



EARLY SEPTIC SHOCK DIAGNOSIS SYSTEM BY NON- INVASIVE EXPLORATION OF ORAL MICROCIRCULATION



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Introduction

Our project proposal regards the creation of an experimental device (HD wireless videocapilaroscope) a hardware and software solution used for an early and non-invasive diagnosis in emergency situations.

Motivation and Description of Work

Diagnose and treatment (following software processing) of early systemic microvascular changes that precede the onset of septic shock and, consequently, multiple system organ failure. The possibility to detect early-phase microvascular anomalies using videocapilaroscopy offers new diagnostic and research opportunity.

Results

- 1, Early diagnostic clinical protocol of septic shock for incipient, targeted and preventive treatment
2. Oral microcirculation exploration and practical use (diagnose and monitoring of septic shock) in ICUs,
3. Succesfull use for other medical specialities (rheumatology, dermatology, vascular surgery, angio and phlebology, estetic surgery, dentistry)
4. Being a non-invasive method it does not involve ethical issues.

Conclusions

The possibility to detect early-phase microvascular anomalies using videocapilaroscopy offers new diagnostic and research opportunity.

