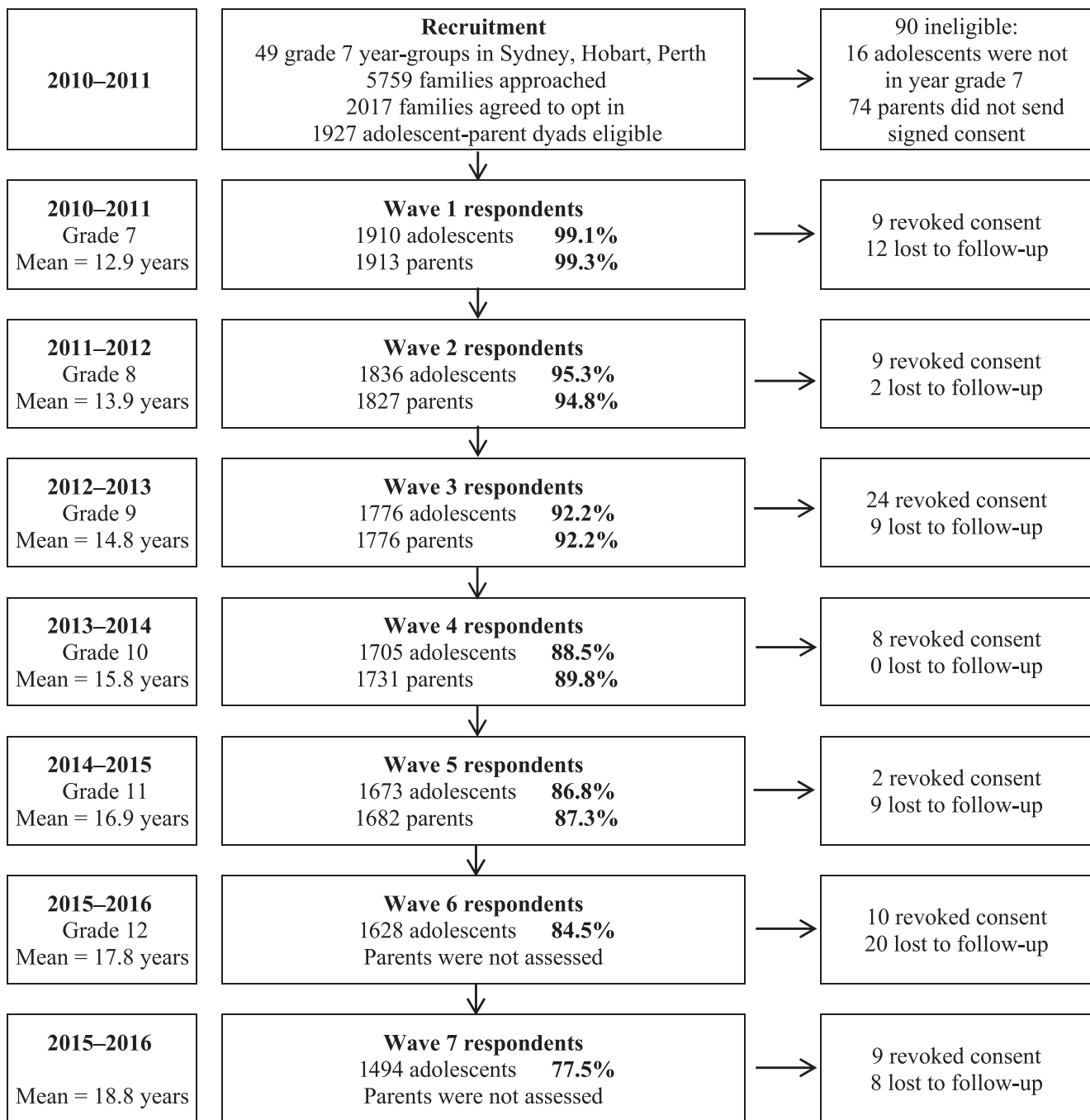


Supplemental Information



SUPPLEMENTAL FIGURE 2

Flowchart of recruitment and annual retention of APSALS cohort.

