

**SUPPLEMENTARY FIGURES AND TABLES**

**Supplemental Table S1: Perceived difficulty/ease of accessing substances among youth aged 16-19, by country, 2017-2021, weighted % (unweighted n)**

<b>Substance</b>	<b>Response</b>	<b>2017-Aug</b>	<b>2018-Aug</b>	<b>2019-Aug</b>	<b>2020-Feb</b>	<b>2020-Aug</b>	<b>2021-Feb</b>	<b>2021-Aug</b>	
<b>CANADA</b>		n=29,719	n=4038	n=3845	n=4135	n=4217	n=4269	n=4611	n=4604
<b>Cigarettes</b>	Very difficult	10.0 (396)	11.9 (419)	14.8 (587)	14.0 (550)	13.3 (575)	13.0 (591)	13.7 (613)	
	Fairly difficult	11.0 (430)	12.1 (424)	14.2 (572)	15.9 (611)	15.0 (656)	14.8 (692)	15.5 (694)	
	Fairly easy	28.6 (1156)	26.5 (974)	29.1 (1180)	27.7 (1164)	29.1 (1247)	29.8 (1338)	28.0 (1282)	
	Very easy	44.3 (1810)	42.0 (1760)	33.6 (1464)	34.3 (1563)	33.5 (1392)	31.9 (1496)	33.2 (1577)	
	Don't know	5.4 (219)	6.5 (234)	7.5 (296)	7.2 (289)	8.3 (364)	9.5 (449)	8.8 (398)	
	Refused	0.7 (27)	0.9 (34)	0.9 (36)	0.9 (40)	0.8 (35)	1.0 (45)	0.7 (40)	
<b>E-cigarettes</b>	Very difficult	7.2 (286)	8.2 (292)	9.9 (386)	8.9 (343)	9.3 (401)	9.3 (421)	10.9 (473)	
	Fairly difficult	12.0 (494)	11.4 (432)	9.4 (398)	11.2 (454)	11.9 (521)	11.7 (537)	12.9 (568)	
	Fairly easy	31.4 (1277)	29.6 (1113)	33.0 (1348)	29.7 (1248)	32.2 (1374)	31.9 (1466)	29.6 (1367)	
	Very easy	40.9 (1636)	41.0 (1648)	39.5 (1677)	42.5 (1848)	37.1 (1557)	36.6 (1713)	36.3 (1728)	
	Don't know	7.9 (322)	9.0 (325)	7.6 (298)	7.0 (288)	8.7 (383)	9.4 (431)	9.5 (423)	
	Refused	0.5 (23)	0.9 (35)	0.7 (28)	0.7 (36)	0.7 (33)	1.0 (43)	0.8 (45)	
<b>Alcohol</b>	Very difficult	6.3 (234)	7.9 (284)	9.6 (378)	9.1 (357)	8.9 (377)	8.9 (385)	10.1 (431)	
	Fairly difficult	9.7 (360)	11.2 (402)	12.6 (508)	12.2 (502)	12.4 (531)	11.2 (497)	11.0 (484)	
	Fairly easy	27.7 (1081)	25.7 (959)	28.1 (1161)	26.7 (1113)	28.8 (1243)	28.1 (1263)	26.9 (1217)	
	Very easy	52.2 (2201)	49.1 (1977)	43.4 (1837)	46.1 (2002)	43.5 (1840)	44.8 (2155)	45.3 (2174)	
	Don't know	3.5 (137)	5.4 (196)	5.7 (226)	5.2 (209)	5.6 (246)	6.1 (274)	5.9 (260)	
	Refused	0.6 (25)	0.7 (27)	0.7 (25)	0.7 (34)	0.7 (32)	0.9 (37)	0.7 (38)	
<b>Cannabis</b>	Very difficult	15.6 (617)	16.7 (596)	16.8 (648)	16.6 (601)	17.1 (731)	16.6 (750)	17.7 (791)	
	Fairly difficult	19.7 (788)	20.6 (766)	17.6 (672)	16.1 (636)	16.6 (700)	17.4 (791)	18.8 (845)	
	Fairly easy	29.5 (1232)	27.1 (1061)	27.3 (1149)	26.5 (1126)	29.1 (1242)	26.9 (1241)	25.8 (1210)	
	Very easy	24.3 (967)	24.0 (997)	28.3 (1268)	31.4 (1467)	26.2 (1125)	27.5 (1287)	1241 (1262)	
	Don't know	10.1 (406)	10.5 (389)	9.1 (358)	8.7 (347)	10.2 (435)	10.8 (497)	9.7 (445)	
	Refused	0.7 (28)	1.0 (36)	0.9 (40)	0.9 (40)	0.8 (36)	0.9 (45)	1.0 (51)	
<b>Painkillers/opiates</b>	Very difficult	29.0 (1159)	32.5 (1212)	31.3 (1253)	31.3 (1262)	32.9 (1412)	33.2 (1544)	34.4 (1579)	
	Fairly difficult	22.1 (914)	23.0 (885)	21.2 (892)	21.6 (910)	20.0 (843)	19.7 (888)	20.6 (947)	
	Fairly easy	19.0 (777)	16.0 (621)	17.8 (743)	16.0 (705)	14.6 (628)	14.1 (656)	14.3 (653)	
	Very easy	10.3 (421)	8.7 (368)	9.0 (394)	10.2 (458)	7.8 (336)	8.5 (382)	9.1 (413)	
	Don't know	18.6 (725)	18.5 (706)	19.4 (800)	19.4 (816)	23.5 (1002)	23.3 (1074)	20.3 (943)	
	Refused	1.1 (42)	1.3 (53)	1.2 (53)	1.3 (66)	1.2 (48)	1.3 (67)	1.3 (69)	
<b>Ecstasy/MDMA</b>	Very difficult	36.4 (1523)	38.4 (1402)	38.6 (1546)	36.8 (1453)	36.6 (1598)	37.5 (1738)	39.7 (1795)	
	Fairly difficult	20.1 (841)	20.3 (802)	19.6 (814)	19.5 (874)	19.4 (799)	18.3 (843)	19.2 (905)	
	Fairly easy	13.2 (501)	11.6 (471)	11.3 (499)	11.4 (519)	10.9 (461)	11.0 (502)	10.1 (466)	
	Very easy	6.5 (229)	6.0 (263)	6.0 (265)	7.8 (341)	5.3 (226)	6.0 (264)	5.6 (249)	
	Don't know	22.7 (896)	21.8 (830)	23.1 (953)	23.1 (960)	26.6 (1134)	25.8 (1191)	24.0 (1113)	
	Refused	1.2 (48)	1.8 (77)	1.3 (58)	1.4 (70)	1.2 (51)	1.5 (73)	1.4 (76)	
<b>Hallucinogens</b>	Very difficult	38.9 (1612)	40.9 (1484)	40.6 (1612)	37.6 (1480)	37.5 (1617)	37.0 (1771)	40.9 (1838)	
	Fairly difficult	19.0 (789)	19.6 (779)	18.7 (789)	18.5 (809)	19.4 (809)	16.1 (804)	18.4 (859)	
	Fairly easy	12.8 (504)	11.0 (452)	11.5 (505)	12.5 (605)	10.8 (474)	10.7 (552)	11.3 (540)	
	Very easy	6.1 (221)	5.8 (251)	5.7 (266)	8.1 (344)	5.4 (225)	5.5 (288)	5.5 (253)	
	Don't know	21.8 (864)	20.9 (798)	22.0 (902)	21.9 (906)	25.5 (1089)	23.2 (1124)	22.6 (1040)	
	Refused	1.3 (48)	1.9 (81)	1.4 (61)	1.5 (73)	1.4 (55)	1.0 (72)	1.4 (74)	

