

## CORRELATION ANALYSIS

A correlation analysis has been undertaken to illustrate the extent of association at the SLA level between the indicators of demography, socioeconomic status, health status and use of services.

### Description

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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 (ie. high values for one are matched by low values for the other), the two variables are negatively correlated.

### Methods

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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 0.5 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 per cent shared variation ( $r^2$  greater than or equal to 0.5): these are referred to as being 'very strong' correlations.

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 are shown in the following tables: coefficients of from 0.5 to 0.7 and from 0.71 to 1 (both positive and negative) are highlighted in the tables.

The indicators of infant mortality and the Burden of Disease are not included as they were not calculated for SLAs. Two indicators of high socioeconomic status have also been included: high income families and managers and administrators, and professionals.

### Results

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The results of the correlation analysis for SLAs in the Central Northern Area Health Service Region show strong or very strong associations between a number of the demographic, health status and health service utilisation indicators (Table 99). Generally, indicators within separate sections of the atlas tended to be correlated more often with each other. This is to be expected, as the indicators are grouped according to themes and the sections are based on these themes. However, there were also many strong or very strong correlations between the sections.

In addition to very strong correlations between many of the demographic and socioeconomic indicators, there were strong or very strong correlations with: perinatal outcomes; premature and avoidable mortality; community based services; home and community care; GP services; and Accident and Emergency and outpatient department attendances.

In addition, premature and avoidable mortality were strongly or very strongly correlated with income support payments and the perinatal indicators. Participation in cervical screening, GP services (to females and, in particular, males) and admissions to public acute hospitals were also very strongly or strongly correlated with income support payments and perinatal indicators.

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Table 99: Correlation matrix for SLAs in the CNAHS

	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	V36	V37	V38	V39		
V1	1.00	0.83	-0.09	-0.62	0.87	0.65	0.47	-0.59	0.54	0.48	0.81	-0.76	-0.65	-0.53	-0.79	-0.73	-0.71	0.53	-0.19	-0.53	-0.01	0.39	0.01	-0.24	-0.53	-0.64	0.66	0.35	0.76	0.42	0.60	0.70	0.67	0.23	0.71	0.05	0.00	0.29	0.09	V1	
V2	0.83	1.00	-0.17	-0.75	0.81	0.32	0.13	-0.29	0.21	0.17	0.57	-0.52	-0.38	-0.24	-0.64	-0.56	-0.48	0.20	-0.32	-0.76	-0.22	0.10	-0.36	-0.62	-0.18	-0.32	0.43	0.01	0.55	0.09	0.36	0.44	0.47	-0.05	0.51	0.09	-0.12	0.07	0.18	V2	
V3	-0.09	-0.17	1.00	-0.37	-0.25	0.05	-0.20	0.19	0.04	0.15	-0.03	0.18	-0.12	-0.35	0.06	0.16	-0.11	0.05	-0.25	0.48	-0.15	-0.06	0.45	0.14	0.15	0.03	-0.16	-0.09	-0.08	0.04	-0.10	0.02	0.08	0.12	-0.03	-0.50	0.07	-0.34	-0.60	V3	
V4	-0.62	-0.75	-0.37	1.00	-0.44	-0.10	0.19	-0.01	0.01	0.01	-0.33	0.31	0.17	0.23	0.46	0.30	0.37	-0.05	0.47	0.43	0.32	0.17	0.18	0.65	-0.07	0.08	-0.37	0.22	-0.25	0.11	-0.12	-0.23	-0.28	0.08	-0.35	0.02	0.12	0.12	0.15	V4	
V5	0.87	0.81	-0.25	-0.44	1.00	0.68	0.56	-0.64	0.62	0.59	0.80	-0.69	-0.71	-0.52	-0.78	-0.76	-0.71	0.63	-0.19	-0.56	-0.03	0.53	-0.06	-0.14	-0.53	-0.67	0.55	0.46	0.85	0.54	0.70	0.67	0.65	0.31	0.75	-0.11	0.04	0.30	0.09	V5	
V6	0.65	0.32	0.05	-0.10	0.68	1.00	0.86	-0.84	0.94	0.85	0.86	-0.68	-0.91	-0.77	-0.66	-0.70	-0.73	0.91	0.12	-0.06	0.29	0.87	0.36	0.47	-0.80	-0.92	0.52	0.78	0.84	0.83	0.79	0.73	0.76	0.61	0.70	-0.33	0.20	0.37	-0.16	V6	
V7	0.47	0.13	-0.20	0.19	0.56	0.86	1.00	-0.97	0.94	0.82	0.82	-0.74	-0.87	-0.73	-0.66	-0.77	-0.71	0.85	0.41	0.05	0.53	0.87	0.41	0.57	-0.95	-0.94	0.51	0.91	0.80	0.87	0.88	0.70	0.57	0.68	0.72	-0.17	0.37	0.63	-0.09	V7	
V8	-0.59	-0.29	0.19	-0.01	-0.64	-0.84	-0.97	1.00	-0.92	-0.77	-0.91	0.87	0.89	0.74	0.77	0.85	0.78	-0.82	-0.36	0.09	-0.48	-0.78	-0.33	-0.38	0.97	0.95	-0.62	-0.85	-0.85	-0.82	-0.92	-0.72	-0.62	-0.63	-0.81	0.11	-0.33	-0.65	0.05	V8	
