

SUPPLEMENTARY FILE

Table S1. Associations of using at least one medication for mental disorders with entering paid employment among secondary vocational education (N = 1 004 395) and higher education graduates (N = 1 341 998), and with exiting paid employment among secondary vocational education (N = 866 545) and higher education graduates (N = 969 885) who entered paid employment, stratified by sex and migration background.

Secondary vocational education				
	Among all graduates (N = 1 004 395)		Among graduates who entered paid employment (N = 866 545)	
	Prevalence of medication N (%)	Enter paid employment HR (95% CI) ¹	Prevalence of medication N (%)	Exit paid employment HR (95% CI) ¹
Sex				
- Female	26 046 (5.5)	0.72 (0.71-0.73)	20 676 (5.1)	1.32 (1.29-1.35)
- Male	26 261 (5.0)	0.70 (0.69-0.71)	21 503 (4.6)	1.51 (1.47-1.55)
- Transgender	86 (13.5)	0.76 (0.57-0.998)	60 (12.8)	1.11 (0.72-1.71)
Migration background				
- Native Dutch	43 484 (5.9)	0.71 (0.70-0.71)	35 837 (5.4)	1.49 (1.46-1.52)
- Moroccan	1 017 (2.6)	0.60 (0.56-0.65)	677 (2.2)	1.27 (1.15-1.41)
- Turkish	1 180 (2.6)	0.69 (0.64-0.73)	878 (2.5)	1.22 (1.11-1.35)
- Antillean	1 581 (3.3)	0.69 (0.65-0.74)	1 083 (2.8)	1.14 (1.05-1.25)
- Other European	1 385 (5.4)	0.72 (0.68-0.76)	1 079 (5.0)	1.38 (1.25-1.51)
- Other non-European	3 746 (3.6)	0.78 (0.75-0.81)	2 685 (3.5)	1.13 (1.07-1.20)
Higher education				
	Among all graduates (N = 1 341 998)		Among graduates who entered paid employment (N = 969 885)	
	Prevalence of medication N (%)	Enter paid employment HR (95% CI) ¹	Prevalence of medication N (%)	Exit paid employment HR (95% CI) ¹
Sex				
- Female	31 473 (4.3)	0.70 (0.69-0.71)	22 435 (4.2)	1.38 (1.35-1.42)
- Male	21 214 (3.5)	0.67 (0.66-0.68)	14 412 (3.3)	1.45 (1.40-1.49)
- Transgender	96 (15.6)	0.70 (0.51-0.95)	49 (14.6)	1.30 (0.78-2.16)
Migration background				
- Native Dutch	43 206 (4.4)	0.65 (0.64-0.66)	30 455 (4.0)	1.45 (1.42-1.48)
- Moroccan	688 (3.0)	0.59 (0.54-0.64)	490 (2.7)	1.30 (1.12-1.51)
- Turkish	843 (3.3)	0.71 (0.66-0.78)	593 (3.1)	1.37 (1.20-1.57)
- Antillean	1 294 (3.4)	0.71 (0.67-0.76)	890 (3.0)	1.18 (1.05-1.32)
- Other European	1 812 (4.4)	0.78 (0.73-0.82)	1 203 (4.3)	1.26 (1.14-1.39)
- Other non-European	4 940 (2.2)	1.13 (1.09-1.17)	3 265 (2.8)	1.28 (1.20-1.35)

¹ Adjusted for sociodemographics (age at graduation, sex, migration background)

Table S2. Associations of medication use for mental disorders with entering paid employment among all secondary vocational education graduates (N = 1 004 395), and with exiting paid employment among secondary vocational education graduates (N = 866 545) who entered to paid employment, stratified by sex and migration background.

