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Suppl. Table 1. 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

Suppl. Table 1. 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.

		1 year before suicide cluster (B (n = 43)			During suicide cluster (DC) $(n = 86)$
		Person	(Person
Characteristics	Category	count	%	95% CI	count % 95% CI
Sex	Male	15	34.9	21.5,51.0	32 37.2 27.2, 48.4
	Female	28	65.1	49.0 , 78.5	54 62.8 51.6, 72.8
Age (years)	0-14 15-34 35-54 ≥55	<5 26 13 <5	<5.0 60.5 30.2 <10.0	0.0 , <15.0 44.5 , 74.6 17.7 , 46.3 0.0 , <25.0	<5 <5.0 0.0, <10.0 56 65.1 54.0, 74.9 23 26.7 18.0, 37.6 <10 <10.0 0.0, <15.0
WIMD ^a quintile & urban/rural indicator	Q1 Q2 Q3 Q4 Q5 (most deprived) Urban Rural Unknown LSOA ^b	<5 9 <5 12 14 32 <15 <5	<10.0 20.9 <10.0 27.9 32.6 74.4 <25.0 <5.0	0.0 , <25.0 10.6 , 36.5 0.0 , <25.0 15.8 , 43.9 19.5 , 48.7 58.5 , 86.0 0.0 , <40.0 0.0 , <15.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Marital status	Single Separated/Divorced/Widowed Partnered/Married Unknown	21 <10 14 <5	48.8 <15.0 32.6 <5.0	33.6 , 64.3 0.0 , <30.0 19.5 , 48.7 0.0 , <20.0	35 40.7 30.4 , 51.8 16 18.6 11.3 , 28.8 26 30.2 21.0 , 41.2 9 10.5 5.2 , 19.4
Household status	Lives alone With lone parent With parents With partner/spouse With friends/relatives Others ^c & unknown	12 <5 11 12 <5 5	27.9 <5.0 25.6 27.9 <5.0 11.6	15.8 , 43.9 0.0 , <15.0 14.0 , 41.5 15.8 , 43.9 0.0 , <20.0 4.4 , 25.9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Reason for visit	Self-harm with suicidal intent Non-suicidal self-harm Self-harm with suicidal intent Others ^c Unknown	13	34.9 30.2 34.9 0.0 0.0	21.5 , 51.0 17.7 , 46.3 21.5 , 51.0 0.0 , 0.0 0.0 , 0.0	28 32.6 23.1 , 43.6 30 34.9 25.1 , 46.0 27 31.4 22.1 , 42.4 <5 <5.0 0.0 , <10.0 <5 <5.0 0.0 , <10.0
Suicidal intent & future suicidal ideation risk ^e	Suicidal intent Future suicidal ideation risk	17 11	39.5 25.6	25.4 , 55.2 14.0 , 41.5	32 37.2 27.2 , 48.4 15 17.4 10.4 , 27.5
SAD score	Consider discharge (0-5) Refer to psychiatric consultation (6-8) Likely require hospital admission (> 8) Unknown	25 12 <10 <5	58.1 27.9 <15.0 <5.0	42.2 , 72.6 15.8 , 43.9 0.0 , <30.0 0.0 , <15.0	64 74.4 63.7 , 82.9 14 16.3 9.5 , 26.1 8 9.3 4.4 , 18.0 0 0.0 0.0 , 0.0

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

^c 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

Suppl. Table 2. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing sample characteristics for the ED dataset in Suppl. Table 1.

	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		

^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

Suppl. Table 3. Self-harm and clinical characteristics of ED dataset ascertained during the suicide cluster (DC) or one year before suicide cluster (BC) period.

			1 year bef	ore sui	cide cluster (BC)	During suicide	e cluster (DC)
				(<i>n</i> =	43)	(<i>n</i> =	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	^c Psychotropic medications	28	65.1	49.0,78.5	52 60.5	49.3,70.7
	-	Opiate medications	21	48.8	33.6 , 64.3	34 39.5	29.3 , 50.7

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
^c Data sourced from primary care data only

Suppl. Table 4. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing self-harm characteristics for the ED dataset in Suppl. Table 3.

		Tests of associa	ation (<i>p</i> -value)	Bayes factor		
Characteristics		Fisher's exact test L	ikelihood ratio test	Range ^a E	vidence category ^b	
Self-harm during ascertainment period	Primary care	e 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	

^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

Suppl. Table 5. 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 suicio (<i>n</i> = 20)	de cluster (BC) 09)	During suicide cluster (DC) $(n = 280)$			
		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

Suppl. Table 6. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing sociodemographic characteristics for the enhanced dataset in Suppl. Table 5.

