

## Role of Pharmacogenetic monitoring in Oncology: Literature review

Karunrat Tewthanom



Sikpakorn University, NakhonPathom, TH

### Abstract

The trend in Pharmacogenomic knowledges has been widely popular and use in many fields, including oncology. The literature review found that there are many studies about the useful of pharmacogenomic monitoring in patients with cancer, both for therapeutics and adverse effect monitoring. An example of Pharmacogenomics in therapeutics monitoring is breast cancer, the HER 2 positive patients will be have more chance to achieve goal of therapy. In safety monitoring circumstance for example in chronic myeloid leukemia who receive tyrosine kinase inhibitor, with should be screen for UGT1A1 polymorphism because it impacts on adverse events for nilotinib.

Conclusion & Significance: From the literature review implies that pharmacogenetic monitoring has more important in oncology. It is useful for both therapeutic and safety monitoring

She is interested in research relate in Oncology especially adverse event monitoring in patient with cancer.

### Speaker Publications:

1. Tewthanom K. The Effect of Kahoot Web-Based Learning on Learning Skills of Pharmacy Students: The Trend in Clinical Pharmacokinetics Course for 2 Generations Indian Journal of Pharmaceutical Education and Research 2019;53(2): 212-15.
2. Tushar saha, Karunrat Tewthanom, Dispensing Errors Associated with Look-A-Like and Sound-A-Like Products and Remedies; Current status and Prevention Strategies. IJPPR Human 2018;11(4)171-77.
3. Karunrat Tewthanom, Chanudom Cherachat, Chudaporn Sukkasem, Chosita Somwangprasert, Factor influencing transtuzumab cardiotoxicity in breast cancer:a case control study. Unity in Diversity and theStandardization of Clinical Pharmacy Services:Proceedings of the 17th Asian Conference on Clinical Pharmacy (ACCP 2017), July 28-30, 2017 Yogyakarta, Indonesia, edited by Elida Zairina, ISBN 9781138081727.
4. Wikawee Russameethum , Karunrat Tewthanom. RISK-BENEFIT OF HIGH DOSE METFORMIN BEYOND CURRENT EVIDENCE BASED PHARMACOTHERAPY. Thai Bull Pharm Sci. 2017;12(1):55-62.
5. Karunrat Tewthanom, Chanudom Cherachat, Chudaporn Sukkasem, Chosita Somwangprasert, Breast cancer therapy and cardiotoxicity of Trastuzumab in breast cancer patients. Veridian E-Journal 2017;4(2):1-18.

[6<sup>th</sup> International Conference on Clinical and Medical Oncology](#); Webinar / Online Event- June 08-09, 2020.

### Abstract Citation:

Karunrat Tewthanom, Role of Pharmacogenetic monitoring in Oncology: Literature review, Clinical Oncology 2020, 6<sup>th</sup>



### Biography:

Karunrat Tewthanom is assistant professor in clinical pharmacy at Silpakorn University. She has PhD. from Chulalongkorn University. She is the member of International society of Oncology Pharmacy Practitioner (ISOPP) since 2017 and participate in taskforce review of oncology pharmacy practice.

International Conference on Clinical and Medical Oncology;  
Webinar / Online Event- June 08-09, 2020 ( <https://oncologistsconference.euroscicon.com/abstract-submission> ).