

### Modular Program Report

The following report(s) provides findings from an FDA-initiated query using its Mini-Sentinel pilot. While Mini-Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Mini-Sentinel, and seeking to better understand the capabilities of the Mini-Sentinel pilot.

Data obtained through Mini-Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from the Mini-Sentinel pilot in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Mini-Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does <u>not</u> mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

**Modular Program Type**: MP 3 - Drug Use – Incident Outcomes (See online specification for details: <u>http://mini-sentinel.org/data\_activities/modular\_programs/details.aspx?ID=111</u>)

Date Posted: January 17, 2012

#### Medical product exposures of interest:

This Modular Program execution included 4 different exposure categories. Each exposure category was assessed independently.

- Varenicline all NDCs (identified with FirstDataBank)
- Buproprion
  - All NDCs (identified with FirstDataBank)
  - NDCs classified as "smoking cessation" by FirstDataBank Enhanced Therapeutic Classification (ETC) hierarchy
  - NDCs classified as "antidepressant" by ETC hierarchy

#### Exposure time at risk:

The new user and days of exposure specifications for each exposure category are as follows:

• The first dispensing after at least 180 days of no exposure to any of the drugs of interest (i.e., new or incident users) was identified between January 1, 2006 and the most recently quality checked data at each Data Partner as of July 5, 2011. The end date across Data



Partners ranged from the end of 2009 to 1<sup>st</sup> quarter of 2011. A treatment episode was created using the number of days supplied on each consecutive dispensing; gaps of 7 days or less between dispensings were bridged, and 7 days of exposure were added to the end of the last dispensing

• Exposed time at risk began on the day after the first incident dispensing and continued for the entire treatment episode (or end of enrollment or occurrence of an outcome)

#### New user inclusion/exclusion criteria and cohort definitions:

New users for each drug of interest were further restricted by eligibility and diagnosis exclusion criteria. Separate analyses were run for 3 different new user cohorts.

- Eligibility requirements Individuals who met the following criteria were included:
  - Continuously enrolled with both medical and drug coverage for at least 180 day before the index date (date of first incident dispensing)
  - At least 20 years or older at the time of first dispensing of varenicline or bupropion
  - Free of any dispensing of any of the drugs of interest in the 180 days before the index date
- Exclusions Individuals with any of the following codes during the 180 days before the initial dispensing were excluded:
  - Acute myocardial infarction (ICD-9-CM 410.xx)
  - Intermediate coronary syndrome or unstable angina (ICD-9-CM 411.1)
  - Acute coronary occlusion without myocardial infarction (ICD-9-CM 411.81)
  - o Coronary atherosclerosis (ICD-9-CM 414.0x)
- New user cohorts individuals who met the inclusion/exclusion criteria were grouped into the following 3 cohorts to allow for 3 independent assessments:
  - o All new users
  - Tobacco cohort: limited to individuals with a diagnosis of nondependent tobacco use disorder (ICD-9-CM Code 305.1) during the 180 days before the index date
  - Depression cohort: limited to individuals with a diagnosis of depression (ICD-9-CM Codes 296.2, 296.3, 300.4, 311) during the 180 days before the index date

#### Outcome of interest definition:

The outcome of interest was identified during exposure time at risk. The composite outcome was defined as any of the following diagnoses flagged as the primary diagnosis observed in the inpatient or emergency department settings during exposure time at risk:

- Acute myocardial infarction (ICD-9-CM 410.xx)
- Intermediate coronary syndrome or unstable angina (ICD-9-CM 411.1)
- Acute coronary occlusion without myocardial infarction (ICD-9-CM 411.81)

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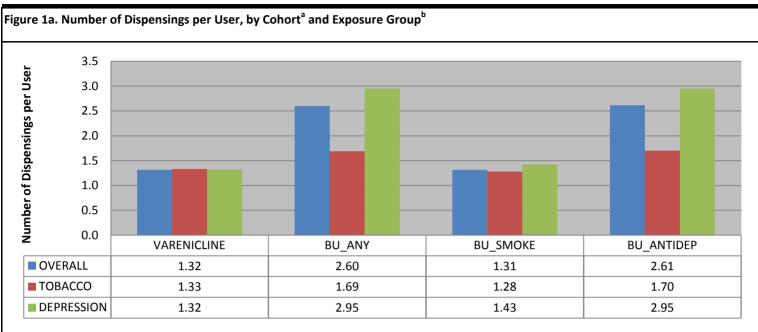
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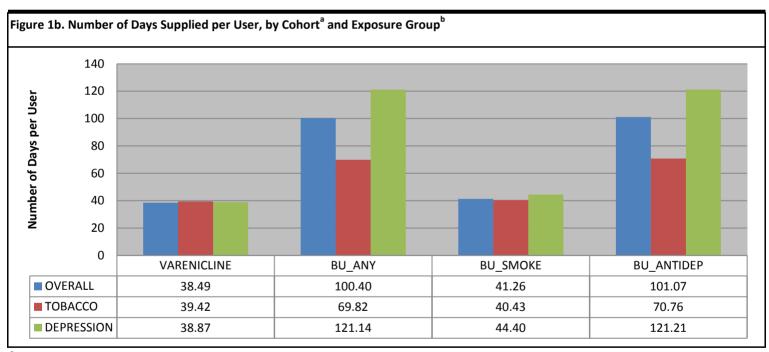
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Table 1. Number of Users, Number of Di	spensings, and Total Days S	upplied by Exposure G	roup <sup>a</sup> and Cohort <sup>b</sup>	
		COHORT		
		OVERALL	TOBACCO	DEPRESSION
Exposure Group				
VARENICLINE	Unique Users	260,845	89,573	22,173
	Dispensings	343,482	119,173	29,216
	Total Days Supplied	10,038,828	3,530,695	861,810
BUPROPION for Any Reason	Unique Users	745,656	113,427	298,280
	Dispensings	1,937,803	191,751	879,113
	Total Days Supplied	74,865,238	7,920,022	36,134,559
BUPROPION for Smoking Cessation	Unique Users	11,209	4,155	1,148
	Dispensings	14,729	5,322	1,636
	Total Days Supplied	462,434	167,999	50,973
BUPROPION for Treatment of Depression	Unique Users	735,932	109,708	297,474
	Dispensings	1,922,436	186,686	876,613
	Total Days Supplied	74,383,568	7,762,456	36,055,926

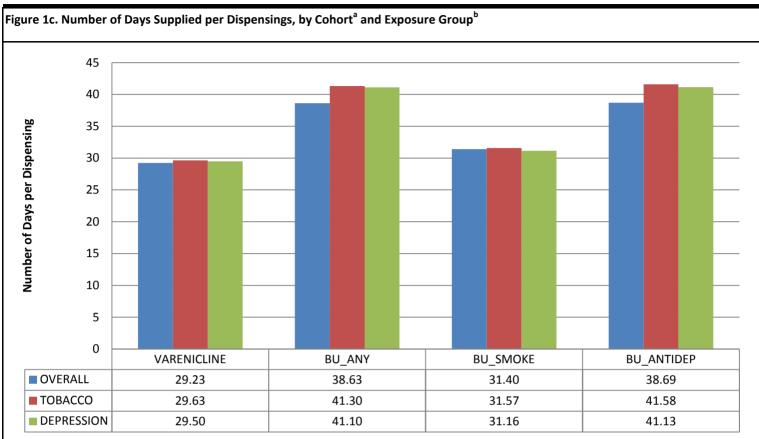






<sup>b</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) BU\_Any: Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) BU\_SMOKE: Bupropion for Smoking Cessation includes individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) BU\_ANTIDEP: Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).



