	MSC	Method	MSC	Preparation of	Model	Groups of treatments	Follow	Assessment	Main outcome	Other outcomes
	source	of tissue	characterisati	MSC-CM		and via of	-up			
		extractio	on			administration	(days)			
Doghori M	Human	n Agrinatio	Flow	MSCa of passage	Murino Dichotio	DDM was administered	15	Stancelegiael	MSCs CM and DDM MSCs CM	MSC: CM_DDM and DDM MSC:
et al 2018	hone	Aspiratio	cytometry	4 at 80%	rat model Full-	once daily 6 days per	15	methods	increased the tensiometric properties	CM groups showed a significant
ct al. 2010	marrow		(CD73+	confluence were	thickness skin	week. CM was		tensiometric	compared to DMEM and PBM.	decrease in the three types of mast
	inuito ii		CD90+,	used. CM was	wounds, 12 mm,	administrated day 0 and		examination		cells and in the total number of mast
			CD105+,	collected.	on upper back.	1 intraperitoneally.				cells compared with controls
			CD34-, CD45-			- DMEM vehicle				-
)			(control),				
						- MSCs-CM,				
						- PBM				
						- PMB+ MSCs-CM. $(n=18/group)$				
Amini A et	Human	Aspiratio	Flow	MSCs of passage	Murine Diabetic	PBM was administered	15	Stereological	All treated groups significantly	Number of fibroblast and epidermal
al. 2018	bone	n	cytometry	4 at 80%	rat model. Full-	once daily, 6 days per	15	methods.	enhanced wound healing compared to	cells, the lengths of blood vessels.
	marrow		(CD73+,	confluence were	thickness skin	week. CM was		tensiometric	controls. The extent of healing was	bFGF and SDF-1a expression were
			CD90+,	used. CM was	wounds, 12 mm,	administrated day 0 and		examination,	significantly greater in the MSCs-	significantly higher in MSCs-
			CD105+,	collected.	on upper	1 intraperitoneally.		qRT-PCR	CM+PBM group.	CM+PBM group.
			CD34-, CD45-		thoracic and	- DMEM vehicle				
)		lumbar regions.	(control),				
						- MSCS-CM,				
						- PDM - PMB+ MSCs-CM				
						(n=18/group)				
						PWLLLT was				
						administered				
			Flow		Murine. Diabetic	once daily, 6 days per				
			cytometry	MSCs of passage	rat model. Full-	week. MSCs-CM was		Macroscopic	PWLLLT and MSCs-CM, alone or in	
Pouriran R	Human	Aspiratio	(CD105+,	4 at 80%	thickness skin	administrated twice	15	appearance	combination, improved biomechanical	PWLLLT was more effective
et al. 2016.	marrow	n	CD90+, CD73+	used CM was	on the thoracic	Non treated	15	(photography),	parameters in the wound.	compared to MSCs-CM.
	marrow		CD34- CD45-	then collected.	and lumbar	- MSCs-CM		examination		
).		regions.	- PWLLLT,				
			,		e	- MSCs-CM+PWLLLT				
						(n=7/group)				
Kouhkheil	Human	Aspiratio	Flow	MSCs of passage	Murine. MRSA	PBM was	15	Clinical	There was a significant decrease in	PBM+MSCs-CM, PBM, and MSCs-
R et al.	bone	n	cytometry	4 at 80%	rats infected.	administeredonce daily,		observation,	colony-torming units in PBM+ MSCs-	CM groups significantly increased
2019	marrow			confluence were	Full-thickness	o days per week. 50 µl		microbiological,	Civi and PBM groups compared to	wound strength compared with the
				collected	wound 15 mm	administrated from day		and	connois.	and PBM groups had more stable
				concettua.	on the back.	zero until day 3.		und		MCs, less significant degranulated and

Table S1. Studies regarding mesenchymal stem cell- conditioned medium for treating wounds combined with other treatmetns.

						-Control - PBM - MSCs-CM - PBM + MSCs-CM (n=18/group)		stereological analyses		disintegrated MCs and less significant total number of MCs compared with the control group.
Fridoni M	Human	Aspiratio	Flow	MSCs of passage	Murine. MRSA	PBM was administered	15	Histology (HE),	PBM+ MSCs-CM hastened wound	PBM+ MSCs-CM, MSCs-CM, and
et al. 2019	bone	n	cytometry	4 were used. CM	diabetic rats	once daily, 6 days per		IHC	healing process.	PBM groups showed a decrease in the
	marrow		(CD105+,	was collected.	infected. Full -	week. 500 μ l of the 10-				number of neutrophils and
			CD90+,		thickness	fold CM were injected				macrophages and an increase in the
			CD73+,		wound, 15mm	intraperitoneally daily				number of fibroblasts and
			CD34-, CD45-		diameter round,	from day 0 until day 3.				angiogenesis compared with those of
).		on the back.	-Control group,				the control group.
						- PBM,				
						- MSCs-CM				
						- PBM+ MSCs-CM.				
						(n=18/group)				

AT, Adipose tissue-derived; bFGF, basic fibroblast growth factor; AF, Amniotic fluid; BM, bone marrow; CM, Conditioned Medium; DFX, deferoxamine; DMEM, Dulbecco's Modified Eagle Medium; DP, dental pulp; EC: Endothelial-differentiated; ECM, extracellular matrix; EGF, epidermal growth factor; ELISA, Enzyme-linked immunosorbent assay; EVs, extracellular vesicles; exos; exosomes; HE, haematoxylin and eosin; hCB: human cord blood; hESC, human embryonic stem cell; IHC, immunohistochemistry; IF, immunofluorescence; MPF, micro-nano polylactic acid electrospun fibre; MSCs, Mesenchymal Stem Cells; MT, Masson's Trichrome; PBM, photobiomodulation; PBS, phosphate-buffered saline; PWLLLT, Pulsed Wave Low-Level Laser Therapy; qRT-PCR, real-time quantitative polymerase chain reaction; SVF, stromal vascular fraction; UCM, unconditioned medium; WB, Western blot; WJ, Wharton's jelly.