Supplementary material

Supplementary Table 1. Goodness of fit (r2) for all correlations between health literacy, cancer literacy and comprehension.

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|  | BHLS | HeLMS domain 1 | HeLMS Domain 2 | HeLMS Domain 3 | HeLMS domain 4 | HeLMS Domain 5 | HeLMS Domain 6 | HeLMS Domain 7 | HeLMS Domain 8 |
| BHLS |  | *p* = 0.013  r2 0.084 | *p* < 0.0001  r2 0.62 | *p* = 0.328  r2 0.014 | *p* = 0.018  r2 0.078 | *p* < 0.0001  r2 0.19 | *p* = 0.0001  r2 0.19 | *p* = 0.0009  r2 0.15 | *p* < 0.0001  r2 0.27 |
| CMLT | *p* = 0.009  r2 0.094 | *p =* 0.94  r2 0.00007 | *p* = 0.013  r2 0.85 | *p* = 0.72  r2 0.0019 | *p* = 0.012  r2 0.088 | *p* = 0.0025  r2 0.012 | *p* = 0.38  r2 0.011 | *p =* 0.77  r2 0.0013 | *p* = 0.98  r2 0.00001 |
| PCA Knowledge test | *p* = 0.18  r2 0.026 | *p* = 0.093  r2 0.039 | *p* = 0.19  r2 0.024 | *p* = 0.013  r2 0.085 | *p* = 0.13  r2 0.033 | *p* = 0.048  r2 0.055 | *p* = 0.024  r2 0.07 | *p* = 0.57  r2 0.0042 | *p* = 0.49  r2 0.0069 |
| SEIFA code | *p* = 0.86  r2 0.0004 | *p* = 0.77  r2 0.0013 | *p* = 0.57  r2 0.0045 | *p* = 0.32  r2 0.015 | *p* = 0.046  r2 0.055 | *p* = 0.25  r2 0.019 | *p* = 0.48  r2 0.007 | *p* = 0.87  r2 0.0004 | *p* = 0.91  r2 0.0002 |
| Age | *p* = 0.269  r2 0.017 | *p* = 0.16  r2 0.028 | *p* = 0.66  r2 0.0028 | *p =* 0.77  r2 0.0012 | *p* = 0.65  r2 0.0029 | *p* = 0.19  r2 0.0027 | *p* = 0.67  r2 0.0027 | *p* = 0.42  r2 0.0095 | *p* = 0.59  r2 0.0042 |

Correlations between continuous data with two numerical variables were analysed using linear regression with significance determined by *p* values < 0.05. The “goodness of fit” represented by r2. All data are shown as to two significant figures. Significant correlations are presented in bold.

Abbreviations: BHLS: Brief Health Literacy Score; HeLMS: Health Literacy Management Scale; CMLT: Cancer Message Literacy Tests Reading; PCA: prostate cancer; SEIFA: Socioeconomic Index for Areas.