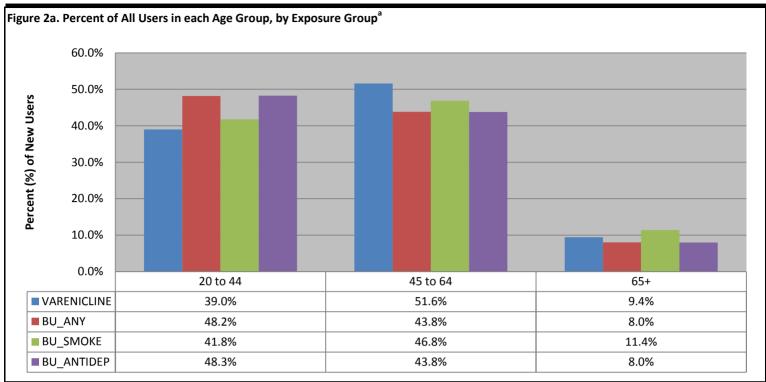


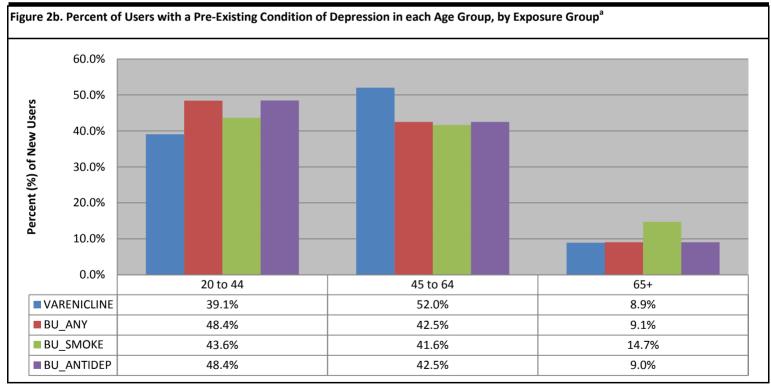
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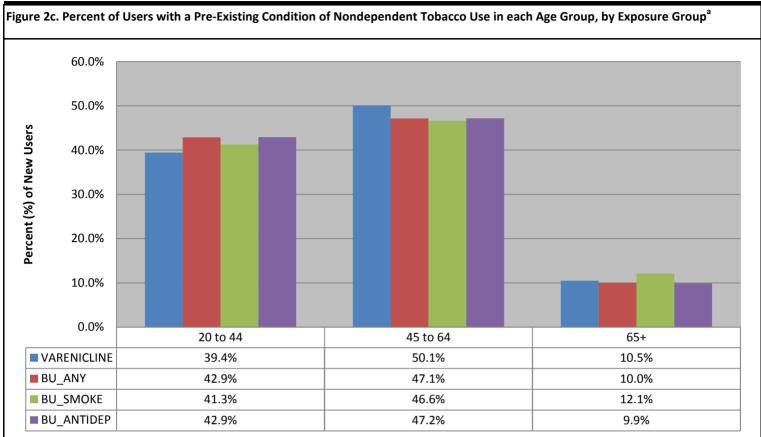
	•	Total Days Supplied by		COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	AgeGroup		OVENALL	TOBACCO	DEFILISSION
VARENICLINE	20 to 44	Unique Users	101,687	35,317	8,66
VARENICEINE	20 (0 44	Dispensings	128,506	45,179	10,88
		Total Days Supplied	3,719,140	1,323,314	315,58
	45 to 64	Unique Users	134,589	44,859	11,53
	45 (0 04	Dispensings	182,588	61,473	15,67
		Total Days Supplied	5,352,719	1,828,028	464,67
	65+	Unique Users	24,569	9,397	1,97
	051	Dispensings	32,388	12,521	2,65
		Total Days Supplied	966,969	379,353	81,55
BUPROPION for Any Reason	20 to 44	Unique Users	359,298	48,636	144,46
Softworton for Any Reason	20 10 44	Dispensings	870,774	79,576	392,62
		Total Days Supplied	31,283,227	3,087,123	14,857,40
	45 to 64	Unique Users	326,581	53,461	126,79
	45 10 04	Dispensings	912,264	93,372	407,17
		Total Days Supplied	36,641,917	3,984,644	17,483,04
	65+	Unique Users	59,777	11,330	27,02
	05+	Dispensings	154,765	11,330	79,31
		Total Days Supplied	6,940,094	848,255	3,794,11
BUPROPION for Smoking Cessation	20 to 44	Unique Users	4,681	1,715	50
Sol tor for shoking cessation	20 10 44	Dispensings	5,967	2,147	70
		Total Days Supplied	181,625	65,895	21,26
	45 to 64	Unique Users	5,251	1,938	47
	45 10 04	Dispensings	7,016	2,534	69
		Total Days Supplied	222,903	80,518	21,79
	65+	Unique Users	1,277	502	16
	031	Dispensings	1,746	641	24
		Total Days Supplied	57,906	21,586	7,92
BUPROPION for Treatment of Depression	20 to 44	Unique Users	355,191	47,068	144,12
So not for the meather of Depression	20 10 44	Dispensings	864,681	77,521	391,77
		Total Days Supplied	31,097,966	3,024,495	14,831,12
	45 to 64	Unique Users	322,054	51,746	126,45
	-5 10 04	Dispensings	905,007	90,934	406,08
		Total Days Supplied	36,412,419	3,908,738	17,449,06
	65+	Unique Users	58,687	10,894	26,89
	0.51	Dispensings	152,748	18,231	78,75
		Total Days Supplied	6,873,183	829,223	3,775,73







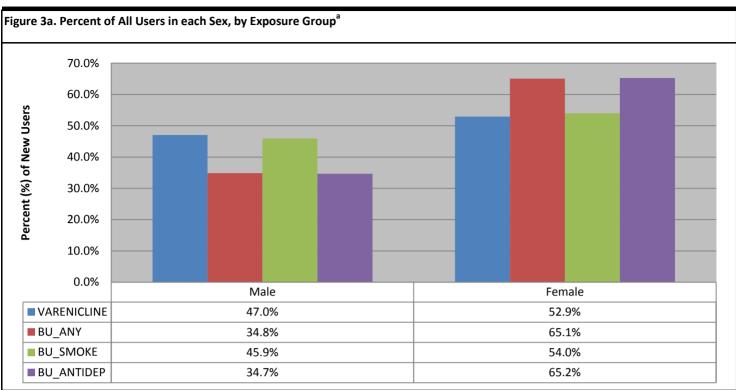


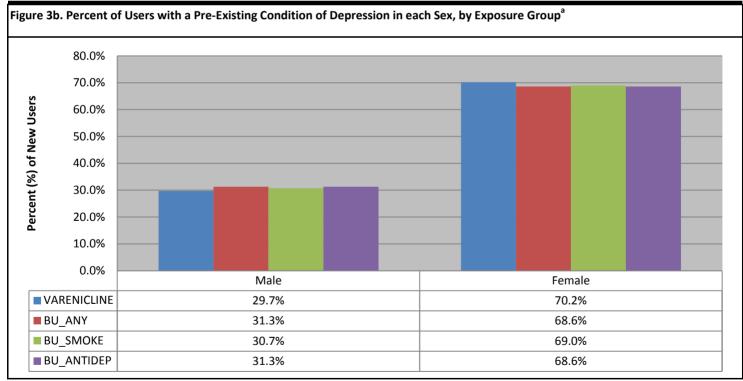




				COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	SEX				
VARENICLINE	Female	Unique Users	137,993	47,440	15,56
		Dispensings	180,434	62,803	20,34
		Total Days Supplied	5,277,262	1,863,268	599,46
	Male	Unique Users	122,667	42,079	6,59
		Dispensings	162,813	56,304	8,85
		Total Days Supplied	4,754,924	1,665,549	261,89
	Unknown	Unique Users	185	54	1
		Dispensings	235	66	1
		Total Days Supplied	6,642	1,878	45
BUPROPION for Any Reason	Ambiguous	Unique Users	2		
		Dispensings	5		
		Total Days Supplied	430		43
	Female	Unique Users	485,259	63,746	204,70
		Dispensings	1,288,095	111,112	601,01
		Total Days Supplied	49,726,933	4,563,865	24,720,52
	Male	Unique Users	259,745	49,632	93,34
		Dispensings	647,919	80,560	277,36
		Total Days Supplied	25,080,988	3,353,732	11,391,24
	Unknown	Unique Users	650	49	22
		Dispensings	1,784	79	72
		Total Days Supplied	56,887	2,425	22,35
<b>3UPROPION for Smoking Cessation</b>	Female	Unique Users	6,054	2,179	79
		Dispensings	7,936	2,790	1,12
		Total Days Supplied	248,622	87,213	35,35
	Male	Unique Users	5,149	1,976	35
		Dispensings	6,787	2,532	50
		Total Days Supplied	213,641	80,786	15,52
	Unknown	Unique Users	6	-	
		Dispensings	6	-	
		Total Days Supplied	171	-	g
BUPROPION for Treatment of	Ambiguous	Unique Users	2		
Depression		Dispensings	5		
		Total Days Supplied	430		43
	Female	Unique Users	480,167	61,842	204,16
		Dispensings	1,279,740	108,509	599,34
		Total Days Supplied	49,465,378	4,483,837	24,667,64
	Male	Unique Users	255,119	47,817	93,08
		Dispensings	640,913	78,098	276,54
		Total Days Supplied	24,861,044	3,276,194	11,365,5
	Unknown	Unique Users	644	49	2:
		Dispensings	1,778	79	72
		Total Days Supplied	56,716	2,425	22,26









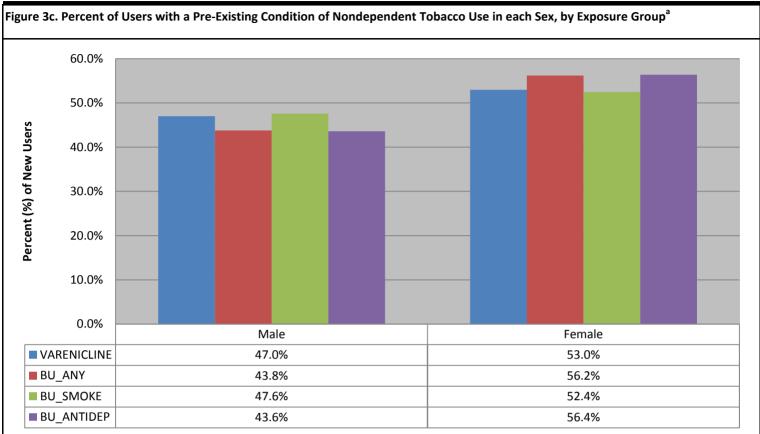


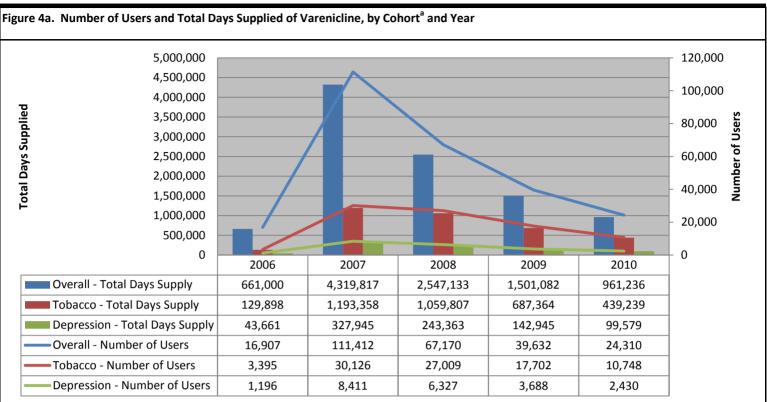


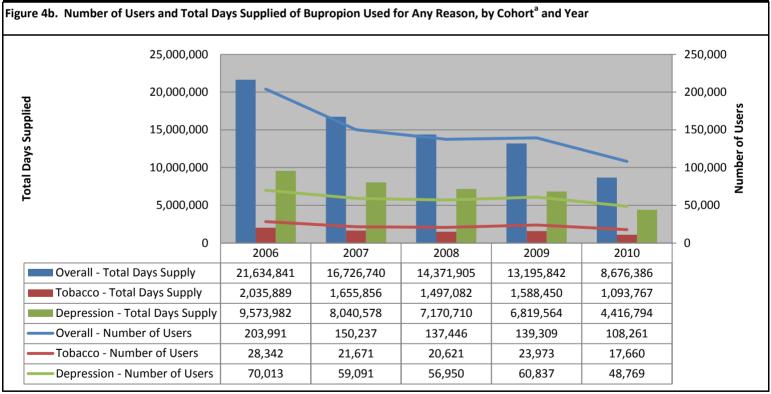
Table 4. Number of Users, Nur	nber of Dispensing	gs, and Total Days Supplied	d by Exposure Group <sup>a</sup> , Y	ear, and Cohort <sup>b</sup>	
				COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear				
VARENICLINE	2006	Unique Users	16,907	3,395	1,196
		Dispensings	23,078	4,541	1,567
		Total Days Supplied	661,000	129,898	43,661
	2007	Unique Users	111,412	30,126	8,411
		Dispensings	147,962	40,520	11,160
		Total Days Supplied	4,319,817	1,193,358	327,945
	2008	Unique Users	67,170	27,009	6,327
		Dispensings	87,130	35,656	8,224
		Total Days Supplied	2,547,133	1,059,807	243,363
	2009	Unique Users	39,632	17,702	3,688
		Dispensings	51,969	23,530	4,912
		Total Days Supplied	1,501,082	687,364	142,945
	2010	Unique Users	24,310	10,748	2,430
		Dispensings	31,809	14,260	3,226
		Total Days Supplied	961,236	439,239	99,579
	2011	Unique Users	1,414	593	121
		Dispensings	1,534	666	127
		Total Days Supplied	48,560	21,029	4,317
BUPROPION for Any Reason	2006	Unique Users	203,991	28,342	70,013
		Dispensings	535,874	48,108	218,488
		Total Days Supplied	21,634,841	2,035,889	9,573,982
	2007	Unique Users	150,237	21,671	59,091
		Dispensings	426,197	36,933	191,886
		Total Days Supplied	16,726,740	1,655,856	8,040,578
	2008	Unique Users	137,446	20,621	56,950
		Dispensings	379,240	35,918	177,677
		Total Days Supplied	14,371,905	1,497,082	7,170,710
	2009	Unique Users	139,309	23,973	60,837
		Dispensings	354,056	41,223	173,392
		Total Days Supplied	13,195,842	1,588,450	6,819,564
	2010	Unique Users	108,261	17,660	48,769
		Dispensings	234,837	28,228	114,345
		Total Days Supplied	8,676,386	1,093,767	4,416,794
	2011	Unique Users	6,412	1,160	2,620
		Dispensings	7,599	1,341	3,325
		Total Days Supplied	259,524	48,978	112,931



