Intracellular Cystine Measurement: What is Normal?

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Intracellular cystine content (whether in mixed leukocytes or granulocytes) is the mainstay to monitor therapy in cystinosis. The greatest source of variability in those measurements is not the cystine itself, but the total protein, which is used to normalize the result. We will discuss variability in the measurements, problems with protein normalization, and possible ways to improve normalization.