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OMICS Group International is an amalgamation of Open Access publications and worldwide international science conferences and events. Established in the year 2007 with the sole aim of making the information on Sciences and technology 'Open Access', OMICS Group publishes 400 online open access scholarly journals in all aspects of Science, Engineering, Management and Technology journals. OMICS Group has been instrumental in taking the knowledge on Science & technology to the doorsteps of ordinary men and women. Research Scholars, Students, Libraries, Educational Institutions, Research centers and the industry are main stakeholders that benefitted greatly from this knowledge dissemination. OMICS Group also organizes 300 International conferences annually across the globe, where knowledge transfer takes place through debates, round table discussions, poster presentations, workshops, symposia and exhibitions.

About OMICS Group Conferences

OMICS Group International is a pioneer and leading science event organizer, which publishes around 400 open access journals and conducts over 300 Medical, Clinical, Engineering, Life Sciences, Phrama scientific conferences all over the globe annually with the support of more than 1000 scientific associations and 30,000 editorial board members and 3.5 million followers to its credit.

OMICS Group has organized 500 conferences, workshops and national symposiums across the major cities including San Francisco, Las Vegas, San Antonio, Omaha, Orlando, Raleigh, Santa Clara, Chicago, Philadelphia, Baltimore, United Kingdom, Valencia, Dubai, Beijing, Hyderabad, Bengaluru and Mumbai.

Ophthalmology-2014

OMICS Group Conferences
Accelerating Scientific Discovery

4th International Conference on
Clinical & Experimental Ophthalmology

July 14-16, 2014 Baltimore, USA

"Repercussions in Eye Microcirculation of Patients with Systemic Vascular Disease"

