

Supplemental Information

SUPPLEMENTAL TABLE 4 Definitions

Variable	Definition
Prenatal mood and anxiety disorder	<p>A woman was considered to have prenatal mood and/or anxiety disorder (eg, anxiety and/or depression) if in the 15 mo before giving birth (or hospital discharge in case of a stillbirth) she had</p> <p>1 or more hospitalizations with a diagnosis for depressive disorder, affective psychoses, neurotic depression, or adjustment reaction (ICD-9-CM codes 296.2–296.8, 300.4, 309, 311; ICD-10-CA codes F31, F32, F33, F34.1, F38.0, F38.1, F41.2, F43.1, F43.2, F43.8, F53.0, F93.0) or</p> <p>1 or more physician visits with a diagnosis for depressive disorder, affective psychoses, or adjustment reaction (ICD-9-CM codes 296, 309, or 311) or</p> <p>1 or more hospitalizations with a diagnosis for anxiety disorders (ICD-9-CM code 300; ICD-10-CA codes F32.0, F34.1, F40, F41, F42, F44, F45.0, F451, F452, F48, F68.0, F99) OR</p> <p>one or more hospitalizations with a diagnosis for anxiety states, phobic disorders, or obsessive-compulsive disorders (ICD-9-CM codes 300.0, 300.2, 300.3; ICD-10-CA codes F40, F41.0, F41.1, F41.3, F41.8, F41.9, F42) or</p> <p>2 or more physician visits with a diagnosis for anxiety disorders (ICD-9-CM code 300)</p>
EDI	<p>The EDI is a 104-component kindergarten teacher-completed questionnaire that measures school readiness in 5 important domains of development: physical health and well-being, language and cognitive development, social competence, emotional maturity, and communication skills and general knowledge.⁴⁵ A child is considered not ready in a domain if the child scores in the bottom 10th percentile on the basis of national norms.⁴⁵</p> <p>This study looks at children not ready in ≥ 1 domains, not ready in ≥ 2 domains, and those considered not ready in each individual domain.</p>
SEFI	<p>Neighborhood socioeconomic status at the birth of the index child is measured by the SEFI (a higher SEFI score corresponds with lower socioeconomic status), which is generated by using Manitoba (Statistics Canada) dissemination areas. This index combines neighborhood information on income, education, employment, and family structure. These neighborhoods typically include between 400 and 700 urban individuals and are somewhat larger in rural areas.</p>

SEFI, Socioeconomic Factor Index.

SUPPLEMENTAL TABLE 5 Characteristics of and Standardized Differences Between Women Unexposed and Exposed to Antidepressants During Pregnancy for EDI Not Ready in 1 or More Domains

