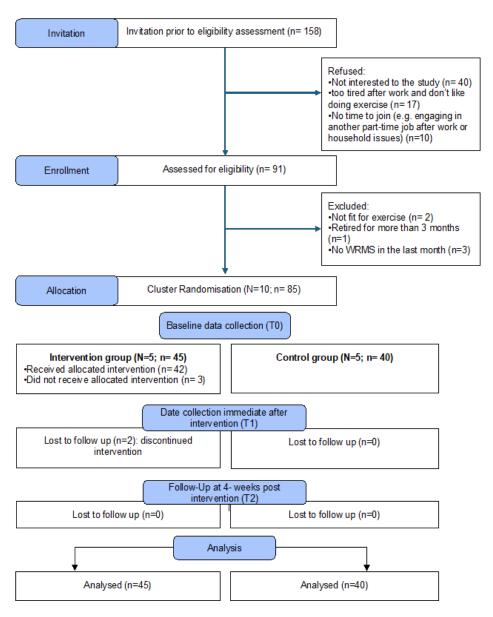
Results:

Figure 1 Study Recruitment and Participant Flow presented with CONSORT Diagram



Note. N= number of clusters; n= number of participants

Table 1 Descriptive Statistic Summary of the Participants' Demographics and Working Conditions

	Intervention (n= 45)	Control (n=40)
Age		
Median (IQR)	61.00(11.00)	61.50(18.00)

Number of participants, n (%)

31-40	2(4.44%)	3(7.50%)
41-50	6(13.33%)	10(25.00%)
51-60	13(28.89%)	7(17.50%)
61 or above	24(53.34%)	20 (50.00%)
Gender		
Female	40(88.89%)	31(77.5%)
Male	5(11.11%)	9(22.5%)
Marital status		
Single	0(0.00%)	1(2.50%)
Married	32(71.11%)	32(80.00%)
Widow	10(22.22%)	4(10.00%)
Divorced or separated	3(6.67%)	3(7.50%)
Education level		
Illiteracy	4(8.89%)	9(22.50%)
Completion of Primary	29(64.66%)	24(60.00%)
Education		
Completion of Secondary	12(26.67%)	7(17.50%)
Education		
(B) Participant working cond	litions:	
Mode of employment	40/00 000/	25(22.50()
Employed by contractors	40(88.89%)	37(92.5%)
Employed by private compan		2(5.00%)
Self-employment	0(0.00%)	1(2.50%)
Working experience, years		
Median (IQR) 5.0(7.5)		5.0(7.0)
Number of participants, n (%	(a)	
< 1 year	1(2.22%)	2(5.00%)
1-5 years	22(48.89%)	18(45.0%)
6-10 years	11(24.44%)	13(32.50%)
11-15 years	3(6.67%)	2(5.00%)
16-20 years	5(11.11%)	2(5.00%)
>20 years	3(6.67%)	3(7.50%)
Weekly working hours	·	· · · · · · · · · · · · · · · · · · ·
Median (IQR)	48.0(12.0)	48.0(8.0)

Table 2. Changes of outcome measures within group along timeline

		IG	CG
		Mean (SD)	Mean (SD)
no.WRMS	T0	3.11 (1.86)	3.23 (2.04)
	T1	1.76 (1.25)	3.95 (2.14)

	T2	1.33 (1.22)	4.22 (2.15)
MSK-HQ	T0	37.16 (8.13)	39.62 (9.40)
	T1	41.56 (7.93)	40.95 (9.23)
	T2	42.51 (8.75)	40.38 (7.25)
QoL	T0	3.36 (0.71)	3.50 (0.72)
	T1	3.71 (0.76)	3.60 (0.78)
	T2	3.89 (0.83)	3.73 (0.72)
sWAI	T0	7.04 (1.49)	7.28 (1.71)
	T1	7.71 (1.32)	7.88 (1.49)
	T2	7.93 (1.44)	7.65 (1.39)

All intervention completed uneventfully with no adverse events associated with this study.