Battery chargers as forgotten issue

Dr Dragan Simpraga [1], *Dr Rajeev Rao Eashwari* [2]

Telehealth committee, Department of Health, Eastern Cape, South Africa

simpraga@intekom.co.za

The diffusion of the mobile computing and communication devices together with its accessories has been one of the fastest technologies to spread around the world. Numerous references indicate that number of all combined mobile devices in use can be counted in billions. In the same time is logical to understand that each of those devices come with its own battery charger. This work has objective to address this issue from both sides as challenge and opportunity.

Random selection of chargers for battery powered mobile devices and accessories are examined to determine connection type and characteristic of DC electrical supply to explore similarities and differences. Results are theoretically explored in eHealth scenarios with its possible ecological, economical, security and some other impacts.

Overall authors' conclusion is that existing situation can have serious influence on eHealth development, especially into rural areas and remote clinical environment up to extent that in worse case scenarios can compromise clinical and therapeutical outcome.

This work also would like to initiate discussion for possible solution. By our opinion, with good will from IT companies or government regulation authorities and users group this huge problem can be easily resolved if battery chargers are internationally standardised concerning type of connection and characteristic of DC electrical supply.