SAH READMISSIONS TO NCCU

Are they preventable ?

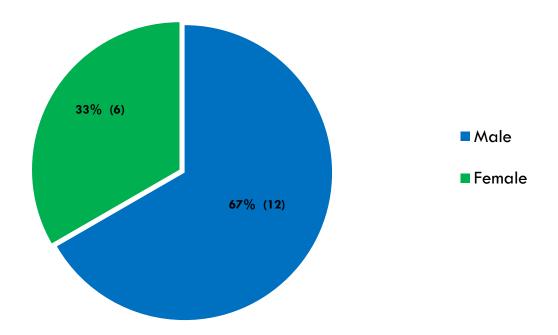
João Amaral Rebecca Gorf Critical Care Outreach Team - NHNN

2015

- Total admissions to NCCU =862
- \Box Total SAH admitted to NCCU= 104 (93e) (12.0%)
- Total SAH readmissions = 18 (19.3%)
- Total SAH readmissions in 48hrs = 13 (72.2%)
- Average patient's age 58.2yo [32-87]
- 87% (81) patients seen by CCOT

Demographics

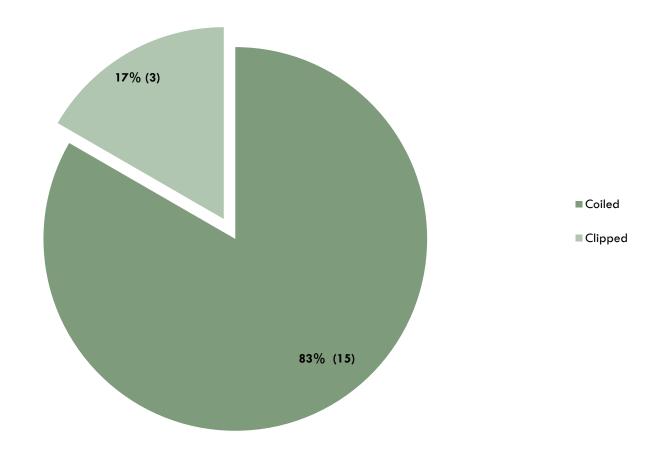
Distribution by gender (readmissions to NCCU)



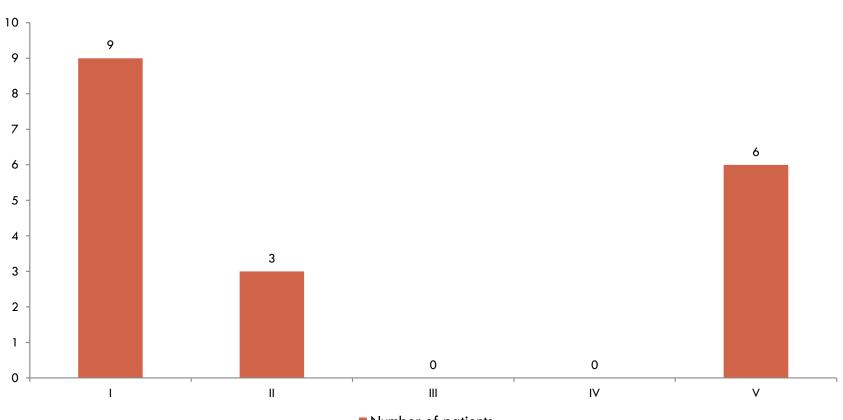
Aneurysm location



Coiled Vs Clipped



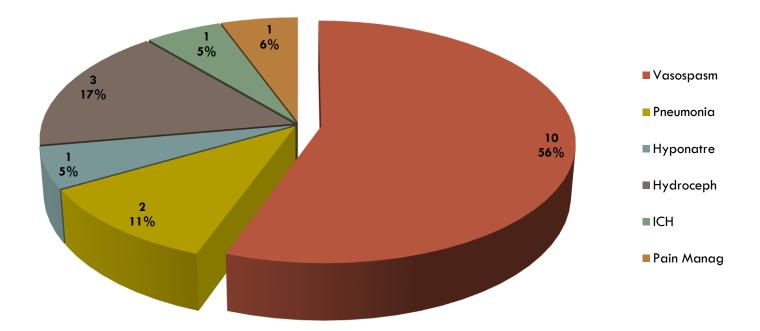
Distribution by Grade (WFNS)



