

Article title: Less inequality through universal access? Socioeconomic background of tertiary entrants in Australia after the expansion of university participation

Journal name: Higher Education

ONLINE RESOURCE 1 – Additional tables

Table A. Descriptive statistics. Post-secondary educational outcomes by socio-economic class, type of secondary school, geographical location and gender (row proportions in white shade, column proportions in light grey)

	<i>Sample proportion</i>	<i>Not studying</i>		<i>TAFE</i>		<i>Other Uni's</i>		<i>Go8</i>	
Parental occupation									
<i>2003</i>									
working class	28.3	36.2	50.5	32.0	23.1	21.4	20.6	12.6	5.8
lower service class	22.9	24.0	41.4	25.1	22.4	22.0	26.2	17.7	10.0
middle service class	36.6	31.3	33.8	34.3	19.1	41.8	31.1	45.5	16.0
upper service class	12.2	8.4	27.1	8.7	14.5	14.8	32.9	24.2	25.5
<i>2006</i>									
working class	27.4	35.2	49.1	34.0	22.8	21.0	22.2	11.1	5.9
lower service class	20.0	22.3	42.6	21.3	19.5	19.6	28.3	13.2	9.6
middle service class	34.6	30.3	33.4	31.9	16.9	38.9	32.5	41.1	17.2
upper service class	18.0	12.2	25.8	12.9	13.1	20.6	33.1	34.7	28.0
<i>2009</i>									
working class	25.6	33.6	44.7	32.2	20.9	20.7	27.1	11.9	7.4
lower service class	22.9	24.8	36.9	26.5	19.2	21.5	31.5	18.0	12.5
middle service class	38.1	34.4	30.8	33.2	14.5	42.0	36.9	42.8	17.8
upper service class	13.4	7.2	18.4	8.1	10.1	15.7	39.3	27.3	32.3
Parental education									
<i>2003</i>									
no university degree	57.3	70.2	48.3	63.8	22.8	47.4	22.6	28.4	6.4

2003									
female	51.2	42.2	32.5	56.9	22.7	59.3	31.5	52.9	13.3
male	48.8	57.8	46.7	43.2	18.1	40.8	22.8	47.1	12.5
2006									
female	52.3	43.0	31.4	58.9	20.7	59.7	33.1	53.3	14.8
male	47.7	57.0	45.5	41.1	15.8	40.3	24.4	46.7	14.2
2009									
female	55.4	46.0	28.3	60.1	18.0	61.9	37.4	56.9	16.3
male	44.6	54.0	41.3	39.9	14.9	38.1	28.6	43.1	15.3

Note:

^a All values in percentages. Values of the categories sum up to 100% in cells of the same shade.

^b Years indicate the LSAY cohorts.

Table B. The field of study composition of different types of tertiary education institutions (%)

Cohort:	2003					2006					2009				
	_lssel	general	_msel	_hsel	Total	_lssel	general	_msel	_hsel	Total	_lssel	general	_msel	_hsel	Total
TAFE	27.9	20.7	49.9	1.5	100	29.2	23.1	46.1	1.6	100	27.6	24.9	45.5	2.1	100
other	22.3	28.9	41.6	7.2	100	22.3	32.4	35.4	9.9	100	23.4	31.7	36.2	8.8	100
G8	7.4	38.7	40.0	13.9	100	6.3	47.1	33.4	13.3	100	6.7	47.0	32.9	13.4	100
Total proportion of the sample	12.7	17.1	26.7	4.1	60.6	12.7	20.5	23.6	5.1	61.8	13.5	22.2	24.9	5.4	65.9

Note:

^a Fields of study are pooled according to the level of their selectivity and disciplinary character: “lssel” - low selectivity – technical (e.g. nursing, roof fixing); “general” - low selectivity – social and natural sciences; “msel” - medium selectivity (e.g. business and economics, engineering, computer graphics); “hsel” - high selectivity (e.g. law and medicine). Classification is based on the Australian Standard Classification of Education (ASCED), last reviewed 18/09/2015. The full list of fields of study falling into each category is available on request.

