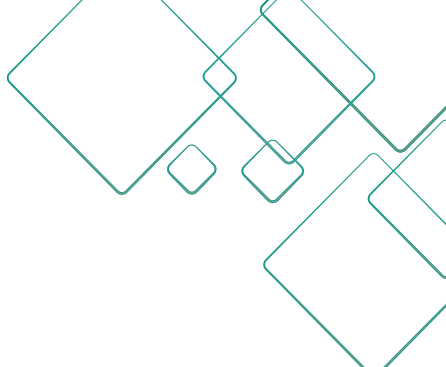




Research Relevance and Potential Impact

There is a low percentage of slow CYP1A2 enzyme activity among Emiratis which is directly related to the presence of low frequencies of mutant alleles in CYP1A2 gene. Those who are homozygote for alleles *1C and *3 are considered to be at the highest risk of drug toxicity and diseases as these alleles are associated with the slowest phenotype status. There is a high percentage of slow acetylators among Emiratis which is directly related to the presence of high frequencies of mutant alleles in NAT2 gene. The genotype frequency of the allele *5 was the highest in this population. Moreover, the genotype frequency of *5B/*7B, *5B/*6A, *7B/*14B and *4/ *5B were the highest in this population. Individuals who carried NAT2*6A/*6A, NAT2*6A/*7B, NAT2*7B/*7B, NAT2*5A/*5B, NAT2*5A/*5A genotypes might be at high risk of toxicity with some drugs and some diseases compared to others as these genotypes are associated with the slowest phenotype status. Thus, this has a great impact on drug treatment since drug can be given on an individual bases rather than collectively.

Relevant Publications

N/P

Career Aspirations

My objectives are to seek a teaching and research position in a research or academic institution where I can share my experience and knowledge with others excited about pharmacogenetics and where I can research, identify, and provide new challenges, perspectives, and approaches in the same field of my study. In addition, my grasp of clinical pharmacy, genetics and pharmacotherapies will provide me the essential tools to substantially contribute in the future research projects.

To pursue a challenging career in the field of pharmacy and genetics with continuous learning and contribution to the organization, and providing challenging work environment which allows me to grow professionally and academically.

To extend my knowledge and experience, to learn more about genetic polymorphisms and to test the study more extensively and relating it to daily practice.