

Section 6.2 – Teaching, Talks & Presentations

TUTORIALS GIVEN BY CANDIDATE

DATE	TOPIC	STUDENT GROUP (M.B.Ch.B)	DURATION	EVENT/VENUE
January 2018, 2019, 2020	Female Reproductive System	Semester 5	2 hrs	Medical School, UCT
February 2018, 2019, 2020	Leukaemia (tumour lysis, syndrome, gout, myeloma)	Semester 5	2 hrs	Medical School, UCT
February 2018, 2019, 2020, 2021	Diabetes type I	Semester 5	2 hrs	Medical School, UCT
February 2018, 2019, 2020, 2021	Diabetes type II	Semester 5	2 hrs	Medical School, UCT, Zoom
March 2018, 2019	Foetal Alcohol Syndrome/Alcohol Metabolism	Semester 5	2 hrs	Medical School, UCT
May 2018, 2019, 2021	Renal Failure	Semester 3	2 hrs	Medical School, UCT

May 2018, 2019	Blood Gases and Acid- Base Disturbances	Semester 3	2 hrs	Medical School, UCT
August 2018, 2019	Cerebrospinal Fluid Analysis	Semester 4	2 hrs	Medical School, UCT
August 2018, 2019	Prenatal Screening	Semester 4	2 hrs	Medical School, UCT
September 2018, 2019, 2020	Endocrine Causes of Hypertension	Semester 5	2 hrs	Medical School, UCT
September 2018, 2019, 2020	Diarrhoea and dehydration	Semester 4	2 hrs	Medical School, UCT
September 2018, 2019	Liver Disease	Semester 4	2 hrs	Medical School, UCT
October 2018, 2019	Iron metabolism, vit B12, folate, porphyria	Semester 4	2 hrs	Medical School, UCT
October 2018, 2019, 2020	Male Reproductive System (PSA, Hypogonadism)	Semester 4	2 hrs	Medical School, UCT

Key issues, take home messages, clinical relevance, areas requiring further exploration

It is a privilege to be involved in teaching. I am quoting a well known philosopher, Socrates: "I cannot teach anybody anything; I can only make them think." Another famous quote by Albert Einstein is: "Ones mind, once stretched by a new idea,

never regains its original dimensions". With this mindset it is that I present tutorials. Even though sometimes there are students who are struggling with some of the concepts, I try to explain it in the simplest way possible, hoping to make a difference.

Since COVID, however, it has for me become a bit more challenging to get the students involved in actively participating. It also is more difficult to gauge whether people are understanding a concept without facial expression, as lately most people turn their cameras off. Connectivity difficulties and the high price of data in South Africa are likely some of the contributing factors for this.

Nonetheless, the post-COVID way of teaching / tutoring students will remain challenging, but exciting at the same time. Tutoring students is something which I enjoy much and it comes naturally for me. It also forces one to read up about a topic to know as much as possible there is about it.

TALKS/LECTURES/SEMINARS GIVEN BY CANDIDATE

DATE	TOPIC	EVENT/VENUE
15/05/2018	The life-giving amines (Vitamins) – part 1	Combined Metabolic Meeting
05/03/2019	The life-giving amines (Vitamins) – part 2	Combined Metabolic Meeting
30/03/2021	Renin and Hyperaldosteronism – the renal-(o)-pressor	Combined Metabolic Meeting
19/07/2019	Development of an online results portal for laboratory results during Laboratory Information System (LIS) downtimes	PathReD 2019 conference, Ekurhuleni International Conference Centre, Johannesburg

20/07/2019	ChemHelp App – an automation script to improve reviewing of Trakcare Chemistry & Haematology results	PathReD 2019 conference, Ekurhuleni International Conference Centre, Johannesburg
26/09/2018	Chemical Pathology of Liver Disease	Analytical Staff Teaching (RXH and GSH)
20/02/2019	Renal failure overview	Analytical Staff Teaching (RXH and GSH)
01/10/2019	The Male reproductive system	Analytical Staff Teaching (RXH and GSH)
18/02/2020	Basic metabolic work-up	Analytical Staff Teaching (RXH and GSH)
02/02/2021	Acute Kidney Injury overview	Analytical Staff Teaching (GSH)
23/03/2021	Utility of HIL indices in Clinical Chemistry	Analytical Staff Teaching (RXH and GSH)

Key issues, take home messages, clinical relevance, areas requiring further exploration

Initially, I was anxious when giving a talk in front of an assembly of people. This became better as the field became better known and also as I learned to know more people and staff in the laboratory. One of the principles which I employed to help in giving a talk, which was taught to me by a colleague, Justine Cole, which was quite helpful was to assure/convince oneself of the following facts:

1. One can only do your best
2. You will never know everything
3. When giving a talk on a certain topic, it very likely that one knows more than most other people in the room on that specific topic, so speak to those to whom your topic is new – it will be good revision for the others in any case.

JOURNAL ARTICLES PRESENTED BY CANDIDATE AT UCT MEDICAL SCHOOL

DATE	TOPIC
26/03/2018	Congenital Hyperinsulinism
11/06/2018	TB nano discs in an MS assay to detect biomarkers in pulmonary and extra-pulmonary TB
13/08/2018	ZFN, TALEN and CRISPR
14/02/2019	Calcium stimulation testing
29/04/2019	Disorders of protein folding
20/05/2019	OSCE – Open source capillary electrophoresis and C4D (capacitatively coupled contactless conductivity detector)
20/06/2019	Investigations in disorders of sexual differentiation
29/07/2019	Ecdysteroids as performance enhancers
13/07/2020	Quality assurance – a touch of stats and a lot of common sense
01/12/2020	Machine Learning of plasma amino acid analysis
08/03/2021	History of Iron in Medicine

Reflective learning commentary

Presenting an article on its own is often daunting, especially when one doesn't have the proper background knowledge on the topic and also to gauge the level at which the audience will enjoy articles often differs. This was likely one of the most challenging things in my preparation of Journal Clubs, but luckily this becomes more easily judgeable as one gets to know the terms and concepts in the field. These meetings are held weekly and it represents a great learning opportunity to all listening and especially those presenting. There are often topics presented which one would never even heard of if one hadn't attended these meetings. The journal clubs has

stimulated many of the fields of study in which I then rabbit-holed into studying things in quite particular detail – often at the arguable extreme wastage of time. Nonetheless, preparing for a journal club is still an exciting activity and part of our job.