

**Table RSE-2.5.0 - ED mentions for central nervous system agents by drug category: RSE estimates for the coterminous U.S. by year**

Drug name <sup>1,2,3</sup>	Total 1994	Total 1995	Total 1996	Total 1997	Total 1998	Total 1999	Total 2000	p-value <sup>4</sup> 1994, 2000	p-value <sup>4</sup> 1998, 2000	p-value <sup>4</sup> 1999, 2000
Analgesics .....	5.6	5.1	5.8	6.2	6.0	7.3	7.5	0.001	0.001	0.000
Antimigraine agents .....	31.8	24.5	26.4	28.6	34.5	31.8	34.8	0.855	0.985	0.552
APAP/dichloralphenazone/isometheptene .....	37.6	33.7	32.8	33.5	38.0	35.6	42.2	0.833	0.782	0.475
belladonna/caffeine/ergotamine/pentobarbital .....										
caffeine-ergotamine .....	21.0	63.9	26.6	27.3	23.0	10.7	57.1	0.000	0.559	0.295
dihydroergotamine .....	0.0	0.0	0.0	80.8	0.0	102.6	0.0	1.000	1.000	0.330
ergotamine .....	20.3	94.1	13.1	93.3	65.7	40.9	10.1	-0.001	0.362	0.029
isometheptene mucate .....	0.0	92.8	0.0	0.0	0.0	0.0	0.0	1.000	1.000	1.000
methysergide maleate .....	0.0	96.1	58.5	0.0	30.2	21.2	0.0	1.000	-0.001	0.000
naratriptan .....										
rizatriptan .....										
sumatriptan .....	27.7	35.1	59.0	60.0	23.8	20.1	74.9	0.197	0.306	0.327
zolmitriptan .....	0.0	0.0	0.0	0.0	0.0	19.2	32.9	0.002	0.002	0.102
antimigraine agents-NOS .....	83.4	5.6	63.0	17.7	41.4	88.1	17.8	0.260	0.111	0.296
Cox-2 inhibitors .....	0.0	0.0	0.0	0.0	0.0	88.3	26.0	0.000	0.000	0.000
celecoxib .....	0.0	0.0	0.0	0.0	0.0	88.3	26.0	0.000	0.000	0.000
rofecoxib .....										
cox-2 inhibitors-NOS .....										
Narcotic analgesics .....	10.0	8.8	8.0	7.8	8.6	11.7	12.0	0.000	0.002	0.156
alfentanil .....										
anileridine .....	0.0	23.9	0.0	0.0	0.0	26.8	99.3	0.314	0.314	0.329
buprenorphine .....	42.1	33.9	7.1	96.3	0.0	60.3	26.6	0.003	0.000	0.283
butorphanol .....	20.1	69.1	43.9	59.2	38.0	71.2	88.0	0.414	0.336	0.691
codeine .....	15.6	16.4	20.1	17.6	18.2	24.1	19.6	-0.007	0.353	0.391
dezocine .....	55.3	0.0	45.3	0.0	0.0	85.2	0.0	0.071	1.000	0.241
dihydrocodeine .....	144.5	0.0	0.0	55.4	5.5	52.5	70.6	0.827	0.479	1.000
dihydromorphinone .....										
fentanyl .....	19.3	27.3	13.6	45.8	38.8	48.7	34.3	0.006	0.156	0.186
hydrocodone .....	24.2	22.3	21.2	18.5	21.4	18.3	20.9	0.047	0.565	0.726
hydromorphone .....	37.4	25.3	28.0	39.2	41.7	37.3	50.4	0.286	0.139	0.295
hydroxy-N-methylmorphinan .....	0.0	27.1	0.0	0.0	0.0	0.0	70.5	0.156	0.156	0.156
levomethadyl acetate .....	42.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.017	1.000	1.000
levorphanol .....	74.9	69.1	0.0	0.0	12.9	0.0	31.8	1.000	0.019	0.002
meperidine .....	22.4	23.6	22.7	25.2	27.7	30.0	24.4	0.919	0.312	0.243
methadone .....	11.7	14.9	11.7	11.8	10.8	14.2	15.7	0.000	0.004	0.008
morphine .....	32.6	19.8	21.0	19.8	22.1	17.8	18.0	0.000	0.358	0.596
nalbuphine .....	37.7	48.5	20.4	29.3	87.9	45.5	67.9	0.175	0.491	0.241
noscipine .....	0.0	0.0	0.0	0.0	0.0	37.6	0.0	1.000	1.000	-0.008
opium .....	51.8	65.6	15.1	14.6	16.3	58.9	48.0	0.393	0.075	0.750
oxycodone .....	40.2	53.7	13.8	41.6	27.6	27.7	30.8	0.002	0.006	0.021
oxymorphone .....	0.0	0.0	0.0	0.0	0.0	0.0	70.6	0.156	0.156	0.156
papaveretum .....	0.0	0.0	0.0	0.0	6.5	0.0	0.0	1.000	0.000	1.000
pentazocine .....	17.0	27.9	0.0	0.0	0.0	41.6	65.1	0.629	0.125	1.000
phenacetin .....	71.1	0.0	0.0	124.7	42.5	0.0	0.0	0.159	-0.019	1.000
propoxyphene .....	21.6	23.2	22.9	19.9	20.5	31.8	32.4	-0.018	0.078	0.478
remifentanil .....										
sufentanil .....	0.0	59.7	0.0	0.0	38.1	0.0	0.0	1.000	-0.009	1.000
narcotic analgesics-NOS .....	15.1	13.1	12.2	10.7	12.1	15.9	14.1	0.000	0.041	0.998

