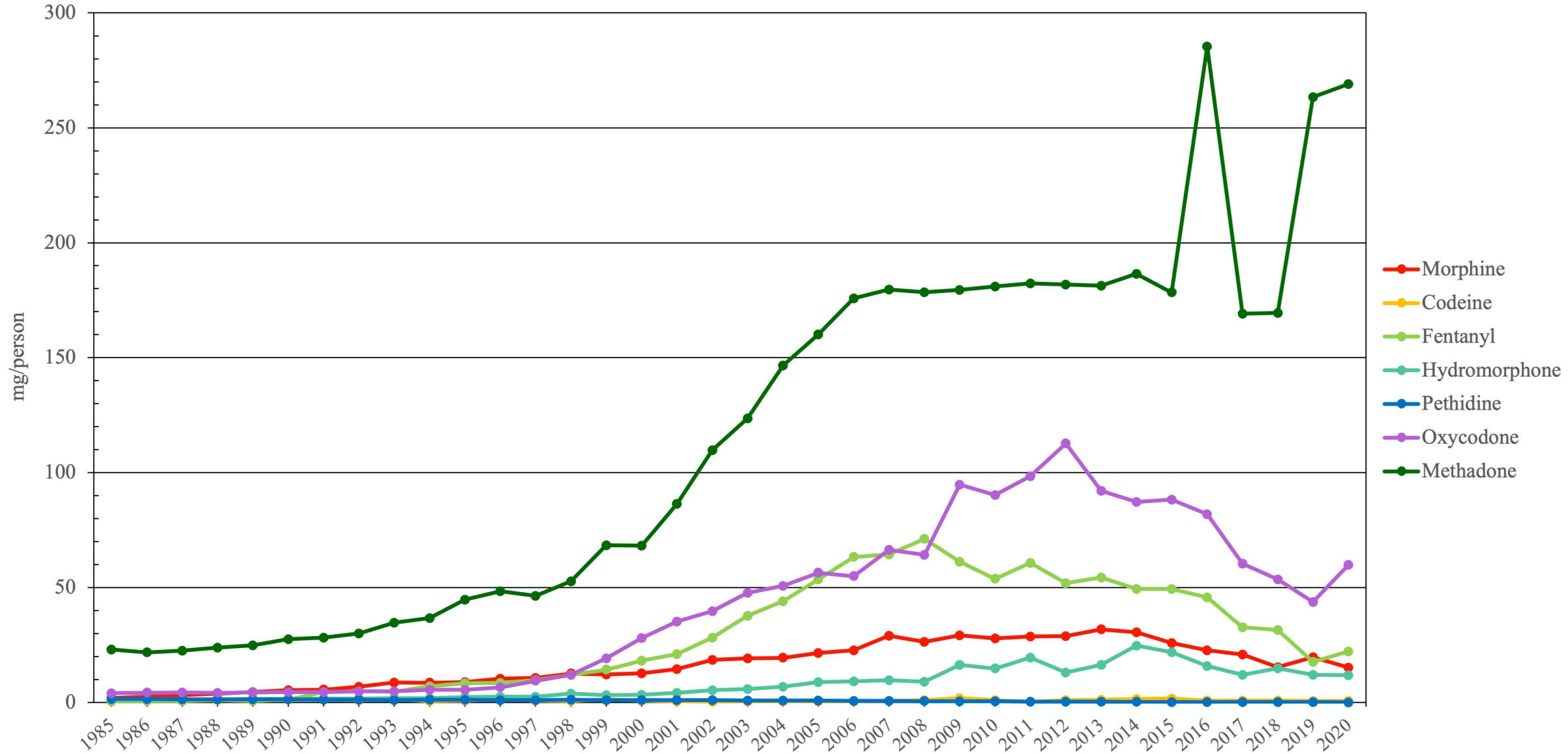


AMRO/PAHO Region

Essential Controlled Medicines Consumption in Morphine Equivalence (mg/person), 1985 - 2020



