

INTISARI

Damayanti, Kristina 2017. Analisis Hasil Kontrol Kualitas Pemeriksaan Glukosa Metode *Hexokinase* (HK), *Glucose Oxidase Peroxidase* (GOD-POD) dan *Glucose Dehydrogenase Pyrroloquinoline* (GDH-PQQ). Program Studi D-IV Analis Kesehatan, Fakultas Ilmu Kesehatan, Universitas Setia Budi. Pembimbing Utama : dr. M.I. Diah Pramudianti.Sp.PK(K), M.Sc, Pembimbing Pendamping : dr. Lucia Sincu Gunawan.M.Kes.

Pemantapan mutu internal adalah kegiatan pencegahan yang dilaksanakan terus-menerus oleh laboratorium untuk memperoleh hasil laboratorium yang tepat. Analisis data kontrol kualitas dilakukan pada alat *automated chemistry analyzer* dengan metode *Hexokinase* dan pada alat *point of care testing* (POCT) dengan metode GOD-POD dan GDH-PQQ.

Metode penelitian deskriptif dengan pendekatan *cross sectional*. Data diambil dari Laboratorium Patologi Klinik Rumah Umum Daerah di Surakarta dari bulan Januari 2016 sampai Maret 2017. Nilai bias metode HK, GOD-POD dan GDH-PQQ masuk dalam rentang kontrol dengan nilai bias -2,4 sampai 10,3; -4,9 sampai -1,4; -3,0 sampai -1,1 untuk level 1 dan -0,5 sampai 0,4 untuk level 2 (berurutan).

Nilai control metode HK ada yang masuk dalam aturan penolakan yakni 4_{1s} dan $10x$, nilai kontrol metode GOD-POD ada yang masuk dalam aturan peringatan yakni 1_{2s} dan aturan penolakan yakni $10x$ dan metode GDH-PQQ tidak ada aturan penolakan yang dilanggar. Perlu penelitian lanjutan secara *cohort prospective*.

Kata Kunci: Pemantapan Mutu Internal, Bias, Aturan Westgard, Kadar Glukosa

ABSTRACT

Damayanti, Kristina 2017. Analysis Quality Control Results Of Glucose Examination Using *Hexokinase Methode* (HK), *Glucose Oxidase Peroxidase* (GOD-POD) And *Glucose Dehydrogenase Pyrroloquinoline* (GDH-PQQ) method In Dr. Moewardi General Hospital Of Surakarta. D-IV Health Analyst Study Program, Health Science Faculty, Setia Budi University. Tutor I: dr. MI Diah Pramudianti.Sp. PK (K), M.Sc, Tutor II: dr. Lucia Sincu Gunawan M.Kes

Internal quality assurance is surveillance activities that are taken continuously by laboratory to obtain appropriate laboratory results. Data analysis of quality control was conducted in the automated chemistry analyzer instrument by HK method and in the point of care testing instrument (POCT) by GOD-POD and GDH-PQQ methods. The aim of this study was to analyze quality control results by HK method, GOD-POD and GDH-PQQ methods.

Descriptive research method with *cross sectional approach*. Data were obtained from Clinical Pathology Laboratory of Dr. Moewardi General Hospital in Surakarta from January 2016 until March 2017. Bias value of HK, GOD-POD and GDH-PQQ methods were entered within the control range with a bias value of -2.4 to 10.3; -4,9 to -1,4; -3.0 to -1.1 for level 1 and 0.5 to 0.4 for level 2 (respectively).

The control value of HK methods that included in the rules of rejection were 4_{1s} and 10x, the control value of GOD-POD methods that included in the rules of warning was 1_{2s} and rule of rejection was 10x, there were not rules rejection was at GDH-PQQ method. It is necessary to do advanced research with *prospective cohort*.

Keywords: *Internal Quality Assurance, Bias, Westgard rules*