ED Trends from DAWN

**Table RSE-2.5.0 - ED mentions for central nervous system agents by drug category: RSE estimates for the coterminous U.S. by year (continued)**

Drug name <sup>1,2,3</sup>	Total 1994	Total 1995	Total 1996	Total 1997	Total 1998	Total 1999	Total 2000	p-value <sup>4</sup> 1994, 2000	p-value <sup>4</sup> 1998, 2000	p-value <sup>4</sup> 1999, 2000
Narcotic analgesic combinations .....	9.8	8.5	10.4	10.5	10.4	10.6	13.4	0.008	0.010	0.005
acetaminophen-codeine .....	12.5	11.0	13.1	13.5	14.7	16.6	15.2	-0.001	-0.029	0.994
acetaminophen-hydrocodone .....	17.3	15.3	17.0	14.9	15.3	14.9	17.6	0.000	0.003	0.009
acetaminophen-oxycodone .....	17.8	15.5	16.3	17.8	18.5	17.4	33.4	0.107	0.107	0.184
acetaminophen-pentazocine .....	61.1	38.6	37.1	95.8	71.3	94.6	105.9	0.381	0.372	0.850
acetaminophen-propoxyphene .....	11.4	12.4	12.3	12.2	13.9	13.2	13.0	0.607	0.789	0.892
acetaminophen/meperidine .....	0.0	96.8	0.0	0.0	0.0	110.7	66.9	0.135	0.135	0.201
APAP/ASA/caffeine/phenacetin .....										
APAP/butalbital/caffeine/codeine .....	67.7	24.6	60.4	84.0	54.1	53.1	38.1	0.174	0.052	0.018
APAP/caffeine/dihydrocodeine .....	0.0	0.0	4.1	0.0	63.6	0.0	0.0	1.000	0.116	1.000
ASA/butalbital/caffeine/codeine .....	48.8	35.9	44.5	55.7	20.2	47.5	47.4	0.731	0.061	0.945
ASA/caffeine/dihydrocodeine .....	50.7	94.4	0.0	61.6	0.0	0.0	14.0	0.140	0.000	0.000
ASA/caffeine/propoxyphene .....	0.0	61.8	40.8	0.0	74.0	0.0	61.0	0.101	0.321	0.101
aspirin-codeine .....	25.7	22.8	31.3	26.4	83.5	15.4	101.9	0.458	1.000	0.380
aspirin-hydrocodone .....	10.9	0.0	0.0	0.0	31.8	0.0	0.0	0.000	-0.002	1.000
aspirin-oxycodone .....	31.7	31.9	34.4	29.8	41.0	42.8	33.8	0.586	0.757	0.027
aspirin-pentazocine .....	50.2	46.9	45.0	57.8	54.5	51.8	74.0	0.863	0.932	0.844
aspirin/caffeine/codeine .....										
aspirin/caffeine/codeine/phenacetin .....	88.5	72.5	92.0	33.7	52.3	0.0	0.0	0.258	0.056	1.000
aspirin/caffeine/codeine/phenacetin/phenolphthalein .....	142.2	0.0	0.0	0.0	0.0	0.0	0.0	0.482	1.000	1.000