<b>ENGLAND</b>	n=28,541	n=3995	n=3874	n=3493	n=4275	n=4290	n=4298	n=4316
<b>Cigarettes</b>	Very difficult	7.1 (254)	8.1 (247)	8.8 (296)	9.9 (421)	10.4 (435)	11.1 (507)	12.1 (512)
	Fairly difficult	10.1 (372)	11.0 (323)	13.0 (438)	13.0 (544)	13.4 (538)	13.5 (622)	13.6 (581)
	Fairly easy	25.1 (947)	22.7 (780)	28.8 (990)	28.6 (1185)	28.2 (1198)	29.4 (1285)	30.4 (1267)
	Very easy	53.4 (2263)	52.7 (2352)	43.5 (1559)	42.2 (1842)	40.5 (1780)	38.3 (1529)	36.1 (1609)
	Don't know	3.7 (136)	5.1 (159)	5.7 (200)	5.8 (257)	7.1 (315)	7.2 (328)	7.1 (320)
	Refused	0.6 (23)	0.4 (13)	0.2 (10)	0.5 (26)	0.5 (24)	0.5 (27)	0.6 (27)
<b>E-cigarettes</b>	Very difficult	4.6 (164)	5.1 (159)	6.3 (210)	6.3 (279)	8.3 (347)	8.5 (395)	8.9 (376)
	Fairly difficult	9.8 (363)	10.2 (320)	12.0 (411)	12.4 (517)	14.1 (566)	13.0 (593)	13.1 (546)
	Fairly easy	29.2 (1162)	28.8 (1076)	31.8 (1126)	30.9 (1315)	30.5 (1322)	32.3 (1428)	32.1 (1380)
	Very easy	50.7 (2089)	48.8 (2092)	43.6 (1527)	43.0 (1829)	38.5 (1670)	37.5 (1475)	37.0 (1632)
	Don't know	5.2 (193)	6.8 (216)	6.0 (206)	6.8 (305)	8.1 (359)	8.2 (377)	8.2 (354)
	Refused	0.6 (24)	0.3 (11)	0.3 (13)	0.6 (30)	0.5 (26)	0.6 (30)	0.7 (28)
<b>Alcohol</b>	Very difficult	5.1 (179)	4.9 (145)	7.0 (236)	7.1 (303)	7.7 (326)	9.0 (388)	9.5 (397)
	Fairly difficult	8.3 (302)	8.0 (241)	10.1 (340)	11.5 (491)	11.5 (449)	11.0 (488)	11.8 (503)
	Fairly easy	22.7 (831)	22.2 (686)	26.2 (878)	26.2 (1079)	25.8 (1067)	26.8 (1173)	26.6 (1080)
	Very easy	60.8 (2567)	60.7 (2671)	52.2 (1876)	49.4 (2147)	49.0 (2180)	47.4 (1974)	45.7 (2046)
	Don't know	2.6 (96)	3.8 (119)	4.2 (152)	5.3 (226)	5.4 (244)	5.4 (249)	5.8 (263)
	Refused	0.5 (20)	0.4 (12)	0.3 (11)	0.5 (29)	0.5 (24)	0.5 (26)	0.6 (27)
<b>Cannabis</b>	Very difficult	23.2 (891)	22.2 (784)	24.6 (845)	22.9 (959)	25.9 (1076)	25.5 (1106)	27.7 (1154)
	Fairly difficult	25.0 (1032)	25.2 (1029)	25.2 (896)	21.5 (909)	22.6 (1014)	21.8 (928)	23.8 (1025)
	Fairly easy	26.8 (1101)	27.6 (1183)	25.3 (884)	25.9 (1104)	22.8 (976)	24.1 (1025)	20.6 (912)
	Very easy	12.8 (498)	13.3 (484)	13.3 (467)	16.5 (726)	13.6 (575)	14.8 (635)	13.1 (584)
	Don't know	11.5 (441)	11.1 (373)	11.0 (380)	12.3 (526)	14.2 (603)	13.0 (561)	13.9 (593)
	Refused	0.8 (32)	0.6 (21)	0.5 (21)	1.0 (51)	0.8 (46)	0.8 (43)	1.0 (48)
<b>Painkillers/opiates</b>	Very difficult	25.3 (996)	28.5 (1116)	29.9 (1023)	26.3 (1086)	28.7 (1193)	29.8 (1244)	30.5 (1262)
	Fairly difficult	23.5 (950)	25.0 (987)	22.6 (770)	21.7 (915)	21.2 (921)	20.2 (867)	20.8 (920)
	Fairly easy	21.2 (867)	19.3 (808)	20.1 (713)	20.2 (888)	18.4 (815)	19.1 (840)	18.3 (797)
	Very easy	14.6 (582)	10.9 (408)	10.6 (405)	12.7 (564)	11.2 (490)	11.7 (502)	10.6 (502)
	Don't know	14.6 (566)	15.8 (536)	16.1 (554)	18.1 (769)	19.8 (835)	18.0 (785)	18.7 (784)
	Refused	0.9 (34)	0.6 (19)	0.7 (28)	1.0 (53)	0.6 (36)	1.1 (60)	1.1 (51)
<b>Ecstasy/MDMA</b>	Very difficult	40.1 (1598)	37.8 (1457)	41.1 (1413)	35.1 (1469)	39.3 (1697)	39.3 (1709)	42.7 (1803)
	Fairly difficult	22.5 (921)	22.1 (934)	21.6 (756)	19.8 (832)	19.3 (829)	19.6 (826)	18.9 (839)
	Fairly easy	14.9 (599)	16.2 (665)	14.0 (493)	16.9 (722)	12.6 (540)	13.3 (553)	11.8 (504)
	Very easy	5.3 (214)	6.2 (215)	5.7 (205)	7.7 (343)	6.3 (254)	6.1 (256)	4.6 (211)
	Don't know	16.2 (624)	17.0 (575)	16.7 (594)	19.4 (846)	21.6 (922)	20.5 (885)	20.7 (894)
	Refused	1.0 (39)	0.7 (28)	0.8 (32)	1.2 (63)	0.9 (48)	1.3 (69)	1.3 (65)
<b>Hallucinogens</b>	Very difficult	45.2 (1807)	42.4 (1656)	45.2 (1558)	38.9 (1645)	42.7 (1848)	42.2 (1830)	45.2 (1909)
	Fairly difficult	22.3 (914)	23.1 (977)	20.9 (734)	19.9 (839)	19.0 (811)	19.6 (821)	18.3 (815)
	Fairly easy	10.9 (431)	11.7 (470)	11.4 (403)	13.9 (589)	10.6 (451)	10.6 (458)	10.0 (446)
	Very easy	4.1 (165)	4.6 (154)	4.3 (158)	6.5 (283)	5.7 (224)	5.7 (234)	4.5 (196)
	Don't know	16.4 (634)	17.2 (581)	17.2 (598)	19.5 (852)	21.0 (901)	20.4 (880)	20.7 (887)
	Refused	1.1 (44)	1.0 (36)	1.0 (42)	1.3 (67)	1.0 (55)	1.5 (75)	1.2 (63)
<b>USA</b>	n=33,387	n=4095	n=4034	n=3981	n=5132	n=5991	n=5273	n=4881
<b>Cigarettes</b>	Very difficult	11.1 (438)	14.6 (592)	14.7 (624)	16.4 (871)	19.4 (1282)	22.5 (1264)	19.9 (991)
	Fairly difficult	9.8 (389)	11.0 (462)	13.0 (503)	15.3 (785)	19.5 (1153)	19.6 (999)	20.3 (973)
	Fairly easy	27.1 (1082)	24.3 (985)	27.5 (993)	29.2 (1480)	29.4 (1667)	25.9 (1329)	27.7 (1280)
	Very easy	45.2 (1911)	42.2 (1663)	37.1 (1519)	30.0 (1524)	21.8 (1248)	20.9 (1020)	19.6 (999)

