

Profiling of Retinopathy of Prematurity (ROP) Patterns at Various Gestational Ages in a Tertiary Care Institute in North India: A Retrospective Study



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Supplementary Table 1. 26 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ no ROP	7.142857143	42.85714286	7.142857143
PERIPHERY AVASCULAR	57.14285714	0	0
ZONE 2 STAGE 1	28.57142857	21.42857143	0
ZONE 2 STAGE 2	7.142857143	21.42857143	0
ZONE 2 STAGE 3	0	7.142857143	28.57142857
ZONE 3 STAGE 1	0	7.142857143	0
RETINA MATURED	0	0	64.28571429
INTERVENTION 26 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	71.42857143		
AVEGF + LASER	14.28571429		
AVEGF	14.28571429		

Supplementary Table 2. 27 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ no ROP	7.142857143	46.42857	7.142857
PERIPHERY AVASCULAR	42.85714286	0	0
ZONE 2 STAGE 1	7.142857143	7.142857	0
ZONE 2 STAGE 2	17.85714286	10.71429	0
ZONE 2 STAGE 3	7.142857143	17.85714	28.57143
ZONE 3 STAGE 1	14.28571429	14.28571	0
ZONE 3 STAGE 2	3.571428571	0	-
ZONE 3 STAGE 1	0	3.571429	3.571429

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
RETINA MATURED	0	0	60.71429
INTERVENTION 27 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	64.28571429		
AVEGF + LASER	25		
AVEGF	10.71428571		

Supplementary Table 3. 28 gestational weeks.

FINDINGS	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ NO ROP	11.76470588	17.64705882	0
PERIPHERY AVASCULAR	32.35294118	2.941176471	0
ZONE 2 STAGE 1	7.352941176	4.411764706	0
ZONE 2 STAGE 2	11.76470588	20.58823529	1.470588235
ZONE 2 STAGE 3	5.882352941	11.76470588	17.64705882
ZONE 3 STAGE 1	19.11764706	29.41176471	10.29411765
ZONE 3 STAGE 2	10.29411765	10.29411765	13.23529412
ZONE 3 STAGE 3	1.470588235	2.941176471	2.941176471
RETINA MATURED	0	0	54.41176471
INTERVENTION 28 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	60.2941176		
AVEGF + LASER	22.0588235		
AVEGF	11.7647059		
LASER	5.88235294		

Supplementary Table 4. 29 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ NO ROP	8.695652174	21.73913043	0
PERIPHERY AVASCULAR	21.73913043	5.797101449	0
ZONE 2 STAGE 1	13.04347826	5.797101449	1.449275362
ZONE 2 STAGE 2	5.797101449	5.797101449	1.449275362
ZONE 2 STAGE 3	1.449275362	2.898550725	4.347826087
ZONE 3 STAGE 1	37.68115942	46.37681159	10.14492754
ZONE 3 STAGE 2	10.14492754	5.797101449	5.797101449
ZONE 3 STAGE 3	1.449275362	5.797101449	5.797101449
RETINA MATURED	0	0	71.01449275
INTERVENTION 29 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	82.6087		
AVEGF + LASER	10.14493		
AVEGF	4.347826		
LASER	2.898551		

Supplementary Table 5. 30 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ NO ROP	60.55046	61.46789	0
PERIPHERY AVASCULAR	3.669725	0	0
ZONE 2 STAGE 1	0	0	0
ZONE 2 STAGE 2	0.917431	0	0
ZONE 2 STAGE 3	1.834862	1.834862	1.834862385
ZONE 3 STAGE 1	27.52294	29.3578	3.669724771
ZONE 3 STAGE 2	2.752294	2.752294	1.834862385
ZONE 3 STAGE 3	2.752294	4.587156	4.587155963

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
RETINA MATURED	0	0	88.0733945
INTERVENTION 30 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	90.82569		
AVEGF + LASER	6.422018		
AVEGF	0.917431		
LASER	1.834862		

Supplementary Table 6. 31 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ NO ROP	73.63636	62.72727	0
PERIPHERY AVASCULAR	0	0	0
ZONE 2 STAGE 1	2.752294	0	0
ZONE 2 STAGE 2	0.917431	0.909091	0.909090909
ZONE 2 STAGE 3	0	1.818182	0.909090909
ZONE 3 STAGE 1	16.51376	28.18182	0.909090909
ZONE 3 STAGE 2	4.587156	4.545455	2.727272727
ZONE 3 STAGE 3	1.834862	3.636364	2.727272727
RETINA MATURED	0	0	91.81818182
INTERVENTION 31 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	92.72727273		
AVEGF + LASER	2.727272727		
AVEGF	1.818181818		
LASER	2.727272727		