aspirin/caffeine/phenacetin/pseudoephedrine .....	0.0	0.0	0.0	0.0	0.0	0.0	39.0	0.010	0.010	0.010
aspirin/ethoheptazine .....	0.0	0.0	0.0	0.0	86.9	0.0	0.0	1.000	0.250	1.000
belladonna-opium .....	0.0	0.0	73.1	0.0	0.0	0.0	0.0	1.000	1.000	1.000
cocaine (Schedule I substance)/morphine .....	13.8	0.0	0.0	108.7	9.6	36.1	37.3	0.045	0.045	1.000
codeine/papaverine .....	0.0	0.0	0.0	69.0	0.0	11.2	0.0	1.000	1.000	0.000
codeine/phenacetin .....	0.0	0.0	9.9	61.6	0.0	0.0	0.0	1.000	1.000	1.000
codeine/salicylates .....										
droperidol-fentanyl .....										
hydrocodone-ibuprofen .....	0.0	0.0	0.0	0.0	36.0	55.4	41.8	0.017	0.024	0.227
kaolin-pectin/paregoric .....	34.2	0.0	0.0	49.7	0.0	0.0	0.0	-0.003	1.000	1.000
meperidine-promethazine .....	61.4	33.4	80.9	63.8	64.6	43.4	51.1	0.307	0.478	0.987
naloxone-pentazocine .....	0.0	137.7	0.0	0.0	0.0	0.0	0.0	1.000	1.000	1.000
codeine combination-NOS .....	4.7	45.6	89.1	97.3	95.0	0.0	0.0	0.000	0.293	1.000
narcotic analgesic combinations-NOS .....	0.0	0.0	0.0	0.0	10.9	23.9	35.2	0.005	0.010	0.042
Nonsteroidal anti-inflammatory agents .....	7.6	6.9	8.1	8.2	8.8	8.6	9.9	-0.033	0.582	0.022
bromfenac .....	0.0	0.0	0.0	0.0	28.4	0.0	106.0	0.346	0.469	0.346
diclofenac .....	41.4	40.8	33.5	24.4	27.2	40.6	51.5	0.692	0.111	0.310
diclofenac-misoprostol .....										
etodolac .....	28.4	27.2	35.6	36.9	37.3	68.7	58.5	-0.004	0.351	0.479
fenoprofen .....	84.3	86.9	0.0	12.3	102.9	42.0	0.0	0.236	0.331	-0.017
flurbiprofen .....	39.5	32.3	53.2	34.3	25.2	22.9	74.3	-0.013	0.598	0.801
ibuprofen .....	8.2	7.4	9.0	8.9	9.7	9.5	10.7	0.410	0.561	0.006
indomethacin .....	41.0	33.9	43.4	35.9	59.6	44.5	53.8	0.174	0.628	0.826
ketoprofen .....	35.4	49.6	26.6	32.9	33.0	56.2	68.9	-0.038	-0.009	0.472
ketorolac .....	19.8	26.0	37.1	36.8	41.6	47.0	54.9	0.000	0.443	0.551
meclofenamate .....	18.4	35.5	32.3	0.0	57.9	0.0	101.2	0.419	0.346	0.323
mefenamic acid .....	29.2	35.8	37.9	93.1	0.0	59.1	34.4	0.140	0.004	0.348