	Don't know	6.0 (240)	7.3 (307)	7.0 (310)	8.2 (417)	8.8 (569)	9.5 (570)	11.1 (557)
	Refused	0.8 (35)	0.7 (25)	0.7 (32)	1.0 (55)	1.1 (72)	1.7 (91)	1.3 (81)
<b>E-cigarettes</b>	Very difficult	9.2 (360)	9.3 (403)	9.9 (426)	10.6 (567)	13.5 (868)	16.5 (911)	13.7 (697)
	Fairly difficult	10.5 (425)	11.8 (460)	10.8 (435)	12.2 (612)	15.0 (946)	15.9 (793)	14.9 (717)
	Fairly easy	28.6 (1161)	25.6 (1062)	27.3 (1061)	30.4 (1580)	33.5 (1947)	29.5 (1563)	32.1 (1545)
	Very easy	43.3 (1811)	43.9 (1708)	44.6 (1732)	38.3 (1936)	28.4 (1616)	27.5 (1398)	27.9 (1351)
	Don't know	7.7 (305)	8.8 (375)	6.7 (291)	7.5 (387)	8.6 (541)	8.8 (519)	9.9 (493)
	Refused	0.7 (33)	0.6 (26)	0.8 (36)	1.0 (50)	1.1 (73)	1.7 (89)	1.4 (78)
<b>Alcohol</b>	Very difficult	13.7 (560)	15.5 (623)	17.8 (754)	14.2 (763)	15.8 (977)	17.2 (901)	16.0 (798)
	Fairly difficult	17.9 (747)	17.6 (718)	17.8 (741)	17.1 (822)	18.0 (1081)	18.5 (950)	18.7 (885)
	Fairly easy	32.5 (1343)	30.3 (1216)	30.7 (1142)	31.0 (1586)	29.8 (1758)	28.7 (1485)	26.9 (1313)
	Very easy	29.5 (1201)	29.3 (1174)	26.9 (1048)	30.2 (1587)	27.9 (1659)	26.2 (1399)	27.7 (1375)
	Don't know	5.5 (212)	6.7 (280)	6.1 (265)	6.4 (323)	7.4 (452)	7.7 (456)	9.1 (432)
	Refused	0.8 (32)	0.6 (23)	0.7 (31)	1.0 (51)	1.1 (64)	1.7 (82)	1.6 (78)
<b>Cannabis</b>	Very difficult	19.8 (795)	20.5 (825)	20.7 (792)	17.1 (858)	22.5 (1343)	25.3 (1289)	23.2 (1082)
	Fairly difficult	17.4 (733)	19.1 (750)	17.0 (648)	16.1 (779)	19.4 (1109)	18.6 (906)	20.6 (939)
	Fairly easy	27.9 (1147)	24.5 (1010)	25.8 (996)	26.6 (1360)	24.9 (1526)	22.1 (1192)	23.5 (1116)
	Very easy	25.0 (1029)	25.0 (1012)	27.2 (1161)	29.9 (1627)	22.3 (1365)	21.5 (1198)	19.9 (1106)
	Don't know	8.8 (351)	10.0 (406)	8.7 (350)	9.3 (457)	9.7 (577)	10.7 (593)	11.2 (560)
	Refused	1.0 (40)	0.9 (31)	0.8 (34)	0.9 (51)	1.1 (71)	1.9 (95)	1.6 (78)
<b>Painkillers/opiates</b>	Very difficult	29.8 (1225)	31.0 (1242)	31.9 (1259)	31.3 (1583)	36.1 (2150)	36.3 (1835)	35.7 (1674)
	Fairly difficult	18.5 (773)	18.6 (751)	19.1 (706)	19.5 (991)	18.6 (1116)	18.8 (963)	18.1 (860)
	Fairly easy	19.8 (805)	18.7 (753)	18.6 (734)	18.4 (934)	15.6 (952)	16.2 (849)	16.7 (805)
	Very easy	13.8 (555)	12.6 (525)	12.1 (498)	11.8 (631)	9.9 (605)	9.6 (556)	9.6 (527)
	Don't know	16.6 (677)	17.9 (720)	17.2 (726)	17.8 (916)	18.0 (1063)	16.8 (948)	17.9 (909)
	Refused	1.5 (60)	1.2 (43)	1.1 (58)	1.2 (77)	1.8 (105)	2.3 (122)	2.0 (106)
<b>Ecstasy/MDMA</b>	Very difficult	39.7 (1642)	39.3 (1604)	39.7 (1563)	37.9 (1926)	44.6 (2670)	44.8 (2318)	44.6 (2133)
	Fairly difficult	18.5 (766)	17.5 (727)	17.0 (634)	18.9 (960)	17.4 (1030)	17.9 (911)	17.7 (849)
	Fairly easy	11.3 (460)	11.2 (432)	12.0 (464)	10.7 (554)	8.3 (495)	8.4 (454)	8.0 (391)
	Very easy	6.7 (263)	7.9 (305)	7.4 (339)	7.6 (403)	5.9 (330)	5.3 (267)	5.4 (263)
	Don't know	22.3 (901)	22.9 (925)	22.8 (918)	23.7 (1207)	22.3 (1363)	21.3 (1198)	22.6 (1140)
	Refused	1.4 (63)	1.2 (41)	1.1 (63)	1.3 (82)	1.6 (103)	2.3 (125)	1.7 (105)
<b>Hallucinogens</b>	Very difficult	42.3 (1735)	40.5 (1675)	41.5 (1629)	38.9 (1987)	45.4 (2699)	45.2 (2337)	45.4 (2142)
	Fairly difficult	17.3 (713)	18.1 (725)	16.5 (623)	18.7 (924)	16.7 (996)	17.2 (852)	17.3 (844)
	Fairly easy	10.9 (452)	10.9 (419)	11.4 (446)	11.2 (591)	8.8 (550)	9.6 (522)	9.3 (468)
	Very easy	6.5 (261)	7.1 (280)	7.5 (326)	7.7 (427)	6.2 (370)	6.0 (327)	5.6 (295)
	Don't know	21.5 (863)	22.0 (881)	21.8 (886)	22.0 (1109)	20.9 (1270)	19.5 (1093)	20.6 (1024)
	Refused	1.6 (71)	1.4 (54)	1.3 (71)	1.5 (94)	1.8 (106)	2.6 (142)	1.8 (108)

**Supplemental Table S2: Estimates from separate generalized estimating equations models (for each country) for very/fairly easy access to each substance, comparing substances within each country using a repeated measures approach, 2021<sub>Aug/Sept</sub>**

		CANADA		ENGLAND		US	
		AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p
Cigarettes	vs. E-cigarettes	0.81 (0.76-0.86)	<.0001	0.88 (0.83-0.94)	<.0001	0.59 (0.54-0.63)	<.0001
Cigarettes	vs. Alcohol	0.59 (0.55-0.64)	<.0001	0.75 (0.70-0.81)	<.0001	0.74 (0.67-0.81)	<.0001
Cigarettes	vs. Marijuana/cannabis	1.43 (1.33-1.53)	<.0001	4.06 (3.71-4.43)	<.0001	1.17 (1.07-1.29)	0.0006
Cigarettes	vs. Ecstasy/MDMA	8.93 (8.07-9.89)	<.0001	10.49 (9.39-11.71)	<.0001	5.93 (5.22-6.74)	<.0001
Cigarettes	vs. Hallucinogens	8.27 (7.49-9.14)	<.0001	12.17 (10.86-13.63)	<.0001	5.27 (4.66-5.96)	<.0001
Cigarettes	vs. Prescription pain killers/opiates	5.42 (4.93-5.95)	<.0001	5.05 (4.59-5.57)	<.0001	2.54 (2.28-2.83)	<.0001
E-cigarettes	vs. Alcohol	0.73 (0.68-0.78)	<.0001	0.85 (0.79-0.92)	<.0001	1.26 (1.15-1.38)	<.0001
E-cigarettes	vs. Marijuana/cannabis	1.76 (1.65-1.89)	<.0001	4.60 (4.20-5.04)	<.0001	2.00 (1.83-2.18)	<.0001
E-cigarettes	vs. Ecstasy/MDMA	11.01 (9.93-12.22)	<.0001	11.89 (10.63-13.30)	<.0001	10.09 (8.83-11.53)	<.0001
E-cigarettes	vs. Hallucinogens	10.19 (9.23-11.26)	<.0001	13.79 (12.28-15.49)	<.0001	8.97 (7.90-10.18)	<.0001
E-cigarettes	vs. Prescription pain killers/opiates	6.68 (6.08-7.33)	<.0001	5.73 (5.19-6.33)	<.0001	4.33 (3.87-4.83)	<.0001
Alcohol	vs. Marijuana/cannabis	2.42 (2.25-2.60)	<.0001	5.39 (4.92-5.90)	<.0001	1.58 (1.45-1.73)	<.0001
Alcohol	vs. Ecstasy/MDMA	15.10 (13.54-16.85)	<.0001	13.93 (12.42-15.63)	<.0001	8.00 (6.99-9.17)	<.0001
Alcohol	vs. Hallucinogens	13.98 (12.59-15.53)	<.0001	16.16 (14.37-18.17)	<.0001	7.11 (6.24-8.10)	<.0001
Alcohol	vs. Prescription pain killers/opiates	9.16 (8.29-10.12)	<.0001	6.71 (6.07-7.42)	<.0001	3.43 (3.07-3.83)	<.0001
Marijuana/cannabis	vs. Ecstasy/MDMA	6.25 (5.69-6.86)	<.0001	2.59 (2.37-2.82)	<.0001	5.05 (4.48-5.70)	<.0001
Marijuana/cannabis	vs. Hallucinogens	5.78 (5.29-6.32)	<.0001	3.00 (2.73-3.29)	<.0001	4.49 (4.01-5.03)	<.0001
Marijuana/cannabis	vs. Prescription pain killers/opiates	3.79 (3.46-4.15)	<.0001	1.25 (1.14-1.37)	<.0001	2.17 (1.95-2.41)	<.0001
Ecstasy/MDMA	vs. Hallucinogens	0.93 (0.87-0.99)	0.0242	1.16 (1.09-1.24)	<.0001	0.89 (0.82-0.97)	0.0064
Ecstasy/MDMA	vs. Prescription pain killers/opiates	0.61 (0.55-0.66)	<.0001	0.48 (0.44-0.53)	<.0001	0.43 (0.38-0.48)	<.0001
Hallucinogens	vs. Prescription pain killers/opiates	0.66 (0.60-0.71)	<.0001	0.42 (0.38-0.46)	<.0001	0.48 (0.43-0.54)	<.0001