Table C. Multinomial logistic regression results (the *khh* method)

TAFE vs. Not studying								
	VARIABLES	Parental education (higher)	Lower service class	Middle service class	Upper service class	Male	Non-metropolitan	Public school
2003	Total	1.333 (0.092)**	1.096 (0.087)	1.074 (0.083)	0.963 (0.116)	0.518 (0.031)**	0.560 (0.037)**	0.763 (0.050)**
	Direct	1.240 (0.085)**	1.040 (0.083)	0.980 (0.077)	0.863 (0.104)	0.528 (0.032)**	0.565 (0.038)**	0.810 (0.053)**
	Indirect	1.075 (0.021)**	1.054 (0.019)**	1.096 (0.023)**	1.117 (0.025)**	0.984 (0.017)	0.991 (0.016)	0.943 (0.017)**
	Confounding ratio	1.337	2.360	-3.978	0.253	1.035	1.016	1.281
	Confounding percentage (%)	25.2	57.2	128.5	-296.1	2.7	1.6	21.9
2006	Total	1.154 (0.085)	0.940 (0.082)	1.007 (0.082)	1.014 (0.110)	0.521 (0.033)**	0.657 (0.045)**	0.915 (0.062)
	Direct	1.098 (0.081)	0.911 (0.079)	0.955 (0.079)	0.946 (0.103)	0.522 (0.033)**	0.666 (0.045)**	0.946 (0.064)
	Indirect	1.050 (0.016)**	1.031 (0.013)*	1.053 (0.017)**	1.073 (0.021)**	0.997 (0.013)	0.985 (0.011)	0.967 (0.013)*
	Confounding ratio	1.525	0.669	-0.142	-0.264	1.008	1.037	1.619
	Confounding percentage (%)	34.4	-49.6	806.4	532.3	0.5	3.5	37.9
2009	Total	1.050 (0.085)	1.111 (0.102)	1.010 (0.090)	1.203 (0.175)	0.559 (0.039)**	0.749 (0.056)**	1.084 (0.081)
	Direct	1.011 (0.082)	1.088 (0.100)	0.975 (0.088)	1.135 (0.166)	0.560 (0.039)**	0.759 (0.056)**	1.109 (0.083)
	Indirect	1.039 (0.017)*	1.021 (0.011)	1.036 (0.016)*	1.060 (0.025)*	0.998 (0.011)	0.988 (0.009)	0.977 (0.011)
	Confounding ratio	5.138	1.246	-0.389	1.470	1.007	1.045	0.780
	Confounding percentage (%)	77.3	19.7	366.5	31.8	0.5	4.3	-28.5
Other uni vs. Not studying								
		Parental education (higher)	Lower service class	Middle service class	Upper service class	Male	Non-metropolitan	Public school
2003	Total	2.404 (0.160)**	1.343 (0.113)**	1.647 (0.131)**	1.958 (0.218)**	0.411 (0.025)**	0.670 (0.043)**	0.432 (0.027)**
	Direct	1.763 (0.117)**	1.072 (0.090)	1.110 (0.089)	1.217 (0.135)	0.450 (0.027)**	0.697 (0.045)**	0.558 (0.035)**
	Indirect	1.363 (0.095)**	1.253 (0.086)**	1.483 (0.104)**	1.609 (0.114)**	0.956 (0.066)	0.961 (0.066)	0.776 (0.054)**
	Confounding ratio	1.547	4.264	4.792	3.436	1.178	1.110	1.435
	Confounding percentage (%)	35.4	76.5	79.0	70.8	7.4	9.8	30.3
2006	Total	2.440 (0.161)**	1.282 (0.110)**	1.524 (0.121)**	1.899 (0.187)**	0.457 (0.027)**	0.621 (0.040)**	0.472 (0.029)**