ED Trends from DAWN

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Drug name <sup>1,2,3</sup>	Total 1994	Total 1995	Total 1996	Total 1997	Total 1998	Total 1999	Total 2000	p-value <sup>4</sup> 1994, 2000	p-value <sup>4</sup> 1998, 2000	p-value <sup>4</sup> 1999, 2000
meloxicam .....										
nabumetone .....	32.7	31.2	42.7	33.4	32.7	28.7	43.7	0.285	0.227	-0.027
naproxen .....	12.3	12.1	11.7	10.9	9.8	12.1	13.8	0.261	0.537	0.520
oxaprozin .....	48.2	41.9	26.8	38.3	34.7	40.0	49.8	0.800	0.184	0.559
phenylbutazone .....	50.0	56.5	90.6	63.7	0.0	33.5	47.5	0.684	0.035	1.000
piroxicam .....	49.4	62.6	52.0	88.2	90.1	56.1	22.7	0.053	0.315	0.086
sulindac .....	18.4	83.0	19.7	59.0	21.9	86.1	20.8	0.093	0.016	0.343
tolmetin .....	51.2	28.6	39.8	84.2	99.9	75.1	0.0	0.051	0.317	0.183
nonsteroidal anti-inflammatory agents-NOS .....	47.4	66.0	58.9	52.5	55.7	67.2	75.3	0.174	0.320	0.976
Salicylates .....	8.0	8.1	11.4	10.7	9.7	11.7	10.3	0.000	0.349	0.106
Al hydroxide/ASA/Ca carbonate/Mg hydroxide .....	80.0	52.8	27.7	33.1	91.0	103.7	56.4	0.246	0.315	0.383
ASA/citric acid/Na bicarb .....	82.8	87.5	85.1	34.8	42.3	93.5	65.3	0.416	0.164	0.448
aspirin .....	8.7	8.7	13.0	12.1	10.1	12.3	10.9	-0.004	0.565	0.078
choline salicylate .....	0.0	0.0	0.0	0.0	100.0	0.0	0.0	1.000	0.317	1.000
choline salicylate-magnesium salicylate .....	35.9	15.2	62.2	21.6	100.2	80.9	0.0	-0.005	0.318	0.216
diflunisal .....	50.2	54.8	31.1	30.5	99.3	22.2	39.5	0.059	0.389	0.560
magnesium salicylate .....	55.7	35.4	36.5	47.9	73.2	17.4	68.5	0.788	0.609	0.239
salsalate .....	32.6	36.3	30.7	95.2	29.9	57.8	48.5	0.463	0.776	0.841
sodium salicylate .....										
sodium thiosalicylate .....										
salicylates-NOS .....	21.3	28.2	21.0	16.8	27.6	19.1	17.9	-0.029	0.208	0.643
Analgesic combinations .....	9.4	9.2	9.5	10.4	10.1	13.0	11.4	0.037	0.075	0.002
acetaminophen-butalbital .....	45.6	28.9	71.3	49.8	88.3	109.8	40.0	-0.034	0.345	0.467
acetaminophen-caffeine .....	39.3	68.8	26.2	0.0	44.4	0.0	0.0	-0.011	-0.024	1.000
acetaminophen-diphenhydramine .....	20.6	16.5	13.9	14.3	15.0	18.3	14.3	0.000	0.146	0.036
acetaminophen-pamabrom .....										
acetaminophen-phenyltoloxamine .....	79.5	62.3	70.6	74.7	74.3	68.3	18.4	0.274	0.252	0.182
acetaminophen-salicylamide .....	0.0	0.0	93.6	0.0	0.0	0.0	72.7	0.169	0.169	0.169
acetaminophen/ascorbic acid/chlorpheniramine/phenylephrine .....										
acetaminophen/aspirin .....										
acetaminophen/aspirin/pyrilamine .....										
acetaminophen/atropine/caffeine/ephedrine .....	0.0	0.0	0.0	8.3	0.0	0.0	0.0	1.000	1.000	1.000
APAP/Al hydroxide/ASA/caffeine/Mg hydroxide .....	31.6	22.9	91.4	19.0	62.7	63.2	0.0	-0.002	0.111	0.113
APAP/ASA/caffeine .....	16.8	17.1	18.0	18.9	18.0	18.0	17.1	0.169	0.045	0.129
APAP/ASA/caffeine/salicylamide .....	97.8	0.0	62.3	69.2	0.0	0.0	0.0	0.306	1.000	1.000
APAP/butalbital/caffeine .....	15.6	15.4	16.9	20.0	18.0	18.9	24.3	0.573	0.913	0.119
APAP/caffeine/pyrilamine .....	98.5	9.6	0.0	0.0	0.0	0.0	0.0	0.310	1.000	1.000
APAP/pamabrom/pyridoxine .....										
APAP/pamabrom/pyrilamine .....	49.6	32.8	36.5	44.0	49.6	51.1	50.5	0.931	0.987	0.529
ASA/butalbital/caffeine .....	19.8	15.7	18.1	16.2	18.6	23.5	21.9	0.613	0.826	0.039
ASA/caffeine/salicylamide .....	62.1	84.6	51.1	28.0	100.7	0.0	22.2	0.120	0.368	0.000
aspirin-butalbital .....	68.2	97.8	0.0	0.0	0.0	0.0	0.0	0.143	1.000	1.000
aspirin-caffeine .....	36.4	24.6	13.8	48.1	55.9	72.0	26.0	-0.010	0.136	0.324
aspirin-diphenhydramine .....										
aspirin-phenyltoloxamine .....	85.7	97.2	34.7	73.4	55.9	0.0	39.0	0.442	0.399	0.010
aspirin/salsalate .....	0.0	0.0	49.7	0.0	0.0	0.0	0.0	1.000	1.000	1.000
diphenhydramine-magnesium salicylate .....										
magnesium salicylate-phenyltoloxamine .....										

