CORRECTION *Biophysical Journal*

Melzer et al., Vol. 45, No. 3, March 1984

Page 640

The last paragraph is incomplete and should read as follows: We have shown previously that for pulses of constant duration, the rate constant, γ, for the decay of $\Delta[Ca^{2+}]$ after a pulse decreased with increasing pulse amplitude (4). This was interpreted as being due to an effect of the preceding pulse voltage on calcium removal by the SR after the pulse. We now show that for pulses of constant amplitude, γ decreased with increasing pulse duration. Detailed analysis of the decay of $\Delta[Ca^{2+}]$ after pulses of varying amplitudes and durations indicates that effects of both amplitude and duration can be explained in terms of a component of removal being due to calcium binding to a population of saturable binding sites (W. Melzer, E. Rios, and M. F. Schneider, manuscript in preparation). The fraction of these sites occupied by calcium increases as a result of the increasingly large or long calcium transients elicited by pulses of increasing amplitude or duration. Since only unoccupied sites participate in calcium removal, the contribution of the saturable sites to γ decreases as they are increasingly occupied.