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Elevated levels of protein carbonyls in sera of chronic fatigue syndrome patients.

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Protein carbonyl levels, a measure of protein oxidation, were found to be significantly elevated ($p < 0.0005$) in the sera of chronic fatigue syndrome (CFS) patients vs. controls. In contrast, the total protein levels in sera CFS patients were unchanged from those of controls. The elevated protein carbonyl levels confirm earlier reports suggesting that oxidative stress is associated with chronic fatigue syndrome and are consistent with a prediction of the elevated nitric oxide/peroxynitrite theory of chronic fatigue syndrome and related conditions.

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