ED Trends from DAWN





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ED Trends from DAWN

Drug name <sup>1,2,3</sup>	Total 1994	Total 1995	Total 1996	Total 1997	Total 1998	Total 1999	Total 2000	p-value <sup>4</sup> 1994, 2000	p-value <sup>4</sup> 1998, 2000	p-value <sup>4</sup> 1999, 2000
General anesthetics .....	16.4	38.9	50.6	43.3	25.2	111.9	98.4	0.324	0.385	0.819
droperidol .....	0.0	47.5	57.1	43.3	31.5	0.0	42.9	0.020	-0.034	0.020
etomidate .....										
methohexital .....										
propofol .....	32.1	0.0	61.6	0.0	101.9	111.9	102.8	0.338	0.338	0.845
thiamylal sodium .....										
thiopental .....	6.4	61.7	0.0	0.0	33.7	0.0	0.0	0.000	-0.003	1.000
general anesthetics-NOS .....										
Muscle relaxants .....	11.7	10.2	9.1	10.1	11.6	11.8	11.9	0.010	0.112	0.037
acetaminophen/chlorzoxazone .....	68.5	29.0	60.0	55.9	3.9	134.1	9.4	0.151	1.000	1.000
acetaminophen/orphenadrine .....	0.0	0.0	34.4	0.0	0.0	38.5	0.0	1.000	1.000	-0.009
ASA/caffeine/orphenadrine .....	71.3	28.7	63.1	37.5	95.8	69.0	73.8	0.191	0.318	0.636
ASA/carisoprodol/codeine .....	67.0	85.2	0.0	48.1	53.4	0.0	0.0	0.136	0.061	1.000
aspirin-carisoprodol .....	68.5	55.7	52.0	64.7	37.7	0.0	88.4	0.160	1.000	0.258
aspirin-meprobamate .....	42.1	52.6	6.6	59.5	0.0	67.3	0.0	-0.017	1.000	0.138
aspirin-methocarbamol .....	61.6	0.0	93.7	83.1	7.2	0.0	0.0	0.105	0.000	1.000
atracurium .....										
baclofen .....	57.0	51.1	66.5	19.6	44.7	36.6	54.4	0.473	0.399	0.341
benzocetamine .....	0.0	0.0	0.0	0.0	0.0	0.0	40.2	0.013	0.013	0.013
botulinum toxin type A .....										
carisoprodol .....	15.0	14.1	10.9	13.7	14.0	15.0	16.2	0.024	0.340	0.501
chlorphenesin .....	0.0	0.0	70.2	0.0	0.0	0.0	0.0	1.000	1.000	1.000
chlorzoxazone .....	29.7	35.9	34.9	53.4	18.7	55.9	55.2	-0.048	0.118	0.885
cisatracurium .....										
cyclobenzaprine .....	13.9	15.6	14.1	12.7	14.3	15.3	14.8	0.162	0.091	0.039
dantrolene .....	3.1	17.1	0.0	35.6	0.0	0.0	2.6	1.000	0.000	0.000
doxacurium .....										
mephenesin .....	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.000	1.000	1.000
metaxalone .....	14.1	71.1	45.3	43.9	45.2	39.8	35.7	0.007	0.186	0.491
methocarbamol .....	23.9	21.9	26.4	38.6	40.6	24.0	36.7	0.154	0.237	0.914
methoxyethoxyethylaminomethyl-1-4-benzodioxan .....	4.4	61.7	22.7	0.0	186.7	37.8	0.0	0.000	0.592	-0.008
metocurine .....										
mivacurium .....										
orphenadrine .....	11.1	47.7	40.1	35.4	40.7	48.0	57.7	0.311	0.470	0.735
pancuronium .....	0.0	0.0	0.0	12.3	0.0	0.0	0.0	1.000	1.000	1.000
pipecuronium .....										
rapacuronium .....										
rocuronium .....										
succinylcholine .....	32.9	0.0	0.0	117.6	0.0	0.0	0.0	-0.002	1.000	1.000
tizanidine .....	0.0	0.0	0.0	0.0	0.0	99.5	45.0	0.026	0.026	0.022
tubocurarine .....										
vecuronium .....	0.0	0.0	0.0	0.0	0.0	0.0	103.2	0.333	0.333	0.333
muscle relaxants-NOS .....	33.0	31.9	34.4	29.9	34.2	34.6	33.2	0.540	0.970	0.826
Miscellaneous CNS agents .....	0.0	0.0	0.0	44.2	0.0	98.3	68.5	0.144	0.144	0.647
cevimeline .....										
donepezil .....	0.0	0.0	0.0	0.0	0.0	73.3	89.0	0.261	0.261	0.303
ergoloid mesylates .....	0.0	0.0	0.0	44.2	0.0	0.0	0.0	1.000	1.000	1.000
laudanosine .....	0.0	0.0	0.0	0.0	0.0	109.8	105.3	0.343	0.343	0.783

