Electronic Supplementary Material 3

Table E1. Datasets used in this study.

Database	Description	Coverage
Welsh Demographic Service	An administrative register of all individuals in Wales that use NHS services, containing anonymised demographics and GP practice registration history with anonymised residential data	Wales
General Practice Database	Primary care records with diagnoses, symptoms, investigations, prescribed medication, referrals, coded hospital contacts, and test results coded using Read Codes v2	77% (333/432) of all general practices in Wales
Patient Episode Database for Wales	Clinical information (specialty and diagnoses) of all NHS Wales hospital admissions (inpatient and day cases) – diagnostic information coded using ICD-10 codes.	Wales
Office for National Statistics – Deaths	Death register of all deaths and causes in Wales, coded using International Classification of Diseases (ICD), version 10 codes, derived from information collected at registration of death.	Wales

		1 year be	fore sui (<i>n</i> =	cide cluster (BC)	During su	icide cluster (DC) (n = 86)
		Person	(11 -	+3)	Person	(11 - 00)
Characteristics	Category	count	%	95% CI	count	% 95% CI
Sex	Male	15	34.9	21.5 , 51.0		37.2 27.2 , 48.4
	Female	28	65.1	49.0 , 78.5		62.8 51.6 , 72.8
Age (years)	0-14	<5	<5.0	0.0 , <15.0		<5.0 0.0 , <10.0
	15-34	26	60.5	44.5 , 74.6		65.1 54.0 , 74.9
	35-54	13	30.2	17.7,46.3		26.7 18.0 , 37.6
	≥ 55	<5	<10.0	0.0 , <25.0	<10 <	
WIMD ^a quintile	Q1	<5	<10.0	0.0 , <25.0	8	9.3 4.4 , 18.0
&	Q2	9	20.9	10.6 , 36.5		15.1 8.6 , 24.8
urban/rural indicator	Q3 Q4	<5 12	<10.0 27.9	0.0,<25.0 15.8,43.9	5 15	5.8 2.2 , 13.7 17.4 10.4 , 27.5
	Q5 (most deprived)	14	32.6	19.5, 48.7		45.3 34.7 , 56.4
	Urban	32	74.4	58.5, 86.0		59.3 48.2, 69.6
	Rural	<15	<25.0	0.0 , <40.0		33.7 24.1, 44.8
	Unknown LSOA [♭]	<5	<5.0	0.0 , <15.0	6	7.0 2.9, 15.1
Marital status	Single	21	48.8	33.6 , 64.3	35 4	40.7 30.4 , 51.8
	Separated/Divorced/Widowed	<10	<15.0	0.0 , <30.0		18.6 11.3 , 28.8
	Partnered/Married	14	32.6	19.5 , 48.7	26	30.2 21.0 , 41.2
	Unknown	<5	<5.0	0.0 , <20.0	9	10.5 5.2 , 19.4
Household status	Lives alone	12	27.9	15.8 , 43.9	12	14.0 7.7 , 23.5
	With lone parent	<5	<5.0	0.0 , <15.0	7	8.1 3.6 , 16.6
	With parents	11	25.6	14.0 , 41.5		27.9 19.0 , 38.8
	With partner/spouse With friends/relatives	12	27.9 <5.0	15.8 , 43.9		27.9 19.0 , 38.8 10.5 5.2 , 19.4
	Others ^c & unknown	<5 5	<5.0 11.6	0.0,<20.0 4.4,25.9		10.5 5.2 , 19.4 11.6 6.0 , 20.8
Deserve formals it						
Reason for visit	Self-harm with suicidal intent Non-suicidal self-harm	15 13	34.9 30.2	21.5,51.0 17.7,46.3		32.6 23.1 , 43.6 34.9 25.1 , 46.0
	Self-harm with suicidal intent	15	30.2 34.9	21.5, 51.0		31.4 22.1 , 42.4
	Others ^c	0	0.0	0.0, 0.0		<5.0 0.0 , <10.0
	Unknown	Ő	0.0	0.0,0.0		<5.0 0.0 , <10.0
Suicidal intent &	Suicidal intent	17	39.5	25.4 , 55.2	32	37.2 27.2 , 48.4
future suicidal	Future suicidal ideation risk	11	25.6	14.0, 41.5		17.4 10.4 , 27.5
ideation risk ^e				,		,
SAD score	Consider discharge (0-5)	25	58.1	42.2 , 72.6	64	74.4 63.7 , 82.9
	Refer to psychiatric consultation (6-8)	12	27.9	15.8 , 43.9		16.3 9.5 , 26.1
	Likely require hospital admission (> 8)	<10	<15.0	0.0 , <30.0	8	9.3 4.4 , 18.0
	Unknown	<5	<5.0	0.0,<15.0	0	0.0 0.0 , 0.0

