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CLINICAL AND EPIDEMIOLOGICAL CHARACTERISTICS OF PATIENTS WITH DELAYED CEREBRAL ISCHEMIA (DCI) AFTER ANEURYSMAL SUBARACHNOID HEMORRHAGE (SAH) IN A MULTIETHNIC POPULATION

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## INTRODUCTION

SAH may be a devastating condition.

 DCI is defined as the occurrence of new focal deficits or a decrease in level of consciousness (LOC) that lasts for at least one hour.

- 30% of SAH patients develop DCI, leading to a worse prognosis.
- The clinical and epidemiological profile and treatment response of DCI patients are not well described in literature.

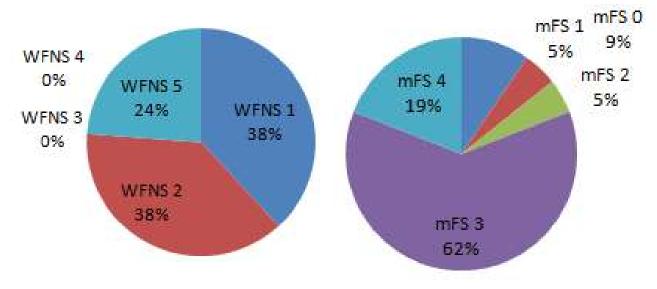
### MATERIAL AND METHODS:

•We evaluated consecutive patients admitted to a high volume center in Brazil who developed DCI after SAH in a 2 year period (from June 2016 to June 2018).

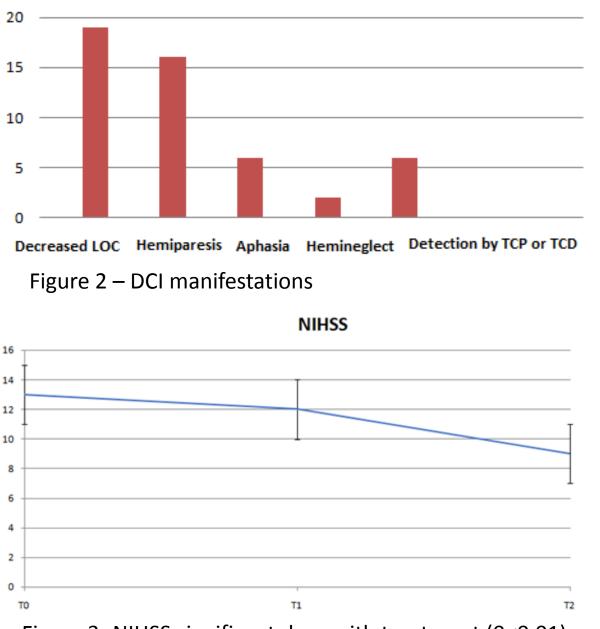
# •Therapy was maintained for 86.89 hours (+/-80.33). ) and vasospasm resolved in 17.48 (+/- 5) days after the bleeding.

•The mean time of ICU stay was 22 (+/- 9.31) days.

•A total of 44.4% and 62.5% of the patients had a modified Rankin scale <=2 at discharge and 3 months, respectively.







### **RESULTS**:

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•21 patients developed 27 episodes of DCI

•A total of 85.7% of the patients were females.

- •Their mean age was 50.41 years old (+/- 12.52).
- •. The most common risk factors were hypertension (61.9%) and cigarette smoking (42.8%).

•76% had low clinical grade SAH – World Federation Scale of Neurological Surgeons (WFNS)1-3 but 81% had high grade radiological SAH – Modified Fisher Scale (mFS) 3-4 (figure 1).
•More than half of the patients (51,8%) had aneurysms in the anterior circulation and the prevalence of multiple aneurysms was 23.8%

'DCI happened within 11.59 (+/-3.4) days after the bleeding
DCI main manifestations were decreased LOC (70.4%), followed by hemiparesis (59.3%). In 22.2% it was only detected by transcranial Doppler (TCD) or CT perfusion (TCP) (figure 2)
12 DCI episodes were treated with norepinephrine and 15

•NIHSS significantly dropped post treatment (13 to 9, p<0.01) (figure 3)

### Figure 3- NIHSS significant drop with treatment (0<0.01)

#### CONCLUSION:

•DCI symptoms responded to therapy in most of our patients and even those with high grade SAH can have a good functional outcome.

•Knowing the clinical profile of patients with DCI is of utmost importance for the design of new clinical trials