	Before IPTW Applied		Standardized Difference	After IPTW Applied: Standardized Difference
	Unexposed (<i>n</i> = 2202)	Exposed (<i>n</i> = 387)		
	<i>n</i> (%) or Mean (SD)	<i>n</i> (%) or Mean (SD)		
Forced variables				
Maternal characteristics				
Mother's age at delivery	27.91 (5.94)	29.14 (5.57)	0.21334	0.05587
Rural neighborhood	686 (31.15)	124 (32.04)	0.01910	0.10833
SEFI ^a of neighborhood	0.09 (0.95)	-0.05 (0.86)	0.15164	0.11531
Frequency of diagnosis in the year before the conception of child				
Depressive disorder	117 (5.31)	57 (14.73)	0.31748	0.01652
Affective psychosis	22 (1.00)	7 (1.81)	0.06886	0.04610
Disorders of menstruation and other bleeding	161 (7.31)	18 (4.65)	0.11236	0.15521
Inflammation disorder: cervix, vagina, and vulva	51 (2.32)	6 (1.55)	0.05563	0.02926
Frequency of health services use in the year before conception of child				
Psychiatric care by a psychiatrist	60 (2.72)	21 (5.43)	0.13695	0.03977
Psychiatry consultation	60 (2.72)	19 (4.91)	0.11421	0.07665
Office visits: complete history and psychiatric examination in adults	33 (1.50)	10 (2.58)	0.07681	0.06138
Office visits: complete history and physical examination, new patient	642 (29.16)	87 (22.48)	0.15296	0.08668
Office visits: regional or subsequent visit or well-infant care	1164 (52.86)	174 (44.96)	0.15853	0.07313
Psychotherapy by psychiatrist	77 (3.50)	25 (6.46)	0.13655	0.06766
Psychotherapy by nonpsychiatrist	57 (2.59)	20 (5.17)	0.13389	0.04131
Urine: complete, including microscopic examination of centrifuged specimen	87 (3.95)	16 (4.13)	0.00931	0.08109
Hormones: chorionic gonadotropins (pregnancy test) immunologic or biological	273 (12.40)	37 (9.56)	0.09084	0.09240
Frequency of dispensations in the year before conception of child				
SSRI: sertraline	16 (0.73)	15 (3.88)	0.21120	0.03589
SSRI: citalopram	16 (0.73)	23 (5.94)	0.29366	0.06987
SSRI: paroxetine	19 (0.86)	22 (5.68)	0.27349	0.00272
Other antidepressants: venlafaxine	11 (0.50)	18 (4.65)	0.26438	0.02746
Other antidepressants: bupropion	16 (0.73)	6 (1.55)	0.07771	0.03148
Benzodiazepine-related drugs: lorazepam	51 (2.32)	14 (3.62)	0.07676	0.05589
Benzodiazepine-related drugs: zopiclone	10 (0.45)	6 (1.55)	0.11022	0.02429
Penicillins with extended spectrum: amoxicillin	116 (5.27)	13 (3.36)	0.09406	0.01825
Analgesics: opioids, natural opium alkaloids, codeine, combinations excluding psycholeptics	67 (3.04)	13 (3.36)	0.01798	0.02640

SEFI, Socioeconomic Factor Index.

^a A higher SEFI score corresponds with lower neighborhood socioeconomic status.

SUPPLEMENTAL TABLE 6 Characteristics of and Standardized Differences Between Women Unexposed and Exposed to Antidepressants During Pregnancy for EDI Not Ready in Social

	Before IPTW Applied		Standardized Difference	After IPTW Applied: Standardized Difference
	Unexposed (<i>n</i> = 2190) <i>n</i> (%) or Mean (SD)	Exposed (<i>n</i> = 399) <i>n</i> (%) or Mean (SD)		
Forced variables				
Maternal characteristics				
Mother's age at delivery	28.00 (5.92)	29.00 (5.61)	0.17327	0.01621
Rural neighborhood	686 (31.32)	130 (32.58)	0.02697	0.12322
SEFI ^a of neighborhood	0.08 (0.92)	−0.05 (0.90)	0.14234	0.03207
Frequency of diagnosis in the year before the conception of child				
Depressive disorder	541 (24.70)	186 (46.62)	0.46995	0.09053
Disorders of menstruation and other bleeding	157 (7.17)	20 (5.01)	0.09026	0.00927
Frequency of health services use in the year before conception of child				
Psychotherapy by a psychiatrist	78 (3.56)	27 (6.77)	0.14522	0.02530
Office visits: regional or subsequent visit or well-infant care	266 (12.15)	43 (10.78)	0.04299	0.05759
Psychotherapy by nonpsychiatrist	177 (8.08)	40 (10.03)	0.06775	0.02590
Urine: complete, stick, tape, or tablet one	160 (7.31)	23 (5.76)	0.06240	0.03362
Frequency of dispensations in the year before conception of child				
SSRI: sertraline	16 (0.73)	20 (5.01)	0.25853	0.02836
SSRI: citalopram	15 (0.68)	24 (6.02)	0.29952	0.04274
Other antidepressants: venlafaxine	7 (0.32)	16 (4.01)	0.25564	0.05590
Inhalants: selective β -2-adrenoreceptor agonists, salbutamol	46 (2.10)	14 (3.51)	0.08538	0.10527

SEFI, Socioeconomic Factor Index.

^a A higher SEFI score corresponds with lower neighborhood socioeconomic status.

