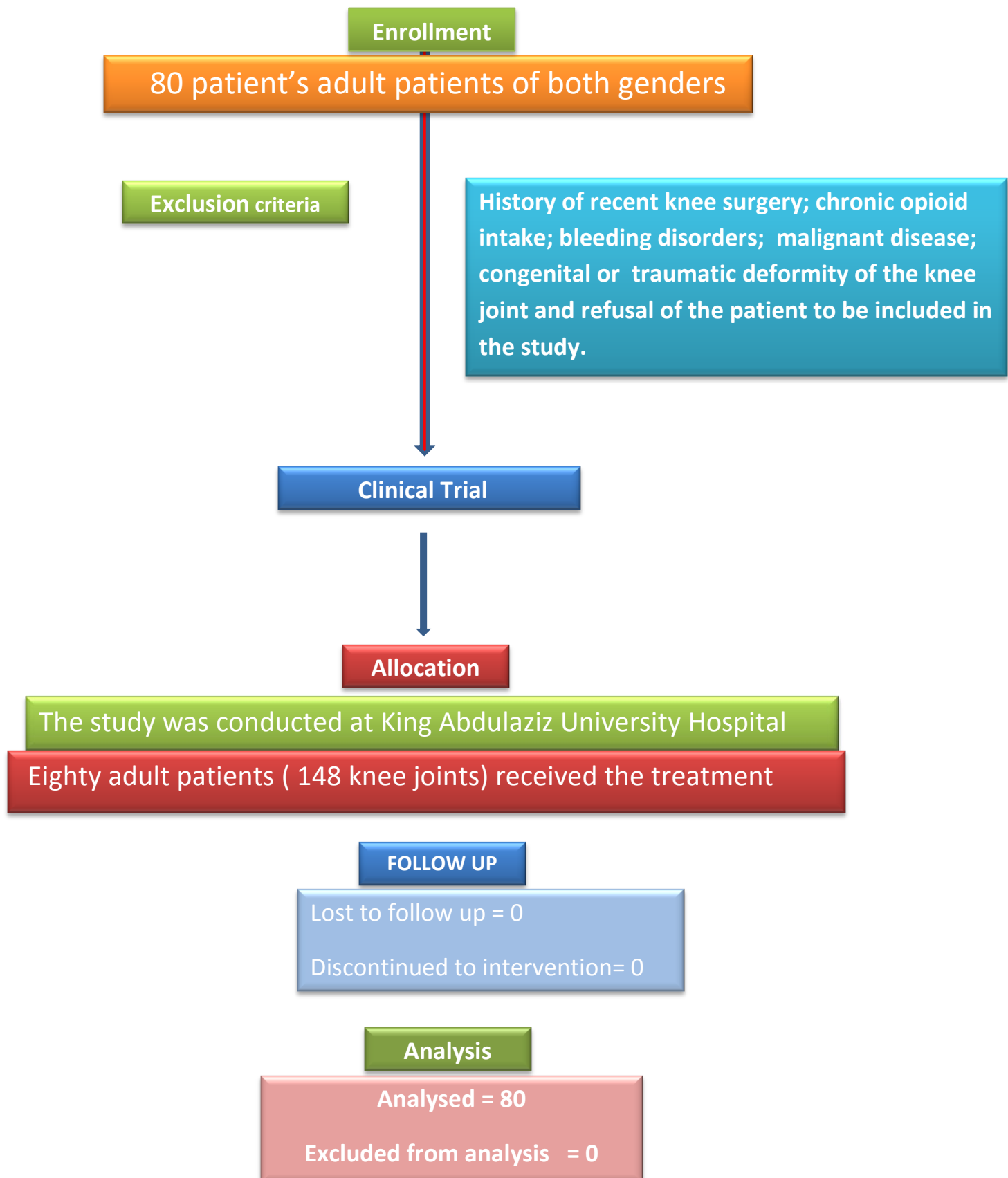


Participant Flow:



Baseline characteristics:

Parameters	Data (number = 80)
Age (years)	61.81 ± 10.76 (38-85)
Weight (kg)	87.95 ± 15.12 (56-156)
Height (meter)	1.58 ± 0.10 (1.44-1.86)
Body mass index (kg/m ²)	34.98 ± 5.52 (23.01-50.60)
Gender	
Male	22 (27.50%)
Female	58 (72.50%)
Smoking	
Yes	4 (5.00%)
No	75 (93.75%)
Previous smoking	1 (1.25%)
Comorbidity	
Obesity	50 (62.50%)
Hypertension	25 (31.25%)
Type 2 <i>diabetes mellitus</i>	14 (17.50%)
Hypothyroidism	10 (12.50%)
Rheumatoid arthritis	8 (10.00%)
Low back pain	6 (7.50%)
Lower limb edema	1 (1.25%)
Hepatitis	1 (1.25%)

Outcome Measures:

Data are expressed as mean \pm SD (minimum- maximum) or number (%) as appropriate.

Disease duration and treatment of patients.

