







BLEPH	A R (o s								6	TWIN CITIES OCULAR SURFACE DISEASE SYMPOSE
ast Ocular Histor						Past Ocular Histor					
Doular Disease		Year	Procedure	Eye	Date	Ocular Disease	fye	Year	Procedure	fye	[Date]
Slepharospasm		2016	INJECTION-XEOMIN	OU	12/14/2016	frown lines	OU	2018	INJECTION-XEOMIN	OU	02/07/2018
Slepharospasm	OU	2017	INJECTION-XEOMIN	ou	10/23/2017	frown lines	ΟU	2017	INJECTION-XEOMIN	OU	04/10/2017
Liegharospasm	F1 8 01	2015	INJECTION XEOMIN	711.01	09/14/2015		-	-	INJECTION-BOTOX	_	10/31/2016
orepriary spassis	ecc.	2413	INDECTION-NEORIN	POOL IL	09/14/2015	frown lines	-	+	INJECTION-BOTOX	_	01/04/2013
Siepharospasm	Ott	2016	INJECTION-XEOMIN	OU	09/12/2016						
	1					frown lines/crowsfeet			INJECTION-BOTOX		10/08/2012
blepharospasm	SUL/LL	2015	INJECTION-BOTOX	BUL/LL	06,08/2015						
						frown lines			INJECTION-BOTOX		07/30/2012
Slepharospasm	OU	2018	INJECTION-XEOMIN	OU	05/18/2018		_	_		_	
	-	_				frown lines			INJECTION-BOTOX		04/16/2012
Biepharospasm	OU	2016	Injection-Xeomin	OU	04/11/2016		-	-	INJECTION-BOTOX	_	01/20/2012
	OU	2017	INJECTIONALFOMIN	OU	03/20/2007				INDECTION-BUTUK		01/20/2012
blepharospasm	00	2017	INJECTION-XEOMIN	100	03/20/2017	from lines	-	-	INJECTION-BOTOX	_	10/18/2011
Siroharospasm	OU	2015	INJECTION-ROTOX	OU	03/02/2015				and the state of t		
and the colonies	100	2023	are capital and	Poo	03/02/2023	frown lines	-	-	INJECTION-BOTOX	_	06/17/2011
Siroharospasm	QU	2018	INJECTION-XEOMIN	OU	01/29/2018						
	1					frown lines		-	INJECTION-BOTOX		01/14/2011
Biepharospasm	OU	2016	Injection-Xeomin	OS	01/04/2016						
						frown lines			INJECTION-BOTOX		09/21/2010
	-		LASIX - Custom	OU	00,00/1998	from lines	-	-	INJECTION-BOTOX	_	05/20/2010
Slepharitis	OU		Lipiflow	OU		rrown in 6		1	INDECTION-60TOX		05/20/2000
Dry Eye			Punctal Plugs	OS		from lines	-	+	INJECTION-BOTOX	_	02/22/2000
Slepharospasm Slepharospasm	OU	-		_				1	INDECISOR-BOTOX		ANTANIANA NA
Slepharospasm Catacact	OU	-		_	$\overline{}$	frown lines	-	+	INJECTION-BOTOX	_	10/19/2009
Cataract Conjunctivo chalasis	OU	-		_	$\overline{}$			1			
Melbomian Gland	OU	-		_	_	frown lines		_	INJECTION-BOTOX		07/13/2009
Dystunction	100							1			
Subconjunctival	00	-		_				-	INJECTION-BOTOX	_	04/27/2009

