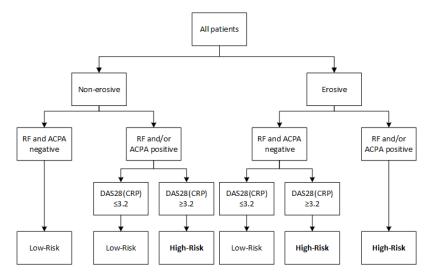
Supplemental Figure 1: Stratification scheme: Classification of patients in high or low-risk according to poor prognostic factors



RF= Rheumatoid Factor, ACPA= Anti-Citrullinated Protein Antibody, DAS28 (CRP) = 28 joint disease activity score calculated with C-reactive protein.

Supplemental Table 1: Adjusted p-values with the Holm-Bonferroni method to account for multiple testing.

Comparison	Values (COBRA Slim vs TSU)	Statistical test	p-value	Adjusted p-value
Proportion of patients	26/43	Chi-square	0.0005091	0.004050
taking analgesics at any	VS			
timepoint Proportion of nationts on	43/47	Chi sayara	0.001615	0.004050
Proportion of patients on chronic analgesics	9/43 vs	Chi-square	0.001615	0.004050
chionic unalgesics	25/47			
Proportion of patients on	6/43	Chi-square	0.005099	0.0091782
chronic NSAIDs	vs			
	19/47			
Proportion of patients on	33/43	Chi-square	0.3596	0.4623429
analgesics before the start	VS			
of the trial	32/47			
Proportion of patients on	18/43	Chi-square	0.0931	0.139650
analgesics at baseline	VS			
	28/47			
Baseline VAS pain	48±6	ANOVA	0.50394	0.5669325
(mean ± SE)	VS			
	52±4			
Baseline DAS28CRP	4.5±0.3	ANOVA	0.885941	0.885941
(mean ± SE)	VS			
	4.6±0.2			
Survival to time of first	85.8±5.5	Log-rank	0.0018	0.004050
chronic analgesic intake	VS	Gehan-Breslow	0.0010	0.004050
(mean ± SE)	54.0±7.2			

NSAIDs: non-steroidal drugs, VAS: visual analogue scale, DAS28CRP: disease activity score in 28 joints with C-reactive protein, SE: standard error

Supplemental Table 2: Demographic and clinical characteristics at baseline per treatment scheme.

	COBRA Slim	Tight-Step-Up
	n=43	n=47
Demographic variables		
Age, years	51 (14)	51 (14)
Women, n (%)	33 (77)	38 (81)
Smokers, n smoked ever (%)	21 (49)	18 (38)
Current work n (%)	22 (51)	27 (57)
Clinical variables		
Body mass index, kg/m ²	25 (4)	27 (4)
Symptom duration, weeks; median (IQR)	21 (14-35)	19 (13-33)
RF positive, n (%)	11 (26)	11 (23)
Anti-CCP positive, n (%)	12 (28)	11 (23)
Erosive disease, n (%)	1 (2)	0 (0)
DAS28-CRP	4.50 (2.25)	4.55 (1.63)
Pain, mm (0-100)	48 (31)	52 (23)
Fatigue, mm (0-100)	39 (28)	46 (22)
HAQ score (0-3)	0.81 (0.85)	0.85 (0.72)

Data are presented as mean and standard deviation (SD) unless otherwise specified.

Symptom duration= number of weeks between onset of symptoms and start of treatment; RF= Rheumatoid factor; Anti-CCP= Anti cyclic citrullinated protein; DAS28= Disease activity score on 28 joints; CRP= C-reactive protein; HAQ= Health Assessment Questionnaire

Supplemental Table 3: Evolution over time of pain, DAS28CRP, patient's global health assessment, and CRP per treatment group and chronicity of NSAID/analgesic use:

VAS pain (0-100 scale)

Treatment group	Analgesic use	Visit weeks						
Treatment group	Allaigesic use	0	8	52	104			
COBRA Slim	Chronic (n=9)	63.3±6.7	36.4±6.6	27.4±6.0	26.0±6.2			
COBRA SIIIII	Non-chronic (n=34)	37.4±5.8	21.2±4.8	19.8±5.1	19.6±5.1			
Tight Cton Un	Chronic (n=25)	53.7±3.7	36.0±3.4	24.8±3.4	25.5±3.5			
Tight-Step-Up	Non-chronic (n=22)	45.1±8.5	25.9±5.3	27.4±9.5	31.9±9.1			

Disease activity score in 28 joints with C-reactive protein (DAS28CRP)

Treatment group	Analgosia uso	Visit weeks						
	Analgesic use	0	8	52	104			
COBRA Slim	Chronic (n=9)	5.1±0.4	3.0±0.3	2.4±0.3	2.2±0.2			
	Non-chronic (n=34)	4.1±0.3	2.3±0.2	2.0±0.2	1.9±0.2			
Tight-Step-Up	Chronic (n=25)	4.4±0.3	3.5±0.2	2.3±0.1	2.2±0.2			
	Non-chronic (n=22)	5.0±0.6	2.7±0.4	2.2±0.2	2.2±0.3			

