Evidensprofiler PICO 2-10: NKR for behandling af patienter med skizofreni og komplekse behandlingsforløb

Evidensprofiler PICO 2: Reduktion af clozapin-dosis ved plasmakoncentration over den øvre grænse i det vejledende terapeutiske interval.

Tabel 1: Depotinjektion af antipsykotiske lægemidler, RCT'er.

Question: PICO 1 Should Long-Acting Injectable antipsychotics versus oral antipsychotics be used for schizophrenia?

Bibliography: Update of Kishomoto 2014

			Quality asses	ssment			No of patients			Effect		
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Long-Acting Injectable antipsychotics versus oral antipsychotics	Control	Relative (95% CI)	Absolute	Quality	Importance
Relapse (longest time	point, at least	6 months)					•				
21	randomised trials	serious ¹	serious ²		serious ⁴	none	645/2752 (23.4%)	730/2577 (28.3%)	RR 0.93 (0.79 to 1.1)	20 fewer per 1000 (from 59 fewer to 28 more)	⊕000 VERY LOW	CRITICAL
Hospitaliz			ation within study		east 6 months)							
10	randomised trials	serious	no serious inconsistency		no serious imprecision	none	243/1187 (20.5%)	310/1203 (25.8%)	RR 0.87 (0.7 to 1.08)	33 fewer per 1000 (from 77 fewer to 21 more)	⊕⊕OO LOW	IMPORTANT
All-cause	discontinuat	ion										
19	randomised trials	serious ¹	no serious inconsistency	serious ³	no serious imprecision	none	990/2564 (38.6%)	999/2414 (41.4%)	RR 0.97 (0.87 to 1.08)	12 fewer per 1000 (from 54 fewer to 33 more)	⊕⊕OO LOW	IMPORTANT
Mortality												
8	randomised trials	serious ¹	no serious inconsistency	serious ³	serious ⁴	none	10/2297 (0.44%)	18/2005 (0.9%)	RR 0.6 (0.28 to 1.3)	4 fewer per 1000 (from 6 fewer to 3 more)	⊕000 VERY LOW	IMPORTANT
Quality of	life - Heinric	hs-Carpenter	Quality of Life Sc	ale (QLS) (Bet	tter indicated by	y lower values)		•				
2	randomised trials	serious ¹	no serious inconsistency	serious ³	serious ⁴	none	454	452	-	SMD 0.64 lower (1.99 lower to 0.72 higher)	⊕000 VERY LOW	IMPORTANT
Injection	site adverse e	events	•	•	•							
2	randomised trials	serious ¹	no serious inconsistency	serious ³	serious ⁴	none	37/529 (7%)	6/526 (1.1%)	RR 7.8 (0.68 to 89.73)	78 more per 1000 (from 4 fewer to 1000 more)	⊕000 VERY LOW	IMPORTANT
Discontin	uation due to	adverse ever										
18	randomised trials	serious ¹	serious ⁵	serious ³	serious ⁴	none	91/2456 (3.7%)	75/2293 (3.3%)	RR 1.06 (0.78 to 1.45)	2 more per 1000 (from 7 fewer to 15 more)	⊕OOO VERY LOW	IMPORTANT
Number o	f violent epis	odes per mor	nth during the stu	dy (Better ind	icated by lower	values)						
1	randomised trials	no serious risk of bias	no serious inconsistency		serious ⁶	none	26	20	-	MD 1.19 lower (1.84 to 0.54 lower)	⊕⊕OO LOW	IMPORTANT
Criminal I	oehaviour - n	ot reported										
0	-	-	-	-	-	none	-	-	-	-		

¹ Many studies with unclear randomization sequence generation and allocation concealment and/or high risk of performance/detection bias

² Studies before 2005 report positive findings compared with studies after 2005, but even in studies after 2005 there is some inconsistency between results

³ RCTs included in general patients that are more compliant and with less illness severity than the clinical population of patients with schizophrenia. This pose a special problem when investigating LAIs because the patient population that should have been included in the studies, i.e. patients with poor treatment adherence, are not investigated. As such the results have poor generalizability to the clinical population of patients with schizophrenia that is in question for use of LAI antipsychotics

⁴ Either end of the CI would yield a different result

⁵ Inconsistent results across included studies

⁶ Only 1 study

Tabel 2: Depotinjektion af antipsykotiske lægemidler, mirror-image studier

Question: Should antipsychotic LAI be used in schizophrenia?

Settings: PICO 2_mirror-image studies

Bibliography: Data from Kishimoto et al. 2013: Meta-analysis of mirror-image studies

			Quality a	ssessment			No of patie	nts		Effect	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Antipsychotic LAI	Control	Relative (95% CI)	Absolute		
Risk of hos	pitalization (follo	w-up 12 mc	onths)									
	observational studies	very serious ¹		no serious indirectness	no serious imprecision	strong association ³	-	0%	RR 0.430 (0.35 to 0.527)	-	⊕000 VERY LOW	IMPORTANT
Number of	hospitalizations (Better indic	cated by lower	values)								
-	observational studies	very serious ¹		no serious indirectness	no serious imprecision	strong association ⁴	0	-	-	RR 0.381 higher (0.238 to 0.512 higher)	⊕000 VERY LOW	IMPORTANT

Mirror-image studies are associated with risk of bias, i.e., expectation bias, regression to the mean, all studies investigated switch from oral to LAI, selection bias, change in health policies etc.

