

PAKISTAN Retinopathy of Prematurity Educational & Research Alliance Newsletter

PROPERA

Issue No: 29/11/16

Volume No: 2/Propera/16

Participants

-USA

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Message

Dr Umar K Mian Director Retina Service, Montefiore Med Center, Albert Einstein Coll of Med, New York

Salaam O Alikum

I would like to take this opportunity to introduce and update you on the purpose and activities of the PROPERA Network.

It is heartening to see the increasing interest in PROPERA across the country. We started this network 3 years ago with an aim to increase the awareness of ROP among Ophthalmologists, Neonatologist and general public to help decrease life-long blindness in our premature children.

PROPERA has been fortunate to have **Dr Graham Quinn** (Children's Hospital of Philadelphia) **Dr Sajid Maqbool** and **Prof Daud** Khan as our Mentors. We have more than 50 active participants (neonatologists and ophthalmologist) and 5 sites currently running the screening programs. National Institute of Child Health, Lahore General Hospital, PIMS, Shifa International and AFIO, JPMC and Al Shifa Trust Eye Hospital have been key collaborators. Future site are Liaquat National Hospital, Punjab Childrens, Fatima Memorial, Ganga Ram and Services.

We have established initial screening guidelines (Children with Birth weight less than 2 kg or Gestational age of 35 weeks or less) and have a created a comprehensive system for ROP screening. This system can be implemented in NICUs across the country to help decrease blindness in our premature infant population.

Our Key Ophthalmologists are in Karachi Dr Alyscia Cheema, Lahore Prof M Moin, Islamabad Dr Sorath Noorani and AFIO Dr Ahsan Mukhtar If you would like to get more information or need help in starting a program in your NICU please contact them.

We are running education modules and sessions on 'how to establish ROP screening centers' in different hospitals across the country.

The upcoming event is an ROP symposium on Dec 4 during OSP annual meeting in Lahore. I invite you to join us at the meeting. We plan a panel discussion to discuss difficulties faced by departments running an ROP screening program in Pakistan.

We will be planning a similar course in Karachi and Islamabad next year.

Warmest regards

Lahore Ophthalmo, 6thDecember, 2015



ROP Training Program LGH, 12 April, 2016







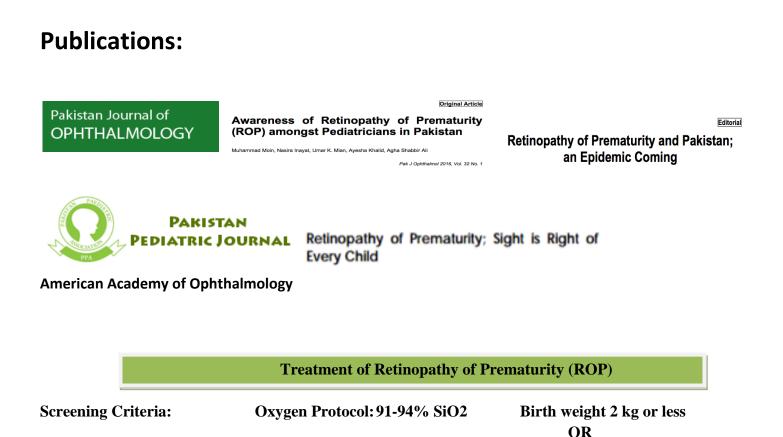
Grand Rounds, Montefiore Medical Center, New York.11 July,16





SAARC Conference Karachi 18 August, 16

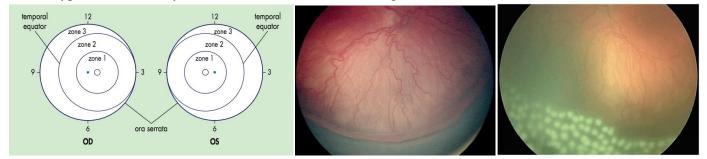




Screening Protocol:

First screening at 4 weeks post gestation or 35 weeks (what ever comes first). Using of dilating drops, lid speculum and indirect ophthalmoscopy with 20/28 D lens with indentation. Record findings pertaining to Zone, Stage and presence or absence of plus disease. Follow up according to level of severity more severe 1 week and less severe 2 weeks. Special care needs to be taken to educate the parents so they do not miss the post discharge visit as type 1 ROP usually occurs between 36-38 weeks of gestation.

