Pemilihan Alternatif Teknologi Internet of Things pada Pemantauan Pemeliharaan Unit Laboratorium Rumah Sakit = Internet of Things Technology Alternative Selection in Hospital Laboratory Maintenance

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Abstrak

Rumah sakit perlu memastikan bahwa semua peralatan laboratorium dapat mendukung diagnosa penyakit, penyembuhan penyakit dan pemulihan kesehatan. Keterlambatan pemeliharaan peralatan dapat menyebabkan kerugian pada pasien (layanan pasien) dan pihak rumah sakit. Sampai saat ini rumah sakit masih mengalami kesulitan dalam hal pemantauan performa peralatan. Penelitian ini bertujuan untuk merancang pemilihan teknologi Internet of Things untuk meningkatkan kinerja pemeliharaan peralatan laboratorium. Metode Fuzzy Analytic Hierarchy Process (F-AHP) digunakan untuk pembobotan faktor penerapan teknologi pemeliharaan dan metode Additive Ratio Assessment (ARAS) digunakan untuk membuat peringkat usulan teknologi pemeliharaan di laboratorium. Dari penelitian ini dihasilkan tiga urutan prioritas alternatif teknologi IoT pada pemeliharaan unit laboratorium di salah satu rumah sakit swasta Jakarta .....Hospitals need to ensure that their critical health equipment can work at the level of work required to meet the needs of patient care, especially in laboratories that support disease diagnosis, disease healing and health recovery. The impact of backlogs in maintenance can cause harm to patients (patient services) and to the hospital. Currently the maintenance process adopted by the hospital is still experiencing difficulties in terms of monitoring equipment maintenance and execution of laboratory equipment. This study aims to design the selection of Internet of Things technology in hospital laboratory maintenance by taking into account its application factors. Literature study is carried out to determine the criteria and sub-criteria in the application of technology adoption. Then the criteria and sub-criteria were validated by five experts and 27 validated sub-criteria were obtained. Criteria, sub-criteria and proposed maintenance technology in the laboratory are further processed using the Fuzzy Analytic Hierarchy Process (F-AHP) and Additive Ratio Assessment (ARAS) methods