iii.a.i	Beta-blockers	Timolol 0.5%, Timolol XE, Timolast, Timo-comod, Betoptic, Betoptic S, Betagan		✓
38	Current therapy - OS	b.iii.a.ii	Prostalglandins Analog	Xalatan, Travatan, Lumigan		✓
39	Current therapy - OS	b.iii.a.v	Topical CAIs	Trusopt, Azopt		✓
40	Current therapy - OS	b.iii.a.iv	Alphaadrenergic	Alphagan, Alphagan P, Brimonidine (Alcon)		✓
41	Current therapy - OS	b.iii.a.vi	Cholinergics	Pilocarpine 1%, 2% or 4%		✓
42	Current therapy - OS		Systemic CAIs	Tablet / Intravenous Acetazolamide (Diamox)		✓
43	Current therapy - OS		Hyperosmotic agents	Oral glycerol, Mannitol		~
44	Current therapy - OS		Others	Fixed combination eg. Xalacom, Cosopt , Duotrav, Combigan, Ganfort etc is considered as 2 medications		
45	Current therapy - OS		Others, specify	Specification if current medical therapy is Other		
46	Previous therapy - OS		Previous laser therapy		1:Yes; 2:No; 8888:Not available; 9999:Missing	
47	Previous therapy - OS	5.04b.01	Iridotomy			
48	Previous therapy - OS	5.04b.04	Iridoplasty			
49	Previous therapy - OS	5.04b.02	Trabeculoplasty			
50	Previous therapy - OS		Transcleral Cyclodiode			
51	Previous therapy - OS	5.04b.03	Endocyclodiode			
52	Previous therapy - OS	5.04b.06	Others			
53	Previous therapy - OS	5.04b.07	Others, specify			
54	OS	5.05b	Previous Surgery		1:Yes; 2:No; 8888:Not available; 9999:Missing	
55	Current Surgery OS	5.05b.02	DrainageDevice	Ahmad Valve, Baerveldt Implant or Molteno Implant etc		
56	Current Surgery OS	5.05b.05	Trabeculectomy	Not known whether any intraoperative antimetabolic used		
57	Current Surgery OS	5.05b.03	Needling			

	Glaucoma Registry Data Definition Document										
58	Current Surgery OS	5.05b.04	Non PenetratingSurgery	eg. Deep sclerectomy, viscocanalostomy etc							
59	Current Surgery OS	5.05b.12	Trabeculotomy	Trabeculotomy							
60	Current Surgery OS	5.05b.01	Trabeculectomy (plain)	Without any intraoperatively antimetabolic							
61	Current Surgery OS	5.05b.06	Trabeculectomy (augmented)	With intraoperative antimetabolic eg. mitomycin C, 5 -Flurouracil							
62	Current Surgery OS	5.05b.07	Cryotheraphy								
63	Current Surgery OS	5.05b.08	Surgical PI	Peripheral iridotomy done surgically	1						
64	Previous - OS	5.05b.09	Goniotomy								
65	Current Surgery OS	5.05b.10	Other								
66	Current Surgery OS	5.05b.11	Other, Specify								
Se	ction: After section	on 5									
#	Subsection	CRF	Caption	Definition	Codelist	Mandatory	Core				

Definition

Codelist

1:Glaucoma Specialist; 2:Glaucoma Fellow; 3:Others,specify; 4:Medical Officer

Mandatory

Core

Subsection

1

Caption

Examined by

Numbering

5.06a