Current demographic data shows that the North American population is aging and the percentage of older persons will increase. Elderly patients often suffer from multiple chronic conditions that affect their quality of life, use of health services, morbidity and mortality. Chronic co-morbidities – such as osteoarthritis, osteoporosis, hypertension and type 2 diabetes – and resulting polypharmacy have implications in oral health and increase the incidence of drug interactions (DIs) and adverse drug reactions (ADRs). Specific emphasis will be given to the commonly prescribed drugs by dentists – namely, local anesthetics, analgesics, antibiotics and antifungals.

**LEARNING OBJECTIVES**

- Increase awareness of demographic changes and increased elderly population
- Alert to potential for drug interactions in patients with co-morbidities and polypharmacy
- Apply knowledge to clinical practice

**NEUROPSYCHIATRIC DISORDERS – IMPLICATIONS FOR THE DENTAL PRACTICE (PM LECTURE)**

It is estimated that in North America, one in 20 adults suffer from a neuropsychiatric disorder. Among these disorders are schizophrenia, depression, epilepsy, Parkinson’s disease and Huntington’s disease. An estimated 6.8 million people die every year worldwide as a result of these disorders. Projections suggest that the percentage of persons with these disorders will increase. Care for patients with neuropsychiatric disorders needs a specific approach. Dental professionals must be aware of the possible consequences of these disorders on oral health. It is necessary for dentists to develop diagnostic skills to treat the patients affected by these neuropsychiatric disorders. In this lecture we will discuss the pathophysiology and pharmacotherapy of these disorders and the implications to dental care. Also, we will review the potential adverse drug reactions (ADRs) and drug interactions (DIs) that may occur in these individuals, particularly due to polypharmacy, and behavioural changes inherent to these disorders. Finally, dental management and specific treatment plans will be reviewed.

**LEARNING OBJECTIVES**

- Recognize the prevalence of neuropsychiatric disorders
- Understand the pathophysiology and pharmacotherapy of these disorders and consequences to oral health
- Introduce the appropriate procedures in dental practice required to optimize dental care in these patients
This core course is free for current AGD members, but registration is required to gain acceptance into the course. There will be no onsite registration and you will be turned away from the venue. There is limited attendance to the course. Your credit card will be taken and any cancellation within three weeks of the course will have a $50 charge. AGD reserves the right to cancel or alter the course. The exact location of the course will be emailed within one month of the course. This is the only form of communication for the location of the course.

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Dr. Aviv Ouanounou is an assistant professor of pharmacology at the faculty of dentistry, University of Toronto. He received both his DDS and MSc at the University of Toronto. He teaches pharmacology to undergraduate and graduate students and is also a clinical instructor at the clinical comprehensive program for third and fourth year dental students. Dr. Ouanounou won several Dental Student’s Society teaching awards including “Best Teacher of the Year Award” in 2013. He is a member of the American Academy of Pain Management and the American College of Clinical Pharmacology. He also maintains a general private practice in Toronto.

Dr. Jose Lança is an assistant professor of pharmacology in the faculties of dentistry and medicine, University of Toronto. He is the director of several undergraduate and postgraduate courses in pharmacology and therapeutics. He is a member of several scientific organizations, including the American College of Clinical Pharmacology and American Society for Neuroscience. He authored peer-reviewed research, six chapters in pharmacology textbooks, and continuing education, presenting an interdisciplinary approach to clinical pharmacology.

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3 lecture hours each. AGD Subject Code 142.

These courses are eligible for 3 core credits each.