V9	0.54	0.21	0.04	0.01	0.62	0.94	0.94	-0.92	1.00	0.91	0.87	-0.71	-0.96	-0.84	-0.69	-0.76	-0.78	0.92	0.26	0.08	0.43	0.90	0.46	0.55	-0.89	-0.97	0.46	0.89	0.86	0.92	0.89	0.77	0.69	0.74	0.77	-0.35	0.31	0.51	-0.25	V9	
V10	0.48	0.17	0.15	0.01	0.59	0.85	0.82	-0.77	0.91	1.00	0.77	-0.55	-0.90	-0.86	-0.64	-0.70	-0.78	0.87	0.11	0.14	0.31	0.85	0.61	0.61	-0.75	-0.86	0.40	0.88	0.84	0.96	0.82	0.77	0.65	0.78	0.74	-0.54	0.38	0.42	-0.39	V10	
V11	0.81	0.57	-0.03	-0.33	0.80	0.86	0.82	-0.91	0.87	0.77	1.00	-0.90	-0.93	-0.80	-0.89	-0.89	-0.89	0.81	0.13	-0.24	0.31	0.71	0.27	0.15	-0.87	-0.94	0.65	0.73	0.92	0.77	0.90	0.80	0.78	0.61	0.90	-0.15	0.26	0.50	-0.11	V11	
V12	-0.76	-0.52	0.18	0.31	-0.69	-0.68	-0.74	0.87	-0.71	-0.55	-0.90	1.00	0.75	0.66	0.90	0.88	0.81	-0.66	-0.15	0.31	-0.26	-0.56	-0.10	-0.01	0.84	0.82	-0.74	-0.65	-0.83	-0.63	-0.84	-0.69	-0.63	-0.47	-0.88	-0.12	-0.28	-0.59	-0.06	V12	
V13	-0.65	-0.38	-0.12	0.17	-0.71	-0.91	-0.87	0.89	-0.96	-0.90	-0.93	0.75	1.00	0.90	0.79	0.82	0.84	-0.89	-0.15	0.03	-0.33	-0.84	-0.42	-0.39	0.86	0.96	-0.48	-0.82	-0.90	-0.87	-0.89	-0.80	-0.73	-0.68	-0.84	0.36	-0.33	-0.47	0.30	V13	
V14	-0.53	-0.24	-0.35	0.23	-0.52	-0.77	-0.73	0.74	-0.84	-0.86	-0.80	0.66	0.90	1.00	0.74	0.76	0.80	-0.81	0.02	-0.09	-0.17	-0.73	-0.54	-0.40	0.74	0.82	-0.43	-0.76	-0.80	-0.82	-0.78	-0.67	-0.63	-0.65	-0.81	0.49	-0.53	-0.37	0.53	V14	
V15	-0.79	-0.64	0.06	0.46	-0.78	-0.66	-0.66	0.77	-0.69	-0.64	-0.89	0.90	0.79	0.74	1.00	0.91	0.87	-0.67	0.13	0.38	-0.06	-0.55	-0.13	0.05	0.72	0.77	-0.66	-0.63	-0.89	-0.66	-0.84	-0.78	-0.67	-0.63	-0.49	-0.92	0.11	-0.36	-0.49	0.03	V15
V16	-0.73	-0.56	0.16	0.30	-0.76	-0.70	-0.77	0.85	-0.76	-0.70	-0.89	0.88	0.82	0.76	0.91	1.00	0.87	-0.75	-0.05	0.29	-0.20	-0.66	-0.23	-0.09	0.80	0.83	-0.68	-0.76	-0.90	-0.74	-0.92	-0.71	-0.64	-0.53	-0.92	0.14	-0.49	-0.56	0.14	V16	
V17	-0.71	-0.48	-0.11	0.37	-0.71	-0.73	-0.71	0.78	-0.78	-0.78	-0.89	0.81	0.84	0.80	0.87	0.87	1.00	-0.74	-0.10	0.03	-0.31	-0.62	-0.44	-0.19	0.77	0.84	-0.60	-0.74	-0.88	-0.80	-0.88	-0.78	-0.69	-0.70	-0.87	0.21	-0.36	-0.46	0.29	V17	
V18	0.53	0.20	0.05	-0.05	0.63	0.91	0.85	-0.82	0.92	0.87	0.81	-0.66	-0.89	-0.81	-0.67	-0.75	-0.74	1.00	0.06	0.03	0.23	0.90	0.42	0.53	-0.78	-0.89	0.55	0.87	0.84	0.88	0.83	0.63	0.67	0.66	0.77	-0.41	0.41	0.41	-0.31	V18	
V19	-0.19	-0.32	-0.25	0.47	-0.19	0.12	0.41	-0.36	0.26	0.11	0.13	-0.15	-0.15	0.02	0.13	-0.05	-0.10	0.06	1.00	0.47	0.93	0.21	0.26	0.41	-0.45	-0.31	0.01	0.33	-0.03	0.22	0.24	0.09	-0.05	0.37	-0.04	0.33	-0.03	0.45	-0.09	V19	
V20	-0.53	-0.76	0.48	0.43	-0.56	-0.06	0.05	0.09	0.08	0.14	-0.24	0.31	0.03	-0.09	0.38	0.29	0.03	0.03	0.47	1.00	0.50	0.09	0.66	0.67	-0.05	0.01	-0.29	0.19	-0.31	0.18	-0.10	-0.11	-0.19	0.37	-0.27	-0.22	0.18	0.04	-0.55	V20	
V21	-0.01	-0.22	-0.15	0.32	-0.03	0.29	0.53	-0.48	0.43	0.31	0.31	-0.26	-0.33	-0.17	-0.06	-0.20	-0.31	0.23	0.93	0.50	1.00	0.35	0.40	0.48	-0.59	-0.49	0.11	0.47	0.14	0.40	0.40	0.29	0.14	0.58	0.14	0.20	0.06	0.49	-0.21	V21	
V22	0.39	0.10	-0.06	0.17	0.53	0.87	0.87	-0.78	0.90	0.85	0.71	-0.56	-0.84	-0.73	-0.55	-0.66	-0.62	0.90	0.21	0.09	0.35	1.00	0.36	0.66	-0.76	-0.86	0.41	0.89	0.76	0.88	0.77	0.58	0.57	0.67	0.61	-0.35	0.43	0.40	-0.24	V22	
V23	0.01	-0.36	0.45	0.18	-0.06	0.36	0.41	-0.33	0.46	0.61	0.27	-0.10	-0.42	-0.54	-0.13	-0.23	-0.44	0.42	0.26	0.66	0.40	0.36	1.00	0.69	-0.43	-0.41	0.16	0.55	0.26	0.60	0.35	0.37	0.23	0.66	0.28	-0.41	0.38	0.25	-0.54	V23	
V24	-0.24	-0.62	0.14	0.65	-0.14	0.47	0.57	-0.38	0.55	0.61	0.15	-0.01	-0.39	-0.40	0.05	-0.09	-0.19	0.53	0.41	0.67	0.48	0.66	0.69	1.00	-0.46	-0.44	-0.01	0.68	0.21	0.66	0.32	0.22	0.16	0.61	0.10	-0.40	0.38	0.22	-0.36	V24	
V25	-0.53	-0.18	0.15	-0.07	-0.53	-0.80	-0.95	0.97	-0.89	-0.75	-0.87	0.84	0.86	0.74	0.72	0.80	0.77	-0.78	-0.45	-0.05	-0.59	-0.76	-0.43	-0.46	1.00	0.94	-0.56	-0.86	-0.78	-0.82	-0.89	-0.72	-0.61	-0.71	-0.78	0.07	-0.37	-0.70	0.11	V25	
V26	-0.64	-0.32	0.03	0.08	-0.67	-0.92	-0.94	0.95	-0.97	-0.86	-0.94	0.82	0.96	0.82	0.77	0.83	0.84	-0.89	-0.31	0.01	-0.49	-0.86	-0.41	-0.44	0.94	1.00	-0.57	-0.87	-0.88	-0.88	-0.91	-0.79	-0.73	-0.73	-0.82	0.22	-0.33	-0.56	0.20	V26	
V27	0.66	0.43	-0.16	-0.37	0.55	0.52	0.51	-0.62	0.46	0.40	0.65	-0.74	-0.48	-0.43	-0.66	-0.68	-0.60	0.55	0.01	-0.29	0.11	0.41	0.16	-0.01	-0.56	-0.57	1.00	0.51	0.62	0.46	0.60	0.37	0.36	0.32	0.64	0.08	0.22	0.38	0.03	V27	
V28	0.35	0.01	-0.09	0.22	0.46	0.78	0.91	-0.85	0.89	0.88	0.73	-0.65	-0.82	-0.76	-0.63	-0.76	-0.74	0.87	0.33	0.19	0.47	0.89	0.55	0.68	-0.86	-0.87	0.51	1.00	0.80	0.96	0.88	0.66	0.55	0.79	0.73	-0.32	0.53	0.57	-0.29	V28	
V29	0.76	0.55	-0.08	-0.25	0.85	0.84	0.80	-0.85	0.86	0.84	0.92	-0.83	-0.90	-0.80	-0.89	-0.90	-0.88	0.84	-0.03	-0.31	0.14	0.76	0.26	0.21	-0.78	-0.88	0.62	0.80	1.00	0.85	0.93	0.81	0.73	0.60	0.91	-0.26	0.31	0.42	-0.10	V29	

