Online supplement

Online supplement DS1

Unique data identifier (UDI) codes

Features of bipolar disorder (type I)

Either: 4642 Ever manic/hyper for at least 2 days or 4653 Ever irritable/argumentative for at least 2 days, plus

At least 3 from 6156.01 (more active), 6156.02 (more talkative), 6156.03 (needed less sleep), and 6156.04 (more creative/more ideas), plus

5663 Duration of a week or more, plus

5674 Needed treatment or caused problems at work

Features of bipolar disorder (type II)

Either: 4642 Ever manic/hyper for at least 2 days or 4653 Ever irritable/argumentative for at least 2 days, plus

At least 3 from 6156.01 (more active), 6156.02 (more talkative), 6156.03 (needed less sleep), and 6156.04 (more creative/more ideas), plus

5663 Duration of a week or more

Single (probable) episode of major depression

EITHER:

4598 Ever depressed/down for a whole week, plus

4609 At least 2 weeks duration, plus

4620 Only one episode, plus

2090 Ever seen a GP or 2100 a psychiatrist for nerves, anxiety, depression

OR:

4631 Ever anhedonic (unenthusiasm/uninterest) for a whole week, plus

5375 At least 2 weeks, plus

5386 Only one episode, plus

2090 Ever seen a GP or 2100 a psychiatrist for nerves, anxiety, depression

Probable recurrent major depression (moderate)

EITHER:

4598 Ever depressed/down for a whole week, plus

4609 At least 2 weeks duration, plus

4620 At least two episodes, plus

2090 Ever seen a GP (but not a psychiatrist) for nerves, anxiety, depression

OR:

4631 Ever anhedonic (unenthusiasm/uninterest) for a whole week, plus

5375 At least 2 weeks, plus

5386 At least two episodes, plus

2090 Ever seen a GP (but not a psychiatrist) for nerves, anxiety, depression

Probable recurrent major depression (severe)

EITHER:

4598 Ever depressed/down for a whole week, plus

4609 At least 2 weeks duration, plus

4620 At least two episodes, plus

2100 Ever seen a psychiatrist for nerves, anxiety, depression

OR:

4631 Ever anhedonic (unenthusiasm/uninterest) for a whole week, plus

5375 At least 2 weeks, plus

5386 At least two episodes, plus

2100 Ever seen a psychiatrist for nerves, anxiety, depression

Online supplement DS2

Questions and answers used to assess mood disorder features

Bipolar features questions

- (a) Have you ever had a period of time lasting at least 2 days when you were feeling so good, 'high', excited or 'hyper' that other people thought you were not your normal self or you were so 'hyper that you got into trouble?' (4642) or 'Have you ever had a period of time lasting at least 2 days when you were so irritable that you found yourself shouting at people or starting fights or arguments? (4653)' Select: Yes, No, Don't know, Prefer not to answer
- (b) Please try to remember a period when you were in a 'high' or 'irritable' state and select which of the following apply Select:I was more active than usual (6156.01)
 - I was more talkative than usual (6156.02)
 - I needed less sleep than usual (6156.03)
 - I was more creative or had more ideas than usual (6156.04) All of the above
 - None of the above
- (c) What is the longest time period that these 'high' or 'irritable' periods have lasted? (5663)

Select: At least 2 days, but less than a week Less than a week A week or more Do not know

- Prefer not to answer
- (d) How much of a problem have these 'high' or 'irritable' periods caused you? (5674)Select: No problems
 - Needed treatment or caused problems with work,
 - relationships, finances, the law or other aspects of life
 - Do not know

Prefer not to answer

Depressive features questions

 (a) Looking back over your life, have you ever had a time when you were feeling depressed or down for at least a whole week? (4598)

Select: Yes, No, Don't know, Prefer not to answer

- (b) How many weeks was the longest period when you were feeling depressed or down? (4609) Participants asked to enter the number of weeks on the touchscreen.
- (c) How many periods have you had when you were feeling depressed or down for at least a whole week?' Participants asked to enter the number of periods on the touchscreen.
- (d) Have you ever seen a general practitioner (GP) for nerves, anxiety, tension or depression? (2090) or Have you ever seen a psychiatrist for nerves, anxiety, tension or depression? (2100) Select: Yes, No, Don't know, Prefer not to answer

Anhedonia

(a) Have you ever had a time when you were uninterested in things or unable to enjoy the things you used to for at least a whole week? (4631)

