

Evidensprofiler NKR distal radiusfraktur Final

PICO 4

Question: K-tråd sammenlignet med reposition og gips (konservativ behandling) af distal radius fraktur

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	K-tråde	Konservativ behandling	Relative (95% CI)	Absolute		
SF36 mental score (follow-up mean 12 months; measured with: SF36; range of scores: 0-100; Better indicated by higher values)												
1	randomised trials ¹	serious ²	no serious inconsistency	no serious indirectness	serious ³	none	27	27	-	mean 51.0 higher (46.02 to 55.98 higher)	⊕⊕⊕⊕ LOW	CRITICAL
SF36 fysisk score (follow-up mean 12 months; measured with: SF36; range of scores: 0-100; Better indicated by higher values)												
1	randomised trials ¹	serious ²	no serious inconsistency	no serious indirectness	serious ³	none	27	27	-	mean 42.2 higher (38.54 to 45.86 higher)	⊕⊕⊕⊕ LOW	CRITICAL
Functional grading: Fair og Poor 6 mth (follow-up mean 6 months; assessed with: Excellent, good, fair og poor)												
2	randomised trials	very serious ^{2,4}	no serious inconsistency	serious ^{5,6}	no serious imprecision	none	14/73 (19.2%)	19/75 (25.3%)	RR 0.76 (0.41 to 1.4)	61 fewer per 1000 (from 149 fewer to 101 more)	⊕⊕⊕⊕ VERY LOW	CRITICAL
Functional grading: Fair og poor 12 mth (follow-up mean 12 months; assessed with: Excellent, good, fair og poor)												
2	randomised trials	very serious ^{2,4}	no serious inconsistency	serious ^{5,6}	no serious imprecision	none	6/43 (14%)	19/42 (45.2%)	RR 0.31 (0.14 to 0.69)	312 fewer per 1000 (from 140 fewer to 389 fewer)	⊕⊕⊕⊕ VERY LOW	CRITICAL
Smerte VAS (follow-up mean 12 months; measured with: VAS; range of scores: 0-10; Better indicated by lower values)												
1	randomised trials	serious ²	no serious inconsistency	no serious indirectness	serious ³	none	27	27	-	mean 0.7 higher (0.21 to 1.19 higher)	⊕⊕⊕⊕ LOW	IMPORTANT

Smerte lejlighedsvis (assessed with: egen skala)												
1	randomised trials ⁷	serious ²	no serious inconsistency	no serious indirectness	serious ³	none	2/20 (10%)	4/20 (20%)	RR 0.50 (0.1 to 2.42)	100 fewer per 1000 (from 180 fewer to 284 more)	⊕⊕○○ LOW	IMPORTANT
Tilbagevenden til arbejde (follow-up mean 12 months; assessed with: hvor mange der ikke vendte tilbage til arbejde)												
1	randomised trials ⁷	serious ²	no serious inconsistency	no serious indirectness	serious ³	none	0/5 (0%)	2/6 (33.3%)	RR 0.23 (0.01 to 3.97)	257 fewer per 1000 (from 330 fewer to 990 more)	⊕⊕○○ LOW	IMPORTANT

² Ingen blinding

³ Brede konfidensintervaller og kun 1 studie

⁴ Ingen ITT analyse, lost to follow up dårligt beskrevet

⁵ Målemetoden er ikke et reelt patientrelateret effektmål, men derimod flere forskellige sammenlignelige metoder hvor der indgår radiologiske parametre, kirurgens vurdering samt funktionsmålinger.

⁶ Bandageringsstilling volart og ulnart flekteret hånd

PICO 5

Question: Ekstern fiksatation sammenlignet med reposition og gips (konservativ behandling) af distal radiusfraktur.