	Direct	1.835 (0.121)**	1.072 (0.092)	1.127 (0.090)	1.264 (0.125)*	0.475 (0.028)**	0.679 (0.044)**	0.574 (0.035)**
	Indirect	1.330 (0.079)**	1.196 (0.070)**	1.353 (0.081)**	1.502 (0.091)**	1.005 (0.059)*	0.917 (0.054)	0.823 (0.049)**
	Confounding ratio	1.470	3.716	3.541	2.737	1.118	1.235	1.354
	Confounding percentage (%)	32.0	72.0	71.7	63.5	2.1	18.4	26.1
2009	Total	2.164 (0.148)**	1.302 (0.113)**	1.582 (0.128)**	2.585 (0.308)**	0.455 (0.028)**	0.662 (0.044)**	0.577 (0.037)**
	Direct	1.562 (0.106)**	1.089 (0.094)	1.165 (0.095)	1.558 (0.186)**	0.466 (0.029)**	0.736 (0.049)**	0.703 (0.044)**
	Indirect	1.386 (0.095)**	1.195 (0.081)**	1.358 (0.093)**	1.659 (0.117)**	1.017 (0.069)*	0.899 (0.061)	0.821 (0.056)**
	Confounding ratio	1.734	3.120	3.022	2.143	1.087	1.362	1.565
	Confounding percentage (%)	42.2	67.7	66.7	53.3	0.4	25.8	35.9
G8 vs. Not studying								
		Parental education (higher)	Lower service class	Middle service class	Upper service class	Male	Non-metropolitan	Public school
2003	Total	4.835 (0.442)**	1.629 (0.212)**	2.289 (0.274)**	3.625 (0.530)**	0.459 (0.037)**	0.354 (0.036)**	0.350 (0.029)**
	Direct	2.992 (0.271)**	1.149 (0.150)	1.243 (0.149)*	1.737 (0.254)**	0.530 (0.042)**	0.376 (0.038)**	0.518 (0.042)**
	Indirect	1.616 (0.173)**	1.418 (0.151)**	1.844 (0.199)**	2.091 (0.228)**	0.961 (0.103)	0.941 (0.100)	0.675 (0.072)**
	Confounding ratio	1.438	3.589	3.893	2.351	1.659	1.062	1.597
	Confounding percentage (%)	30.4	71.6	73.7	57.2	11.4	5.8	37.4
2006	Total	4.801 (0.432)**	1.651 (0.227)**	2.465 (0.300)**	4.776 (0.648)**	0.526 (0.042)**	0.297 (0.030)**	0.415 (0.034)**
	Direct	2.878 (0.256)**	1.198 (0.165)	1.432 (0.175)**	2.299 (0.311)**	0.581 (0.046)*	0.348 (0.035)**	0.590 (0.047)**
	Indirect	1.669 (0.178)**	1.379 (0.146)**	1.721 (0.183)**	2.078 (0.224)**	1.038 (0.110)*	0.856 (0.090)	0.704 (0.074)**
	Confounding ratio	1.485	2.811	2.511	1.878	2.403	1.153	1.674
	Confounding percentage (%)	32.6	64.0	60.2	46.8	4.1	12.9	39.9
2009	Total	4.558 (0.426)**	1.828 (0.243)**	2.220 (0.271)**	6.061 (0.928)**	0.494 (0.041)**	0.304 (0.032)**	0.460 (0.039)**
	Direct	2.549 (0.235)**	1.329 (0.177)*	1.287 (0.157)*	2.456 (0.374)**	0.528 (0.044)**	0.368 (0.038)**	0.654 (0.055)**
	Indirect	1.790 (0.218)**	1.375 (0.166)**	1.726 (0.210)**	2.468 (0.305)**	1.054 (0.127)*	0.829 (0.100)	0.704 (0.085)**
	Confounding ratio	1.623	2.121	3.185	2.007	1.563	1.193	1.843
	Confounding	38.3	52.8	68.4	50.2	-0.2	15.9	45.3

