## Clinical and Radiographic Features of Cryptococcus Neoformans Meningitis-associated Immune Reconstitution Inflammatory syndrome

<sup>1</sup>Gang Wu\*, <sup>2</sup>Xiumei Guo\*, <sup>3</sup>Yan Wang, <sup>4</sup>Zhijian Hu

## Corresponding author:

Correspondence to Gang Wu, gangwu57@hotmail.com

## **Author affilliation**

- 1. Department of Neurology, The First Affiliated Hospital of Fujian Medical University, Fuzhou, Fujian, P. R. China
- 2. Department of Neurology, Fujian Provincial Geriatric Hospital; Department of Neurology, North Hospital of Fujian Provincial Hospital, Fuzhou, Fujian, P.R.China
- 3. Department of Neurology, First Hospital of Quanzhou, Fujian Province, Quanzhou, Fujian, P.R.China
- 4. Department of Epidemiology and Statistics, School of Public Health, Fujian Medical University, Fuzhou, Fujian, P.R.China

<sup>\*</sup> Equal contributors

## Supplementary Data:

Suppl Table 1. To identify the methods for evaluation of effective treatments to people with CM, that is, clinical symptoms and cerebrospinal fluid biomarkers.

Prognosis	1. Healed	2. Significant effect	3. Effective	4. Invalid	5. Death or worsenin g discharg e
	Clinical	Clinical	Clinical	After treatment, the	death
	symptoms and	symptoms and	symptoms and	clinical symptoms	deterioratio
	signs completely	signs were	signs improved	and signs have not	n
	disappeared	significantly	slightly with or	improved or	
	without	improved with or	without	aggravated, and	
	complications;	without complications;	complications;	obvious complications.	
	Cerebrospinal				
	fluid	The last	The last	The last	
Clinical	examination	cerebrospinal fluid	cerebrospinal fluid	cerebrospinal fluid	
	≥ 2 times normal,	examination was	examination was	examination did not	
	ink smear	negative for the	slightly improved,	improve.	
	negative	smear of the ink,	the ink smear was	The ink smear was	
	≥ 3 times	which was	positive, but the	positive and the	
	normal; No	obviously	number of	number of	
	obvious	improved, but did	cryptococci was	cryptococci was not	
manifest	abnormalities	not reach normal:	significantly	reduced.	
a tion	were observed in	0	reduced compared		
	MRI;	Cerebrospinal	with the previous	Carabraaninal	
		fluid pressure: 180-200mmH20;	one;	Cerebrospinal fluid pressure:	
	The last	180-200111111120,	Cerebrospinal	>250mmH20;	
	cerebrospinal		fluid pressure:	~250HHHH120,	
	fluid		200-250mmH20		
	examination	Total protein:	200 200111111120		
	pressure:	0.45-0.60g /		Total protein: >2g/L;	
	80-180mmH20;	L;			
	,	<b>–,</b>	Total protein:		
	Total	Glucose:	0.60-2.00g /	Glucose:	
	protein:	2.20-2.50mmol/L;	L;	<1.5mmol/L;	
	0.15-				
	0.45g/L;	Chloride:	Glucose:	Chloride:	
		110-120mmol/L;	1.5-2.2mmol/L;	<100mmol/L;	
	Glucose:				
	2.5-4.5mmol/L;	White blood cell	Chloride:	White blood cell	
		count: 8-20 x 10 <sup>6</sup> /	100-109mmol/L;	count: >60×106/L.	
	Chloride: 120-	L			
	132 mmol/L;		White blood cell count: $20-60 \times 10^6$ /		
	White blood cell		L		

count: 0-8 x 10<sup>6</sup>

Suppl Table 2. Different combinations of antifungal treatments have been shown to have no effects on not only the treatments of CM but also incident CM-IRIS and CM non-IRIS.

Efficacy	Α	В	С
Healed	9.09%	0	3.57%
Significant effect	36.36%	18.18%	37.50%
Effective	45.45%	81.82%	42.86%
Invalid	0	0	3.57%
Death	0	0	7.14%
worsening discharge	9.09%	0	5.36%
CM-IRIS	24.24%	36.36%	25.00%
CM non-IRIS	75.76%	63.64%	75.00%
Total	33	11	56

Note: Group A: Voriconazole/Fluconazole+5-Fluorocytosine; Group B: Amphotericin B+5-Fluorocytosine; Group C: Voriconazole/Fluconazole+Amphotericin+5-Fluorocytosine. We adopted  $\chi^2$  which is a table contains a matrix of rows and columns to conduct the examination:  $\chi^2$ =11.802, P=0.299.

Statistical results suggested that different combinations of antifungal treatments had been shown to have no effects on treatment to CM; Through adopting  $\chi^2$  ( $\chi 2 = 0.696$ , P=0.706) to do the similar examination: we found the same results in the treatment of different antifungal drugs to CM-IRIS and CM-no IRIS.