

Supplementary Materials

Table S1: Development of the variables used in this study from the data collected and provide by the longitudinal study of Australian youth (LSAY)

	Indicator	Youth age	Measurement items	Responses	Dichotomisation
Adverse youth experiences/environments					
Standard of living					AYEs count if
Living in Poverty	13 items	15	Which of the following possessions do you have? ▪ Desk, Own room, study place, computer, software, Internet, calculator, Literature, Poetry, Art, Text books, Dictionary, Dishwasher	Yes/No	Score < 7
Low money	2 items	16	Are you happy with: ▪ 'The money you get each week', 'Your standard of living'	1 = 'Very happy' to 4 = 'Very unhappy'	1 or more unhappy responses
Single parent home					
Family structure	1 item	15	Which best describes your family?	'Single parent family', 'Nuclear family', 'Mixed family', 'Other', 'Missing'	Single parent family
Experiences of homelessness/transience					
Not living with parents/relatives	1 item	16 and/or 17	Do you usually live with your parents (or your partner's parents) or somewhere else?	'In your parents home', 'with other relatives', 'In a private house as a boarder', 'in a shared house of flat', 'in a hostel', 'somewhere else' or 'other'	Youth does not live 'In your parents home' or 'with other relatives'
Alienation					

Not belonging at school	3 items	15	School is a place where: ▪ I feel like an outsider, feel awkward, feel lonely	1 = 'Strongly Agree' to 4 = 'Strongly disagree'	2 or more answered agree or strongly agree
Poor teacher interactions	1 item	15	School is a place where: ▪ 'Teachers treat me fairly'	1 = 'Strongly Agree' to 4 = 'Strongly disagree'	Disagree or strongly disagree
Carer responsibilities					
Looking after other people	1 item	17	Outside study or work, how often do you: ▪ Look after people (e.g. young children, grandparents)	Every day to Never	Every day or several times per week.
Positive youth experiences/environments					
Good relationships - Trusting and supportive					PYEs count if
Friendships	1 item	17	How important in your life are: - Your close friends?	On a scale from 0 - 10, where 0 is not at all important and 10 is very important	Score > 7
Family relationships	1 item	17	How important in your life are: - Family members you live with?		Score > 7
Supportive adults	4 items	17	How important in your life are: - Relatives you don't live with? - Your Neighbours? - Your friends parents? - Your parents' friends or workmates?		2 x Score > 7
Positive teacher relationship	2 items (alpha = 0.66)	15	'Most of my teachers really listen to what I have to say?', and 'If I need extra help, I will receive it from my teachers?'	1 = 'Strongly Agree' to 4 = 'Strongly disagree'	1 or more answered positively
Supportive neighbourhood and learning environments					

Belonging at school	3 items (alpha = 0.59)	15	School is a place where: I Make friends, Feel I belong, and I think I'm liked	1 = 'Strongly Agree' to 4 = 'Strongly disagree'	2 or more answered positively
Good student-teacher relationships	2 items (alpha= 0.71)	15	'Students get along well with most teachers', and 'Most teachers are interested in students' well-being'	1 = 'Strongly Agree' to 4 = 'Strongly disagree'	1 or more answered positively
School safety	1 item	15	My school is a place where: I feel safe and secure	1 = 'Strongly Agree' to 4 = 'Strongly disagree'	Agree or Strongly agree
Neighbourhood safety	1 item	17	How safe do you feel walking alone after dark in your neighbourhood?	1= 'Very Safe' to 4 = 'Very unsafe'	Safe or Very safe
Social engagement and enjoyment					
Activity: School organised	6 items (alpha = 0.5)	15	How often did you take part in the following school-organised activities: - Sport, Music, debating, drama, peer support, school-sponsored volunteer activities?	1 = 'at least once a week, 2 = 'at least once a month', 3 = 'at least every 3 months', 4 = 'at least once per year' and 5 = 'never'	Any activity completed monthly or more
Activity: Non-school	2 items (alpha = 0.59)	16 and 17	How often do you: Take part in any community-based activity?		Any activity completed monthly or more
Outcomes					
Education, Training and Employment					Outcome if
Employed	1 item	25	Employment status	'FT', 'PT', 'Not working (unemployed or not in labour force)', 'Working, but working time unknown'	Full-time, Part-time or unknown hours

Highest education level	1 item	25	Highest qualification level completed	9 item list ranging from Certificate I to a Postgraduate degree (PhD/Masters)	Certificate IV (post secondary school trade or equivalent qualification) or above
Education	1 item	25	Currently in education	'Full-time', 'Part-time', 'Unknown', 'Not Studying'	FT or PT
Welfare					
Government payments	1 item	25	Which government payments are you currently receiving?	Full list (inc. Parenting Allowance, Rent Assistance)	Any or None
Health					
General Health	1 item	25	In general, would you say your health is:	1 = Excellent to 5 = Poor	Good to Excellent
Mental health	1 item	25	Kessler 6 - In the past 4 weeks, how often did you feel: - Nervous, Hopeless, Restless or Fidgety, Everything is an effort, So sad nothing would cheer you up, Worthless	1 = 'None of the time' to 5 = 'All of the time'. Total scores range from 6 = Good to 30 = Very poor	Total score under 18