

# Radionuclide shunt study

Radionuclide shunt studies have been used for decades to evaluate intracranial shunt patency (SP); however, the methodology is neither standardized nor well validated.

The radionuclide SP study is valuable for evaluation of VA SP. Results can be interpreted using a single variable ( $T_{1/2}$ ).  $T_{1/2}$  of 3.9 to 8 minutes indicates a patent shunt;  $T_{1/2}$  less than 3.9 minutes is consistent with overdrainage.  $T_{1/2}$  of  $>8$  requires further evaluation to differentiate between obstruction and overdrainage/underdrainage <sup>1)</sup>.

<sup>1)</sup>

Gok B, Batra S, Eslamy H, Rigamonti D, Ziessman H. Radionuclide shunt patency study for suspected ventriculoatrial shunt malfunction. Clin Nucl Med. 2013 Jul;38(7):527-33. doi: 10.1097/RLU.0b013e31828da385. PubMed PMID: 23640223.

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