Table 99: Correlation matrix for SLAs in the CNAHS ...cont

	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	V36	V37	V38	V39	
V40	-0.06	-0.20	0.19	0.00	-0.11	0.15	-0.03	0.05	0.03	0.05	-0.06	0.07	0.03	-0.06	0.08	0.08	0.09	0.26	-0.28	0.13	-0.29	0.14	0.10	0.21	0.08	0.02	0.34	0.09	-0.06	0.08	-0.09	-0.23	0.06	-0.01	-0.06	-0.38	0.05	-0.08	-0.18	V40
V41	0.56	0.28	0.38	-0.46	0.42	0.62	0.38	-0.44	0.54	0.54	0.62	-0.57	-0.59	-0.65	-0.58	-0.54	-0.66	0.66	-0.16	0.05	0.02	0.49	0.39	0.18	-0.46	-0.57	0.66	0.51	0.57	0.57	0.51	0.47	0.63	0.51	0.64	-0.28	0.29	0.18	-0.39	V41
V42	-0.36	-0.41	0.04	0.29	-0.34	-0.16	-0.31	0.38	-0.28	-0.28	-0.42	0.36	0.35	0.33	0.42	0.44	0.47	-0.07	-0.29	0.12	-0.40	-0.04	-0.24	0.15	0.38	0.36	-0.15	-0.18	-0.35	-0.22	-0.40	-0.45	-0.17	-0.31	-0.41	-0.14	-0.12	-0.31	0.12	V42
V43	-0.06	0.05	0.12	-0.26	-0.12	-0.24	-0.37	0.30	-0.32	-0.32	-0.23	0.17	0.27	0.16	0.14	0.17	0.29	-0.12	-0.36	-0.14	-0.43	-0.28	-0.21	-0.31	0.35	0.31	0.17	-0.30	-0.24	-0.31	-0.31	-0.34	-0.08	-0.31	-0.13	-0.08	-0.05	-0.25	-0.10	V43
V44	0.33	0.01	0.15	0.13	0.41	0.78	0.77	-0.69	0.83	0.81	0.65	-0.43	-0.78	-0.70	-0.42	-0.52	-0.65	0.74	0.33	0.32	0.51	0.75	0.64	0.68	-0.73	-0.80	0.23	0.74	0.63	0.79	0.64	0.68	0.59	0.79	0.56	-0.33	0.33	0.41	-0.41	V44
V45	0.39	0.06	-0.05	0.12	0.47	0.72	0.74	-0.67	0.72	0.70	0.59	-0.47	-0.68	-0.60	-0.51	-0.56	-0.56	0.74	0.08	0.02	0.21	0.70	0.43	0.52	-0.69	-0.69	0.33	0.71	0.67	0.69	0.66	0.58	0.43	0.50	0.57	-0.25	0.32	0.39	-0.12	V45
V46	0.32	-0.06	0.21	0.13	0.32	0.84	0.78	-0.70	0.84	0.79	0.64	-0.44	-0.78	-0.72	-0.41	-0.48	-0.59	0.82	0.28	0.32	0.46	0.77	0.59	0.70	-0.75	-0.80	0.29	0.76	0.59	0.78	0.63	0.60	0.57	0.70	0.50	-0.43	0.30	0.37	-0.39	V46
V47	0.27	0.10	-0.20	0.02	0.33	0.47	0.58	-0.57	0.57	0.54	0.53	-0.49	-0.54	-0.46	-0.45	-0.57	-0.55	0.56	0.43	0.11	0.60	0.60	0.30	0.35	-0.61	-0.63	0.39	0.67	0.51	0.63	0.65	0.44	0.37	0.67	0.55	-0.02	0.32	0.51	-0.29	V47
V48	0.19	-0.18	0.14	0.30	0.27	0.76	0.72	-0.60	0.77	0.82	0.51	-0.33	-0.68	-0.68	-0.34	-0.45	-0.50	0.77	0.13	0.30	0.27	0.82	0.59	0.79	-0.62	-0.69	0.20	0.81	0.59	0.83	0.61	0.52	0.57	0.70	0.46	-0.53	0.42	0.25	-0.40	V48
V49	0.40	0.17	-0.35	0.06	0.52	0.60	0.76	-0.76	0.70	0.60	0.66	-0.74	-0.62	-0.54	-0.67	-0.76	-0.66	0.72	0.21	-0.08	0.33	0.66	0.20	0.33	-0.74	-0.72	0.59	0.79	0.70	0.72	0.79	0.54	0.52	0.64	0.76	-0.05	0.47	0.61	-0.10	V49
V50	0.34	0.02	0.37	0.00	0.44	0.81	0.74	-0.66	0.87	0.91	0.66	-0.45	-0.85	-0.88	-0.52	-0.59	-0.67	0.88	0.03	0.30	0.21	0.85	0.60	0.66	-0.65	-0.79	0.30	0.81	0.70	0.87	0.70	0.59	0.59	0.70	0.63	-0.65	0.47	0.27	-0.56	V50
V51	0.56	0.22	-0.05	0.04	0.58	0.83	0.88	-0.85	0.87	0.83	0.81	-0.71	-0.86	-0.77	-0.68	-0.76	-0.69	0.83	0.23	-0.05	0.33	0.83	0.45	0.50	-0.85	-0.88	0.56	0.86	0.84	0.84	0.83	0.75	0.57	0.60	0.75	-0.22	0.40	0.47	-0.12	V51
V52	0.47	0.20	-0.41	0.16	0.43	0.60	0.67	-0.65	0.57	0.48	0.60	-0.58	-0.52	-0.29	-0.48	-0.53	-0.45	0.53	0.32	-0.17	0.40	0.56	0.24	0.32	-0.68	-0.66	0.56	0.61	0.56	0.56	0.54	0.59	0.49	0.45	0.51	0.17	0.23	0.45	0.30	V52
V53	-0.16	-0.26	-0.25	0.39	0.00	0.14	0.18	-0.06	0.13	0.27	-0.03	0.15	-0.02	0.00	0.10	-0.01	-0.03	0.29	0.03	0.21	0.08	0.32	0.31	0.48	-0.06	-0.10	0.21	0.34	0.06	0.32	0.05	-0.13	0.02	0.33	-0.01	-0.29	0.27	0.06	-0.08	V53
V54	0.01	-0.08	-0.10	0.02	-0.20	-0.06	-0.15	0.11	-0.22	-0.30	-0.16	0.04	0.24	0.15	0.17	0.18	0.26	-0.09	-0.11	-0.08	-0.20	-0.19	-0.17	-0.10	0.12	0.17	0.23	-0.21	-0.26	-0.27	-0.31	-0.33	-0.13	-0.41	-0.20	0.09	-0.03	-0.14	0.06	V54
V55	-0.09	-0.23	0.05	0.15	-0.15	0.10	-0.01	0.10	0.03	0.08	-0.09	0.20	0.03	0.12	0.17	0.21	0.15	0.11	-0.13	0.11	-0.08	0.13	0.08	0.25	0.05	0.03	-0.07	0.05	-0.09	0.07	-0.10	0.04	0.04	0.07	-0.16	-0.24	-0.09	0.02	0.03	V55
V56	-0.72	-0.53	0.37	0.18	-0.73	-0.65	-0.74	0.81	-0.67	-0.61	-0.81	0.84	0.69	0.56	0.84	0.89	0.76	-0.63	-0.13	0.37	-0.26	-0.58	-0.19	-0.08	0.77	0.77	-0.69	-0.71	-0.84	-0.67	-0.83	-0.74	-0.59	-0.48	-0.83	-0.07	-0.34	-0.56	-0.18	V56
V57	0.36	0.11	0.00	0.08	0.38	0.53	0.51	-0.45	0.54	0.66	0.49	-0.36	-0.54	-0.54	-0.48	-0.54	-0.48	0.56	-0.16	-0.03	-0.01	0.53	0.45	0.41	-0.47	-0.53	0.23	0.59	0.57	0.63	0.48	0.60	0.57	0.50	0.56	-0.38	0.52	0.40	-0.14	V57
V58	-0.34	-0.63	0.23	0.39	-0.38	0.06	0.04	0.05	0.05	0.03	-0.20	0.11	0.09	0.06	0.28	0.30	0.21	0.11	0.06	0.44	0.00	0.12	0.23	0.48	0.00	0.06	-0.06	0.12	-0.16	0.11	-0.09	-0.13	-0.07	0.07	-0.17	-0.06	-0.09	-0.07	0.01	V58
V59	0.19	0.35	-0.26	-0.16	0.19	-0.05	0.07	-0.14	-0.03	-0.11	0.13	-0.30	-0.04	-0.01	-0.28	-0.35	-0.11	0.00	-0.09	-0.38	-0.14	0.08	-0.40	-0.31	-0.09	-0.06	0.14	0.05	0.15	-0.06	0.17	0.08	0.02	-0.29	0.16	0.15	0.28	0.15	0.28	V59
V60	0.50	0.21	0.16	-0.17	0.43	0.67	0.71	-0.76	0.74	0.76	0.77	-0.70	-0.78	-0.82	-0.69	-0.77	-0.83	0.72	0.30	0.19	0.45	0.64	0.60	0.39	-0.78	-0.79	0.61	0.79	0.72	0.80	0.80	0.59	0.53	0.68	0.73	-0.24	0.45	0.51	-0.47	V60
V61	0.53	0.30	0.34	-0.36	0.44	0.61	0.57	-0.64	0.66	0.70	0.75	-0.65	-0.75	-0.85	-0.69	-0.74	-0.82	0.68	0.10	0.14	0.27	0.54	0.56	0.26	-0.66	-0.72	0.59	0.66	0.69	0.70	0.70	0.56	0.58	0.62	0.75	-0.33	0.49	0.36	-0.58	V61
V62	0.52	0.24	0.36	-0.25	0.51	0.72	0.68	-0.71	0.80	0.86	0.79	-0.68	-0.86	-0.93	-0.77	-0.77	-0.85	0.78	0.00	0.12	0.20	0.70	0.56	0.40	-0.72	-0.79	0.52	0.80	0.82	0.86	0.82	0.71	0.63	0.72	0.83	-0.46	0.51	0.35	-0.51	V62
V63	0.54	0.29	0.44	-0.31	0.52	0.70	0.61	-0.64	0.75	0.85	0.75	-0.58	-0.83	-0.92	-0.72	-0.72	-0.82	0.74	-0.10	0.08	0.09	0.64	0.59	0.36	-0.63	-0.73	0.46	0.72	0.80	0.81	0.75	0.70	0.64	0.64	0.77	-0.55	0.44	0.23	-0.51	V63
V64	0.49	0.20	0.27	-0.20	0.47	0.70	0.71	-0.74	0.80	0.82	0.79	-0.73	-0.84	-0.90	-0.78	-0.78	-0.85	0.78	0.09	0.13	0.28	0.72	0.51	0.41	-0.76	-0.81	0.54	0.83	0.80	0.86	0.83	0.69	0.60	0.76	0.84	-0.36	0.56	0.43	-0.48	V64
V65	0.51	0.21	-0.09	-0.01	0.55	0.76	0.83	-0.81	0.82	0.84	0.81	-0.69	-0.80	-0.72	-0.69	-0.77	-0.84	0.81	0.33	0.12	0.52	0.77	0.58	0.51	-0.84	-0.87	0.60	0.90	0.80	0.90	0.84	0.70	0.65	0.85	0.77	-0.21	0.45	0.54	-0.30	V65
V66	0.51	0.20	-0.09	0.00	0.55	0.76	0.83	-0.82	0.82	0.83	0.81	-0.70	-0.80	-0.72	-0.70	-0.78	-0.84	0.81	0.33	0.12	0.53	0.77	0.57	0.51	-0.85	-0.88	0.60	0.90	0.80	0.90	0.85	0.70	0.65	0.85	0.77	-0.20	0.46	0.54	-0.30	V66
V67	-0.67	-0.54	0.22	0.40	-0.67	-0.50	-0.60	0.72	-0.59	-0.42	-0.75	0.87	0.62	0.51	0.78	0.80	0.71	-0.51	-0.16	0.32	-0.30	-0.40	0.01	0.14	0.68	0.67	-0.57	-0.50	-0.69	-0.48	-0.77	-0.65	-0.53	-0.43	-0.81	-0.14	-0.18	-0.63	0.00	V67
V68	0.06	-0.19	0.07	0.31	0.12	0.51	0.51	-0.40	0.51	0.66	0.36	-0.13	-0.46	-0.44	-0.20	-0.28	-0.43	0.56	0.26	0.40	0.39	0.61	0.68	0.73	-0.46	-0.50	0.26	0.67	0.39	0.69	0.40	0.31	0.35	0.67	0.28	-0.35	0.40	0.14	-0.36	V68
V69	-0.60	-0.30	-0.26	0.28	-0.56	-0.72	-0.71	0.74	-0.80	-0.83	-0.82	0.69	0.85	0.86	0.75	0.80	0.91	-0.74	-0.18	-0.16	-0.42	-0.65	-0.65	-0.36	0.78	0.83	-0.50	-0.78	-0.79	-0.82	-0.83	-0.80	-0.67	-0.78	-0.82	0.32	-0.45	-0.50	0.46	V69
V70	0.28	0.35	0.03	-0.27	0.40	0.13	0.20	-0.24	0.27	0.28	0.35	-0.25	-0.34	-0.29	-0.35	-0.35	-0.43	0.13	0.00	-0.09	0.12	0.11	0.16	-0.14	-0.22	-0.27	0.08	0.14	0.33	0.23	0.32	0.38	0.23	0.41	0.38	-0.02	0.08	0.25	-0.21	V70
V71	0.64	0.34	0.11	-0.22	0.60	0.81	0.79	-0.82	0.86	0.76	0.87	-0.74	-0.88	-0.81	-0.72	-0.73	-0.80	0.74	0.22	0.01	0.44	0.67	0.39	0.30	-0.84	-0.89	0.44	0.68	0.76	0.74	0.78	0.78	0.69	0.70	0.77	-0.19	0.28	0.53	-0.31	V71
V72	-0.39	-0.02	-0.09	-0.03	-0.24	-0.71	-0.62	0.61	-0.63	-0.52	-0.56	0.52	0.59	0.55	0.41	0.41	0.41	-0																						