SUPPLEMENTAL TABLE 4 Frequency of Alcohol Use From Wave 1 to Wave 7

Frequency	Wave 1 (n = 1910), %	Wave 2 (n = 1825), %	Wave 3 (n = 1772), %	Wave 4 (n = 1700), %	Wave 5 (n = 1668), %	Wave 6 (n = 1624), %	Wave 7 (n = 1497), %
Never	80.16	67.40	61.63	52.47	34.77	21.31	7.82
Less often	14.61	24.22	28.56	32.18	39.93	32.57	17.23
~1 d/mo	2.09	4.16	4.91	7.41	11.33	15.58	13.49
2–3 d/mo	2.09	2.47	3.67	5.88	10.25	20.44	30.06
1–2 d/wk	0.84	1.21	0.85	1.53	3.18	8.74	26.52
3–4 d/wk	0.16	0.38	0.23	0.24	0.42	1.17	3.54
5–6 d/wk	0.05	0.16	0.06	0.06	0.06	0.12	0.94
Every day	0.00	0.00	0.11	0.24	0.06	0.06	0.40

SUPPLEMENTAL TABLE 5 Typical Quantity of Alcohol Use From Wave 1 to Wave 7

Quantity	Wave 1 (n = 1910), %	Wave 2 (n = 1825), %	Wave 3 (n = 1772), %	Wave 4 (n = 1700), %	Wave 5 (n = 1668), %	Wave 6 (n = 1624), %	Wave 7 (n = 1497), %
None	80.16	68.16	62.81	53.82	35.37	21.80	8.28
Sip or taste	14.03	23.89	22.46	17.35	13.55	8.25	2.14
1–2 drinks	4.66	4.66	3.33	12.71	17.21	18.35	19.77
3–4 drinks	0.89	1.26	3.50	5.65	11.45	17.12	22.11
5–6 drinks	0.21	0.77	5.02	4.53	10.31	15.58	20.37
7–10 drinks	0.05	0.55	1.69	3.53	7.49	12.32	17.03
11–12 drinks	0.00	0.27	0.28	1.12	2.16	3.63	4.48
≥13 drinks	0.00	0.49	0.96	1.29	2.28	2.96	5.74

SUPPLEMENTAL TABLE 6 Adjusted Multinomial Logistic Regression Predicting Class Membership Using Baseline Characteristics

	Reference: Early-Onset Moderate Drinking				Reference: Abstaining	
	Abstaining		Early-Onset Heavy Drinking		Early-Onset Heavy Drinking	
	RRR	99.5% CI	RRR	99.5% CI	RRR	99.5% CI
Female sex	0.64	0.42–0.98	1.48	0.85–2.59	2.32	1.22–4.38
Importance of religion to parents (reference: no or a little)						
Pretty or very important	1.48	0.94–2.34	0.91	0.49–1.69	0.61	0.31–1.23
Parent born in Australia	0.93	0.57–1.52	1.36	0.68–2.74	1.46	0.66–3.21
Parent employment status (reference: employed)						
Unemployed, in workforce	1.04	0.54–2.00	0.82	0.33–2.07	0.79	0.28–2.26
Unemployed, not in workforce	2.24	0.93–5.43	1.15	0.34–3.83	0.51	0.14–1.91
Parent education (reference: high school or less)						
Diploma	0.93	0.55–1.57	1.59	0.79–3.23	1.71	0.78–3.76
University	0.68	0.40–1.15	1.05	0.51–2.17	1.56	0.69–3.52
Family history of alcohol problem	0.85	0.54–1.32	1.14	0.66–1.98	1.34	0.7–2.57
Single-parent household	0.72	0.40–1.29	0.51	0.24–1.09	0.71	0.29–1.75
Smoking	0.18	0.01–5.58	3.34	0.10–111.19	18.35	0.2–1710.84
Parental monitoring	1.07	0.81–1.40	0.75	0.57–0.98	0.7	0.51–0.96
Parent demandingness	1.27	0.97–1.66	0.98	0.73–1.32	0.77	0.54–1.11
Parent responsiveness	1.08	0.83–1.41	0.98	0.73–1.33	0.91	0.63–1.31
Parenting consistency	0.90	0.72–1.11	0.83	0.62–1.11	0.93	0.67–1.29
Household average alcohol use	0.92	0.67–1.27	1.10	0.88–1.37	1.2	0.84–1.71
Home access	0.76	0.60–0.96	1.00	0.75–1.33	1.31	0.94–1.83
Alcohol-specific rules	1.34	0.56–3.18	0.69	0.48–0.98	0.51	0.18–1.48
Family positive relation	1.03	0.81–1.32	0.96	0.77–1.19	0.93	0.69–1.24
Family conflict	0.91	0.72–1.14	1.12	0.84–1.50	1.24	0.89–1.73
Externalizing	0.92	0.70–1.22	1.21	0.87–1.69	1.31	0.89–1.93
Anxious or depressed	1.12	0.84–1.49	0.87	0.56–1.35	0.78	0.49–1.25
Withdrawn or depressed	1.18	0.87–1.59	0.80	0.55–1.17	0.68	0.44–1.06
Peer substance use	0.39	0.23–0.66	2.00	1.43–2.80	5.18	2.78–9.64
Peer approval of substance use	0.92	0.73–1.17	0.81	0.61–1.06	0.87	0.63–1.21
Socioeconomic index for area	1.07	0.84–1.36	1.00	0.75–1.34	0.94	0.66–1.32