Tabel 3: Depotinjektion af antipsykotiske lægemidler, kohorte studier

Question: Should Long-Acting Injectable antipsychotics vs oral antipsychotics be used for Schizophrenia?

Settings: PICO 2_cohort studies

Jettings. 1	FICO Z_CONORT Stu	aico										
			Quality ass	essment			No of patier	nts	Effect	t	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Long-Acting Injectable antipsychotics	Oral antipsychotics	Relative (95% CI)	Absolute		
All cause of	discontinuation											
	observational studies	, ,	no serious inconsistency	no serious indirectness	no serious imprecision	strong association		0%	HR 0.41 (0.27 to 0.61) ²		⊕OOO VERY LOW	IMPORTANT
Rehospita	lization											
	observational studies	, ,	no serious inconsistency	no serious indirectness	no serious imprecision	strong association		0%	HR 0.36 (0.17 to 0.75) ²		⊕000 VERY LOW	IMPORTANT

¹ Observational study, no randomisation

² Estimates for individual studies differ (not all CIs overlap)

³ RR = 0.43 for rehospitalization

⁴ RR = 0.381 for number of hospitalizations

² adjusted by: age at diagnosis, sex, duration of first hospital episode, and current and previous use of anxiolytics, hypnotics and sedatives, antidepressants, drugs used in addictive disorders, analgesics, antiparkinsonian drugs, blood glucose-lowering drugs, lipid-modifying agents, previous use of antipsychotics, during the follow-up and the choice of initial antipsychotic (serving as a surrogate for the patient's clinical status at baseline and thus reflecting the clinical correlates determining the selection of treatment).

Evidensprofiler PICO 3: Tillægsbehandling med SSRI/SNRI

Tabel 4: Tillægsbehandling med SSRI

Question: PICO 3 Should Antidepressants (SSRI) be used in schizophrenia? **Settings:** mostly outpatients without concomitant depression

			Quality asse	essment			No of patien	ts		Effect	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Antidepressants (SSRI)	Control	Relative (95% CI)	Absolute	Quanty	importance
Negative s	symptoms (PA	NSS, SANS, B	PRS), end of treat	ment (duration 4	weeks to 6 month	ns) (Better indicate	d by lower values)					
14	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	reporting bias ²	281	284	-	SMD 0.31 lower (0.51 to 0.10 lower)	⊕⊕OO LOW	CRITICAL
Positive s	ymptoms (PAI	NSS, SAPS, BI	PRS), end of treatm	nent (duration 4 w	eeks to 6 month	(Better indicated	by lower values)	·				
12	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	245	247	-	SMD 0.07 lower (0.25 lower to 0.11 higher)	⊕⊕⊕O MODERATE	IMPORTANT
All-cause	discontinuatio	on (study dura	tion: 4 weeks to 6	months)								
11	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ³	reporting bias ²	43/235 (18.3%)	29/238 (12.2%)	RR 1.38 (0.88 to 2.16)	46 more per 1000 (from 15 fewer to 141 more)	⊕000 VERY LOW	IMPORTANT
Neurologi	cal side effect	s, end of treat	ment (higher=wors	e) (Better indicat	ed by lower value	es)						
8	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	168	168	-	SMD 0.02 lower (0.32 lower to 0.28 higher)	⊕⊕⊕O MODERATE	IMPORTANT
Agitation,	end of treatme	ent (number o	f events)	•	•							
1		no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁴	none	1/13 (7.7%)	4/13 (30.8%)	RR 0.19 (0.02 to 1.98)	249 fewer per 1000 (from 302 fewer to 302 more)	⊕⊕OO LOW	IMPORTANT
QoL (QLS	scale), end of	intervention (Better indicated by	y higher values)	•							
1		no serious risk of bias	no serious inconsistency	no serious indirectness	serious ⁴	none	23	24	-	SMD 6.3 lower (17.22 lower to 4.62 higher)	⊕⊕⊕O MODERATE	IMPORTANT
Negative s	symptoms, lon	gest follow-up	o - not reported⁵									
O ⁵	-	-	-	-	-	none	0	-	-	-		IMPORTANT
Suicide/se	erious attempt	- not reported	6									
0 ⁶	-	-	-	-	-	none	-	-	-	-		IMPORTANT

¹ Considerable number of risk-of-bias assessment judged 'unclear'
² Asymmetric funnel plot
³ different ends of CI yields different conclusions
⁴ small sample size
⁵ No studies estimated outcome at longer follow-up than 6 months
⁶ Suicide or suicide attempt was not mentioned in any of the studies

Tabel 5: Tillægsbehandling med SNRI

Question: PICO 3 Should Antidepressants (SNRI) be used in schizophrenia? **Settings:** mostly outpatients without concomitant depression