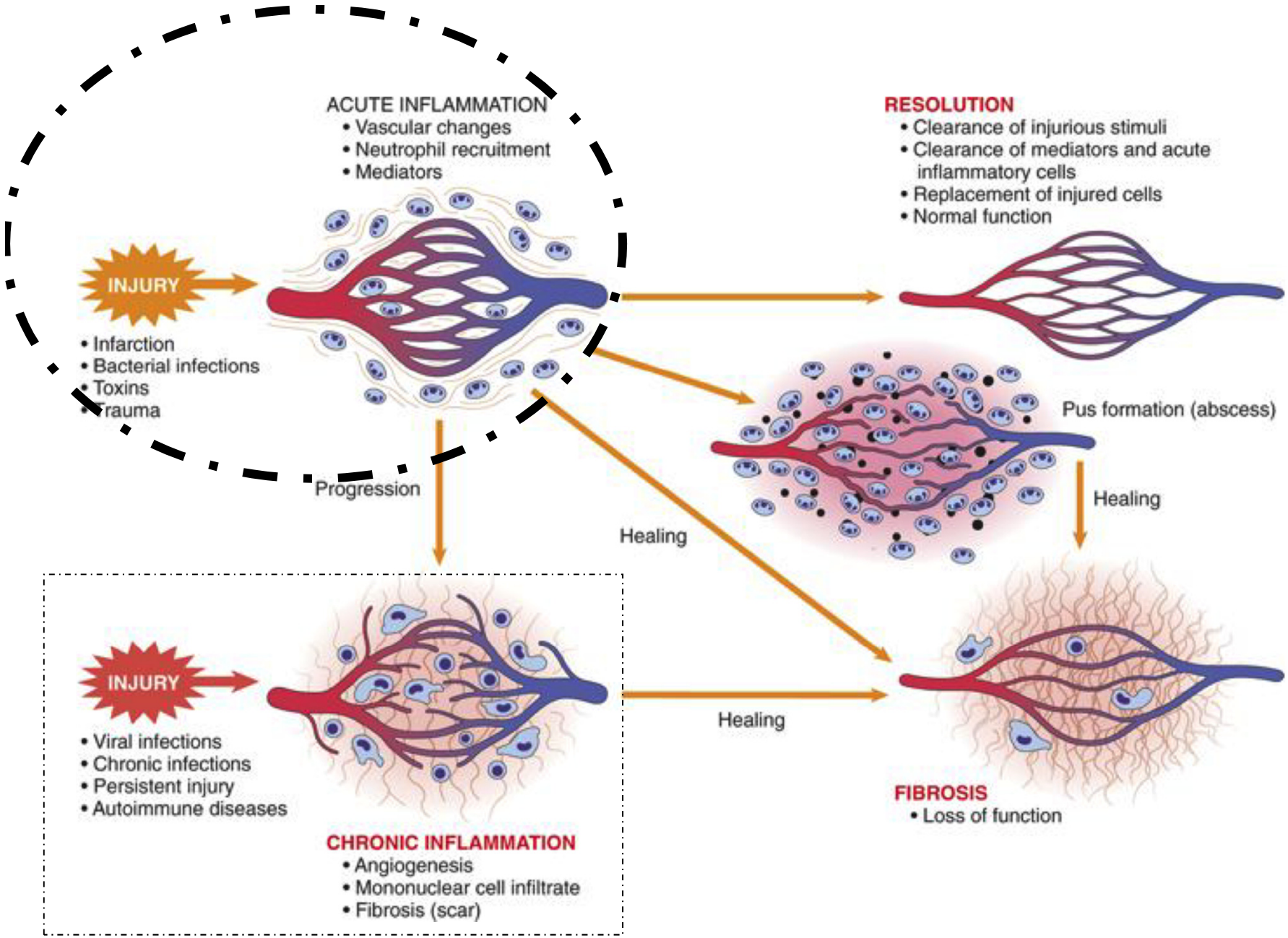
Carlota Saldanha

FACULDADE DE MEDICINA UNIVERSIDADE DE LISBOA

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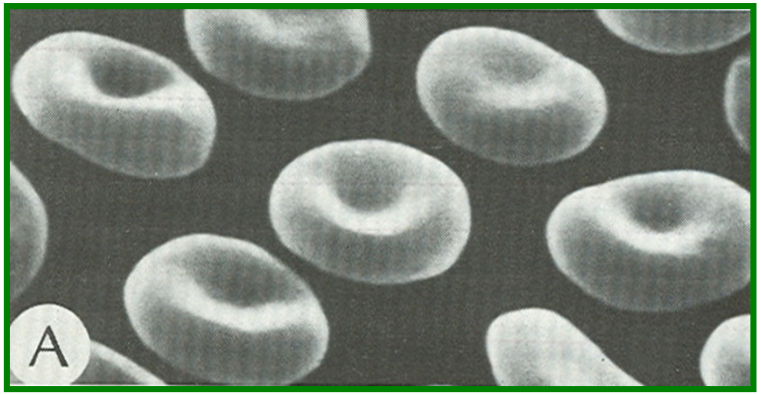
Inflammation | Hemorreology

