

## CHAPTER 7

### CONCLUSION AND SUGGESTION

#### 7.1. Conclusion

This study has showed that intravenous administration of MSCs may have a role in improving atherosclerotic lesion in SD rats mediated in part by reducing of TGF- $\beta$ 1 expression in macrophage, but not by IL-1 $\alpha$  and IL-6.

#### 7.2. Suggestion

MSC effects on the microenvironment of atherosclerosis needs more exploration, because IL-1 $\alpha$ , IL-6, and TGF- $\beta$ 1 only can not explain whole process in progression or reduction of advance atherosclerosis plaque. The more exploration of MSC effects on advance plaque of atherosclerosis need to be accompanied by MSC homing process.