11. Correlation analysis

A correlation analysis has been undertaken to illustrate the extent of association at the SLA level between socioeconomic status and the other indicators mapped: see box. Socioeconomic status is measured here using the Index of Relative Socio-economic Disadvantage (IRSD – covers both males and females), full-time education participation at age 16 and unemployment (these latter two are based on data for men only). Note that as the IRSD is calculated such that low scores (below 1000) reflect relative disadvantage, and high scores (above 1000) reflect relative advantage, negative (or inverse) correlations between the IRSD and other variables indicate a positive association with socioeconomic disadvantage.

In the following tables, the correlations are based on data for men, unless noted.

Metropolitan Adelaide

There are very strong correlations between men living in socioeconomically disadvantaged areas (as indicated by the IRSD) and their use of the following health services: community health and community mental health services, Child and Adolescent Mental Health Services clinics, SA Dental Service and GPs.

Strong correlations were recorded between socioeconomic disadvantage and men attending public hospital Emergency Departments, or admitted to a hospital for circulatory system diseases or respiratory system diseases. Avoidable hospitalisations of men had a strong correlation with socioeconomic disadvantage, and those for diabetes complications had a very strong correlation.

Both of the chronic diseases for which prevalence estimates were available for men were very strongly correlated with socioeconomic disadvantage – they were the prevalence of mental and behavioural disorders and of mood (affective) disorders.

Of the health risk factor for which data were available, smoking and obesity were both very strongly correlated with socioeconomic disadvantage, while the proportion of the male population who were overweight showed a very weak correlation with areas of high socioeconomic status.

The incidence of lung cancer among the male population is also strongly correlated with socioeconomic disadvantage.

Many of the correlations noted above with the IRSD are similarly strong with the variables for full-time education participation at age 16 (high rates of service use and poor outcomes inversely correlated

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Correlation is the degree to which one variable is statistically associated with another. The correlation coefficient is a measure of the strength of this association. When high values for one variable are matched by high values for the other (or when low values are matched by low values), then they are positively correlated. Where the interdependence is inverse (i.e. high values for one are matched by low values for the other), the two variables are negatively correlated.

The Pearson product-moment correlation (r) has been used in this analysis to indicate the degree of correlation between pairs of variables. Pearson correlation coefficients range from +1 (complete positive correlation) through 0 (complete lack of correlation) to –1 (complete negative correlation). As a general rule, correlations of plus or minus 0.50 or above are considered to be of meaningful statistical significance (referred to in the text as 'strong'). Correlations of plus or minus 0.71 or above are of substantial statistical significance, because this higher value represents at least 50% shared variation (r^2 greater than or equal to 0.5): these are referred to as being 'very strong' correlations. Correlations just below plus or minus 0.50 are referred to in the text as being 'moderate'; and those below plus or minus 0.30 are referred to as 'weak'.

Correlation coefficients were calculated by comparing the value (expressed as a percentage or as a standardised ratio) for each variable in each SLA with the value of each of the other variables. Correlation coefficients are generally referred to as being, for example, 'a correlation of low income families with the paired variable of hospital admissions of females'. However, to promote ease of reading where many correlation coefficients are quoted in the text, the word 'paired' has been omitted. For similar reasons, the symbol used to indicate a correlation coefficient (r) has been omitted.

The results of the correlation analysis, which was undertaken separately for Metropolitan Adelaide and country South Australia, are shown in the following table: coefficients from 0.5 to 0.7 and from 0.71 to 1 (both positive and negative) are highlighted in the table.

with high rates of education participation) and unemployment (high rates of service use and poor outcomes correlated with high rates of unemployment).

Country SA

There are fewer indicators in country South Australia with sufficient data to undertake the correlation analysis, and many of the correlations

are quite weak, in part because of the relatively small number of cases in these low-population areas.

There are strong correlations between socioeconomic disadvantage and high death rates from premature causes (all cause deaths and deaths from circulatory system diseases) and avoidable causes (each of these categories includes deaths before 75 years of age). A similar relationship exists between areas with high unemployment rates high rates of attendance of adults at SADS clinics; as well as admissions for mental and behavioural problems.

There is also a strong correlation between high rates of participation in full-time education at age 16 and socioeconomic advantage.