Number of patients

Clinical Causes for readmission

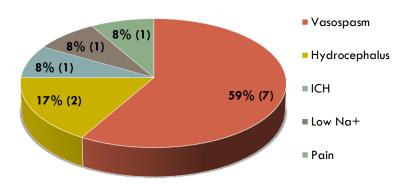
n=18



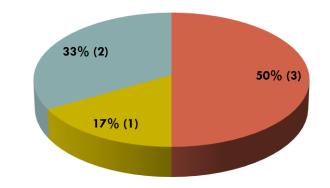
Causes for readmission

WFNS Grade I, II

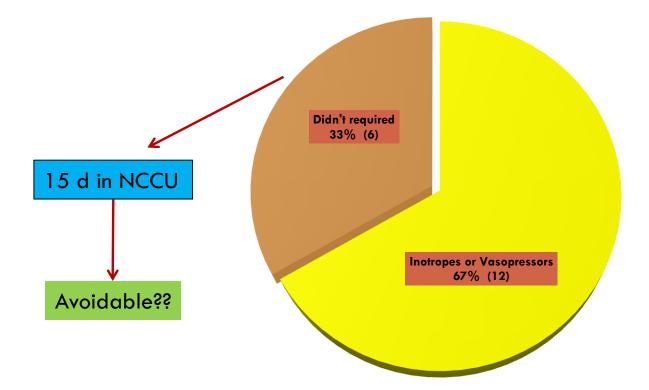
WFNS Grade V



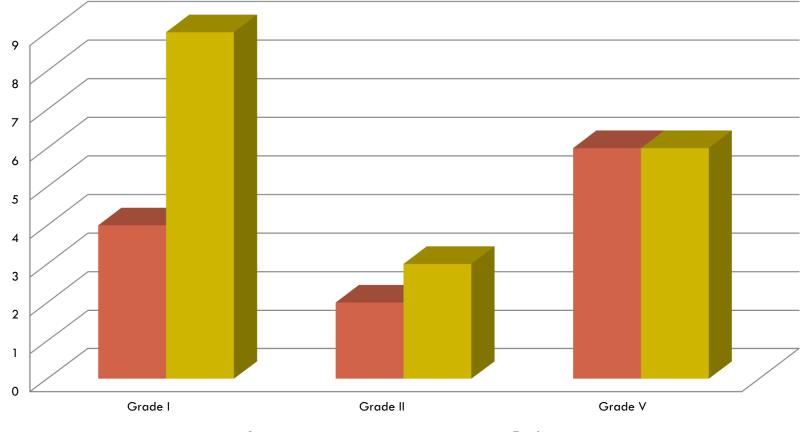
Vasospasm Hydrocephalus Pneumonia



Inotropes and Vasopressors required after readmission to NCCU

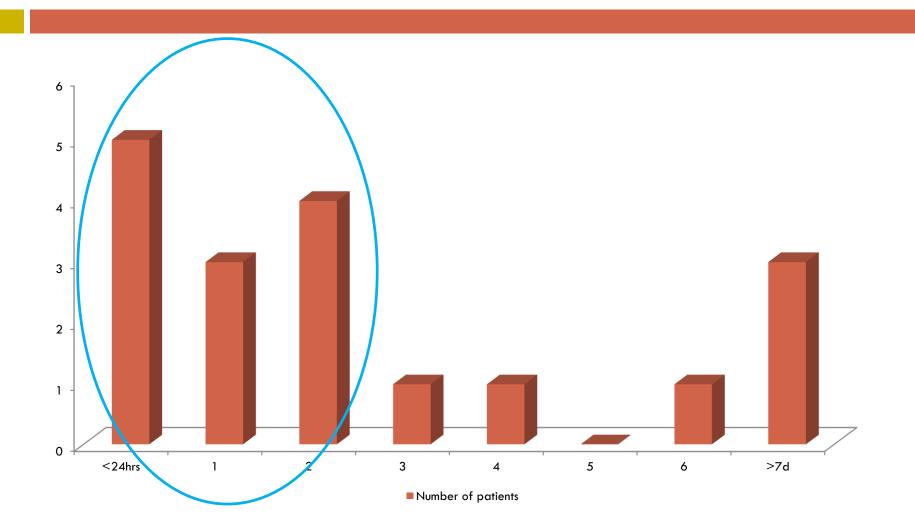


SAH grade Vs vasopressors or inotropes required