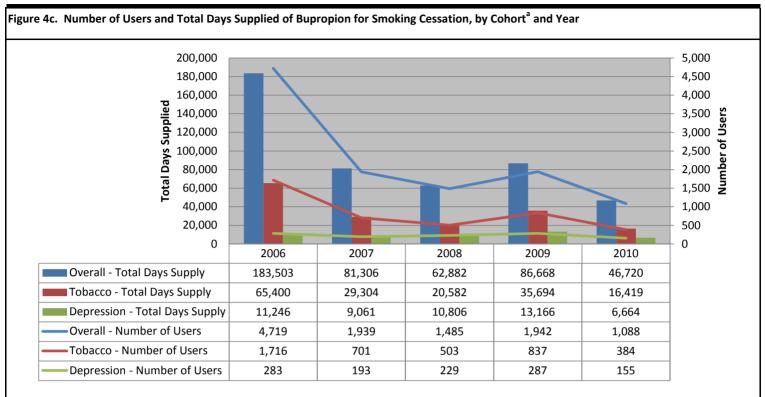
Table 4 (Continued). Number of User	s, Number of	Dispensings, and Total D	ays Supplied by Expos		na conort
				COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear		_		
BUPROPION for Smoking Cessation	2006	Unique Users	4,719	1,716	28
		Dispensings	5,975	2,158	36
		Total Days Supplied	183,503	65,400	11,24
	2007	Unique Users	1,939	701	19
		Dispensings	2,530	894	29
		Total Days Supplied	81,306	29,304	9,06
	2008	Unique Users	1,485	503	22
		Dispensings	2,000	630	34
		Total Days Supplied	62,882	20,582	10,80
	2009	Unique Users	1,942	837	28
		Dispensings	2,723	1,105	419
		Total Days Supplied	86,668	35,694	13,16
	2010	Unique Users	1,088	384	15
		Dispensings	1,458	517	21
		Total Days Supplied	46,720	16,419	6,66
	2011	Unique Users	36	14	
		Dispensings	43	18	
		Total Days Supplied	1,355	600	3
BUPROPION for Treatment of Depression	2006	Unique Users	199,377	26,650	69,757
		Dispensings	529,291	45,875	217,82
		Total Days Supplied	21,431,807	1,968,182	9,553,50
	2007	Unique Users	148,627	21,060	58,96
		Dispensings	423,534	36,120	191,41
		Total Days Supplied	16,642,270	1,630,145	8,026,75
	2008	Unique Users	136,299	20,204	56,81
		Dispensings	376,940	35,346	177,01
		Total Days Supplied	14,297,698	1,478,539	7,148,45
	2009	Unique Users	137,781	23,282	60,65
		Dispensings	351,515	40,206	172,93
		Total Days Supplied	13,116,449	1,556,525	6,805,50
	2010	Unique Users	107,455	17,360	48,66
		Dispensings	233,581	27,809	114,09
		Total Days Supplied	8,636,648	1,080,477	4,408,73
	2011	Unique Users	6,393	1,152	2,62
		Dispensings	7,575	1,330	3,32
		Total Days Supplied	258,696	48,588	112,97











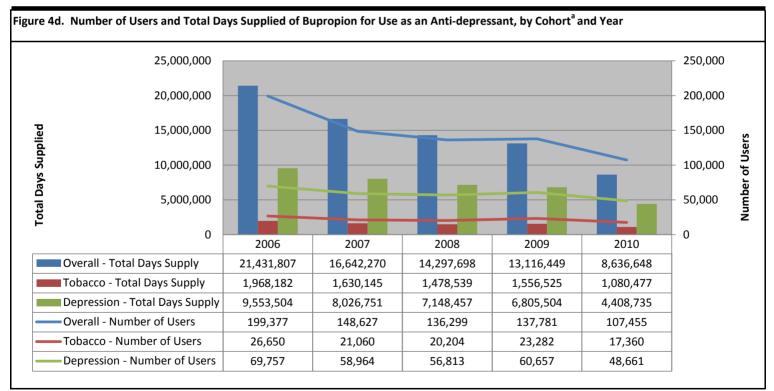


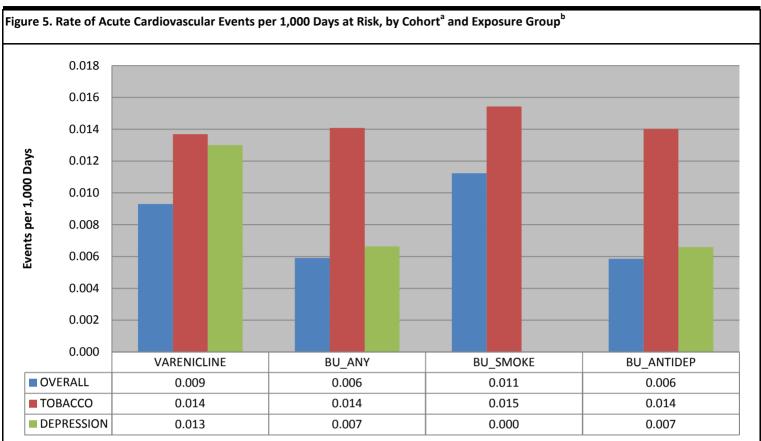


Table 5. Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and Rate of Events per 1,000 Days at Risk by Exposure Group<sup>a</sup> and Cohort<sup>b</sup>

			COHORT	
		OVERALL	TOBACCO	DEPRESSION
Exposure Group				
VARENICLINE	Unique Users	260,845	89,573	22,173
	Days at Risk	11,721,320	4,091,802	999,492
	Number of Events	109	56	13
	Rate of Events per 1,000 Days at Risk	0.009	0.014	0.013
BUPROPION for Any Reason	Unique Users	745,656	113,427	298,280
	Days at Risk	76,568,462	8,382,053	36,164,610
	Number of Events	452	118	240
	Rate of Events per 1,000 Days at Risk	0.006	0.014	0.007
BUPROPION for Smoking Cessation	Unique Users	11,209	4,155	1,148
	Days at Risk	534,336	194,408	57,790
	Number of Events	6	3	0
	Rate of Events per 1,000 Days at Risk	0.011	0.015	0.000
BUPROPION for Treatment of	Unique Users	735,932	109,708	297,474
Depression	Days at Risk	76,031,483	8,201,680	36,085,626
	Number of Events	445	115	238
	Rate of Events per 1,000 Days at Risk	0.006	0.014	0.007

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).





<sup>b</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) BU\_Any: Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) BU\_SMOKE: Bupropion for Smoking Cessation includes individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) BU\_ANTIDEP: Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).



				COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear				
VARENICLINE	2006	Unique Users	16,907	3,395	1,19
		Days at Risk	776,092	152,063	51,74
		Number of Events	7	3	
		Rate of Events per 1,000 Days	0.009	0.020	0.03
		at Risk			
	2007	Unique Users	111,412	30,126	8,41
		Days at Risk	5,081,043	1,395,551	383,81
		Number of Events	42	22	
		Rate of Events per 1,000 Days	0.008	0.016	0.02
		at Risk			
	2008	Unique Users	67,170	27,009	6,32
		Days at Risk	3,002,006	1,240,904	285,82
		Number of Events	36	21	
		Rate of Events per 1,000 Days	0.012	0.017	0.00
		at Risk			
	2009	Unique Users	39,632	17,702	3,68
		Days at Risk	1,762,166	802,915	166,79
		Number of Events	16	6	
		Rate of Events per 1,000 Days	0.009	0.007	0.00
		at Risk			
	2010	Unique Users	24,310	10,748	2,43
		Days at Risk	1,072,732	487,900	109,00
		Number of Events	8	4	
		Rate of Events per 1,000 Days	0.007	0.008	0.00
		at Risk			
	2011	Unique Users	1,414	593	12
		Days at Risk	27,281	12,469	2,31
		Number of Events	0	0	
		Rate of Events per 1,000 Days	0.000	0.000	0.00
		at Risk			



• •	-	mber of Days at Risk, Number of		ts, Percent of Users	s with an Event,
and Rate of Events per 1,00	0 Days at Risk	by Exposure Group <sup>a</sup> , Year, and Co	ohort	COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear				
BUPROPION for Any Reason	2006	Unique Users	203,991	28,342	70,013
		Days at Risk	22,535,024	2,191,358	9,754,571
		Number of Events	136	28	70
		Rate of Events per 1,000 Days at Risk	0.006	0.013	0.007
	2007	Unique Users	150,237	21,671	59,091
		Days at Risk	17,344,047	1,768,961	8,197,298
		Number of Events	109	34	59
		Rate of Events per 1,000 Days at Risk	0.006	0.019	0.007
	2008	Unique Users	137,446	20,621	56,950
		Days at Risk	14,842,438	1,597,905	7,265,347
		Number of Events	86	25	43
		Rate of Events per 1,000 Days	0.006	0.016	0.006
		at Risk			
	2009	Unique Users	139,309	23,973	60,837
		Days at Risk	13,491,812	1,694,424	6,825,519
		Number of Events	88	24	48
		Rate of Events per 1,000 Days at Risk	0.007	0.014	0.007
	2010	Unique Users	108,261	17,660	48,769
		Days at Risk	8,198,813	1,093,920	4,052,335
		Number of Events	33	7	20
		Rate of Events per 1,000 Days at Risk	0.004	0.006	0.005
	2011	Unique Users	6,412	1,160	2,620
		Days at Risk	156,328	35,485	69,540
		Number of Events	0	0	(
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.000



				COHORT	
		F	OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear				
BUPROPION for Smoking Cessation	2006	Unique Users	4,719	1,716	283
		Days at Risk	216,003	77,277	13,141
		Number of Events	4	1	0
		Rate of Events per 1,000 Days at Risk	0.019	0.013	0.000
	2007	Unique Users	1,939	701	193
		Days at Risk	94,618	34,020	10,239
		Number of Events	0	0	0
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.000
	2008	Unique Users	1,485	503	229
		Days at Risk	73,112	23,858	12,252
		Number of Events	0	0	0
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.000
	2009	Unique Users	1,942	837	287
		Days at Risk	99,138	40,948	14,905
		Number of Events	2	2	0
		Rate of Events per 1,000 Days at Risk	0.020	0.049	0.000
	2010	Unique Users	1,088	384	155
		Days at Risk	50,702	17,928	7,226
		Number of Events	0	0	0
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.000
	2011	Unique Users	36	14	1
		Days at Risk	763	377	27
		Number of Events	0	0	0
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.000

Table 6 (Continued). Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).