Table 11.1: Correlation coeficients for SLAs in Metro Adelaide

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	V35	
V1	1.00	0.51	0.66	0.62	0.08	0.56	0.76	0.45	0.71	0.23	0.59	0.21	-0.27	0.29	0.70	0.61	-0.10	0.26	0.10	0.16	0.70	0.82	0.79	0.73	0.81	-0.41	0.74	-0.06	-0.18	0.56	-0.32	-0.73	0.71	0.80	-0.86	V1
V2	0.51	1.00	0.51	0.63	0.61	0.13	0.70	-0.01	0.67	0.06	0.44	0.21	-0.20	0.76	0.31	0.30	-0.25	0.36	-0.21	0.47	0.43	0.46	0.81	0.82	0.67	-0.04	0.58	0.27	0.19	0.47	-0.09	-0.72	0.75	0.79	-0.75	V2
V3	0.66	0.51	1.00	0.51	0.14	0.50	0.75	0.24	0.54	0.00	0.55	-0.04	-0.31	0.41	0.23	0.27	-0.26	0.06	0.06	0.26	0.28	0.40	0.67	0.63	0.69	-0.27	0.56	0.03	0.09	0.51	-0.30	-0.63	0.55	0.68	-0.75	V3
V4	0.62	0.63	0.51	1.00	0.12	0.34	0.62	0.26	0.65	0.16	0.34	-0.03	-0.41	0.25	0.26	0.46	-0.35	0.06	-0.03	0.10	0.42	0.58	0.68	0.71	0.75	-0.19	0.67	0.08	0.08	0.62	-0.22	-0.69	0.57	0.67	-0.80	V4
V5	0.08	0.61	0.14	0.12	1.00	-0.12	0.40	-0.37	0.36	0.07	0.47	0.17	0.02	0.65	0.10	0.04	-0.18	0.21	-0.34	0.45	0.18	0.13	0.41	0.39	0.27	0.12	0.18	0.21	0.17	0.21	0.10	-0.37	0.43	0.35	-0.23	V5
V6	0.56	0.13	0.50	0.34	-0.12	1.00	0.50	0.30	0.42	0.27	0.52	0.12	-0.11	0.03	0.37	0.33	0.11	0.01	-0.06	-0.21	0.32	0.41	0.47	0.34	0.60	-0.25	0.56	-0.07	-0.02	0.31	-0.27	-0.44	0.22	0.35	-0.49	V6
V7	0.76	0.70	0.75	0.62	0.40	0.50	1.00	0.29	0.80	0.05	0.74	0.16	-0.32	0.50	0.48	0.49	-0.17	0.20	-0.08	0.27	0.53	0.65	0.85	0.82	0.87	-0.30	0.75	0.06	0.07	0.69	-0.33	-0.77	0.67	0.76	-0.86	V7
V8	0.45	-0.01	0.24	0.26	-0.37	0.30	0.29	1.00	0.29	-0.09	0.01	0.12	-0.18	-0.06	0.52	0.38	0.05	-0.05	0.19	0.07	0.39	0.46	0.20	0.16	0.32	-0.50	0.28	-0.21	-0.09	0.35	-0.30	-0.25	0.07	0.13	-0.35	V8
V9	0.71	0.67	0.54	0.65	0.36	0.42	0.80	0.29	1.00	0.14	0.51	0.07	-0.31	0.41	0.46	0.35	-0.21	0.10	-0.19	0.19	0.46	0.66	0.85	0.78	0.86	-0.10	0.77	0.10	-0.06	0.68	-0.17	-0.77	0.72	0.75	-0.83	V9
V10	0.23	0.06	0.00	0.16	0.07	0.27	0.05	-0.09	0.14	1.00	0.12	-0.01	0.00	-0.04	0.11	-0.05	-0.05	-0.03	-0.09	-0.22	0.03	0.12	0.09	0.02	0.18	-0.05	0.11	0.16	0.05	0.19	-0.02	-0.08	0.00	0.05	-0.09	V10
V11	0.59	0.44	0.55	0.34	0.47	0.52	0.74	0.01	0.51	0.12	1.00	0.20	-0.20	0.45	0.44	0.42	-0.03	0.26	-0.14	0.05	0.50	0.50	0.68	0.58	0.68	-0.05	0.61	-0.12	0.05	0.42	-0.25	-0.59	0.55	0.61	-0.58	V11
V12	0.21	0.21	-0.04	-0.03	0.17	0.12	0.16	0.12	0.07	-0.01	0.20	1.00	0.53	0.31	0.53	0.58	0.71	0.72	0.31	0.12	0.70	0.42	0.21	0.09	0.12	-0.15	0.17	-0.07	0.00	-0.04	-0.11	-0.29	0.16	0.15	-0.11	V12
V13	-0.27	-0.20	-0.31	-0.41	0.02	-0.11	-0.32	-0.18	-0.31	0.00	-0.20	0.53	1.00	0.05	0.11	0.00	0.39	0.09	0.08	-0.01	0.08	-0.08	-0.22	-0.29	-0.32	0.23	-0.21	0.28	0.29	-0.33	0.29	0.26	-0.25	-0.29	0.36	V13
V14	0.29	0.76	0.41	0.25	0.65	0.03	0.50	-0.06	0.41	-0.04	0.45	0.31	0.05	1.00	0.36	0.17	-0.20	0.29	-0.37	0.51	0.34	0.21	0.61	0.55	0.41	0.06	0.36	0.26	0.38	0.18	0.00	-0.51	0.62	0.59	-0.47	V14