	Tests of assoc	iation (<i>p</i> -value)	Bayes factor			
Characteristics	Fisher's exact test	Likelihood ratio test	Range ^a	Evidence category ^b		
Sex	>0.999	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		

^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

Suppl. Table 7. 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	efore suic (<i>n</i> = 2	cide cluster (BC) 209)	-	de cluster (DC) = 280)
Characteristics		Category	Person count	%	95% CI	Person count %	95% CI
Self-harm during ascertainment period	E	Primary care Secondary care D mental health assessment only ^a	175 71 15	83.7 34.0 7.2	77.9 , 88.3 27.7 , 40.9 4.2 , 11.8	225 80.4 56 20.0 35 12.5	75.1 , 84.7 15.6 , 25.3 9.0 , 17.1
Self-harm method during ascertainment period ^b Overdose/Poisoning Cutting Others/Unknown				76.1 <2.0 9.1 36.4	69.6 , 81.6 0.0 , <5.0 5.7 , 14.0 29.9 , 43.3	186 66.4 12 4.3 25 8.9 125 44.6	60.5 , 71.9 2.3 , 7.6 6.0 , 13.1 38.8 , 50.7
Charlson comorbidity index during history period ^d		0 ≥ 1	150 59	71.8 28.2	65.1 ,77.7 22.3 ,34.9	194 69.3 86 30.7	63.5 ,74.6 25.4 ,36.5
History of	Conditions ^c	Self-harm ^b All mental health Common mental disorders Severe mental illness Alcohol misuse Drug misuse	100 155 123 18 56 40	47.8 74.2 58.9 8.6 26.8 19.1	40.9 , 54.8 67.6 , 79.8 51.8 , 65.5 5.3 , 13.5 21.0 , 33.4 14.2 , 25.3	131 46.8 177 63.2 154 55.0 35 12.5 80 28.6 56 20.0	40.8 , 52.8 57.2 , 68.8 49.0 , 60.9 9.0 , 17.1 23.4 , 34.3 15.6 , 25.3
	Prescriptions ^d	Psychotropic medications Opiate medications	126 86	60.3 41.1	53.3 , 66.9 34.5 , 48.2	159 56.8 117 41.8	50.8 , 62.6 36.0 , 47.8
Outcomes during 10-year follow-up	Self-harm Mortality	Self-harm All-cause Natural cause Unnatural cause	123 14 8 6	58.9 6.7 3.8 2.9	51.8 , 65.5 3.9 , 11.2 1.8 , 7.7 1.2 , 6.4	157 56.1 34 12.1 22 7.9 <15 <5.0	50.0 , 61.9 8.7 , 16.7 5.1 , 11.8 0.0 , <10.0
		Suicide Mean age of death	5 48.2	2.4	0.9 , 5.8 37.6 , 58.8	<5 <5.0 51.2 -	0.0 , <5.0 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

Suppl. Table 8. Summary of Fisher's exact tests, likelihood ratio tests and Bayes factor for comparing self-harm and clinical outcomes of the enhanced dataset in Suppl. Table 7.

		Tests of assoc	iation (<i>p</i> -value)	Baye	s 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	_(
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 $\sqrt{2}$

Suppl. Table 9. Number of individuals in groups stratified by sex and age for the ED and enhanced dataset.

				ED d	ataset		Enhanced dataset						
	-	1 year before suicide cluster (BC) (n = 43)		suicide c	uring Iluster (DC) = 86)	suicide c	r before cluster (BC) = 209)	During suicide cluster (DC) (<i>n</i> = 280)					
	-	Perso		· · · ·	·			•					
		n			Person		Person		Person				
Age group	Sex	count	%	95% CI	count %	95% CI	count %	95% CI	count %	95% CI			
≤ 34 years		27	62.8	46.7 , 76.6	58 67.4	56.4 , 76.9	144 68.9	62.1 ,75.0	189 67.5	61.6 , 72.9			
	Male	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			
	Female	16	59.3	39.0 , 77.0	37 63.8	50.1 , 75.7	85 59.0	50.5 , 67.1	118 62.4	55.1 , 69.3			
> 34 years		16	37.2	23.4 , 53.3	28 32.6	23.1 , 43.6	65 31.1	25.0 , 37.9	91 32.5	27.1 , 38.4			
-	Male	<5	<30.0	0.0 , <55.0	11 39.3	22.1 , 59.3	24 36.9	25.6 , 49.8	41 45.1	34.7 , 55.8			
	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			
Homogeneit	y of ORs ^a			$\chi^2(1) = 1.04,$	<i>p</i> = 0.308			$\chi^2(1) = 1.43$	3, <i>p</i> = 0.232				
Ratio of OF	Rs (ROR) ^b			ROR = 0.5 (0.1 -	2.2), <i>p</i> = 0.329			ROR = 0.6 (0.9	- 1.7), <i>p</i> = 0.236				

