

Table 1A - Effect of Cover levels derived from NSW time interval on diabetes related hospitalisations and length of stay

	Diabetes related hospitalisation			LOS diabetes related hospitalisation			Unplanned diabetes related hospitalisation			LOS unplanned diabetes related hospitalisation		
	IRR	95%CI	p-value	IRR	95%CI	p-value	IRR	95%CI	p-value	IRR	95%CI	p-value
Unweighted (1)												
Low Cover	3.2	(2.6; 4.1)	<0.001	3.3	(2.3; 4.9)	<0.001	1.5	(1.0; 2.1)	0.05	2.9	(1.5; 5.6)	0.01
Medium Cover	2.9	(2.5; 3.2)	<0.001	3.3	(2.7; 4.2)	<0.001	1.9	(1.5; 2.4)	<0.001	2.2	(1.5; 3.2)	<0.001
High Cover	2.8	(2.6; 2.9)	<0.001	2.0	(1.8; 2.1)	<0.001	1.6	(1.5; 1.8)	<0.001	1.5	(1.3; 1.7)	<0.001
Perfect Cover	Ref			Ref			Ref			Ref		
Weighted (2)												
Low Cover	3.2	(1.9; 5.5)	<0.001	1.0	(0.4; 3.0)	0.9	1.5	(0.8; 2.9)	0.2	1.0	(0.3; 3.9)	1
Medium Cover	3.2	(2.7; 3.8)	<0.001	1.9	(1.2; 3.1)	0.009	2.1	(1.5; 2.9)	<0.001	1.1	(0.6; 2.0)	0.8
High Cover	2.7	(2.5; 2.8)	<0.001	1.6	(1.3; 2.1)	<0.001	1.7	(1.5; 1.8)	<0.001	1.2	(0.9; 1.7)	0.2
Perfect Cover	Ref			Ref			Ref			Ref		
Doubly robust estimation (3)												
Low Cover	3.1	(1.9; 5.0)	<0.001	0.7	(0.4; 1.3)	0.2	1.5	(0.8; 2.7)	0.1	0.6	(0.3; 1.4)	0.2
Medium Cover	3.0	(2.5; 3.5)	<0.001	1.8	(1.4; 2.4)	<0.001	1.7	(1.3; 2.3)	<0.001	1.0	(0.7; 1.6)	0.8
High Cover	2.7	(2.5; 2.9)	<0.001	1.9	(1.6; 2.2)	<0.001	1.6	(1.5; 1.8)	<0.001	1.5	(1.3; 1.9)	<0.001
Perfect Cover	Ref			Ref			Ref			Ref		

Notes:

- (1) The negative binomial model adjusted for current health service use (frequency of GP contacts, regularity of GP contact, UPC of GP contacts, and number of specialist contacts); and pre-treatment covariates (age, gender, indigenous, education, level of limitation, self-report comorbidity, comorbidity, complication, duration of diabetes, history of diabetes related hospitalisations, cover in, frequency of GP contacts, regularity, UPC, number of specialist visits)
- (2) The negative binomial model adjusted for current health service use and weighted with IPTW of observed covariates
- (3) The negative binomial model adjusted for current health service use; pre-treatment covariates and weighted with IPTW of observed covariates

Table 1B - Effect of Cover levels derived from the survey time interval on diabetes related hospitalisations and length of stay

	Diabetes related hospitalisation			LOS diabetes related hospitalisation			Unplanned diabetes related hospitalisation			LOS unplanned diabetes related hospitalisation		
	IRR	95%CI	p-value	IRR	95%CI	p-value	IRR	95%CI	p-value	IRR	95%CI	p-value
Unweighted (1)												
Low Cover	4.8	(4.2; 5.6)	<0.001	4.6	(3.7; 5.7)	<0.001	3.7	(2.9; 4.7)	<0.001	4.0	(2.7; 5.8)	<0.001
Medium Cover	5.2	(4.7; 5.7)	<0.001	5.1	(4.4; 5.8)	<0.001	3.8	(3.2; 4.4)	<0.001	4.0	(3.2; 5.0)	<0.001
High Cover	4.0	(3.7; 4.4)	<0.001	2.8	(2.5; 3.1)	<0.001	2.6	(2.3; 3.0)	<0.001	2.2	(1.9; 2.7)	<0.001
Perfect Cover	Ref			Ref			Ref			Ref		
Weighted (2)												
Low Cover	3.4	(2.4; 4.6)	<0.001	7.1	(3.7; 13.5)	<0.001	4.3	(2.4; 7.7)	<0.001	8.4	(4.3; 16.7)	<0.001
Medium Cover	4.0	(3.3; 4.8)	<0.001	6.2	(4.3; 9.1)	<0.001	4.3	(3.4; 5.4)	<0.001	5.4	(3.8; 7.8)	<0.001
High Cover	2.9	(2.4; 3.5)	<0.001	2.6	(1.8; 3.6)	<0.001	2.5	(2.0; 3.2)	<0.001	2.3	(1.6; 3.3)	<0.001
Perfect Cover	Ref			Ref			Ref			Ref		
Doubly robust estimation (3)												
Low Cover	3.3	(2.4; 4.4)	<0.001	4.2	(2.6; 7.0)	<0.001	3.5	(2.2; 5.4)	<0.05	2.8	(1.7; 4.8)	<0.001
Medium Cover	4.2	(3.6; 4.9)	<0.001	6.3	(4.8; 8.2)	<0.001	4.1	(3.2; 5.1)	<0.001	5.3	(3.9; 7.2)	<0.001
High Cover	3.2	(2.8; 3.7)	<0.001	3.1	(2.5; 3.8)	<0.001	2.6	(2.1; 3.2)	<0.001	2.6	(2.0; 3.4)	<0.001
Perfect Cover	Ref			Ref			Ref			Ref		

