



Cytokine profile of platelet lysate of patients with long-term non-healing limb ulcers

Lykov A.P. ^{1,2}, Surovtseva M.A. ^{1,2}, Kim I.I. ^{1,2}, Bondarenko N.A. ^{1,2},
Poveshchenko O.V. ^{1,2}

¹Research Institute of Clinical and Experimental Lymphology-filial of the Institute of
Cytology and Genetics SB RAS

²Meshalkin National Medical Research Center Ministry of Health of Russian Federation
Novosibirsk, Russian Federation
Novosibirsk - 2021



Platelet-rich plasma is considered as an alternative source of biologically active molecules involved into enhance regeneration/repair processes. Aim: comparative analysis of the levels of biologically active molecules in platelet lysate in patients with long-term non-healing limb ulcers of vascular genesis.

N= 30 patients



N= 11
patients
with
trophic
ulcers
(TU)

N= 19
patients
with
DFU

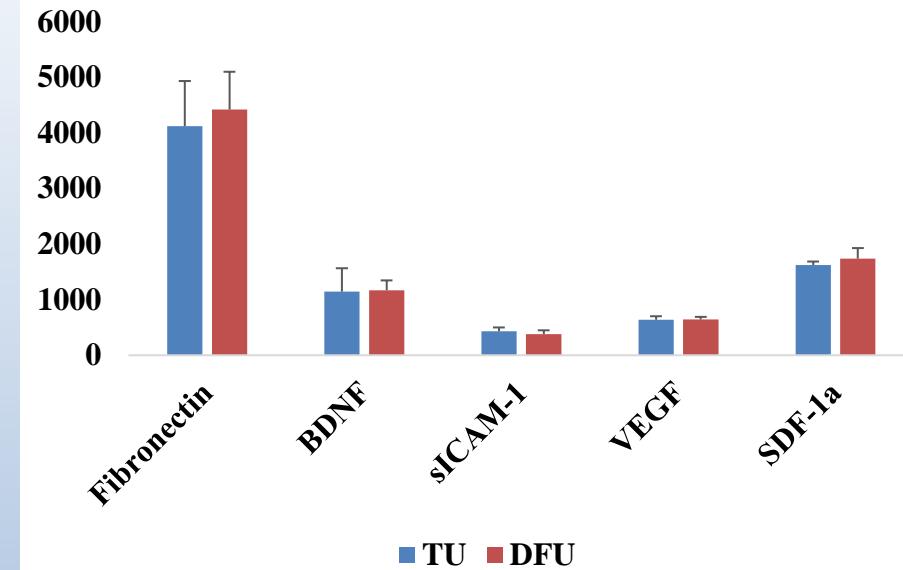
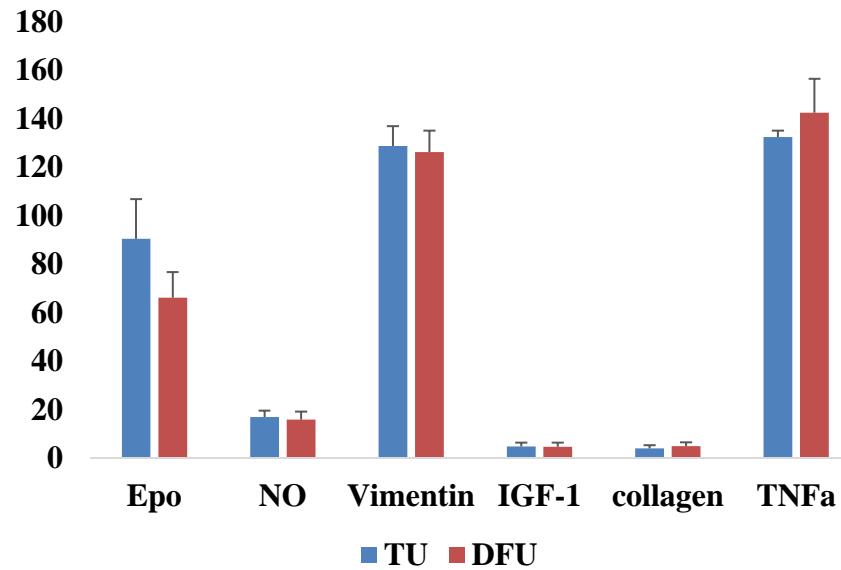
Platelet lysate

PRP

Platelet
frost|defrost

Mixt

EPO, IGF-1, BDNF, VEGF,
Collagen, Vimentin,
Fibronectin, SDF-1a,
sICAM-1, TNFa, NO



Correlation in DFU-group ($p<0.05$)

| | BDNF | TNF α |
|----------------|---------|--------------|
| Vimentin | 0.58 | -0.66 |
| TNF α | -0.5 | |
| | sICAM-1 | VEGF |
| SDF-1 α | 0.62 | 0.49 |
| Epo | | -0.7 |
| | | 0.56 |

Correlation in TU-group ($p<0.05$)

| | sICAM-1 | TNF α | VEGF | IGF-1 |
|----------------|----------|--------------|-------|-------|
| SDF-1 α | 0.94 | 0.79 | 0.79 | -0.72 |
| | Collagen | Vimentin | | |
| Epo | | -0.71 | -0.61 | |
| Fibronectin | | | -0.61 | |
| NO | | | -0.84 | |



Научно-исследовательский институт
клинической и экспериментальной лимфологии
филиал ФИЦ ИЦиг СО РАН

**THANK YOU FOR YOUR
ATTENTION!**