	percentage (%)							
Other uni vs. TAFE								
		Parental education (higher)	Lower service class	Middle service class	Upper service class	Male	Non-metropolitan	Public school
2003	Total	1.804 (0.132)**	1.225 (0.114)*	1.533 (0.135)**	2.033 (0.255)**	0.793 (0.053)**	1.196 (0.090)*	0.567 (0.039)**
	Direct	1.422 (0.103)**	1.030 (0.096)	1.133 (0.100)	1.411 (0.178)**	0.844 (0.056)**	1.233 (0.092)**	0.688 (0.047)**
	Indirect	1.268 (0.068)**	1.189 (0.063)**	1.353 (0.074)**	1.441 (0.080)**	0.964 (0.051)	0.971 (0.051)	0.823 (0.044)**
	Confounding ratio	1.675	6.990	3.455	2.064	-1.251	0.857	1.521
	Confounding percentage (%)	40.3	85.2	70.8	51.5	20.4	-16.8	34.2
2006	Total	2.115 (0.162)**	1.364 (0.134)**	1.514 (0.138)**	1.872 (0.213)**	0.879 (0.061)	0.947 (0.072)	0.516 (0.037)**
	Direct	1.671 (0.127)**	1.177 (0.116)	1.179 (0.108)	1.337 (0.153)*	0.904 (0.063)*	1.019 (0.077)	0.607 (0.043)**
	Indirect	1.266 (0.064)**	1.160 (0.057)**	1.284 (0.065)**	1.401 (0.073)**	1.002 (0.049)*	0.930 (0.045)	0.851 (0.042)**
	Confounding ratio	1.460	1.917	2.520	2.160	0.035	-0.207	1.326
	Confounding percentage (%)	31.5	47.6	60.3	53.7	10.4	134.1	24.5
2009	Total	2.061 (0.169)**	1.171 (0.117)	1.566 (0.150)**	2.149 (0.305)**	0.815 (0.060)**	0.883 (0.071)	0.533 (0.040)**
	Direct	1.545 (0.126)**	1.000 (0.100)	1.195 (0.115)	1.373 (0.196)*	0.827 (0.062)*	0.970 (0.077)	0.634 (0.048)**
	Indirect	1.334 (0.082)**	1.171 (0.070)**	1.310 (0.080)**	1.564 (0.100)**	1.015 (0.061)*	0.910 (0.054)	0.840 (0.051)**
	Confounding ratio	1.665	-40.777	2.520	2.412	-1.432	8.234	1.383
	Confounding percentage (%)	39.9	99.8	60.3	58.5	0.2	75.2	27.6
G8 vs. TAFE								
		Parental education (higher)	Lower service class	Middle service class	Upper service class	Male	Non-metropolitan	Public school
2003	Total	3.629 (0.348)**	1.486 (0.201)**	2.131 (0.266)**	3.763 (0.589)**	0.885 (0.074)	0.633 (0.068)**	0.458 (0.039)**
	Direct	2.414 (0.230)**	1.105 (0.149)	1.269 (0.159)*	2.014 (0.315)**	0.989 (0.083)**	0.666 (0.071)**	0.639 (0.054)**
	Indirect	1.504 (0.138)**	1.346 (0.122)**	1.683 (0.156)**	1.873 (0.176)**	0.965 (0.089)*	0.950 (0.085)	0.717 (0.065)**
	Confounding ratio	1.463	4.243	3.268	1.905	0.242	1.127	1.745
	Confounding percentage (%)	31.6	74.9	68.5	47.2	63.0	11.2	42.7
2006	Total	4.162 (0.406)**	1.756 (0.255)**	2.449 (0.316)**	4.709 (0.692)**	1.011 (0.087)	0.452 (0.049)**	0.454 (0.040)**