V15	0.70	0.31	0.23	0.26	0.10	0.37	0.48	0.52	0.46	0.11	0.44	0.53	0.11	0.36	1.00	0.65	0.15	0.37	0.07	0.21	0.77	0.73	0.52	0.45	0.53	-0.35	0.53	-0.05	0.01	0.29	-0.29	-0.46	0.43	0.46	-0.54	V15
V16	0.61	0.30	0.27	0.46	0.04	0.33	0.49	0.38	0.35	-0.05	0.42	0.58	0.00	0.17	0.65	1.00	0.27	0.50	0.32	0.09	0.87	0.71	0.46	0.39	0.52	-0.37	0.51	-0.06	-0.06	0.35	-0.37	-0.50	0.37	0.44	-0.54	V16
V17	-0.10	-0.25	-0.26	-0.35	-0.18	0.11	-0.17	0.05	-0.21	-0.05	-0.03	0.71	0.39	-0.20	0.15	0.27	1.00	0.52	0.48	-0.16	0.28	0.07	-0.22	-0.34	-0.23	-0.13	-0.15	-0.33	-0.28	-0.21	-0.08	0.11	-0.23	-0.25	0.29	V17
V18	0.26	0.36	-0.35	0.06	0.21	0.01	0.20	-0.05	0.10	-0.03	0.26	0.72	0.09	0.29	0.37	0.50	0.52	1.00	0.38	0.21	0.58	0.33	0.26	0.22	0.14	-0.23	0.13	-0.11	-0.24	-0.01	-0.13	-0.41	0.26	0.30	-0.21	V18
V19	0.10	-0.21	0.06	-0.03	-0.34	-0.06	-0.08	0.19	-0.19	-0.09	-0.14	0.31	0.08	-0.37	0.07	0.32	0.48	0.38	1.00	-0.02	0.22	0.23	-0.18	-0.16	-0.08	-0.28	-0.03	-0.27	-0.19	-0.14	-0.27	-0.03	-0.17	-0.13	0.03	V19
V20	0.16	0.47	0.26	0.10	0.45	-0.21	0.27	0.07	0.19	-0.22	0.05	0.12	-0.01	0.51	0.21	0.09	-0.16	0.21	-0.02	1.00	0.16	0.09	0.29	0.32	0.14	-0.19	0.08	0.13	0.08	0.13	-0.08	-0.32	0.35	0.35	-0.28	V20
V21	0.70	0.43	0.28	0.42	0.18	0.32	0.53	0.39	0.46	0.03	0.50	0.70	0.08	0.34	0.77	0.87	0.28	0.58	0.22	0.16	1.00	0.83	0.61	0.54	0.58	-0.34	0.57	-0.18	-0.04	0.35	-0.34	-0.60	0.57	0.60	-0.62	V21
V22	0.82	0.46	0.40	0.58	0.13	0.41	0.65	0.46	0.66	0.12	0.50	0.42	-0.08	0.21	0.73	0.71	0.07	0.33	0.23	0.09	0.83	1.00	0.70	0.69	0.77	-0.34	0.77	-0.10	-0.08	0.51	-0.35	-0.67	0.60	0.66	-0.77	V22
V23	0.79	0.81	0.67	0.68	0.41	0.47	0.85	0.20	0.85	0.09	0.68	0.21	-0.22	0.61	0.52	0.46	-0.22	0.26	-0.18	0.29	0.61	0.70	1.00	0.93	0.92	-0.02	0.85	0.14	0.08	0.67	-0.19	-0.84	0.87	0.93	-0.93	V23
V24	0.73	0.82	0.63	0.71	0.39	0.34	0.82	0.16	0.78	0.02	0.58	0.09	-0.29	0.55	0.45	0.39	-0.36	0.22	-0.16	0.32	0.54	0.69	0.93	1.00	0.86	-0.08	0.80	0.20	0.11	0.62	-0.17	-0.78	0.81	0.89	-0.92	V24
V25	0.81	0.67	0.69	0.75	0.27	0.60	0.87	0.32	0.86	0.18	0.68	0.12	-0.32	0.41	0.53	0.52	-0.23	0.14	-0.08	0.14	0.58	0.77	0.92	0.86	1.00	-0.17	0.92	0.01	0.05	0.69	-0.32	-0.82	0.70	0.80	-0.94	V25
V26	-0.41	-0.04	-0.27	-0.19	0.12	-0.25	-0.30	-0.50	-0.10	-0.05	-0.05	-0.15	0.23	0.06	-0.35	-0.37	-0.13	-0.23	-0.28	-0.19	-0.34	-0.34	-0.02	-0.08	-0.17	1.00	-0.01	0.29	0.27	-0.05	0.43	0.23	-0.02	-0.12	0.26	V26
V27	0.74	0.58	0.56	0.67	0.18	0.56	0.75	0.28	0.77	0.11	0.61	0.17	-0.21	0.36	0.53	0.51	-0.15	0.13	-0.03	0.08	0.57	0.77	0.85	0.80	0.92	-0.01	1.00	0.06	0.09	0.57	-0.22	-0.71	0.60	0.70	-0.85	V27
V28	-0.06	0.27	0.03	0.08	0.21	-0.07	0.06	-0.21	0.10	0.16	-0.12	-0.07	0.28	0.26	-0.05	-0.20	-0.33	-0.11	-0.27	0.13	-0.18	-0.10	0.14	0.20	0.01	0.29	0.06	1.00	0.52	0.20	0.68	0.02	0.08	0.04	-0.04	V28
V29	-0.18	0.19	0.09	0.08	0.17	-0.02	0.07	-0.09	-0.06	0.05	0.05	0.00	0.29	0.38	0.01	-0.06	-0.28	-0.24	-0.19	0.08	-0.04	-0.08	0.08	0.11	0.05	0.27	0.09	0.52	1.00	0.03	0.17	0.12	0.01	-0.03	-0.01	V29