SUPPLEMENTAL TABLE 7 Characteristics of and Standardized Differences Between Women Unexposed and Exposed to Antidepressants During Pregnancy for EDI Not Ready in Physical

	Before IPTW Applied		Standardized Difference	After IPTW Applied: Standardized Difference
	Unexposed (n = 2182)	Exposed (n = 402)		
	n (%) or Mean (SD)	n (%) or Mean (SD)		
Forced variables				
Maternal characteristics				
Mother's age at delivery	28.06 (5.90)	29.15 (5.49)	0.19119	0.05236
Rural neighborhood	673 (30.84)	135 (33.58)	0.05864	0.02643
SEFI ^a of neighborhood	0.07 (0.92)	-0.03 (0.87)	0.11719	0.07345
Frequency of diagnosis in the year before the conception of child				
Depressive disorder	277 (12.69)	131 (32.59)	0.48934	0.07953
Affective psychosis	22 (1.01)	7 (1.74)	0.06298	0.02984
Disorders of menstruation and other bleeding	150 (6.87)	21 (5.22)	0.06928	0.04507
Inflammation disorder: cervix, vagina, and vulva	50 (2.29)	6 (1.49)	0.05867	0.02910
Other symptoms involving abdomen and pelvis	55 (2.52)	7 (1.74)	0.05398	0.12151
Frequency of health services use in the year before conception of child				
Psychotherapy by a psychiatrist	75 (3.44)	20 (4.98)	0.07667	0.03123
Psychiatry consultation	56 (2.57)	19 (4.73)	0.11542	0.02340
Office visits: complete history and psychiatric examination in adults	31 (1.42)	10 (2.49)	0.07713	0.08062
Office visits: complete history and physical examination, new patient	632 (28.96)	94 (23.38)	0.12722	0.01410
Office visits: regional or subsequent visit or well-infant care	377 (17.28)	96 (23.88)	0.16387	0.02670
Regional history and examination or subsequent visit	66 (3.02)	16 (3.98)	0.05198	0.05990
Psychotherapy by nonpsychiatrist	168 (7.70)	42 (10.45)	0.09580	0.05356
Urine: complete, stick, tape, or tablet one	168 (7.70)	26 (6.47)	0.04802	0.07502
Frequency of dispensations in the year before conception of child				
SSRI: sertraline	16 (0.73)	14 (3.48)	0.19227	0.00813
SSRI: citalopram	8 (0.37)	15 (3.73)	0.23920	0.04253
SSRI: paroxetine	15 (0.69)	21 (5.22)	0.27029	0.02708
Other antidepressants: venlafaxine	8 (0.37)	15 (3.73)	0.23920	0.04253
Benzodiazepine-related drugs: lorazepam	46 (2.11)	14 (3.48)	0.08345	0.01334
Benzodiazepine-related drugs: zopiclone	10 (0.46)	8 (1.99)	0.13964	0.00697
Penicillins with extended spectrum: amoxicillin	110 (5.04)	14 (3.48)	0.07722	0.08575
Inhalants: glucocorticoids; fluticasone	10 (0.46)	6 (1.49)	0.10538	0.05761

SEFI, Socioeconomic Factor Index.

^a A higher SEFI score corresponds with lower neighborhood socioeconomic status.

SUPPLEMENTAL TABLE 8 Characteristics of and Standardized Differences Between Women Unexposed and Exposed to Antidepressants During Pregnancy for EDI Not Ready in Language