<sup>a</sup>Estimates from differences in Least Squares Means from generalized estimating equations models that use a repeated measures approach, adjusting for age, sex, race/ethnicity.

**Supplemental Table S3: Estimates from separate logistic regression models (for each substance) for very/fairly easy access to each substance, comparing between countries, 2021<sub>Aug/Sept</sub>**

	CANADA vs US		ENGLAND vs US		ENGLAND vs CANADA	
	AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p
Cigarettes	<b>1.95 (1.75-2.14)</b>	<.0001	<b>2.30 (2.05-2.58)</b>	<.0001	<b>1.18 (1.07-1.31)</b>	<b>0.0011</b>
E-cigarettes	<b>1.38 (1.24-1.54)</b>	<.0001	<b>1.50 (1.33-1.68)</b>	<.0001	1.08 (0.98-1.20)	0.1236
Alcohol	<b>2.44 (2.18-2.73)</b>	<.0001	<b>2.23 (1.98-2.50)</b>	<.0001	0.91 (0.82-1.02)	0.0943
Marijuana/cannabis	<b>1.59 (1.43-1.77)</b>	<.0001	<b>0.65 (0.58-0.73)</b>	<.0001	<b>0.41 (0.37-0.45)</b>	<.0001
Ecstasy/MDMA	<b>1.25 (1.08-1.46)</b>	<b>0.0031</b>	<b>1.27 (1.09-1.49)</b>	<b>0.0021</b>	1.02 (0.89-1.16)	0.8199
Hallucinogens	<b>1.20 (1.04-1.38)</b>	<b>0.0130</b>	0.97 (0.84-1.13)	0.7403	<b>0.81 (0.71-0.93)</b>	<b>0.0022</b>
Prescription pain killers/opiates	<b>0.82 (0.73-0.92)</b>	<b>0.0009</b>	1.12 (0.998-1.27)	0.0545	<b>1.37 (1.23-1.53)</b>	<.0001

<sup>a</sup>Estimates from contrasts between countries in logistic regression models adjusting for age, sex, race/ethnicity.

**Supplemental Table S4: Estimates from separate logistic regression models for very/fairly easy access to each substance (presented in Figure 2), contrasts between waves within countries, 2017-2021**