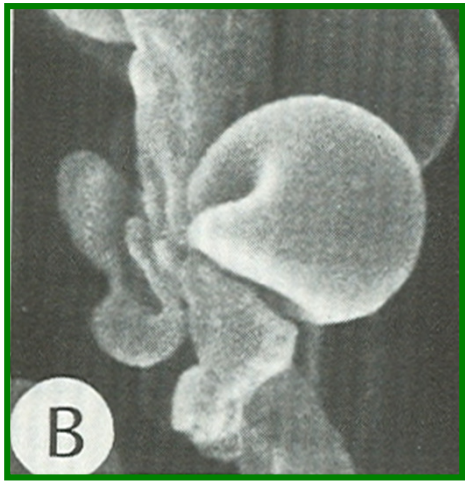
Ocular Disorders

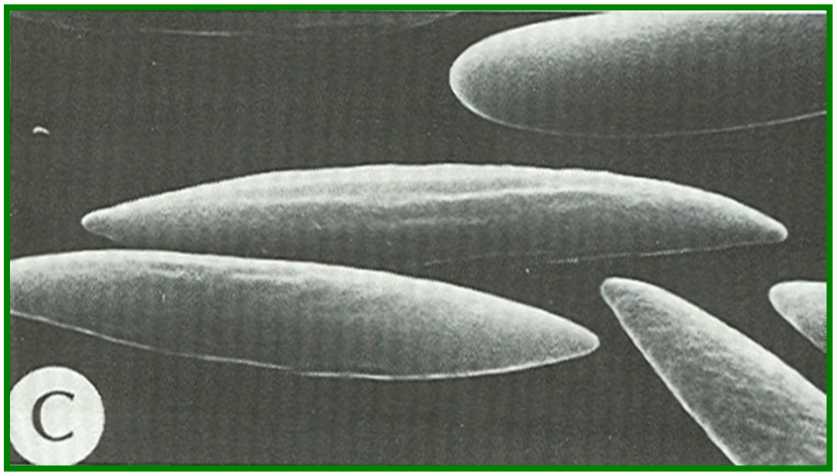


studyblue.com

Erythrocyte Deformability







Mohandas e col, ***Semin. Hematol.***, 1983; 20: 225-242

Tissue Oxygenation Dependent of Microcirculatory Changes

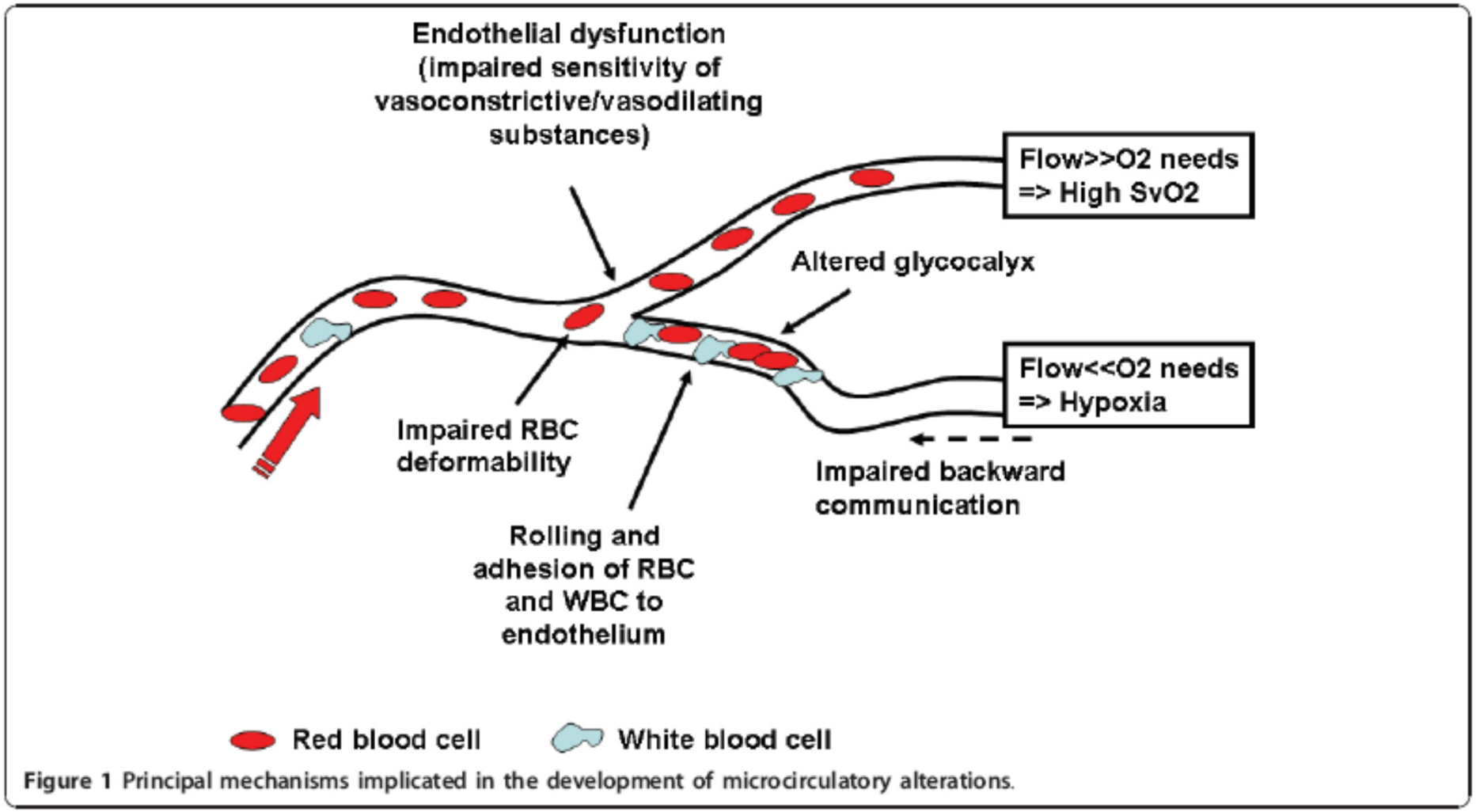


Figure 1 Principal mechanisms implicated in the development of microcirculatory alterations.

De Backer *et al. Annals of Intensive Care* 2011, **1**:27
http://www.annalsofintensivecare.com/content/1/1/27

O Médico nº1747; 1985, 112:1057-1078

"Erythrocyte and Microcirculatory Alterations in Diabetic Patiens" Rheologic characteristics and glicated proteins

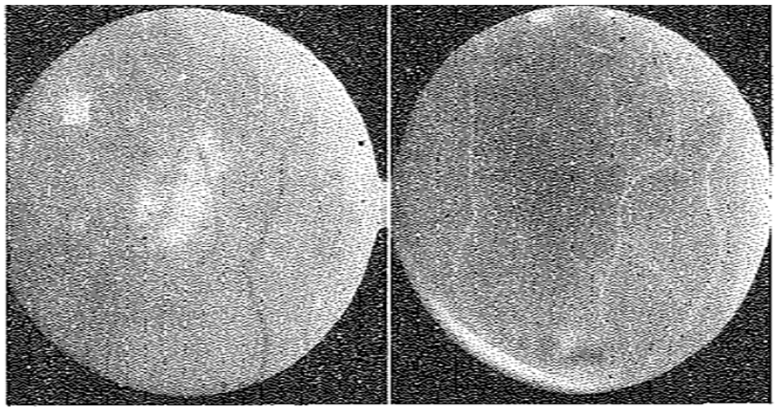
F Ley Cruz, M Carlota Proença, M Antonieta Gonzalez, J P Freitas, P Souza-Ramalho, J Martins Silva

Ernesto Roma-Boehringr Mannheim1982 Award

Type I N=13
Type II N=27
Serum Glycoproteins
HbA1
Blood filtration time

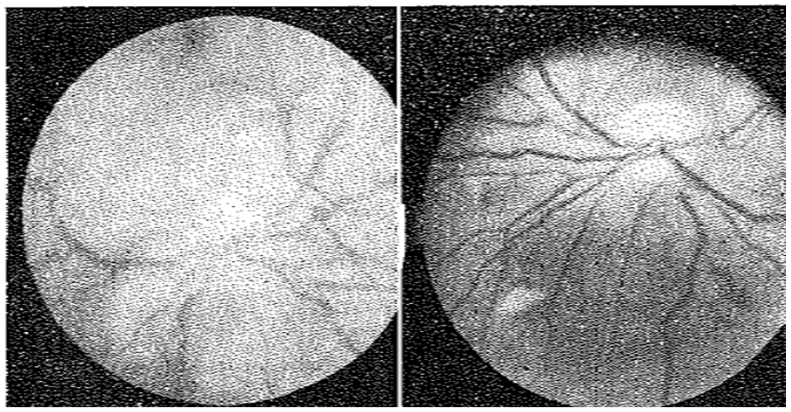
Retinophaty in Diabetic Patients

Retinography of the right eye, vascular area with hard exudates and bleeding without apparent signs of ischemia
Grade I/II?