Table 99: Correlation matrix for SLAs in the CNAHS ...cont

	V40	V41	V42	V43	V44	V45	V46	V47	V48	V49	V50	V51	V52	V53	V54	V55	V56	V57	V58	V59	V60	V61	V62	V63	V64	V65	V66	V67	V68	V69	V70	V71	V72	V73	V74	V75	V76	V77	V78	
V1	-0.06	0.56	-0.36	-0.06	0.33	0.39	0.32	0.27	0.19	0.40	0.34	0.56	0.47	-0.16	0.01	-0.09	-0.72	0.36	-0.34	0.19	0.50	0.53	0.52	0.54	0.49	0.51	0.51	-0.67	0.06	-0.60	0.28	0.64	-0.39	0.17	0.34	0.03	-0.17	0.40	0.68	V1
V2	-0.20	0.28	-0.41	0.05	0.01	0.06	-0.06	0.10	-0.18	0.17	0.02	0.22	0.20	-0.26	-0.08	-0.23	-0.53	0.11	-0.63	0.35	0.21	0.30	0.24	0.29	0.20	0.21	0.20	-0.54	-0.19	-0.30	0.35	0.34	-0.02	0.21	0.40	0.35	-0.12	0.50	0.38	V2
V3	0.19	0.38	0.04	0.12	0.15	-0.05	0.21	-0.20	0.14	-0.35	0.37	-0.05	-0.41	-0.25	-0.10	0.05	0.37	0.00	0.23	-0.26	0.16	0.34	0.36	0.44	0.27	-0.09	-0.09	0.22	0.07	-0.26	0.03	0.11	-0.09	0.05	0.02	-0.06	0.25	0.20	0.08	V3
V4	0.00	-0.46	0.29	-0.26	0.13	0.12	0.13	0.02	0.30	0.06	0.00	0.04	0.16	0.39	0.02	0.15	0.18	0.08	0.39	-0.16	-0.17	-0.36	-0.25	-0.31	-0.20	-0.01	0.00	0.40	0.31	0.28	-0.27	-0.22	-0.03	-0.15	-0.32	-0.36	-0.13	-0.54	-0.31	V4
V5	-0.11	0.42	-0.34	-0.12	0.41	0.47	0.32	0.33	0.27	0.52	0.44	0.58	0.43	0.00	-0.20	-0.15	-0.73	0.38	-0.38	0.19	0.43	0.44	0.51	0.52	0.47	0.55	0.55	-0.67	0.12	-0.56	0.40	0.60	-0.24	0.28	0.45	0.13	-0.33	0.41	0.64	V5
V6	0.15	0.62	-0.16	-0.24	0.78	0.72	0.84	0.47	0.76	0.60	0.81	0.83	0.60	0.14	-0.06	0.10	-0.65	0.53	0.06	-0.05	0.67	0.61	0.72	0.70	0.70	0.76	0.76	-0.50	0.51	-0.72	0.13	0.81	-0.71	0.13	0.14	-0.48	-0.22	0.11	0.76	V6
V7	-0.03	0.38	-0.31	-0.37	0.77	0.74	0.78	0.58	0.72	0.76	0.74	0.88	0.67	0.18	-0.15	-0.01	-0.74	0.51	0.04	0.07	0.71	0.57	0.68	0.61	0.71	0.83	0.83	-0.60	0.51	-0.71	0.20	0.79	-0.62	0.23	0.19	-0.46	-0.33	0.14	0.75	V7
V8	0.05	-0.44	0.38	0.30	-0.69	-0.67	-0.70	-0.57	-0.60	-0.76	-0.66	-0.85	-0.65	-0.06	0.11	0.10	0.81	-0.45	0.05	-0.14	-0.76	-0.64	-0.71	-0.64	-0.74	-0.81	-0.82	0.72	-0.40	0.74	-0.24	-0.82	0.61	-0.25	-0.24	0.40	0.27	-0.25	-0.82	V8
V9	0.03	0.54	-0.28	-0.32	0.83	0.72	0.84	0.57	0.77	0.70	0.87	0.87	0.57	0.13	-0.22	0.03	-0.67	0.54	0.05	-0.03	0.74	0.66	0.80	0.75	0.80	0.82	0.82	-0.59	0.51	-0.80	0.27	0.86	-0.63	0.29	0.26	-0.43	-0.31	0.22	0.80	V9
V10	0.05	0.54	-0.28	-0.32	0.81	0.70	0.79	0.54	0.82	0.60	0.91	0.83	0.48	0.27	-0.30	0.08	-0.61	0.66	0.03	-0.11	0.76	0.70	0.86	0.85	0.82	0.84	0.83	-0.42	0.66	-0.83	0.28	0.76	-0.52	0.28	0.28	-0.31	-0.38	0.21	0.74	V10
V11	-0.06	0.62	-0.42	-0.23	0.65	0.59	0.64	0.53	0.51	0.66	0.66	0.81	0.60	-0.03	-0.16	-0.09	-0.81	0.49	-0.20	0.13	0.77	0.75	0.79	0.75	0.79	0.81	0.81	-0.75	0.36	-0.82	0.35	0.87	-0.56	0.30	0.37	-0.24	-0.27	0.43	0.88	V11
V12	0.07	-0.57	0.36	0.17	-0.43	-0.47	-0.44	-0.49	-0.33	-0.74	-0.45	-0.71	-0.58	0.15	0.04	0.20	0.84	-0.36	0.11	-0.30	-0.70	-0.65	-0.68	-0.58	-0.73	-0.69	-0.70	0.87	-0.13	0.69	-0.25	-0.74	0.52	-0.19	-0.28	0.24	0.14	-0.42	-0.87	V12
V13	0.03	-0.59	0.35	0.27	-0.78	-0.68	-0.78	-0.54	-0.68	-0.62	-0.85	-0.86	-0.52	-0.02	0.24	0.03	0.69	-0.54	0.09	-0.04	-0.78	-0.75	-0.86	-0.83	-0.84	-0.80	-0.80	0.62	-0.46	0.85	-0.34	-0.88	0.59	-0.33	-0.34	0.31	0.31	-0.37	-0.83	V13
V14	-0.06	-0.65	0.33	0.16	-0.70	-0.60	-0.72	-0.46	-0.68	-0.54	-0.88	-0.77	-0.29	0.00	0.15	0.12	0.56	-0.54	0.06	-0.01	-0.82	-0.85	-0.93	-0.92	-0.90	-0.72	-0.72	0.51	-0.44	0.86	-0.29	-0.81	0.55	-0.31	-0.29	0.32	0.21	-0.37	-0.80	V14
V15	0.08	-0.58	0.42	0.14	-0.42	-0.51	-0.41	-0.45	-0.34	-0.67	-0.52	-0.68	-0.48	0.10	0.17	0.17	0.84	-0.48	0.28	-0.28	-0.69	-0.69	-0.77	-0.72	-0.78	-0.69	-0.70	0.78	-0.20	0.75	-0.35	-0.72	0.41	-0.27	-0.37	0.08	0.16	-0.53	-0.86	V15
V16	0.08	-0.54	0.44	0.17	-0.52	-0.56	-0.48	-0.57	-0.45	-0.76	-0.59	-0.76	-0.53	-0.01	0.18	0.21	0.89	-0.54	0.30	-0.35	-0.77	-0.74	-0.77	-0.72	-0.78	-0.69	-0.70	0.80	-0.28	0.80	-0.35	-0.73	0.41	-0.32	-0.36	0.11	0.28	-0.46	-0.86	V16
V17	0.09	-0.66	0.47	0.29	-0.65	-0.56	-0.59	-0.55	-0.50	-0.66	-0.67	-0.69	-0.45	-0.03	0.26	0.15	0.76	-0.48	0.21	-0.11	-0.83	-0.82	-0.85	-0.82	-0.85	-0.84	-0.84	0.71	-0.43	0.91	-0.43	-0.80	0.41	-0.38	-0.46	0.10	0.25	-0.49	-0.87	V17
V18	0.26	0.66	-0.07	-0.12	0.74	0.74	0.82	0.56	0.77	0.72	0.88	0.83	0.53	0.29	-0.09	0.11	-0.63	0.56	0.11	0.00	0.72	0.68	0.78	0.74	0.78	0.81	0.81	-0.51	0.56	-0.74	0.13	0.74	-0.64	0.16	0.13	-0.44	-0.25	0.11	0.80	V18
V19	-0.28	-0.16	-0.29	-0.36	0.33	0.08	0.28	0.43	0.13	0.21	0.03	0.23	0.32	0.03	-0.11	-0.13	-0.13	-0.16	0.06	-0.09	0.30	0.10	0.00	-0.10	0.09	0.33	0.33	-0.16	0.26	-0.18	0.00	0.22	-0.22	0.06	-0.02	-0.29	-0.27	-0.14	0.09	V19
V20	0.13	0.05	0.12	-0.14	0.32	0.02	0.32	0.11	0.30	-0.08	0.30	-0.05	-0.17	0.21	-0.08	0.11	0.37	-0.03	0.44	-0.38	0.19	0.14	0.12	0.08	0.13	0.12	0.12	0.32	0.40	-0.16	-0.09	0.01	-0.10	0.02	-0.14	-0.30	-0.02	-0.26	-0.10	V20
V21	-0.29	0.02	-0.40	-0.43	0.51	0.21	0.46	0.60	0.27	0.33	0.21	0.33	0.40	0.08	-0.20	-0.08	-0.26	-0.01	0.00	-0.14	0.45	0.27	0.20	0.09	0.28	0.52	0.53	-0.30	0.39	-0.42	0.12	0.44	-0.33	0.18	0.09	-0.30	-0.41	-0.01	0.27	V21
V22	0.14	0.49	-0.04	-0.28	0.75	0.70	0.77	0.60	0.82	0.66	0.85	0.83	0.56	0.32	-0.19	0.13	-0.58	0.53	0.12	0.08	0.64	0.54	0.70	0.64	0.72	0.77	0.77	-0.40	0.61	-0.65	0.11	0.67	-0.59	0.16	0.08	-0.47	-0.40	0.04	0.69	V22
V23	0.10	0.39	-0.24	-0.21	0.64	0.43	0.59	0.30	0.59	0.20	0.60	0.45	0.24	0.31	-0.17	0.08	-0.19	0.45	0.23	-0.40	0.60	0.56	0.56	0.59	0.51	0.58	0.57	0.01	0.68	-0.65	0.16	0.39	-0.25	0.21	0.14	-0.24	-0.14	0.06	0.34	V23
V24	0.21	0.18	0.15	-0.31	0.68	0.52	0.70	0.35	0.79	0.33	0.66	0.50	0.32	0.48	-0.10	0.25	-0.08	0.41	0.48	-0.31	0.39	0.26	0.40	0.36	0.41	0.51	0.51	0.14	0.73	-0.36	-0.14	0.30	-0.44	-0.02	-0.19	-0.57	-0.26	-0.32	0.24	V24
V25	0.08	-0.46	0.38	0.35	-0.73	-0.69	-0.75	-0.61	-0.62	-0.74	-0.65	-0.85	-0.68	-0.06	0.12	0.05	0.77	-0.47	0.00	-0.09	-0.78	-0.66	-0.72	-0.63	-0.76	-0.84	-0.85	0.68	-0.46	0.78	-0.22	-0.84	0.64	-0.24	-0.22	0.45	0.29	-0.24	-0.81	V25
V26	0.02	-0.57	0.36	0.31	-0.80	-0.69	-0.80	-0.63	-0.69	-0.72	-0.79	-0.88	-0.66	-0.10	0.17	0.03	0.77	-0.53	0.06	-0.06	-0.79	-0.72	-0.79	-0.73	-0.81	-0.87	-0.88	0.67	-0.50	0.83	-0.27	-0.89	0.66	-0.27	-0.27	0.41	0.35	-0.27	-0.85	V26
V27	0.34	0.66	-0.15	0.17	0.23	0.33	0.29	0.39	0.20	0.59	0.30	0.56	0.56	0.21	0.23	-0.07	-0.69	0.23	-0.06	0.14	0.61	0.59	0.52	0.46	0.54	0.60	0.60	-0.57	0.26	-0.50	0.08	0.44	-0.37	0.05	0.09	-0.17	-0.02	0.21	0.69	V27
V28	0.09	0.51	-0.18	-0.30	0.74	0.71	0.76	0.67	0.81	0.79	0.81	0.86	0.61	0.34	-0.21	0.05	-0.71	0.59	0.12	0.05	0.79	0.66	0.80	0.72	0.83	0.90	0.90	-0.50	0.67	-0.78	0.14	0.68	-0.56	0.18	0.13	-0.44	-0.36	0.11	0.78	V28
V29	-0.06	0.57	-0.35	-0.24	0.63	0.67	0.59	0.51	0.59	0.70	0.70	0.84	0.56	0.06	-0.26	-0.09	-0.84	0.57	-0.16	0.15	0.72	0.69	0.82	0.80	0.80	0.80	0.80	-0.69	0.39	-0.79	0.33	0.76	-0.46	0.27	0.36	-0.15	-0.29	0.41	0.87	V29
V30	0.08	0.57	-0.22	-0.31	0.79	0.69	0.78	0.63	0.83	0.72	0.87	0.84	0.56	0.32	-0.27	0.07	-0.67	0.63	0.11	-0.06	0.80	0.70	0.86	0.81	0.86	0.90	0.90	-0.48	0.69	-0.82	0.23	0.74	-0.54	0.25	0.22	-0.39	-0.35	0.18	0.77	V30
V31	-0.09	0.51	-0.40	-0.31	0.64	0.66	0.63	0.65	0.61	0.79	0.70	0.83	0.54	0.05	-0.31	-0.10	-0.83	0.48	-0.09	0.17	0.80	0.70	0.82	0.75	0.83	0.84	0.85	-0.77	0.40	-0.83	0.32	0.78	-0.49	0.30	0.33	-0.23	-0.30	0.38	0.88	V31
V32	-0.23	0.47	-0.45	-0.34	0.68	0.58	0.60	0.44	0.52	0.54	0.59	0.75	0.59	-0.13	-0.33	0.04	-0.74	0.60	-0.13	0.08	0.59	0.56	0.71	0.70	0.69	0.70	0.70	-0.65	0.31	-0.80	0.38	0.78	-0.44	0.29	0.43	-0.11	-0.31	0.47	0.73	V32
V33	0.06	0.63	-0.17	-0.08	0.59	0.43	0.57	0.37	0.57	0.52	0.59	0.57	0.49	0.02	-0.13	0.04	-0.59	0.57	-0																					

