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Talitha M Washington* (talitha.washington@howard.edu), 2441 Sixth Street NW,
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Modeling*. Preliminary report.

The body has many processes that are synchronized to maintain a specific level of calcium. This regulatory mechanism, calcium homeostasis, provides the necessary mechanism for proper signalling to occur at the cellular level. Muscle contractions, skeletal structure, as well as a variety of signalling pathways need calcium so that proper functions can be accomplished. In this talk, we discuss a preliminary mathematical model of this regulatory mechanism. (Received August 20, 2013)