

The College of Emergency Medicine

Patron: HRH The Princess Royal

7-9 Breems Buildings
London
EC4A 1DT

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS

Coma with a blown pupil

Patients Name: Jane Smith
Patients Age / DOB: 57

Major Problem	Medical Coma with a blown pupil	NTS Situational Awareness Organisation and planning Leadership Communication
Learning Goal	Coordination of an anaesthetist / radiologist / neurosurgeon for a comatose patient	
Narrative Description	<p>A 38 year old woman presented earlier on in the day with an acute severe headache. She was initially GCS 15 and assessed as requiring a CT scan. She has been waiting for this, but has become unresponsive in the last 20 minutes. The candidate is expected to orchestrate the anaesthetist, neurosurgeon and radiologist so that the intubated patient arrives at the CT scanner with a neurosurgeon present in the scanner.</p> <p>This is essentially a communication skills and leadership scenario. The scenario ends when the ED Doctor has organised the three inpatient specialists with a clear plan.</p> <p>PMHx None NKDA Social alcohol, nil else</p>	
Staffing	Faculty Control Room: 1 x Sim man controls 1 x Pt voice / nurse informer Faculty Role Players: 1 x Nurse	Candidates ED Doctor ED Senior nurse Anaesthetist
Case Briefing	To All Candidates This patient is 38 years old and presented two hours ago with an acute severe	To Role Players (By voice) Radiologist / Neurosurgeon

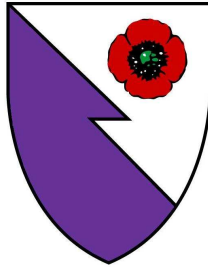
Excellence in Emergency Care

1

Incorporated by Royal Charter, 2008 • Registered Charity number 1122689

<http://creativecommons.org/licenses/by-nc-nd/3.0/>





The College of Emergency Medicine

Patron: HRH The Princess Royal

**7-9 Breams Buildings
London
EC4A 1DT**

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS

Coma with a blown pupil

	headache. She was waiting for a CT scan. She has become unresponsive. You work in a hospital where ED juniors do not routinely perform RSI. The hospital has a neurosurgical unit.	
Manikin preparation	Female patient lying flat on the trolley. No monitoring attached but all available including defibrillator. Cannulated. Left pupil is fixed and dilated Right pupil is small	
Room set up	A&E resus Experienced nurse available to help	
Simulator operation	Patient has a static bradycardia and high blood pressure	
Props needed	Defibrillator, Anaesthetic Trolley Anaesthetic Drugs Mannitol or Hypertonic Saline Fluids	

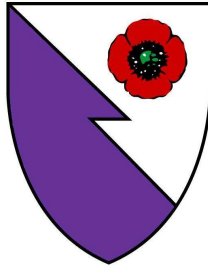
Excellence in Emergency Care

2

Incorporated by Royal Charter, 2008 • Registered Charity number 1122689

<http://creativecommons.org/licenses/by-nc-nd/3.0/>





The College of Emergency Medicine

Patron: HRH The Princess Royal

7-9 Breams Buildings
London
EC4A 1DT

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS

Observations:

Initial

HR	40
O2 sats	96% on O2
BP	190/110
Temp	37.0
RR	12
GCS	E=4 V=5 M=6 3/15

Coma with a blown pupil

Later (after intubation)

HR	45
O2 sats	96% on O2
BP	130/95
Temp	37.0
RR	12
GCS	E=4 V=5 M=6 3/15

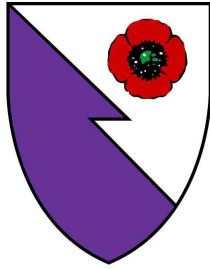
Excellence in Emergency Care

3

Incorporated by Royal Charter, 2008 • Registered Charity number 1122689

<http://creativecommons.org/licenses/by-nc-nd/3.0/>





The College of Emergency Medicine

Patron: HRH The Princess Royal

**7-9 Breams Buildings
London
EC4A 1DT**

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS Nurse Role

Coma with a blown pupil

Scenario

A sudden onset of coma in a 38 year old patient with a headache

Underlying diagnosis

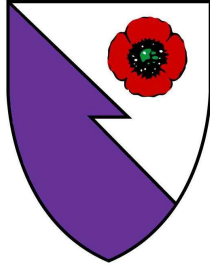
Intra-cerebral haematoma and supratentorial coning

Instructions

You are an experienced nurse who can contact anyone and find anything in your department. You are also happy assisting at a rapid sequence intubation. You are able to make appropriate suggestions including getting help if needed.