^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

Suppl. Table 10. 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						Mod	el 2º			
	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 DC-Male 3.9 DC-Female 1.1	0 1.39, 10.92	0.777 0.010 0.823	1.22 4.32 1.19	,	0.736 0.008 0.766	1.41 3.85 1.30	,	0.555 0.012 0.641	1.50 4.48 1.40	0.44 , 5.08 1.46 , 13.73 0.43 , 4.55	0.513 0.009 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 (Q5: most deprived)	Q1	Q2 0.6 Q3 2.3 Q4 1.4 Q5 1.0	4 0.56 , 9.70 3 0.38 , 5.34	0.586 0.242 0.596 0.986	2.59 1.59	,	0.656 0.217 0.516 0.864	0.65 1.99 1.14 0.83	0.47 , 8.32	0.559 0.347 0.846 0.765	0.68 2.27 1.28 0.91	0.15 , 3.19 0.48 , 10.65 0.31 , 5.32 0.23 , 3.56	0.627 0.299 0.737 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 event	Self-harm All mental health CMD SMI Alcohol misuse Drug misuse						0.86 1.74 0.57 0.80 1.82 1.35	0.41 , 1.79 0.63 , 4.79 0.22 , 1.52 0.30 , 2.13 0.84 , 3.94 0.60 , 3.04	0.679 0.282 0.265 0.653 0.127 0.467	0.84 1.80 0.57 0.76 1.90 1.36	0.39 , 1.82 0.62 , 5.18 0.21 , 1.56 0.27 , 2.14 0.85 , 4.26 0.58 , 3.17	0.666 0.279 0.273 0.604 0.118 0.479
History of medications	absence of event	Psychotropic medications Opiate medications						0.80	0.30 , 2.15 0.63 , 2.85	0.660	0.78	0.28 , 2.19 0.63 , 3.00	0.637

 ^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
^c 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 ^d Welsh Index of Multiple Deprivation

^e Charlson comorbidity index

Suppl. Table 11. Summary of multiple pairwise comparisons of all-cause mortality outcome during the 10year follow-up among four sex-stratified DC and BC groups from the regression models of for the enhanced dataset.

		Firth	stic regre	ssion	Logistic regression					
					Adjusted				Adjusted	
Model	Comparison test	χ ²	dfa	<i>p</i> -value	<i>p</i> -value ^b	χ^2	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	-	

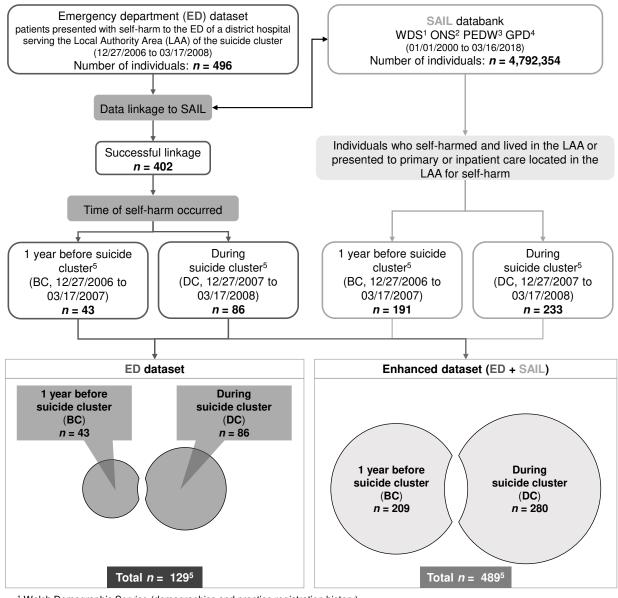
^a Degree of freedom

^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)

Suppl. Fig. 1. Study flow diagram.