Gestational age 35 weeks or less



Treatment of ROP:

Timely treatment (with 24-48 hours) can reduce poor visual outcome from nearly 40% to less than 10 %. Treatment is done for**Type 1 ROP**; Zone 1 and plus disease, Zone 1 and stage 3, Zone 2 stage 3 and plus.It consists of 360 degree ablation of the avascular retina anterior to the region of the active disease to arrest the progression of ROP. The ridge and extravascular fibroproliferation at the junction between the avascular and vascularized retinal should be avoided. Both cryo and laser treatment may be painful procedures, thus, both should be performed under either sedation or full anesthesia, ensuring a good analgesia. When an anesthetist is not available, an experienced neonatologist should give support. If the treatment is not being performed at the neonatal unit, facilities for artificial ventilation, resuscitation equipment and intravenous line must be available. Mydriasis should be achieved prior to cryotherapy or laser. Laser is the preferred treatment than Cryopexy.

Laser Photo-coagulation:

- Diode Laser (used extensively preferably red).

- 1. Laser Indirect delivery system. Aiming for greyish white spots.
- 2. 200-500 milliwatts, and 0.2-0.5 seconds.

The avascular retina should be treated with a distance between laser spots of no more than half of spot **Complications:**

Systemic: Apnea, bradycardia, oxygen desaturation are common. These complications can occur during the first 3 days after treatment and require mechanical ventilation.

Eye: Subconjunctival haematoma, swollen of the eyelids, conjuctival laceration, vitreous haemorrhage, cataract may develop in 1-2%.

Treatment of very posterior ROP is generally easier with Anti-VEGF therapy.): Vitreoretinal surgery may be indicated for Stage IVa or b.



Ophifian Lahore

PROPERA Sessions at the Lahore Ophthalmo 16

W07		Workshop on ROP 1 "Educati	onal Mo	dule"		
Chairman Uma	ar K Mian	Emerald A				
Co-Chair Kha	lid Waheed	04-Dec-16	Start	9:30 AM		
Moderator Khu	rram Azam Mirza	Sunday	End	11:00 AM		
Soorath Noorani		Pathogensis is of ROP			9:30 AM	9:42 AM
Alycia Cheema		ROP Classification			9:42 AM	9:54 AM
Umar K Mian		Clinical Trials in ROP			9:54 AM	10:06 AM
Tanveer Chaudha	ary	Laser Treatment ROP			10:06 AM	10:18 AM
Muhammad Moi	n	Anti-VEGF Treatment in ROP			10:18 AM	10:30 AM
Umar K Mian		Discussion			10:30 AM	10:42 AM

W08	Workshop on ROP 2 "Educational and Research Alliance"		
Chairman Alycia Cheema	Emerald A	/	
Co-Chair Irfan Jeeva	04-Dec-16 Start 11:30 AM		
Moderator Muhammad Moin	Sunday End 1:00 PM		
Muhammad Moin	Introduction	11:30 AM	11:37 AM
Irfan Jeeva	Oxygen Protocol for ROP	11:37 AM	11:44 AM
Shabina Arif	Neonatologist Responsibilities	11:44 AM	11:51 AM
Irfan Jeeva	Screening Criterion for ROP / ROP-Coordinator	11:51 AM	11:58 AM
Ehsan Mukhtar	Ophthalmologists Responsibilities	11:58 AM	12:05 PM
Umar K Mian	PROPERA, Universal System	12:05 PM	12:12 PM
Sajid Maqbool	Combined Neonatology Dat for ROP ROP	12:12 PM	12:19 PM
Umar K Mian	Combined Ophthalmology Data foROP	12:19 PM	12:26 PM
Shabina Arif	Problems in ROP: Neonatologists View	12:26 PM	12:33 PM
Agha Shabbir	Solutions for ROP: Neonatologists View	12:33 PM	12:40 PM
Soorath Noorani	Problems in ROP: Ophthalmologists	12:40 PM	12:47 PM
Alycia Cheema	Solutions for ROP: Ophthalmologists	12:47 PM	12:54 PM



We invite all participants to join the network. Please give us your information at the end of the session