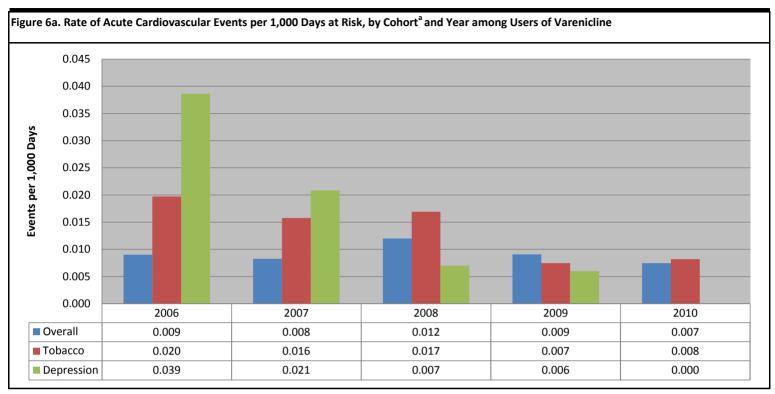


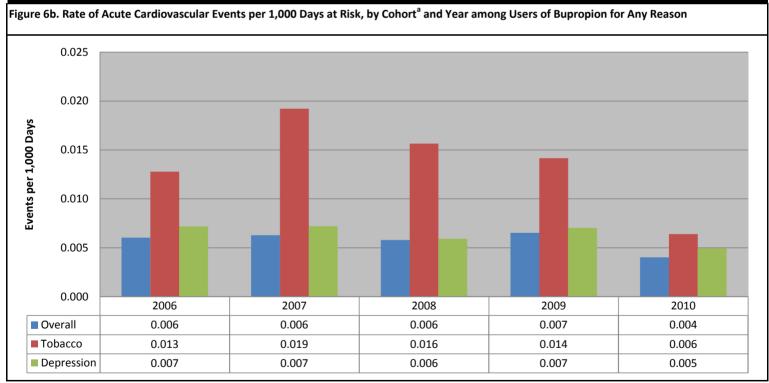
				COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear				
BUPROPION for Treatment of	2006	Unique Users	199,377	26,650	69,75
Depression		Days at Risk	22,301,240	2,112,067	9,732,56
		Number of Events	131	27	6
		Rate of Events per 1,000 Days at Risk	0.006	0.013	0.00
	2007	Unique Users	148,627	21,060	58,96
		Days at Risk	17,249,104	1,739,240	8,183,08
		Number of Events	109	34	5
		Rate of Events per 1,000 Days at Risk	0.006	0.020	0.00
	2008	Unique Users	136,299	20,204	56,81
		Days at Risk	14,764,044	1,576,648	7,244,64
		Number of Events	87	26	4
		Rate of Events per 1,000 Days at Risk	0.006	0.016	0.00
	2009	Unique Users	137,781	23,282	60,65
		Days at Risk	13,404,283	1,658,981	6,811,17
		Number of Events	85	21	4
		Rate of Events per 1,000 Days at Risk	0.006	0.013	0.00
	2010	Unique Users	107,455	17,360	48,66
		Days at Risk	8,156,870	1,079,473	4,044,60
		Number of Events	33	7	2
		Rate of Events per 1,000 Days at Risk	0.004	0.006	0.00
	2011	Unique Users	6,393	1,152	2,62
		Days at Risk	155,942	35,271	69,56
		Number of Events	0	0	· ·
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.00

Table 6 (Continued). Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and

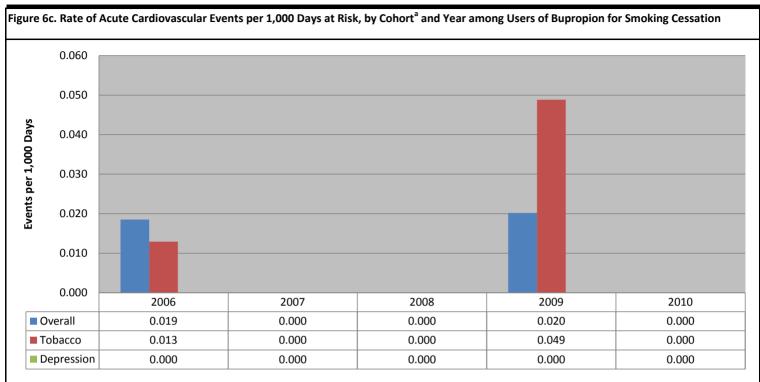
<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).











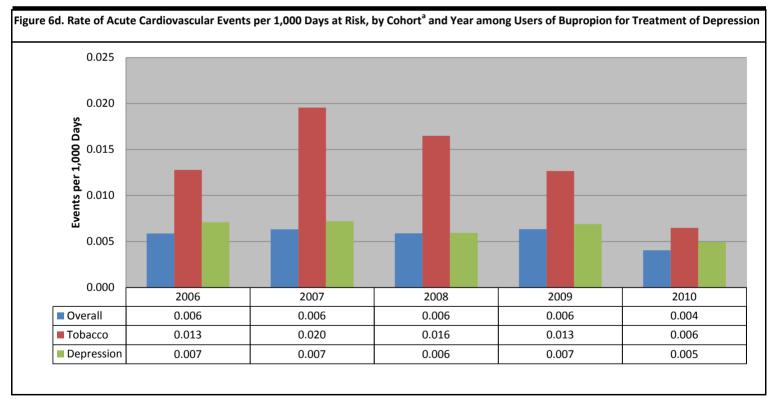




Table 7. Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and Rate of Events per 1,000 Days at Risk, by Exposure Group<sup>a</sup>, Age Group, and Cohort<sup>b</sup>

				COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	AgeGroup				
VARENICLINE	20 to 44	Unique Users	101,687	35,317	8,66
		Days at Risk	4,359,002	1,538,381	368,23
		Number of Events	12	4	
		Rate of Events per 1,000 Days at Risk	0.003	0.003	0.00
	45 to 64	Unique Users	134,589	44,859	11,53
		Days at Risk	6,237,841	2,115,455	537,62
		Number of Events	71	38	1
		Rate of Events per 1,000 Days at Risk	0.011	0.018	0.02
	65+	Unique Users	24,569	9,397	1,97
		Days at Risk	1,124,477	437,966	93,63
		Number of Events	26	14	
		Rate of Events per 1,000 Days at Risk	0.023	0.032	0.02
BUPROPION for Any Reason	20 to 44	Unique Users	359,298	48,636	144,46
		Days at Risk	32,394,207	3,289,347	15,063,34
		Number of Events	36	12	1
		Rate of Events per 1,000 Days at Risk	0.001	0.004	0.00
	45 to 64	Unique Users	326,581	53,461	126,79
		Days at Risk	37,207,454	4,199,380	17,366,67
		Number of Events	239	66	12
		Rate of Events per 1,000 Days at Risk	0.006	0.016	0.00
	65+	Unique Users	59,777	11,330	27,02
		Days at Risk	6,966,801	893,326	3,734,59
		Number of Events	177	40	9
		Rate of Events per 1,000 Days at Risk	0.025	0.045	0.02

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).

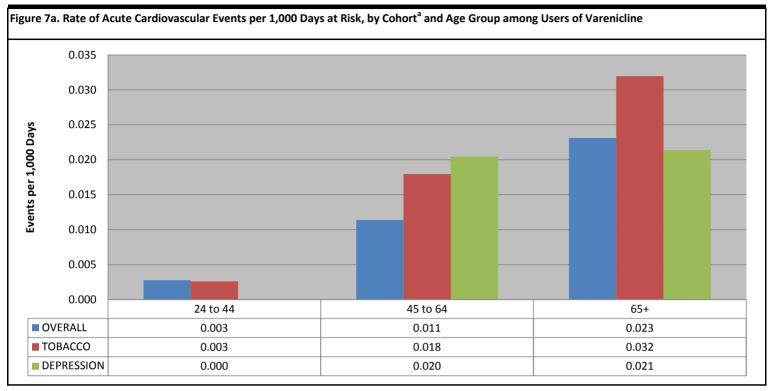


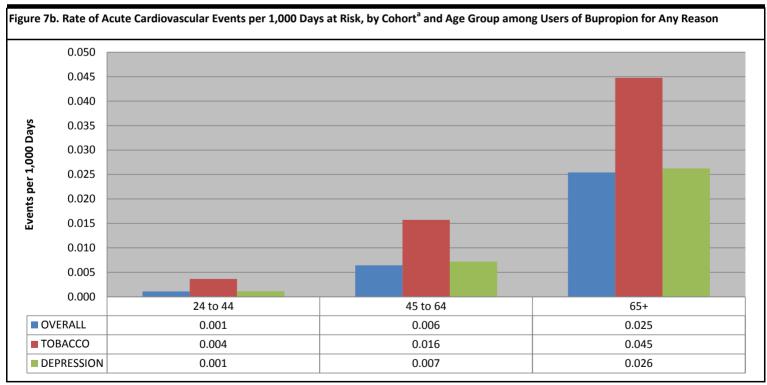
				COHORT	
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	AgeGroup				
BUPROPION for Smoking	20 to 44	Unique Users	4,681	1,715	50
Cessation		Days at Risk	211,864	76,794	24,10
		Number of Events	0	0	
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.000
	45 to 64	Unique Users	5,251	1,938	478
		Days at Risk	256,191	92,946	24,723
		Number of Events	5	2	(
		Rate of Events per 1,000 Days at Risk	0.020	0.022	0.000
	65+	Unique Users	1,277	502	169
		Days at Risk	66,281	24,668	8,959
		Number of Events	1	1	(
		Rate of Events per 1,000 Days at Risk	0.015	0.041	0.000
BUPROPION for Treatment of	20 to 44	Unique Users	355,191	47,068	144,12
Depression		Days at Risk	32,183,785	3,216,965	15,035,842
		Number of Events	35	12	16
		Rate of Events per 1,000 Days at Risk	0.001	0.004	0.003
	45 to 64	Unique Users	322,054	51,746	126,45
		Days at Risk	36,951,861	4,112,811	17,331,87
		Number of Events	234	64	12
		Rate of Events per 1,000 Days at Risk	0.006	0.016	0.00
	65+	Unique Users	58,687	10,894	26,89
		Days at Risk	6,895,837	871,904	3,717,90
		Number of Events	176	39	9
		Rate of Events per 1,000 Days at Risk	0.026	0.045	0.02