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Ex fix	konservativ beh	Relative (95% CI)	Absolute		
Functional grading: Fair or poor 3-6 md (follow-up 3-6 months)												
3	randomised trials	very serious ^{1,2}	no serious inconsistency	serious ³	no serious imprecision	none	34/91 (37.4%)	14/74 (18.9%)	RR 2.11 (1.26 to 3.54)	210 more per 1000 (from 49 more to 481 more)	⊕○○○ VERY LOW	CRITICAL
Functional grading: Fair og poor 12md-10 år (follow-up 1-10 years)												
10	randomised trials	very serious ^{1,2}	no serious inconsistency	serious ³	no serious imprecision	none	68/276 (24.6%)	87/282 (30.9%)	RR 0.75 (0.57 to 0.98)	77 fewer per 1000 (from 6 fewer to 133 fewer)	⊕○○○ VERY LOW	CRITICAL

¹ ingen blinding

² oftest ingen ITT analyse og manglende redegørelse for patienter lost to follow-up

³ De anvendte målemetoder er ikke reelle patient relaterede effektmål, men en måling hvor der indgår radiologiske vurderinger samt kirurgens vurdering samt måling af patientens funktionsniveau.

PICO 6

Question: Volar vinkelstabil skinne sammenlignet med reposition og gips (konservativ behandling) til distal radiusfraktur.

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Volar vinkelstabil skinne	Reposition og gips (konservativ behandling)	Relative (95% CI)	Absolute		
Funktionscore 3 måneder (follow-up mean 12 weeks; measured with: Patient-rated wrist evaluation score; range of scores: 0-100; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ^{2,3}	none	36	37	-	mean 33.7 higher (23.3 to 44.2 higher)	⊕000 VERY LOW	CRITICAL
Funktionscore 1 år (follow-up mean 1 years; measured with: Patient-rated wrist evaluation score (0 bedst); range of scores: 0-100; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ^{2,3}	none	36	37	-	mean 12.8 higher (5.2 to 20.4 higher)	⊕000 VERY LOW	CRITICAL
Funktionscore 3 måneder (measured with: Dissability of the shoulder and hand score; range of scores: 0-100; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ^{2,3}	none	36	37	-	mean 13.3 higher (8.5 to 18.1 higher)	⊕000 VERY LOW	CRITICAL
Funktionscore 1 år (measured with: Disability of shoulder and ar score; range of scores: 0-100; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	36	37	-	mean 5.7 higher (2.1 to 9.3 higher)	⊕000 VERY LOW	CRITICAL
Smerter i hvile 3 måneder (follow-up mean 3 months; measured with: VAS skala; range of scores: 0-10; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ^{2,3}	none	36	37	-	mean 0.2 higher (0 to 0.4 higher)	⊕000 VERY LOW	IMPORTANT

Smerter i hvile 1 år (follow-up mean 1 years; measured with: VAS skala; range of scores: 0-10; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	36	37	-	MD 0.1 higher (0 to 0.2 higher)	⊕○○○ VERY LOW	IMPORTANT
Smerter i aktivitet 3 måneder (follow-up mean 3 months; measured with: VAS skala; range of scores: 1-10; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	36	37	-	mean 1.4 higher (0.8 to 2.1 higher)	⊕○○○ VERY LOW	IMPORTANT
Smerter i aktivitet 1 år (follow-up mean 1 years; measured with: VAS skala; range of scores: 0-10; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	36	37	-	mean 0.7 higher (0.4 to 1 higher)	⊕○○○ VERY LOW	IMPORTANT

¹ manglende blinding af forsøgsperson og behandler samt manglende data for udgåede patienter (ingen ITT analyse)

² brede konfidensintervaller

³ Der foreligger kun et studie

PICO 7

Question: Ekstern fiksation sammenlignet med volar vinkelstabil skinne til distal radiusfraktur