	Direct	2.620 (0.253)**	1.314 (0.191)	1.499 (0.194)**	2.431 (0.356)**	1.098 (0.095)*	0.522 (0.057)**	0.624 (0.055)**
	Indirect	1.589 (0.153)**	1.337 (0.128)**	1.633 (0.158)**	1.937 (0.191)**	1.030 (0.099)*	0.869 (0.083)	0.728 (0.070)**
	Confounding ratio	1.481	2.069	2.212	1.744	-0.100	1.228	1.681
	Confounding percentage (%)	32.5	51.5	54.8	42.7	-889.7	18.0	40.2
2009	Total	4.341 (0.449)**	1.645 (0.233)**	2.199 (0.290)**	5.038 (0.862)**	0.884 (0.080)	0.406 (0.046)**	0.424 (0.040)**
	Direct	2.521 (0.258)**	1.221 (0.173)	1.320 (0.174)*	2.164 (0.369)**	0.934 (0.086)**	0.485 (0.055)**	0.589 (0.055)**
	Indirect	1.723 (0.197)**	1.347 (0.152)**	1.666 (0.190)**	2.328 (0.272)**	1.049 (0.118)*	0.839 (0.094)	0.720 (0.081)**
	Confounding ratio	1.590	2.495	2.848	2.096	0.086	1.250	1.627
	Confounding percentage (%)	37.0	59.8	64.8	52.3	-28.7	19.6	38.3
G8 vs. Other uni								
		Parental education (higher)	Lower service class	Middle service class	Upper service class	Male	Non-metropolitan	Public school
2003	Total	2.011 (0.176)**	1.213 (0.158)	1.389 (0.165)**	1.852 (0.255)**	1.117 (0.084)	0.529 (0.052)**	0.809 (0.062)**
	Direct	1.697 (0.148)**	1.072 (0.139)	1.119 (0.133)	1.427 (0.197)**	1.148 (0.087)*	0.540 (0.053)**	0.929 (0.070)
	Indirect	1.185 (0.048)**	1.132 (0.044)**	1.243 (0.053)**	1.299 (0.058)**	0.985 (0.039)*	0.979 (0.037)	0.870 (0.034)**
	Confounding ratio	1.322	3.024	3.094	1.754	2.167	1.034	2.892
	Confounding percentage (%)	24.2	64.0	65.5	42.3	-14.8	3.3	65.1
2006	Total	1.968 (0.168)**	1.288 (0.176)	1.618 (0.194)**	2.515 (0.324)**	1.151 (0.085)	0.477 (0.047)**	0.879 (0.067)
	Direct	1.568 (0.133)**	1.117 (0.153)	1.272 (0.153)*	1.818 (0.234)**	1.180 (0.088)	0.512 (0.050)**	1.028 (0.077)
	Indirect	1.255 (0.062)**	1.153 (0.055)**	1.272 (0.063)**	1.383 (0.072)**	1.002 (0.048)*	0.934 (0.044)	0.856 (0.041)**
	Confounding ratio	1.504	2.293	2.002	1.542	-1.721	1.106	-10.764
	Confounding percentage (%)	33.5	56.2	50.0	35.2	-10.0	9.4	121.2
2009	Total	2.106 (0.179)**	1.405 (0.180)**	1.404 (0.164)**	2.345 (0.313)**	1.086 (0.081)	0.460 (0.045)**	0.797 (0.061)**
	Direct	1.631 (0.138)**	1.221 (0.157)	1.105 (0.129)	1.576 (0.210)**	1.100 (0.083)	0.500 (0.049)**	0.930 (0.070)
	Indirect	1.291 (0.072)**	1.150 (0.062)**	1.271 (0.070)**	1.488 (0.088)**	1.009 (0.054)*	0.920 (0.049)	0.857 (0.046)**
	Confounding ratio	1.523	1.702	3.456	1.875	0.914	1.121	3.399
	Confounding	34.3	41.2	70.7	46.6	-45.0	10.7	68.0

	percentage (%)							
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Note:

^a Sig. Levels: * $p < .05$. ** $p < .01$; coefficients are odds ratios; standard errors in parentheses.

^b Pseudo- $R^2=0.13$ for the 2003 model, 0.14 for the other.

^c “Confounding percentage” and “Confounding ratios” show how much of the total effect is due to confounding of the mediating variable (academic ability) included in the model.

^d Years indicate the LSAY cohorts.

^e For parental education, no parent with higher education degree is the reference category; for parental occupation – working class; for metropolitan location – a location in a city of less than 100,000 inhabitants; for private secondary schools – public ones.

Table D. Average partial effects of socioeconomic factors on probability of four post-secondary educational outcomes