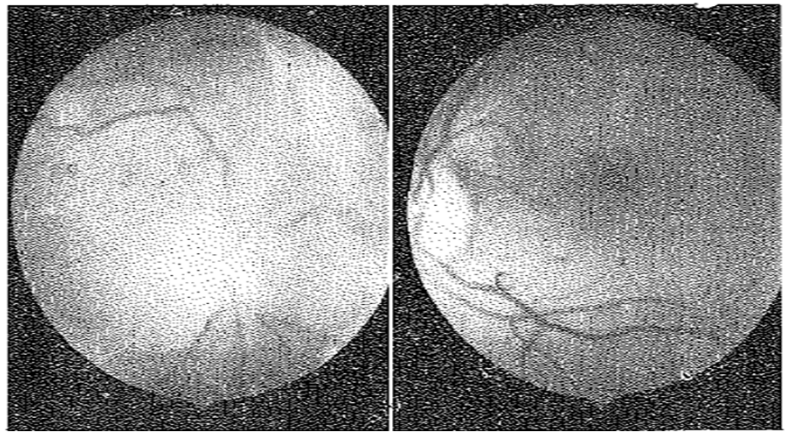
Angiography of the the same area where capillary occlusion was observed allowing the definition of Grade II

Photograph of the right fundus; hemorrhages and microaneurysms in the central macular area Grade II



Fundus photograph of the left; nasal area with algodonosa spot ischemia Grade II

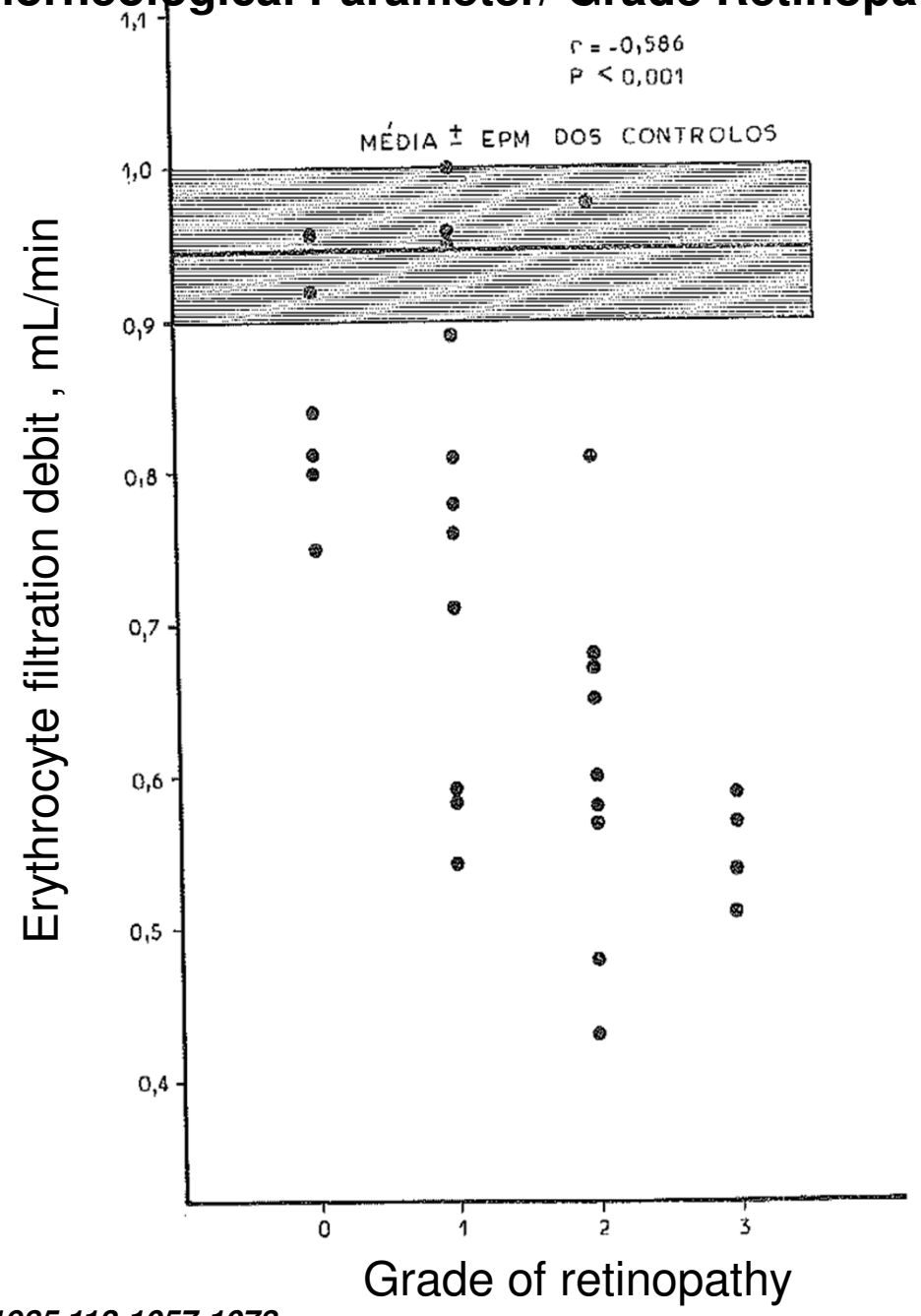
Proliferative retinopathy (Grade III) extensive ischemia: pallor of the retina