Table 99: Correlation matrix for SLAs in the CNAHS ...cont

	V40	V41	V42	V43	V44	V45	V46	V47	V48	V49	V50	V51	V52	V53	V54	V55	V56	V57	V58	V59	V60	V61	V62	V63	V64	V65	V66	V67	V68	V69	V70	V71	V72	V73	V74	V75	V77	V78	V79		
V40	1.00	0.47	0.66	0.68	-0.04	-0.03	0.15	-0.06	0.18	0.11	0.22	-0.03	-0.01	0.49	0.56	0.37	0.17	0.07	0.40	-0.14	0.08	0.16	0.06	0.07	0.06	0.03	0.03	0.23	0.23	0.12	-0.35	-0.13	-0.21	-0.26	-0.39	-0.38	0.34	-0.39	0.00	V40	
V41	0.47	1.00	0.09	0.21	0.41	0.30	0.46	0.36	0.44	0.46	0.60	0.50	0.35	0.18	0.09	0.10	-0.43	0.38	0.21	-0.05	0.64	0.74	0.71	0.69	0.71	0.59	0.59	-0.40	0.38	-0.66	0.11	0.52	-0.43	0.09	0.12	-0.25	0.02	0.26	0.71	V41	
V42	0.66	0.09	1.00	0.35	-0.34	-0.17	-0.17	-0.30	0.02	-0.21	-0.08	-0.28	-0.19	0.30	0.35	0.56	0.47	-0.11	0.63	0.01	-0.37	-0.35	-0.28	-0.28	-0.26	-0.37	-0.37	0.49	-0.04	0.49	-0.51	-0.48	0.01	-0.43	-0.53	-0.25	0.32	-0.52	-0.28	V42	
V43	0.68	0.21	0.35	1.00	-0.30	-0.38	-0.27	-0.17	-0.27	-0.06	-0.18	-0.27	-0.18	0.11	0.46	-0.02	0.23	-0.24	0.02	-0.06	-0.18	-0.01	-0.17	-0.16	-0.17	-0.26	-0.26	0.14	-0.19	0.31	-0.15	-0.29	0.16	-0.13	-0.16	0.02	0.38	-0.10	-0.23	V43	
V44	-0.04	0.41	-0.34	-0.30	1.00	0.63	0.93	0.52	0.77	0.55	0.80	0.72	0.53	0.18	-0.40	0.01	-0.45	0.60	-0.01	-0.28	0.59	0.59	0.67	0.64	0.67	0.77	0.77	-0.38	0.61	-0.76	0.52	0.81	-0.54	0.50	0.55	-0.43	-0.49	0.36	0.60	V44	
V45	-0.03	0.30	-0.17	-0.38	0.63	1.00	0.78	0.34	0.70	0.48	0.66	0.74	0.49	0.12	-0.16	0.20	-0.53	0.51	0.06	-0.02	0.50	0.40	0.57	0.56	0.56	0.62	0.63	-0.32	0.49	-0.58	0.06	0.55	-0.70	0.03	0.09	-0.54	-0.25	0.15	0.58	V45	
V46	0.15	0.46	-0.17	-0.27	0.93	0.78	1.00	0.43	0.82	0.49	0.83	0.74	0.51	0.19	-0.07	0.15	-0.41	0.51	0.09	-0.22	0.63	0.58	0.67	0.64	0.66	0.73	0.73	-0.28	0.64	-0.69	0.10	0.78	-0.72	0.15	0.08	-0.58	-0.25	0.00	0.62	V46	
V47	-0.06	0.36	-0.30	-0.17	0.52	0.34	0.43	1.00	0.36	0.65	0.42	0.50	0.46	0.23	-0.21	-0.03	-0.56	0.26	-0.13	0.01	0.64	0.51	0.47	0.34	0.57	0.70	0.70	-0.57	0.38	-0.61	0.18	0.53	-0.37	0.20	0.16	-0.24	-0.55	0.19	0.55	V47	
V48	0.18	0.44	0.02	-0.27	0.77	0.70	0.82	0.36	1.00	0.53	0.84	0.69	0.41	0.31	-0.12	0.21	-0.37	0.63	0.28	-0.16	0.56	0.48	0.68	0.66	0.66	0.68	0.68	-0.16	0.68	-0.60	0.07	0.60	-0.55	0.14	0.04	-0.56	-0.21	-0.07	0.54	V48	
V49	0.11	0.46	-0.21	-0.06	0.55	0.48	0.49	0.65	0.53	1.00	0.52	0.61	0.56	0.30	-0.08	-0.11	-0.73	0.50	0.01	0.07	0.58	0.52	0.56	0.43	0.65	0.77	0.78	-0.73	0.35	-0.58	0.28	0.62	-0.36	0.28	0.28	-0.26	-0.28	0.20	0.69	V49	
V50	0.22	0.60	-0.08	-0.18	0.80	0.66	0.83	0.42	0.84	0.52	1.00	0.75	0.29	0.23	-0.20	0.11	-0.40	0.56	0.15	-0.08	0.68	0.69	0.84	0.84	0.81	0.70	0.70	-0.31	0.59	-0.76	0.21	0.70	-0.53	0.25	0.18	-0.40	-0.24	0.16	0.66	V50	
V51	-0.03	0.50	-0.28	-0.27	0.72	0.74	0.74	0.50	0.69	0.61	0.75	1.00	0.72	0.09	-0.17	0.01	-0.77	0.55	0.03	0.11	0.70	0.61	0.78	0.74	0.78	0.78	0.78	-0.52	0.51	-0.74	0.12	0.71	-0.62	0.11	0.13	-0.38	-0.28	0.23	0.80	V51	
V52	-0.01	0.35	-0.19	-0.18	0.53	0.49	0.51	0.46	0.41	0.56	0.29	0.72	1.00	0.27	-0.06	0.04	-0.75	0.50	-0.04	0.06	0.42	0.30	0.37	0.29	0.42	0.70	0.70	-0.39	0.51	-0.46	0.08	0.50	-0.44	0.04	0.10	-0.31	-0.29	0.08	0.55	V52	
V53	0.49	0.18	0.30	0.11	0.18	0.12	0.19	0.23	0.31	0.30	0.23	0.09	0.27	1.00	0.12	0.29	-0.08	0.30	0.15	-0.27	0.11	0.07	0.03	0.02	0.05	0.38	0.37	0.27	0.66	-0.03	-0.08	-0.10	0.03	0.01	-0.12	-0.14	-0.17	-0.43	-0.05	V53	
V54	0.56	0.09	0.35	0.46	-0.40	-0.16	-0.07	-0.21	-0.12	-0.08	-0.20	-0.17	-0.06	0.12	1.00	0.14	0.19	-0.19	0.11	0.01	-0.01	0.01	-0.25	-0.26	-0.22	-0.20	-0.20	0.24	-0.05	0.36	-0.58	-0.21	-0.35	-0.53	-0.60	-0.50	0.45	-0.47	-0.23	V54	
V55	0.37	0.10	0.56	-0.02	0.01	0.20	0.15	-0.03	0.21	-0.11	0.11	0.01	0.04	0.29	0.14	1.00	0.21	0.17	0.48	-0.06	-0.13	-0.17	-0.03	-0.03	-0.03	-0.02	-0.02	0.26	0.18	0.10	-0.21	-0.07	-0.14	-0.15	-0.24	-0.21	0.20	-0.18	-0.08	V55	
V56	0.17	-0.43	0.47	0.23	-0.45	-0.53	-0.41	-0.56	-0.37	-0.73	-0.40	-0.77	-0.75	-0.08	0.19	0.21	1.00	-0.49	0.26	-0.31	-0.63	-0.52	-0.60	-0.54	-0.62	-0.76	-0.76	0.76	-0.30	0.69	-0.26	-0.63	0.39	-0.19	-0.29	0.11	0.30	-0.33	-0.76	V56	
V57	0.07	0.38	-0.11	-0.24	0.60	0.51	0.51	0.26	0.63	0.50	0.56	0.55	0.50	0.30	-0.19	0.17	-0.49	1.00	0.00	-0.03	0.40	0.44	0.55	0.55	0.52	0.59	0.59	-0.27	0.48	-0.57	0.26	0.50	-0.25	0.26	0.27	-0.12	-0.39	0.19	0.50	V57	
V58	0.40	0.21	0.63	0.02	-0.01	0.06	0.09	-0.13	0.28	0.01	0.15	0.03	-0.04	0.15	0.11	0.48	0.26	0.00	1.00	-0.25	-0.09	-0.16	-0.01	-0.03	0.01	-0.09	-0.09	0.22	0.08	0.14	-0.37	-0.17	-0.17	-0.30	-0.38	-0.39	0.37	-0.34	-0.01	V58	
V59	-0.14	-0.05	0.01	-0.06	-0.28	-0.02	-0.22	0.01	-0.16	0.07	-0.08	0.11	0.06	-0.27	0.01	-0.06	-0.31	-0.03	-0.25	1.00	0.05	0.01	0.04	0.01	0.06	-0.07	-0.06	-0.28	-0.30	-0.01	-0.10	-0.06	-0.03	-0.09	-0.11	0.03	-0.03	0.15	0.15	V59	
V60	0.08	0.64	-0.37	-0.18	0.59	0.50	0.63	0.64	0.56	0.58	0.68	0.70	0.42	0.11	-0.01	-0.13	-0.63	0.40	-0.09	0.05	1.00	0.93	0.84	0.79	0.85	0.83	0.84	-0.51	0.58	-0.85	0.13	0.70	-0.59	0.15	0.12	-0.41	-0.22	0.21	0.78	V60	
V61	0.16	0.74	-0.35	-0.01	0.59	0.40	0.58	0.51	0.48	0.52	0.69	0.61	0.30	0.07	0.01	-0.17	-0.52	0.44	-0.16	0.01	0.93	1.00	0.87	0.84	0.85	0.85	0.77	0.77	-0.49	0.52	-0.84	0.25	0.70	-0.47	0.26	0.25	-0.26	-0.19	0.36	0.76	V61
V62	0.06	0.71	-0.28	-0.17	0.67	0.57	0.67	0.47	0.68	0.56	0.84	0.78	0.37	0.03	-0.25	-0.03	-0.60	0.55	-0.01	0.04	0.84	0.87	1.00	0.97	0.98	0.78	0.78	-0.51	0.52	-0.89	0.31	0.76	-0.48	0.30	0.31	-0.26	-0.19	0.44	0.86	V62	
V63	0.07	0.69	-0.28	-0.16	0.64	0.56	0.64	0.34	0.66	0.43	0.84	0.74	0.29	0.02	-0.26	-0.03	-0.54	0.55	-0.03	0.01	0.79	0.84	0.97	1.00	0.90	0.71	0.71	-0.42	0.51	-0.87	0.31	0.70	-0.42	0.30	0.32	-0.19	-0.15	0.43	0.79	V63	
V64	0.06	0.71	-0.26	-0.17	0.67	0.56	0.66	0.57	0.66	0.65	0.81	0.78	0.42	0.05	-0.22	-0.03	-0.62	0.52	0.01	0.06	0.85	0.85	0.98	0.90	1.00	0.81	0.81	-0.57	0.51	-0.87	0.29	0.77	-0.51	0.29	0.29	-0.31	-0.22	0.43	0.88	V64	
V65	0.03	0.59	-0.37	-0.26	0.77	0.62	0.73	0.70	0.68	0.77	0.70	0.78	0.70	0.38	-0.20	-0.02	-0.76	0.59	-0.09	-0.07	0.83	0.77	0.78	0.71	0.81	1.00	1.00	-0.54	0.75	-0.85	0.30	0.75	-0.49	0.29	0.30	-0.31	-0.40	0.22	0.78	V65	
V66	0.03	0.59	-0.37	-0.26	0.77	0.63	0.73	0.70	0.68	0.78	0.70	0.78	0.70	0.37	-0.20	-0.02	-0.76	0.59	-0.09	-0.06	0.84	0.77	0.78	0.71	0.81	1.00	1.00	-0.55	0.75	-0.85	0.29	0.75	-0.49	0.29	0.29	-0.32	-0.40	0.22	0.79	V66	
V67	0.23	-0.40	0.49	0.14	-0.38	-0.32	-0.28	-0.57	-0.16	-0.73	-0.31	-0.52	-0.39	0.27	0.24	0.26	0.76	-0.27	0.22	-0.28	-0.51	-0.49	-0.51	-0.42	-0.57	-0.54	1.00	0.14	0.64	-0.44	-0.70	0.28	-0.36	-0.48	-0.04	0.28	-0.55	-0.75	V67		
V68	0.23	0.38	-0.04	-0.19	0.61	0.49	0.64	0.38	0.68	0.35	0.59	0.51	0.51	0.66	-0.05	0.18	-0.30	0.48	0.08	-0.30	0.58	0.52	0.52	0.51	0.51	0.75	0.75	0.14	1.00	-0.49	-0.01	0.34	-0.36	0.05	-0.04	-0.41	-0.24	-0.18			