Supplementary Table 7. 32 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ NO ROP	76.74419	72.09302	0
PERIPHERY AVASCULAR	1.162791	0	0
ZONE 2 STAGE 1	1.162791	0	0
ZONE 2 STAGE 2	1.162791	1.162791	0
ZONE 2 STAGE 3	0	0	1.162790698
ZONE 3 STAGE 1	16.27907	24.4186	1.162790698
ZONE 3 STAGE 2	3.488372	2.325581	2.325581395
ZONE 3 STAGE 3	0	0	0
RETINA MATURED	0	0	95.34883721
INTERVENTION 32 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	97.67442		
AVEGF + LASER	0		
AVEGF	1.162791		
LASER	1.162791		

Supplementary Table 8. 33 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL/ NO ROP	81.63265306	81.63265306	0
PERIPHERY AVASCULAR	2.040816327	0	0
ZONE 2 STAGE 1	0	0	0
ZONE 2 STAGE 2	0	0	0
ZONE 2 STAGE 3	2.040816327	2.040816327	2.040816327
ZONE 3 STAGE 1	14.28571429	14.28571429	0
ZONE 3 STAGE 2	0	2.040816327	0

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
ZONE 3 STAGE 3	0	0	0
RETINA MATURED	0	0	97.95918367
INTERVENTION 33 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	97.95918367		
AVEGF + LASER	2.040816327		
AVEGF	0		
LASER	0		

Supplementary Table 9. 34 gestational weeks.

FINDINGS	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL	85.54217	86.74699	0
PERIPHERY AVASCULAR	0	0	0
ZONE 2 STAGE 1	0	0	0
ZONE 2 STAGE 2	0	0	0
ZONE 2 STAGE 3	0	0	0
ZONE 3 STAGE 1	10.84337	9.638554	1.204819277
ZONE 3 STAGE 2	3.614458	1.204819	1.204819277
ZONE 3 STAGE 3	0	2.409639	1.204819277
RETINA MATURED	0	0	96.38554217
INTERVENTION 34 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	96.38554		
AVEGF + LASER	2.409639		
AVEGF	0		
LASER	1.204819		

Supplementary Table 10. 35 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL	87.5	87.5	0
PERIPHERY AVASCULAR	0	0	0
ZONE 2 STAGE 1	0	0	0
ZONE 2 STAGE 2	0	0	0
ZONE 2 STAGE 3	0	0	0
ZONE 3 STAGE 1	12.5	12.5	12.5
ZONE 3 STAGE 2	0	12.5	0
ZONE 3 STAGE 3	0	25	0
RETINA MATURED	0	0	87.5
INTERVENTION 35 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	100		
AVEGF + LASER	0		
AVEGF	0		
LASER	0		

Supplementary Table 11. 36 gestational weeks.

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
NIL	0	0	0
PERIPHERY AVASCULAR	0	0	0
ZONE 2 STAGE 1	0	0	0
ZONE 2 STAGE 2	0	0	0
ZONE 2 STAGE 3	0	0	0
ZONE 3 STAGE 1	100	100	0

Findings	1ST ROP WK (%)	2ND ROP WK (%)	3RD ROP WK (%)
ZONE 3 STAGE 2	0	0	0
ZONE 3 STAGE 3	0	0	0
RETINA MATURED	0	0	100
INTERVENTION 36 GESTATIONAL WEEKS (%)			
ROP REGRESSED/NO ROP	100		
AVEGF + LASER	0		
AVEGF	0		
LASER	0		

Supplementary Table 12a. Regression statistics ROP Regressed/No ROP of intravitreal anti VEGF injections + LASER cases.

Multiple R	0.981649665
R Square	0.963636064
Adjusted R Square	0.959595627
Standard Error	2.979911589
Observations	11

Supplementary Table 12b. ANOVA of ROP Regressed/No ROP of intravitreal anti VEGF injections + LASER cases.

-	df	SS	MS	F	Significance F
Regression	1	2117.832	2117.832	238.498	8.76E-08
Residual	9	79.91886	8.879873	-	-
Total	10	2197.75	-	-	-

Supplementary Table 12c. Statistics of ROP Regressed/No ROP of intravitreal anti VEGF injections + LASER cases.

