PACKAGE INSERT Sterile Ophthalmic Solution



(dorzolamide hydrochloride and timolol maleate ophthalmic solution)

# I. THERAPEUTIC CLASS

 Oution (dorzolamide hydrochloride and timolol maleate) is the first combination drase inhibitor and a topical beta-adrenergic receptor blocking agent. of a tonica CLINICAL PHARMACOLOGY Mechanism of Action

## lla M

of a topical actionic anhydrase inhibitor and a topical beta-adrenergic receptor blocking agent.
I. LUNICAL PHARMACOLOGY
III. Advantame of Action
COSSOFT is comprised of two components: dozzalamide hydrochloride and timolol maleate. Each of
these two components decreases elevated intraccular pressure by reducing aqueous humor secretion,
tot does so by a different mechanism of action.
Dozdamide hydrochloride is a potent inhibitor of human carbonic anhydrase III. Inhibitor of carbonic
anhydrase in the oliary processes of the eye decreases aqueous humor secretion,
public the topical administration. COSOPT reduces elevated intraccular pressure, whether or not
associated with glacorom. Elevated intraccular pressure, interface the reduce pressure is a nonselected endinergic receptor blocing agent that does not Dose
romanne and administration. COSOPT reduces elevated intraccular pressure, whether or not
associated with glacorom. Elevated intraccular pressure, whether or not
associated with glacorom. Elevated intraccular pressure, whether or not
associated with glacorom. Elevated intraccular pressure, whether or not
associated with processent is an endicated intercular purpose data administration.
Dozobinetics / Planmacodynamics
Multi the domine and exclusion in intraccular pressure, without the
adu-base disturbances or alterations in electrolytics
Dozobinetics / Planmacodynamics
Dozobinetics / Advantation is edificults and initiation. To assess the potential for
Dozobinetics / Planmacodynamics
Dozobinetics / Planmacodynamics
Multi the dozobine and the dozobine in the dozobine in the dozobine advisor in electrolytics
Dozobinetic Advochlorid
Dozobinetic Advochlorid
Dozobinetic Advochlorid
Dozobinetics / Planmacodynamics in electrolytics
Dozobinetics

systemic side effects were unterry enterry and an effect and the systemic exposure to timolol wase In a study of plasma drug concentration in six subjects, the systemic exposure to timolol wase determined following twice alidy local administration of finolal melaete ophthalmic solution 0.5%. The mean pack plasma concentration following morning dosing was 0.46 ng/mL and following afternoon dosing was 0.35 ng/mL

dosing was boot reme. III. NOICATIONS COSOPT is indicated in the treatment of elevated IOP in patients with ocular hypertension, open-angle glaucoma, pseudoedolative glaucoma or other secondary open-angle glaucomas when concomitant term

IV. DOSAGE AND ADMINISTRATION

IV, DUSAGE AND ADMINISTRATION The close is one drop of COSSPT in the affected eye(§) two times daily. When substituting COSOPT for another ophthalmic antiglaucoma agent(s), discontinue the other agent(s) after proper dosing on one day, and start COSOPT on the next day. If another topical ophthalmic agent is being used, COSOPT on the other agent should be administered at least ten minutes gart. When using nesolacimal occlusion or closing the eyelids for 2 minutes, the systemic absorption is relaced. The miny result in an increase in local addity.

V. CONTRAINDICATIONS

V. CONTINANDICATIONS COSOPT is contraindicated in patients with: ••reactive airway disease, including bronchial asthma or a history of bronchial asthma, or severe chronic obstructive putint bracemater, over cardiac failure, cardogenic shock on controlled with pacemater, over cardiac failure, cardogenic shock on controlled with pacemater, over cardiac failure, cardogenic shock on controlled with pacemater, over cardiac failure, cardogenic shock on controlled with pacemater, over cardiac failure, cardogenic shock on controlled with pacemater, over cardiac failure, cardogenic shock on controlled with pacemater, over cardiac failure, cardogenic shock on controlled with pacemater, over cardiac failure, cardogenic shock on control of the pacemater, over cardiac failure, and the components of the components and are not unique to the combination. Nu pace A troops