V30	0.56	0.47	0.51	0.62	0.21	0.31	0.69	0.35	0.68	0.19	0.42	-0.04	-0.33	0.29	0.18	0.35	-0.21	-0.01	-0.14	0.13	0.35	0.51	0.67	0.62	0.69	-0.05	0.57	0.20	0.03	1.00	-0.06	-0.55	0.54	0.57	-0.66	V30
V31	-0.32	-0.09	-0.30	-0.22	0.10	-0.27	-0.33	-0.30	-0.17	-0.02	-0.25	-0.11	0.29	0.00	-0.29	-0.37	-0.08	-0.13	-0.27	-0.08	-0.34	-0.35	-0.19	-0.17	-0.32	0.43	-0.22	0.68	0.17	-0.06	1.00	0.25	-0.14	-0.24	0.33	V31
V32	-0.73	-0.72	-0.63	-0.69	-0.37	-0.44	-0.77	-0.25	-0.77	-0.08	-0.59	-0.29	0.26	-0.51	-0.46	-0.50	0.11	-0.41	-0.03	-0.32	-0.60	-0.67	-0.84	-0.78	-0.82	0.23	-0.71	0.02	0.12	-0.55	0.25	1.00	-0.73	-0.81	0.86	V32
V33	0.71	0.75	0.55	0.57	0.43	0.22	0.67	0.07	0.72	0.00	0.55	0.16	-0.25	0.62	0.43	0.37	-0.23	0.26	-0.17	0.35	0.57	0.60	0.87	0.81	0.70	-0.02	0.60	0.08	0.01	0.54	-0.14	-0.73	1.00	0.95	-0.79	V33
V34	0.80	0.79	0.68	0.67	0.35	0.35	0.76	0.13	0.75	0.05	0.61	0.15	-0.29	0.59	0.46	0.44	-0.25	0.30	-0.13	0.35	0.60	0.66	0.93	0.89	0.80	-0.12	0.70	0.04	-0.03	0.57	-0.24	-0.81	0.95	1.00	-0.90	V34
V35	-0.86	-0.75	-0.75	-0.80	-0.23	-0.49	-0.86	-0.35	-0.83	-0.09	-0.58	-0.11	0.36	-0.47	-0.54	-0.54	0.29	-0.21	0.03	-0.28	-0.62	-0.77	-0.93	-0.92	-0.94	0.26	-0.85	-0.04	-0.01	-0.66	0.33	0.86	-0.79	-0.90	1.00	V35
V36	0.41	0.54	0.61	0.62	0.09	0.32	0.54	0.21	0.54	0.03	0.27	-0.24	-0.33	0.37	0.20	0.15	-0.54	0.13	-0.15	0.19	0.37	0.58	0.66	0.65	0.64	-0.10	0.62	0.23	0.35	0.38	-0.21	-0.50	0.41	0.51	-0.70	V36
V37	0.61	0.87	0.59	0.70	0.47	0.18	0.77	0.16	0.74	0.00	0.42	0.10	-0.27	0.61	0.33	0.39	-0.35	0.23	-0.17	0.41	0.45	0.58	0.81	0.87	0.77	-0.14	0.66	0.24	0.12	0.60	-0.17	-0.74	0.72	0.78	-0.83	V37
V38	0.55	0.66	0.53	0.68	0.22	0.25	0.66	0.30	0.67	0.10	0.29	0.09	-0.18	0.36	0.32	0.35	-0.23	0.12	0.07	0.24	0.33	0.57	0.66	0.72	0.70	-0.11	0.66	0.35	0.20	0.59	-0.10	-0.63	0.47	0.54	-0.72	V38
V39	0.57	0.81	0.52	0.67	0.44	0.21	0.69	0.15	0.73	-0.01	0.42	0.11	-0.24	0.58	0.37	0.40	-0.34	0.19	-0.25	0.31	0.47	0.56	0.79	0.82	0.75	-0.10	0.63	0.22	0.19	0.57	-0.14	-0.68	0.70	0.73	-0.78	V39
V40	0.17	0.41	0.10	0.29	0.14	-0.17	0.36	0.09	0.29	-0.24	-0.02	0.04	-0.31	0.15	0.01	0.21	-0.15	0.14	0.00	0.19	0.21	0.25	0.39	0.23	0.23	-0.17	0.18	-0.02	-0.16	0.21	-0.18	-0.28	0.29	0.30	-0.32	V40
V41	0.51	0.63	0.50	0.31	0.51	0.20	0.58	0.03	0.45	0.02	0.48	0.24	-0.14	0.53	0.29	0.27	-0.07	0.44	-0.11	0.51	0.41	0.39	0.59	0.57	0.50	-0.30	0.41	0.05	-0.18	0.34	-0.18	-0.60	0.55	0.62	-0.55	V41
V42	0.47	0.83	0.55	0.65	0.48	0.06	0.67	0.01	0.65	0.00	0.38	-0.09	-0.30	0.64	0.17	0.26	-0.53	0.08	-0.30	0.39	0.32	0.42	0.76	0.80	0.67	0.02	0.56	0.23	0.21	0.54	-0.11	-0.64	0.74	0.77	-0.75	V42
V43	0.61	0.88	0.60	0.70	0.48	0.20	0.78	0.19	0.73	0.03	0.46	0.12	-0.24	0.64	0.37	0.42	-0.35	0.23	-0.18	0.42	0.47	0.57	0.83	0.85	0.78	-0.15	0.66	0.27	0.18	0.64	-0.16	-0.76	0.72	0.78	-0.83	V43
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	V35	