SUPPLEMENTAL TABLE 7 Logistic Regression Predicting Number of Alcohol Misuse Symptoms by Class

	Dependence		Abuse		AUD	
	OR	99.5% CI	OR	99.5% CI	OR	99.5% CI
Class (reference: early-onset moderate drinking)						
Abstaining	0.15	0.06–0.4	0.09	0.02–0.42	0.12	0.06–0.24
Early-onset heavy drinking	2.83	1.24–6.46	4.17	1.72–10.12	4.89	1.67–14.27
Class (reference: abstaining)						
Early-onset heavy drinking	18.76	5.17–68.04	46.56	8.19–264.63	41.97	11.71–150.42

SUPPLEMENTAL TABLE 8 Unadjusted Multinomial Logistic Regression Predicting Class Membership Using Baseline Characteristics

	Reference: late-Onset Moderate Drinking						Reference: Early-Onset Moderate Drinking				Reference: Abstaining	
	Early-Onset Moderate Drinking		Abstaining		Early-Onset Heavy Drinking		Abstaining		Early-Onset Heavy Drinking		Early-Onset Heavy Drinking	
	RRR	99.5% CI	RRR	99.5% CI	RRR	99.5% CI	RRR	99.5% CI	RRR	99.5% CI	RRR	99.5% CI
Female sex	1.07	0.75–1.53	0.80	0.52–1.21	1.16	0.74–1.82	0.75	0.5–1.12	1.08	0.7–1.68	1.46	0.89–2.38
Importance of religion to parents (reference: no or a little)												
Pretty or very important	0.92	0.62–1.37	1.58	1.02–2.45	0.69	0.40–1.17	1.71	1.12–2.61	0.75	0.44–1.26	0.44	0.25–0.76
Parent born in Australia	1.01	0.67–1.53	0.79	0.50–1.25	1.19	0.70–2.04	0.78	0.5–1.21	1.18	0.7–1.97	1.51	0.86–2.64
Parent employment status (reference: Employed)												
Unemployed, in workforce	0.96	0.56–1.66	1.12	0.60–2.09	0.95	0.47–1.92	1.17	0.64–2.11	0.99	0.5–1.95	0.85	0.4–1.79
Unemployed, not in workforce	0.77	0.34–1.73	1.47	0.65–3.34	1.24	0.50–3.07	1.92	0.84–4.36	1.62	0.65–4.02	0.84	0.34–2.09
Parent education (reference: high school or less)												
Diploma	0.71	0.45–1.14	0.73	0.43–1.23	0.82	0.47–1.45	1.02	0.62–1.68	1.15	0.67–1.99	1.13	0.62–2.03
University	0.87	0.56–1.35	0.65	0.39–1.08	0.64	0.36–1.13	0.75	0.46–1.21	0.74	0.43–1.27	0.99	0.54–1.8
Family history of alcohol problem	0.99	0.68–1.44	0.84	0.54–1.30	1.11	0.70–1.77	0.85	0.56–1.27	1.12	0.72–1.75	1.32	0.8–2.18