Parameters	Data (Number = 80)
Disease duration (years)	8.86 \pm 6.85 (1-33)
Knee affected	
Right knee	9 (11.25%)
Left knee	3 (3.75%)
Bilateral knees	68 (85.0%)
Medication	
Non-steroidal anti-inflammatory	79 (98.75%)
Glucosamine	12 (15.00%)
Prednisone	9 (11.25%)
Relaxon	2 (2.50%)
Methotrexate	6 (7.50%)
Fat injection	
Single injection	76 (95.00%)
Two injections	1 (1.25%)
Three injections	3 (3.75%)

Data are expressed as mean \pm SD (minimum- maximum) or number (%) as appropriate.

Visual analogue scale values at rest & with activity before and after intra-articular fat micro-graft injection.

Visual Analogue Scale	Pre-Injection	Post-Injection	Significance (P-value)
Rest	7.37 ± 1.85(2.00-10.00)	0.69 ± 0.64(0.00-2.00)	0.0001
Exercise	9.11 ± 1.52 (6.00-10.00)	1.31 ± 0.79 (0.00-3.00)	0.0001

Wilcoxon test for non-parametric variables was used to compare pre- to post-injection values.

The Western Ontario and McMaster Universities Osteoarthritis Index before and after intra-articular fat micro-graft injection.

Western Ontario and McMaster Universities Osteoarthritis Index	Pre-Injection	Post-Injection	Significance (P-value)
Pain			
1. Walking	3.89 ± 0.32 (3.00-4.00)	0.63 ± 0.54 (0.00-2.00)	0.0001
2. Stair Climbing	3.95 ± 0.27 (2.00-4.00)	1.01 ± 0.46 (0.00-2.00)	0.0001
3. Nocturnal	3.30 ± 0.75 (0.00-4.00)	0.33 ± 0.61 (0.00-4.00)	0.0001
4. Rest	3.13 ± 0.77 (0.00-4.00)	0.15 ± 0.36 (0.00-1.00)	0.0001
5. Weight bearing	3.98 ± 0.22 (3.00-4.00)	0.96 ± 0.49 (0.00-2.00)	0.0001
Stiffness			

1. Morning stiffness	3.29 ± 0.96 (0.00-4.00)	0.30 ± 0.46 (0.00-1.00)	0.0001
2. Stiffness occurring later in the day	2.95 ± 1.04 (0.00-4.00)	0.39 ± 0.49 (0.00-1.00)	0.0001
Physical Function			
1. Descending stairs	3.86 ± 0.45 (3.00-4.00)	0.86 ± 0.38 (0.00-2.00)	0.0001
2. Ascending stairs	3.96 ± 0.19 (3.00-4.00)	0.89 ± 0.45 (0.00-2.00)	0.0001
3. Rising from sitting	3.60 ± 0.63 (2.00-4.00)	0.21 ± 0.41 (0.00-1.00)	0.0001
4. Standing	3.50 ± 0.67 (2.00-5.00)	0.48 ± 0.55 (0.00-2.00)	0.0001
5. Bending to floor	3.14 ± 0.85 (0.00-4.00)	0.35 ± 0.53 (0.00-2.00)	0.0001
6. Walking on flat surface	3.15 ± 0.71 (2.00-4.00)	0.18 ± 0.38 (0.00-1.00)	0.0001
7. Getting in / out of car	3.49 ± 0.56 (1.00-4.00)	0.71 ± 0.56 (0.00-2.00)	0.0001
8. Going shopping	3.89 ± 0.39 (2.00-4.00)	1.04 ± 0.51 (0.00-2.00)	0.0001
9. Putting on socks	2.95 ± 0.84 (0.00-4.00)	0.36 ± 0.58 (0.00-3.00)	0.0001
10. Lying in bed	2.95 ± 0.90 (0.00-4.00)	0.16 ± 0.37 (0.00-1.00)	0.0001
11. Taking off socks	2.60 ± 0.76 (0.00-4.00)	0.18 ± 0.41 (0.00-2.00)	0.0001
12. Rising from bed	3.18 ± 0.79 (1.00-4.00)	0.20 ± 0.40 (0.00-1.00)	0.0001
13. Getting in/out of bath	3.71 ± 0.66 (1.00-4.00)	0.86 ± 0.66 (0.00-2.00)	0.0001
14. Sitting	3.05 ± 0.88 (0.00-4.00)	0.26 ± 0.55 (0.00-3.00)	0.0001
15. Getting on/off toilet	2.94 ± 0.77 (2.00-4.00)	0.36 ± 0.45 (2.00-4.00)	0.0001
16. Heavy domestic duties	3.95 ± 0.27 (2.00-4.00)	1.10 ± 0.56 (0.00-4.00)	0.0001

17. Light domestic duties	2.50 ± 0.76 (0.00-4.00)	0.14 ± 0.38 (0.00-2.00)	0.0001
Total score			
Out of 96	81.09 ± 9.87 (41.00-96.00)	12.10 ± 6.26 (0.00-33.00)	0.0001
Percentage (%)	84.47 ± 10.28 (42.71-100.00)	12.60 ± 6.52 (0.00-34.38)	0.0001

Adverse Events

There were no adverse events associated with this trial.