Figures highlighted thus [ ] indicate correlations of strong significance between the appropriate variables in the matrix; those highlighted thus [■] indicate correlations of very strong significance

Community services	Community health services	V1
	Community mental health services	V2
	CAMHS	V3
Home and community care services	Domcare	V4
	RDNS	V5
Dental services	Dental child participation	V6
	Dental adult participation	V7
	12 year olds with decay	V8
GP services - men and women	GP services	V9
- men and women	45 year old health check	V10
ED admissions - men and women	Emergency department admissions	V11
Hospital admissions	Total hospital admissions	V12
	Hospital admissions for cancer	V13
	Hospital admissions for mental conditions	V14
	Hospital admissions for circulatory conditions	V15
	Hospital admissions for respiratory conditions	V16
	Hospital admissions for musculoskeletal conditions	V17
	Hospital admissions for injury and external causes	V18
	Hospital admissions for tonsillectomy	V19

Hospital admissions	Indigenous hospitalisations total	V20
Avoidable hospitalisations	Avoidable hospitalisations - Total	V21
	Avoidable hospitalisations - Diabetes complications	V22
Prevalence of selected chronic diseases	Estimates of mental and behavioural disorders	V23
	Estimates of mood (affective) disorders	V24
Prevalence of selected health risk factors	Smoking 18+	V25
	Overweight (not obese)	V26
	Obese	V27
Cancer incidence	Total cancer	V28
	Colorectal cancer	V29
	Lung cancer	V30
	Prostate cancer	V31
Education participation	Aged 16 years participating in full-time secondary education	V32
Unemployment	Youth	V33
	All ages	V34
IRSD - men and women	Index of Relative Socio-economic Disadvantage	V35

Table 11.1: Correlation coeficients for SLAs in Metro Adelaide ... *cont* .

	V36	V37	V38	V39	V40	V41	V42	V43	
V1	0.41	0.61	0.55	0.57	0.17	0.51	0.47	0.61	V1
V2	0.54	0.87	0.66	0.81	0.41	0.63	0.83	0.88	V2
V3	0.61	0.59	0.53	0.52	0.10	0.50	0.55	0.60	V3
V4	0.62	0.70	0.68	0.67	0.29	0.31	0.65	0.70	V4
V5	0.09	0.47	0.22	0.44	0.14	0.51	0.48	0.48	V5
V6	0.32	0.18	0.25	0.21	-0.17	0.20	0.06	0.20	V6
V7	0.54	0.77	0.66	0.69	0.36	0.58	0.67	0.78	V7
V8	0.21	0.16	0.30	0.15	0.09	0.03	0.01	0.19	V8
V9	0.54	0.74	0.67	0.73	0.29	0.45	0.65	0.73	V9
V10	0.03	0.00	0.10	-0.01	-0.24	0.02	0.00	0.03	V10
V11	0.27	0.42	0.29	0.42	-0.02	0.48	0.38	0.46	V11
V12	-0.24	0.10	0.09	0.11	0.04	0.24	-0.09	0.12	V12
V13	-0.33	-0.27	-0.18	-0.24	-0.31	-0.14	-0.30	-0.24	V13
V14	0.37	0.61	0.36	0.58	0.15	0.53	0.64	0.64	V14
V15	0.20	0.33	0.32	0.37	0.01	0.29	0.17	0.37	V15
V16	0.15	0.39	0.35	0.40	0.21	0.27	0.26	0.42	V16
V17	-0.54	-0.35	-0.23	-0.34	-0.15	-0.07	-0.53	-0.35	V17
V18	-0.13	0.23	0.12	0.19	0.14	0.44	0.08	0.23	V18
V19	-0.15	-0.17	0.07	-0.25	0.00	-0.11	-0.30	-0.18	V19
V20	0.19	0.41	0.24	0.31	0.19	0.51	0.39	0.42	V20
V21	0.15	0.45	0.33	0.47	0.19	0.41	0.32	0.47	V21
V22	0.37	0.58	0.57	0.56	0.21	0.39	0.42	0.57	V22
V23	0.58	0.81	0.66	0.79	0.25	0.59	0.76	0.83	V23
V24	0.66	0.87	0.72	0.82	0.39	0.57	0.80	0.85	V24
V25	0.65	0.77	0.70	0.75	0.23	0.50	0.67	0.78	V25
V26	-0.10	-0.14	-0.11	-0.10	-0.17	-0.30	0.02	-0.15	V26
V27	0.62	0.66	0.66	0.63	0.18	0.41	0.56	0.66	V27
V28	0.23	0.24	0.35	0.22	-0.02	0.05	0.23	0.27	V28
V29	0.35	0.12	0.20	0.19	-0.16	-0.18	0.21	0.18	V29
V30	0.38	0.60	0.59	0.57	0.21	0.34	0.54	0.64	V30
V31	-0.21	-0.17	-0.10	-0.14	-0.18	-0.18	-0.11	-0.16	V31
V32	-0.50	-0.74	-0.63	-0.68	-0.28	-0.60	-0.64	-0.76	V32
V33	0.41	0.72	0.47	0.70	0.29	0.55	0.74	0.72	V33
V34	0.51	0.78	0.54	0.73	0.30	0.62	0.77	0.78	V34
V35	-0.70	-0.83	-0.72	-0.78	-0.32	-0.55	-0.75	-0.83	V35
V36	1.00	0.62	0.64	0.58	0.17	0.20	0.65	0.61	V36
V37	0.62	1.00	0.82	0.94	0.56	0.66	0.89	0.98	V37
V38	0.64	0.82	1.00	0.74	0.35	0.33	0.62	0.80	V38
V39	0.58	0.94	0.74	1.00	0.45	0.54	0.80	0.93	V39
V40	0.17	0.56	0.35	0.45	1.00	0.28	0.45	0.48	V40
V41	0.20	0.66	0.33	0.54	0.28	1.00	0.54	0.67	V41
V42	0.65	0.89	0.62	0.80	0.45	0.54	1.00	0.86	V42
V43	0.61	0.98	0.80	0.93	0.48	0.67	0.86	1.00	V43
	V36	V37	V38	V39	V40	V41	V42	V43	

