

Thirty subjects with **idiopathic normal pressure hydrocephalus** (iNPH) underwent both **CBF SPECT** and MRI. After normalization, voxel-wise two-sample t tests between patients and 11 normal controls were conducted to compare the regional alteration in the gray matter density and **regional cerebral blood flow** (rCBF).

The rCBF reduction and the gray matter decrease were seen in almost similar regions surrounding **Sylvian fissure**, the left parietotemporal region and **frontal lobes**, whereas they did not find rCBF increase at the top of the high convexity, where the increase of the **gray matter** density was the highest ($p < 0.05$).

This study showed regional associations and dissociations between the relative gray matter density and rCBF in patients with iNPH ¹⁾.

¹⁾

Takahashi R, Ishii K, Tokuda T, Nakajima M, Okada T; SINPHONI-2 Investigators. Regional dissociation between the cerebral blood flow and gray matter density alterations in idiopathic normal pressure hydrocephalous: results from SINPHONI-2 study. *Neuroradiology*. 2018 Sep 30. doi: 10.1007/s00234-018-2106-1. [Epub ahead of print] PubMed PMID: 30269153.

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