		CANADA		ENGLAND		US		
		AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p	
<b>Cigarettes</b>	2018 v 2017	<b>0.86 (0.77-0.96)</b>	<b>0.008</b>	<b>0.82 (0.73-0.93)</b>	<b>0.002</b>	<b>0.74 (0.66-0.83)</b>	<b>&lt;0.0001</b>	
	2019 v 2018	<b>0.73 (0.65-0.87)</b>	<b>&lt;0.0001</b>	<b>0.87 (0.77-0.98)</b>	<b>0.03</b>	0.91 (0.81-1.02)	0.11	
	2020 <sub>Feb</sub> v 2019	0.97 (0.87-1.07)	0.55	0.93 (0.83-1.04)	0.21	<b>0.80 (0.71-0.89)</b>	<b>0.0001</b>	
	2020 <sub>Aug</sub> v 2020 <sub>Feb</sub>	1.03 (0.93-1.13)	0.58	0.91 (0.82-1.01)	0.07	<b>0.72 (0.65-0.80)</b>	<b>&lt;0.0001</b>	
	2021 <sub>Feb</sub> v 2020 <sub>Aug</sub>	0.96 (0.87-1.05)	0.34	0.98 (0.88-1.09)	0.69	<b>0.85 (0.77-0.95)</b>	<b>0.003</b>	
	2021 <sub>Aug</sub> v 2021 <sub>Feb</sub>	1.01 (0.92-1.11)	0.90	0.96 (0.86-1.07)	0.43	1.01 (0.89-1.13)	0.92	
	<b>Interaction</b>	<b>CA vs. US</b>			<b>EN vs US</b>			
	2020 <sub>Feb</sub> v 2019 <sub>Aug</sub>	<b>1.22 (1.04-1.22)</b>	<b>p=0.01</b>	1.17 (0.99-1.37)	p=0.06			
	2020 <sub>Aug</sub> v 2019 <sub>Aug</sub>	<b>1.74 (1.50-2.02)</b>	<b>p&lt;0.0001</b>	<b>1.48 (1.26-1.73)</b>	<b>p&lt;0.0001</b>			
	2021 <sub>Feb</sub> v 2019 <sub>Aug</sub>	<b>1.95 (1.68-2.28)</b>	<b>p&lt;0.0001</b>	<b>1.70 (1.44-2.00)</b>	<b>p&lt;0.0001</b>			
2021 <sub>Aug</sub> v 2019 <sub>Aug</sub>	<b>1.96 (1.67-2.29)</b>	<b>p&lt;0.0001</b>	<b>1.62 (1.37-1.91)</b>	<b>p&lt;0.0001</b>				
<b>E-cigarettes</b>	2018 v 2017	0.98 (0.88-1.09)	0.72	<b>0.86 (0.76-0.97)</b>	<b>0.01</b>	<b>0.88 (0.79-0.98)</b>	<b>0.03</b>	
	2019 v 2018	1.06 (0.95-1.18)	0.31	0.90 (0.79-1.02)	0.11	1.13 (0.997-1.27)	0.055	
	2020 <sub>Feb</sub> v 2019	0.98 (0.88-1.10)	0.78	0.93 (0.83-1.05)	0.25	<b>0.87 (0.77-0.98)</b>	<b>0.02</b>	
	2020 <sub>Aug</sub> v 2020 <sub>Feb</sub>	<b>0.87 (0.78-0.96)</b>	<b>0.01</b>	<b>0.78 (0.70-0.87)</b>	<b>&lt;0.0001</b>	<b>0.73 (0.66-0.82)</b>	<b>&lt;0.0001</b>	
	2021 <sub>Feb</sub> v 2020 <sub>Aug</sub>	0.96 (0.87-1.06)	0.44	1.06 (0.95-1.17)	0.32	<b>0.84 (0.75-0.93)</b>	<b>0.0009</b>	
	2021 <sub>Aug</sub> v 2021 <sub>Feb</sub>	<b>0.90 (0.82-0.995)</b>	<b>0.04</b>	0.99 (0.89-1.10)	0.81	1.12 (0.996-1.26)	0.06	
	<b>Interaction</b>	<b>CA vs. US</b>			<b>EN vs US</b>			
	2020 <sub>Feb</sub> v 2019 <sub>Aug</sub>	<b>1.14 (0.96-1.34)</b>	<b>p=0.13</b>	<b>1.08 (0.91-1.28)</b>	<b>p=0.39</b>			
	2020 <sub>Aug</sub> v 2019 <sub>Aug</sub>	<b>1.34 (1.15-1.57)</b>	<b>p=0.0002</b>	<b>1.15 (0.98-1.35)</b>	<b>p=0.09</b>			
	2021 <sub>Feb</sub> v 2019 <sub>Aug</sub>	<b>1.54 (1.31-1.81)</b>	<b>p&lt;0.0001</b>	<b>1.45 (1.23-1.71)</b>	<b>p&lt;0.0001</b>			
2021 <sub>Aug</sub> v 2019 <sub>Aug</sub>	<b>1.24 (1.05-1.46)</b>	<b>p=0.009</b>	<b>1.28 (1.08-1.52)</b>	<b>p=0.005</b>				
<b>Marijuana/ cannabis</b>	2018 v 2017	0.94 (0.86-1.04)	0.25	1.06 (0.96-1.17)	0.27	<b>0.87 (0.79-0.96)</b>	<b>0.007</b>	
	2019 v 2018	<b>1.17 (1.06-1.29)</b>	<b>0.002</b>	0.92 (0.83-1.03)	0.14	<b>1.14 (1.02-1.27)</b>	<b>0.02</b>	
	2020 <sub>Feb</sub> v 2019	1.09 (0.99-1.21)	0.08	<b>1.18 (1.06-1.31)</b>	<b>0.002</b>	<b>1.17 (1.04-1.30)</b>	<b>0.006</b>	
	2020 <sub>Aug</sub> v 2020 <sub>Feb</sub>	<b>0.90 (0.82-0.99)</b>	<b>0.03</b>	<b>0.78 (0.71-0.86)</b>	<b>&lt;0.0001</b>	<b>0.69 (0.63-0.76)</b>	<b>&lt;0.0001</b>	
	2021 <sub>Feb</sub> v 2020 <sub>Aug</sub>	0.95 (0.87-1.04)	0.30	<b>1.12 (1.02-1.24)</b>	<b>0.02</b>	<b>0.88 (0.80-0.98)</b>	<b>0.02</b>	
	2021 <sub>Aug</sub> v 2021 <sub>Feb</sub>	0.96 (0.88-1.05)	0.38	<b>0.81 (0.73-0.89)</b>	<b>&lt;0.0001</b>	0.98 (0.87-1.09)	0.66	
	<b>Interaction</b>	<b>US vs CA</b>			<b>EN vs CA</b>			
	2019 <sub>Aug</sub> v 2018 <sub>Aug</sub>	0.97 (0.84-1.13)	p=0.72	<b>0.79 (0.68-0.91)</b>	<b>p=0.001</b>			
	2020 <sub>Feb</sub> v 2018 <sub>Aug</sub>	1.04 (0.90-1.20)	p=0.60	<b>0.85 (0.74-0.98)</b>	<b>p=0.03</b>			
	2020 <sub>Aug</sub> v 2018 <sub>Aug</sub>	<b>0.80 (0.70-0.92)</b>	<b>p=0.001</b>	<b>0.74 (0.64-0.85)</b>	<b>p&lt;0.0001</b>			
2021 <sub>Feb</sub> v 2018 <sub>Aug</sub>	<b>0.74 (0.64-0.85)</b>	<b>p&lt;0.0001</b>	<b>0.87 (0.76-0.998)</b>	<b>p=0.048</b>				
2021 <sub>Aug</sub> v 2018 <sub>Aug</sub>	<b>0.75 (0.65-0.87)</b>	<b>p=0.0001</b>	<b>0.73 (0.63-0.84)</b>	<b>p&lt;0.0001</b>				
<b>Alcohol</b>	2018 v 2017	<b>0.79 (0.70-0.89)</b>	<b>0.0001</b>	0.95 (0.83-1.09)	0.45	<b>0.89 (0.80-0.99)</b>	<b>0.04</b>	
	2019 v 2018	<b>0.80 (0.72-0.90)</b>	<b>0.0001</b>	<b>0.76 (0.66-0.87)</b>	<b>&lt;0.0001</b>	0.91 (0.81-1.02)	0.11	
	2020 <sub>Feb</sub> v 2019	1.07 (0.95-1.19)	0.27	<b>0.85 (0.76-0.96)</b>	<b>0.01</b>	<b>1.19 (1.06-1.33)</b>	<b>0.003</b>	
	2020 <sub>Aug</sub> v 2020 <sub>Feb</sub>	0.98 (0.88-1.09)	0.76	0.97 (0.87-1.09)	0.62	<b>0.87 (0.78-0.97)</b>	<b>0.009</b>	
	2021 <sub>Feb</sub> v 2020 <sub>Aug</sub>	1.02 (0.92-1.13)	0.71	0.98 (0.88-1.10)	0.73	0.91 (0.82-1.02)	0.09	
	2021 <sub>Aug</sub> v 2021 <sub>Feb</sub>	0.995 (0.90-1.10)	0.92	0.92 (0.83-1.03)	0.16	0.97 (0.86-1.09)	0.63	

<sup>a</sup>Estimates from contrasts between countries in logistic regression models adjusting for age, sex, race/ethnicity.

**Supplemental Table S5: Estimates from separate logistic regression models for very/fairly easy access to each substance, from within-country models for the US, 2017-2021 (pooled)**

