

Notice of institutional review board approval

Requested institution	Department of radiology, Soonchunhyang University Seoul Hospital				
Chief of research	Yong Jae Kim, Department of radiology, Soonchunhyang University Seoul Hospital				
IRB file No.	SCHUH 2014-01-012	Review details	Medical research	Date of notification	2014.02.06
Subject of research	Comparison of hepatic venous pressure gradient and endoscopic grading of esophageal varices				

Research classification	A retrospective study based on medical records and data analysis
Total number of subject	148 patients in Soonchunhyang University Seoul Hospital
Study approval period	2014.02.06 ~ 2014.12.31
Valuation date	2014.02.06
Examination result	Approved
Validity	Research end-point

* Informed consent is waived by institutional review board.

Feb. 06. 2014

**Institutional review board
on Human Subjects Research and Ethics Committees
Soonchunhyang University Seoul Hospital
Committee Chair: Professor Soo-Taek Uh, M.D., Ph.D**

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Name: Yong Jae Kim (Corresponding author)

Signature: *Yong Jae Kim* Date: 2015. 11. 25