Retinography of the right eye papillary area of abnormal neovascularization configuration, extensive ischemia (Grade III

O Médico nº1747; 1985 112:1057-1078

Hemorheological Parameter/ Grade Retinopathy of Diabetic Patients



Diabetic Patients

Type I N=13
Type II N=27
High [Serum Glycoproteins]
High HbA1
High blood filtration time

Worse erythrocyte deformability more difficulties in blood perfusion in micro vessels and retinopathy development

O Médico nº1747; 1985 112:1057-1078

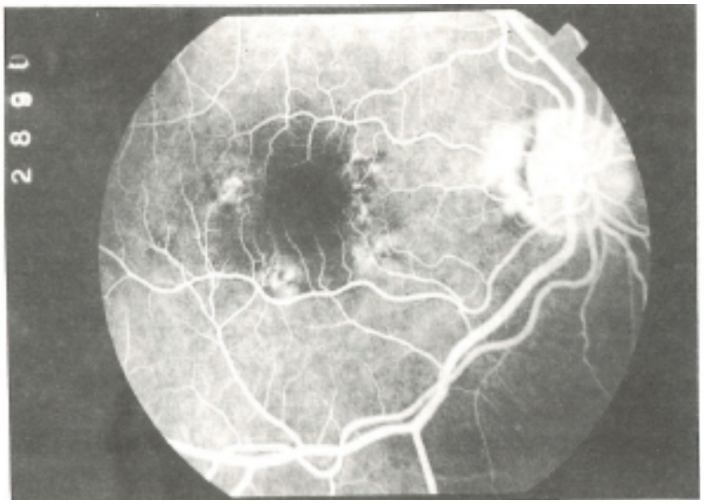
Hiperviscosity in Behçet's Disease
Rev. Port. Hemorreol. 1 (2): 89-94, 1987

HAEMORHEOLOGICAL CHANGES IN BEHÇET'S DISEASE *

P. de Souza-Ramalho*, M.D. Santos**, R. Martins°, J.P. Freitas***, L. Cardoso**, J. Pinto****, Carlota Saldanha**, J. Martins e Silva**.

*Department of Ophthalmology, **Institute of Biochemistry, Fac. Med. Lisbon, University of Lisbon, °Naval Hospital Lisbon, ***Department of Dermatology Hosp. Sta. Maria, ****Department of Dermatology, Universidade Nova de Lisboa, Lisbon Portugal

Clinical Changes in Behçet ´s Disease

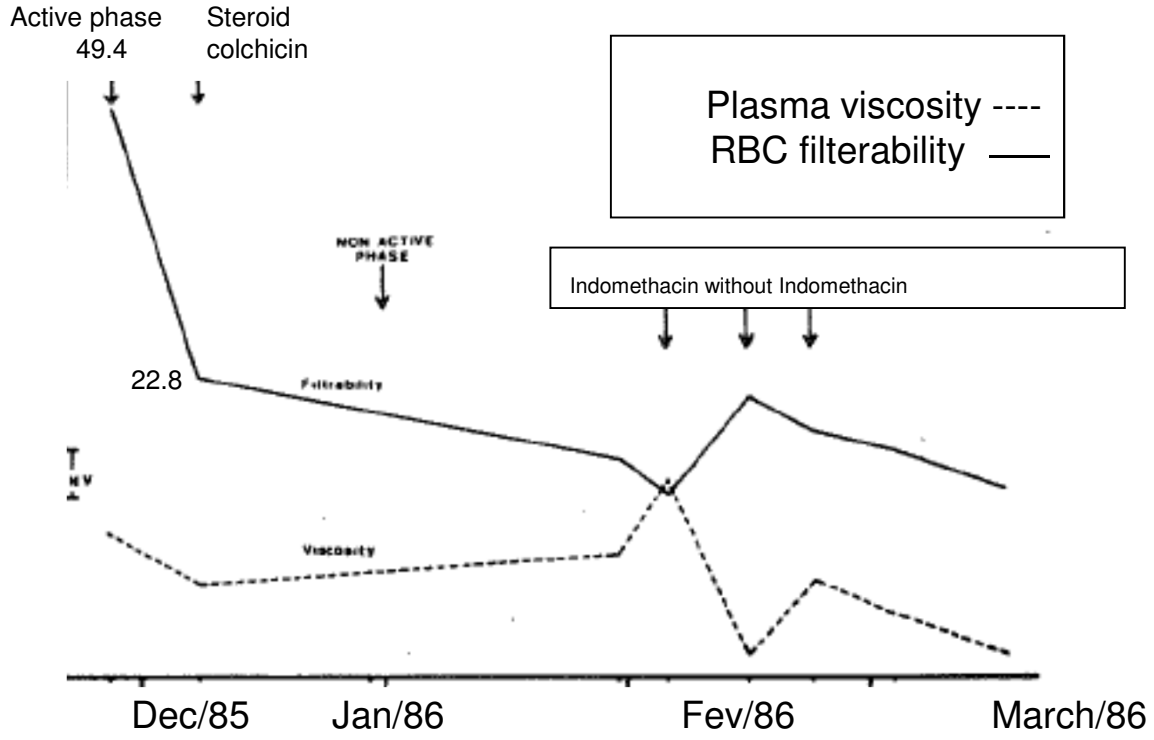


Fluorescence angiography (venous site) of the
Right eye in an acute phase : paramacular leakage
Hyperfluorescent optic disc