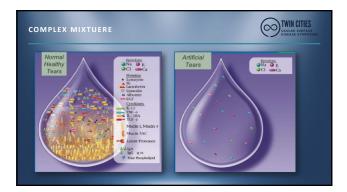




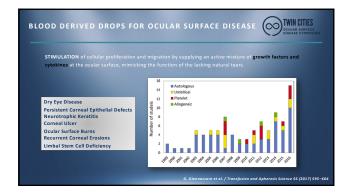


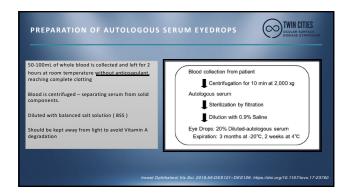


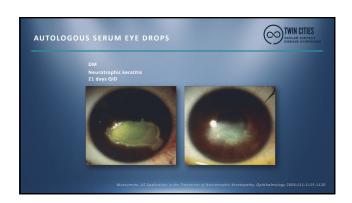


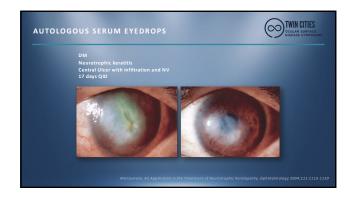




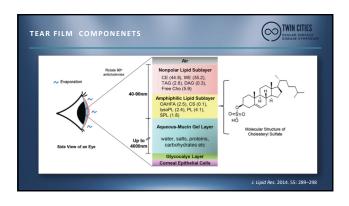


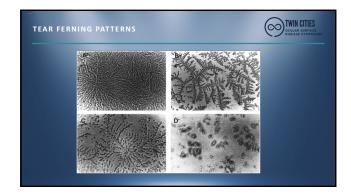


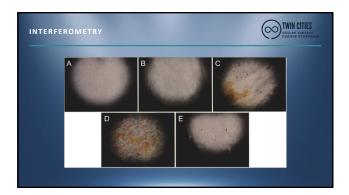


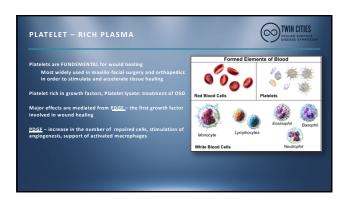


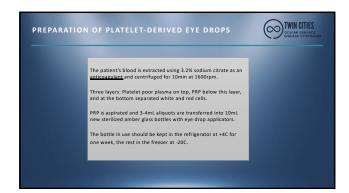
AUTOLOGOUS SERUM AND TEAR FILM COM	PONENE	rs 🚫	TWIN CITIES DOULAR SURFACE DISEASE SYMPOSIUM	
		Concer	ntration	
Lysozyme, lactoferrin, albumin = major components in tears	Components	Tear, Basal	Serum†	
Albumin, IgG = major components in serum	Proteins Total protein Lysogyme	7.51 mg/mL 2.36 mg/mL	66-81 mg/ml. 5.0-10.2 ug/ml.	
Infection via serum can occur	Lactoferrin	1.84 mg/mL	0.17-0.28 mg/ml.	
Serum itself is unstable and probably degraded by internal enzymes	Albumin IgA IgD IgE	1.3 mg/mL 0.30 mg/mL ND 0.1 ug/mL	41-51 mg/ml. 0.93-3.93 mg/ml. 0.03 mg/ml. 0.4 ug/ml.	
Use of serum components — can minimize these challenges	IgG IgM CuZn-SOD Growth factors EGF TGF-2, male TGF-2, female TGF-51 TGF-52 Vitamins Vitamin A Vitamin C Anticoxidants Tyrosine	0.126 mg/I. 0.86 µg/mL 103 ng/mg protein 1.66 ng/mL 247 pg/mL 180 pg/mL Not detected 2.52 ng/mL 55 pg/mL 16 ng/mL 17 µg/mL	8.61-17.47 mg/ml. 0.35-1.83 mg/ml. ND1 0.72 ng/ml. 147 pg/ml. 147 pg/ml. 140.3 ng/ml 200-500 ng/ml. 5-9 µg/ml.	
st Ophthalmol Vis Sci. 2018:59:DES121-DES129. https://doi.org/10.1167/iovs.17-23760	Glutathione	45 μM 107 μM 26 mg/L	ND‡ 0.6-1.2 g/L	

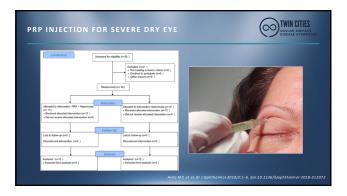


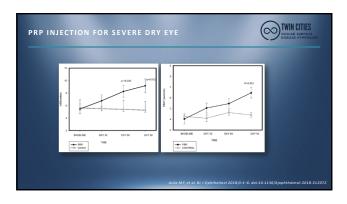


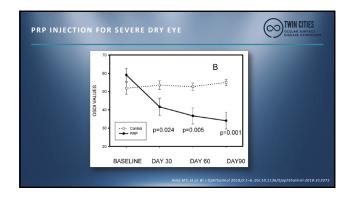




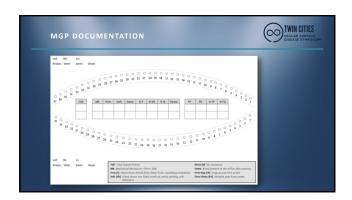






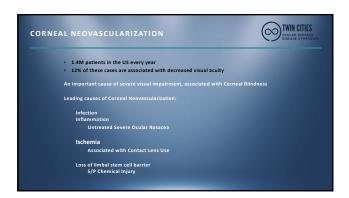


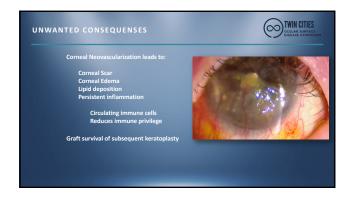
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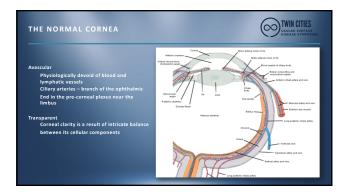


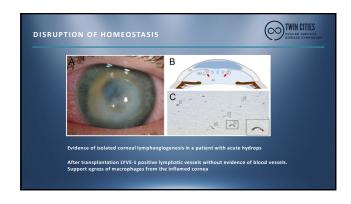




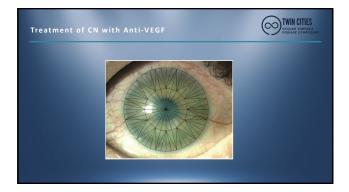
















TWIN CITIES OCULAR SURFACE DISEASE SYMPOSIUM
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