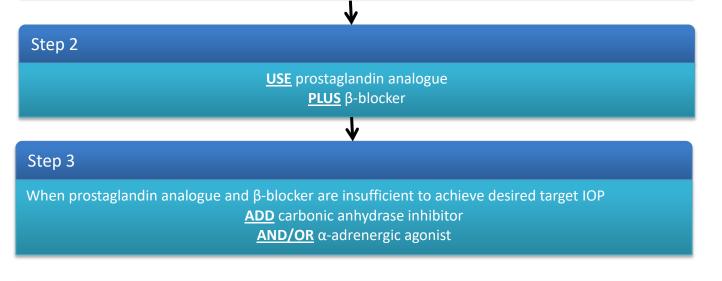
Part 1 – Pharmacological Pathway for the Treatment and Management of Open Angle Glaucoma and Ocular Hypertension

Summary of Glaucoma Prescribing Guideline:

- Before offering medication any relevant comorbidities or potential drug interactions need to be checked carefully.
- A single drug should be started and its effectiveness at lowering intraocular pressure (IOP) and any side effects should be assessed usually upon follow-up. If there is no IOP response and the patient's adherence and eye drop instillation technique have been checked and deemed appropriate, the drug should be stopped and another tried from a different class. If there is a satisfactory IOP drop but insufficient to meet the target pressure then a second drug may be added.
- Medical therapy of more than three topical agents- one separate and one combination should trigger consideration for either laser or surgery. Maximal medical treatment would consist of all 4 classes of topical pressure lowering medications and possible oral acetazolamide.
- The guideline should be adhered to for all new patients. No change in treatment plan is recommended for patients already on different medications when there is satisfactory IOP response. Non-responders should be switched to a different class of drug.
- All patients must be prescribed generic drugs unless otherwise required for clinical reasons which must be identified on a case by case basis and appropriately communicated to GPs.

Step 1

<u>1st line: Prostaglandin analogues</u> Safer than β-blockers and more effective at lowering IOP. <u>2nd line: β-blockers</u> However, can be used as first line for unilateral glaucoma patients or as a result of adverse effects to prostaglandin analogues. Not to be prescribed if there is history of bronchospasm and should be stopped immediately if the patient develops any cardiac or respiratory related side effects.



* Use of Preservative Free Formulations:

Preservative free formulations are restricted to patients with true preservative allergy and/or people with clinically significant and symptomatic ocular surface disease (evidence of epithelial toxicity and/or severe dry eyes).

Full NICE Pathway for treating and management of Glaucoma found at: <u>https://pathways.nice.org.uk/pathways/glaucoma#path=view%3A/pathways/glaucoma/managing-glaucoma.xml&content=view-node%3Anodes-ocular-hypertension-treatment</u>

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Part 2 – Glaucoma Service Prescribing Guideline for Open Angle Glaucoma and Ocular Hypertension

Drug		With Preservative	Preservative Free
Prostaglandin analogues	1 st Line	1 st latanoprost 0.005% eye drops 2 nd bimatoprost 0.01% eye drops 3 rd travoprost 0.004% eye drops	1 st latanoprost 0.005% single use eye drops* 2 nd bimatoprost 0.03% single use eye drops*
β-blockers	2 nd Line	1 st timolol 0.25% eye drops 2 nd timolol 0.25% eye gel (long acting)	1 st timolol 0.1% eye gel*
Carbonic anhydrase inhibitors	3 rd Line	1 st brinzolamide 1% eye drops 2 nd dorzolamide 2% eye drops	1 st dorzolamide 2% single use eye drops*
α -adrenergic agonists	3 rd Line	1 st brimonidine 0.2% eye drops	

Combination Therapies: TO BE USED WHEN COMPLIANCE/COST ISSUES ARISE

Choice needs to be made according to patient's concurrent and/or previous therapy

With Preservative	Preservative Free
latanopost/timolol bimatoprost/timolol travoprost/timolol	1 st latanoprost/timolol* 2 nd bimatoprost/timolol*
dorzolamide/timolol brinzolamide/timolol	dorzolamide/timolol*
brimonidine/timolol	
brinzolamide/ brimonidine	
	latanopost/timolol bimatoprost/timolol travoprost/timolol dorzolamide/timolol brinzolamide/timolol brimonidine/timolol brinzolamide/

ADD APRACLONIDINE 0.5% EYE DROP: used short term to delay laser treatment or surgery in patients with glaucoma not adequately controlled by other drugs, however, some patients may benefit from treatment with apraclonidine 0.5% for longer periods.

Use Apraclonidine Preservative Free 1% Eye DROP*: for patients who are on maximally tolerated therapy <u>and</u> have a preservative allergy/ocular surface disease/previous corneal surgery <u>and</u> are not suitable for surgery.

ADJUNCT THERAPY: Oral acetazolamide - for patients already on maximally tolerated topical treatment.

OTHER GLAUCOMA DRUGS ON MEH FORMULARY (FOR RESTRICTED USE ONLY)

- Betaxolol 0.25% MR and betaxolol 0.25% MR (preservative free)* for patients who require a cardioselective β-blocker, e.g. mild asthmatics who can tolerate therapy.
- Levobunolol 0.5% (preservative free)*, timolol 0.5% (long acting) and pilocarpine various strengths secondary, atypical and refractory glaucomas.

NON-FORMULARY

 Tafluprost 0.0015% (preservative free)* – no longer initiated at Moorfields, but available for patients who have previously been initiated and are stable on this medicine.

