Balance is an essential component to both static and dynamic movements. Assessment of balance is needed for a thorough functional assessment. Both objective and subjective balance assessment tests have been developed over the past several years. Balance Error Scoring System (BESS), BiodeX Balance System SD, and Sway Balance App (SBA) are three such assessment platforms.

A correlation study comparing SBA to BESS has been done, but not for comparing SBA to BBS. Pearson r for SBA to BESS (r = 0.79; p < 0.01) was found. No correlational studies comparing SBA to BBS have been found in the literature.

For the BBS, participants were tested in Clinical Test of Sensory Integration of Balance mode (Figure 1). Stances, surfaces and eyes open/closed were done as per BBS above and performed for 30 seconds. The BBS and SBA were scored by each unit, measuring the subject’s postural sway. No significant correlations between any of the three balance assessment tools were found.

Deficits in balance have been noted in patients who suffer mild traumatic brain injury/concussion such as assessment platforms. For the BESS, standard assessment procedures were followed as per David Bell (Figure 2). The number of errors committed by the subject in a balance position was recorded. For the SBA, a mobile device, (iPhone 5S) was held by the subject at their chest while balancing (Figure 3). The BESS was scored by the number of errors the subject committed while in the specified stances. The SBA was scored for standardization & correlations were run with like stances.

There were no significant correlations between any of the three balance assessment tools (Tables 2-4; Figures 4-6).

There were no statistically significant results found with these subjects, in these circumstances.