			Quality asse	essment			No of patient	s		Effect	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Antidepressants (SNRI)	Control	Relative (95% CI)	Absolute	Quanty	Importance
Negative s	ymptoms (PAI	NSS), end c	of treatment (duration	on 4 weeks to 6 mc	onths) (Better	indicated by lower v	/alues)					
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ^{2,3}	none	20	20	-	SMD 1.38 lower (2.07 to 0.68 lower)	⊕000 VERY LOW	CRITICAL
Positive sy	mptoms (PAN	ISS), end o	f treatment (duratio	n 4 weeks to 6 mo	nth) (Better in	dicated by lower va	lues)					
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ^{2,3,4}	none	20	20	-	SMD 0.00 higher (0.62 lower to 0.62 higher)	⊕000 VERY LOW	IMPORTANT
All-cause of	discontinuation	n (study du	ration: 4 weeks to 6	months)								
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ^{2,3,4}	none	3/20 (15%)	4/20 (20%)	RR 0.75 (0.19 to 2.93)	50 fewer per 1000 (from 162 fewer to 386 more)	⊕OOO VERY LOW	IMPORTANT
Neurologic	cal side effects	, end of tre	eatment (higher=wo	rse) - not reported	•	•						
0	-	-	-	-	-	none	•	-	-	-		IMPORTANT
Agitation,	end of treatme	nt (numbe	r of events) - not rep	orted								
0	-	-	-	-	-	none	-	-	-	-		IMPORTANT
QoL (QLS	scale), end of	interventio	n - not reported									
0	-	-	-	-	-	none	-	-	-	-		IMPORTANT
Negative s	ymptoms, long	gest follow	-up - not reported									
0	-	-	-	-	-	none	-	-	-	-		IMPORTANT
Suicide/se	rious attempt	not report	ted									
0	-	-	-	-	-	none	•	-	-	-		IMPORTANT

¹ Risk of performance bias (not sufficient blinding)
² small sample size
³ Only one study
⁴ different ends of CI yields different conclusions

Evidensprofil PICO 4: Ophør med antipsykotisk behandling

Tabel 6: Vedligeholdelsesbehandling med antipsykotiske lægemidler, ikke-remitterede patienter

Question: PICO 4 Should Maintenance AP drug treatment be used for non-remitted schizophrenia patients?

Settings: Outpatients

			Quality assess	ment			No of patients			Effect	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Maintenance AP drug treatment	Control	Relative (95% CI)	Absolute		
Relapse u	p to 3 months											
10	randomised trials	serious ¹	no serious inconsistency	serious ²	no serious imprecision	none	142/943 (15.1%)	266/794 (33.5%)	RR 0.44 (0.37 to 0.53)	188 fewer per 1000 (from 157 fewer to 211 fewer)	⊕⊕OO LOW	CRITICAL
Relapse fr	om 7 months to											
18	randomised trials	serious ^{1,3}	no serious inconsistency	serious ²	no serious imprecision	none	351/1621 (21.7%)	782/1417 (55.2%)	RR 0.38 (0.32 to 0.46)	342 fewer per 1000 (from 298 fewer to 375 fewer)	⊕⊕OO LOW	CRITICAL
Number of	f participants hos	spitalized (> 7	months)									
8	randomised strials	serious ¹	no serious inconsistency	serious ²	no serious imprecision	none	103/718 (14.3%)	195/684 (28.5%)	RR 0.51 (0.4 to 0.66)	140 fewer per 1000 (from 97 fewer to 171 fewer)	⊕⊕OO LOW	CRITICAL
Adverse e	ffects: weight ga	in >= 7% (7 to	12 months)									
4	randomised trials	serious ³	no serious inconsistency		no serious imprecision	none	47/573 (8.2%)	17/572 (3%)	RR 2.83 (1.29 to 6.2)	54 more per 1000 (from 9 more to 155 more)	⊕⊕OO LOW	IMPORTANT
Adverse e			ent (7 to 12 months	•								
6	randomised trials	serious ⁴	no serious inconsistency	serious ²	serious ⁵	none	509/1049 (48.5%)	340/777 (43.8%)	RR 0.97 (0.88 to 1.06)	13 fewer per 1000 (from 53 fewer to 26 more)	⊕OOO VERY LOW	IMPORTANT
Leaving th	ne study early du	e to adverse e	vents (> 7 months)		•						
11	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ⁵	none	39/1031 (3.8%)	27/751 (3.6%)	RR 0.76 (0.46 to 1.26)	9 fewer per 1000 (from 19 fewer to 9 more)	⊕OOO VERY LOW	IMPORTANT
Suicide (7	to 12 months)			•		•	•					
4		no serious risk of bias	no serious inconsistency	serious ²	serious ⁵	none	0/600 (0%)	1/455 (0.22%)	RR 0.32 (0.01 to 7.86)	1 fewer per 1000 (from 2 fewer to 15 more)	⊕⊕OO LOW	IMPORTANT
Suicide at	tempt			-			<u>, </u>					
2	randomised trials	serious ⁶	no serious inconsistency	serious ²	serious ⁵	none	1/374 (0.27%)	1/236 (0.42%)	RR 0.7 (0.07 to 6.65)	1 fewer per 1000 (from 4 fewer to 24 more)	⊕000 VERY LOW	IMPORTANT
Quality of	life (7 to 12 mont	ths) (measured	d with: Schizophre	nia Quality-of	-Life Scale; Bett	er indicated by low	ver values)					
1	randomised trials	serious ⁷	no serious inconsistency	serious ⁸	serious ³	none	104	101	-	SMD 0.01 lower (0.29 lower to 0.26 higher)	⊕000 VERY LOW	IMPORTANT
Functionin	ng (measured wit	h: GAF or PSF	; Better indicated	by higher val	ues)							
2	randomised trials	serious ⁹	no serious inconsistency	serious ²	serious ⁵	none	175	171	-	SMD 0.12 higher (0.46 lower to 0.7 higher)	⊕000 VERY LOW	IMPORTANT

