

Hunt-Hess		20% ~ 30% ⁶⁻⁷	表 2	CT	Fisher
Hunt-Hess	aSAH			CT	
SaSAH			1 mm		<
aSAH			≥ 1 mm		
	0 ~				
	aSAH	SaSAH			
			DSA		
	Hunt-Hess		DSA ⁹	DSA ¹⁰	2 ~ 4
			DSA		CT
	aSAH		angiography	CTA	CT
				²	< 3 mm
			3D-DSA	DSA	SaSAH
	⁸		CTA	CTA	
共识建议					
1		Hunt-Hess		CTA	DSA
WFNS			MR	MRA	SaSAH
			¹¹		
2	Hunt-Hess ≥	NICU		SaSAH	
3					NICU
3 诊断				SaSAH	
SaSAH	aSAH		共识建议		
			1	SAH	CT
3.1			2		SAH
aSAH		97%	DSA	CTA	
30%			3		2 ~ 4
	SaSAH		DSA		
			4 动脉瘤处理及预防再出血		
			4.1		
3.2					24 h
SaSAH		CT	SaSAH	4.0% ~ 13.6%	
	100%	5 ~ 7 d	80%		⁸
		aSAH			
SaSAH		CT	aSAH		CVS
			SaSAH		
	Fisher	2	CVS		
	CVS				
	SaSAH		DSA		
		85%	SaSAH		
DSA			3D-		

aSAH
CVS

共识建议
1
140 ~ 160 mmHg

共识建议
1
2
~
3
4.2
12
>72 h
2 h
共识建议
72 h
4.3
aSAH
14
ICP
CVS
2

> 70
SaSAH
CVS
>30 ml
ICP
11
4.4
aSAH
10%
20%
15
cerebral blood flow CBF
CVS
16
aSAH
aSAH

Hunt-Hess
11
4.4
aSAH
7%
aSAH
ICP
16
aSAH
aSAH

15
ICP

16
aSAH
aSAH

13
European stroke organization 2013
16
aSAH
1
17

1
10% ~20%
SaSAH

共识建议
1 SaSAH
2
3 ~ 6
3
5 SaSAH 的监护管理
5.1
5.1.1 1

20%
2

20° ~ 30°

2

3

35 mmHg

PaO₂
CO₂

PaCO₂ 30 ~

5.3.1

Hess

1 GCS < 9

Hunt-

2

5

4

3

aSAH

4

6

CVS

7

5.3.2

22%

aSAH

¹⁸

5.1.2

SaSAH

Hunt-Hess

WFNS

GCS

Fisher

SaSAH

CTA DSA

ICP

5.1.3

Hunt-Hess

WFNS

GCS

CVS

SaSAH

SaSAH

CT

5.2

SaSAH

ICP

pH

5.2.1

TCD

TCD

5.4

41% ~ 72%

aSAH

¹

24 h

ICP

CVS

5.2.2

ICP

SaSAH

ICP

6

"ICP"

"

5.2.3

SaSAH

ICU

Bis

5.2.4

ICU

5.3

SaSAH

SaSAH

SaSAH

PaO₂

PaCO₂

2 CVS

3

ICP CVS

32 ~ 35

	DCI			4	CVS		
		TCD		DSA			
		55-57					
7.3	CVS DCI			8	aSAH 相关脑积水		
	DCI				aSAH		aSAH
7.3.1							
	DCI				3 d	3 ~ 14 d	14 d
					15% ~ 48%	aSAH	
						8.9 ~ 48.0% ⁶²⁻⁶³	
			SaSAH			ICP	
				EVD	EVD		
	58			3		EVD	
	3H			1	EVD		
					64-65		
7.3.2		CVS	SaSAH				
		CVS				ICP	CT
	Rho		59				
						5 ~ 10 ml/h	
CVS 2012	ASA/AHA		aSAH				
	A		SaSAH		5.7% ~ 15.0%	EVD	66-67
			Rho		EVD		
	Rho			CVS	68		
	CVS						
	CBF						
	60-61		CVS				
7.3.3				9	其他并发症的治疗		
					SAH		
	CVS			2		CVS	
					aSAH		
					69-70	Hunt-Hess	
				/			
共识建议				10	总结		
1			DCI		SaSAH		
						ICP	
2			CVS				
					SaSAH		
3			DCI				

SaSAH

参考文献

2004 3 12 2457-2458.

- 55 Jost SC Diringner MN Zazulia AR et al. Effect of normal saline bolus on cerebral blood flow in regions with low baseline flow in patients with vasospasm following subarachnoid hemorrhage J . J Neurosurg 2005 103 1 25-30.
- 56 Dankbaar JW de Rooij NK Velthuis BK et al. Diagnosing delayed cerebral ischemia with different CT modalities in patients with subarachnoid hemorrhage with clinical deterioration J . Stroke 2009 40 11 3493-3498.
- 57 van der Schaaf I Wermer MJ van der Graaf Y et al. CT after subarachnoid hemorrhage relation of cerebral perfusion to delayed cerebral ischemia J . Neurology 2006 66 10 1533-1538.
- 58 Ray WZ Moran CJ Derdeyn CP et al. Near-complete resolution of angiographic cerebral vasospasm after extreme elevation of mean arterial pressure case report J . Surg Neurol 2009 72 4 347-353.
- 59 J . 2008 88 31 2161-2165.
- 60 鑑 .
-
- J . 2011 27 11 1117-1122.
- 61 Zhao J Zhou D Guo J et al. Efficacy and safety of fasudc of ra