Table 7 (Continued). Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event,

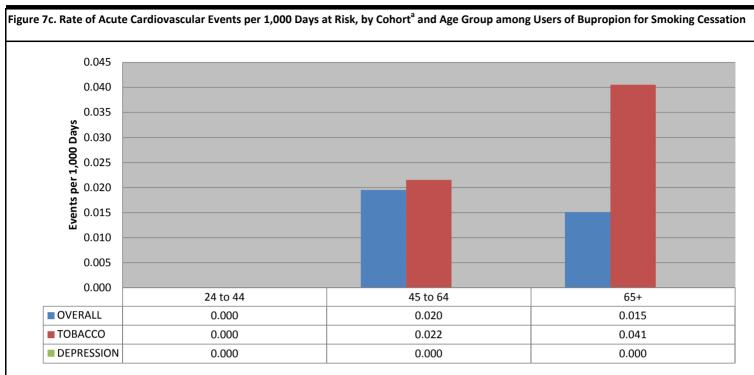
Rate of Events per 1,000 Days at Risk0.0260.0450.026a Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2)Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation:Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by FirstDataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use ofbupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).

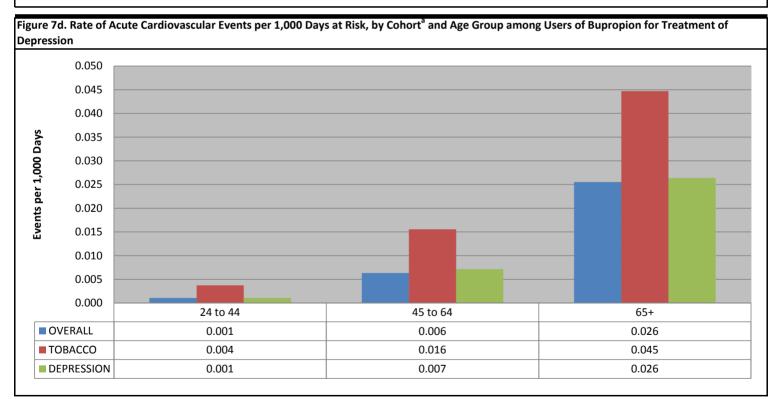












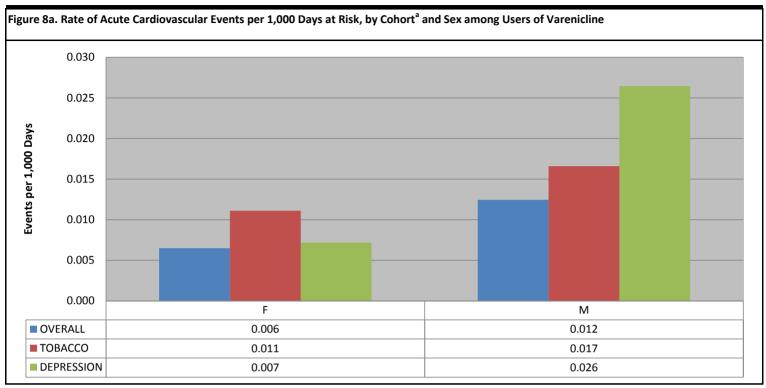


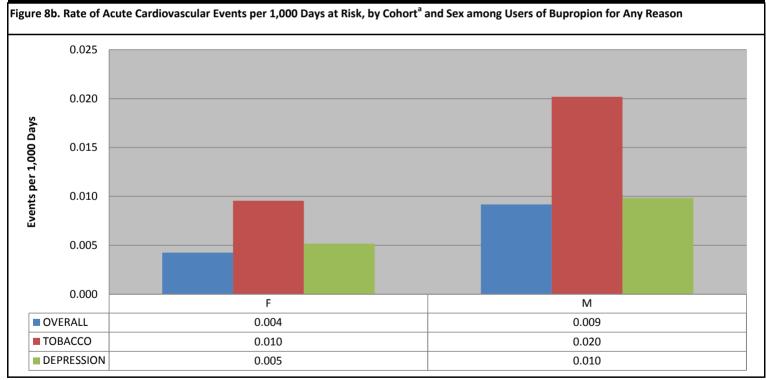
			COHORT		
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	SEX				
VARENICLINE	Female	Unique Users	137,993	47,440	15,56
		Days at Risk	6,168,474	2,160,400	696,39
		Number of Events	40	24	
		Rate of Events per 1,000 Days at Risk	0.006	0.011	0.00
	Male	Unique Users	122,667	42,079	6,59
		Days at Risk	5,545,001	1,929,221	302,61
		Number of Events	69	32	
		Rate of Events per 1,000 Days at Risk	0.012	0.017	0.02
	Unknown	Unique Users	185	54	1
		Days at Risk	7,845	2,181	48
		Number of Events	0	0	
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.00
BUPROPION for Any Reason	Ambiguous	Unique Users	2		
	_	Days at Risk	293		293
		Number of Events	0		
		Rate of Events per 1,000 Days at Risk	0.000		0.00
	Female	Unique Users	485,259	63,746	204,70
		Days at Risk	50,796,120	4,812,964	24,754,08
		Number of Events	216	46	12
		Rate of Events per 1,000 Days at Risk	0.004	0.010	0.00
	Male	Unique Users	259,745	49,632	93,34
		Days at Risk	25,713,974	3,566,479	11,387,86
		Number of Events	236	72	11
		Rate of Events per 1,000 Days at Risk	0.009	0.020	0.01
	Unknown	Unique Users	650	49	22
		Days at Risk	58,075	2,610	22,36
		Number of Events	0	0	
		Rate of Events per 1,000 Days at Risk	0.000	0.000	0.000



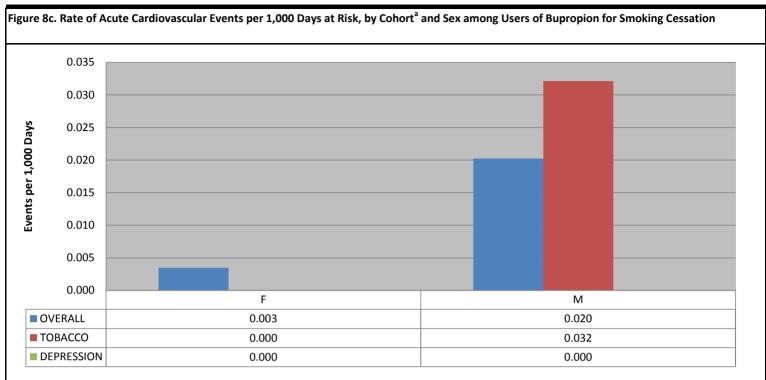
			COHORT		
			OVERALL	TOBACCO	DEPRESSION
Exposure Group	SEX				
BUPROPION for Smoking	Female	Unique Users	6,054	2,179	793
Cessation		Days at Risk	287,109	100,928	40,082
		Number of Events	1	0	
		Rate of Events per 1,000 Days			
		at Risk	0.003	0.000	0.00
	Male	Unique Users	5,149	1,976	353
		Days at Risk	247,014	93,480	17,59
		Number of Events	5	3	
		Rate of Events per 1,000 Days			
		at Risk	0.020	0.032	0.00
	Unknown	Unique Users	6	0	
		Days at Risk	213	0	11:
		Number of Events	0	0	
		Rate of Events per 1,000 Days			
		at Risk	0.000		0.000
BUPROPION for Treatment of	Ambiguous	Unique Users	2		
Depression		Days at Risk	293		293
		Number of Events	0		
		Rate of Events per 1,000 Days			
		at Risk	0.000		0.00
	Female	Unique Users	480,167	61,842	204,165
		Days at Risk	50,507,670	4,721,918	24,701,81
		Number of Events	214	45	12
		Rate of Events per 1,000 Days			
		at Risk	0.004	0.010	0.00
	Male	Unique Users	255,119	47,817	93,08
		Days at Risk	25,465,658	3,477,152	11,361,26
		Number of Events	231	70	11:
		Rate of Events per 1,000 Days			
		at Risk	0.009	0.020	0.010
	Unknown	Unique Users	644	49	21
		Days at Risk	57,862	2,610	22,25
		Number of Events	0	0	, (
		Rate of Events per 1,000 Days			
		at Risk	0.000	0.000	0.000

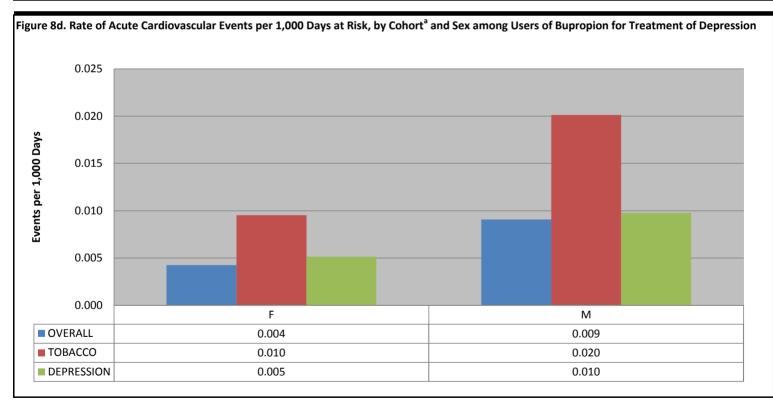














					COHORT	
				OVERALL	TOBACCO	DEPRESSION
Exposure Group	SEX	AgeGroup				
VARENICLINE	Female	20 to 44	Unique Users	53,518	18,459	6,09
			Days at Risk	2,273,462	799,872	258,81
			Number of Events	2	2	
			Rate of Events per 1,000	0.001	0.003	0.00
			Days at Risk			
		45 to 64	Unique Users	71,362	23,881	8,08
			Days at Risk	3,300,209	1,124,259	373,24
			Number of Events	24	13	
			Rate of Events per 1,000	0.007	0.012	0.00
			Days at Risk			
		65+	Unique Users	13,113	5,100	1,38
			Days at Risk	594,803	236,269	64,32
			Number of Events	14	9	
			Rate of Events per 1,000	0.024	0.038	0.03
			Days at Risk			
	Male	20 to 44	Unique Users	48,069	16,826	2,56
			Days at Risk	2,081,673	737,367	109,15
			Number of Events	10	2	
			Rate of Events per 1,000	0.005	0.003	0.00
			Days at Risk			
		45 to 64	Unique Users	63,156	20,961	3,44
			Days at Risk	2,934,240	990,368	164,14
			Number of Events	47	25	
			Rate of Events per 1,000	0.016	0.025	0.04
			Days at Risk			
		65+	Unique Users	11,442	4,292	58
			Days at Risk	529,088	201,486	29,30
			Number of Events	12	5	
			Rate of Events per 1,000	0.023	0.025	0.00
			Days at Risk			
	Unknown	20 to 44	Unique Users	100	32	
			Days at Risk	3,867	1,142	25
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk	74		
		45 to 64	Unique Users	71	17	
			Days at Risk	3,392	828	22
			Number of Events	0	0	0.00
			Rate of Events per 1,000	0.000	0.000	0.00
		CE -	Days at Risk			
		65+	Unique Users	14	5	
			Days at Risk	586	211	
			Number of Events Rate of Events per 1,000	0	0	
			Days at Risk	0.000	0.000	



