Title of Article: Development of a communication architecture for E-Health service delivery to rural communities in developing countries.

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Abstract: The lack of access to quality healthcare and sufficient manpower especially doctors in the rural areas is a major healthcare challenge faced by dwellers in rural communities in most developing countries. The intervention of Governments which range from the introduction of training programs aimed at producing health workers from schools of health technology and nursing, the recalling and deployment of retired nurses to rural areas has still not been able to generate the desired improvement in healthcare delivery as outbreaks of epidemics are still being reported in rural areas. This work presents an E-Health architecture which utilizes low cost sensors and communication devices to link the doctors in the urban areas with the patients in rural areas enabling the doctors interact with the patients. The system enables accurate and timely diagnosis of the patients and facilitates proper treatment plans. It also incorporates an epidemic alert which enables the tracking of diseases and the early detection and control of epidemics.