	Before IPTW Applied			After IPTW Applied: Standardized Difference
	Unexposed (<i>n</i> = 2186)	Exposed (<i>n</i> = 394)	Standardized Difference	
	<i>n</i> (%) or Mean (SD)	<i>n</i> (%) or Mean (SD)		
Forced variables				
Maternal characteristics				
Mother's age at delivery	27.99 (5.92)	29.17 (5.57)	0.20530	0.07256
Rural neighborhood	675 (30.88)	126 (31.98)	0.02373	0.00393
SEFI ^a of neighborhood	0.08 (0.93)	−0.01 (0.85)	0.10328	0.10421
Frequency of diagnosis in the year before the conception of child				
Depressive disorder	109 (4.99)	63 (15.99)	0.36506	0.04508
Affective psychosis	24 (1.10)	9 (2.28)	0.09211	0.04476
Disorders of menstruation and other bleeding	154 (7.04)	19 (4.82)	0.09418	0.05106
Inflammation disorder: cervix, vagina, and vulva	52 (2.38)	7 (1.78)	0.04222	0.04114
Frequency of health services use in the year before conception of child				
Psychiatric care by a psychiatrist	62 (2.84)	20 (5.08)	0.11510	0.03655
Psychiatry consultation	63 (2.88)	22 (5.58)	0.13449	0.01959
Office visits: complete history and psychiatric examination in adults	32 (1.46)	10 (2.54)	0.07677	0.04554
Office visits: regional or subsequent visit or well-infant care	274 (12.53)	35 (8.88)	0.11828	0.04258
Office visits: subsequent visits	62 (2.84)	15 (3.81)	0.05420	0.01995
Urine: complete, including microscopic examination of centrifuged specimen	86 (3.93)	15 (3.81)	0.00658	0.02272
Hormones: chorionic gonadotropins (pregnancy test), immunologic or biological	265 (12.12)	37 (9.39)	0.08825	0.03435
Frequency of dispensations in the year before conception of child				
SSRI: sertraline	15 (0.69)	12 (3.05)	0.17503	0.00427
SSRI: citalopram	14 (0.64)	20 (5.08)	0.26859	0.04914
SSRI: paroxetine	17 (0.78)	19 (4.82)	0.24703	0.00627
Other antidepressants: venlafaxine	10 (0.46)	15 (3.81)	0.23345	0.00623
Benzodiazepine-related drugs: zopiclone	12 (0.55)	6 (1.52)	0.09630	0.05979
Penicillins with extended spectrum: amoxicillin	109 (4.99)	15 (3.81)	0.05754	0.12000
Inhalants: glucocorticoids, fluticasone	11 (0.50)	6 (1.52)	0.10196	0.02587
Analgesics: opioids, natural opium alkaloids, codeine, combinations excluding psycholeptics	69 (3.16)	14 (3.55)	0.02204	0.00250

SEFI, Socioeconomic Factor Index.

^a A higher SEFI score corresponds with lower neighborhood socioeconomic status.

SUPPLEMENTAL TABLE 9 Characteristics of and Standardized Differences Between Women Unexposed and Exposed to Antidepressants During Pregnancy for EDI Not Ready in Emotional

	Before IPTW Applied		Standardized Difference	After IPTW Applied: Standardized Difference
	Unexposed (n = 2184)	Exposed (n = 392)		
	n (%) or Mean (SD)	n (%) or Mean (SD)		
Forced variables				
Maternal characteristics				
Mother's age at delivery	27.98 (5.94)	29.07 (5.54)	0.19025	0.09929
Rural neighborhood	672 (30.77)	124 (31.63)	0.01864	0.04042
SEFI ^a of neighborhood	0.09 (0.93)	-0.05 (0.91)	0.15264	0.04980
Frequency of diagnosis in the year before the conception of child				
Depressive disorder	109 (4.99)	64 (16.33)	0.37370	0.13659
Affective psychoses	25 (1.14)	9 (2.30)	0.08862	0.01275
Other symptoms involving abdomen and pelvis	50 (2.29)	7 (1.79)	0.03566	0.09185
Disorders of menstruation and other bleeding	156 (7.14)	19 (4.85)	0.09683	0.12935
Frequency of health services use in the year before conception of child				
Psychotherapy by a psychiatrist	20 (0.92)	7 (1.79)	0.07542	0.06017
Psychiatric care by a psychiatrist	15 (0.69)	7 (1.79)	0.09957	0.01159
Regional history and examination or subsequent visit	64 (2.93)	11 (2.81)	0.00745	0.12933
Office visits: regional or subsequent visit or well-infant care	292 (13.37)	38 (9.69)	0.11528	0.12557
Office visits: complete history and psychiatric examination	32 (1.47)	12 (3.06)	0.10747	0.04513
Office visits: complete history and physical examination, new patient	639 (29.26)	91 (23.21)	0.13771	0.08469
Office visits: subsequent visit	74 (3.39)	15 (3.83)	0.02350	0.00958
Psychotherapy by nonpsychiatrist	58 (2.66)	19 (4.85)	0.11551	0.05858
Pregnancy test	259 (11.86)	39 (9.95)	0.06131	0.02633
Urine, complete, stick, tape, or tablet one	159 (7.28)	24 (6.12)	0.04631	0.08852
Frequency of dispensations in the year before conception of child				
SSRI: paroxetine	18 (0.82)	26 (6.63)	0.31025	0.02095
SSRI: citalopram	15 (0.69)	21 (5.36)	0.27539	0.03806
SSRI: sertraline	17 (0.78)	16 (4.08)	0.21577	0.01784
Other antidepressants: venlafaxine	10 (0.46)	14 (3.57)	0.22298	0.01769
Hypnotics and sedatives: zopiclone	12 (0.55)	7 (1.79)	0.11528	0.01685
Opioids: natural opium alkaloids, codeine, combinations excluding psycholeptics	69 (3.16)	16 (4.09)	0.04939	0.05692
Penicillin with extended spectrum: amoxicillin	105 (4.81)	17 (4.34)	0.02255	0.11536
Hormonal contraceptives: progestogens, medroxyprogesterone	19 (0.87)	6 (1.53)	0.06069	0.02401
Inhalants: glucocorticoid, fluticasone	12 (0.55)	6 (1.53)	0.09683	0.04188