					COHORT	
				OVERALL	TOBACCO	DEPRESSION
xposure Group	SEX	AgeGroup				
3UPROPION for Any Reason	Ambiguous	20 to 44	Unique Users	2		
			Days at Risk	293		
			Number of Events	0		
			Rate of Events per 1,000	0.000		0.0
			Days at Risk			
	Female	20 to 44	Unique Users	241,540	27,783	101,8
			Days at Risk	22,375,503	1,926,012	10,728,
			Number of Events	19	6	
			Rate of Events per 1,000	0.001	0.003	0.
			Days at Risk			
		45 to 64	Unique Users	207,219	29,586	85,
			Days at Risk	24,174,893	2,388,234	11,634,3
			Number of Events	111	25	/ /
			Rate of Events per 1,000	0.005	0.010	0.0
			Days at Risk			-
		65+	Unique Users	36,500	6,377	17,
		0.5.	Days at Risk	4,245,724	498,718	2,390,
			Number of Events	86	450,718	2,350,
			Rate of Events per 1,000	0.020	0.030	0.
			Days at Risk	0.020	0.030	0.
	Male	20 to 44	Unique Users	117,351	20,826	42,
	wate	201044	Days at Risk	9,986,486	1,361,912	4,322,
			Number of Events	<u>9,980,480</u> 17	1,301,912	4,322,
			Rate of Events per 1,000		0.004	0
				0.002	0.004	0.0
		45 to 64	Days at Risk	110 159	22.956	41
		45 to 64	Unique Users	119,158 13,010,614	23,856 1,810,110	41, 5,723,
			Days at Risk			5,725,
			Number of Events	128	41	0
			Rate of Events per 1,000	0.010	0.023	0.
			Days at Risk			
		65+	Unique Users	23,236	4,950	9,
			Days at Risk	2,716,874	394,457	1,340,
			Number of Events	91	25	
			Rate of Events per 1,000	0.033	0.063	0.
			Days at Risk			
	Unknown	20 to 44	Unique Users	405	27	
			Days at Risk	31,925	1,423	11,
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.
			Days at Risk			
		45 to 64	Unique Users	204	19	
			Days at Risk	21,947	1,036	8,
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.
			Days at Risk			
		65+	Unique Users	41	3	
			Days at Risk	4,203	151	2,
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.
			Days at Risk			

 Table 9 (Continued). Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and Rate of Events per 1,000

 Days at Risk by Exposure Group<sup>a</sup>, Sex, Age Group, and Cohort<sup>b</sup>

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).



AgeGroup 20 to 44 45 to 64 65+	Unique Users         Days at Risk         Number of Events         Rate of Events per 1,000         Days at Risk         Unique Users         Days at Risk         Number of Events         Rate of Events per 1,000         Days at Risk         Number of Events         Rate of Events per 1,000         Days at Risk         Unique Users         Days at Risk         Unique Users         Days at Risk	OVERALL  2,611  117,644  0  0  2,723  2,723  131,563  1  0.008  720	TOBACCO           893           39,761           0           0.000           995           47,005           0           0.000	<u>33</u> 17,32
20 to 44 45 to 64 65+	Days at RiskNumber of EventsRate of Events per 1,000Days at RiskUnique UsersDays at RiskNumber of EventsRate of Events per 1,000Days at RiskUnique Users	117,644 0 0.000 2,723 131,563 1 0.008	39,761 0 0.000 995 47,005 0	16,92 0.00 33 17,32
45 to 64 65+	Days at RiskNumber of EventsRate of Events per 1,000Days at RiskUnique UsersDays at RiskNumber of EventsRate of Events per 1,000Days at RiskUnique Users	117,644 0 0.000 2,723 131,563 1 0.008	39,761 0 0.000 995 47,005 0	16,92 0.00 33 17,32
65+	Number of EventsRate of Events per 1,000Days at RiskUnique UsersDays at RiskNumber of EventsRate of Events per 1,000Days at RiskUnique Users	0 0.000 2,723 131,563 1 0.008	0 0.000 995 47,005 0	0.00 33 17,32
65+	Rate of Events per 1,000Days at RiskUnique UsersDays at RiskNumber of EventsRate of Events per 1,000Days at RiskUnique Users	2,723 131,563 1 0.008	995 47,005 0	0.00 33 17,32 0.00
65+	Days at Risk         Unique Users         Days at Risk         Number of Events         Rate of Events per 1,000         Days at Risk         Unique Users	2,723 131,563 1 0.008	995 47,005 0	<u>33</u> 17,32
65+	Unique Users	131,563 1 0.008	47,005 0	17,32
65+	Days at Risk Number of Events Rate of Events per 1,000 Days at Risk Unique Users	131,563 1 0.008	47,005 0	17,32
	Number of Events Rate of Events per 1,000 Days at Risk Unique Users	1 0.008	0	
	Rate of Events per 1,000 Days at Risk Unique Users		0 0.000	0.00
	Days at Risk Unique Users		0.000	0.00
	Unique Users	720		
		720		
	Davs at Risk		291	11
		37,902	14,162	5,83
	Number of Events	0	0	
	Rate of Events per 1,000	0.000	0.000	0.00
	Days at Risk			
20 to 44	Unique Users	2,068	822	15
	Days at Risk	94,146	37,033	7,15
	Number of Events	0	0	
	Rate of Events per 1,000	0.000	0.000	0.00
	Days at Risk			
45 to 64	Unique Users	2,525	943	14
	Days at Risk	124,526	45,941	7,35
	Number of Events	4	2	
	Rate of Events per 1,000	0.032	0.044	0.00
	Days at Risk			
65+	Unique Users	556	211	5
	Days at Risk	28,342	10,506	3,08
	Number of Events	1	1	
	Rate of Events per 1,000	0.035	0.095	0.00
	Days at Risk			
n 20 to 44	Unique Users	2	0	
	Days at Risk	74	0	3
	Number of Events	0	0	
	Rate of Events per 1,000	0.000		0.00
	Days at Risk			
45 to 64	Unique Users	3	0	
	Days at Risk	102	0	3
	Number of Events	0	0	
	Rate of Events per 1,000	0.000		0.00
	Days at Risk			
65+	Unique Users	1	0	
	Days at Risk	37	0	3
	Number of Events	0	0	
		0.000		0.00
		Number of EventsRate of Events per 1,000Days at Risk45 to 64Unique UsersDays at RiskNumber of EventsRate of Events per 1,000Days at Risk65+Unique UsersDays at Risk	Number of Events0Rate of Events per 1,0000.000Days at Risk045 to 64Unique UsersDays at Risk102Number of Events0Rate of Events per 1,0000.000Days at Risk1065+Unique UsersDays at Risk37Number of Events0Rate of Events per 1,0000.000	Number of Events         0         0           Rate of Events per 1,000         0.000         .           Days at Risk         0         0           45 to 64         Unique Users         3         0           Days at Risk         102         0           Number of Events         0         0           Rate of Events per 1,000         0.000         .           Days at Risk         102         0           65+         Unique Users         1         0           Days at Risk         37         0           Number of Events         0         0

Table 9 (Continued). Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and Rate of Events

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).