Disability	Males with a profound or severe disability, living in the community	V36
Deaths	Total deaths	V37
	Cancer	V38
	Circulatory disease	V39
	Respiratory disease	V40
	External causes	V41
	Other causes	V42
Avoidable mortality	Total avoidable mortality	V43

Table 11.2: Correlations coefficients for SLAs in Country SA

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	
V1	1.00	0.37	0.08	0.32	0.10	0.19	0.08	0.17	0.33	-0.05	-0.02	-0.02	0.09	0.01	0.00	0.37	0.47	0.33	0.17	0.21	0.18	0.10	0.04	0.00	0.05	0.43	-0.18	V1
V2	0.37	1.00	0.13	0.28	-0.06	0.16	0.18	0.13	0.15	0.11	0.16	0.02	0.12	0.15	0.16	0.19	0.24	0.25	0.20	0.18	0.30	0.20	0.21	-0.02	-0.04	0.26	-0.18	V2
V3	0.08	0.13	1.00	0.09	0.13	0.19	0.27	0.32	-0.13	0.12	0.09	0.24	0.31	0.03	0.05	-0.07	-0.08	-0.06	-0.05	0.04	0.27	0.20	-0.06	0.00	0.36	-0.07	0.21	V3
V4	0.32	0.28	0.09	1.00	-0.20	0.22	0.44	0.13	0.52	0.47	0.41	0.14	0.29	0.50	0.43	-0.04	0.10	-0.18	-0.42	-0.30	0.34	0.19	0.62	0.12	-0.30	0.62	-0.37	V4
V5	0.10	-0.06	0.13	-0.20	1.00	0.14	-0.16	0.10	0.02	-0.23	-0.31	-0.01	-0.32	-0.34	-0.36	0.53	0.51	0.43	0.40	0.51	-0.04	-0.03	-0.19	0.26	0.17	-0.13	0.01	V5
V6	0.19	0.16	0.19	0.22	0.14	1.00	0.42	0.14	0.14	0.20	0.33	0.21	0.29	0.15	0.20	0.27	0.35	0.05	0.00	0.05	0.10	-0.01	-0.03	-0.01	0.06	0.42	-0.20	V6
V7	0.08	0.18	0.27	0.44	-0.16	0.42	1.00	0.43	0.40	0.85	0.87	0.68	0.79	0.86	0.81	0.04	0.05	-0.05	-0.14	-0.06	0.17	-0.08	0.45	-0.09	-0.22	0.36	-0.15	V7
V8	0.17	0.13	0.32	0.13	0.10	0.14	0.43	1.00	0.04	0.23	0.25	0.33	0.25	0.28	0.16	0.10	0.11	0.15	0.14	0.14	0.57	0.31	0.18	0.21	0.05	-0.11	0.23	V8
V9	0.33	0.15	-0.13	0.52	0.02	0.14	0.40	0.04	1.00	0.24	0.20	0.14	0.22	0.31	0.35	0.24	0.25	0.08	-0.13	-0.03	0.02	-0.02	0.50	0.04	-0.50	0.58	-0.41	V9
V10	-0.05	0.11	0.12	0.47	-0.23	0.20	0.85	0.23	0.24	1.00	0.82	0.56	0.63	0.87	0.79	-0.18	-0.13	-0.26	-0.32	-0.28	0.09	-0.13	0.52	-0.10	-0.22	0.28	-0.16	V10
V11	-0.02	0.16	0.09	0.41	-0.31	0.33	0.87	0.25	0.20	0.82	1.00	0.50	0.72	0.92	0.84	-0.14	-0.11	-0.18	-0.23	-0.17	0.11	-0.18	0.43	-0.08	-0.30	0.31	-0.21	V11
V12	-0.02	0.02	0.24	0.14	-0.01	0.21	0.68	0.33	0.14	0.56	0.50	1.00	0.46	0.54	0.49	0.11	0.10	0.05	0.04	0.06	0.08	-0.06	0.17	-0.07	0.09	0.09	0.12	V12
V13	0.09	0.12	0.31	0.29	-0.32	0.29	0.79	0.25	0.22	0.63	0.72	0.46	1.00	0.67	0.66	-0.10	-0.12	-0.12	-0.16	-0.05	0.00	-0.11	0.22	-0.19	-0.12	0.25	-0.08	V13
V14	0.01	0.15	0.03	0.50	-0.34	0.15	0.86	0.28	0.31	0.87	0.92	0.54	0.67	1.00	0.91	-0.19	-0.16	-0.22	-0.30	-0.24	0.14	-0.15	0.56	-0.11	-0.38	0.31	-0.21	V14
V15	0.00	0.16	0.05	0.43	-0.36	0.20	0.81	0.16	0.35	0.79	0.84	0.49	0.66	0.91	1.00	-0.04	-0.03	-0.10	-0.18	-0.10	-0.01	-0.16	0.40	-0.16	-0.50	0.43	-0.30	V15
V16	0.37	0.19	-0.07	-0.04	0.53	0.27	0.04	0.10	0.24	-0.18	-0.14	0.11	-0.10	-0.19	-0.04	1.00	0.96	0.91	0.78	0.82	-0.06	0.10	-0.18	0.20	0.00	0.35	-0.07	V16