## APPENDIX

More detailed definitions and data sources are on the PHIDU web site pages associated with this atlas at [www.publichealth.gov.au](http://www.publichealth.gov.au).

**Table A1: Data definitions for demography and socioeconomic status indicators**

Topic and variable name	Numerator	Denominator
<b>Demography</b>		
children aged 0 to 4 yrs	all children aged from 0 to 4 yrs	total population
children aged 5 to 14 yrs	all children aged from 5 to 14 yrs	total population
young people aged 15 to 24 yrs	all young people aged from 15 to 24 yrs	total population
people aged 65 yrs and over	all people aged 65 yrs and over	total population
<b>Families</b>		
single parent families	single parent families with children under 15	all families
low income families <sup>1</sup>	families with income less than \$26,000 p.a. [\$500 per week]	all families with an income
jobless families with children aged under 15 yrs	families with children under 15 yrs in which no parent is employed	all families with children under 15 yrs
high income families <sup>2</sup>	families with income of \$62,400 or more p.a. [\$1,200 per week]	all families with an income
<b>Labour force</b>		
unemployment	population 15-64 yrs unemployed	population 15-64 yrs in labour force
unskilled and semi-skilled workers	intermediate production & transport workers; labourers & related workers	employed labour force
female labour force participation	females 20-54 yrs in the labour force	females 20 to 54 yrs
high status occupations <sup>2</sup>	managers & administrators; professionals	employed labour force
<b>Education</b>		
participation at age 16 yrs	people aged 16 years participating in full-time secondary education	all 16 year olds
<b>Technology</b>		
people who used the Internet at home	people who used the Internet at home in a one-week period	total population
<b>Indigenous status</b>		
Aboriginal and Torres Strait Islander people	people identifying in the Census as Aboriginal and/or Torres Strait Islanders	total population
<b>People born in predominantly non-English speaking countries</b>		
resident for 5 yrs or more	number born in predominately non-English speaking countries, resident for 5 yrs or more	total population
resident for less than 5 yrs	number born in predominately non-English speaking countries, resident for less than 5 yrs	total population
proficiency in English	people aged 5 yrs and over born in predominately non-English speaking countries who speak English 'not well' or 'not at all'	population aged 5 yrs and over
<b>Housing</b>		
public rental dwellings	occupied private dwellings rented from the State housing authority	all occupied private dwellings
rent assistance	renters receiving assistance from Centrelink	all households
<b>Transport</b>		
dwellings with no motor vehicle	occupied private dwellings with no motor vehicle garaged or parked on Census night	all occupied private dwellings

<sup>1</sup>When interpreting the figures for low income families in the text, it should be noted that the indicators of low income used in the comparisons (\$12,000 per annum or less in 1986, \$16,000 per annum or less in 1991, and \$21,000 per annum or less in 1996) do not equate to equivalent incomes and have thus not been adjusted based on changes to buying power. Rather, they are based on categories of income available from the Census and denote comparability of income in 1986, 1991, 1996 and 2001, based on levels of income of recipients of the sole parents' pension and unemployment benefits.

<sup>2</sup>These variables were not mapped but are included in the correlation analysis.

<sup>3</sup>Also referred to as Aboriginal people, and the Indigenous population.