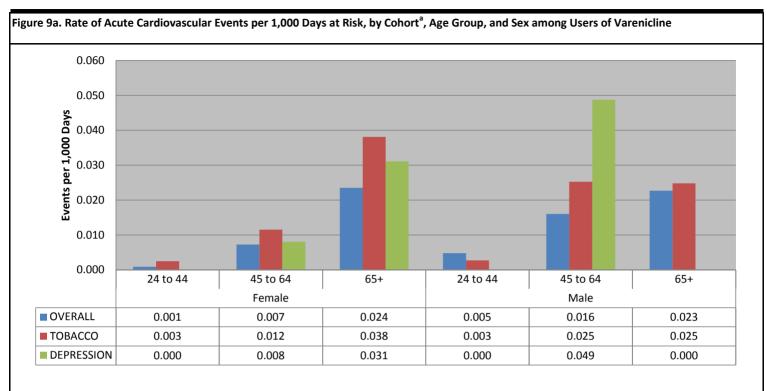


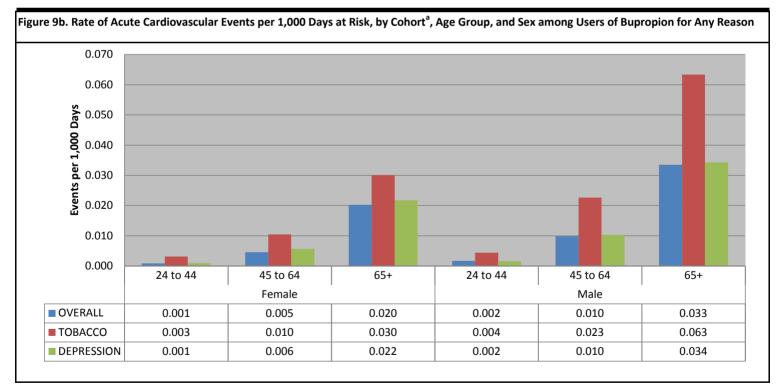
					COHORT	
				OVERALL	TOBACCO	DEPRESSION
xposure Group	SEX	AgeGroup				
BUPROPION for Treatment of Depression	Ambiguous	20 to 44	Unique Users	2		
			Days at Risk	293		2
			Number of Events	0		
			Rate of Events per 1,000	0.000		0.0
			Days at Risk			
	Female	20 to 44	Unique Users	239,326	26,989	101,6
			Days at Risk	22,257,929	1,889,884	10,709,0
			Number of Events	19	6	
			Rate of Events per 1,000	0.001	0.003	0.0
			Days at Risk			
		45 to 64	Unique Users	204,938	28,723	84,8
			Days at Risk	24,043,401	2,344,341	11,611,8
			Number of Events	109	24	· · ·
			Rate of Events per 1,000	0.005	0.010	0.0
			Days at Risk			
		65+	Unique Users	35,903	6,130	17,6
			Days at Risk	4,206,340	487,693	2,380,9
			Number of Events	86	15	
			Rate of Events per 1,000	0.020	0.031	0.0
			Days at Risk			
	Male	20 to 44	Unique Users	115,460	20,052	42,3
			Days at Risk	9,893,712	1,325,658	4,315,2
			Number of Events	16	_,,	.,===,=
			Rate of Events per 1,000	0.002	0.005	0.0
			Days at Risk			
		45 to 64	Unique Users	116,915	23,004	41,5
			Days at Risk	12,886,615	1,767,434	5,711,6
			Number of Events	125	40	-,,-
			Rate of Events per 1,000	0.010	0.023	0.0
			Days at Risk			
		65+	Unique Users	22,744	4,761	9,1
			Days at Risk	2,685,331	384,060	1,334,3
			Number of Events	90	24	
			Rate of Events per 1,000	0.034	0.062	0.0
			Days at Risk	0.001	0.002	
	Unknown	20 to 44	Unique Users	403	27	1
	•	201011	Days at Risk	31,851	1,423	11,3
			Number of Events	0	0	11/0
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
		45 to 64	Unique Users	201	19	
		10 10 0 1	Days at Risk	21,845	1,036	8,3
			Number of Events	0	0	0,0
			Rate of Events per 1,000	0.000	0.000	0.0
	1		Days at Risk	0.000	0.000	0.0
	1	65+	Unique Users	40	3	
	1	0.51	Days at Risk	4,166	151	2,6
			Number of Events	4,100	0	۷,۵
	1		Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk	0.000	0.000	0.0

Table 9 (Continued). Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and Rate of Events per 1,000 Days at Risk by Exposure Group<sup>a</sup>, Sex, Age Group, and Cohort<sup>b</sup>

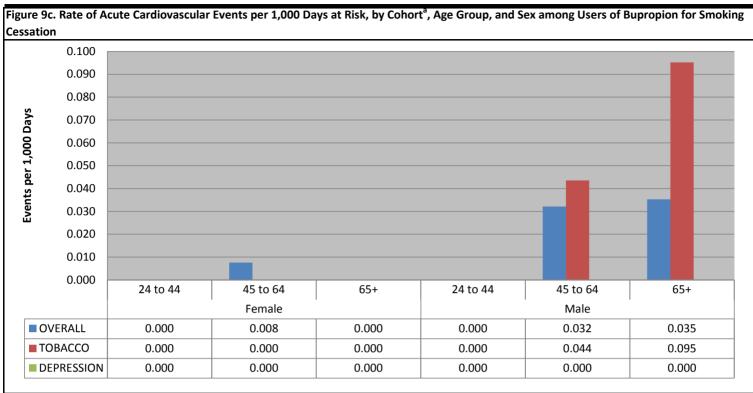
<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).

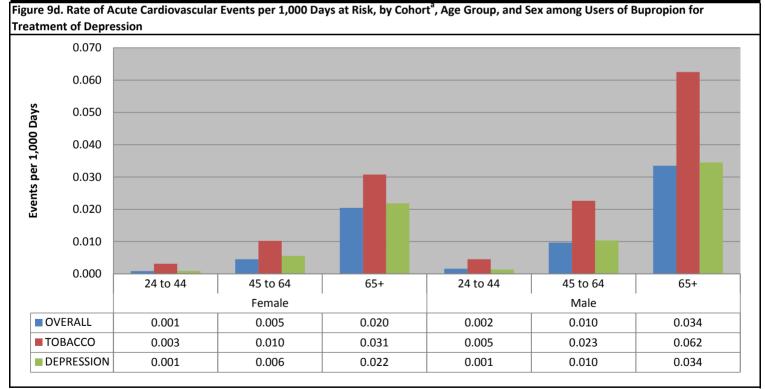














					COHORT	
				OVERALL	TOBACCO	DEPRESSION
kposure Group	IndexYear	AgeGroup				
ARENICLINE	2006	20 to 44	Unique Users	5,766	1,298	47
			Days at Risk	252,945	55,578	20,16
			Number of Events	2	1	
			Rate of Events per 1,000	0.008	0.018	0.00
			Days at Risk			
		45 to 64	Unique Users	9,771	1,879	67
			Days at Risk	459,643	86,417	29,49
			Number of Events	4	2	
			Rate of Events per 1,000	0.009	0.023	0.06
			Days at Risk			
		65+	Unique Users	1,370	218	4
			Days at Risk	63,504	10,068	2,08
			Number of Events	1	0	
			Rate of Events per 1,000	0.016	0.000	0.00
			Days at Risk			
	2007	20 to 44	Unique Users	42,014	11,862	3,4
			Days at Risk	1,819,784	520,318	146,5
			Number of Events	4	1	
			Rate of Events per 1,000	0.002	0.002	0.0
			Days at Risk			
		45 to 64	Unique Users	60,566	15,857	4,4
			Days at Risk	2,843,208	756,764	210,4
			Number of Events	28	16	
			Rate of Events per 1,000	0.010	0.021	0.0
			Days at Risk			
		65+	Unique Users	8,832	2,407	5
			Days at Risk	418,051	118,469	26,8
			Number of Events	10	5	
			Rate of Events per 1,000	0.024	0.042	0.0
			Days at Risk			
	2008	20 to 44	Unique Users	26,927	10,419	2,3
			Days at Risk	1,151,626	456,188	99,93
			Number of Events	5	1	
			Rate of Events per 1,000	0.004	0.002	0.0
			Days at Risk			
		45 to 64	Unique Users	32,395	13,040	3,2
			Days at Risk	1,495,954	619,247	150,9
			Number of Events	19	14	
			Rate of Events per 1,000	0.013	0.023	0.0
			Days at Risk			
		65+	Unique Users	7,848	3,550	7.
			Days at Risk	354,426	165,469	34,9
			Number of Events	12	6	
			Rate of Events per 1,000	0.034	0.036	0.02
			Days at Risk			

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).



					COHORT	
				OVERALL	TOBACCO	DEPRESSION
xposure Group	IndexYear	AgeGroup				
ARENICLINE	2009	20 to 44	Unique Users	17,327	7,672	1,547
AREINICEINE	2005	20 10 44	Days at Risk	734,352	331,837	66,562
			Number of Events	1	1	00,50
			Rate of Events per 1,000	0.001	0.003	0.000
			Days at Risk	0.001	0.000	0.000
		45 to 64	Unique Users	19,377	8,595	1,84
		10 10 0 1	Days at Risk	890,110	402,667	86,290
			Number of Events	15	5	00,250
			Rate of Events per 1,000	0.017	0.012	0.012
			Days at Risk	0.017	0.012	0.011
		65+	Unique Users	2,928	1,435	294
		031	Days at Risk	137,704	68,411	13,945
			Number of Events	137,704	00,411	13,343
			Rate of Events per 1,000	0.000	0.000	0.000
			Days at Risk	0.000	0.000	0.000
	2010	20 to 44	Unique Users	9,023	3,787	792
	2010	20 10 11	Days at Risk	388,634	168,966	34,202
			Number of Events	0	0	0.)=0.
			Rate of Events per 1,000	0.000	0.000	0.000
			Days at Risk	0.000		0.000
		45 to 64	Unique Users	11,792	5,218	1,269
		10 10 0 1	Days at Risk	535,211	244,249	59,208
			Number of Events	5	1	(10
			Rate of Events per 1,000	0.009	0.004	0.000
			Days at Risk			
		65+	Unique Users	3,495	1,743	370
			Days at Risk	148,887	74,685	15,596
			Number of Events	3	3	(
			Rate of Events per 1,000	0.020	0.040	0.000
			Days at Risk			
	2011	20 to 44	Unique Users	630	279	51
			Days at Risk	11,661	5,494	880
			Number of Events	0	0	(
			Rate of Events per 1,000	0.000	0.000	0.000
			Days at Risk			
		45 to 64	Unique Users	688	270	59
			Days at Risk	13,715	6,111	1,234
			Number of Events	0	0	. (
			Rate of Events per 1,000	0.000	0.000	0.000
			Days at Risk			
		65+	Unique Users	96	44	11
			Days at Risk	1,905	864	19
			Number of Events	0	0	(
			Rate of Events per 1,000	0.000	0.000	0.000
			Days at Risk			

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).



		•	ear, Age Group, and Cohort <sup>b</sup>		COHORT	
				OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear	AgeGroup		OVERALL	TOBACCO	DEPRESSION
BUPROPION for Any	2006	20 to 44	Unique Users	97,661	12,639	34,11
•	2000	201044	Days at Risk	9,115,039	870,854	3,885,43
Reason			Number of Events	<u>9,113,039</u> 13	3	5,005,45
			Rate of Events per 1,000	0.001	0.003	0.00
			Days at Risk	0.001	0.005	0.00
		45 to 64	Unique Users	93,390	13,511	30,89
		15 10 0 1	Days at Risk	11,650,699	1,143,419	5,015,44
			Number of Events	85	17	4
			Rate of Events per 1,000	0.007	0.015	0.00
			Days at Risk			
		65+	Unique Users	12,940	2,192	4,99
			Days at Risk	1,769,286	177,085	853,69
			Number of Events	38	8	2
			Rate of Events per 1,000	0.021	0.045	0.02
			Days at Risk			
	2007	20 to 44	Unique Users	73,580	9,377	29,59
			Days at Risk	7,280,137	692,654	3,422,58
			Number of Events	11	4	
			Rate of Events per 1,000	0.002	0.006	0.00
			Days at Risk			
		45 to 64	Unique Users	66,080	10,328	25,15
			Days at Risk	8,593,563	891,544	3,999,30
			Number of Events	58	18	
			Rate of Events per 1,000	0.007	0.020	0.00
			Days at Risk			
		65+	Unique Users	10,577	1,966	4,33
			Days at Risk	1,470,347	184,763	775,41
			Number of Events	40	12	
			Rate of Events per 1,000	0.027	0.065	0.02
			Days at Risk			
	2008	20 to 44	Unique Users	66,880	8,790	27,55
			Days at Risk	6,379,215	620,188	3,035,18
			Number of Events	8	3	
			Rate of Events per 1,000	0.001	0.005	0.00
			Days at Risk			
		45 to 64	Unique Users	58,466	9,570	23,7
			Days at Risk	6,980,738	791,719	3,396,32
			Number of Events	40	12	
			Rate of Events per 1,000	0.006	0.015	0.00
			Days at Risk			
		65+	Unique Users	12,100	2,261	5,62
			Days at Risk	1,482,485	185,998	833,84
			Number of Events	38	10	
			Rate of Events per 1,000	0.026	0.054	0.02

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).