-	Coefficients	Standard Error	t Stat	p-value	Lower 95%	Upper 95%
Intercept	99.18312027	1.206643	82.19756	2.96E-14	96.45350385	101.9127367
AVEGF + LASER	-1.60801959	0.104124	-15.4434	8.76E-08	-1.843563442	-1.37247574

Supplementary Table 13a. Regression statistics of ROP Regressed/No ROP of intravitreal anti VEGF injections cases.

Multiple R	0.94144201
R Square	0.886313057
Adjusted R Square	0.873681175
Standard Error	5.26893975
Observations	11

Supplementary Table 13b. ANOVA of ROP Regressed/No ROP of intravitreal anti VEGF injections cases.

-	df	SS	MS	F	Significance F
Regression	1	1947.895	1947.895	70.16476	1.53015E-05
Residual	9	249.8555	27.76173	-	-
Total	10	2197.75	-	-	-

Supplementary Table 13c. Statistics of ROP Regressed/No ROP of intravitreal anti VEGF injections.

-	Coefficients	Standard Error	t Stat	p-value	Lower 95%	Upper 95%	Lower 95.0%
Intercept	97.21475467	2.021438	48.09187	3.64E-12	92.64194355	101.7876	92.64194
AVEGF	-2.558780337	0.305473	-8.37644	1.53E-05	-3.24980929	-1.86775	-3.24981
-	-	-	-	-	-	-	-

Supplementary Table 14a. Regression statistics of ROP Regressed/No ROP of LASER cases.

Multiple R	0.435858
R Square	0.189972
Adjusted R Square	0.099969
Standard Error	14.0643
Observations	11

Supplementary Table 14b. ANOVA of ROP Regressed/No ROP of LASER cases.

-	df	SS	MS	F	Significance F
Regression	1	417.5108	417.5108	2.110726	0.180228
Residual	9	1780.24	197.8044	-	-
Total	10	2197.75	-	-	-

Supplementary Table 14c. Statistics of ROP Regressed/No ROP of LASER cases.

-	Coefficients	Standard Error	t Stat	p-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	91.73666	5.457975	16.80782	4.18E-08	79.38986	104.0835	79.38986	104.0835
LASER	-3.49534	2.405876	-1.45283	0.180228	-8.93781	1.947132	-8.93781	1.947132

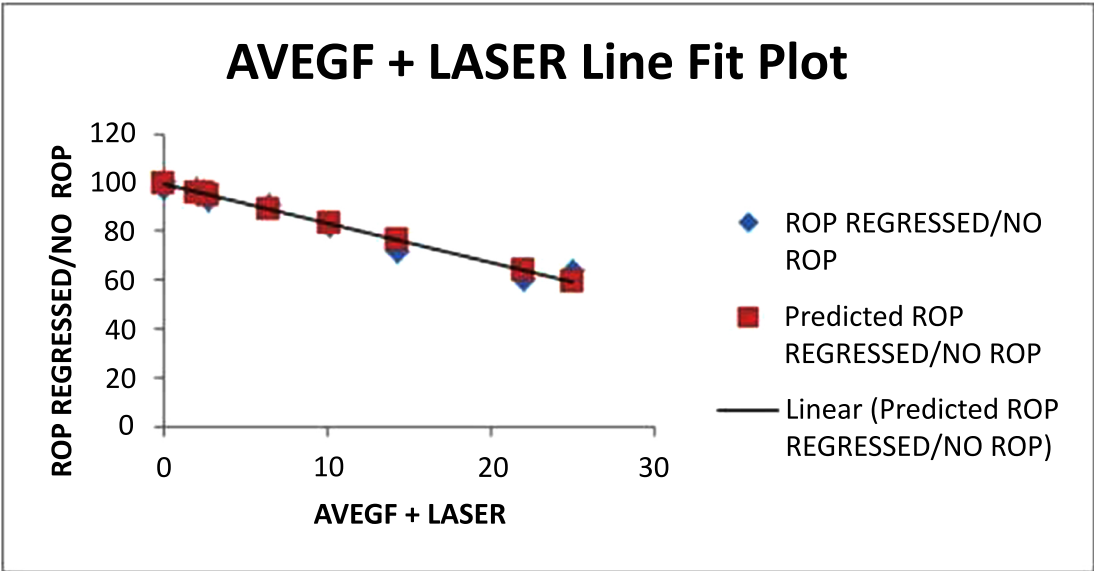


Fig. (S1). AVEGF + LASER line fit plot.