2	randomised trials	no serious inconsistency	no serious imprecision	none	8/146 (5.5%)	27/142 (19%)	RR 0.3 (0.15 to 0.6)	133 fewer per 1000 (from 76 fewer to 162 fewer)	⊕⊕OO LOW	IMPORTANT
Coercion										
0	No evidence available			none	-	-	-	-		IMPORTANT

[|] available | avai

Evidensprofil PICO 5: Familieintervention

Tabel 7: Familieintervention til patienter med skizofreni og betydelig funktionsnedsættelse

Question: PICO 5 Should family intervention vs TAU be used in Schizophrenia?

			Quality asse	essment			No of patien	nts		Effect	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Familyintervention	TAU	Relative (95% CI)	Absolute		
Family bu	ırden, end of t		sured with: FBIS, S	BAS, Family Bur	den; Better indic	ated by lower valu	es)		•		•	
8	randomised trials	serious ^{1,2,3}	serious ⁴	no serious indirectness	no serious imprecision	none	195	191	-	SMD 0.56 lower (1.13 to 0.01 lower)	⊕⊕OO LOW	CRITICAL
Clinical r	elapse, end of	treatment			•				•		•	
34	randomised trials	very serious ^{1,2,3,5,6}	no serious inconsistency	no serious indirectness	no serious imprecision	reporting bias ⁷	287/1377 (20.8%)	522/1383 (37.7%)	RR 0.55 (0.47 to 0.65)	170 fewer per 1000 (from 132 fewer to 200 fewer)	⊕000 VERY LOW	CRITICAL
Clinical r	elapse, longes											
11	randomised trials	serious ^{1,2,3,6}	no serious inconsistency	no serious indirectness	no serious imprecision	none	140/334 (41.9%)	146/300 (48.7%)	RR 0.77 (0.6 to 0.98)	112 fewer per 1000 (from 10 fewer to 195 fewer)	⊕⊕⊕O MODERATE	IMPORTANT
Days at h	ospital, end of	treatment (Be	tter indicated by lo	wer values)								
8	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	269	264	-	MD 3.2 lower (4.54 to 1.86 lower)	⊕⊕⊕O MODERATE	IMPORTANT
Carer sat	isfaction, end	of treatment (n	neasured with: SSC	Q6, VSSS, modifie	ed Patient Satisfa	ction Questionnai	re; Better indicated	by highe	r values)			•
4	randomised trials	serious ^{1,2,6}	no serious inconsistency	no serious indirectness	no serious imprecision	none	139	136	-	SMD 0.34 higher (0.63 to 0.05 higher)	⊕⊕⊕O MODERATE	IMPORTANT
QoL (high	her=better), en		(measured with: fir	nal scores, chang	je scores; Better	indicated by highe	er values)	!	!			•
2	randomised trials	serious ^{1,2,3,6}	no serious inconsistency	no serious indirectness	no serious imprecision	none	129	134	-	SMD 0.5 higher (0.75 to 0.25 higher)	⊕⊕⊕O MODERATE	IMPORTANT
Social fu	nctioning, end		neasured with: SF	S, SLFS, SOFAS.	SDSS, HoNOS; E	Better indicated by	lower values)					
10	randomised trials	serious ^{1,2,3}	serious ⁴	no serious indirectness	no serious imprecision	none	392	380	-	SMD 0.42 lower (0.70 to 0.15 lower)	⊕⊕OO LOW	IMPORTANT
Crime (in	nprisonment),	longest FU	•	•	•							
1	randomised trials	serious ^{1,2,3,6}	no serious inconsistency	no serious indirectness	serious ⁸	none	3/20 (15%)	3/19 (15.8%)	RR 0.95 (0.22 to 4.14)	8 fewer per 1000 (from 123 fewer to 496 more)	⊕⊕OO LOW	IMPORTANT
Family bu	urden, longest	FU - not repor	ted								_	
0	- selection bias	-	-	-	-	none	0	-	-	-		IMPORTANT

Risk of selection bias

Risk of selection bias

Risk of performance bias

Risk of detection bias

High heterogeneity among studies

Risk of attrition bias

Risk of reporting bias

Funnel plot suggests risk of publication bias

Solution bias

Cl could be in favour of both intervention and control

Evidensprofil PICO 6: Neurokognitiv træning

Tabel 8: Neurokognitiv træning til patienter med skizofreni og betydelig funktionsnedsættelse

Question: PICO 8 Should Cognitive remediation versus TAU be used in schizofrenia?