Source: Compiled from project sources

**Table A2: Data sources for indicators**

Section	Data source
Demography and socioeconomic status	Data largely from the ABS Basic Community or Usual Residents Profiles, 2001: exceptions are <ul style="list-style-type: none"> <li>- jobless families and educational participation variables (purchased from ABS)</li> <li>- the IRSD (from SEIFA database, supplied by ABS)</li> <li>- the SACE achievement scores, supplied by SSABSA</li> <li>- and the Total Fertility Rate (calculated from births data from ABS).</li> </ul>
Income support	Data were purchased from Centrelink.
Health status and risk factors	Perinatal data (low birthweight, pregnancy outcomes, termination of pregnancy and smoking in pregnancy) from Pregnancy Outcome Unit, Epidemiology Branch, Department of Health SA Immunisation data from National Centre for Immunisation Research and Surveillance, The New Childrens Hospital, Westmead Childhood overweight and obesity from Child and Youth Health at the Children, Youth and Women's Health Service Dental health from SA Dental Service Chronic disease and injury prevalence estimates/ self-reported health/ risk factor prevalence produced by Australian Bureau of Statistics, in conjunction with PHIDU Cancer incidence from Health Statistics Unit, Epidemiology Branch, Department of Health SA Premature and avoidable mortality calculated from deaths data from the Australian Bureau of Statistics
Use of services	Primary health and community-based services: <ul style="list-style-type: none"> <li>- Community health, community mental health and Child and Adolescent Mental Health Services data from Data Management Unit, Department of Health SA</li> <li>- Department for Families and Communities data from the Department</li> </ul> Screening test services: <ul style="list-style-type: none"> <li>- Breast screening participation and outcomes data from BreastScreen SA</li> <li>- Cervical screening participation and outcomes data from SA Cervix Screening program</li> </ul> Home and community care <ul style="list-style-type: none"> <li>- Data for domiciliary care service clients from Department for Families and Communities</li> <li>- Home nursing from RDNS and home delivered meals from Meals on Wheels</li> </ul> General medical practitioners: <ul style="list-style-type: none"> <li>- GP services from Health Insurance Commission</li> <li>- Data for population per GP from Health Insurance Commission (GPs) and ABS (population)</li> </ul> Emergency department attendances data from Emergency Department Collection Outpatient department attendances estimated from data from OACIS and MMSS Private health insurance data from Hansard Admissions data from ISAAC



## BIBLIOGRAPHY

More detailed definitions and data sources are on the PHIDU web site pages associated with this atlas at

1. DHS (Department of Human Services) 2003. *Better Choices, Better Health* - Final Report of the South Australian Generational Health Review, April 2003. At

<http://www.sahealthreform.sa.gov.au/DesktopDefault.aspx?tabid=25> (accessed 27 October 2004)

2. Frankish J, Green LW, Ratner PA, Chomik T and Larsen C 1996. *Health Impact Assessment as a Tool for Population Health Promotion and Public Policy*. Report for the Institute of Health Promotion Research, University of British Columbia, May 1996.

3. Byrne D 2004. *Enabling good health for all*. European Commissioner for Health and Consumer Protection. At [http://europa.eu.int/comm/health/ph\\_overview/Documents/byrne\\_reflection\\_en.pdf](http://europa.eu.int/comm/health/ph_overview/Documents/byrne_reflection_en.pdf) (accessed 22 July 2004).

4. Evans R and Stoddart G 1990. Consuming health care, producing health. *Social Science and Medicine* 331(12): 489-500.

5. CIHI (Canadian Institute for Health Information) 2004. *Improving the health of Canadians*. CIHI: Ottawa, Ontario.

6. Dahlgren G and Whitehead M 1991. *Policies and strategies to promote social equity in health*. Stockholm: Institute of Future Studies.

7. McMichael A 2005. *Widening Our Horizons: "Environment" as Life-Support*. Presentation to the SA Department of Health, Adelaide, 15 August 2005.

8. Halfon N and Hochstein M 2002. Life course health development: An integrated framework for developing health, policy, and research. *The Milbank Quarterly* 80(3): 433-79.

9. Bronfenbrenner U and Ceci SJ 1994. Nature-nurture reconceptualized: A bio-ecological model. *Psychological Review* 101(4), 568-586.

10. DCPC (Developmental Crime Prevention Consortium) 1999. *Pathways to prevention: developmental and early intervention approaches to crime in Australia*. Canberra: Commonwealth of Australia.

11. HC (Health Canada) 1997. *Population health in Canada: A working paper*. Ottawa: Health Canada.

12. Frank JW and Mustard JF 1994. The determinants of health from a historical perspective. *Daedalus – Journal of the American Academy of Arts and Sciences* 123(4): 1-19.

13. Keating DP and Hertzman C (eds.) 1999. *Developmental Health and the Wealth of Nations: Social, Biological and Educational Dynamics*. New York: The Guilford Press.

14. Najman JM, Aird R, Bor W, O'Callaghan M, Williams GM and Shuttlewood GJ 2004. The generational transmission of socioeconomic inequalities in child cognitive development and emotional health. *Social Science and Medicine* 58 (6): 1147-1158.

15. WHO (World Health Organization) 2003. *The Social Determinants of Health: The Solid Facts*. Wilkinson R and Marmot M (eds.). [2<sup>nd</sup>. Ed.] Geneva: World Health Organization.

16. DH (SA Department of Health) 2005. Draft population health framework – September 2005 (unpublished).

17. NAHSWP (National Aboriginal Health Strategy Working Party) 1989. *A National Aboriginal Health Strategy*. Canberra: NAHSWP.

18. Devitt J, Hall G and Tsey K 2001. *An introduction to the social determinants of health in relation to the Northern Territory Indigenous population*. Occasional paper for the Cooperative Research Centre for Aboriginal and Tropical Health (CRCATH), Issue no. 6.

19. ABS and AIHW (Australian Bureau of Statistics and Australian Institute of Health and Welfare) 2003. *The Health and Welfare of Australia's Aboriginal and Torres Strait Islander Peoples 2003*. (ABS Catalogue no. 4704.0; AIHW Catalogue no. IHW11). Canberra: AusInfo.

20. Harris E, Nutbeam D, Sainsbury P, King L and Whitecross P 1999. Finding a Way Forward. In Harris E, Sainsbury P and Nutbeam D (eds.) *Perspectives on Health Inequity*. Sydney: University of Sydney, Australian Centre for Health Promotion; pp. 146-59.
21. RACGP (Royal Australian College of General Practitioners) 2002. *Health Care for Refugees and Asylum Seekers – Policy position*. At <http://www.racgp.org.au/document.asp?id=6484> (accessed 29 June 2004).
22. ABS (Australian Bureau of Statistics) 2003. *Deaths, Australia 2003*, Catalogue no. 3302.0, ABS, Canberra.
23. Sainsbury P, Harris E. Health inequalities: Something old, something new. *N S W Public Health Bull* 2001; 12: 117-119. Available at [www.health.nsw.gov.au/public-health/phb/phb.html](http://www.health.nsw.gov.au/public-health/phb/phb.html)
24. Braveman PA 2003. Monitoring equity in health and healthcare: a conceptual framework. *Journal of Health and Population Nutrition* 21(3):181-192.
25. Dahlgren G and Whitehead M 1992. *Policies and strategies to promote equity in health*. Copenhagen: Regional Office for Europe, World Health Organization.
26. Shaw R, Dolan P, Tsuchiya A, Williams A, Smith P and Burrows R 2001. *Development of a questionnaire to elicit people's preferences regarding health inequalities*. Occasional Paper, York: Centre for Health Economics, University of York.
27. Braveman P, Krieger N and Lynch J 2000. Health inequalities and social inequalities in health. *Bulletin of the World Health Organization* 78: 2, 232–4.
28. Shaw R, Dolan P, Tsuchiya A, Williams A, Smith P and Burrows R 2001. *Development of a questionnaire to elicit people's preferences regarding health inequalities*. Occasional Paper, York: Centre for Health Economics, University of York.
29. Braveman P, Krieger N and Lynch J 2000. Health inequalities and social inequalities in health. *Bulletin of the World Health Organization* 78: 2, 232–4.
30. Graham H and Kelly MP 2004. *Health inequalities: concepts, frameworks and policy*. London: Health Development Agency.
31. Preston C 1999. Social inequality, prejudice and discrimination. In *Culturescope* 61. At: <http://hsc.csu.edu.au/pta/scansw/socineq.html> (accessed 4 September 2003).
32. Najman JM 1993. *Health and Poverty: Past, Present and Prospects for the Future*. *Social Science & Medicine* 36(2):157-166.
33. Hetzel D, Page A, Glover J and Tennant S 2004. *Inequality in South Australia – Key determinants of wellbeing*. Volume 1: The Evidence. Adelaide: Department of Health (DH) (SA). At <http://www.publichealth.gov.au/> (accessed 28 March 2005).
34. CSAES (Centre for South Australian Economic Studies) 1993. *The Impact of Socio-Economic and Locational Disadvantage on Health Outcomes and Cost*. Social Justice Research Program into Locational Disadvantage – Report no. 10. Department of Health, Housing, Local Government and Community Services: AGPS, Canberra.
35. Glover J, Harris K and Tennant S 1999. *A Social Health Atlas of Australia series* (2nd ed.). OpenBook Publishers: Adelaide. At <http://www.publichealth.gov.au/> (accessed 28 March 2004).
36. ABS and AIHW (Australian Bureau of Statistics and Australian Institute of Health and Welfare) 2005. *The Health and Welfare of Australia's Aboriginal and Torres Strait Islander Peoples 2005*. (ABS Catalogue no. 4704.0; AIHW Catalogue no. IHW11). Canberra: AusInfo.
37. DAARE (South Australian Department for Aboriginal Affairs and Reconciliation) 2003. *Doing it right: The South Australian Government's commitment to Aboriginal families and communities in South Australia*. DAARE, May 2003.
38. SA Government 2003. *An Indigenous Profile - Comparing the Indigenous with the non-Indigenous population in South Australia*. (Unpublished).

