

Reduction of venous filling time between pre and post PRP correlated to the progression of retinal neovascularization

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Purpose:

We evaluated the reduction in the venous filling time between pre and post PRP and its effect on the progression of retinal new vessel growth.

Methods:

We compared a "stabilized group" of 20 eyes with regressed or reduced new vessels and 12 eyes of an "unstable group" which need additional scatter photocoagulation or which had vitreous hemorrhage or needed vitreous surgery. Arteriovenous transit times and venous filling times were measured on fluorescein angiography.

Results:

Venous filling time was reduced 0.30(SD 1.69) sec in the stabilized group and increased 0.99(SD 1.60)sec in the unstable group. Venous filling time was significantly reduced after PRP in stabilized group($p \leq 0.05$) compared to unstable group but not arm to retinal circulation time and arteriovenous passage time.

Conclusion:

Reduction of venous filling time is suggested as an indicator for scatter laser treatment in PDR.

