

Deteksi basil tahan asam cairan serebrospinal metode sitosentrifugasi dengan ziehl neelsen dan auramine-o pada tersangka meningitis tuberkulosis = Detection of acid fast bacilli in cerebrospinal fluid by cytocentrifugation method with ziehl neelsen and auramine-o on suspected tuberculous meningitis / Yuni Kirana Wulandari

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Abstrak

ABSTRAK

Pendahuluan : Deteksi Basil Tahan Asam (BTA) Ziehl Neelsen cairan serebrospinal (CSS) di RSUPN dr Cipto Mangunkusumo tahun 2014 tidak pernah positif. Pewarnaan Auramine-O dapat meningkatkan sensitivitas deteksi BTA. Perlu modifikasi sitosentrifugasi pada pulasan BTA, agar dapat deteksi BTA lebih banyak dan cepat.

Metode: uji diagnostik pulasan BTA CSS Ziehl Neelsen metode non sitosentrifugasi, Cytospin, Cytopro serta Auramine-O Cytopro dibandingkan dengan baku emas biakan TB MGIT.

Hasil: Uji diagnostik BTA Ziehl Neelsen tanpa sitosentrifugasi, tidak dapat dinilai karena BTA tidak terdeteksi di semua sampel. Uji diagnostik Ziehl Neelsen Cytospin dan Cytopro sama yaitu sensitivitas 64%, spesifisitas 85%, NPP 54%, NPN 89 %. Uji diagnostik Auramine-O Cytopro, sensitivitas 91%, spesifisitas 26%, NPP 26%, NPN 91 %.

Kesimpulan: Pulasan BTA CSS metode sitosentrifugasi dapat menggantikan metode non sitosentrifugasi. Pulasan BTA CSS Auramine-O dapat me rule out diagnosis meningitis TB.

ABSTRACT

Introduction: Detection of AFB from CSF with Ziehl Neelsen staining in 2014 at dr Cipto Mangunkusumo general hospital never gives positive result. Staining with Auramine-O smear staining can increase its sensitivity. Acid fast bacilli cytocentrifugation is needed as a modification in AFB slide preparation to gain more bacilli faster.

Methods: Diagnostic performance of AFB slide prepared by non cytocentrifugation, Cytospin, Cytopro with Ziehl Neelsen stain, prepared by cytopro with Auramine-O stain are compared to TB MGIT as a gold standard.

Results: Acid fast bacilli slide prepared with non cytocentrifugation method and stained by Ziehl Neelsen cannot be obtained because AFB was not detected in all samples. Acid fast bacilli slide prepared with Cytospin and Cytopro and stained with Ziehl Neelsen has sensitivity (64%), specificity (85%), PPV (54%), 89% NPV. Acid fast bacilli slide prepared with Cytopro and stained with Auramine-O has sensitivity (91%), specificity (26%), PPV (26%), 91 % NPV.

Conclusion: Detection of AFB from CSF with cytocentrifugation method can replace non cytocentrifugation method. Acid fast bacilli slide prepared cytocentrifugation and stained by Auramine-O can rule out Tuberculous meningitis.