VI PRECAUTIONS

VI. PHEADURING Sa with other topically-applied ophthalmic agents, this drug may be absorbed systemically. The timolol component is a beta-blocker. Therefore, the same types of adverse reactions found with systemic administration of beta-blockers may occur with topical administration. Incidence of systemic ADRs after topical administration is lower than for systemic administration.

topical administration is lower than for systemic administration. <u>Cardio-Registratory Reactions</u> in patients with cardiovascular diseases (e.g., coronary heart disease, Pirzmetal's angina and cardiac falura) and hypotension, therapy with beta-bickers should be critically assessed and the therapy with other active substances should be considered. Patients with cardiovascular diseases should be watched for signs of deterioration of these diseases and of adveser reactions. Due to its negative effect on conduction time, beta-bickers should be given with caution to patients with first diggres hear bickc. The state is the state of the due to thorochecagem in patients with asthma have been reported following administration of timoid maletei optithalms caution. In patients with caution, and only if the potential benefit outweighs the potential risk. Viser-law Tierverters

Vascular Disorders Patients with severe peripheral circulatory disturbance/disorders (e.g. severe forms of Raynaud's disease or Raynaud's syndrome) should be treated with caution.

Hepatic Impairment COSOPT has not been studied in patients with hepatic impairment and therefore should be used with cardion in a who radiants

Cocient has bit been soluted in parents with replace inpartient and interface should be been with cattlor in such participations. Immunology and Hypersensitivity As with offer clopellay-applied ophthalmic agents, this drug may be absorbed systemically. The dozolamide component is a sulforamide. Therefore, the same types of adverse reactors found with systemic administration of sulformalies may occur, with topical administration, such as Stevens-Johnson syndrome and toxic epidermal necrolysis. If signs of serious reactors or hypersensitivity document and studies, local occular adverse effects, primarily conjunctivitis and ill reactions, were reported with chronic administration of outcoming they be they be the solution. Some of these reactors had the clinical appearance and course of an allergic-type reaction that resolved upon discontinuation of drug therapy. Similar reactors have been reported with OCSOFT. It such reactors are observed, discontinuation of treatment with OCSOFT should be considered. White taking beta-blockers, patients with a history of dargy or a history of severe anaphylactic reaction to a variety of allergens may be more reactive to accidental, diagnostic, or therapeutic repeated challenge with such allergens. Such adjusticar patients may be unresponsive to the usual doses of epinephrine used to treat anaphylacit reactors. Concomitant Therapy

Concomitant Therapy There is a potential for an additive effect on the known systemic effects of carbonic anhydrase inhibition in patients receiving oral and topical carbonic anhydrase inhibitors concomitantly. The concomitant administration of COSOPT and oral carbonic anhydrase inhibitors has not been studied and is not recommended

who are already receiving a beta-adrenergic blocking agent systemically and who are given should be observed for a potential additive effect either on the intraocular pressure or on the stemic effects of beta-blockade. The use of two topical beta-adrenergic blocking agents is not

recommended. <u>Windrawal of Therapy</u> As with systemic beta-binery should be withdrawn gradually. Masking of Hypoglycemic Symptoms in Patients with Diabetes Mellitus Beta-adrenergic blocking agents should be administered with caution in patients subject to spontaneous hypoglycemic or diabetic patients (sepecially those with liable diabetes) who are receiving insulin or oral hypoglycemic agents. Beta-adrenergic blocking agents may mask the signs and symptoms of acute hypoglycemia.

Making of Thyrotoxicosis Bata-adtenergic blocking agents may mask certain clinical signs of hyperthyroidism (e.g., tachycardia). Patients suspected of developing thyrotoxicosis should be managed carefully to avoid abrupt withdrawal of bata-adtenergic blocking agents which might precipitate a thyroid storm.