	Secondary vocational education							
	Antipsychotics				Anxiolytics			
	Among all graduates (N = 1 004 395)		Among graduates who entered paid employment (N = 866 545)		Among all graduates (N = 1 004 395)		Among graduates who entered paid employment (N = 866 545)	
	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Exit from paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Exit from paid employment HR (95% CI) ¹
Sex								
- Female	3 196 (0.7)	0.44 (0.42-0.46)	1 996 (0.5)	1.78 (1.66-1.90)	3 262 (0.7)	0.69 (0.66-0.71)	2 530 (0.6)	1.36 (1.27-1.44)
- Male	4 592 (0.9)	0.44 (0.43-0.46)	3 250 (0.7)	1.99 (1.88-2.09)	1 789 (0.3)	0.56 (0.53-0.59)	1 387 (0.3)	1.52 (1.39-1.65)
- Transgender	20 (3.1)	0.40 (0.22-0.76)	10 (2.1)	2.00 (0.82-4.94)	x	1.37 (0.57-3.32)	x	2.24 (0.71-7.05)
Migration background								
- Native Dutch	6 090 (0.8)	0.46 (0.44-0.47)	4 265 (0.6)	2.08 (1.99-2.18)	3 634 (0.5)	0.62 (0.60-0.64)	2 909 (0.4)	1.55 (1.46-1.65)
- Moroccan	178 (0.5)	0.40 (0.33-0.49)	99 (0.3)	1.40 (1.07-1.85)	211 (0.5)	0.65 (0.55-0.76)	144 (0.5)	1.27 (1.01-1.58)
- Turkish	171 (0.4)	0.40 (0.33-0.48)	104 (0.3)	1.66 (1.29-2.14)	247 (0.6)	0.79 (0.68-0.91)	192 (0.5)	1.31 (1.08-1.59)
- Antillean	360 (0.7)	0.36 (0.31-0.42)	187 (0.5)	1.37 (1.13-1.68)	287 (0.6)	0.72 (0.63-0.82)	205 (0.5)	1.07 (0.88-1.30)
- Other European	240 (0.9)	0.45 (0.39-0.53)	157 (0.7)	1.69 (1.35-2.12)	143 (0.6)	0.62 (0.52-0.75)	107 (0.5)	1.51 (1.14-2.00)
- Other non-European	769 (0.7)	0.48 (0.44-0.53)	444 (0.6)	1.42 (1.24-1.63)	535 (0.5)	0.70 (0.63-0.78)	265 (0.5)	1.10 (0.94-1.28)
	Hypnotics & sedatives				Antidepressants			
	Among all graduates (N = 1 004 395)		Among graduates who entered paid employment (N = 866 545)		Among all graduates (N = 1 004 395)		Among graduates who entered paid employment (N = 866 545)	
	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹
Sex								
- Female	1 346 (0.3)	0.57 (0.53-0.60)	942 (0.2)	1.41 (1.27-1.57)	14 345 (3.0)	0.73 (0.72-0.74)	11 729 (2.9)	1.35 (1.31-1.39)
- Male	840 (0.2)	0.53 (0.49-0.58)	619 (0.1)	1.91 (1.68-2.17)	6 106 (1.2)	0.65 (0.63-0.67)	5 041 (1.1)	1.64 (1.57-1.72)
- Transgender	x	1.45 (0.53-3.96)	x	-	47 (7.4)	0.78 (0.54-1.12)	33 (7.1)	1.07 (0.59-1.94)
Migration background								
- Native Dutch	1 534 (0.2)	0.53 (0.50-0.57)	1 130 (0.2)	1.80 (1.63-1.98)	16 628 (2.2)	0.70 (0.69-0.71)	13 952 (2.1)	1.50 (1.45-1.54)
- Moroccan	99 (0.3)	0.52 (0.40-0.66)	63 (0.2)	1.26 (0.89-1.78)	437 (1.1)	0.60 (0.54-0.67)	314 (1.0)	1.39 (1.19-1.61)
- Turkish	88 (0.2)	0.72 (0.56-0.92)	64 (0.2)	0.81 (0.53-1.23)	597 (1.3)	0.67 (0.61-0.74)	454 (1.3)	1.23 (1.08-1.40)
- Antillean	135 (0.3)	0.54 (0.44-0.67)	85 (0.2)	1.17 (0.86-1.60)	544 (1.1)	0.72 (0.65-0.79)	384 (1.0)	1.15 (0.99-1.33)
- Other European	55 (0.2)	0.50 (0.36-0.69)	35 (0.2)	1.36 (0.80-2.29)	564 (2.2)	0.72 (0.65-0.79)	447 (2.1)	1.33 (1.15-1.54)
- Other non-European	280 (0.3)	0.68 (0.59-0.78)	188 (0.2)	1.48 (1.20-1.83)	1 728 (1.7)	0.76 (0.72-0.80)	1 252 (1.6)	1.19 (1.09-1.29)
	Psychostimulants				Drugs for addiction			
	Among all graduates (N = 1 004 395)		Among graduates who entered paid employment (N = 866 545)		Among all graduates (N = 1 004 395)		Among graduates who entered paid employment (N = 866 545)	
	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹
Sex								
- Female	8 196 (1.7)	0.76 (0.74-0.78)	6 404 (1.6)	1.23 (1.18-1.28)	382 (0.1)	0.83 (0.75-0.93)	328 (0.1)	1.20 (0.99-1.46)
- Male	16 475 (3.1)	0.79 (0.78-0.81)	13 716 (3.0)	1.42 (1.37-1.46)	384 (0.1)	0.78 (0.70-0.86)	349 (0.1)	2.08 (1.76-2.47)
- Transgender	27 (4.2)	0.82 (0.52-1.30)	19 (4.1)	1.22 (0.62-2.41)	x	0.60 (0.15-2.40)	x	-
Migration background								
- Native Dutch	21 983 (3.0)	0.78 (0.76-0.79)	18 155 (2.7)	1.42 (1.38-1.46)	600 (0.1)	0.79 (0.73-0.86)	540 (0.1)	1.79 (1.54-2.07)
- Moroccan	262 (0.7)	0.66 (0.56-0.78)	153 (0.5)	1.27 (1.03-1.57)	15 (0.0)	0.60 (0.33-1.09)	11 (0.0)	0.63 (0.16-2.53)
- Turkish	239 (0.5)	0.77 (0.66-0.89)	171 (0.5)	1.17 (0.94-1.44)	27 (0.1)	0.90 (0.59-1.37)	22 (0.1)	1.16 (0.64-2.09)
- Antillean	506 (1.0)	0.80 (0.71-0.89)	331 (0.9)	1.00 (0.85-1.18)	33 (0.1)	0.87 (0.60-1.27)	28 (0.1)	1.36 (0.80-2.29)
- Other European	605 (2.4)	0.85 (0.78-0.93)	485 (2.2)	1.30 (1.12-1.49)	24 (0.1)	0.56 (0.36-0.88)	19 (0.1)	1.34 (0.64-2.82)
- Other non-European	1 103 (1.1)	1.00 (0.94-1.07)	844 (1.1)	0.98 (0.88-1.09)	70 (0.1)	1.14 (0.88-1.47)	59 (0.1)	1.07 (0.71-1.62)

