Reviewer’s report

**Title:** CD4 positive/CD8 negative/CD56 positive T cell Large Granular Lymphocyte Proliferations. Clonal Disorders of Uncertain Significance.

**Version:** 2  **Date:** 6 March 2014

**Reviewer:** Michael Clemente

**Reviewer’s report:**

Mutreja et al present two case reports on patients with putative CD4+ T-LGL lymphocytosis.

**Major Revisions**

1) While the patients fulfill many 2008 WHO diagnostic criteria of the disorder, one of the critical missing parameters is proof of clonality. The authors assert that alpha/beta “restriction” is sufficient to establish clonality, however, this belies a fundamental misunderstanding of flow cytometry and immunology. In general, the vast majority of an individual’s T cells express an alpha/beta T cell receptor, as such an antibody against alpha/beta TCRs will recognize the majority of T cells and does not establish clonality. With that in mind, it is unclear that these patients have T-LGL lymphocytosis.

**Minor revisions**

1) Would benefit from native English speaker editing, ex. use of “commoner CD8+ T-LGL expansions” in the introduction, “fatigability” in Case 1
2) Quantify percentages in flow plots

**Level of interest:** An article of insufficient interest to warrant publication in a scientific/medical journal

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare I have no competing interests