SEFI, Socioeconomic Factor Index.

^a A higher SEFI score corresponds with lower neighborhood socioeconomic status.

SUPPLEMENTAL TABLE 10 Characteristics of and Standardized Differences Between Women Unexposed and Exposed to Antidepressants During Pregnancy for EDI Not Ready in Communication

	Before IPTW Applied		Standardized Difference	After IPTW Applied: Standardized Difference
	Unexposed (<i>n</i> = 2194)	Exposed (<i>n</i> = 395)		
	<i>n</i> (%) or Mean (SD)	<i>n</i> (%) or Mean (SD)		
Forced variables				
Maternal characteristics				
Mother's age at delivery	27.96 (5.96)	29.09 (5.41)	0.19822	0.05962
Rural neighborhood	689 (31.40)	125 (31.65)	0.00520	0.04244
SEFI ^a of neighborhood	0.08 (0.92)	−0.04 (0.88)	0.13271	0.11652
Frequency of diagnosis in the year before the conception of child				
Depressive disorder	114 (5.20)	60 (15.19)	0.33492	0.16003
Affective psychosis	24 (1.09)	8 (2.03)	0.07522	0.04600
Inflammation disorder: cervix, vagina, and vulva	50 (2.28)	8 (2.03)	0.01748	0.04592
Frequency of health services use in the year before conception of child				
Psychiatric care by a psychiatrist	61 (2.78)	21 (5.32)	0.12895	0.00728
Psychotherapy by psychiatrist	78 (3.56)	24 (6.08)	0.11795	0.04141
Psychotherapy by nonpsychiatrist	162 (7.38)	44 (11.14)	0.12982	0.02260
Office visits: complete history and physical examination in adults	633 (28.85)	96 (24.30)	0.10308	0.00374
Office visits: regional or subsequent visit or well-infant care	292 (13.31)	42 (10.63)	0.08251	0.00488
Urine: complete, stick, tape, or tablet one	160 (7.29)	26 (6.58)	0.02796	0.00701
Frequency of dispensations in the year before conception of child				
SSRI: citalopram	13 (0.59)	21 (5.32)	0.28174	0.07012
SSRI: paroxetine	17 (0.77)	25 (6.33)	0.30352	0.06384
Other antidepressants: venlafaxine	8 (0.36)	14 (3.54)	0.23123	0.04473
Benzodiazepine-related drugs: zopiclone	11 (0.50)	6 (1.52)	0.10190	0.01446
Penicillins with extended spectrum: amoxicillin	115 (5.24)	15 (3.80)	0.06956	0.03751
Inhalants: glucocorticoids, fluticasone	11 (0.50)	6 (1.52)	0.10190	0.00270
Inhalants: selective β -2-adrenoreceptor agonists, salbutamol	42 (1.91)	14 (3.54)	0.10016	0.01252
Analgesics: opioids, natural opium alkaloids, codeine, combinations excluding psycholeptics	68 (3.10)	14 (3.54)	0.02483	0.09298
Systemic hormonal preparations, excluding sex hormones and insulins, thyroid hormones, levothyroxine sodium	15 (0.68)	6 (1.52)	0.08010	0.00810

SEFI, Socioeconomic Factor Index.

^a A higher SEFI score corresponds with lower neighborhood socioeconomic status.