			Quality as	sessment			No of patients	;		Effect		
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cognitive remediation		Relative (95% CI)	Absolute	Quality	Importance
Global cog	nition score (Z	score), end	of treatment (Better	indicated by higher	r values)	I						<u> </u>
2	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	serious ³	none	63	55	-	SMD 0.28 higher (0.7 lower to 0.13 higher)	⊕⊕OO LOW	CRITICAL
Social func	tioning, end of	treatment (measured with: SBS	, SFS, SSSI, WHOD	AS, SOFAS; Better	indicated by higher	r values)	*				
6	randomised trials	serious ^{1,2}	serious ⁴	no serious indirectness	no serious imprecision	none	236	243	-	SMD 0.56 higher (0.16 to 0.96 higher)	⊕⊕OO LOW	IMPORTAN'
Social func	tioning, longes	st FU (meas	ured with: SBS, SFS	, SoFAS; Better ind	icated by higher va	lues)						
4	randomised trials	serious ^{1,2,5}	no serious inconsistency	no serious indirectness	serious ³	none	130	131	-	SMD 0.26 higher (0.01 to 0.51 higher)	⊕⊕OO LOW	IMPORTAN1
Working m	emory, end of t	reatment (n	neasured with: ANS,	ACT, BACS, WAIS,	WAIS II, WAIS III, V	NAIS-R ; Better indi	cated by higher val	ues)				
9	randomised trials	serious ^{1,2,5}	serious ⁴	no serious indirectness	no serious imprecision	none	302	272	-	SMD 0.66 higher (0.27 to 1.04 higher)	⊕⊕OO LOW	IMPORTAN1
Verbal lear	ning and memo		nd of treatment (mea	sured with: HVLT, I	RAVLT; Better indi	cated by higher valu	ies)					
2	randomised trials	serious ^{2,5,6}	serious ⁴	no serious indirectness	no serious imprecision	none	53	44	-	SMD 0.5 higher (1.37 lower to 2.37 higher)	⊕⊕OO LOW	IMPORTANT
Verbal lear	ning, end of tre	atment (me	asured with: RAVLT	CVLT, WLM, WMS	ST, HVLT; Better i	ndicated by higher v	/alues)	*				•
6	randomised trials	serious ^{1,2}	serious ⁴	no serious indirectness	serious ³	none	172	158	-	SMD 0.23 higher (0.09 to 0.55 higher)	⊕000 VERY LOW	IMPORTANT
Verbal men	nory, end of tre	atment (me	asured with: CVLT, I	HVLT, RAVLT, Cogr	istat, Groebe DfR1	6, BACS, WMS-LT,	HVLT-R; Better ind	icate	d by higi	her values)		
10	randomised trials	serious ^{1,2,5}	serious ⁴	no serious indirectness	no serious imprecision	none	323	255	-	SMD 0.34 higher (0.04 lower to 0.71 higher)	⊕⊕OO LOW	IMPORTANT
Symptoms,			ed with: PANSS, BP	RS; Better indicated	d by lower values)							
6	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	185	182	ı	SMD 0.12 lower (0.32 lower to 0.08 higher)	⊕⊕⊕O MODERATE	IMPORTANT
QoL, end o	f treatment (me		n: QOLI, OLS, SQoL;	Better indicated by	higher values)							
4	randomised trials	serious ^{1,2,5}	serious ⁴	no serious indirectness	serious ³	none	139	118	-	SMD 0.85 higher (0.34 lower to 2.03 higher)	⊕000 VERY LOW	IMPORTAN1
Days at hos	spital - not repo	orted										
2 Risk of per	lection bias	- 		-	-	none	0	-	-	-		IMPORTAN
⁴ Considera ⁵ Risk of attı	ble inconsistence	y between s	vention and control tudies									

Evidensprofil PICO 7: Socialkognitiv træning

Tabel 9: Socialkognitiv træning til patienter med skizofreni og betydelig funktionsnedsættelse

Question: PICO 9 Should Social cognition vs TAU be used in Schizophrenia?

