

Cytokines

Description

In Wichita clinical study, the plasma cytokine levels include IL-6 (interleukin 6), TNF (tumor necrosis factor) alpha, and IL-1beta. Cytokines were measured using an enzyme-linked immunosorbent assay (ELISA) kit (RayBiotech, GA, USA) and all cytokine assays were run at the CDC.

Study Sample

Of the 227 participants in this study, plasma cytokines were measured for 218 of them.

Specimen Collection Method

Specimen collection methods are the same as the methods described in Endocrine document.

Recommendations for Data Processing and Analysis

Data should be log transformed to normalize the distribution.

References

RayBiotech, Norcross, GA USA. Website: <http://www.raybiotech.com/index.asp?m=1>

Vernon SD, Reeves WC. The challenge of integrating disparate high-content data: epidemiologic, clinical, and laboratory data collected during an in-hospital study of chronic fatigue syndrome" *Pharmacogenomics* 2006; 7:345-354.