Table E2. Sociodemographics and responses to the emergency department (ED) mental health assessment for the ED dataset ascertained during the suicide cluster (DC) or one year before suicide cluster (BC) period.

General footnote: Data are masked to avoid disclosure of small counts (<5) or secondary disclosure of counts in other categories containing small counts ^a Welsh Index of Multiple Deprivation

^b Lower Super Output Area

 Others include live in care home/safe house/foster care/hostel/supported housing/women's refuge, and homeless
^d Others include heroin overdose without suicidal intent, acute delirium, depression and anxiety (without suicidal intent), and violence/aggression/erratic behaviour/intoxication

^e Column percentages may not add up to 100% for non-mutually exclusive groups

	Tests of assoc	iation (<i>p</i> -value)	Bayes factor			
Characteristics	Fisher's exact test	Likelihood ratio test	Range ^a	Evidence category ^b		
Sex	0.848	0.796	0.152 - 0.400	_c		
Age	0.918	0.963	0.011 - 0.062	_c		
WIMD ^d quintile	0.427	0.397	0.044 - 0.290	_c		
Urban/rural indicator	0.249	0.183	0.178 - 0.461	_c		
Marital status	0.619	0.549	0.053 - 0.206	_c		
Household status	0.380	0.307	0.041 - 0.470	_c		
Reason for visit	0.928	0.764	0.014 - 0.049	_c		
Method of self-harm	0.623	0.294	0.016 - 0.173	_c		
Suicidal intent	0.849	0.798	0.155 - 0.406	_c		
Future suicidal ideation risk	0.352	0.284	0.338 - 0.593	_c		
SAD score	0.128	0.150	0.071 - 0.623	_c		

Table E3. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing sample characteristics for the ED dataset in Table E2.

^a Ranges are given based of estimations corresponding to the Poisson, joint multinomial, independent multinomial and hypergeometric sampling schemes

^b Evidence in favor of the alternative hypothesis (dependence of variables) unless otherwise noted

^c Bayes factor <1, evidence in favor of the null hypothesis (independence of variables)

^d Welsh Index of Multiple Deprivation

			1 year bef		cide cluster (BC) 43)	During suicide cluster (D) (n = 86)		
			Person	· · · · · ·		Person	,	
Characteristics		Category	count	%	95% CI	count %	95% CI	
Self-harm during		Primary care	22	51.2	35.7,66.4	46 53.5	42.5 , 64.2	
ascertainment period		Secondary care	14	32.6	19.5,48.7	6 7.0	2.9,15.1	
		ED mental health assessment only	15	34.9	21.5,51.0	35 40.7	30.4 , 51.8	
Self-harm method during		Overdose/Poisoning	38	88.4	74.1,95.6	68 79.1	68.7 , 86.8	
ascertainment period ^a		Hanging/Strangling	<5	<5.0	0.0,<15.0	<5 <5.0	0.0,<15.0	
		Cutting	8	18.6	8.9,33.9	14 16.3	9.5 , 26.1	
		Others/Unknown	12	27.9	15.8,43.9	26 30.2	21.0 , 41.2	
Charlson comorbidityindex during history		0	30	69.8	53.7 , 82.3	63 73.3	62.4 , 82.0	
period ^d		≥ 1	13	30.2	17.7,46.3	23 26.7	18.0 , 37.6	
History of	Conditions ^b	Self-harm	29	67.4	51.3 , 80.5	50 58.1	47.0 , 68.5	
		All mental health	31	72.1	56.1,84.2	57 66.3	55.2 , 75.9	
		Common mental disorders	28	65.1	49.0,78.5	50 58.1	47.0 , 68.5	
		Severe mental illness	<5	<5.0	0.0,<20.0	9 10.5	5.2,19.4	
		Alcohol misuse	9	20.9	10.6,36.5	25 29.1	20.0 , 40.0	
		Drug misuse	6	14.0	5.8 , 28.6	17 19.8	12.3 , 30.0	
	Prescriptions	Psychotropic medications	28	65.1	49.0 , 78.5	52 60.5	49.3 , 70.7	
	-	Opiate medications		48.8	33.6 , 64.3	34 39.5	29.3 , 50.7	