¹ Adjusted for sociodemographics (age at graduation, sex, migration background)

^x Number of individuals below 10 were not showed in the table due to the risk of disclosure

Table S3. Associations of medication use for mental disorders with entering paid employment among all higher education graduates (N = 1 341 998), and with exiting paid employment among higher education graduates (N = 969 885) who entered to paid employment, stratified by sex and migration background.

	Higher education ¹							
	Antipsychotics				Anxiolytics			
	Among all graduates (N = 1 341 998)		Among graduates who entered paid employment (N = 969 885)		Among all graduates (N = 1 341 998)		Among graduates who entered paid employment (N = 969 885)	
	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Exit from paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹
Sex								
- Female	2 707 (0.4)	0.45 (0.43-0.47)	1 682 (0.3)	1.80 (1.66-1.95)	3 530 (0.5)	0.66 (0.64-0.69)	2 565 (0.5)	1.35 (1.26-1.44)
- Male	1 878 (0.3)	0.42 (0.39-0.44)	1 164 (0.3)	1.86 (1.69-2.05)	1 581 (0.3)	0.64 (0.60-0.67)	1 146 (0.3)	1.48 (1.34-1.64)
- Transgender	21 (3.4)	0.69 (0.39-1.24)	12 (3.6)	1.37 (0.53-3.49)	x	2.23 (0.98-5.07)	x	1.30 (0.18-9.39)
Migration background								
- Native Dutch	3 590 (0.4)	0.41 (0.40-0.43)	2253 (0.3)	1.92 (1.79-2.06)	3 814 (0.4)	0.61 (0.59-0.63)	2 808 (0.4)	1.46 (1.37-1.56)
- Moroccan	71 (0.3)	0.38 (0.28-0.50)	50 (0.3)	1.20 (0.74-1.97)	123 (0.5)	0.70 (0.58-0.86)	98 (0.5)	1.36 (0.98-1.89)
- Turkish	80 (0.3)	0.44 (0.33-0.59)	48 (0.2)	1.40 (0.88-2.22)	157 (0.6)	0.75 (0.63-0.90)	118 (0.6)	1.78 (1.38-2.30)
- Antillean	140 (0.4)	0.41 (0.33-0.51)	77 (0.3)	1.23 (0.84-1.80)	225 (0.6)	0.64 (0.55-0.75)	153 (0.5)	1.06 (0.81-1.40)
- Other European	186 (0.4)	0.45 (0.37-0.55)	110 (0.3)	1.24 (0.85-1.81)	205 (0.5)	0.67 (0.56-0.79)	138 (0.5)	1.33 (1.01-1.74)
- Other non-European	539 (0.2)	0.76 (0.68-0.85)	320 (0.3)	1.52 (1.12-2.06)	593 (0.3)	1.11 (1.01-1.23)	402 (0.3)	1.09 (0.92-1.29)
	Hypnotics & sedatives				Antidepressants			
	Among all graduates (N = 1 341 998)		Among graduates who entered paid employment (N = 969 885)		Among all graduates (N = 1 341 998)		Among graduates who entered paid employment (N = 969 885)	
	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹
Sex								
- Female	1 493 (0.2)	0.55 (0.51-0.58)	1 016 (0.2)	1.52 (1.37-1.70)	17 910 (2.4)	0.72 (0.70-0.73)	13 466 (2.5)	1.39 (1.35-1.44)
- Male	727 (0.1)	0.52 (0.48-0.57)	469 (0.1)	1.47 (1.24-1.75)	7 327 (1.2)	0.69 (0.67-0.71)	5 515 (1.3)	1.46 (1.39-1.53)