Corneal diseases Ophthalmic beta-blockers may induce dryness of eyes. Patients with corneal diseases should be transmitted units reading

Zargical Anesthesia Beta-blocking ophtheimological preparations may block systemic beta-agonist effects e.g. of adrenalne. The anaesthesiogies should be informed when the patient is receiving timolol. Therapy with beta-adrenergic blocking agents may agravate symptoms of myasthenia gravis.

Inerapy with beta-adrenergic blocking agents may aggravate symptoms of myselbreia gravis. Additional Effects of Carbonic Anhydrase Inhibition Therapy with oral carbonic anhydrase inhibitors has been associated with undihasis as a result of advibase daturbances, especially in patients with a prior history of real calu. Although no advib-ased base daturbances, especially in patients with a prior history of real calu. Although no advib-sed base daturbances, especially no patients with a prior history of real calu. Although is absorbed systemically, patients with a prior history of real calcul, in experimentary of unit history for a data in the patient of the sub-site of the method endowdr. using this medicinal product.

Other The management of patients with acute angle-closure glaucoma requires therapeutic interventions in addition to ocular hypotensive agents. COSOPT has not been studied in patients with acute angle-

addition to ocaler hypotensive agents. COSCP/I has not been stutered in patients with reversible comparison of the second state state state second state state second state state second state second state of the second state state second state second state of the second state state second s

Iffractues preserve and the preservative benzalkonium chloride, which may cause eye initiation. The lenses Social CH contains the preservative benzalkonium chloride, which may cause eye initiation. The lenses should be removed before application of the drops and not be reinserted earlier than 15 minutes after use. Benzalkonium chloride is known to discidour soft contact lenses.

vir. i sectiveveut (CSQPT should not be used during pregnancy. Dozzdamide No adequate clinical data in exposed pregnancies are available. In rabbits, dorzolamide produced tratagenic diffect at maternotoxic doses.

Timolol There are no adequate data for the use of timolol in pregnant women. Timolol should not be used during pregnancy unless clearly necessary. Epidemiclogical studies have not revealed mattomative effects but show a risk for intra uterine growth retarction when beta-blockers are administered by the oral route. In addition, signs and symptoms of beta-blocked e.g., bradycardial, hypotension, respectively distress and hypotypearmity have been observed in the neorate when beta-blockers have been administered until diskery. If this medicine product is administered until diskery, the neorate solutid be cardity monitored during the risk days of the days of the solution of the days of the days

### VIII. NURSING MOTHERS

dorzolamide hydrochloride is excreted in human milk. In lac It is not work where the concentrate reconcision is exceed in numerical matching in the constraint of IX. PEDIATRIC USE

IX. PEDATRIC USE Efficacy in peadinic patients has not been established. Safety in paediatric patients below the age of 2 years has not been established.
A 3 month controlled study, with the primary objective of documenting the safety of 2% dozolamide hydrochoride ophthalmic solution in children under the age of 6 years has been conducted. In this solut, 30 patients under 6 and greater than or equal to 2 years of age whose IDP was not adequately controlled with monotherapy by dozolamide or timolol neceived OCSOPT in an open label phase. In this small group of patients, twice daily administration of OCSOPT was generally well loterated with 19 patients completing the treatment period and 11 patients discontinuing for surgery, a change in medication, or other reasons.

C DFUG TOTAL CONSTRUCTIONS CONTRIPUTED TO A DECEMPTION OF A

XI. SIDE EFFECTS In clinical studies for COSOPT the observed adverse reactions have been consistent with those that In dirical studies for COSOPT the observed adverse reactions have been consistent with those that were reported providay with docusined hydrochothica and/or finical maketa. During dirical studies, 1035 patients were treated with COSOPT. Approximately 2.4% of all patients discontinued therapy with COSOPT. Approximately 2.4% of all patients discontinued therapy with COSOPT. Approximately 2.4% of all patients discontinued therapy with COSOPT. Approximately 2.4% of all patients discontinued therapy with COSOPT because of local adverse reactions. Approximately 1.2% of all patients discontinued therapy with COSOPT constrained and computed therapy and the cost of the systemic carculation. This may cause similar undestrable deficts as seen with systemic batchotical registeria. ADRs after topical ophthatim: administration is lower than for systemic administration. The following adverse reactions have been reported with COSOPT or one of its components either during dinical triats or during post-marketing experience. E(1/10.00 to <1/10.00 to <1/10.00 and Rare: (z1/10.00 to <1/10.00 to <