Systemic involvement of 20 patients

- Recurrent mouth ulcerations	20/20	100%
- Genital ulceration	15/20	75%
- Ocular involvement (clinical)	13/20	65%
- Ocular and adnexial (clinical and subclinical)	19/20	95%
- Arthritis	11/20	55%
- Erythema nodosum-like lesions	7/20	35%
- Thrombophlebitis	3/20	15%
Ocular involvement: total (19/20 = 95%)		
- Conjunctivitis	7/20	35%
- Episcleritis	6/20	30%
- Uveitis	13/20	65%
- Retina (vasculitis/hyperfluorescence)	5/20	25%
- Ocular palsy	2/20	10%

Hemorheological Changes in Behçet ´s Disease – Follow-up of four months



Some laboratory observations, in Behçet's disease and normal controls.

	BEHÇET'S PATIENTS			NORMAL CONTROLS			
	MEAN	SD	n	MEAN	SD	n	p values
Red cell filt. index (no dimension)	18.62	14.33	20	13.94	2.22	16	NS
Plasma viscosity (cP)	1.26	0.11	20	1.20	0.04	22	<0.05
Red cell AChE (activity U/min/mgHb)	266.05	77.79	20	202.50	48.32	20	<0.01

Hiperviscosity in Behçet's Disease
Rev. Port. Hemorreol. 1 (2): 89-94, 1987

Eye (1988) 2, 278-282

Haematological Changes in Retinal Vasculitis

P.de SOUZA RAMALHO†, A. HORMIGO‡, R. MARTINS, C. SALDANHA†† and J. MARTINS-SILVAS††

Lisbon, Portugal

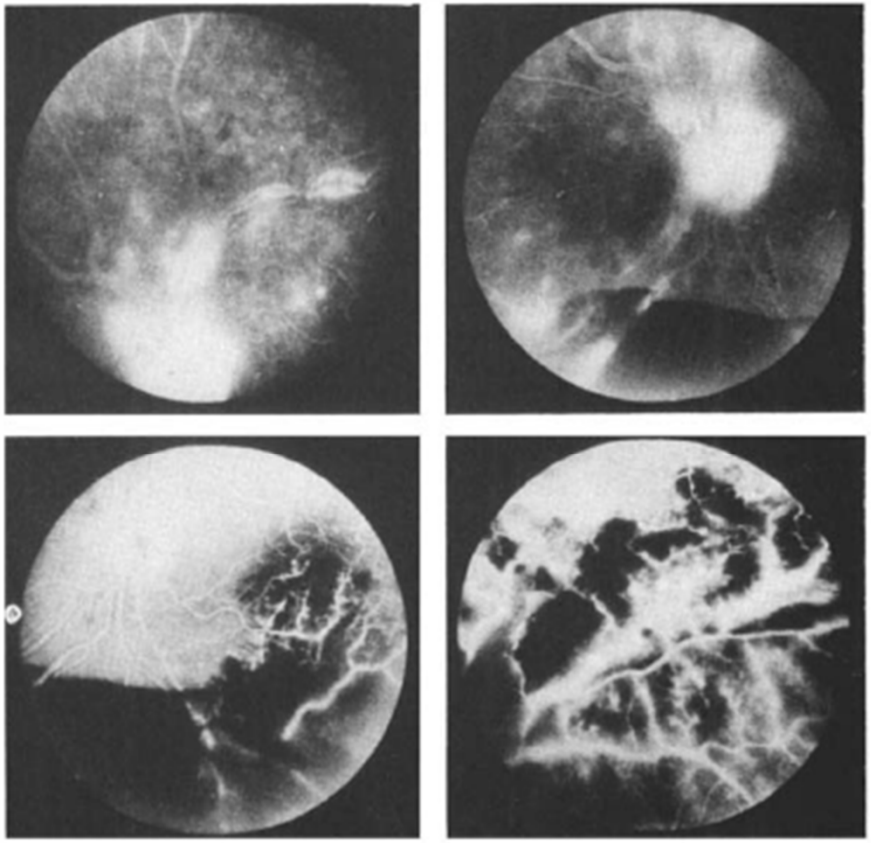


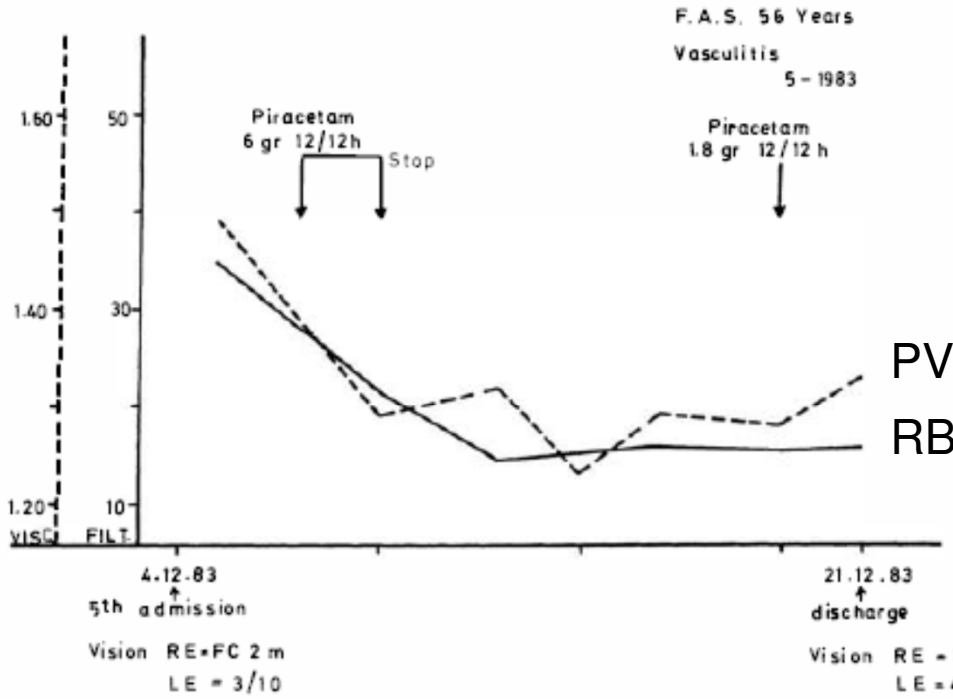
Fig. 1. *A composite of 4 photographs of left eye with fluorescein contrast showing leakage staining, vascular occlusions (phlebitis) and haemorrhages.*

