

Table S1A Means and SD of Fractional Anisotropy (x1000) in Fiber Bundles		
Fiber Tract	EOS (n=34) M (SD)	EOS + CUD (n=21) M (SD)
L. cingulum	462 (38)	455 (31)
R. cingulum	443 (26)	448 (28)
L. superior longitudinal fasciculus	464 (23)	464 (25)
R. superior longitudinal fasciculus	466 (23)	465 (34)
L. corticospinal	583 (30)	579 (27)
R. corticospinal	577 (26)	574 (27)
L. inferior longitudinal fasciculus	462 (23)	465 (30)
R. inferior longitudinal fasciculus	470 (24)	478 (32)
L. inferior fronto-occipital fasciculus	514 (24)	512 (29)
R. inferior fronto-occipital fasciculus	526 (26)	520 (35)
L. uncinate	387 (21)	378 (24)
R. uncinate	413 (27)	407 (29)

Note: Multivariate tests (Wilk's lambda): Wide Range Achievement Test score³²: F=1.01, $p=.46$; Sex: F=.48, $p=.91$; Age: F=1.37, $p=.22$; Positive urine analysis for cannabis: F=.54, $p=.88$. CHR=clinical high-risk for schizophrenia; EOS=early-onset schizophrenia, with and without comorbid cannabis use disorder (CUD); HC=healthy controls; L=left; R=right.

Table S1B Means and SD of Fractional Anisotropy (x1000) in Fiber Bundles, Excluding Individuals With a Comorbid Cannabis Use Disorder (CUD)

	HC (n=55) M (SD)	CUD (n=31) M (SD)	CHR (n=20) M (SD)	EOS (n=34) M (SD)	F (df=3, 141)
Fiber Tract					
L. cingulum	456 (34)	480 (29)	458 (39)	463 (38)	
R. cingulum	441 (32)	451 (30)	439 (34)	444 (25)	
L. superior longitudinal fasciculus	468 (29)	468 (22)	458 (22)	464 (23)	
R. superior longitudinal fasciculus	472 (32)	470 (29)	462 (30)	466 (23)	
L. corticospinal	599 (24)	599 (25)	582 (25) ^{a,b}	582 (29) ^{a,b}	4.48**
R. corticospinal	590 (23)	587 (19)	570 (29) ^{a,b}	577 (26) ^a	5.46**
L. inferior longitudinal fasciculus	480 (24)	474 (24)	463 (27) ^a	462 (23) ^{a,b}	4.69**
R. inferior longitudinal fasciculus	486 (30)	476 (26)	477 (24)	470 (23)	
L. inferior fronto-occipital fasciculus	529 (25)	522 (22)	511 (23) ^a	514 (24) ^a	5.10**
R. inferior fronto-occipital fasciculus	534 (22)	530 (23)	523 (25)	526 (29)	
L. uncinate	382 (36)	383 (30)	377 (24)	388 (20)	
R. uncinate	410 (26)	415 (28)	406 (29)	413 (26)	

Note: Multivariate tests (Wilk's lambda): Wide Range Achievement Test score³²: $F=1.32, p=.22$; Sex: $F=1.06, p=.40$; Age: $F=1.38, p=.18$, Positive urine analysis for cannabis: $F=.89, p=.56$. CHR=clinical high-risk for schizophrenia; EOS=early-onset schizophrenia, with and without comorbid CUD; L=left; R=right.

^aSignificant difference from healthy controls (HC): $p < .05$.

^bSignificant difference from CUD: $p < .05$.

** $p < .01$

Table S1C Means and SD of Fractional Anisotropy (x1000) in Fiber Bundles Excluding Cannabis Use Disorder (CUD) Individuals Taking Antipsychotic Drugs

	HC (n=55) M (SD)	CUD (n=25) M (SD)	CHR (n=21) M (SD)	EOS (n=55) M (SD)	F (df=3, 162)
Fiber Tract					
L. cingulum	456 (34)	482 (32)	458 (38)	459 (35)	
R. cingulum	441 (32)	453 (32)	438 (34)	445 (26)	
L. superior longitudinal fasciculus	468 (29)	467 (23)	458 (21)	464 (23)	
R. superior longitudinal fasciculus	472 (32)	466 (31)	462 (29)	466 (27)	
L. corticospinal	599 (24)	598 (26)	583 (25) ^a	581 (29) ^{a,b}	5.25**
R. corticospinal	590 (23)	587 (21)	570 (28) ^{a,b}	576 (26) ^a	5.88**
L. inferior longitudinal fasciculus	480 (24)	476 (25)	462 (27) ^a	463 (26) ^{a,b}	4.47**
R. inferior longitudinal fasciculus	486 (30)	476 (28)	476 (24)	473 (27)	
L. inferior fronto-occipital fasciculus	529 (25)	522 (23)	511 (23) ^a	513 (26) ^a	5.52**
R. inferior fronto-occipital fasciculus	534 (22)	532 (24)	523 (24)	524 (29)	
L. uncinate	382 (36)	386 (31)	376 (24)	384 (22)	
R. uncinate	410 (26)	415 (29)	405 (29)	411 (28)	

Note: Multivariate tests (Wilk's lambda): Wide Range Achievement Test score [ENREF 1](#)³²: F=1.22, p=.21; Sex: F=1.05, p=.41; Age: F=1.33, p=.21, Positive urine analysis for cannabis: F=1.15, p=.32. CHR=clinical high-risk for schizophrenia; EOS=early-onset schizophrenia, with and without comorbid CUD; L=left; R = right.

^aSignificant difference from healthy controls (HC): $p < .05$.

^bSignificant difference from CUD: $p < .05$.

** $p < .01$

Table S1D Means and SD of Fractional Anisotropy (x1000) in Fiber Bundles Including Lifetime Antipsychotic Exposure as a Covariate.

	HC (n=55) M (SD)	CUD (n=25) M (SD)	CHR (n=21) M (SD)	EOS (n=55) M (SD)	F (df=3, 153)
Fiber Tract					
L. corticospinal	599 (24)	599 (25)	583 (25) ^{a,b}	581 (29) ^{a,b}	4.33**
R. corticospinal	590 (23)	587 (19)	570 (28) ^{a,b}	576 (26) ^{a,b}	4.75**
L. inferior longitudinal fasciculus	480 (24)	474 (24)	462 (27) ^a	463 (26) ^a	3.91*
L. inferior fronto-occipital fasciculus	529 (25)	522 (22)	511 (23) ^a	513 (26) ^a	4.60**

Note: Multivariate tests (Wilk's lambda): Lifetime antipsychotic exposure in chlorpromazine equivalents²⁵: $F=.36$, $p=.836$;

Wide Range Achievement Test score [ENREF 1](#)³²: $F=1.26$, $p=.29$; Sex: $F=1.70$, $p=.16$; Age: $F=1.06$, $p=.38$; Positive urine analysis for cannabis: $F=1.05$, $p=.38$. CHR=clinical high-risk for schizophrenia; EOS=early-onset schizophrenia, with and without comorbid cannabis use disorder (CUD); L=left; R=right.

^aSignificant difference from healthy controls (HC): $p<.05$.

^bSignificant difference from CUD: $p<.05$.

* $p<.05$; ** $p<.01$