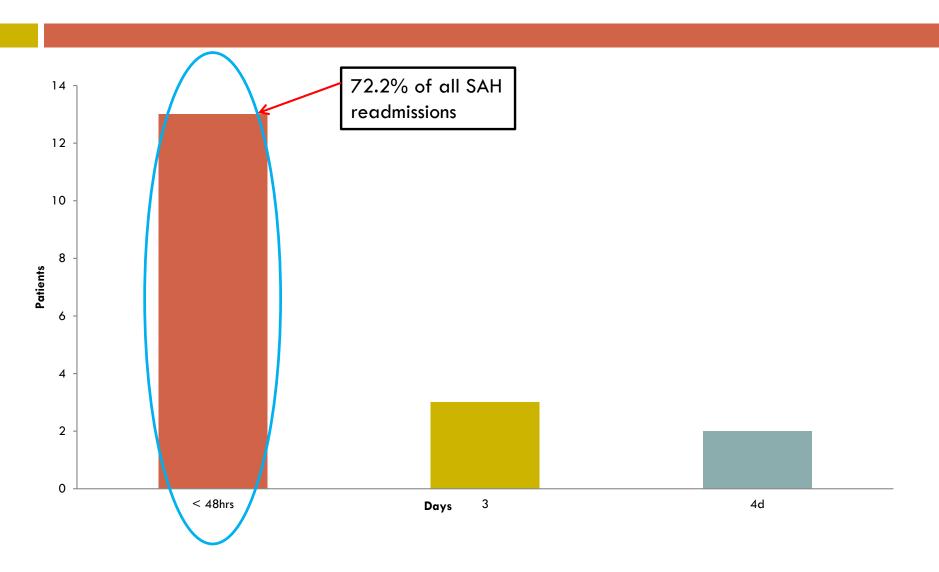


Patients requiring vasopressors or inotropes
Total patients

Length of 1st Stay in NCCU



Ward LOS prior readmission to NCCU



Ward LOS prior readmission to NCCU

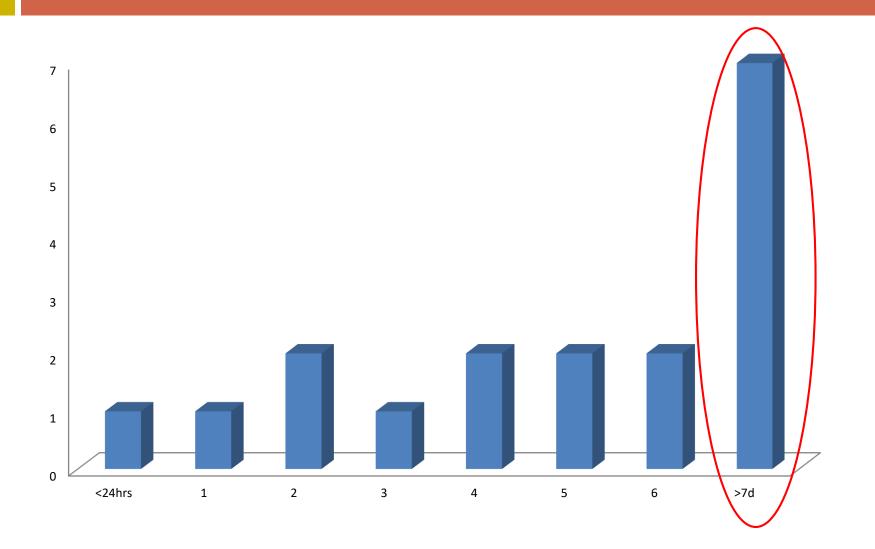
🗆 Grade I, II

Average 1.41d [<24h-4d]

🗆 Grade V

Average 1.1d [< 24h-4d]

LOS in NCCU after readmission



LOS in NCCU after readmission

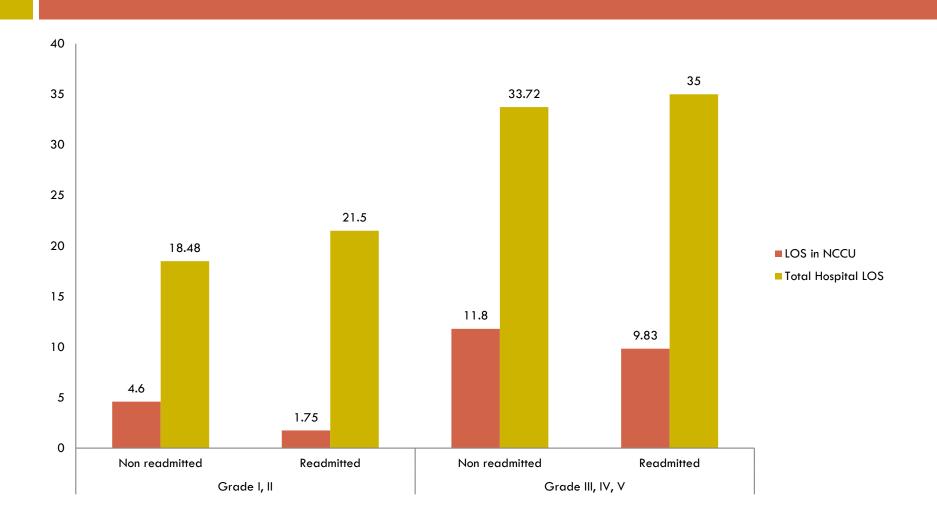
🗆 Grade I, II

Total days= 67 days Average 5.58d [<24h-12d]

