Non-Cognitive Predictors of Student Success: A Predictive Validity Comparison Between Domestic and International Students

INTRO:
The purpose of this study was to examine the correspondence between EWB elements when assessed as retrospective, longer-term states or concurrent, shorter-term states. We conceptualized EWB as a distribution of changing states of well-being—autonomy, connection, and competence—linking means of those states to retrospective reports of well-being.

METHODS:
The Daily Activity and Health in the Lives of Adult Women (DAHLiA) study investigated the relationship between physical pain and well-being in 200 midlife and older women (age 50 to 75) in a longitudinal burst design that included daily and retrospective reports of EWB at each of 9 week-long bursts taking place every 3 months.

RESULTS:

<table>
<thead>
<tr>
<th></th>
<th>Autonomy</th>
<th>Competence</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autonomy (d)</td>
<td>0.77</td>
<td>0.55</td>
<td>0.29</td>
</tr>
<tr>
<td>Competence (d)</td>
<td>0.82</td>
<td>0.64</td>
<td>0.53</td>
</tr>
<tr>
<td>Connection (d)</td>
<td>0.61</td>
<td>0.89</td>
<td>0.48</td>
</tr>
</tbody>
</table>

Correlations at the level of the person (mean across bursts) are shown below the diagonal and at the level of the burst (deviations from that mean) are shown above the diagonal. Note the correspondences in bold.

Most of the variance in well-being was at the level of the mean (in both diary and questionnaire) and day (in diary). Burst or “wave” level change comprised a minority of the variance in both diary and questionnaire.

Well-being is experienced both as stable traits and daily changes. Daily and retrospective reports correspond with each other.

Data analysis was performed in R (3.5.0). Sources of variance were estimated in “empty” multilevel models using REML estimation.

Of the possible 1800 bursts, 1529 were completed.

Daily diary reports of autonomy, connection, and competence were generally high, as reflected in the individual means (iMean). There was substantial variance within people over days, as reflected in the individual SDs (iSD) (see Mean and Median of the iMeans and iSDs). There were also individual differences in the iMeans and iSDs (see SD, Minimum, and Maximum).

Mean | SD | Median | Minimum | Maximum
--- | --- | --- | --- | ---
Autonomy (iMean) | 84.24 | 14.38 | 87.73 | 35.98 | 100.00
Autonomy (iSD) | 14.42 | 7.91 | 15.00 | 0.00 | 37.66
Connection (iMean) | 79.47 | 17.28 | 81.68 | 28.63 | 100.00
Connection (iSD) | 17.03 | 8.56 | 17.88 | 0.00 | 37.89
Competence (iMean) | 86.84 | 12.23 | 89.17 | 42.07 | 100.00
Competence (iSD) | 13.21 | 7.23 | 13.96 | 0.00 | 34.59

Most of the variance in well-being was at the level of people (in both diary and questionnaire) and day (in diary). Burst or “wave” level change comprised a minority of the variance in both diary and questionnaire.

**Psychological Well-Being: Retrospective vs. Daily Reports**

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