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Data Science in Health Science- COVID Risk Mitigation- a cross sectional evaluation – Multi diagnosis,-Mucormycosis

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The data Science in Health Science has opened many opportunities for Overall outreach to world from India. India though is fortunate of having Volume of Patients, Varieties of cases , Velocities in Arrivals in Outpatient wards ,Veracity In Multilevel Diagnosis, Value based Schemes

,Validity of intervention with analytical skills, Variation of Parameters with Outliers, Venue difference in life style setting, Visualising clinical examination digitally ,Volatility In currency of Data, yet number of Published papers in impact journal are sparsely minimum about 100 papers in 25 % of Institutions though country have over 3500 plus medical Institutions, whereas a single institution from Mayo clinic and Massachusetts Institute Of Medical Science from US has 6000 papers annually as innovative papers from each . The major limitations are cross sectional interaction between subject matter experts, Time driven by attending Individual Patients by medical experts, Lack of awareness and competence in statistical skills, and a few work published were mostly restricted to descriptive inferential based hypothesis testing only .The diagnostic Analytics of Multivariate approach , Predictive analytics for prognosis to achieve Health care Economics ,Prescriptive analytics on Optimum Pharmacological Therapy with Minimum Interventional Procedures

reducing Hospital days are current demand when medical Services too becoming Competitive Industry .

Medical innovation makes breakthrough improvement in existing Protocol while continual improvement enhances daily practice of Physician. The data mining Techniques, Big data , Artificial Intelligence and other technologies are fuelling a wave of Health Innovations around the world .Learning by treating individuals

– takes its own time to diagnose and treat .Time depends on circumstances and opportunities in the working environment of practitioners. The fact is learning from data, Quick in process methodologies, and what is acquired over the period of 5 years, is to be understood in a short span of six months through analytics and literature survey. (Meta-analysis etc.). It is to be noted that pharmacological therapy and procedure are developed for prevalence of disease diagnosed in the population and not being developed for individual patients and hence multifactor clinical trials classifying cohorts , Evidence based single arm retrospective data analytics identifying risk factors and biomarkers , Prevalence estimation of cross sectional exploratory survey for epidemiological disease, Gynaecological dysfunction of middle aged women requiring benign elective surgery , Trauma care prognosis , long term Maintenance chronic kidney disease dialysis improvement and decision support model by machine learning solutions in this pandemic time have become necessary requirement to introspect and add value to establish new protocol towards New normal life . Thus there is a need for the present trend of discussing case reports to slowly also migrate to innovative decision support models for enhancing efficacy of treatment assuring safety. The patients too are becoming impatient and the providers has to follow ethical norms bringing out novel solutions than just doing clinical management.

The specific research papers pertinent to Covid Risk mitigation - Cross sectional Evaluation - Multi Diagnosis Mucormycosis was carried out with 102 parameters including follow-up outcome. The benefit of such a data science approach helps, is an evidence based presentation in Multi- speciality hospital in achieving professional excellence, Knowledge and wisdom for individual practice, Respect, and Promotion in hierarchical recognition by promotion.

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Key words: Data Science, Mucormycosis, Diagnostics devices, multi parameters, Predictive prognostics, Optimisation.

Biography

Anjana Venkatesh, is a Post Graduate in Family Medicine from Emeritus Institute- KG hospital and Post graduate Medical Institute Coimbatore, India. She has been an active participant in different national conferences and has won “Best PG award” for the year of 2018. She is a passionate, highly talented Family Physician with interests in Research in Medical Sciences.

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