**Table RSE-2.5.0 - ED mentions for central nervous system agents by drug category: RSE estimates for the coterminous U.S. by year (continued)**

Drug name <sup>1,2,3</sup>		Total 1994	Total 1995	Total 1996	Total 1997	Total 1998	Total 1999	Total 2000	<i>p</i> -value <sup>4</sup> 1994, 2000	<i>p</i> -value <sup>4</sup> 1998, 2000	<i>p</i> -value <sup>4</sup> 1999, 2000
pilocarpine .....											
rivastigmine .....											
tacrine .....											

<sup>1</sup> This classification of drugs is derived from the Multum Lexicon, Copyright © 2001, Multum Information Services, Inc. The classification has been modified to meet DAWN's unique requirements (2001). The Multum Licensing Agreement governing use of the Lexicon is provided in an appendix to this report and can be found on the Internet at <http://www.multum.com>.

<sup>2</sup> Cocaine (Schedule I substance) / morphine is a Brompton's mixture. All other mentions of cocaine are classified under Major Substances of Abuse.

<sup>3</sup> Anesthetic gasses are classified under Inhalants.

<sup>4</sup> *P*-values correspond to increases and decreases between estimates for the periods noted. For the purposes of this report, *p*-values less than 0.05 are considered to be statistically significant.

NOTE: These estimates are based on a representative sample of non-Federal, short-stay hospitals with 24-hour emergency departments in the coterminous U.S. Drugs are classified to the degree of specificity recorded in the DAWN case reports.

CNS = central nervous system, ED = emergency department, NOS = not otherwise specified, NTA = not tabulated above, RSE = relative standard error.

SOURCE: Office of Applied Studies, SAMHSA, Drug Abuse Warning Network, 2000 (09/2001 update).