	Contrast	Cigarettes		E-cigarettes		Cannabis	
		AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p
<b>Base model<sup>9</sup></b>	T21 not implemented	ref		ref		Not legal	ref
	T21 <1yr	<b>0.57 (0.53-0.61)</b>	<b>&lt;.0001</b>	<b>0.74 (0.69-0.80)</b>	<b>&lt;.0001</b>	Medical legal	<b>1.12 (1.05-1.20)</b> <b>&lt;.0001</b>
	T21 1-2 yrs	<b>0.45 (0.42-0.48)</b>	<b>&lt;.0001</b>	<b>0.64 (0.59-0.69)</b>	<b>&lt;.0001</b>	Medical + non-medical (MLA 21) legal	<b>1.37 (1.27-1.48)</b> <b>&lt;.0001</b>
	T21 3+ yrs	<b>0.44 (0.39-0.50)</b>	<b>&lt;.0001</b>	<b>0.67 (0.60-0.76)</b>	<b>&lt;.0001</b>	Both vs med only	<b>1.22 (1.14-1.31)</b> <b>&lt;.0001</b>
<b>Interaction:</b>	<b>Simple effects</b>						p=0.39
<b>T21 by age</b>	age 16 : <1 year vs not	<b>0.72 (0.63-0.83)</b>	<b>&lt;.0001</b>	0.92 (0.80-1.06)	0.24	--	--
	age 16 : 1-2 years vs not	<b>0.51 (0.44-0.59)</b>	<b>&lt;.0001</b>	<b>0.72 (0.63-0.84)</b>	<b>&lt;.0001</b>	--	--
	age 16 : 3+ years vs not	<b>0.49 (0.38-0.62)</b>	<b>&lt;.0001</b>	0.87 (0.68-1.10)	0.24	--	--
	age 17 : <1 year vs not	<b>0.70 (0.61-0.80)</b>	<b>&lt;.0001</b>	0.93 (0.81-1.07)	0.33	--	--
	age 17 : 1-2 years vs not	<b>0.54 (0.47-0.61)</b>	<b>&lt;.0001</b>	<b>0.79 (0.69-0.91)</b>	<b>0.0008</b>	--	--
	age 17 : 3+ years vs not	<b>0.60 (0.48-0.75)</b>	<b>&lt;.0001</b>	0.88 (0.70-1.11)	0.29	--	--
	age 18 : <1 year vs not	<b>0.44 (0.38-0.51)</b>	<b>&lt;.0001</b>	<b>0.55 (0.47-0.64)</b>	<b>&lt;.0001</b>	--	--
	age 18 : 1-2 years vs not	<b>0.37 (0.32-0.43)</b>	<b>&lt;.0001</b>	<b>0.52 (0.45-0.60)</b>	<b>&lt;.0001</b>	--	--
	age 18 : 3+ years vs not	<b>0.38 (0.30-0.77)</b>	<b>&lt;.0001</b>	<b>0.50 (0.39-0.62)</b>	<b>&lt;.0001</b>	--	--
	age 19 : <1 year vs not	<b>0.46 (0.39-0.55)</b>	<b>&lt;.0001</b>	<b>0.60 (0.50-0.72)</b>	<b>&lt;.0001</b>	--	--
	age 19 : 1-2 years vs not	<b>0.38 (0.32-0.45)</b>	<b>&lt;.0001</b>	<b>0.52 (0.43-0.62)</b>	<b>&lt;.0001</b>	--	--
	age 19 : 3+ years vs not	<b>0.33 (0.25-0.42)</b>	<b>&lt;.0001</b>	<b>0.51 (0.39-0.67)</b>	<b>&lt;.0001</b>	--	--
	<b>Interaction effects</b>					--	--
	diff by <1 year vs not:	<b>0.50 (0.41-0.61)</b>	<b>&lt;.0001</b>	0.86 (0.70-1.04)	0.13	--	--
	age 17 vs 16					--	--
	diff by 1-2 years vs not:	<b>0.27 (0.22-0.33)</b>	<b>&lt;.0001</b>	<b>0.57 (0.47-0.70)</b>	<b>&lt;.0001</b>	--	--
	age 17 vs 16					--	--
	diff by 3+ years vs not:	<b>0.29 (0.21-0.41)</b>	<b>&lt;.0001</b>	0.77 (0.55-1.07)	0.12	--	--
	age 17 vs 16					--	--
	diff by <1 year vs not:	<b>0.31 (0.26-0.38)</b>	<b>&lt;.0001</b>	<b>0.50 (0.41-0.62)</b>	<b>&lt;.0001</b>	--	--
	age 18 vs 16					--	--
	diff by 1-2 years vs not:	<b>0.19 (0.15-0.23)</b>	<b>&lt;.0001</b>	<b>0.37 (0.30-0.46)</b>	<b>&lt;.0001</b>	--	--
	age 18 vs 16					--	--
	diff by 3+ years vs not:	<b>0.18 (0.13-0.26)</b>	<b>&lt;.0001</b>	<b>0.43 (0.31-0.60)</b>	<b>&lt;.0001</b>	--	--
	age 18 vs 16					--	--
	diff by <1 year vs not:	<b>0.33 (0.27-0.41)</b>	<b>&lt;.0001</b>	<b>0.55 (0.44-0.69)</b>	<b>&lt;.0001</b>	--	--
	age 19 vs 16					--	--
	diff by 1-2 years vs not:	<b>0.20 (0.16-0.24)</b>	<b>&lt;.0001</b>	<b>0.37 (0.30-0.47)</b>	<b>&lt;.0001</b>	--	--
	age 19 vs 16					--	--
	diff by 3+ years vs not:	<b>0.16 (0.11-0.23)</b>	<b>&lt;.0001</b>	<b>0.44 (0.31-0.64)</b>	<b>&lt;.0001</b>	--	--
	age 19 vs 16					--	--
<b>Base model w/ state</b>	T21 not implemented	ref		ref		Not legal	ref <b>p&lt;0.0001</b>

	T21 <1yr	<b>0.57 (0.53-0.61)</b>	<b>&lt;.0001</b>	<b>0.74 (0.69-0.80)</b>	<b>&lt;.0001</b>	Medical legal	0.85 (0.69-1.04)	0.12
	T21 1-2 yrs	<b>0.42 (0.39-0.45)</b>	<b>&lt;.0001</b>	<b>0.61 (0.56-0.66)</b>	<b>&lt;.0001</b>	Medical + non-medical (MLA 21) legal	<b>0.72 (0.57-0.92)</b>	<b>0.008</b>
	T21 3+ yrs	<b>0.24 (0.20-0.29)</b>	<b>&lt;.0001</b>	<b>0.43 (0.36-0.53)</b>	<b>&lt;.0001</b>	Both vs med only	<b>0.85 (0.74-0.98)</b>	<b>0.02</b>
<b>Base model +</b>	months	<b>b=-0.02</b>	<b>p&lt;0.0001</b>	<b>b=-0.01</b>	<b>p&lt;0.0001</b>	months	<b>b=-0.009</b>	<b>p&lt;0.0001</b>
<b>calendar time</b>								
(months)								
	T21	-	<b>p&lt;0.0001</b>	-	p=0.11	Cannabis legalization	-	<b>p&lt;0.0001</b>
	T21 not implemented	ref		ref		Not legal	ref	
	T21 <1yr	<b>0.84 (0.76-0.93)</b>	<b>&lt;.0001</b>	0.92 (0.83-1.02)	0.11	Medical legal	1.12 (1.05-1.20)	<b>0.0006</b>
	T21 1-2 yrs	<b>0.77 (0.69-0.87)</b>	<b>&lt;.0001</b>	<b>0.86 (0.77-0.97)</b>	<b>0.01</b>	Medical + non-medical (MLA 21) legal	1.43 (1.32-1.54)	<b>0.0001</b>
	T21 3+ yrs	<b>0.73 (0.63-0.85)</b>	<b>&lt;.0001</b>	0.89 (0.77-1.03)	0.13	Both vs med only	1.27 (1.18-1.37)	<b>0.0001</b>

<sup>a</sup>Estimates from contrasts between countries in logistic regression models adjusting for age, sex, and race/ethnicity.

**Supplemental Table S6: Estimates from separate logistic regression models for very/fairly easy access to each substance, from within-country models for Canada, 2017-2021 (pooled)**

	Contrast	Cigarettes		E-cigarettes		Contrast	Cannabis	
		AOR (95% CI) <sup>a</sup>	p	AOR (95% CI) <sup>a</sup>	p		AOR (95% CI) <sup>a</sup>	p
<b>Base model<sup>a</sup></b>	Not legal					Not legal	ref	
	MLA 18	ref		ref		MLA 18	<b>1.20 (1.10-1.32)</b>	<b>&lt;0.0001</b>
	MLA 19	<b>0.84 (0.79-0.89)</b>	<b>p&lt;0.0001</b>	1.00 (0.94-1.06)	p=0.95	MLA 19	<b>1.18 (1.11-1.26)</b>	<b>&lt;0.0001</b>
	MLA 21					MLA 21	<b>0.78 (0.72-0.86)</b>	<b>&lt;0.0001</b>
<b>Interaction: MLA by age</b>	<b>Simple effects</b>		<b>p&lt;0.0001</b>		<b>p&lt;0.0001</b>			<b>p&lt;0.0001</b>
	age 16 : MLA 19 vs 18	1.10 (0.99-1.23)	0.12	<b>1.13 (1.01-1.27)</b>	<b>0.04</b>	age 16 : 18 vs not legal	0.87 (0.71-1.06)	0.16
	age 17 : MLA 19 vs 18	0.93 (0.84-1.04)	0.19	<b>1.12 (1.004-1.25)</b>	<b>0.04</b>	age 16 : 19 vs not legal	0.93 (0.81-1.07)	0.32
	age 18 : MLA 19 vs 18	<b>0.55 (0.49-0.61)</b>	<b>&lt;.0001</b>	<b>0.79 (0.70-0.88)</b>	<b>&lt;.0001</b>	age 16 : 21 vs not legal	<b>0.51 (0.42-0.62)</b>	<b>&lt;.0001</b>
	age 19 : MLA 19 vs 18	0.92 (0.81-1.06)	0.27	1.00 (0.87-1.14)	0.99	age 17 : 18 vs not legal	0.92 (0.77-1.11)	0.38
						age 17 : 19 vs not legal	0.97 (0.86-1.10)	0.63
						age 17 : 21 vs not legal	<b>0.62 (0.53-0.74)</b>	<b>&lt;.0001</b>
						age 18 : 18 vs not legal	<b>1.59 (1.35-1.88)</b>	<b>&lt;.0001</b>
						age 18 : 19 vs not legal	<b>1.24 (1.11-1.39)</b>	<b>0.0001</b>
						age 18 : 21 vs not legal	1.03 (0.87-1.21)	0.72
						age 19 : 18 vs not legal	<b>1.58 (1.30-1.92)</b>	<b>&lt;.0001</b>
						age 19 : 19 vs not legal	<b>1.73 (1.53-1.96)</b>	<b>&lt;.0001</b>
						age 19 : 21 vs not legal	1.06 (0.88-1.29)	0.52
	<b>Interaction effects</b>							
	diff by MLA 19 vs 18: age 16 vs 18	<b>0.60 (0.52-0.71)</b>	<b>&lt;.0001</b>	0.89 (0.76-1.04)	0.15	diff by 18 vs not legal: age 17 vs 16	0.80 (0.61-1.05)	0.10
	diff by MLA 19 vs 18: age 17 vs 18	<b>0.51 (0.44-0.59)</b>	<b>&lt;.0001</b>	0.88 (0.75-1.03)	0.12	diff by 19 vs not legal: age 17 vs 16	0.90 (0.75-1.09)	0.29
	diff by MLA 19 vs 18: age 19 vs 18	<b>0.50 (0.42-0.60)</b>	<b>&lt;.0001</b>	<b>0.79 (0.66-0.94)</b>	<b>0.008</b>	diff by 21 vs not legal: age 17 vs 16	<b>0.32 (0.25-0.41)</b>	<b>&lt;.0001</b>
						diff by 18 vs not legal: age 18 vs 16	<b>1.38 (1.07-1.79)</b>	<b>0.01</b>
						diff by 19 vs not legal: age 18 vs 16	1.16 (0.97-1.38)	0.11
						diff by 21 vs not legal: age 18 vs 16	<b>0.53 (0.41-0.68)</b>	<b>&lt;.0001</b>
						diff by 18 vs not legal: age 19 vs 16	<b>1.37 (1.03-1.81)</b>	<b>0.03</b>