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Volar vinkelstabil skinne	Ekstern fiksation	Relative (95% CI)	Absolute		
Disabilities of the arm, shoulder and hand score (follow-up mean 3 months; measured with: DASH; Better indicated by lower values)												
3	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	84	90	-	MD 15.58 (6.64 to 24.52)	⊕⊕⊕⊕ LOW	CRITICAL
Disabilities of the arm, shoulder and hand score (follow-up mean 12 months; measured with: DASH; Better indicated by lower values)												
3	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	84	90	-	MD 8.00 (0.44 to 15.55)	⊕⊕⊕⊕ LOW	CRITICAL
Komplikationer (follow-up mean 12 months; assessed with: Total antal komplikationer)												
3	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	17/84 (20.2%)	23/90 (25.6%)	OR 0.71 (0.34 to 1.46)	60 fewer per 1000 (from 151 fewer to 78 more)	⊕⊕⊕⊕ LOW	CRITICAL
Smerter i hvile 3 md (follow-up mean 3 months; measured with: VAS; Better indicated by lower values)												
1	randomised trials	serious ³	no serious inconsistency	no serious indirectness	serious ²	none	43	51	-	MD 3 lower (-8 to 2 higher)	⊕⊕⊕⊕ LOW	IMPORTANT
Smerter i aktivitet 3 md (follow-up mean 3 months; measured with: VAS; Better indicated by lower values)												
1	randomised trials	serious ³	no serious inconsistency	no serious indirectness	serious ²	none	43	50	-	MD 6 lower (-14 to 1 higher)	⊕⊕⊕⊕ LOW	IMPORTANT
Smerter i hvile 1 år (follow-up mean 12 months; measured with: VAS; Better indicated by lower values)												
1	randomised	serious ³	no serious	no serious	serious ²	none	50	54	-	MD 2 lower (-5 to 1	⊕⊕⊕⊕	IMPORTANT

	trials		inconsistency	indirectness						higher)	LOW	
Smerter i aktivitet 1 år (follow-up mean 12 months; measured with: VAS; Better indicated by lower values)												
1	randomised trials	serious ³	no serious inconsistency	no serious indirectness	serious ³	none	50	54	-	MD 3 higher (-3 to 9 higher)	⊕⊕⊕⊕ LOW	IMPORTANT

¹ Ingen blinding, Mulighed for attrition bias

² Brede konfidens intervaller.

³ Ingen blinding, Ikke blokrandomiseret i forhold til AO grupper

PICO 8

Question: Volar vinkelstabil skinne sammenlignet med operation med K-tråde til distal radiusfraktur

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Volar vinkelstabil skinne	K-tråd	Relative (95% CI)	Absolute		
DASH, 3 mdr (follow-up mean 3 months; Better indicated by lower values)												
4	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	114	122	-	MD 9.29 lower (13.21 to 5.38 lower)	⊕⊕⊕⊕ LOW	CRITICAL
DASH, 6 mdr (follow-up mean 6 months; Better indicated by lower values)												
2	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	77	82	-	MD 6.68 lower (10.15 to 3.21 lower)	⊕⊕⊕⊕ LOW	CRITICAL
DASH 12 mdr (follow-up mean 12 months; Better indicated by lower values)												
2	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	37	39	-	MD 3.04 lower (9.96 lower to 3.87 higher)	⊕⊕⊕⊕ VERY LOW	CRITICAL
Tilbagevenden til arbejde (follow-up mean 12 months; assessed with: antal)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	18/18 (100%)	15/16 (93.8%)	-	938 fewer per 1000 (from 938 fewer to 938 fewer)	⊕⊕⊕⊕ VERY LOW	IMPORTANT

¹ Ingen blinding og ingen ITT analyse

² bredt konfidensinterval

³ Kun et studie

PICO 9

Question: Tidlig mobilisering (indenfor 14 dage) sammenlignet med sen mobilisering (efter 5uger) efter distal radiusfraktur behandlet med volar vinkelstabil skinne

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Tidlig mobilisering (indenfor 14 dage)	Sen mobilisering (6 uger)	Relative (95% CI)	Absolute		
Smerte 3 måneder (follow-up mean 3 months; measured with: VAS skala; range of scores: 0-10; Better indicated by lower values)												
1	randomised trials	no serious risk of bias	no serious inconsistency	serious ¹	serious ²	none	29	27	-	mean 2.4 higher (1.7 to 3.2 higher)	⊕⊕○○ LOW	IMPORTANT
Smerter 6 måneder (measured with: VAS skala; range of scores: 0-10; Better indicated by lower values)												
1	randomised trials	no serious risk of bias	no serious inconsistency	serious ^{1,3}	serious ²	none	28	26	-	MD 1.5 higher (0.7 to 2.3 higher)	⊕⊕○○ LOW	IMPORTANT
Funktionsscore 3 måneder (measured with: Disabilities of the arm, shoulder and hand score; range of scores: 0-100; Better indicated by lower values)												
1	randomised trials	no serious risk of bias	no serious inconsistency	serious ^{1,3}	serious ²	none	29	27	-	mean 19 higher (13 to 25 higher)	⊕⊕○○ LOW	CRITICAL
Funktionsscore 6 måneder (measured with: Disabilities of the arm, shoulder and hand score; range of scores: 0-100; Better indicated by lower values)												
1	randomised trials	no serious risk of bias	no serious inconsistency	very serious ^{1,3}	serious ^{2,4}	none	28	26	-	mean 8.5 higher (2.6 to 14 higher)	⊕○○○ VERY LOW	CRITICAL

