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Electronic medical devices for different purpose and robot implementation

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Abstract

The aim is to overview different approach to electronic devices using in clinical practice. There are two main suggestions: to use open access to patient personal data and to close this information for physician only. Both variants have their advantages and disadvantages. In the case of open access the main perspective point of view consists of possibility of artificial intelligence exploration. But the main negative side consists of social effects for some persons. Limited variant as usual is out of global companies interests but very important for big companies and government services which are need in confidence. Limited access to personal data is a positive factor in private medical companies' actions, because many persons with chronic disease appreciate the monitoring under individual supervision.

Today we have a lot of types of electronic devices in medical practice. They are special for medicine or not only for it. For example, smartphones, smart watches and many others are not specific. Pulse oximeters, tonometers, glucometers are specific. The most important question is how we can organize the smart interaction with different equipment and analyze the results automatically and distantly. This presentation is devoted to comparison of different medical systems in data analysis and the perspectives of robots using in different medical tasks solving

Biography:

Vitaliy Mishlanov is a PhD, MD, full professor, Head of the Propaedeutic of internal diseases department #1 of the Perm State Medical University n.a. academician E.A. Vagner (Perm, Russia), Correspondent member of Russian academy of science. He is Secretary of Group 01.04. m-Health/e-Health of European respiratory Society, an active member of Russian respiratory society. He is author of 29 inventions in medicine, he published more than 300 papers, including 7 monographs, 4 textbooks. In the field of electronic medicine the construction of interactive automated questionnaire "Electronic polyclinic" is more significant; he is author of some new diagnostic methods, based on electrical impedance measurement. He is a prominent specialist in allergy-immunology, pulmonology, atherosclerosis, functional and laboratory diagnostics.

Speaker Publications:

1. Mishlanov V., Chuchalin A., Chereshnev V., Poberezhets V., Vitacca M., Nevzorova V., Aisanov Z., Vizel A., Shubin I., Nikitin A., Zulkarneev R., Khovaeva Y. Scope and new horizons for implementation of m-Health/e-Health services in pulmonology in 2019 // Monaldi Archives for Chest Disease 2019; volume 89:1112.
2. Poberezhets V, Pinnock H, Vogiatzis I, et al. Implementation of digital health interventions in respiratory medicine: a call to action by the European Respiratory Society m-Health/e-Health Group. ERJ Open Res 2020; 6: 00281-2019, https://doi.org/10.1183/23120541.00281-2019.
3. Bioethics, artificial intelligence and medical diagnosis / A.G. Chuchalin, V.A. Chereshnev, V.Ju. Mishlanov, Ya. V. Mishlanov, A.E. Nikitin, I.V. Shubin. Trans. by V. Alekseev.- Perm, E.A. Vagner, PSMU, 2019.- 184 p.
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