Patients global health assessment (0-100 scale)

Treatment group	Analgesic use	Visit weeks						
Treatment group	Allaigesic use	0	8	52	104			
CORDA Clim	Chronic (n=9)	63.9±6.9	34.0±6.9	27.7±6.3	21.8±5.5			
COBRA Slim	Non-chronic (n=34)	37.6±5.4	22.9±4.8	18.6±4.6	17.9±4.3			
Timbe Cham IIIm	Chronic (n=25)	50.7±3.7	40.8±3.9	27.2±3.4	27.5±3.2			
Tight-Step-Up	Non-chronic (n=22)	46.4±8.5	23.9±5.7	25.4±8.3	29.3±5.7			

C-reactive protein (mg/L)

Treatment group	Analgasia usa	Visit weeks						
Treatment group	Analgesic use	0	8	52	104			
CODDA CI:	Chronic (n=9)	34.8±13.0	8.0±3.0	2.9±1.3	5.2±2.4			
COBRA Slim	Non-chronic (n=34)	9.6±3.3	6.2±2.2	5.4±1.9	3.2±1.9			
Tight Stop IIn	Chronic (n=25)	13.5±3.2	8.7±2.6	5.6±1.2	7.2±1.9			
Tight-Step-Up	Non-chronic (n=22)	13.6±4.2	7.0±5.1	4.5±2.2	3.7±3.8			

Data presented as mean and standard error

Supplemental Table 4: Number of patients with drug intake of the different types of analgesics: acetaminophen, NSAIDs, opioids (weak and strong), and antidepressants (as neuropathic pain drugs) at every visit week during the 2-year CareRA trial between COBRA Slim and Tight-Step-Up patients. Patients can be counted in more than one type of medication when taken in combination.

COBRA Slim (n=43)

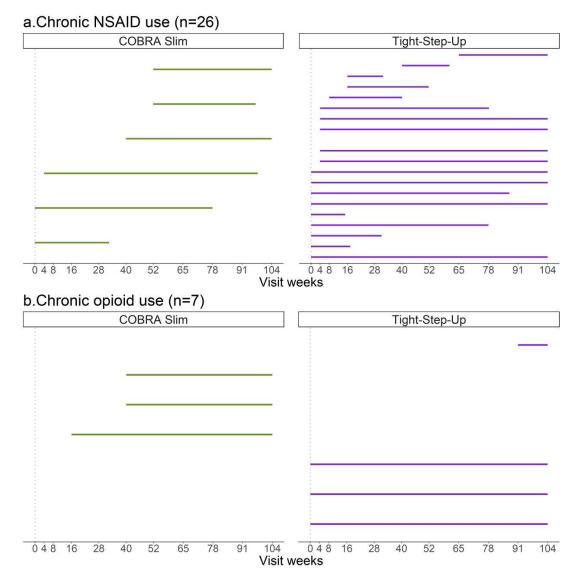
	Trial weeks										
Medication	0	4	8	16	28	40	52	65	78	91	104
Acetaminophen	5 (12)	3 (7)	3 (7)	5 (12)	5 (12)	6 (14)	6 (14)	6 (14)	5 (12)	7 (16)	6 (14)
NSAIDs	16 (37)	8 (19)	6 (14)	6 (14)	7 (16)	7 (16)	10 (23)	9 (21)	10 (23)	8 (19)	7 (16)
Opioids (strong)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)
Opioids (weak)	2 (5)	-	-	1 (2)	1 (2)	2 (5)	2 (5)	3 (7)	2 (5)	2 (5)	2 (5)
Antidepressants	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)

Tight-Step-Up (n=47)

Trial weeks											
Medication	0	4	8	16	28	40	52	65	78	91	104
Acetaminophen	7 (15)	9 (19)	9 (19)	8 (17)	10 (21)	11 (23)	8 (17)	9 (19)	10 (21)	10 (21)	11 (23)
NSAIDs	25 (53)	35 (74)	32 (68)	30 (64)	25 (53)	22 (47)	21 (45)	19 (40)	19 (40)	20 (43)	19 (40)
Opioids (strong)	-	-	-	-	-	-	-	-	-	-	-
Opioids (weak)	3 (6)	4 (9)	4 (9)	3 (6)	4 (9)	5 (11)	4 (9)	3 (6)	3 (6)	3 (6)	3 (6)
Antidepressants	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)

Data presented as number of patients and between brackets the percentage of them from their treatment strategy total

Supplemental Figure 2: Graphic representation of the use of a) NSAIDs and b) opioids in patients taking these drugs daily and chronically during the 2-year CareRA trial. Each line represents the time window of DC NSAID/opioid use in one patient. One patient of the Tight-Step-Up arm is not represented (on combination of acetaminophen + antidepressant).



