

# Erratum to “Retrospective Analysis of Cerebrospinal Fluid Profiles in 228 Patients with Leptomeningeal Carcinomatosis : Differences According to the Sampling Site, Symptoms, and Systemic Factors” by Shim Y, et al. (J Korean Neurosurg Soc 59 : 570-576, 2016)

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In this article by Shim et al., the measurement unit of CSF cell count was given incorrectly. It should be “cells/mm<sup>3</sup>” instead of “cells/cm<sup>3</sup>”.

Corrected sentences are as follows;

Page 570 Results of abstract :

Cell counts (median : 8 vs. 1 cells/mm<sup>3</sup>) and protein levels (median : 68 vs. 17 mg/dL) significantly higher in lumbar CSF than in ventricular CSF ( $p < 0.001$ ).

Page 571 (right column), line 46–53 :

The mean total cell count in the lumbar CSF was 25.0 cells/mm<sup>3</sup> (standard deviation :  $\pm 47.3$ ; range : 0–310). The reference normal range was set at  $\leq 5$  cells/mm<sup>3</sup>. The distribution of the cell count had a leftward skew (median : 8 cells/mm<sup>3</sup>; third quartile : 25 cells/mm<sup>3</sup>) (Fig. 1A). The distribution of the cell counts in the ventricular CSF was also skewed (mean : 10.4 cells/mm<sup>3</sup>; standard deviation :  $\pm 44.2$ ; range : 0–360; median : 1 cells/mm<sup>3</sup>; third quartile : 5 cells/mm<sup>3</sup>) (Fig. 1B).

Page 573 (left column) line 5 :

(median: 2 vs. 9 cells/mm<sup>3</sup>;  $p = 0.046$ ).

Page 574 (right column) line 1–2 :

the ventricular CSF (1 cell/mm<sup>3</sup>) was within the normal range and that 75% of the patients had  $\leq 5$  cells/mm<sup>3</sup>.

Page 574 Table 2 :

**Table 2.** Lumbar and ventricular CSF profiles correlated with LMC symptoms (n=228)

LMC symptoms	Lumbar CSF profiles				Ventricular CSF profiles					
	Cell count (cells/mm <sup>3</sup> )	<i>p</i> value	Protein (mg/dL)	<i>p</i> value	Cell count (cells/mm <sup>3</sup> )	<i>p</i> value	Protein (mg/dL)	<i>p</i> value	CEA (n=109)	<i>p</i> value
Increased ICP (15 mm Hg)		0.57		0.34		0.47		0.50		0.40
Yes (n=129)	7 (0-300)		75.5 (17-703)		1 (0-360)		18.5 (7-223)		53 (0-5098)	
No (n=99)	8 (0-205)		63 (17-1246)		1 (0-180)		17 (6-885)		13 (0-2822)	
Hydrocephalus		0.62		0.049		0.58		0.15		0.01
Yes (n=59)	9 (0-100)		92.5 (25-1064)		1 (0-180)		19 (6-885)		96 (0-4057)	
No (n=169)	8 (0-300)		61 (17-1246)		1 (0-360)		16 (6-237)		12 (0-5098)	
Cauda equina syndrome		0.45		<0.001		0.34		0.11		0.56
Yes (n=54)	8 (0-282)		118 (35-1246)		0 (0-90)		19 (6-114)		25.3 (0-4057)	
No (n=174)	8 (0-300)		59 (17-889)		1 (0-360)		16 (6-885)		15 (0-5098)	
Cranial neuropathy		0.046		0.54		0.16		0.44		
Yes (n=23)	2 (0-175)		68 (17-1246)		0 (0-79)	0.16	16 (8-237)	0.44	8 (0-2822)	0.72
No (n=205)	9 (0-300)		61 (21-570)		1 (0-360)		17 (6-885)		20.8 (0-5098)	

Representative numbers are median value and numbers in the parenthesis are ranges of observed values. CSF : cerebrospinal fluid, LMC : leptomeningeal carcinoma-tosis, ICP : intracranial pressure, CEA : carcinoembryonic antigen