Almost a decade has passed since we first heard about Precision Medicine [1] from the National Research Council, USA. With more technology, expertise and understanding, the time has come for the Philippines to stop watching and instead, ride this tide of change, with the patient at the center.

The underlying concept of Precision Medicine is that disease treatment and prevention for individual patients are tailored on the basis of variability in genes, lifestyle and environment [2]. There are new technologies and expertise to look for patterns of effective treatments with targeted. It has genetic variations in subsets of patients. This means not just the traditional taking of personal profiles, medical and life histories, and patient preferences but also the effective use of electronic health records, genetic testing, big data analytics, and supercomputing – for the clinician to practice truly precise medicine [3].

Parallel and contributing to the application of Precision Medicine is the advent of Personalized Medicine. At the core is the patient who is no longer considered a part of a cohort, expected to respond to medication with some degree of uniformity and placed into a p-value, for significance. Patients are now participative in decision-making on treatment directions. Input and feedback from relevant specialists, paramedical personnel, even caregivers and relatives are welcomed in order to achieve desired treatment outcomes (so-called Inter-disciplinary/Multi-disciplinary team approach).

Patient data gives power to Precision Medicine. Clinical records and genetic attributes of patients and healthy volunteers become material in research, the results of which, influence individualized health care and further clinical studies. While patients could trust their clinicians and be persuaded to share their medical records, it is crucial that Data Privacy and Anonymity are protected. As more patient data are collected in large, multi-centered data banks, the formidable challenge is therefore in securing resource sharing.

Why do we need to get out of our comfort zones and join the increasing trend of Precision Medicine, particularly in the Asia-Pacific? The answer: Increasing patient population with chronic diseases and high cost of both treatment and informal care.

Asia-Pacific has a current estimated population of 4.3B, which is 60% of the world population with a growth rate of about 0.96 per year [4]. Eleven percent of that or 473M are estimated to be seniors – aged 60 years and above [5,6]. By 2050, the senior population is expected to rise by 25%. There is a significant subset to this: the oldest of the old – meaning aged 80 years and above – are increasing in population as well in the Asia-Pacific. In 1990, they were 0.8% and in 2012, they were 1.4% or 61.6M out of 440M seniors. By 2050, it is projected to increase by a staggering 4.4% [7].

Chronic diseases typically surface with the increasing senior population. The cost of diagnosis and treatment will keep on increasing. In mid-to-low income countries, informal care (unpaid caregivers), social care (community and residential care) and medical care, a uniform standard of care may not
be practiced, as such, the cost will vary and could be very large. Through the application of new technologies, diagnosis and treatment will be more efficient and cost-effective.

Let us get ready, let us learn and further understand how we can apply Precision Medicine in our approach to diagnosis and treatment. Let us collaborate with international institutions and clinicians who are currently involved in research that uses the tools of Precision Medicine.

We are hopeful that not too long from now, JMUST will be publishing articles that contribute to the body of knowledge in Precision Medicine, particularly in the Asia-Pacific.

In this third issue of JMUST, we have fully implemented our digital authoring platform and by using a dedicated electronic, publicly-accessible platform, we have joined the ranks of many established international scientific and medical journals.

We welcome all our readers to JMUST’s 10 articles: 5 of them are clinical or observational studies, 2 are case reports, 1 meta-analysis, 1 qualitative research on medical students, 1 on medical education, and this editorial. The wings of JMUST are getting stronger with more than 50 articles submitted per issue. We thank all the authors for taking the opportunity to research and publish. We are truly grateful for the continued belief in and support of our work in JMUST by USTFMS and USTH. The peer reviewers, associate editors and staff are exemplary in their dedication as always.
REFERENCES:


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