- Transgender	x	0.51 (0.19-1.37)	x	1.55 (0.21-11.23)	54 (8.8)	0.60 (0.39-0.91)	25 (7.4)	2.15 (1.16-3.97)
Migration background								
- Native Dutch	1 670 (0.2)	0.51 (0.48-0.54)	1 130 (0.1)	1.58 (1.42-1.75)	20 639 (2.1)	0.67 (0.66-0.68)	15 720 (2.1)	1.45 (1.41-1.49)
- Moroccan	52 (0.2)	0.41 (0.29-0.57)	34 (0.2)	1.26 (0.70-2.28)	367 (1.6)	0.53 (0.47-0.60)	263 (1.4)	1.31 (1.08-1.60)
- Turkish	72 (0.3)	0.53 (0.40-0.71)	46 (0.2)	1.60 (1.01-2.54)	440 (1.7)	0.66 (0.59-0.74)	312 (1.6)	1.40 (1.17-1.67)
- Antillean	104 (0.3)	0.51 (0.40-0.65)	66 (0.2)	1.28 (0.84-1.95)	590 (1.5)	0.72 (0.65-0.79)	432 (1.5)	1.28 (1.09-1.49)
- Other European	98 (0.2)	0.62 (0.48-0.78)	66 (0.2)	1.71 (1.18-2.48)	866 (2.1)	0.81 (0.75-0.88)	612 (2.2)	1.30 (1.14-1.49)
- Other non-European	231 (0.1)	0.93 (0.79-1.09)	147 (0.1)	1.19 (0.89-1.61)	2 389 (1.1)	1.16 (1.10-1.22)	1667 (1.4)	1.31 (1.21-1.42)
	Psychostimulants				Drugs for addiction			
	Among all graduates (N = 1 341 998)		Among graduates who entered paid employment (N = 969 885)		Among all graduates (N = 1 341 998)		Among graduates who entered paid employment (N = 969 885)	
	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹	Prevalence N (%)	Entrance to paid employment HR (95% CI) ¹
Sex								
- Female	11 212 (1.5)	0.67 (0.66-0.69)	7 172 (1.3)	1.38 (1.32-1.44)	236 (0.0)	0.77 (0.66-0.88)	193 (0.0)	1.39 (1.08-1.80)
- Male	12 418 (2.1)	0.69 (0.67-0.70)	7 876 (1.8)	1.42 (1.36-1.49)	200 (0.0)	0.79 (0.67-0.92)	152 (0.0)	1.66 (1.24-2.23)
- Transgender	30 (4.9)	0.83 (0.49-1.39)	15 (4.5)	0.91 (0.37-2.22)	x	10.02 (2.46-40.90)	x	1.25 (0.17-9.00)
Migration background								
- Native Dutch	19 876 (2.0)	0.65 (0.64-0.66)	12 716 (1.7)	1.45 (1.41-1.50)	328 (0.0)	0.72 (0.64-0.81)	263 (0.0)	1.63 (1.29-2.05)
- Moroccan	201 (0.9)	0.69 (0.58-0.82)	132 (0.7)	1.22 (0.90-1.65)	x	1.03 (0.49-2.16)	x	2.94 (1.10-7.84)
- Turkish	246 (1.0)	0.70 (0.59-0.81)	155 (0.8)	1.09 (0.81-1.48)	13 (0.1)	0.83 (0.45-1.55)	10 (0.1)	0.78 (0.25-2.43)
- Antillean	495 (1.3)	0.71 (0.64-0.80)	309 (1.0)	1.02 (0.82-1.26)	11 (0.0)	0.79 (0.40-1.58)	x	1.37 (0.44-4.25)
- Other European	810 (1.9)	0.80 (0.73-0.88)	503 (1.8)	1.14 (0.97-1.35)	17 (0.0)	0.55 (0.30-0.99)	11 (0.0)	2.37 (1.06-5.28)
- Other non-European	2 032 (0.9)	1.12 (1.06-1.18)	1248 (1.1)	1.29 (1.17-1.42)	62 (0.0)	1.40 (1.05-1.85)	48 (0.0)	1.01 (0.60-1.70)

¹ Adjusted for sociodemographics (age at graduation, sex, migration background)

^x Number of individuals below 10 were not showed in the table due to the risk of disclosure