System Organ	Formulation	Very	Common	Lincommon	Para	Not Known**
Class (MedDRA)	CODODT	Common	Common	Oncommon	hare	NULNIUWI
disorders					of systemic allergic	
					reactions, including angioedema, urticaria,	
					pruritus, rash, anaphylaxis	
	Timolol				signs and symptoms	pruritus
	drops, solution				of allergic reactions including	
					angioedema, urticaria, localized and	
					generalized rash, ananhulavis	
Metabolism and	Timolol					hypoglycaemia
nutrition disorders	drops, solution					
Psychiatric	Timolol			depression*	insomnia*,	haullucination
	drops, solution				loss	
Nervous system disorders	Dorzolamide hydrochloride		headache*		dizziness*, paraesthesia*	
	eye drops,					
	Timolol		headache*	dizziness*,	paraesthesia*,	
	maleate eye drops, solution			syncope*	increase in signs and symptoms of	
					myasthenia gravis, decreased libido*.	
					cerebrovascular	
					ischaemia	
Eye disorders	COSOPT	burning and	conjunctival injection.			
		stinging	blurred vision,			
			erosion,			
			tearing			
	Dorzolamide hydrochloride		eyelid inflammation*	iridocyclitis*	irritation including redness*, pain*, evelid	foreign body sensation in
	eye drops,		eyelid irritation*		crusting*, transient	eye
	SURGUI		= mendUl I		resolved upon	
					therapy), corneal	
					oedema*, ocular hypotony*, choroidal	
					detachment (following filtration surgery)*	
	Timolol		signs and	visual	ptosis, diplopia,	itching, tearing,
	drops, solution		symptoms of ocular	disturbances including	(following fitration	redness, blurred vision,
			irritation including	refractive changes	surgery)*	comeal erosion
			blepharitis*, keratitis*.	(due to withdrawal		
			decreased	of miotic		
			sensitivity,	some		
Ear and	Timolol		and dry eyes	Cases)	tinnitus*	
labyrinth disorders	maleate eye drops, solution					
Cardiac	Timolol			bradycardia*	chest pain*,	atrioventricular
disorders	drops, solution				palpitation", oedema", arrhythmia*,	block, cardiac failure
					congestive heart failure*, cardiac	
	D 1 11				arrest*, heart block	1.5.0
	hydrochloride					paipitations
	eye drops, solution					
Vascular	Timolol				hypotension*,	
disorders	drops, solution				Raynaud's	
					phenomenon*, cold hands and feet*	
Respiratory,	COSOPT		sinusitis		shortness of breath,	
mediastinal					rhinitis, rarely	
aisorders	Dorzolamide				epistaxis*	dysphoea
	hydrochloride					
	solution					
	Timolol maleate eve			dyspnea*	bronchospasm (predominantly in	
	drops, solution				patients with	
					bronchospastic	
					failure, cough*	
Gastrointestinal disorders	COSOPT	dysgeusia				
	Dorzolamide		nausea*		throat irritation, dry	
	hydrochloride eve drops.				mouth*	
	solution					
	Timolol maleate eye			nausea*, dyspepsia*	diamhea, dry mouth"	dysgeusia, abdominal
	drops, solution					pain, vomiting
Skin and	COSOPT				contact dermatitis,	
subcutaneous tissue disorders					stevens-Johnson syndrome, taxic	
	Darzolomiała				epidermal necrolysis	
	hydrochloride				rual I	
	eye arops, solution					
	Timolol maleate eve				alopecia*, psoriasiform rash cr	skin rash
	drops, solution				exacerbation of	
					L NOULIGEIS	