Table E4. Self-harm and clinical characteristics of ED dataset ascertained during the suicide cluster (DC) or one year before suicide cluster (BC) period.

General note:

Column percentages may not add up to 100% since some subgroups are non-mutually exclusive
Data are masked to avoid disclosure of small counts (<5) or secondary disclosure of counts in other categories containing small counts

^a Data sourced from primary, secondary care, and ED mental health assessment data

^b Data sourced from primary and secondary care data

° Data sourced from primary care data only

		Tests of associa	tion (<i>p</i> -value)	Bayes factor		
Characteristics		Fisher's exact test Li	kelihood ratio test	Range ^a Evidence category		
Self-harm during ascertainment period	Primary care	0.853	0.803	0.156 - 0.413	_c	
	Secondary care	e <0.001	<0.001	130.506 - 229.388	Extreme	
	ED mental health assessment only	0.569	0.521	0.181 - 0.476	_c	
Self-harm method during ascertainment	Overdose/Poisoning	0.230	0.180	0.388 - 0.682	_c	
period	Hanging/Strangling	>0.999	0.713	0.085 - 0.516	_c	
	Cutting	0.805	0.742	0.186 - 0.327	_c	
	Others/Unknown	0.840	0.784	0.163 - 0.379	_c	
	CCI ^d during history period	0.682	0.678	0.181 - 0.399	_c	
History of	Self-harm	0.342	0.304	0.248 - 0.650	_c	
	All mental health	0.552	0.501	0.184 - 0.461	_c	
	Common mental disorders	0.567	0.443	0.198 - 0.521	_c	
	Severe mehtal illness	0.334	0.242	0.218 - 0.583	_c	
	Alcohol misuse	0.399	0.316	0.269 - 0.561	_c	
	Drug misuse	e 0.474	0.408	0.235 - 0.413	_c	
	Psychotropic medications	0.702	0.607	0.168 - 0.442	_c	
	Opiate medications	0.349	0.315	0.252 - 0.661	_c	

Table E5. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing self-harm characteristics for the ED dataset in Table E4.

^a Ranges are given based of estimations corresponding to the Poisson, joint multinomial, independent multinomial and hypergeometric sample schemes
^b Evidence in favor of the alternative hypothesis (dependence of variables) unless otherwise noted
^c Bayes factor <1, evidence in favor of the null hypothesis (independence of variables)
^d Charlson comorbidity index

Table E6. Sociodemographics of the enhanced dataset (from ED and SAIL) ascertained during the suicide cluster (DC) or one year before suicide cluster (BC) period.

		1 year	before suici (<i>n</i> = 20	de cluster (BC) 09)	During suicide cluster (DC) (<i>n</i> = 280)			
		Person	•		Person			
Characteristics	Category	count	%	95% CI	count	%	95% CI	
Sex	Male	83	39.7	33.1 , 46.7	112	40.0	34.3 , 46.0	
	Female	126	60.3	53.3 , 66.9	168	60.0	54.0 , 65.7	
Age (years)	0-14	13	6.2	3.5 , 10.6	25	8.9	6.0,13.1	
	15-34	131	62.7	55.7 , 69.2	164	58.6	52.5,64.4	
	35-54	53	25.4	19.7 , 31.9	67	23.9	19.1,29.4	
	≥ 55	12	5.7	3.1 , 10.1	24	8.6	5.7 , 12.6	
WIMD ^a quintile	Q1	<20	<10.0	0.0 , <15.0	20	7.1	4.5,11.0	
&	Q2	38	18.2	13.3 , 24.2	55	19.6	15.3,24.9	
urban/rural indicator	Q3	21	10.0	6.5 , 15.1	25	8.9	6.0,13.1	
	Q4	51	24.4	18.9 , 30.9	67	23.9	19.1 , 29.4	
	Q5 (most deprived)	81	38.8	32.2 , 45.7	107	38.2	32.4 , 44.2	
	Urban	152	72.7	66.1 , 78.5	183	65.4	59.4 , 70.9	
	Rural	<60	<30.0	0.0 , <35.0	91	32.5	27.1,38.4	
	Unknown LSOA ^b	<5	<5.0	0.0 , <5.0	6	2.1	0.9 , 4.8	

