**Supplementary Table 1**

*Detailed description of proxy-assessment scoring options of happiness and*

*engagement used in current study*

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| Happiness | |
| 1 | Usually not feeling good, never really enjoying; often tense, lacks inner peace; many signals indicate negative experiences; little self-assured, low self-esteem; relationships with others are negative; not in touch with themselves; does not feel happy |
| 2 | A pattern of predominantly discomfort |
| 3 | Shows neutral or mixed signs, signals of not feeling optimal or having fun are not intense and transient; relationships with the environment are not optimal, but also not worrying; does not really live intensely; not happy nor unhappy |
| 4 | A pattern of predominantly happiness |
| 5 | Usually feels excellent: enjoys life to the fullest; exudes vitality; is relaxed and calm; is open to the environment and adapts easily; has self-confidence and shows resilience; feels good about themselves; is in touch with themselves |
| Engagement | |
| 1 | Rarely comes to real activity: often staring, absent and listless; only short moments of attention; no engagement in activity; if active, showing simple stereotypical actions that require little effort; little mental activity; little awareness of the environment |
| 2 | A pattern of predominantly interrupted activity |
| 3 | Usually engages in activity, with progressing actions; is mentally present, but the involvement signals are usually missing; regularly distractible, rather limited attention span, not really absorbed by activity |
| 4 | A pattern of predominantly involvement |
| 5 | Is usually continuously very concentrated; little distractible; approachable; alert; is completely absorbed, fascinated; is highly mentally active; fully utilizing their possibilities; pushes the boundaries of their ability; enjoys exploration |