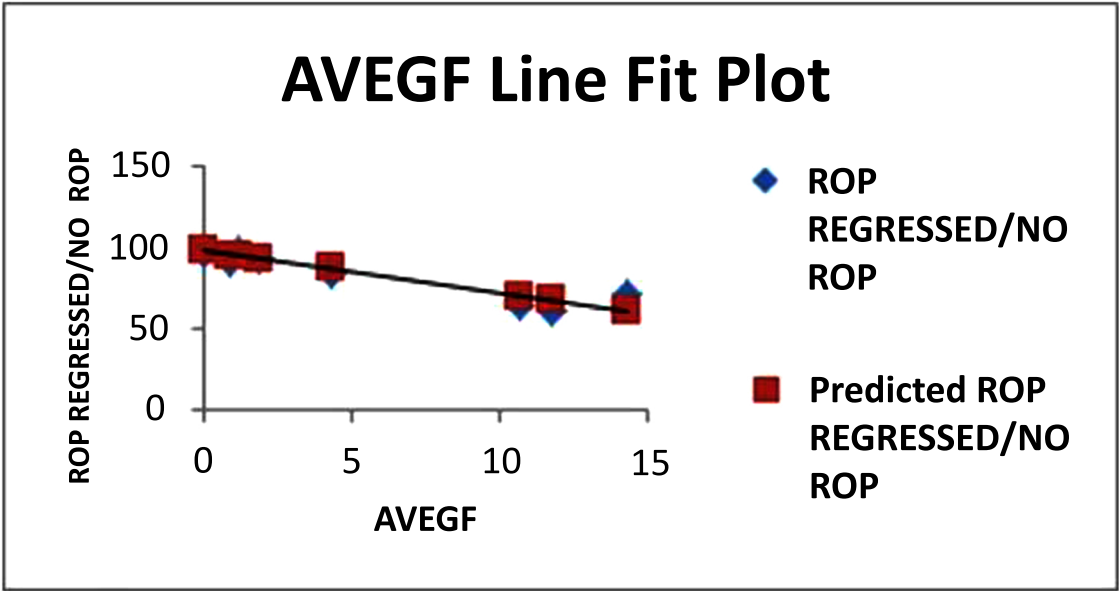


Fig. (S2). AVEGF line fit plot.

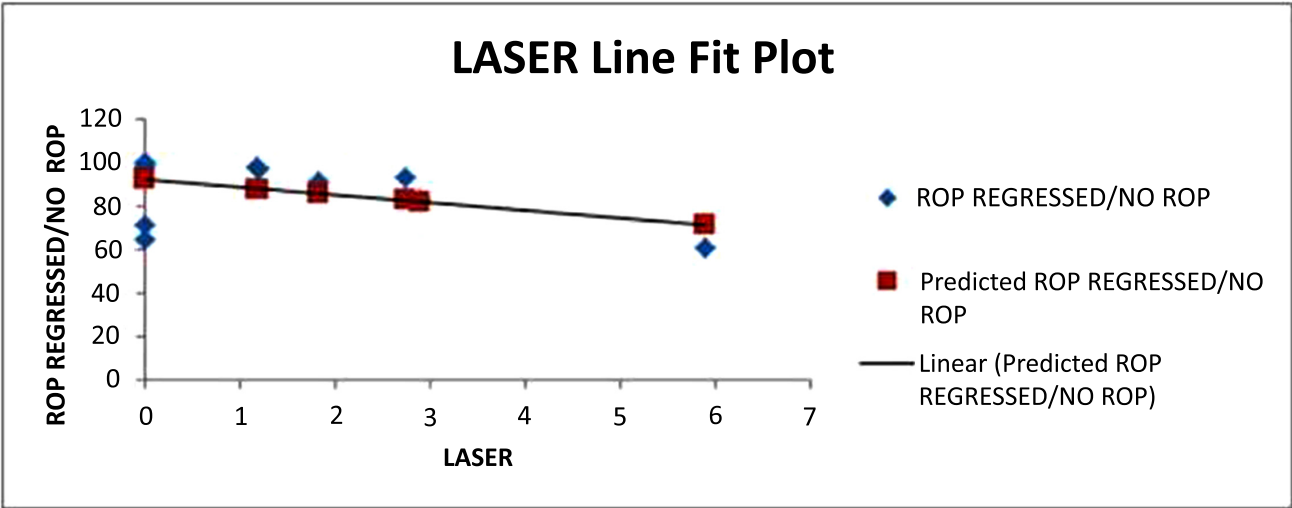


Fig. (S3). Line-fit plot of the LASER dataset.