General footnote: Data are masked to avoid disclosure of small counts (<5) or secondary disclosure of counts in other categories containing small counts

^a Welsh Index of Multiple Deprivation ^b Lower Super Output Area

	Tests of associ	ation (<i>p</i> -value)	Bayes factor			
Characteristics	Fisher's exact test	Likelihood ratio test	Range ^a	Evidence category ^b		
Sex	>0.999	0.949	0.069 - 0.218	_c		
Age (years)	0.425	0.404	0.008 - 0.040	_c		
WIMD ^d quintile	0.765	0.682	0.000 - 0.004	_c		
Urban/rural indicator	0.112	0.086	0.049 - 0.444	_c		

Table E7. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing sociodemographic characteristics for the enhanced dataset in Table E6.

^a Ranges are given based of estimations corresponding to the Poisson, joint multinomial, independent multinomial and hypergeometric sample schemes

^b Evidence in favor of the alternative hypothesis (dependence of variables) unless otherwise noted

^c Bayes factor <1, evidence in favor of the null hypothesis (independence of variables)

^d Welsh index of multiple deprivation

Table E8. Self-harm and clinical outcomes of the enhanced dataset (from ED and SAIL) ascertained during the suicide cluster (DC) or one year before suicide cluster (BC) period.

			1 year be	fore suid (<i>n</i> = 2	cide cluster (BC) 209)	•	cide cluster (DC) n = 280)
Ob and a stania ti a a		O-t	Person	0/		Person	
Characteristics		Category	count	%	95% CI		<u>6 95% CI</u>
Self-harm during		Primary care	175	83.7	77.9 , 88.3	225 80	,
ascertainment period	E	Secondary care	71 15	34.0 7.2	27.7 , 40.9	56 20 35 12	•
	E	D mental health assessment only ^a			4.2 , 11.8		
Self-harm method during		Overdose/Poisoning	159	76.1	69.6 , 81.6	186 66	
ascertainment period ^ь		Hanging/Strangling	<5	<2.0	0.0 , <5.0	12 4	,
		Cutting	19	9.1	5.7 , 14.0	25 8	
		Others/Unknown	76	36.4	29.9 , 43.3	125 44	6 38.8 , 50.7
Charlson comorbidity index		0	150	71.8	65.1 , 77.7	194 69	3 63.5 , 74.6
during history period ^d		≥ 1	59	28.2	22.3 , 34.9	86 30	7 25.4 , 36.5
History of	Conditions ^c	Self-harm ^b	100	47.8	40.9 , 54.8	131 46	8 40.8 , 52.8
,		All mental health	155	74.2	67.6 , 79.8	177 63	
		Common mental disorders	123	58.9	51.8 , 65.5	154 55	
		Severe mental illness	18	8.6	5.3 , 13.5	35 12	
		Alcohol misuse	56	26.8	21.0 , 33.4	80 28	6 23.4 , 34.3
		Drug misuse	40	19.1	14.2 , 25.3	56 20	0 15.6 , 25.3
	Prescriptionsd	Psychotropic medications	126	60.3	53.3 , 66.9	159 56	8 50.8 , 62.6
		Opiate medications	86	41.1	34.5 , 48.2	117 41	8 36.0 , 47.8
Outcomes during	Self-harm	Self-harm	123	58.9	51.8 , 65.5	157 56	1 50.0 , 61.9
10-year follow-up	Mortality	All-cause	14	6.7	3.9 , 11.2	34 12	
	,	Natural cause	8	3.8	1.8 , 7.7	22 7	
		Unnatural cause	6	2.9	1.2 , 6.4	<15 <5	
		Suicide	5	2.4	0.9 , 5.8	<5 <5	
		Mean age of death	48.2	-	37.6 , 58.8	51.2	- 44.0 , 58.4

General note:

Column percentages may not add up to 100% since some subgroups are non-mutually exclusive
Data are masked to avoid disclosure of small counts (<5) or secondary disclosure of counts in other categories containing small counts

^a Extracted from the ED dataset

^b Data sourced from primary, secondary care, and ED mental health assessment ^c Data for all conditions (except self-harm) sourced from primary and secondary care data ^d Data sourced from primary care data only

Table E9. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing self-harm and clinical outcomes of the enhanced dataset in Table E8.