Available is an ECG when you are asked to take one.





The College of Emergency Medicine

Patron: HRH The Princess Royal

**7-9 Breams Buildings
London
EC4A 1DT**

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS Patient Role

Coma with a blown pupil

Scenario

A sudden onset of coma in a 38 year old patient with a headache

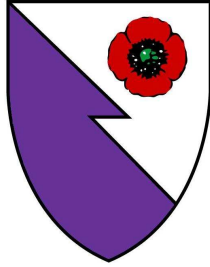
Underlying diagnosis

Intra-cerebral haematoma and supratentorial coning

Patient Instructions

You are unconscious and do not respond to any stimuli.





The College of Emergency Medicine

Patron: HRH The Princess Royal

7-9 Breams Buildings
London
EC4A 1DT

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS Radiologist Role (by phone)

You are waiting for the patient to come to the CT scanner. If you are not told promptly, you phone resus to find out what is going on. When you are told that the patient is unconscious, you suggest that the patient is intubated before coming to the CT scanner. You ask the ED doctor to tell you when they are ready to leave the resuscitation room.

Coma with a blown pupil

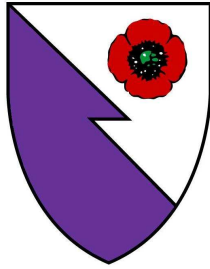
Excellence in Emergency Care

6

Incorporated by Royal Charter, 2008 • Registered Charity number 1122689

<http://creativecommons.org/licenses/by-nc-nd/3.0/>





The College of Emergency Medicine

Patron: HRH The Princess Royal

**7-9 Breams Buildings
London
EC4A 1DT**

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS

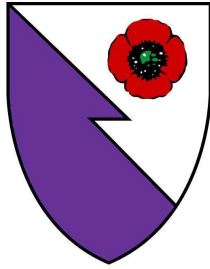
Neurosurgeon Role

(By phone)

When you are told about this patient, you advise that they are given mannitol 1g/kg. You will come down to the CT scanner to make a decision to take this person to theatre or not.