Aim
Hemorheological parameters evaluation
during the course of treatement

Eye (1988) 2, 278-282

Haematological Changes in Retinal Vasculitis

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Lisbon, Portugal



PV

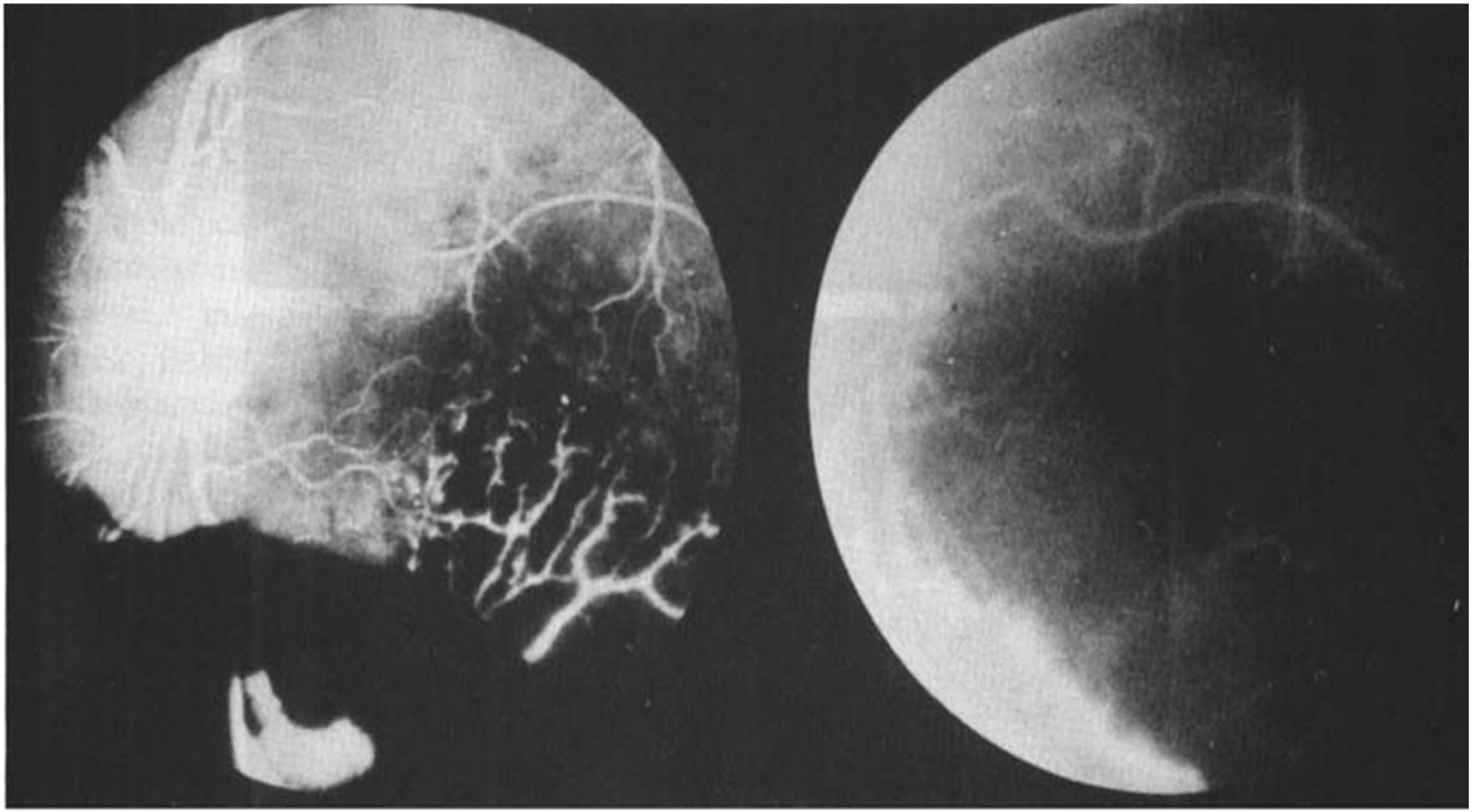
RBC filterability

Table I *Plasma viscosity and red cell filterability index improvement with treatment during 5th admission. Note the reduction of blood viscosity parameters a few days after treatment (red cell filterability index, continuous line – FILT; and plasma viscosity dotted line VISC)*