System Organ Class (MedDRA)	Formulation	Very Common	Common	Uncommon	Rare	Not Known**
Musculoskeletal and connective tissue disorders	Timolol maleate eye drops, solution				systemic lupus erythematosus	myalgia
Renal and urinary disorders	<u>COSOPT</u>			urolithiasis		
Reproductive system and breast disorders	Timolol maleate eye drops, solution				Peyronie's disease*, decreased libido	sexual dysfunction
General disorders and administration site conditions	Dorzolamide hydrochloride eye drops, solution		asthenia/ fatigue*			
	Timolol maleate eye drops, solution			asthenia/ fatigue*		

 Image on Image of the second with COSOFT during post-marketing experience.

 \*\*Additional adverse reactions have been seen with ophthalmic beta-blockers and may potentially occur with COSOFT.

 XII.OVERDOSAGE

 No data are available with regard to human overdosage by accidental or deliberate ingestion of CCSOFT.

 Systemic effects similar to those seen with systemic beta-adverse; the starbit such as dizprises; head-thy, shortness of head-reference beta-adverse; blocking agents such as dizprises; head-thy, shortness of head-reference beta-adverse; blocking agents such as dizprises; head-thy, shortness of head-reference beta-adverse; blocking agents such as dizprises; head-thy, shortness of head-reference beta-adverse; blocking agents such as dizprises; head-thy, shortness of head-reference beta-adverse; blocking agents such as dizprises; head-thy, shortness of head-thy thead-yaradic, bronchospaern, and cardisc areast. The most common development of a addrets data and possibly contain lervous system effects.

 Only inted information is available with regard to human overdose by accidental or deliberate ingestion of dorcolamide hydrochoride. With oral ingestion, sommolence has been reported. With topical application the following have been reported; nausea, dizzines, head-thy, failque, abnormal dresms, and dysphagia.

 Textment should be symptomatic and supportive. Serum electrolytic levels (particularly obtassim) and block of Hields should be normated. Studies have shown that timolic does not dialyze readily.

 VOESOPT is a valeable in 5 ml bottls.
 The bottle is made up of a while transhoure low-density polyethylene bottle, a transparent dropper tip ard a while action; colorises to neary colorless, sightly viacous solution.

CGSOPT is a clar, colortess to nearly colortess, slightly viscous solution. XIII:a Storage CCSOPT Cythitalmic Solution: Store at or balow 30°C. Protect from light. Discard one mount after first opening. XIV. INSTRUCTIONS FOR USE Do not allow the tip of the container to touch the eye or areas around the eye. It may become contaminated with bacteria that can cause eye infections leading to serious damage of the eye, even loss of vision. To avoid possible containminated the container, keep the tip of the container away from contact with my surface. If you timk your medication may be contaminated of the prise of the eye an eye infection, onchard time, taxor of the plastic safety strip. Zerey time you use COSOPT: 1. Vash your heads 2. Open the bottle. Take special care that the tip of the dropper bottle does not touch your eye, the skin around your eye or your fingers. 3. The your head backwards and hold the bottle upside down over the eye.



4. Pull the lower eyelid downwards and look up. Gently squeeze the bottle and let one drop fall into the space between the lower eyelid and the eye.



5. Pri Press a finger into the corner of your eye, by the nose, or close your eyelids for 2 minutes. This helps to stop the medicine from getting into the rest of the body.



Repeat steps 3 to 5 with the other eye if instructed to do so by your doctor.
 Put the cap back on and close the bottle tightly.

# MANUFACTURED BY

MANUFACTURED BY SANTEN PHARMACEUTICAL CO., LTD. Noto Plant: 2-14, Shiknami, Hodatsushimizu-cho, Hakui-gun, Ishikawa, Japan This Package Insert was last revised in Apr-2021

SHCSG-CSP-042021