CHAPTER V

CONCLUSION

- 1. The molecular bases of β -thalassemia intermedia and β -thalassemia major in Maharaj Nakorn Chiang Mai Hospital were characterized and three genetic modifying factors, including types of the β -thalassemia mutations, the α -thalassemia 1 (SEA type) and the Xmnl- $^G\gamma$ polymorphism, were considered.
- 2. Eight β -thalassemia mutations producing both β^0 and β^+ -thalassemia were found with a β^0 -thalassemia producing mutation, the 4-bp (-TTCT) deletion, predominated followed by the HbE gene. The presence of $Xmnl^{-G}\gamma$ polymorphism was less frequent than the absent one. The α -thalassemia (SEA type) was the least frequent genetic modulating factor observed.
- 3. No consistent relationships between the three analysed genetic factors and the clinical severity in the studied β -thalassemic patients was demonstrated.
- Other genetic and non-genetic modifying factors particularly those associated with increased HbF and F cell production are needed to be further elucidated.

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