Question:	PICO 9 Should So	ocialcognition	n vs TAU be used in	Schizophrenia?								
			Quality asso	essment			No of patie	nts		Effect	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Socialcognition	TAU	Relative (95% CI)	Absolute		
Theory of				inting task, Attribι	ution of intentions	s ¹ ; Better indicated	by higher values	s)				
3	randomised trials	serious ^{2,3,4,5}	serious ⁶	no serious indirectness	no serious imprecision	none	67	59	-	SMD 0.29 higher (0.4 lower to 0.98 higher)	⊕⊕OO LOW	CRITICAL
Theory of	, ,	•	o) (measured with	: Eyes task, hintin	g task; Better ind	icated by higher va	,					
2	randomised trials	serious ^{2,3,5}	serious ⁶	no serious indirectness	no serious imprecision	none	52	47	-	SMD 0.45 higher (0.67 lower to 1.57 higher)	⊕⊕OO LOW	IMPORTANT
Emotion p				end of treatment (measured with: P	PFA, ERT, POFA, Er	notion discrimina	ation tas	sk; Better indic	ated by higher values)		
5	trials		no serious inconsistency	no serious indirectness	no serious imprecision	none	95	83	-	SMD 0.81 higher (0.5 to 1.12 higher)	⊕⊕⊕O MODERATE	CRITICAL
Emotion p			on, longest FU (me	asured with: FEIT;		by higher values)						
1	trials	serious ^{3,5}	no serious inconsistency	no serious indirectness	serious ⁷	none	22	17	-	MD 2.65 higher (0.78 to 4.52 higher)	⊕⊕OO LOW	IMPORTANT
Social fun			sured with: SFS, V	SSS, GSFS, Whod	as21; Better indic	ated by lower value						
4	trials	serious ^{2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	87	91	-	SMD 0.02 higher (0.27 lower to 0.32 higher)	⊕⊕⊕O MODERATE	IMPORTANT
Social fun	ction Longest FU	l (min 4-6 m	o) (measured with:	SFS, VSSS, GSFS	S, PSP; Better ind	icated by higher va	lues)					
4	randomised trials	serious ^{2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	100	100	-	SMD 0.54 higher (0.04 to 1.04 higher)	⊕⊕⊕O MODERATE	IMPORTANT
Social per			easured with: EPS	TASIT; Better ind	licated by higher	values)						
2	randomised trials	serious ^{2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	39	38	-	MD 0.4 higher (3.17 lower to 3.96 higher)	⊕⊕⊕O MODERATE	IMPORTANT
Social per	ception, longest	FU (measure	ed with: TASIT; Be	tter indicated by h	igher values)							
1	randomised trials	serious ^{2,3,4}	no serious inconsistency	no serious indirectness	serious ⁷	none	30	30	-	SMD 0 higher (0.51 lower to 0.5 higher)	⊕⊕OO LOW	IMPORTANT
Symptoma	itic relapse											
3	randomised trials		no serious inconsistency	no serious indirectness	serious ⁸	none		28/108 (25.9%)	RR 0.75 (0.45 to 1.24)	65 fewer per 1000 (from 143 fewer to 62 more)	⊕⊕OO LOW	IMPORTANT
Symptoms			d with: PANNS, BP	RS; Better indicat	ed by lower value	es)						
6	randomised trials	serious ^{2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	134	132	-	SMD 0.08 lower (0.39 lower to 0.22 higher)	⊕⊕⊕O MODERATE	IMPORTANT
QoL Menta			easured with: SF-	6, WHOQoL; Bett	er indicated by hi	gher values)						
2	randomised trials	serious ^{2,3,4}	serious ⁶	no serious indirectness	serious ⁸	none	33	36	-	SMD 0.89 higher (0.56 lower to 2.33 higher)	⊕000 VERY LOW	IMPORTANT
QoL (socia	al), end of treatm	ent (measur	ed with: SF-36, WH	IOQoL; Better indi	cated by higher v	values)						
2	randomised trials	serious ^{2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	52	49	-	SMD 0.24 higher (0.15 lower to 0.64 higher)	⊕⊕⊕O MODERATE	IMPORTANT
QLS, wellb	eing (Better indi	cated by hig	jher values)									

2	randomised trials		serious ⁶	no serious indirectness	serious ⁸	none	36	36	-	MD 2.6 higher (5.8 lower to 11 higher)	IMPORTANT
Sympto	matic remitted									•	
0	No evidence available					none	-	0%	not pooled	not pooled	
Days at	hospital (Better in	dicated by I	ower values)					•			•
0	No evidence available					none	0	-	-	not pooled	
² Risk of ³ Risk of ⁴ Risk of ⁵ Risk of ⁶ Conside ⁷ Small s	reversed selection bias performance bias detection bias reporting bias erable inconsistenc ample size could be in favour			AU							

Evidensprofil PICO 8: Kognitiv adfærdsterapi

Tabel 10: Kognitiv adfærdsterapi til patienter med skizofreni og betydelig funktionsnedsættelse

Question: PICO 8 Should CBT vs TAU be used in Schizophrenia?

			Quality as	sessment			No of	oatients		Effect	Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	СВТ	TAU	Relative (95% CI)	Absolute	Quality	importance
Psychotic :	symptoms, end	d of treatme	nt (measured with: P	ANSS positive, SA	PS, BPRS positive	; Better indicated by	y lower v	values)			•	•
14	randomised trials	serious ^{1,2}	no serious inconsistency ³	no serious indirectness	no serious imprecision	none	555	506	-	SMD 0.36 lower (0.61 to 0.11 lower)	⊕⊕⊕O MODERATE	CRITICAL
Negative s	ymptoms, end	of treatmen	t (measured with: PA	NSS negative, SA	NS, BPRS negative	, BRIANS; Better in	dicated	by lowe	r values)		•	
17	randomised trials	serious ^{1,2,4}	no serious inconsistency ³	no serious indirectness	no serious imprecision	none	618	568	-	SMD 0.32 lower (0.6 to 0.04 lower)	⊕⊕⊕O MODERATE	CRITICAL
Psychotic :	symptoms, mii	n. 4-6 month	FU (measured with:	PANSS positive, S	SAPS, BPRS positi	ve; Better indicated	by lowe	r values	5)			
8	randomised trials	serious ^{1,2}	serious ⁵	no serious indirectness	no serious imprecision	none	318	361	-	SMD 0.12 higher (0.1 lower to 0.34 higher)	⊕⊕OO LOW	IMPORTANT
Negative s	ymptoms, min.	4-6 month	FU (measured with:	PANSS negative, S	ANS, BPRS negati	ve, BRIANS; Better i	indicate	d by low	ver values)			
10	randomised trials	serious ^{1,2,4}	serious ⁵	no serious indirectness	serious ⁶	none	377	421	-	SMD 0.10 higher (0.1 lower to 0.3 higher)	⊕000 VERY LOW	IMPORTANT
Social fund	ction, end of tre	eatment (me	asured with: SOFAS	, Social Provision	Scale, SFS, GAS, 0	SAF; Better indicate	d by hig	her valu	ies)		•	
8	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	266	309	-	SMD 0.07 higher (0.1 lower to 0.23 higher)	⊕⊕⊕O MODERATE	IMPORTAN1
Distress, P	SYRATS (mea	sured with:	hallucinations; Bette	er indicated by low	er values)		•		,		•	
5	randomised trials	serious ^{1,2}	serious ⁵	no serious indirectness	no serious imprecision ⁶	none	103	99	-	MD 0.22 lower (1.28 lower to 0.84 higher)	⊕⊕OO LOW	IMPORTANT
Relapse, e	nd of treatmen	t		•								
4	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	serious ⁶	none		38/178 (21.3%)	RR 0.80 (0.48 to 1.32)	43 fewer per 1000 (from 111 fewer to 68 more)	⊕⊕OO LOW	IMPORTANT
QoL, end o	of intervention	Better indic	ated by higher value	es)								
4	randomised trials	serious ^{1,2,4}	no serious inconsistency	no serious indirectness	serious ⁶	none	141	156	-	SMD 0.29 lower (0.61 lower to 0.03 higher)	⊕⊕OO LOW	IMPORTAN1
Days in ho	spital, end of i	ntervention	(Better indicated by	lower values)								
4	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	serious ⁶	none	210	215	-	MD 10.64 lower (32.14 lower to 10.86 higher)	⊕⊕OO LOW	IMPORTANT

