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Introduction: In 2017, the Castleman Disease Collaborative Network (CDCN) published the first international, evidence-based consensus diagnostic criteria for HHV-8 (human herpesvirus-8) negative/idiopathic multicentric Castleman disease (MCD), a rare and sometimes life-threatening disorder involving systemic inflammatory symptoms, polyclonal lymphoproliferation, cytopenias, as well as multiple organ system dysfunction. According to this consensus, HHV-8 negative MCD was regarded as idiopathic MCD (iMCD) due to unknown etiology. However, there was a group of HHV-8 negative MCD patients who did not exhibit symptoms indicative of a hyperinflammatory state and therefore did not meet the minor criteria of iMCD proposed by CDCN. It was still unknown whether this subgroup of patients, regarded as asymptomatic MCD, which would eventually suffer from clinical and laboratory abnormalities over time, or if these patients belonged to a unique subset of MCD patients. Herein, we conducted a multicenter, retrospective study focusing on the follow-up information and potential transformation of aMCD patients, trying to figure out whether these patients would eventually exhibit inflammatory symptoms and laboratory abnormalities and transform into iMCD.

Results: 114 patients with aMCD were enrolled, with a male to female ratio of 1:0.9. **Methods:** This observational, retrospective The median age at diagnosis of aMCD was 45.5 years (range: 10-79 years). Adult study enrolled aMCD patients from 2000 to patients accounted for 92.1%. After diagnosis of MCD, although the patients did not 2021 in 26 Chinese medical centers. The have inflammatory symptoms or laboratory abnormalities, 43 patients (37.7%) inclusion criteria for aMCD patients who were received treatment targeting MCD. With a median follow-up time of 46.5 months eligible for this study were: HHV-8 negative (range: 4-279 months), 6 patients (5.3%) transformed to iMCD. The median time MCD patients who met both major criteria between diagnosis of aMCD and iMCD in these 6 patients was 28.5 months (range: (histopathologic evidence plus \geq 2 lymph 3-60 months). Gender, age at diagnosis of aMCD, extent of lymph node involvement node stations involvement) but did not fulfill (the same side or both sides of diaphragm), pathological subtype and systemic the minimal requirements of minor diagnostic therapy targeting MCD were not associated with the probability of transformation to criteria (at least 2/11 minor criteria with ≥ 1 iMCD. During follow-up, 7 patients died; three of them died from progression of laboratory criterion) proposed by CDCN. MCD. Despite that 37.7% patients received systemic treatment targeting MCD, this Patients were followed until March 31, 2023 strategy was neither associated with a lower probability of iMCD transformation nor and survival status was documented. The a lower death rate. The 5-year estimated survival rate of patients who maintained time-point patient developed when a aMCD was 94.9% while the 5-year estimated survival rate of patients who ultimately laboratory and/or symptoms new transformed to iMCD was 83.3%. Transformation to iMCD was an important fulfilled the CDCN abnormalities and predictor of death (log-rank p=0.01, Figure 1). diagnostic criteria of iMCD was recorded.

Asymptomatic Multicentric Castleman Disease: a Potential

Early Stage of Idiopathic MCD

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