		Tests of assoc	iation (<i>p</i> -value)	Baye	Bayes factor		
Characteristics		Fisher's exact test	Likelihood ratio test	Range ^a	Evidence category ^b		
Self-harm during ascertainment	Primary care	0.347	0.337	0.138 - 0.269	_c		
period	Secondary care	0.001	0.001	38.526 - 79.859	Very strong		
	ED mental health assessment only	0.070	0.051	0.436 - 1.147	_c		
Self-harm method during	Overdose/Poisoning	0.021	0.020	13.546 - 28.456	Strong		
ascertainment period	Hanging/Strangling	0.109	0.059	0.195 - 1.515	_c		
	Cutting	>0.999	0.951	0.066 - 0.193	_c		
	Others/Unknown	0.077	0.065	0.362 - 1.185	_c		
	CCI ^b during history period	0.617	0.551	0.102 - 0.242	_c		
History of	Self-harm	0.855	0.816	0.067 - 0.228	_c		
	All mental health	0.011	0.010	23.851 - 60.579	Strong/Very strong		
	Common mental disorders	0.408	0.395	0.093 - 0.316	_c		
	Severe mental illness	0.188	0.167	0.178 - 0.444	_c		
	Alcohol misuse	0.684	0.664	0.098 - 0.218	_c		
	Drug misuse	0.908	0.812	0.093 - 0.181	_c		
	Psychotropic medications	0.459	0.437	0.089 - 0.296	_c		
	Opiate medications	0.926	0.887	0.067 - 0.221	_c		
Outcomes during	Self-harm	0.580	0.538	0.078 - 0.265	_c		
10-year follow-up	All-cause mortality	0.047	0.041	3.879 - 11.456	Moderate/Strong		
	Natural cause mortality	0.086	0.060	0.292 - 1.207	_c		
	Unnatural cause mortality	0.799	0.665	0.044 - 0.325	_c		
	Suicide mortality	0.506	0.436	0.043 - 0.525	_c		
	Mean age of death		0.663 ^d	0.188-0.336 ^e	_c		

^a Ranges are given based of estimations corresponding to the Poisson, joint multinomial, independent multinomial and hypergeometric sample schemes ^b Charlson comorbidity index

^c Bayes factor <1, evidence in favor of the null hypothesis (independence of variables or no differences in group means) ^d Based of p-values from independent sample *t* test

^e Based on Bayes factors for independent sample *t* test using prior Cauchy distribution with scale parameter of $\sqrt{2/2}$, 1, and $\sqrt{2}$

ED dataset Enhanced dataset 1 year before During 1 year before During suicide cluster (BC) suicide cluster (DC) suicide cluster (BC) suicide cluster (DC) (n = 43)(*n* = 86) (n = 209)(n = 280)Perso Person Person Person n Sex count 95% CI % 95% CI % 95% CI % 95% CI Age group % count count count ≤ 34 years 27 62.8 58 67.4 56.4 , 76.9 144 68.9 62.1 , 75.0 189 67.5 46.7 , 76.6 61.6 , 72.9 11 40.7 23.0 , 61.0 21 36.2 24.3 , 49.9 59 41.0 32.9 , 49.5 71 37.6 30.7 , 44.9 Male 39.0 , 77.0 Female 59.3 37 63.8 50.1 , 75.7 85 59.0 50.5 , 67.1 118 62.4 55.1 , 69.3 16 23.1 , 43.6 > 34 years 16 37.2 23.4 , 53.3 28 32.6 65 31.1 25.0 , 37.9 91 32.5 27.1 , 38.4 <5 <30.0 0.0 . <55.0 11 39.3 22.1 . 59.3 25.6 . 49.8 24 36.9 41 45.1 34.7 . 55.8 Male Female <15 <80.0 0.0 , <95.0 17 60.7 40.7 , 77.9 41 63.1 50.2 , 74.4 50 54.9 44.2 , 65.3 Homogeneity of ORs^a $\chi^2(1) = 1.43, p = 0.232$ $\chi^{2}(1) = 1.04, p = 0.308$ Ratio of ORs (ROR)^b ROR = 0.5 (0.1 - 2.2), *p* = 0.329 ROR = 0.6 (0.9 - 1.7), *p* = 0.236