Notes:

- (4) The negative binomial model adjusted for current health service use (frequency of GP contacts, regularity of GP contact, UPC of GP contacts, and number of specialist contacts); and pre-treatment covariates (age, gender, indigenous, education, level of limitation, self-report comorbidity, comorbidity, complication, duration of diabetes, history of diabetes related hospitalisation, cover in, frequency of GP contacts, regularity, UPC, number of specialist visits)
- (5) The negative binomial model adjusted for current health service use and weighted with IPTW of observed covariates
- (6) The negative binomial model adjusted for current health service use; pre-treatment covariates and weighted with IPTW of observed covariates

Table 1C- Effect of Cover levels derived from the WA interval on diabetes related hospitalisations and length of stay among sub-population

	Diabetes related hospitalisation			LOS diabetes related hospitalisation			Unplanned diabetes related hospitalisation			LOS unplanned diabetes related hospitalisation		
	IRR	95%CI	p-value	IRR	95%CI	p-value	IRR	95%CI	p-value	IRR	95%CI	p-value
Unweighted (1)												
Low Cover	3.1	(2.5; 4.0)	<0.001	3.3	(2.2; 4.9)	<0.001	1.4	(0.9; 2.1)	0.09	2.7**	(1.4; 5.3)	0.003
Medium Cover	3.0	(2.6; 3.4)	<0.001	3.3	(2.6; 4.2)	<0.001	1.9	(1.5; 2.4)	<0.001	1.6*	(1.1; 2.3)	0.02
High Cover	2.8	(2.6; 3.0)	<0.001	2.0	(1.8; 2.2)	<0.001	1.7	(1.6; 1.9)	<0.001	1.6	(1.4; 1.9)	<0.001
Perfect Cover	Ref			Ref			Ref			Ref		
Weighted (2)												
Low Cover	3.3	(2.0; 5.5)	<0.001	1.1	(0.4; 3.1)	0.8	1.8	(0.9; 3.6)	0.09	1.5	(0.3; 6.5)	0.5
Medium Cover	3.4	(2.9; 4.1)	<0.001	1.6*	(1.0; 2.7)	0.04	2.1	(1.5; 3.0)	<0.001	0.9	(0.5; 1.6)	0.6
High Cover	2.7	(2.6; 2.9)	<0.001	1.7	(1.3; 2.1)	<0.001	1.7	(1.5; 1.9)	<0.001	1.2	(0.9; 1.7)	0.2
Perfect Cover	Ref			Ref			Ref			Ref		
Doubly robust estimation (3)												
Low Cover	3.2	(2.0; 5.0)	<0.001	0.9	(0.5; 1.7)	0.7	1.8	(1.0; 3.3)	0.07	0.9	(0.4; 2.0)	0.7
Medium Cover	3.2	(2.7; 3.8)	<0.001	1.7	(1.3; 2.4)	<0.001	1.8	(1.4; 2.5)	<0.001	0.8	(0.5; 1.2)	0.2
High Cover	2.8	(2.6; 2.9)	<0.001	2.1	(1.8; 2.4)	<0.001	1.7	(1.5; 1.9)	<0.001	1.7	(1.4; 2.1)	<0.001
Perfect Cover	Ref			Ref			Ref			Ref		

Notes:

- (7) The negative binomial model adjusted for current health service use (frequency of GP contacts, regularity of GP contact, UPC of GP contacts, and number of specialist contacts); and pre-treatment covariates (age, gender, indigenous, education, level of limitation, self-report comorbidity, comorbidity, complication, duration of diabetes, history of diabetes related hospitalisation, cover in, frequency of GP contacts, regularity, UPC, number of specialist visits)
- (8) The negative binomial model adjusted for current health service use and weighted with IPTW of observed covariates
- (9) The negative binomial model adjusted for current health service use; pre-treatment covariates and weighted with IPTW of observed covariates