Hemorragia Sub Aracnoidea - PAASH $_{Raul\ RC}$

Prognosis on Admission of Aneurysmal Subarachnoid Hemorrhage (PAASH)

PAASH scale is based on the Glasgow Comma Scale (GCS) assigned at the time of patient admission.

PAASH	GCS
I	15
II	11-14
III	8-10
IV	4-7
V	3

Clinical table by PAASH

	paash.1	paash.2	paash.3	paash.4	paash.5
Total	69	37	13	7	10
Edad.promedio	51.19	56.92	53.62	48	53.4
Edad.DE	14.53	14.23	8.81	15.52	12.75
Masculino	0.38	0.3	0.15	0.14	0.5
Femenino	0.62	0.7	0.85	0.86	0.5
Antecedente.HAS	0.06	0.08	0.08	0.14	0.1
HAS	0.39	0.51	0.69	0.71	0.5
Comorbilidades	0.41	0.54	0.62	0.71	0.6
Embarazo	0.03	0.03	0	0	0
Hx.Familiar	0.06	0.03	0	0	0.1
Multiples.aneurismas	0.14	0.16	0.08	0.29	0.1

Aneurysm location: age and gender difference in aneurysm distribution

X	ACA	ACM	ACP	basilar	carotida	otra
1	12	10	4	2	32	1
2	5	16	0	2	9	0
3	4	3	1	0	3	0
4	1	2	0	1	2	0
5	0	1	1	0	5	2

Percentage of patients with poor outcome

The percentage was calculated based on the PAASH score.

Glassgow Outcome Scale (GOS)

GOS 1: Death

GOS 2: Persistent vegetative state

GOS 3: Severe disaability

GOS 4: Moderate disability

GOS 5: Good recovery

Outcome based on GOS

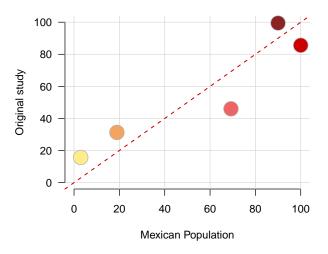
Poor: GOS 1-3 Fair: GOS 4-5

There is a significant difference in the percentage of poor outcome between the original study and our cohort for PAASH-I. In our hospital patients with PAASH I have better outcome.

```
## [1] "PAASH-1, X-squared: 6.65, p-val: 0.01"
## [1] "PAASH-2, X-squared: 1.71, p-val: 0.19"
## [1] "PAASH-3, X-squared: 1.4, p-val: 0.24"
## [1] "PAASH-4, X-squared: 0.27, p-val: 0.6"
## [1] "PAASH-5, X-squared: 1.69, p-val: 0.19"
```

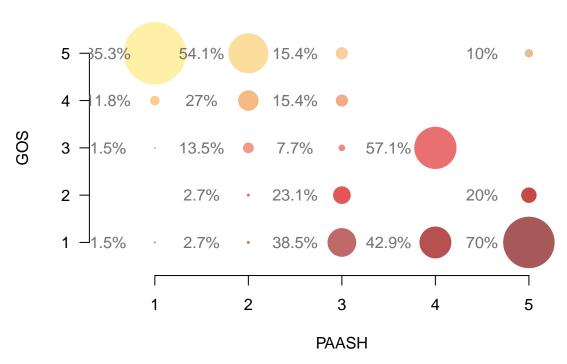
% per PAAHS

Percentage of poor outcome



PAASH - GOS relation by cohort

Distribution by PAASH



For each PAASH, no significant differences where found for sex or age

```
##
##
    Kruskal-Wallis rank sum test
##
## data: X by Group
## Kruskal-Wallis chi-squared = 4.8399, df = 4, p-value = 0.3041
##
##
   Pairwise comparisons using Wilcoxon rank sum test
##
##
## data: X and Group
##
##
          2
               3
                    4
     1
## 2 1.00 -
## 3 1.00 1.00 -
## 4 1.00 1.00 1.00 -
## 5 1.00 1.00 0.87 1.00
##
## P value adjustment method: bonferroni
##
     Tukey multiple comparisons of means
       95% family-wise confidence level
##
## Fit: aov(formula = X ~ Group)
##
## $Group
##
              diff
                           lwr
                                     upr
                                             p adj
## 2-1 -0.07034976 -0.3353710 0.1946715 0.9480840
```

```
## 3-1 -0.21380090 -0.6064980 0.1788962 0.5603745
## 4-1 -0.22478992 -0.7397440 0.2901641 0.7469826
## 5-1 0.13235294 -0.3070209 0.5717267 0.9197933
## 3-2 -0.14345114 -0.5617183 0.2748160 0.8771262
## 4-2 -0.15444015 -0.6891495 0.3802692 0.9304598
## 5-2 0.20270270 -0.2596670 0.6650724 0.7439722
## 4-3 -0.01098901 -0.6191739 0.5971959 0.9999986
## 5-3 0.34615385 -0.1995205 0.8918282 0.4044233
## 5-4 0.35714286 -0.2821749 0.9964606 0.5350589
##
##
   Kruskal-Wallis rank sum test
##
## data: X by Group
## Kruskal-Wallis chi-squared = 3.609, df = 4, p-value = 0.4615
##
##
##
  Pairwise comparisons using Wilcoxon rank sum test
## data: X and Group
##
##
               3
     1
          2
                    4
## 2 0.94 -
## 3 1.00 1.00 -
## 4 1.00 1.00 1.00 -
## 5 1.00 1.00 1.00 1.00
##
## P value adjustment method: bonferroni
     Tukey multiple comparisons of means
##
##
      95% family-wise confidence level
##
## Fit: aov(formula = X ~ Group)
##
## $Group
##
             diff
                         lwr
                                   upr
## 2-1 5.8306836 -2.076961 13.738329 0.2530821
## 3-1 2.5271493 -9.190060 14.244359 0.9753702
## 4-1 -3.0882353 -18.453321 12.276850 0.9810133
## 5-1 2.3117647 -10.798174 15.421704 0.9883681
## 3-2 -3.3035343 -15.783698 9.176630 0.9485942
## 4-2 -8.9189189 -24.873459 7.035621 0.5343655
## 5-2 -3.5189189 -17.315005 10.277167 0.9548918
## 4-3 -5.6153846 -23.762271 12.531502 0.9122232
## 5-3 -0.2153846 -16.497097 16.066327 0.9999996
## 5-4 5.4000000 -13.675822 24.475822 0.9350929
```