	Effects	2003				2006				2009			
		Not studying	TAFE	Other uni	G8	Not studying	TAFE	Other uni	G8	Not studying	TAFE	Other uni	G8
Parental education (higher)	Total	-14.5%**	-3.5%**	7.6%**	10.4%**	-14.3%**	-5.4%**	8.6%**	11.1%**	-12.3%**	-5.8%**	6.5%**	11.7%**
	Direct	-9.8%**	-1.9%	4.3%**	7.4%**	-9.6%**	-3.7%**	5.9%**	7.4%**	-7.1%**	-3.6%**	3.4%**	7.3%**
	Indirect	-4.7%	-1.6%	3.2%	3.1%	-4.7%	-1.8%	2.7%	3.8%	-5.2%	-2.2%	3.1%	4.3%
Lower service class	Total	-4.6%**	-0.9%	2.8%*	2.6%**	-3.1%*	-3.0%*	2.9%*	3.1%**	-5.0%**	-0.8%	1.7%	4.1%**
	Direct	-1.3%	0.0%	0.4%	0.9%	-0.4%	-2.0%	1.0%	1.4%	-2.2%	0.3%	-0.4%	2.3%
	Indirect	-3.3%	-0.9%	2.4%	1.8%	-2.7%	-1.0%	2.0%	1.7%	-2.8%	-1.0%	2.0%	1.8%
Middle service class	Total	-7.0%**	-3.1%**	5.2%**	5.0%**	-6.4%**	-3.6%**	3.9%**	6.1%**	-6.8%**	-3.4%**	5.0%**	5.1%**
	Direct	-1.3%	-1.3%	1.0%	1.5%	-1.7%	-1.9%	0.8%	2.8%**	-2.0%	-1.5%	1.8%	1.7%
	Indirect	-5.8%	-1.8%	4.1%	3.4%	-4.7%	-1.7%	3.2%	3.2%	-4.8%	-1.9%	3.2%	3.5%
Upper service class	Total	-9.2%**	-6.5%**	6.3%**	9.4%**	-10.7%**	-5.9%**	3.9%*	12.7%**	-15.3%**	-5.4%**	6.8%**	14.0%**
	Direct	-2.1%	-4.3%**	1.6%	4.8%**	-4.2%*	-3.5%*	0.2%	7.5%**	-7.5%**	-2.1%	2.6%	7.0%**
	Indirect	-7.2%	-2.2%	4.7%	4.6%	-6.5%	-2.4%	3.7%	5.2%	-7.8%	-3.4%	4.2%	6.9%
Male	Total	15.3%**	-4.4%**	-9.1%**	-1.9%**	14.1%**	-4.7%**	-8.4%**	-1.1%	13.5%**	-2.9%**	-8.9%**	-1.7%*
	Direct	14.3%**	-4.6%**	-8.4%**	-1.3%*	13.9%**	-4.7%**	-8.2%**	-0.9%**	13.4%**	-2.9%*	-8.9%**	-1.6%*

	<i>Indirect</i>	<i>1.0%</i>	<i>0.2%</i>	<i>-0.7%</i>	<i>-0.5%</i>	<i>0.3%</i>	<i>0.1%</i>	<i>-0.2%</i>	<i>-0.2%</i>	<i>0.1%</i>	<i>0.0%</i>	<i>0.0%</i>	<i>-0.1%</i>
Non-metro-politan	Total	11.3%**	-5.2%**	0.1%	-6.2%**	11.3%**	-2.0%*	-1.3%	-8.0%**	9.3%**	-0.2%	-0.3%	-8.8%**
	Direct	10.7%**	-5.4%**	0.5%	-5.9%**	9.9%**	-2.4%**	-0.4%	-7.1%**	7.6%**	-0.8%	0.9%	-7.7%**
	<i>Indirect</i>	<i>0.6%</i>	<i>0.1%</i>	<i>-0.4%</i>	<i>-0.3%</i>	<i>1.4%</i>	<i>0.4%</i>	<i>-0.9%</i>	<i>-0.9%</i>	<i>1.7%</i>	<i>0.6%</i>	<i>-1.1%</i>	<i>-1.1%</i>
Public school	Total	12.3%**	2.4%**	-9.1%**	-5.6%**	10.2%**	4.1%**	-9.5%**	-4.8%**	6.9%**	5.0%**	-6.9%**	-5.1%**
	Direct	8.6%**	1.1%	-6.6%**	-3.1%**	7.1%**	2.9%**	-7.7%**	-2.3%**	3.9%**	3.8%**	-5.1%**	-2.5%**
	<i>Indirect</i>	<i>3.8%</i>	<i>1.3%</i>	<i>-2.5%</i>	<i>-2.5%</i>	<i>3.1%</i>	<i>1.1%</i>	<i>-1.8%</i>	<i>-2.5%</i>	<i>3.1%</i>	<i>1.3%</i>	<i>-1.8%</i>	<i>-2.5%</i>

Note:

^a Sig. Levels: * $p < .05$. ** $p < .01$; coefficients are average partial effects.

^b Pseudo- R^2 =0.13 for the 2003 model, 0.14 for the other.

^c Years indicate the LSAY cohorts.

^d For parental education, no parent with higher education degree is the reference category; for parental occupation – working class; for non-metropolitan location – a location in a city of more than 100,000 inhabitants; for public secondary schools – private ones.

^e Standard errors of difference are not estimated for APE in the *knb* method, hence the statistical significance of indirect effects cannot be shown.