Select: Yes, No, Don't know, Prefer not to answer

- (b) How many weeks was the longest period when you were uninterested in things or unable to enjoy the things you used to?' Participants asked to enter the number of weeks on the touchscreen.
- (c) How many periods have you had when you were uninterested in things or unable to enjoy the things you used to for at least a whole week?" Participants asked to enter the number of periods on the
- touchscreen.(d) Have you ever seen a general practitioner (GP) for nerves, anxiety, tension or depression? (2090) or Have you ever seen

a psychiatrist for nerves, anxiety, tension or depression? (2100)

Select: Yes, No, Don't know, Prefer not to answer

Online supplement DS3

List of psychotropic medications

1 Mood stabilisers

lithium product Priadel (lithium) Camcolit (lithium) sodium valproate Epilim (sodium valproate) Depakote (semisodium valproate) valproic acid carbamazepine product carbamazepine Tegretol (carbamazepine) Teril (carbamazepine) Teril (carbamazepine) Timonil retard (carbamazepine) Epimax (carbamazepine) 2 Antidepressant – selective serotonin reuptake inhibitors paroxetine Seroxat (paroxetine) fluoxetine Prozac (fluoxetine) citalopram Cipramil (citalopram) escitalopram Cipralex (escitalopram) sertraline Lustral (sertraline) fluoxamine 3 Antidepressant - other

mirtazapine Zispin (mirtazapine) duloxetine Cymbalta (duloxetine) Yentreve (duloxetine) venlafaxine Efexor (venlafaxine) amitriptyline Elavil (amitriptyline) Tryptizol (amitriptyline) Lentizol (amitriptyline) amitriptyline+perphenazine Triptafen (amitriptyline+perphenazine) amitriptyline+chlordiazepoxide Limbitrol 10 (amitriptyline+chlordiazepoxide) Limbitrol-5 (amitriptyline+chlordiazepoxide) phenelzine monoamine oxidase inhibitor – phenelzine Nardil (phenelzine) moclobemide Manerix (moclobernide) imipramine Tofranil (imipramine) trimipramine Surmontil (trimipramine) dothiepin dosulepin Prothiaden (dosulepin) Thaden (dosulepin) clomipramine Anafranil (clomipramine) lofepramine Gamanil (lofepramine) Lomont (lofepramine) mianserin Bolvidon (mianserin) Norval (mianserin)

- 4 Antipsychotic traditional chlorpromazine cpz-chlorpromazine Largactil (chlorpromazine) haloperidol Haldol (haloperidol) Serenace (haloperidol) fluphenazine decanoate fluphenazine Modecate (fluphenazine) Moditen tablet (fluphenazine) Moditen enanthate (fluphenazine) flupentixol Flupenthixol (flupentixol) Depixol (flupentixol) Fluanxol (flupentixol) zuclopenthixol Clopixol (zuclopenthixol) loxapine Loxapac (loxapine) droperidol Droleptan (droperidol) trifluoperazine Stelazine (trifluoperazine) thioridazine Mellaril (thioridazine)
- 5 Antipsychotic second generation quetiapine Seroquel (quetiapine) risperidone Risperdal (risperidone) olanzapine Zyprexa (olanzapine) aripiprazole Abilify (aripiprazole) amisulpride Solian (amisulpride) clozapine Clozaril (clozapine)

6 Sedatives and hypnotics diazepam diazepam product Valium tablet (diazepam) Valium syrup (diazepam) Valium supp (diazepam) temazepam Normison (temazepam) Euhypnos (temazepam) zopiclone Zimovane (zopiclone) zaleplon Sonata (zaleplon) zolpidem Stilnoct (zolpidem) nitrazepam Mogadon (nitrazepam) Nitrados (nitrazepam) Remnos (nitrazepam) Somnite (nitrazepam) Noctesed (nitrazepam) Surem (nitrazepam) Unisomnia (nitrazepam) flunitrazepam Rohypnol (flunitrazepam) triazolam Halcion (triazolam)

