Neurorobotic in modern rehabilitation

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ABSTRACT

Summary: Neuro robotic technology has the promising potential for modern rehabilitation transformation from a human resource intensive conventional rehabilitation to a technology driven, consistent, mass, highly repetitive, intensive, reproducible rehabilitation intervention with comparable or even better outcomes. Cost effective development is warranted at the global, regional and even local avenues to make it practicable, affordable and widely accessible at various levels / settings of rehabilitation services. This session shall briefly highlight the potential development, application and integration of neuro robotic technology with that current of conventional rehabilitation practice within the Malaysian setting.

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Technology in medical laboratory: Improving turnaround time during pandemic

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ABSTRACT

Summary: The extent of laboratory management was only related to developing, maintaining, improving and sustaining the quality of accurate test results as a way of improving clinical outcomes. This was the emphasis prior to public health emergencies such as the COVID-19 pandemic, becoming a major global challenge. In the face of such pandemic, one of the main challenges was to be able to maintain an efficient turnaround time (TAT) in the face of increased sample workload with fewer staffing per shift as a strategy to minimize overcrowding. The industrial revolution 4.0 had brought with it the change agents which are automation, internet of things (IoT) and artificial intelligence (AI), which has been timely as the recent COVID-19 pandemic emerged. Total laboratory automation, remote data access, laboratory information management systems, digital pathology are among the disruptors that have been introduced to improve workflow efficiency and ultimately TAT. This talk will focus on the history trajectory of laboratory medicine management which includes ways and means medical laboratories overcome the challenges of the impact pandemics have on TAT and how technology has shifted to improve it.