V17	0.47	0.24	-0.08	0.10	0.51	0.35	0.05	0.11	0.25	-0.13	-0.11	0.10	-0.12	-0.16	-0.03	0.96	1.00	0.84	0.67	0.72	-0.02	0.05	-0.11	0.19	0.04	0.41	-0.14	V17
V18	0.33	0.25	-0.06	-0.18	0.43	0.05	-0.05	0.15	0.08	-0.26	-0.18	0.05	-0.12	-0.22	-0.10	0.91	0.84	1.00	0.92	0.92	0.00	0.16	-0.26	0.15	0.03	0.13	0.09	V18
V19	0.17	0.20	-0.05	-0.42	0.40	0.00	-0.14	0.14	-0.13	-0.32	-0.23	0.04	-0.16	-0.30	-0.18	0.78	0.67	0.92	1.00	0.92	-0.04	0.14	-0.39	0.07	0.13	-0.14	0.33	V19
V20	0.21	0.18	0.04	-0.30	0.51	0.05	-0.06	0.14	-0.03	-0.28	-0.17	0.06	-0.05	-0.24	-0.10	0.82	0.72	0.92	0.92	1.00	-0.05	0.14	-0.33	0.11	0.06	-0.04	0.18	V20
V21	0.18	0.30	0.27	0.34	-0.04	0.10	0.17	0.57	0.02	0.09	0.11	0.08	0.00	0.14	-0.01	-0.06	-0.02	0.00	-0.04	-0.05	1.00	0.61	0.32	0.49	0.03	-0.05	0.26	V21
V22	0.10	0.20	0.20	0.19	-0.03	-0.01	-0.08	0.31	-0.02	-0.13	-0.18	-0.06	-0.11	-0.15	-0.16	0.10	0.05	0.16	0.14	0.14	0.61	1.00	-0.01	0.28	0.04	-0.07	0.25	V22
V23	0.04	0.21	-0.06	0.62	-0.19	-0.03	0.45	0.18	0.50	0.52	0.43	0.17	0.22	0.56	0.40	-0.18	-0.11	-0.26	-0.39	-0.33	0.32	-0.01	1.00	-0.05	-0.34	0.32	-0.28	V23
V24	0.00	-0.02	0.00	0.12	0.26	-0.01	-0.09	0.21	0.04	-0.10	-0.08	-0.07	-0.19	-0.11	-0.16	0.20	0.19	0.15	0.07	0.11	0.49	0.28	-0.05	1.00	0.14	-0.05	0.21	V24
V25	0.05	-0.04	0.36	-0.30	0.17	0.06	-0.22	0.05	-0.50	-0.22	-0.30	0.09	-0.12	-0.38	-0.50	0.00	0.04	0.03	0.13	0.06	0.03	0.04	-0.34	0.14	1.00	-0.44	0.56	V25
V26	0.43	0.26	-0.07	0.62	-0.13	0.42	0.36	-0.11	0.58	0.28	0.31	0.09	0.25	0.31	0.43	0.35	0.41	0.13	-0.14	-0.04	-0.05	-0.07	0.32	-0.05	-0.44	1.00	-0.66	V26
V27	-0.18	-0.18	0.21	-0.37	0.01	-0.20	-0.15	0.23	-0.41	-0.16	-0.21	0.12	-0.08	-0.21	-0.30	-0.07	-0.14	0.09	0.33	0.18	0.26	0.25	-0.28	0.21	0.56	-0.66	1.00	V27
V28	0.07	-0.10	0.00	-0.27	0.11	0.03	-0.25	-0.10	-0.10	-0.18	-0.17	-0.27	-0.03	-0.26	-0.35	-0.17	-0.11	-0.10	-0.10	-0.06	-0.17	-0.23	-0.19	-0.18	0.26	-0.18	-0.22	V28
V29	0.16	0.13	-0.24	0.38	-0.36	-0.10	0.21	-0.11	0.34	0.32	0.34	-0.03	0.24	0.44	0.35	-0.39	-0.31	-0.42	-0.56	-0.48	-0.10	-0.25	0.51	-0.22	-0.41	0.33	-0.62	V29
V30	0.21	0.14	-0.02	0.40	-0.20	-0.14	0.06	0.30	0.12	0.11	0.09	-0.06	0.04	0.17	0.03	-0.12	-0.05	-0.05	-0.17	-0.16	0.46	0.18	0.31	0.12	-0.14	0.08	-0.07	V30
V31	0.15	0.14	-0.13	0.26	-0.12	0.21	0.32	-0.22	0.49	0.28	0.34	0.07	0.24	0.33	0.44	0.12	0.14	-0.01	-0.18	-0.05	-0.31	-0.21	0.29	-0.16	-0.44	0.59	-0.70	V31
V32	0.02	-0.10	-0.20	0.27	-0.27	-0.19	0.18	-0.10	0.32	0.27	0.29	-0.01	0.30	0.46	0.38	-0.44	-0.40	-0.49	-0.58	-0.48	-0.14	-0.30	0.38	-0.14	-0.44	0.20	-0.42	V32
V33	0.16	0.15	-0.32	0.14	-0.32	-0.09	0.02	-0.20	0.10	0.15	0.13	-0.07	0.07	0.16	0.02	-0.39	-0.30	-0.36	-0.42	-0.42	-0.17	-0.28	0.36	-0.29	-0.07	0.10	-0.44	V33
V34	0.12	0.07	-0.24	0.40	-0.29	-0.04	0.34	-0.07	0.54	0.38	0.38	0.04	0.29	0.51	0.45	-0.31	-0.25	-0.37	-0.53	-0.44	-0.12	-0.25	0.58	-0.28	-0.53	0.40	-0.65	V34
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	