Table DS1	ogistic regression ar	nalysis of ca	rdiometabolic dise	ease associa	ted with mood dis	sorder						
		OVE	srall			Won	nen			Me	Ę	
	Partially adju	sted ^a	Fully adjust	ted ^b	Partially adju	sted ^a	Fully adjuste	db	Partially adjus	sted ^a	Fully adjuste	db
	OR (95% CI)	ط	OR (95% CI)	ط	OR (95% CI)	Д	OR (95% CI)	Ъ	OR (95% CI)	Р	OR (95% CI)	٩
Cardiovascular												
uisease aily Control	1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)	
Depression	1.29 (1.25–1.33)	< 0.001	1.15 (1.12–1.19)	< 0.001	1.21 (1.17–1.26)	< 0.001	1.08 (1.03-1.12)	< 0.001	1.40 (1.34–1.46)	< 0.001	1.26 (1.20–1.32)	< 0.001
Bipolar	1.50 (1.34–1.68)	< 0.001	1.28 (1.14–1.43)	< 0.001	1.55 (1.32–1.83)	< 0.001	1.36 (1.15–1.62)	<0.001	1.46 (1.25–1.69)	< 0.001	1.19 (1.02–1.40)	0.027
Diabetes												
Control	1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)	
Depression	1.29 (1.22–1.37)	< 0.001	1.07 (1.03–1.13)	0.038	1.25 (1.15–1.36)	< 0.001	1.03 (0.94–1.12) 0 88 /0 41 -1 28	0.554	1.32 (1.23–1.44)	< 0.001	1.10 (1.01–1.20)	0.023
biyuai	(/0.1-01.1) /0.1	200.0	1.UI (U.&I-1.24)	0.700	1.1/ (U.ŏz-1.00)	0.377	(07.1-10.U) 00.U	000.0	1.40 (1.10-17U)	0.UUZ	1.U7 (U.ŏ4–1.41)	17C.U
Hypertension Control	1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)	
Depression	1.27 (1.23–1.31)	< 0.001	1.15 (1.13–1.18)	< 0.001	1.19 (1.14–1.24)	< 0.001	1.07 (1.03–1.12)	0.002	1.39 (1.32–1.45)	< 0.001	1.27 (1.21–1.34)	< 0.001
Bipolar	1.44 (1.29–1.61)	< 0.001	1.26 (1.12–1.42)	< 0.001	1.46 (1.24–1.73)	< 0.001	1.32 (1.11–1.57)	< 0.001	1.42 (1.22–1.66)	< 0.001	1.20 (1.03–1.41)	0.022
Myocardial												
infarction												
Control	1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)	0	1 (Reference)		1 (Reference)	
Depression	1.38 (1.26–1.51)	< 0.001	1.18 (1.08–1.30)	< 0.001	1.29 (1.08–1.55)	0.005	1.05 (0.8/-1.2/)	0.580	1.41 (1.2/-1.56)	< 0.001	1.23 (1.11–1.37)	< 0.001
BIDOIAL	(1.3.7–44.1) 06.1	1.00.0 >	(24.1–40.1) 64.1	0.011	(76.7-09.0) /2.1	0.409	U.93 (U.43-2.UU)	GG8.U	(21.2-06.1) 20.2	<0.001	(91.7–/1.1) 66.1	0.003
Angina												
Control Danrassion	1 (Reterence) 1 /0 (1 30_1 61)	/ 0001	1 (Keterence) 1 23 (1 11–1 33)	/ 0.001	1 (Reterence) 1 /3 /1 27_1 61)	/ 0.001	1 (Keterence) 1 17 (1 03_1 32)	0.018	1 (Reterence) 1 5/1 /10_1 69)	/0.01	1 (Keterence) 1 28 (1 16-1 11)	/0.00/
Bipolar	1.69 (1.30–2.19)	< 0.001	1.21 (0.93–1.58)	0.154	1.17 (1.30–2.90)	0.008	1.33 (0.84–2.11)	0.231	1.62 (1.18–2.22)	0.003	1.17 (0.54–1.61)	0.351
Stroke												
Control	1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)		1 (Reference)	
Depression	1.61 (1.46–1.78)	< 0.001	1.26 (1.13–1.40)	< 0.001	1.70 (1.47–1.97)	< 0.001	1.38 (1.18–1.61)	< 0.001	1.53 (1.33–1.76)	< 0.001	1.15 (1.00–1.34)	0.058
Bipolar	1.80 (1.2/-2.54)	0.001	1.1/ (0.82–1.6/)	0.3/3	2./3 (1.69–4.41)	< 0.001	1.85 (1.14–3.02)	0.013	1.29 (0./8–2.13)	0.31/	0.81 (0.48–1.34)	0.317
a. Partially adjusted h Fully adjusted fo	I for age, gender, deprivation	In and ethnicity.	nass index smoking stati	is alrohol ronsu	motion and psychotronic	, medication						