Table E10. Number of individuals in groups stratified by sex and age for the ED and enhanced dataset.

^a Based on the Breslow-Day test adjusted by Tarone (1985); ORs: odds ratios

^b Estimates (95% CIs and p-values) of the sex-by-age group interaction from Firth logistic regression of the likelihood of being in BC or DC group with sex, age-group and the interaction as predictors

Table E11. Summary odd ratios (ORs) from conventional and Firth logistic regression models of all-cause mortality outcome during the 10-year follow-up for the enhanced dataset.

			Model 1 ^b						Model 2 ^c				
	Reference		Firth logistic regression		Logistic regression			Firth logistic regression			Logistic regression		
Variable	group	Level O	R 95% CI	<i>p</i> -value	OR	95% CI	<i>p</i> -value	OR	95% CI	<i>p</i> -value	OR	95% CI	<i>p</i> -value
Group ^a -Sex	BC-Male	BC-Female 1.1	7 0.39 , 3.58	0.777	1.22	0.38 , 3.91	0.736	1.41	0.45 , 4.47	0.555	1.50	0.44 , 5.08	0.513
		DC-Male 3.9		0.010	4.32	1.47,12.65	0.008	3.85	,	0.012	4.48	1.46,13.73	0.009
		DC-Female 1.1	3 0.39 , 3.32	0.823	1.19	0.39 , 3.65	0.766	1.30	0.43 , 3.99	0.641	1.40	0.43,4.55	0.581
Age	≤ 34 years	> 34 years 4.4	1 2.32,8.40	<0.001	4.65	2.41,9.00	<0.001	4.07	1.96,8.48	<0.001	4.54	2.11,9.78	<0.001
WIMD ^d quintile	Q1	Q2 0.6	7 0.16 , 2.80	0.586	0.71	0.16 , 3.22	0.656	0.65	0.16 , 2.72	0.559	0.68	0.15 , 3.19	0.627
(Q5: most deprived)		Q3 2.3	4 0.56 , 9.70	0.242	2.59	0.57 , 11.75	0.217	1.99	0.47,8.32	0.347	2.27	0.48 , 10.65	0.299
		Q4 1.4	3 0.38 , 5.34	0.596	1.59	0.39 , 6.46	0.516	1.14	0.30 , 4.26	0.846	1.28	0.31 , 5.32	0.737
		Q5 1.0	1 0.29 , 3.55	0.986	1.12	0.30 , 4.28	0.864	0.83	0.23 , 2.91	0.765	0.91	0.23 , 3.56	0.893
Urban/Rural indicator	Rural	Urban 1.5	5 0.74 , 3.25	0.250	1.61	0.75 , 3.46	0.222	1.53	0.71 , 3.33	0.281	1.62	0.72 , 3.64	0.244
CCI ^e during history period	CCI = 0	≥ 1						1.90	0.98 , 3.70	0.058	2.00	1.00 , 4.00	0.050
History of conditions	absence of	Self-harm						0.86	0.41,1.79	0.679	0.84	0.39,1.82	0.666
	event	All mental health						1.74	0.63, 4.79	0.282	1.80	0.62 , 5.18	0.279
		CMD						0.57	0.22,1.52	0.265	0.57	0.21,1.56	0.273
		SMI						0.80	0.30 , 2.13	0.653	0.76	0.27 , 2.14	0.604
		Alcohol misuse						1.82	0.84 , 3.94	0.127	1.90	0.85 , 4.26	0.118
		Drug misuse						1.35	0.60 , 3.04	0.467	1.36	0.58 , 3.17	0.479
History of medications	absence of	Psychotropic medications						0.80	0.30 , 2.15	0.660	0.78	0.28 , 2.19	0.637
	event	Opiate medications						1.34	0.63 , 2.85	0.439	1.37	0.63 , 3.00	0.426