Single-parent household	1.38	0.87–2.20	0.97	0.55–1.71	1.37	0.77–2.43	0.7	0.42–1.18	0.99	0.58–1.68	1.41	0.76–2.63
Smoking	1.55	0.09–25.57	0.76	0.02–29.55	12.18	1.18–126.06	0.49	0.02–15.1	7.84	1.1–55.9	15.93	0.76–335.34
Parental monitoring	0.74	0.57–0.96	1.02	0.74–1.41	0.46	0.34–0.62	1.37	1.03–1.82	0.62	0.5–0.77	0.45	0.33–0.62
Parent demandingness	0.86	0.71–1.05	1.23	0.95–1.59	0.62	0.49–0.78	1.42	1.12–1.81	0.71	0.59–0.87	0.5	0.38–0.65
Parent responsiveness	0.91	0.75–1.09	1.06	0.85–1.32	0.67	0.54–0.84	1.17	0.95–1.44	0.74	0.61–0.92	0.64	0.5–0.81
Parenting consistency	0.85	0.71–1.03	0.87	0.69–1.10	0.62	0.49–0.77	1.02	0.82–1.28	0.72	0.59–0.88	0.7	0.54–0.92
Household average alcohol use	1.02	0.85–1.23	0.84	0.59–1.19	1.16	0.95–1.42	0.82	0.58–1.15	1.13	0.95–1.35	1.38	0.96–1.99
Home access	1.16	0.97–1.39	0.88	0.71–1.08	1.11	0.88–1.39	0.76	0.62–0.93	0.95	0.76–1.19	1.26	0.98–1.62
Alcohol-specific rules	0.34	0.14–0.81	0.64	0.21–1.97	0.18	0.07–0.47	1.87	0.72–4.86	0.53	0.39–0.72	0.28	0.1–0.84
Family positive relation	0.95	0.78–1.16	1.01	0.78–1.30	0.83	0.68–1.02	1.06	0.84–1.34	0.88	0.73–1.06	0.83	0.65–1.05
Family conflict	1.04	0.87–1.25	0.94	0.75–1.17	1.29	1.04–1.62	0.9	0.73–1.11	1.24	1.01–1.54	1.38	1.08–1.76
Externalizing	1.27	1.05–1.54	1.12	0.90–1.38	1.88	1.47–2.40	0.88	0.73–1.07	1.48	1.18–1.85	1.68	1.32–2.15
Anxious or depressed	1.10	0.91–1.32	1.15	0.93–1.41	1.10	0.86–1.39	1.04	0.86–1.26	1	0.8–1.25	0.96	0.75–1.22
Withdrawn or depressed	1.24	1.00–1.54	1.28	1.01–1.61	1.30	1.02–1.66	1.03	0.86–1.23	1.05	0.86–1.28	1.02	0.82–1.26
Peer substance use	2.01	1.39–2.92	0.74	0.42–1.27	4.78	3.04–7.52	0.37	0.22–0.62	2.38	1.76–3.21	6.5	3.56–11.85
Peer approval of substance use	0.81	0.64–1.03	0.87	0.65–1.15	0.48	0.37–0.62	1.07	0.83–1.36	0.59	0.49–0.72	0.56	0.43–0.72
Socioeconomic index for area	0.89	0.74–1.06	0.97	0.78–1.2	0.74	0.59–0.93	1.09	0.89–1.34	0.84	0.68–1.03	0.77	0.6–0.98