🗆 Grade V

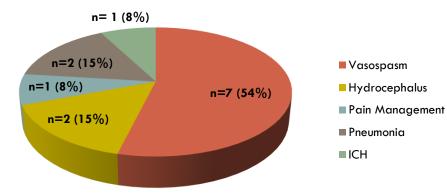
Total days= 54 days Average 9.0d [2-16d]

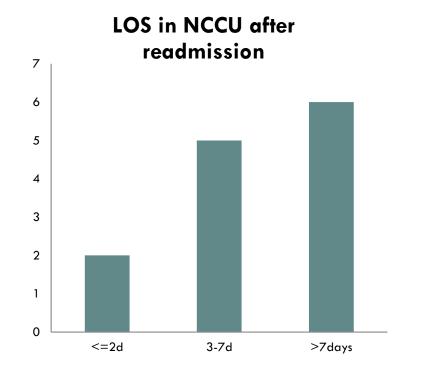
Non-readmitted vs readmitted (LOS)



Unplanned readmissions within 48 hrs (2015)



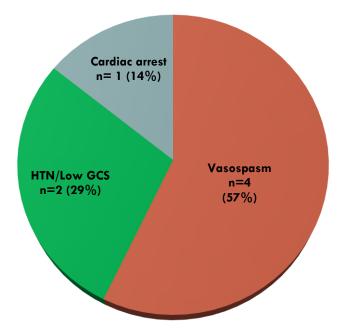




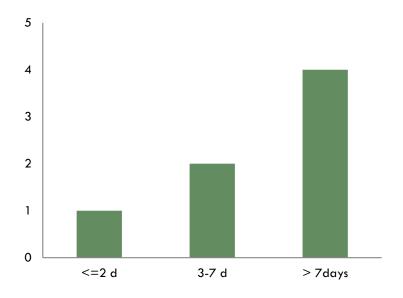
Unplanned readmissions within 48 hrs (2016)

> n=7(41%)

Clinical Causes for Readmission



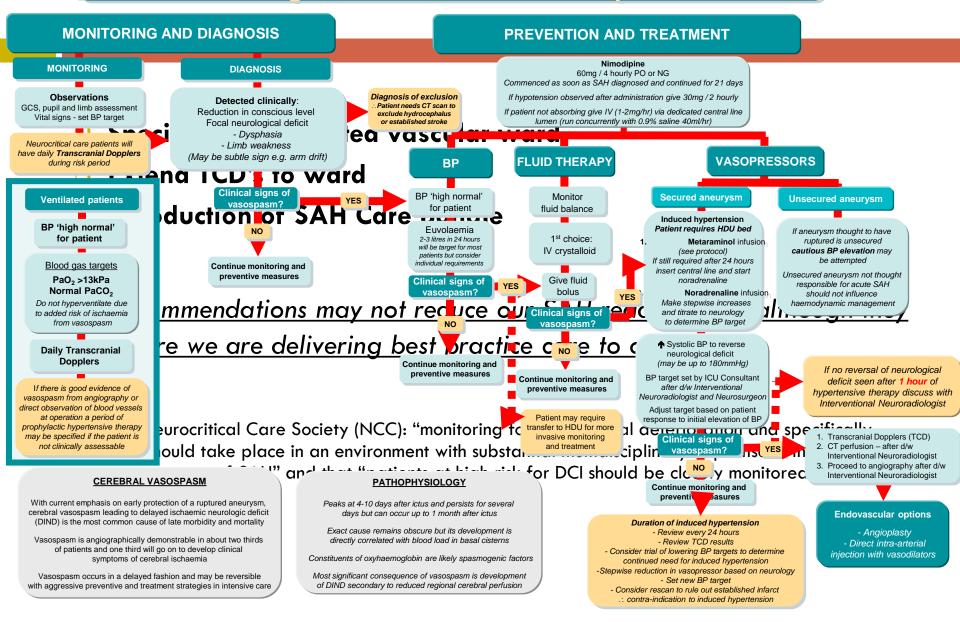
LOS in NCCU after readmission





Subarachnoid Haemorrhage (SAH) Management of Cerebral Vasospasm

University College NHS London Hospitals NHS Foundation Trust



Summary

- SAH patients are unpredictable
- Preventing SAH readmissions may be impossible
- Specially with regards to DCI and Vasospasm
- Non-viability to keep SAHs in HDU > 14 days

Data presented was provided by Case Mix Programme (CMP) database-ICNARC and collected from electronic (ICIP) and paper patient's notes including nursing and medical records.

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Thank you