

The genetic screening information and outcomes: Case series reports at the Queen Savang Vadhana Memorial Hospital. Tewthanom K¹ Tunwongsa K², ¹ Faculty of Pharmacy, Silpakorn University, NakhonPathom, Thailand, 73000 ² Department of Pharmacy, Queen Savang Vadhana Memorial Hospital, Chonburi, Thailand 20110

Background: According to the genetic screening project with the cooperation between department of Medical Sciences, Ministry of public health and the Queen Savang Vadhana Memorial Hospital to develop better services for patients, the outcomes of this project has not been evaluated. **Method:** Twelve case series were reported by focus on safety or efficacy outcome of two drugs using genetic screening; PEG interferon alpha and Allopurinol. Two cases were monitoring therapeutic outcome of PEG interferon alpha, while the rest ten cases were monitoring safety outcome by screening HLA-B*58:01 for Allopurinol. The information retrieved from computerized hospital data base during 2018-2019. **Results:** The two cases who had genotype cc use PEG interferon alpha effectively. For the rest, nine patients who received Allopurinol, only one had HLA-B*58:01 but no adverse effect occurred, and one did not receive Allopurinol because of HLA-B*58:01 genotype. **Conclusion:** Genetics screening information could be helpful in effective and safety patients' outcomes. Further studies are needed to confirm in genetic monitoring in routine work at this setting.

Keywords: Genetics, PEG interferon, Allopurinol, Case series