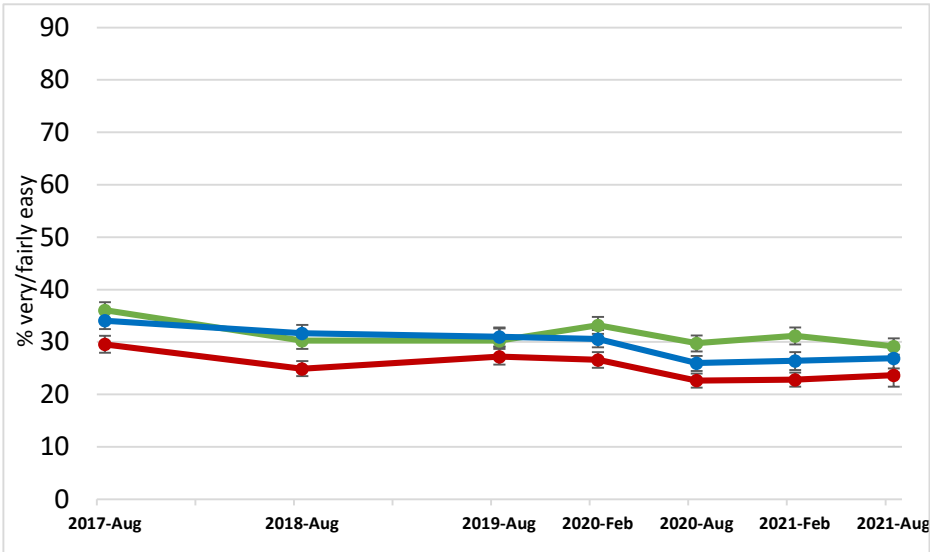
						diff by 19 vs not legal: age 19 vs 16	<b>1.62 (1.34-1.95)</b>	<b>&lt;.0001</b>
						diff by 21 vs not legal: age 19 vs 16	<b>0.55 (0.42-0.71)</b>	<b>&lt;.0001</b>
<b>Base model +</b>	Months	<b>b=-0.01</b>	<b>p&lt;0.0001</b>	<b>b=-0.005</b>	<b>p&lt;0.0001</b>	Months		p=0.069
<b>months since</b>								
<b>policy</b>	MLA 19 v 18	<b>0.84 (0.79-0.88)</b>	<b>p&lt;0.0001</b>	1.00 (0.94-1.06)	p=0.93	MLA 18 vs restricted	<b>1.31 (1.15-1.50)</b>	<b>&lt;.0001</b>
						MLA 19 vs restricted	<b>1.30 (1.15-1.46)</b>	<b>&lt;.0001</b>
						MLA 21 vs restricted	0.87 (0.75-1.01)	0.06
Add months	Months*MLA	--		b=0.003	p=0.25		--	
*MLA								
interaction	Months	--		<b>b=-0.008</b>	<b>p&lt;0.0001</b>		--	
	MLA 19 v 18	--		b=-0.06	p=0.32		--	

<sup>a</sup>Estimates from contrasts between countries in logistic regression models adjusting for age, sex, and race/ethnicity.

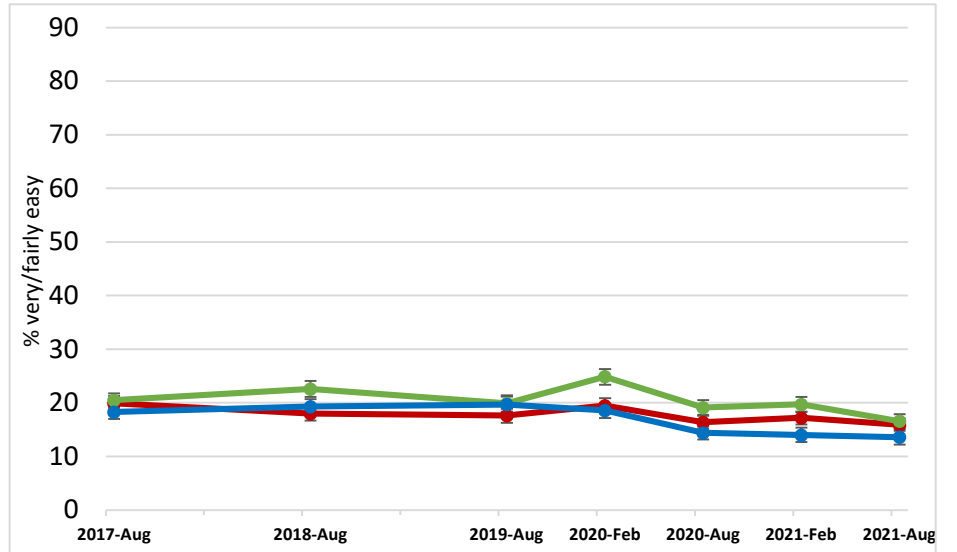
Supplemental Figure S1: Perceived ease of accessing illicit substances among youth aged 16-19, by country, 2017-2021

