

Methods

- This retrospective, single-center study inclusion patients diagnosed with iMCD-TAFRO and TA w/o-iMCD from May 2015 to Jun 2024. diagnostic criteria for TAFRO syndrome requir three major categories and at least two of minor categories and failing to satisfy any of suggested exclusion criteria^[2].
- Patients with TAFRO syndrome were categor into iMCD-TAFRO, TAFRO-w/op-iMCD, and TA w/o-iMCD and we included patients with iN **TAFRO and TAFRO-w/o-iMCD**. Treatment resp (symptomatic response and biochemical response) was evaluated according to the CDCN guidel with primary outcomes being response rates months, 6 months, and the best overall response Secondary outcomes included 3-year estim progression-free survival (PFS), overall survival rates, and 3-month mortality rate.

iMCD-TAFRO and TAFRO-w/o-iMCD patients could be considered as the same disease entity and be treated promptly, targeting the cytokine storm using similar treatment strategies. Conclusion

Reference: [1] Am J Hematol 2021, 96:1241-1252. [2] Int J Hematol 2020, 111:155-158).

TAFRO syndrome without pathological evidence consistent with Castleman disease: a subtype of TAFRO or a distinct disease entity?

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Introduction

Idiopathic TAFRO syndrome, characterized by Thrombocytopenia, Anasarca, Fever, Reticulin myelofibrosis, Renal dysfunction, and Organomegaly, was primarily considered a distinct subtype of idiopathic multicentric Castleman disease (iMCD-TAFRO). Patients often experience severe cytokine storm, leading to the Castleman Disease Collaborative Network (CDCN), the diagnostic criteria for iMCD-TAFRO require pathological evidence consistent with Castleman disease (CD). However, obtaining lymph node biopsies is challenging for TAFRO patients (TAFRO without pathological evidence, TAFRO-w/op-iMCD)^[1] due to the unapparent lymphadenopathy and high-risk of bleeding caused by thrombocytopenia. Even with significant effort, biopsies may not yield conclusive pathological findings consistent with iMCD spectrum (TAFRO-w/o-iMCD)^[1]. • Without a definite pathological diagnosis of Castleman disease for patients with TAFRO-w/op-iMCD, treatment might be delayed which would bring poor diagnosis. Previous studies demonstrated that TAFRO-w/op-iMCD patients showed no significant differences in clinical presentation, laboratory findings, and treatment efficacy compared with iMCD-TAFRO patients and could be regarded as a subtype of TAFRO syndrome. However, it remains unclear whether TAFRO-w/o-iMCD should be treated as a subtype of TAFRO syndrome.

Results

uded	 A total of 61 patients were included(5
FRO-	 Both groups showed no significant d
The	anasarca, fever, organomegaly, and
re all	(including hemoglobin, platelets, cre
four	and interleukin-6).
f the	 Each group had one patient who a
	remaining 59 patients were treated
orized	cytokine storm.
FRO-	 With a median follow-up time of 21
MCD-	significant differences between iN
onse	terms of the 3-month response i
onse)	response rate (70.0% vs. 83.3%, P=0
lines,	vs. 90.0%, P=0.645).
s at 3	• The 3-month mortality rate (12.0%
onse.	(65.8% vs. 90.0%, log-rank P=0.163
nated	100%, log-rank P=0.145) were also r
l (OS)	 Decreased eGFR level (< 60ml/min/1.

50 iMCD-TAFRO and 11 TAFRO-w/o-iMCD). lifferences in clinical presentations (fatigue, skin involvement) and laboratory data reatinine, hypersensitive C-reactive protein,

achieved spontaneous remission, while the with iMCD-targeted strategies addressing

1.4 (range, 0.5-107.0) months, there were no MCD-TAFRO to TAFRO-w/o-iMCD patients in rate (72.1% vs. 88.9%, P=0.525), 6-month 0.849), and best overall response rate (77.6%)

vs. 0%, P=0.515), estimated 3-year PFS rate 3), and estimated 3-year OS rate (77.0% vs. not significantly different.

73m2) was associated with an increased risk of disease progression (OR=5.556, 95%CI: 1.653-18.672, p=0.006) in our cohort.



