

CHAPTER VI

CONCLUSIONS

The overall results of this investigation indicated that:

- 1) The topical application of aloe vera gel powder (300 mg/kg body wt/day) could accelerate wound healing process.
- 2) The mechanisms underlying the different effects of the aloe vera gel powder on antiinflammation and wound healing could prevent the second and third-order arteriolar vasodilation in early phase and also enhance the second and third-order arteriolar vasodilation to be normal in late phase of inflammation, likewise, it could also deplete postcapillary venular permeability and leukocyte adhesion in the late phase of inflammation.
- 3) The antiinflammatory activities and wound healing properties of aloe vera were more efficient than normal saline.
- 4) This study showed the effectiveness of aloe vera gel powder on a partial thickness burn wound in rats, and it might be beneficial to do further investigation for its mechanisms.