Figures highlighted thus [ ] indicate correlations of strong significance between the appropriate variables in the matrix; those highlighted thus [ ] indicate correlations of very strong significance

Community services	Community mental health services	V1
	CAMHS	V2
Dental services	Dental child participation	V3
	Dental adult participation	V4
	12 year olds with decay	V5
GP services - men and women	GP services	V6
Hospital admissions	Total hospital admissions	V7
	Hospital admissions for cancer	V8
	Hospital admissions for mental conditions	V9
	Hospital admissions for circulatory conditions	V10
	Hospital admissions for respiratory conditions	V11
	Hospital admissions for musculoskeletal conditions	V12
	Hospital admissions for injury and external causes	V13
Avoidable hospitalisations	Avoidable hospitalisations - Total	V14
	Avoidable hospitalisations - Diabetes complications	V15

Prevalence of selected chronic diseases	Estimates of mental and behavioural disorders	V16
	Estimates of mood (affective) disorders	V17
Prevalence of selected health risk factors	Smoking 18+	V18
	Overweight (not obese)	V19
	Obese	V20
Cancer incidence	Total cancer	V21
	Colorectal cancer	V22
	Lung cancer	V23
	Prostate cancer	V24
Education participation - all	Aged 16 years participating in full-time secondary education	V25
Unemployment	Unemployed men	V26
IRSD - men and women	Index of Relative Socio-economic Disadvantage	V27

Table 11.2: Correlations coefficients for SLAs in Country SA … *cont.*

	V28	V29	V30	V31	V32	V33	V34	
V1	0.07	0.16	0.21	0.15	0.02	0.16	0.12	V1
V2	-0.10	0.13	0.14	0.14	-0.10	0.15	0.07	V2
V3	0.00	-0.24	-0.02	-0.13	-0.20	-0.32	-0.24	V3
V4	-0.27	0.38	0.40	0.26	0.27	0.14	0.40	V4
V5	0.11	-0.36	-0.20	-0.12	-0.27	-0.32	-0.29	V5
V6	0.03	-0.10	-0.14	0.21	-0.19	-0.09	-0.04	V6
V7	-0.25	0.21	0.06	0.32	0.18	0.02	0.34	V7
V8	-0.10	-0.11	0.30	-0.22	-0.10	-0.20	-0.07	V8
V9	-0.36	0.34	0.12	0.49	0.32	0.10	0.54	V9
V10	-0.19	0.32	0.11	0.28	0.27	0.15	0.38	V10
V11	-0.17	0.34	0.09	0.34	0.29	0.13	0.38	V11
V12	-0.27	-0.03	-0.06	0.07	-0.01	-0.07	0.04	V12
V13	-0.03	0.24	0.04	0.24	0.30	0.07	0.29	V13
V14	-0.26	0.44	0.17	0.33	0.46	0.16	0.51	V14
V15	-0.35	0.35	0.03	0.44	0.38	0.02	0.45	V15
V16	-0.17	-0.39	-0.12	0.12	-0.44	-0.39	-0.31	V16
V17	-0.11	-0.31	-0.05	0.14	-0.40	-0.30	-0.25	V17
V18	-0.10	-0.42	-0.05	-0.01	-0.49	-0.36	-0.37	V18
V19	-0.10	-0.56	-0.17	-0.18	-0.58	-0.42	-0.53	V19
V20	-0.06	-0.48	-0.16	-0.05	-0.48	-0.42	-0.44	V20
V21	-0.17	-0.10	0.46	-0.31	-0.14	-0.17	-0.12	V21
V22	-0.23	-0.25	0.18	-0.21	-0.30	-0.28	-0.25	V22
V23	-0.19	0.51	0.31	0.29	0.38	0.36	0.58	V23
V24	-0.18	-0.22	0.12	-0.16	-0.14	-0.29	-0.28	V24
V25	0.26	-0.41	-0.14	-0.44	-0.44	-0.07	-0.53	V25
V26	-0.18	0.33	0.08	0.59	0.20	0.10	0.40	V26
V27	-0.22	-0.62	-0.07	-0.70	-0.42	-0.44	-0.65	V27
V28	1.00	0.22	0.04	0.07	0.09	0.41	0.10	V28
V29	0.22	1.00	0.43	0.66	0.73	0.78	0.92	V29
V30	0.04	0.43	1.00	0.00	0.17	0.18	0.29	V30
V31	0.07	0.66	0.00	1.00	0.39	0.41	0.72	V31
V32	0.09	0.73	0.17	0.39	1.00	0.37	0.77	V32
V33	0.41	0.78	0.18	0.41	0.37	1.00	0.63	V33
V34	0.10	0.92	0.29	0.72	0.77	0.63	1.00	V34
	V28	V29	V30	V31	V32	V33	V34	

Disability	Males with a profound or severe disability, living in the community	V28
Deaths	Total deaths	V29
	Cancer	V30
	Circulatory disease	V31
	External causes	V32
	Other causes	V33
Avoidable mortality	Total avoidable mortality	V34