

### Introduction

Platelet-rich plasma (PRP) = biological substrate derived from autologous blood after centrifugation that contains live thrombocytes and stem cells with inflammation modulating and tissue repair potential

### Purpose of the work



Demonstrate that platelet-rich plasma (PRP) transplantation is a good alternative to 20% autologous serum

### Observation

The patient was 67 years old and had no previous pathological history. She was initially treated with autologous serum for 7 days following a left ocular burn with quicklime but without improvement.

The initial ocular examination of the left eye objective a visual acuity to count fingers at 3 meters, a limbic insufficiency on 360° with a subtotal corneal ulcer and folds of the descemet without passage to the eye fundus



**What to do**

Subconjunctival injection of PRP

**1**



Blood sampling

**2**



Centrifugation (7000 rpm) durant 5 min

**3**



Blood component

**4**



Collected PRP

**5**



Subconjunctival injection of PRP

### Discussion

Indicated in the treatment of burns with corneal ulceration, for ocular pain during keratitis or post-refractive surgery, for severe dryness with corneal damage and for preparation for corneal transplantation

This PRP contains 20 times more growth factors than autologous serum and this in a prolonged release thus accelerating cell regeneration, with an analgesic, anti-inflammatory and anti-microbial effects

### Conclusion

Easily reproducible and repeatable technique whose indications must be increasingly broad in order to restore the integrity of the corneal surface, thus improving the quality of life of our patients by restoring a visual potential