39. NATSIHC (National Aboriginal and Torres Strait Islander Health Council) 2003. *National Strategic Framework for Aboriginal and Torres Strait Islander Health: Framework for action by Governments, July 2003*. Canberra: NATSIHC.
40. McKendrick JH and Thorpe M 1998. The legacy of colonisation: trauma, loss and psychological distress amongst Aboriginal people. *Grief Matters*, September 1998.
41. Robinson G 2002. *Social determinants of Aboriginal Health*. Paper presented at the 'Inequality and health - a North Australian perspective'. The Cooperative Research Centre for Aboriginal and Tropical Health (CRCATH) seminar series, Darwin Centre for Social Research, Northern Territory University, 8 April - 24 June 2002.
42. Ring I 1995. An open letter to the President of the Public Health Association. *Australian Journal of Public Health* 19 (3): 228-30.
43. Devitt J, Hall G and Tsey K 2001. *An introduction to the social determinants of health in relation to the Northern Territory Indigenous population*. Occasional paper for the Cooperative Research Centre for Aboriginal and Tropical Health (CRCATH), Issue no. 6.
44. SA Department of Health 2005. *Aboriginal health, everybody's business: knowing the business*. DoH: Adelaide.
45. AIHW (Australian Institute of Health and Welfare) 2002. *Chronic Diseases and Associated Risk Factors in Australia 2001*. AIHW Cat. No. PHE-33. Canberra: AIHW.
46. DH (SA Department of Health) 2004. South Australian Burden of Disease website, Government of South Australia. At <http://www.health.sa.gov.au/burdenofdisease/DesktopDefault.aspx?tabid=30> (accessed 7 June 2005)
47. McCallum J 1999. *The new morbidity picture: substitution versus compression?* Compression of Morbidity Workshop Papers, Occasional Papers Series No. 4, Department of Health and Ageing: Canberra; pp 57-68. At <http://www.health.gov.au/pubs/hfsocc/hacocc4.pdf> (accessed on 23 March 2004).
48. Thacker S, Stroup D and Rothenberg R 1995. Public health surveillance for chronic conditions: a scientific basis for decisions. *Statistics in Medicine* 14:629-641.
49. Ackland M, Choi BC and Puska P 2003. Rethinking the terms non-communicable disease and chronic disease. *Journal of Epidemiology and Community Health* 57:838-9.
50. NPHP (National Public Health Partnership) 2001. *Preventing Chronic Disease: A Strategic Framework*. Melbourne, Victoria; 2001.
51. Mooney G 2003. Inequity in Australian health care: how do we progress from here? *Australian and New Zealand Journal of Public Health* 27:267-270.
52. Glover JD, Hetzel DMS and Tennant SK 2004. The socioeconomic gradient and chronic illness and associated risk factors in Australia. *Australia and New Zealand Health Policy* 1:8, December.
53. Jarvis MJ and Wardle J 1999. Social patterning of individual health behaviours: the case of cigarette smoking. In: Marmot M, Wilkinson R, eds. *Social Determinants of Health*. Oxford, England: Oxford University Press Inc; pp 240-255.
54. Graham H 2004. Tackling Inequalities in Health in England: Remedying Health Disadvantages, Narrowing Health Gaps or Reducing Health Gradients? *Journal of Social Policy* 33(1): 115-131.
55. Wagstaff A, Paci P and Doorslaer EV 1991. On the measurement of inequalities in health. *Social Science and Medicine* 33:545-557.
56. Manor O, Matthews S and Power C 1997. Comparing measures of health inequality. *Social Science and Medicine* 45:761-71.
57. Davey Smith G, Gunnell D and Ben-Shlomo Y 2001. Life course approaches to socio-economic differentials in cause-specific adult mortality. In Leon D, Walt G (eds). *Poverty, Inequality and Health*. Oxford: OUP.
58. Keating DP and Hertzman C (eds.) 1999. *Developmental Health and the Wealth of Nations: Social, Biological and Educational Dynamics*. New York: The Guilford Press.

59. Stanley F, Sanson A and McMichael T 2002. New ways of causal pathways thinking for public health. In *Children's Health and Development: new research directions for Australia*. (Sanson A, ed.) Australian Institute of Family Studies (AIFS). Australian Institute of Family Studies: Commonwealth of Australia.
60. ABS (Australian Bureau of Statistics) 2004. *Australian Labour Market Statistics – July 2004*. (ABS Cat. no. 6105.0).
61. DSF (Dusseldorp Skills Forum) 2003. *How Young People are Faring: Key Indicators 2003*. New South Wales: DSF, 2003. At: <http://www.dsf.org.au/> (accessed 24 September 2003).
62. ACOSS (Australian Council of Social Service) 2003. *More Affordable Housing – ACOSS Submission to the Productivity Commission*. ACOSS Information Paper 352. ACOSS: Redfern NSW. At [http://coss.net.au/news/upload/info352\\_housing\\_sub.doc](http://coss.net.au/news/upload/info352_housing_sub.doc) (accessed 5 November 2003).
63. AIHW (Australian Institute of Health and Welfare) 2004. *Australia's health 2004: the ninth biennial report of the Australian Institute of Health and Welfare*. Canberra: Australian Institute of Health and Welfare.
64. Laws PJ and Sullivan EA (2004). *Australia's mothers and babies 2001*. (AIHW cat. no. PER 25) Sydney: AIHW National Perinatal Statistics Unit.
65. Chan A, Scott J, Nguyen A and Green P 2003. *Pregnancy Outcome in South Australia 2002*. Pregnancy Outcomes Unit, Epidemiology Branch, Department of Human Services (SA).
66. NHMRC (Commonwealth of Australia) 1997. *The health effects of passive smoking - A Scientific Information Paper - November 1997*. At <http://www.nhmrc.gov.au/publications/reports/smoking/index.htm> (accessed 19 July 2005)
67. Hull B, Lawrence G, MacIntyre R and McIntyre P 2002. *Immunisation Coverage Australia 2001*. National Centre for Immunisation Research and Surveillance of Vaccine Preventable Diseases (NCIRS), University of Sydney: Commonwealth of Australia. At <http://immunise.health.gov.au/report.pdf> (accessed 19 July 2005)
68. Armfield JM, Roberts-Thomson KF, Slade GD and Spencer AJ 2004. Dental health difference between boys and girls. *The child dental health survey, Australia 2000*. Canberra: AIHW.
69. AIHW (Australian Institute of Health and Welfare) 2004. *Heart, stroke and vascular diseases: Australian facts 2004*. Canberra: Australian Institute of Health and Welfare.
70. AIHW (Australian Institute of Health and Welfare) 2005. *Arthritis and musculoskeletal conditions in Australia, 2005*. AIHW Cat. No. PHE 67.
71. AIHW (Australian Institute of Health and Welfare) 2005. *Health system expenditure on disease and injury in Australia, 2000–01*. Second edition. AIHW cat. no. HWE 28 Canberra: AIHW (Health and Welfare Expenditure Series no. 21).
72. WHO (World Health Organization) 2000. *Obesity: preventing and managing the global epidemic*. Report of a WHO consultation. WHO Technical Report Series 894. Geneva: WHO.
73. Borland R and Siahpush M. Submission to the NHMRC - Preventive Health Care and Strengthening Australia's Social and Economic Fabric. At [http://www7.health.gov.au/nhmrc/publications/\\_files/submissions/preventive/26.pdf](http://www7.health.gov.au/nhmrc/publications/_files/submissions/preventive/26.pdf) (accessed 1 September 2005).
74. Collins DJ and Lapsley HM. *Counting the cost: Estimates of the costs of drug abuse in Australia in 1998-99*. Monograph Series No. 49. Canberra: Commonwealth of Australia 2002.
75. South Australian Cancer Registry 2005. *Cancer in South Australia 2002 - with projections to 2005*. Adelaide: DH (SA).
76. Coates M and Armstrong B 1997. *Cancer in New South Wales. Incidence and mortality 1994*. Sydney, NSW Cancer Council.
77. Kelsey JL 1993. Breast cancer epidemiology: Summary and future directions. *Epidemiologic Review* 15:256.
78. CCSA (Cancer Council of SA) 1999. *Cancer facts*. At <http://www.cancersa.org.au/i-cms?page=1.2.234> (accessed 19 July 2005)

79. ABS (Australian Bureau of Statistics) 2003. *Deaths, Australia 2002*. ABS Catalogue no. 3302.0. Canberra: ABS.
80. Draper G, Turrell G and Oldenburg B 2004. *Health Inequalities in Australia: Mortality*. Health Inequalities Monitoring Series No. 1. AIHW Cat. No. PHE 55. Canberra: Queensland University of Technology and the Australian Institute of Health and Welfare.
81. Dunn C, Sadkowsky K and Jelfs P 2002. *Trends in Deaths: analysis of Australian Data 1987-1998 with updates to 2000*. Australian Institute of Health and Welfare (AIHW) Mortality Surveillance Series no. 3. Cat. No. PHE 40. Canberra: AIHW.
82. Manuel DG, Goel V, Williams JI and Corey P 2000. Health-adjusted Life Expectancy at the Local Level in Ontario. *Chronic Diseases in Canada* 21 (2):73-80.
83. AIHW (Australian Institute of Health and Welfare) 2000. *BreastScreen Australia Achievement Report 1997-1998*. AIHW Cat. No. CAN 8. Canberra: AIHW (Cancer Series number 13).
84. Luke C, Nguyen A, Priest K 2004. Female breast cancers are getting smaller, but socio-demographic differences remain. *Australian and New Zealand Journal of Public Health* 28(4): 312-16.
85. AIHW (Australian Institute of Health and Welfare) 2003. *Cervical Screening in Australia 2002-03*. AIHW Cat. No. CAN 26. Canberra: AIHW (Cancer Series number 31).
86. Turrell G and Mathers C 2000. Socioeconomic status and health in Australia. *Med J Aust* 172: 434-438.
87. Chan A, Scott J, Nguyen A and Sage L 2005. *Pregnancy Outcome in South Australia 2003*. Pregnancy Outcome Unit, Epidemiology Branch, DH: Adelaide.
88. O'Shea R 2005. A view of AGES: The future of gynaecological surgery. *O & G Vol 7 No 1*, Autumn edition. At [http://www.ranzcog.edu.au/publications/o-g\\_pdfs/O&G-Autumn-2005/OG-AGES-Viewpoint.pdf](http://www.ranzcog.edu.au/publications/o-g_pdfs/O&G-Autumn-2005/OG-AGES-Viewpoint.pdf) (accessed 24 November 2005)

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