

### A systematic approach to the interpretation of: computed tomography of the head

"Blood Can Be Very Bad"

#### BLOOD

# Timing



Immediate Acute blood appears hyperdense 1-2 weeks Subacute blood appears isodense

>2 weeks **Chronic blood appears hypodense** 

#### Locations



CAN

### Cisterns

Evaluating the cisterns is important for the identification of increased intracranial pressures (assessed by effacement of spaces) and presence of subarachnoid blood.





# Brain

Evaluate the brain parenchyma, including an assessment of symmetry of the gyri/sulci pattern, midline shift, and a clear gray-white differentiation.



Stroke Asymmetry, loss of gray-white differentiation

Mass **Causing midline shift** 

VERY

## Ventricles

Evaluate the ventricles for dilation or compression. Compare to cisterns, large ventricles with normal/compressed cisterns and sulcal spaces suggests obstruction.







BE

# Bone

BAD

B

Switch to bone windows to evaluate for fracture. Surrogates include pneumocephalus, and abnormal aeration of mastoid air cells and sinuses.