Eye (1988) 2, 278-282

Haematological Changes in Retinal Vasculitis

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Lisbon, Portugal



Before treatment

After treatment ,< PV improvement of fundus

Eye (1988) 2, 278-282

Haematological Changes in Retinal Vasculitis

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Lisbon, Portugal

Improvement and coincidence in hemorheological parameters and angiophraphy

Parameters	Before	After
Ht (%)	59.4	47
Hb(g/dL)	20.35	14.2
Fib mg/dL	800.0	369.0
PV cP (1.15-1.27)	1.52	1.23
EFI(13.9+/-2.22)	34.5	10.0

Rev. Port. Cardiol. 7(3):305-318, 1988

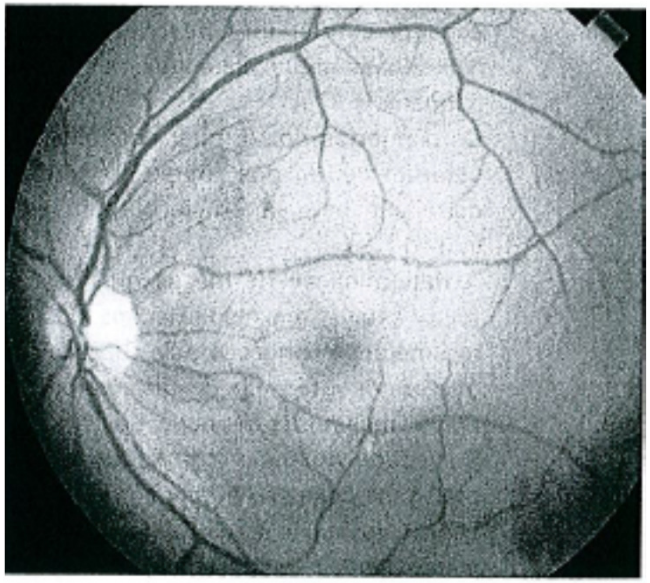
Hipertensão em fase acelerada.
Estudo Cardiológico, Oftalmológico e Hemorreológico [68]

J. Braz Nogueira *, António Freitas *, C. Moreira **, Carlota Saldanha **,
J. Martins e Silva **, P. Souza Ramalho ***, J. Nogueira da Costa *

Accelerated Phase of Arterial Hypertension



Hypertensive Retinophaty
Grade III
Cotton wool spot
Hemorhage
Retina edema

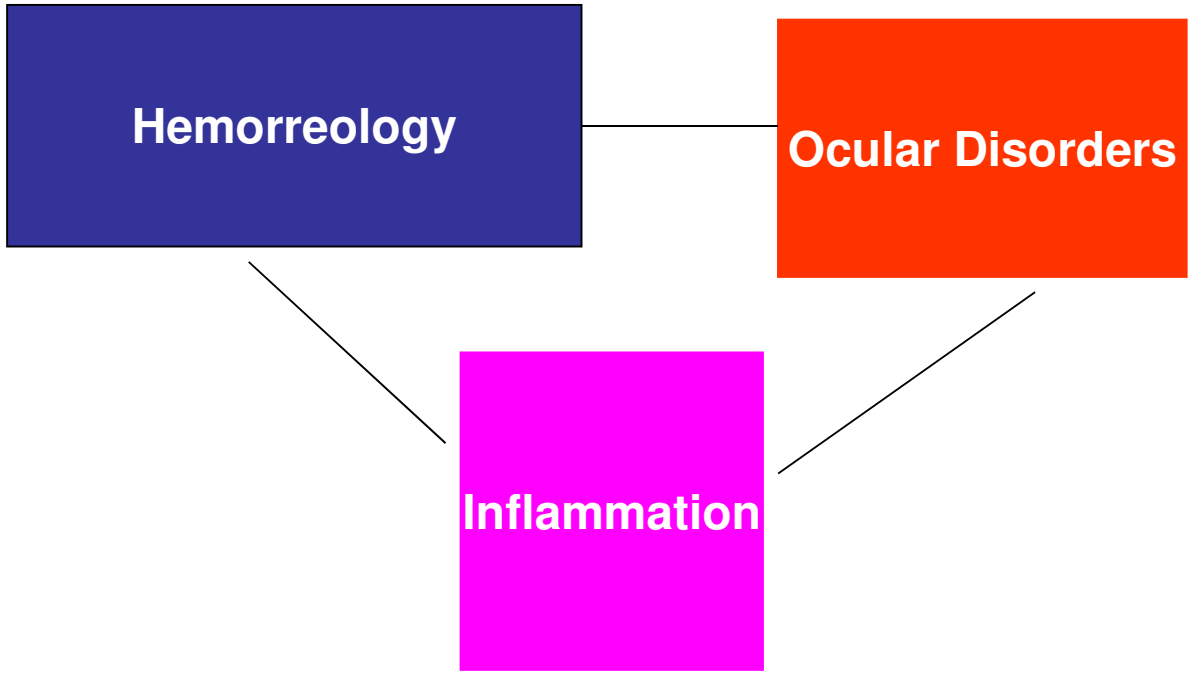


35 days after, normal AH
No retina edema ,
No hemorhage
Normal macular artery

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Thank You

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