

Appendix S1

SUPPLEMENTARY RESULTS

The levels of matrix metalloproteinase (MMP)-9 in wound fluids increased significantly in venous leg ulcers that subsequently showed good healing of the transplanted autologous split-thickness skin graft vs venous leg ulcers with poor healing (STable I). The diagnostic value of

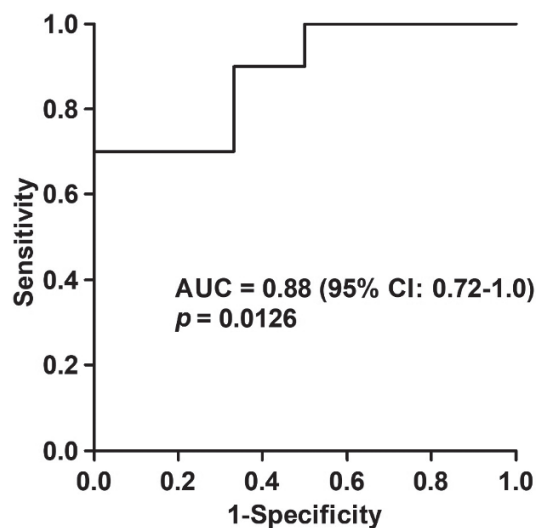
STable I. Relationships between preoperative biochemical wound fluid markers expressed per protein content, and split-thickness skin graft (STSG) healing outcome 12 weeks after transplantation of venous leg ulcers

	Split-thickness skin graft healing		<i>p</i> -value ^a
	Good (<i>n</i> = 10) Median (IQR)	Poor (<i>n</i> = 7) Median (IQR)	
LPS, pg/mg	56 (36–95)	330 (44–770)	0.313
TNF- α , pg/mg	45 (29–50)	56 (36–95)	0.368
HNE activity, pmol/mg	4.6 (0.28–9.1)	3.0 (1.0–4.2)	0.562
MPO activity, U/mg	0.80 (0.47–2.6)	0.84 (0.50–0.92)	0.635
MMP activity, pmol/mg	16 (13–120)	76 (35–120)	0.0727
MMP-2, ng/mg	4.8 (0–28)	6.7 (0.32–20)	0.713
MMP-9, ng/mg	3,700 (1,600–4,900)	1,200 (630–2,000)	0.0110
MMP-8, ng/mg	290 (160–490)	140 (100–230)	0.0559
TIMP-1, ng/mg	21 (16–31)	11 (9.9–37)	0.181

^aMann–Whitney *U* test.

IQR: interquartile range; LPS: lipopolysaccharide; MPO: myeloperoxidase; HNE: human neutrophil elastase; TIMP: tissue inhibitor of metalloproteinases; TNF: tumour necrosis factor.

the MMP-9 concentration when expressed to the protein content of the wound fluids was 0.88 (95% confidence interval 0.72–1.0, $p=0.0126$) from the receiver-operating characteristic analysis (SFig. 1).



SFig. 1. Receiver-operating characteristic (ROC) curve showing the sensitivity and specificity of diagnosing split-thickness skin graft (STSG) healing in relation to matrix metalloproteinase (MMP)-9 wound fluid concentration expressed to the protein content. AUC: area under the curve; CI: confidence interval.