¹ Risk of performance bias

² Risk of reporting bias

³ Inconsistency is explained by the study by Grant et al. (Low IÂ² without)

⁴ Risk of selection bias

⁵ Considerable Heterogeneity 6 95% CI could be in favour of both TAU and CBT with clinical relevance

Evidensprofil PICO 9: Misbrug og mangelfuld behandlingstilknytning

Tabel 11: Kognitiv adfærdsterapi i kombination med Motivational Interviewing til behandling af samtidigt misbrug

Question: PICO 9 Should Cognitive behaviour therapy + Motivational interviewing vs Standard care be used in Schizophrenia?

Quality assessment						No of patients		Effect		Quality	Importance	
No of studies	Design	Risk of bias	3	Indirectness	Imprecision	Other considerations	Cognitive behaviour therapy + Motivational interviewing	Standard care	Relative (95% CI)	Absolute		
Cannabis use, end of treatment (follow-up 3 months; Better indicated by lower values)								,				
2	randomised trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious ¹	none	75	52	-	SMD 0.06 lower (0.42 lower to 0.29 higher)	⊕⊕⊕O MODERATE	CRITICAL
Amphetar	mine, end of tr	,	w-up 3 months; r	measured with:	estimated daily of	consumption past	month; Better indicated by		es)			
1	randomised trials	serious ²	no serious inconsistency	no serious indirectness	very serious ¹	none	11	9	-	MD 0.16 higher (0.73 lower to 1.04 higher)	⊕000 VERY LOW	CRITICAL
Cannabis	use, longest F	U (follow-up	min. 4-6 months;	Better indicated	by lower values	s)						
3	randomised trials		no serious inconsistency	no serious indirectness	no serious imprecision	none	94	74	-	SMD 0.03 higher (0.34 lower to 0.41 higher)	⊕⊕⊕⊕ HIGH	IMPORTANT
Amphetamine, estimated daily use, 12 months FU (follow-up min. 4-6 months; Better indicated by lower values)												
	randomised trials		no serious inconsistency	no serious indirectness	very serious ¹	none	9	8	-	MD 0.13 higher (0.11 lower to 0.37 higher)	⊕⊕OO LOW	IMPORTANT
Symptom	Symptoms, end of treatment (follow-up 3-6 months; measured with: PANSS/SANS; Better indicated by lower values)											
3	randomised trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious ¹	none	84	74	-	SMD 0.16 higher (0.15 lower to 0.47 higher)		IMPORTANT
Relapse (mental state),	end of treatm	ent (follow-up 9 n	nonths)								
1	randomised trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious ¹	none	5/18 (27.8%)	10/18 (55.6%)	RR 0.5 (0.21 to 1.17)	278 fewer per 1000 (from 439 fewer to 94 more)	⊕⊕OO LOW	IMPORTANT
Use of alc	cohol, end of to	reatment (follo	ow-up 3-6 months	s; Better indicate	d by lower value	es)						
2	randomised trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious ^{1,3}	none	31	37	-	SMD 0.32 higher (0.17 lower to 0.81 higher)		IMPORTANT
Quality of	Life, end of tr	eatment (folio	ow-up 6 months; i	measured with: I	BQOL, WHOQOI	L, MANSA; Better i	indicated by higher values)	•				
3	randomised trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision ¹	none	106	84	-	SMD 0.17 higher (0.13 lower to 0.48 higher)	⊕⊕⊕⊕ HIGH	IMPORTANT
Social fur	nctioning, end	of treatment	(follow-up mediar	3-9 months; me	asured with: SF	S, GAF average s	core ; Better indicated by hi	gher values	s)			
3	randomised trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious ¹	none	114	95	-	SMD 0.08 lower (0.54 lower to 0.37 higher)	⊕⊕⊕O MODERATE	IMPORTANT
Days in h	ospital (Better	indicated by	lower values)									
-	No evidence available					none	0	-	-	not pooled		IMPORTANT
Mortality	(at follow up) (follow-up 12	months)	•								
3	randomised trials	no serious risk of bias ⁴	no serious inconsistency	no serious indirectness	serious⁵	none	6/247 (2.4%)	3.1%		9 fewer per 1000 (from 24 fewer to 44 more)		IMPORTANT
Crimes (fo	Crimes (follow-up 6 months; assessed with: number of arrests)											
1	randomised trials	serious ²	no serious inconsistency	no serious indirectness	serious ⁵	none	8/61 (13.1%)	13/49 (26.5%)	OR 0.42 (0.16 to 1.11)	134 fewer per 1000 (from 211 fewer to 21 more)	⊕⊕OO LOW	IMPORTANT