^a BC: 1 year before suicide cluster; DC: during suicide cluster ^b Model adjusted for demographic variables: group-sex, age, WIMD quintile, and urban/rural indicator

e Variables in Model 1 and further adjusted for WIMD quintile, urban/rural indicator, CCI during history, history of self-harm, all mental health, CMD, SMI, alcohol and drug misuse, psychotropic and opiate medications

^dWelsh Index of Multiple Deprivation

^e Charlson comorbidity index

		Firth logistic regression			L	ogist	ic regress	ion	
					Adjusted				Adjusted
Model	Comparison test	χ ²	dfa	<i>p</i> -value	<i>p</i> -value ^b	χ²	dfa	<i>p</i> -value	<i>p</i> -value ^b
Model 1 ^c	DC ^d -Male vs. BC ^d -Male	6.72	1	0.010	0.010	7.10	1	0.008	0.008
	DC-Male vs. BC-Female	7.69	1	0.006	0.011	8.00	1	0.005	0.009
	DC-Male vs. DC-Female	9.06	1	0.003	0.009	9.33	1	0.002	0.007
	Omnibus test	13.93	3	0.003	-	14.59	3	0.002	-
Model 2 ^e	DC-Male vs. BC-Male	6.28	1	0.012	0.024	6.90	1	0.009	0.026
	DC-Male vs. BC-Female	5.12	1	0.024	0.024	5.55	1	0.018	0.018
	DC-Male vs. DC-Female	6.46	1	0.011	0.033	6.86	1	0.009	0.018
	Omnibus test	10.75	3	0.013	-	11.63	3	0.009	-

Table E12. Summary of multiple pairwise comparisons of all-cause mortality outcome during the 10-year follow-up among four sex-stratified DC and BC groups from the regression models of for the enhanced dataset.

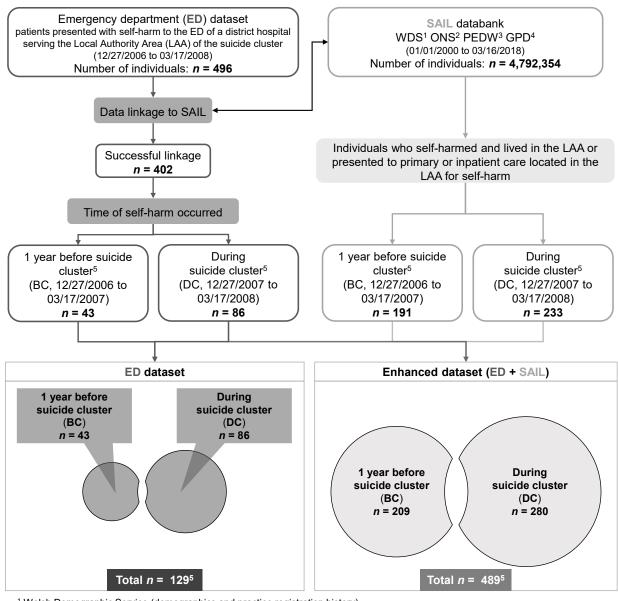
^a Degree of freedom

^b *p*-value adjusted for multiple comparison by Holm method

^c Model adjusted for demographic variables: group-sex, age, WIMD quintile, and urban/rural indicator

^d DC: during suicide cluster; BC: 1 year before suicide cluster

^e Variables in Model 1 and further adjusted for quintile of Welsh Index of Multiple Deprivation, urban/rural indicator, Charlson Comorbidity Index during history, history of self-harm, all mental health, common mental disorders, severe mental illness, alcohol, and drug misuse, psychotropic and opiate medications



¹ Welsh Demographic Service (demographics and practice registration history)

² The Office of National Statistics deaths register

³ Patient Episode Database for Wales (secondary care)

⁴ General Practice Database (Primary care)

⁵ Data for Individuals ascertained in both periods (BC and DC) were not analysed in the ED (n < 5) nor the Enhanced dataset (n = 17)

Figure E1. Study flow diagram.