AMRO/PAHO Essential Controlled Medicines Consumption

Morphine Equivalence (ME), (mg/person)

Year	Morphine	Codeine	Fentanyl	Hydromorphone	Pethidine	Oxycodone	Methadone
1985	1.9016	1.4176	0.5543	1.2513	1.5599	4.0369	23.0491
1986	2.5028	1.1580	0.6271	1.3912	1.4986	4.2348	21.7890
1987	3.1489	1.3173	0.6123	1.2852	1.3678	4.2611	22.5317
1988	3.8309	1.3240	0.9440	1.3442	1.3874	4.1853	23.8197
1989	4.5206	1.2146	0.6556	1.4349	1.3093	4.3650	24.8881
1990	5.3008	1.0992	1.2380	1.4821	1.2519	4.5511	27.5399
1991	5.5771	1.3336	4.4327	1.6773	1.2256	4.4852	28.1635
1992	6.7924	0.9956	4.8541	1.7159	1.1095	4.7893	29.9807
1993	8.6638	1.3538	4.7525	1.8819	1.0530	4.8698	34.6991
1994	8.5891	0.6389	7.0227	1.8963	1.0886	5.4707	36.6469
1995	8.8748	0.7517	8.3949	2.2740	1.1269	5.4234	44.7335
1996	10.3771	1.2575	8.4691	2.4344	1.0432	6.5857	48.3184
1997	10.6211	0.7734	9.6657	2.5509	1.0551	9.4046	46.4077
1998	12.5754	0.6313	11.9826	3.8940	1.0994	12.0563	52.6520
1999	12.1478	1.3334	14.2514	3.1275	1.0416	19.1641	68.4306
2000	12.6100	0.8502	18.1208	3.3054	1.0320	28.0527	68.2790
2001	14.5708	0.5439	21.0615	4.1561	1.0054	35.1351	86.4573
2002	18.5568	0.2914	28.1295	5.2961	0.9840	39.7260	109.7958
2003	19.1803	0.4214	37.6371	5.8245	0.8297	47.7680	123.6299
2004	19.4317	0.4512	44.0388	6.8443	0.8887	50.6288	146.5821
2005	21.5287	0.5617	53.4950	8.7981	0.7747	56.4560	160.0931
2006	22.6257	0.4371	63.2928	9.1267	0.6370	54.9484	175.7487
2007	29.0642	0.5872	64.3441	9.7336	0.5903	66.4434	179.6145
2008	26.2887	0.9544	71.1973	9.0585	0.5781	64.1925	178.4078
2009	29.1862	1.8229	61.1634	16.2981	0.5182	94.6717	179.4218
2010	27.9067	0.9464	53.7888	14.7601	0.4777	90.1829	181.0067
2011	28.6440	0.2913	60.7586	19.5561	0.3191	98.4234	182.2429
2012	28.8231	0.9885	51.8158	13.0463	0.2868	112.6923	181.7701
2013	31.8070	1.1893	54.3755	16.3808	0.2554	92.1151	181.3072
2014	30.4688	1.5494	49.4074	24.6705	0.2494	87.2810	186.4937
2015	25.8690	1.6660	49.4242	21.7925	0.1873	88.1765	178.4041
2016	22.6666	0.8964	45.6563	15.8454	0.1566	81.8842	285.4194
2017	20.8079	0.8045	32.6398	12.0297	0.1343	60.3639	169.1078
2018	15.4069	0.8752	31.5377	14.8767	0.1476	53.6004	169.4009
2019	19.6323	0.6185	17.7433	11.9595	0.0926	43.7246	263.4176
2020	15.2230	0.6525	22.1804	11.8559	0.0421	59.9006	269.1149

Data sources:

Consumption Data – International Narcotics Control Board
 Population – The World Bank, United Nations Statistics Division
 ME Conversion Factors – WHOCC Centre for Drug Statistics Methodology

Walther Global Palliative Care
 & Supportive Oncology
 Indiana University
 Melvin and Bren Simon
 Comprehensive Cancer Center