only one study
 attrition bias (incomplete outcome data)
 these were skewed data
 Risk of bias: vurderet serious. Alle tre inkluderede studier havde et frafald på over 20%, og der er uklart risk of bias.
 Absolute effect contains both evidence for and against treatment

Evidensprofil PICO 10: Assertive Community Treatment

Question: PICO 10 Should Assertive Community Treatment vs Treatment as usual be used for schizophrenia with decreased function?: Assertive community treatment versus standard care for schizophrenia.

			Quality ass	sessment		No of patients		Effect				
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Assertive Community Treatment	Treatment as usual	Relative (95% CI)	Absolute	Quality	Importance
oss of c	ontact, longes		-up max 24 month	is)		<u>, </u>		•				
3	randomised trials	serious ^{1,2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	83/774 (10.7%)	201/764 (26.3%)	RR 0.4 (0.27 to 0.61)	158 fewer per 1000 (from 103 fewer to 192 fewer)		CRITICAL
ays of h	ospital pr. mo	onth. longes	t FU (follow-up ma	x. 24 months; Be	tter indicated by	lower values)		•				
26	randomised trials	serious ^{1,2,3,4}	serious ⁵	no serious indirectness	no serious imprecision	none	1913	1804	-	MD 0.86 lower (1.38 to 0.35 lower)	⊕⊕OO LOW	IMPORTAN
Other hea			J (follow-up max 2	4 months; asses	sed with: emerge	ency room visits)						
I	randomised trials	serious ^{1,2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	41/117 (35%)	19/61 (31.1%)	RR 1.13 (0.72 to 1.76)	40 more per 1000 (from 87 fewer to 237 more)	⊕⊕⊕O MODERATE	IMPORTAN
Symptom				easured with: CS	SI, BPRS, SCL-90	0, PSE, CPRS, split	-GAF; Better indicate	ted by lower va	lues)			
10	randomised trials	serious ^{1,2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	688	601	-	SMD 0.27 lower (0.38 to 0.15 lower)	⊕⊕⊕O MODERATE	IMPORTAN
Quality of	life, longest	FU (follow-u	p 6-12 months; me	easured with: QO	LI, LQoLP, MAN	SA, ; Better indicat	ted by higher values	5)				!
6	randomised trials	serious ^{1,2,3,4}	serious ⁵	no serious indirectness	no serious imprecision	none	234	219	-	MD 0.10 lower (0.36 lower to 0.16 higher)	⊕⊕OO LOW	IMPORTAN
Patient sa	tisfaction, lo	ngest FU (fo	llow-up max 12 m	onths; Better indi	cated by higher	values)		•				
2	randomised trials	serious ^{2,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	66	61	-	SMD 0.75 higher (1.11 to 0.38 higher)	⊕⊕⊕O MODERATE	IMPORTAN
Mortalitet	(all causes) I	ongest FU (follow-up max 24 r	nonths)								
12	randomised trials	serious ^{1,2,3,4}	no serious inconsistency	no serious indirectness	no serious imprecision	none	28/885 (3.2%)	29/857 (3.4%)	RR 0.89 (0.53 to 1.51)	4 fewer per 1000 (from 16 fewer to 17 more)	⊕⊕⊕O MODERATE	IMPORTAN
Social fur				red with: social r	ole performance	(DAS, RFS, Straus	ss-Carpenter Scale;	Better indicate	d by higher va	lues)		
3	randomised trials	serious ^{1,2,3,4}	serious ⁵	no serious indirectness	no serious imprecision	none	128	132	-	SMD 0.28 higher (0.65 higher to 0.1 lower)	⊕⊕OO LOW	IMPORTAN
Crime, lo				ed with: police c	ontact (6-12m Fl	J), arrests (7-12+m), imprisoned (7-12+	m))				
10	randomised trials	serious ^{1,2,3,4}	serious ⁵	no serious indirectness	no serious imprecision	none	125/758 (16.5%)	102/646 (15.8%)	RR 0.84 (0.52 to 1.33)	25 fewer per 1000 (from 76 fewer to 52 more)	⊕⊕OO LOW	IMPORTAN
² Risk of re ³ Risk of s ⁴ Risk of p	ttrition bias (in- eporting bias election bias (i erformance bia ation across s	nsufficient ra as	come data) ndomisation proced	dure)								