¹ 8 pt havde AO B type frakturer og passede derfor ikke med vores population

² Der findes kun 1 randomiseret studie om emnet

³ 6 måneders follow-up er væsentligt forskelligt fra 12 måneder som var ønsket follow-up tid i PICO spørgsmålet

⁴ brede konfidensintervaller

PICO 10

Question: Superviseret genoptræning sammenlignet med egen genoptræning med program efter operation med volar vinkelstabil skinne af distal radiusfraktur

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Superviseret	Ikke superviseret træning	Relative (95% CI)	Absolute		
Function, 2 mdr. (follow-up mean 8 weeks; measured with: PRWE og DASH; Better indicated by lower values)												
2	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ²	none	61	57	-	SMD -0.42 (-0.79 to -0.05)	⊕000 VERY LOW	CRITICAL
Function, 6 mdr (follow-up mean 6 months; measured with: DASH ; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	37	38	-	MD 1.10 higher (-2.18 to 4.38)	⊕000 VERY LOW	CRITICAL
Smerter, 3 mdr (follow-up mean 3 months; measured with: VAS; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ^{2,3}	none	38	34	-	MD 00.10 higher (-0.46 to 0.26)	⊕000 VERY LOW	CRITICAL
Smerter, 6 mdr (follow-up mean 6 months; measured with: VAS; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ^{2,3}	none	37	39	-	MD 0.40 higher (-0.22 to 1.02)	⊕000 VERY LOW	CRITICAL

¹ Manglende blinding og stort bortfald

² Bredt konfidensinterval. Anbefaling vil være afhængigt af øvre og nedre grænse.

³ Usikkerhed på grund af kun et publiceret studie

PICO 10

Question: Superviseret genoptræning sammenlignet med egen genoptræning med program efter konservativ behandling af distal radiusfraktur

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Superviseret træning	Ikke superviseret	Relative (95% CI)	Absolute		
Funktion, 6 uger (follow-up mean 6 weeks; measured with: PRWE, aktivitet; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ²	none	19	16	-	MD 6.8 lower (-25.55 to 11.95)	⊕000 VERY LOW	CRITICAL
Smerter, 6 uger (follow-up mean 6 weeks; measured with: PRWE, smerter; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ^{2,3}	none	19	16	-	MD 5.50 lower (-23.03 to 12.03)	⊕000 VERY LOW	CRITICAL
Funktion, 24 uger (follow-up mean 24 weeks; measured with: PRWE, funktion; Better indicated by lower values)												
1	randomised trials	very serious ⁴	no serious inconsistency	no serious indirectness	very serious ^{2,3}	none	19	14	-	MD 5.10 lower (-24.33 to 14.03)	⊕000 VERY LOW	CRITICAL
Smerter, 24 uger (follow-up mean 24 weeks; measured with: PRWE, smerter; Better indicated by lower values)												

1	randomised trials	very serious ^{1,4}	no serious inconsistency	no serious indirectness	very serious ^{2,3}	none	19	14	-	MD 8.4 lower (-27.07 to 10.27)	⊕○○○ VERY LOW	CRITICAL
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¹ Ingen blinding

² Usikkerhed på grund af kun et publiceret studie

³ Bredt konfidensinterval. Anbefaling vil variere afhængigt af øvre og nedre grænse

⁴ Ingen blinding og 19 % bortfald