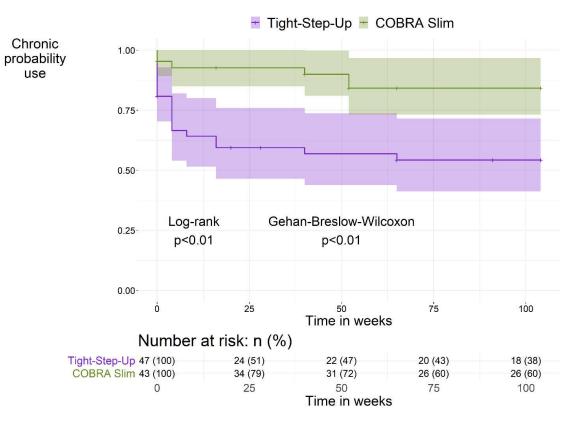
Supplemental Table 5: Dose, duration, and number of patients per analgesic in the case of chronic use, per treatment group.

	Tight-Step-Up			COBRA Slim			
Medication	Mean	Mean	# of	Mean	Mean	# of	
	daily dose	duration	patients	daily dose	duration	patients	
		of use in			of use in		
		days			days		
Acetaminophen	2.3g	670.0	3	650mg	543.5	2	
NSAIDs	-	327.9	20	-	346.3	6	
Ibuprofen	1.2g	432.0	1	1.2g	444.0	2	
Diclofenac	127.5mg	272.0	6	150mg	199.5	3	
Meloxicam	11.25mg	433.0	2	15mg	316.0	1	
Naproxen	950mg	174.3	5	-	-	-	
Piroxicam	20mg	299.8	6	-	-	-	
Etoricoxib	101.5mg	483.3	4	-	-	-	
Indomethacin	125.0mg	339.3	3	-	-	-	
Aceclofenac	150.0mg	418.5	2	-	-	-	
Proglumetacin	_	-		450.0mg	133.0	1	
Phenylbutazone	-	-		200.0mg	247.0	1	
Oxaprozin	-	-		1.2g	729.0	1	
Opioids	-	347.7	3	-	521.7	3	
Tramadol	133.3mg	347.7	3	75.0mg	552.5	2	
Methadone	-	-		30.0mg	460.0	1	
Antidepressants	60mg	723.0	1	37.5mg	381.7	1	
Duloxetine	60mg	723.0	1	-	-	1	
Nortriptyline	-	-	1	37.5mg	381.7	1	

Supplemental Table 6: Analgesics and NSAIDs specifically prescribed for RA with chronic daily intake per treatment group. Each row corresponds to a patient. Some patients had either a combination of different analgesics/NSAIDs or consecutive courses of the same analgesic/NSAID.

Treatment group	Medication	Total daily dosage	Total time of intake in days	Week of start within the trial
CORDA	Meloxicam	15mg	315	52
COBRA Slim	Diclofenac	150mg	228	Baseline
31111	Oxaprozin	1200mg	561	Baseline
	Piroxicam	20mg	137	Baseline
	Piroxicam	20mg	244	4
	Naproxen	1000mg	121	Baseline
	Meloxicam	7.5mg	146	40
	Naproxen	500mg	105	Baseline
	Naproxen	1000mg	353	28
	Diclofenac	150mg	179	78
Tight-Step-	Meloxicam	15mg	718	4
Up	Naproxen	1000mg	250	16
Oβ	Naproxen	1000mg	90	65
	Acetaminophen	2g	501	28
	Celecoxib	200mg	217	Baseline
	Acetaminophen	3g	783	Baseline
	Tramadol	200mg	783	Baseline
	Etoricoxib	90mg	744	4
	Etoricoxib	90mg	721	Baseline
	Diclofenac	150mg	277	Baseline

Supplemental Figure 3: Survival analysis of time to the first recorded use of chronic NSAID with Kaplan Meier



Supplemental Table 7: Cumulative events in time to first chronic analgesic use for COBRA Slim and Tight-Step-Up patients

	COBRA Slim								
Time	Number at	Number of	Survival	Standard	Lower 95% CI	Upper 95% CI			
	risk	events		error					
0	43	3	0.930	0.0388	0.857	1.000			
4	36	1	0.904	0.0456	0.819	0.998			
16	35	1	0.879	0.0511	0.784	0.985			
40	34	2	0.827	0.0597	0.718	0.953			
52	31	2	0.774	0.0667	0.653	0.916			

Tight-Step-Up										
Time	Time Number at Number of Survival Standard Lower 95% CI Up									
	risk	events		error						
0	47	13	0.723	0.0652	0.606	0.863				
4	34	6	0.596	0.0716	0.471	0.754				
8	28	1	0.574	0.0721	0.449	0.735				
16	27	2	0.532	0.0728	0.407	0.696				
40	23	1	0.509	0.0732	0.384	0.675				
65	22	1	0.486	0.0734	0.361	0.653				
91	20	1	0.461	0.0737	0.337	0.631				