1. \*\*\*Shunt-dependent hydrocephalus:

[ ]  Yes

[ ]  No

[ ]  ETV

1. \*\*\*Date of shunt insertion:

## General Instructions

This CRF Module is recommended to collect information on shunt dependency for subarachnoid hemorrhage (SAH) studies.

The elements on this CRF are classified as Exploratory.

“\*\*\*Element is classified as Exploratory

Specific Instructions

* Shunt dependent hydrocephalus is defined as clinical symptoms of hydrocephalus (decreased mental status, axial rigidity, and incontinence) with radiographic evidence of enlarged ventricles or a high opening pressure on repeated lumbar punctures requiring the insertion of a VP shunt for CSF diversion. Endoscopic third ventriculostomy (ETV) is also recorded, if used as alternative for shunt insertion.
* Date of shunt insertion: The earliest day the physician/APN/PA documented shunt dependency. Of note, placement of external ventricular device/lumbar drain is not considered. Third ventriculostomy is recorded.

Reference

Rincon F, Gordon E, Starke RM, Buitrago MM, Fernandez A, Schmidt JM, Claassen J, Wartenberg KE, Frontera J, Seder DB, Palestrant D, Connolly ES, Lee K, Mayer SA, Badjatia N. Predictors of long-term shunt-dependent hydrocephalus after aneurysmal subarachnoid hemorrhage. Clinical article. J Neurosurg. 2010;113(4):774–780.