Coma with a blown pupil





The College of Emergency Medicine

Patron: HRH The Princess Royal

7-9 Breems Buildings
London
EC4A 1DT

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS

Coma with a blown pupil

Blood Results: Jane Smith **Age 38 year old female**

Hb	9.2	Na	134
WCC	12	K	3.8
Plt	187	Ur	10
MCV	95	Cr	87

ABG On Oxygen

pH	7.36
pO ₂	18.3
pCO ₂	4.8
HCO ₃	22
BE	2
Lactate	1.8

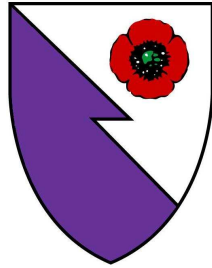
Excellence in Emergency Care

8

Incorporated by Royal Charter, 2008 • Registered Charity number 1122689

<http://creativecommons.org/licenses/by-nc-nd/3.0/>





The College of Emergency Medicine

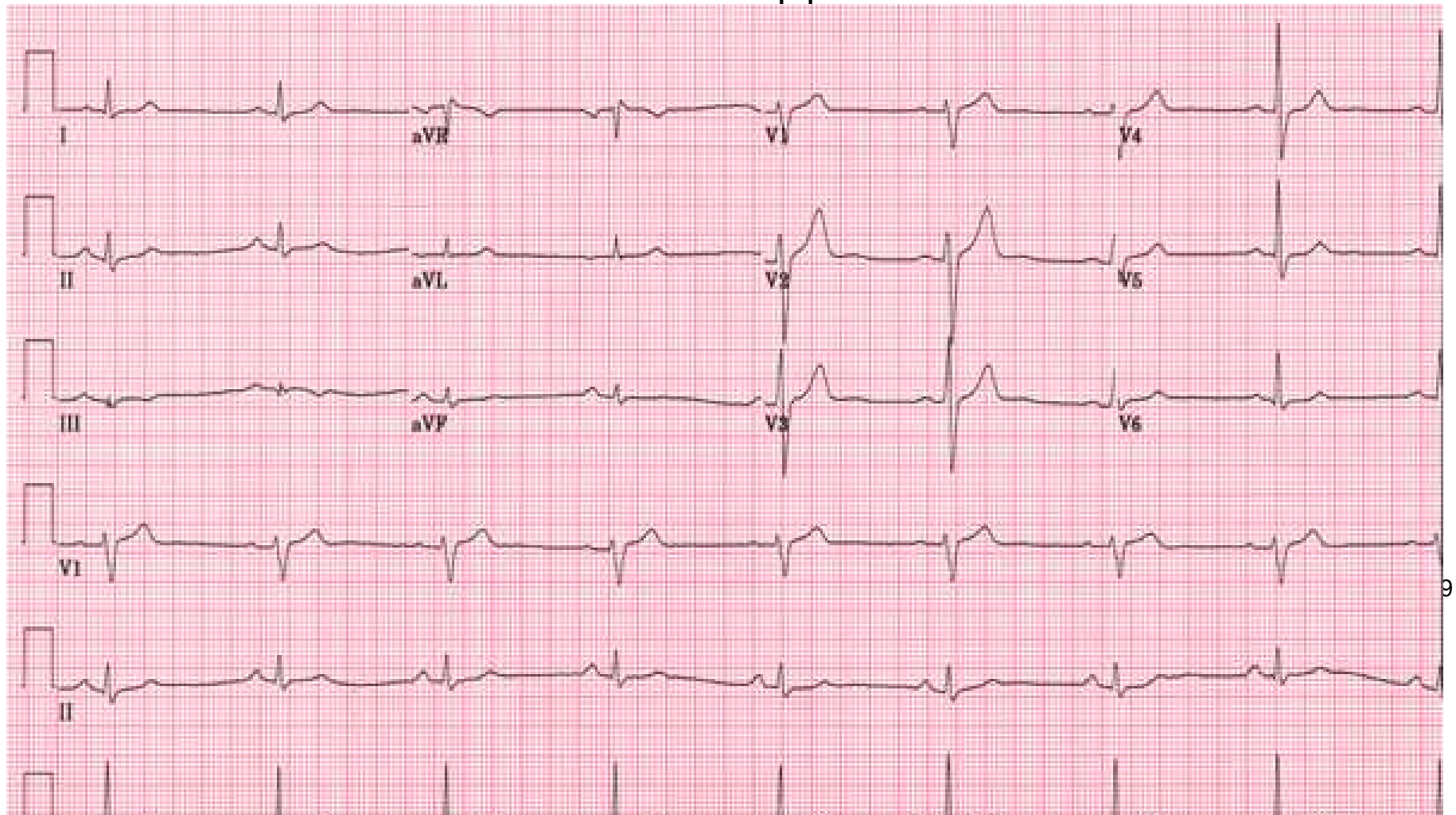
Patron: HRH The Princess Royal

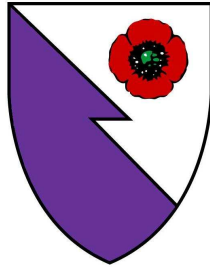
7-9 Breams Buildings
London
EC4A 1DT

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS

Coma with blown pupil





The College of Emergency Medicine

Patron: HRH The Princess Royal

7-9 Breams Buildings
London
EC4A 1DT

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.collemergencymed.ac.uk

ACCS

Coma with blown pupil

Excellence in Emergency Care

Incorporated by Royal Charter, 2008 • Registered Charity number 1122689

<http://creativecommons.org/licenses/by-nc-nd/3.0/>