CANADA ENGLAND US

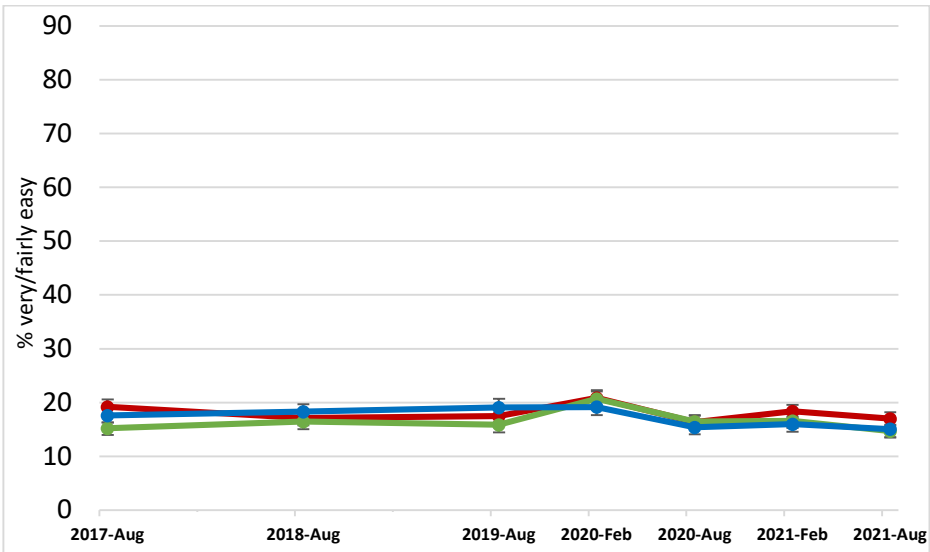
A. PRESCRIPTION PAINKILLERS/OPIATES



B. ECSTASY/MDMA



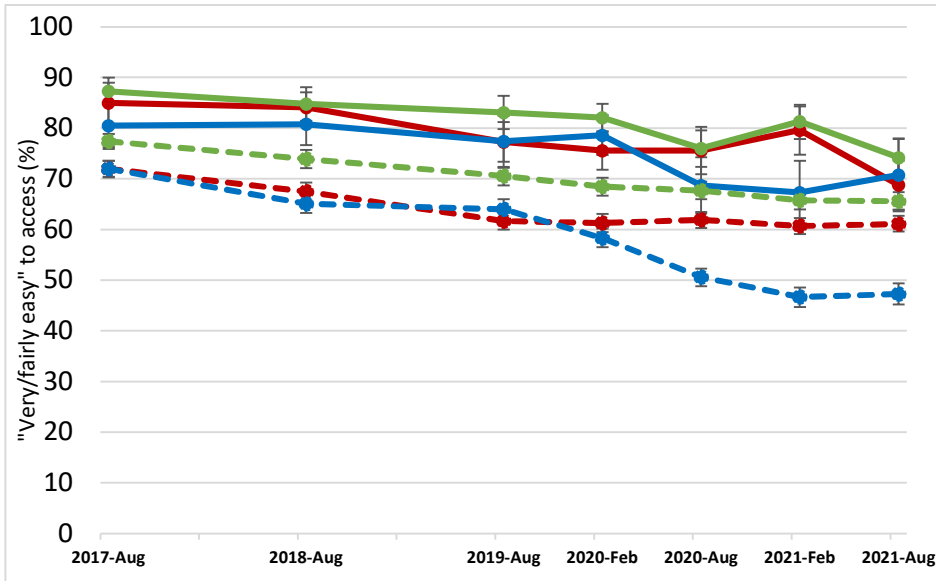
C. HALLUCINOGENS



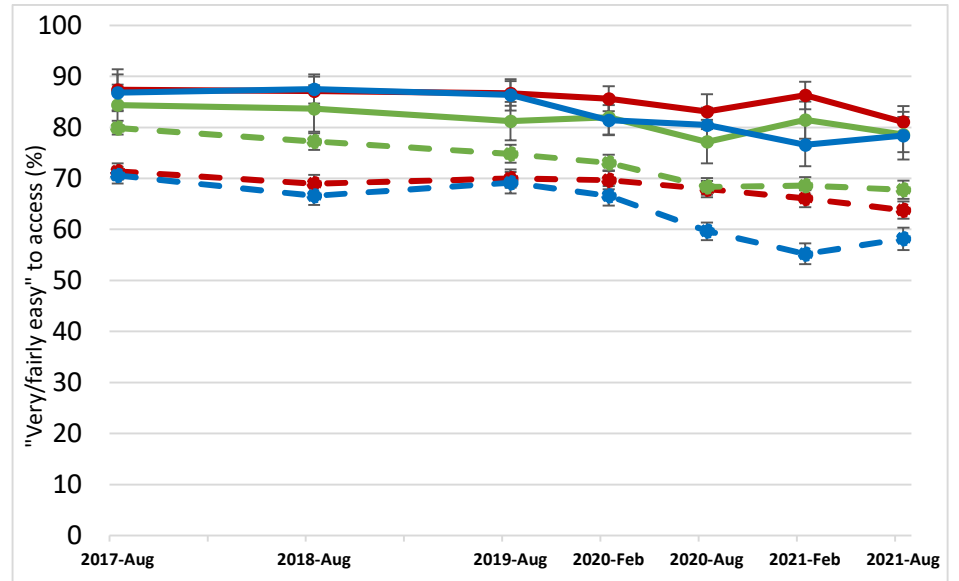
Supplemental Figure S2: Perceived ease of accessing substances among youth aged 16-19, by user status and by country, 2017-2021 (N=91,647)

● Canada - Past 30D user   
 ● England - Past 30D user   
 ● US - Past 30D user   
 -●- Canada - Else   
 -●- England - Else   
 -●- US - Else

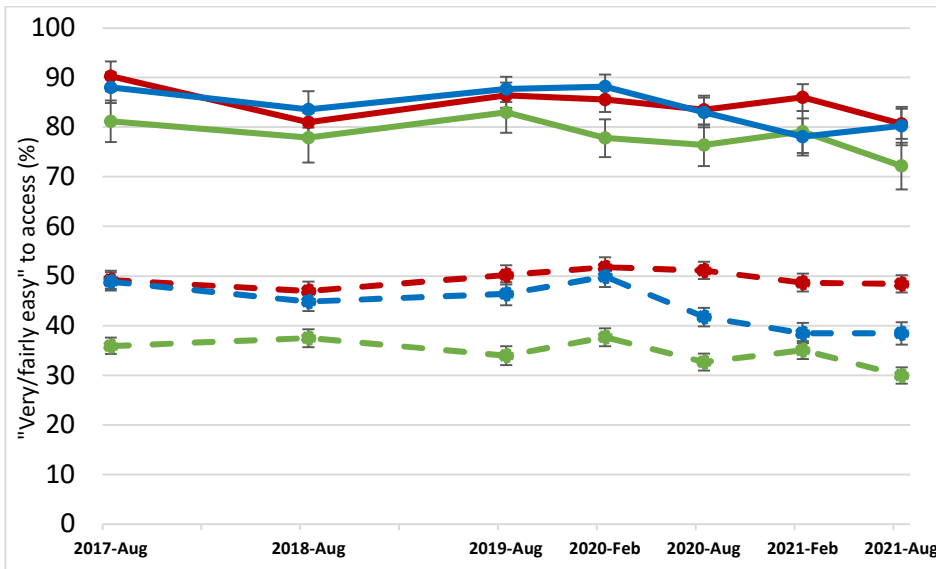
**A. CIGARETTES**



**B. E-CIGARETTES**



**C. CANNABIS**



### **Perceived ease of access by substance use status**

Supplemental Figure S2 shows perceived ease of accessing tobacco products and cannabis among youth in each country, by their status as a past 30-day user or not (including non-users, former users, and those who may not have indicated last use).

#### *Cigarettes*

Comparing past 30-day smokers to others, smokers perceived greater ease accessing cigarettes in each country ( $p < 0.001$ ). When tested in a model with a two-way interaction term for past 30-day smoking by wave, there was no significant interaction in England ( $p = 0.06$ ) or the US ( $p = 0.07$ ), but there was in Canada ( $p = 0.04$ ). Trends in perceived ease of accessing cigarettes were similar among past 30-day smokers and other respondents, but diverged between February and August of 2021 in Canada, whereby past 30-day smokers perceived a decrease in ease of getting cigarettes while others did not (aOR=0.59, 95%CI 0.41-0.84,  $p = 0.004$ ).

#### *E-cigarettes*

For e-cigarettes, past 30-day vapers in all three countries perceived greater ease of access ( $p < 0.001$ ) than others. There was a no significant interaction between past 30-day e-cigarette use and wave in Canada ( $p = 0.66$ ) or England ( $p = 0.19$ ), indicating that patterns over time were similar among both past 30-day e-cigarette users and others. However, there was a significant interaction in the US ( $p = 0.02$ ), such that between August 2019 and February 2020 (i.e., the time period including federal implementation of T21), e-cigarette users perceived a greater decrease than others in access to e-cigarettes (aOR=0.66, 95%CI 0.51-0.87,  $p = 0.003$ ).

#### *Cannabis*

Past 30-day cannabis users perceived much greater ease of accessing cannabis, in all countries ( $p < 0.001$ ). The interaction between past 30-day cannabis use and wave was significant only in Canada ( $p < 0.001$ ): perceived ease of access decreased more among users during the pre-legalization period between 2017 and 2018 (aOR=0.48, 95%CI 0.33-0.70,  $p < 0.001$ ), and between February and August of 2021 (aOR=0.64, 95%CI 0.49-0.85,  $p = 0.002$ ). There was a no significant interaction in England ( $p = 0.29$ ) or the US ( $p = 0.48$ ).