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10th International Conference on

VA Cylar Demen Ia

February 22-23, 2018 | Paris, France

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Cerebral arteriovenous malformations (AVM) are hemodynamic lesions which must be studied as a determine the cerebral blood ow, average velocity, the Reynolds number to determine turbulent or laminar ows, to each one their risk of hemorrhage and their anatomical characteristics in this way make therapeutic decisions. In som venous hypertension or stulous nests, they generate a high degree of hyper ow, which can cause perilesional vascu AVMs nidus, areas of hypoperfusion that can generate dementia.

We did a retrospective study that included 639 patients with ruptured and un-ruptured AVMs. We propo classi cation score (1-4 points) for AVM rupture risk using three factors; feeding artery mean velocity (Vm), nidus s of venous drainage. We employed descriptive statistics and logistic regression analysis. We analyzed the di erent type each AVM (plexiform, mixto and stulous), angiopathy data were determined by recruitment in some lesions and the repercussion. e patient-s clinic was determined as well as the study of superior mental functions with a mini-mental

A total of 639 patients with cerebral AVMs, 388 (60%) had un-ruptured AVMs and 251 (40%) had ruptul Logistic regression analysis revealed a signi cant e ect of Vm (mean velocity), nidus size and venous drainage type in for the variability of rupture odds (P=0.0001, R2=0.437), for patients with AVMs. Based in the odds ratios, grades proposed classi cation were corresponded to low risk of hemorrhage, while grades 3 and 4 were associated with point OR=0.10795% CI; 0.061-0.188, 2 point OR=0.227 95%, CI; 0.153-0.338, 3 point OR=3.292 95%, CI; 2.325-4.6 OR=23.304 95%, CI; 11.077-49.027. We catalog di erent types of venous drainage, type 1, the anterograde (downstrow); type 2 the retrograde (upstream or reverse ow) and type 3, retrograde (upstream or reverse ow)+facial venous of the other sectors of the

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