	, ,		ear, Age Group, and Cohort <sup>b</sup>		COHORT	
				OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear	AgeGroup			105/1000	221112001011
BUPROPION for Any	2009	20 to 44	Unique Users	67,064	10,097	28,98
Reason	2009	201044	Days at Risk	5,839,438	656,988	2,866,93
Reason			Number of Events	3,833,438	0.00,008	2,000,00
			Rate of Events per 1,000	0.001	0.003	0.00
			Days at Risk	0.001	0.005	0.00
		45 to 64	Unique Users	59,326	11,144	25,512
		45 10 04	Days at Risk	6,235,128	825,629	3,146,73
			Number of Events	43	15	2
			Rate of Events per 1,000	0.007	0.018	0.00
			Days at Risk	0.007	0.010	0.00
		65+	Unique Users	12,919	2,732	6,34
		001	Days at Risk	1,417,246	211,807	811,84
			Number of Events	42	7	2
			Rate of Events per 1,000	0.030	0.033	0.03
			Days at Risk			
	2010	20 to 44	Unique Users	50,899	7,178	22,85
			Days at Risk	3,703,736	432,302	1,819,21
			Number of Events	1	0	,,
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			
		45 to 64	Unique Users	46,563	8,396	20,37
			Days at Risk	3,681,081	531,547	1,779,56
			Number of Events	13	4	
			Rate of Events per 1,000	0.004	0.008	0.004
			Days at Risk			
		65+	Unique Users	10,799	2,086	5,54
			Days at Risk	813,996	130,071	453,55
			Number of Events	19	3	1
			Rate of Events per 1,000	0.023	0.023	0.02
			Days at Risk			
	2011	20 to 44	Unique Users	3,214	555	1,35
			Days at Risk	76,642	16,361	33,99
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			
		45 to 64	Unique Users	2,756	512	1,084
			Days at Risk	66,245	15,522	29,314
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			
		65+	Unique Users	442	93	173
			Days at Risk	13,441	3,602	6,23
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			

<sup>a</sup>Four different exposure groups were examined in this analysis: (1) Varenicline includes individuals who initiated use of varenlicine; (2) Bupropion for Any Reason includes individuals who initiated use of bupropion for any reason; (3) Bupropion for Smoking Cessation: Individuals who initiated use of bupropion for smoking cessation (national drug code listed as "smoking cessation" as defined by First DataBank's Enhanced Therapeutic Classification); (4) Bupropion for Treatment of Depression includes individuals who initiated use of bupropion as an anti-depressant (national drug code listed as "antidepressant" as defined by First DataBank's Enhanced Therapeutic Classification).



Table 10 (Continued). Number of Users, Number of Days at Risk, Number of Cardiovascular Events, Percent of Users with an Event, and Rate of Events per 1,000 Days at Risk by Exposure Group<sup>a</sup>, Year, Age Group, and Cohort<sup>b</sup>

					COHORT	
				OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear	AgeGroup				
3UPROPION for Smoking	2006	20 to 44	Unique Users	2,135	812	1
Cessation			Days at Risk	93,880	35,729	7,1
			Number of Events	93,880	33,729	7,1
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk	0.000	0.000	0.0
		45 to 64	Unique Users	2,264	800	1
		45 10 04	Days at Risk	106,408	36,584	5,3
			Number of Events	3	0	5,5
			Rate of Events per 1,000	0.028	0.000	0.0
			Days at Risk	0.020	0.000	0.0
		65+	Unique Users	320	104	
		031	Days at Risk	15,715	4,964	5
			Number of Events	13,713	1,501	
			Rate of Events per 1,000	0.064	0.201	0.0
			Days at Risk		0.201	0.0
	2007	20 to 44	Unique Users	852	311	1
	2007	2010 11	Days at Risk	39,177	13,770	5,1
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk	0.000	0.000	
		45 to 64	Unique Users	904	328	
		10 10 01	Days at Risk	45,572	17,139	4,3
			Number of Events	0	0	.,,,
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
		65+	Unique Users	183	62	
		001	Days at Risk	9,869	3,111	7
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
	2008	20 to 44	Unique Users	612	199	
			Days at Risk	29,365	9,471	4,4
			Number of Events	0	0	,
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
		45 to 64	Unique Users	633	216	
			Days at Risk	31,371	10,133	4,9
			Number of Events	0	0	·
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
		65+	Unique Users	240	88	
			Days at Risk	12,376	4,254	2,8
			Number of Events	0	0	/-
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			

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					COHORT	
				OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear	AgeGroup				
BUPROPION for Smoking	2009	20 to 44	Unique Users	689	273	10
Cessation	2009	201044	Days at Risk	32,574	12,739	5,21
Cessation			Number of Events	0	0	5,23
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			
		45 to 64	Unique Users	920	407	12
			Days at Risk	47,430	19,927	6,42
			Number of Events	2	2	,
			Rate of Events per 1,000	0.042	0.100	0.00
			Days at Risk			
		65+	Unique Users	333	157	5
			Days at Risk	19,134	8,282	3,26
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			
	2010	20 to 44	Unique Users	385	117	2
			Days at Risk	16,681	4,967	2,12
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			
		45 to 64	Unique Users	505	177	6
			Days at Risk	24,967	8,928	3,57
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
			Days at Risk			
		65+	Unique Users	198	90	
			Days at Risk	9,054	4,033	1,52
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.00
	2011		Days at Risk			
	2011	20 to 44	Unique Users	8	3	
			Days at Risk	187	118	
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	
		45 to 64	Days at Risk Unique Users	25	10	
		45 10 64		443	235	2
			Days at Risk			4
			Number of Events Rate of Events per 1,000	0 0.000	0 0.000	0.00
			1 /	0.000	0.000	0.00
		65+	Days at Risk Unique Users	2	1	
		0.0+	Days at Risk	133	24	
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	
	1		Days at Risk	0.000	0.000	

Table 10 (Continued) Number of Users Number of Days at Risk Number of Cardiovascular Events Percent of Users with an Event, and Pate of

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					COHORT	
Exposure Group	IndexYear	AgeGroup		OVERALL	TOBACCO	DEPRESSION
BUPROPION for Treatment	2006	20 to 44	Unique Users	95,586	11,842	33,97
of Depression			Days at Risk	9,017,223	834,755	3,875,87
			Number of Events	3,017,223	3	3,873,87
			Rate of Events per 1,000	0.001	0.004	0.00
			Days at Risk	01001	0.001	0.00
		45 to 64	Unique Users	91,169	12,720	30,79
			Days at Risk	11,533,162	1,105,255	5,005,15
			Number of Events	82	17	4
			Rate of Events per 1,000	0.007	0.015	0.00
			Days at Risk			
		65+	Unique Users	12,622	2,088	4,98
			Days at Risk	1,750,855	172,057	851,54
			Number of Events	37	7	2
			Rate of Events per 1,000	0.021	0.041	0.02
			Days at Risk			
20	2007	20 to 44	Unique Users	72,878	9,102	29,53
			Days at Risk	7,240,096	680,309	3,416,36
			Number of Events	11	4	
			Rate of Events per 1,000	0.002	0.006	0.00
			Days at Risk			
		45 to 64	Unique Users	65,333	10,046	25,10
			Days at Risk	8,549,226	876,645	3,992,98
			Number of Events	58	18	3
			Rate of Events per 1,000	0.007	0.021	0.00
			Days at Risk			
		65+	Unique Users	10,416	1,912	4,32
			Days at Risk	1,459,782	182,286	773,73
			Number of Events	40	12	1
			Rate of Events per 1,000	0.027	0.066	0.02
	2000	20 + - 44	Days at Risk	CC 405	0.624	27.50
	2008	20 to 44	Unique Users	66,405	8,621	27,50
			Days at Risk	6,349,720	611,357	3,029,92
			Number of Events	0.001	0.005	0.00
			Rate of Events per 1,000	0.001	0.005	0.00
		45 to 64	Days at Risk Unique Users	57,991	9,395	23,71
		45 (0 04	Days at Risk	6,947,160	782,288	3,386,68
			Number of Events	4.4	10	
			Rate of Events per 1,000	41 0.006	0.017	0.00
			Days at Risk	0.000	0.017	0.00
		65+	Unique Users	11,903	2,188	5,58
		0.5 .	Days at Risk	1,467,164	183,003	828,03
			Number of Events	38	185,005	828,03
			Rate of Events per 1,000	0.026	0.055	0.02
	1		Days at Risk	0.020	0.055	5.02

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					COHORT	
				OVERALL	TOBACCO	DEPRESSION
Exposure Group	IndexYear	AgeGroup				
BUPROPION for Treatment	2009	20 to 44	Unique Users	66,517	9,867	28,92
of Depression	2005	201044	Days at Risk	5,810,671	645,925	2,862,58
Depression			Number of Events	3	2	2,002,00
			Rate of Events per 1,000	0.001	0.003	0.00
			Days at Risk			
		45 to 64	Unique Users	58,618	10,822	25,4
			Days at Risk	6,195,612	809,168	3,142,2
			Number of Events	40	12	
			Rate of Events per 1,000	0.006	0.015	0.0
			Days at Risk			
		65+	Unique Users	12,646	2,593	6,2
			Days at Risk	1,398,000	203,888	806,3
			Number of Events	42	7	
			Rate of Events per 1,000	0.030	0.034	0.0
			Days at Risk			
	2010	20 to 44	Unique Users	50,595	7,084	22,8
			Days at Risk	3,689,543	428,376	1,817,0
			Number of Events	1	0	
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
		45 to 64	Unique Users	46,201	8,255	20,32
			Days at Risk	3,660,651	524,005	1,775,54
			Number of Events	13	4	
			Rate of Events per 1,000	0.004	0.008	0.0
			Days at Risk			
		65+	Unique Users	10,659	2,021	5,5
			Days at Risk	806,676	127,092	451,9
			Number of Events	19	3	
			Rate of Events per 1,000	0.024	0.024	0.0
			Days at Risk			
	2011	20 to 44	Unique Users	3,210	552	1,3
			Days at Risk	76,532	16,243	34,0
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
		45 to 64	Unique Users	2,742	508	1,0
			Days at Risk	66,050	15,450	29,3
			Number of Events	0	0	
			Rate of Events per 1,000	0.000	0.000	0.0
			Days at Risk			
		65+	Unique Users	441	92	1
			Days at Risk	13,360	3,578	6,2
			Number of Events	0	0	
			Rate of Events per 1,000 Days at Risk	0.000	0.000	0.0

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