

Development of Passive Hemagglutination Assay of Measles and Utilization in Serological Diagnosis Zhang Rongzhen, et al., Institute of Epidemiology and Microbiology, Chinese Academy of Preventive Medicine, Beijing

The passive hemagglutination assay (PHA) was developed. Preparation of antigen and its stability, sensitivity and specificity was studied. The result showed that the yield of ultrasonic treated antigen is high and its titer has no any change in 4°C storage at least 1 month. The sensitized sheep erythrocyte with this antigen have a high specificity and sensitivity. The lysophilized blood cells could stored for a long time in 4°C. A comparison of PHA with hemagglutination inhibition test was carried out by examination of 354 samples of sera from heal-

thy children. The GMT of titer of antibodies of measles were 26.20 and 13.92 respectively. The result showed that the two methods were highly related.

Key words Measles Passive hemagglutination Preparation of antigen

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呼吸道肺炎杆菌血清分型及其流行病学意义

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我们对临床分离的主要源于呼吸道的肺炎杆菌用本实验室制备的32型标准抗血清以协同凝集试验方法进行分型,并对其临床流行病学意义加以分析。

材料和方法 282株肺炎杆菌来自265例病人,其中痰标本207份,血12份,尿40份,余来自胆道等处。标本接种于麦康凯平板培养基,36°C过夜培养,挑3~5个典型菌落种于Worfel-Ferguson斜面,室温培养36~48h,用PBS稀释至含菌10^9~10^12/ml。将包被于SPA上的各型抗体反应液滴至玻片,取一环上述抗原与之混合,2分钟以内出现凝集为阳性,未见凝集为阴性。

结果与讨论: 282株细菌中195株可被分型,分型率为69.1%。K1和K33最为常见,分别占全部菌株的12.4%和9.5%。207株呼吸道来源的肺炎杆菌,144株分出型别,分型率为69.6%。32个血清型中共分到26个型,6个未分到的型别为:K11、K12、K17、K22、

K31和K35。40份尿标本中,23份分出型别,分布在15个型之中。12份血标本全部分出型别,分属8个型。胆汁等处来源的23株标本中,16株可被分型,见于9个型之中。呼吸道肺炎杆菌常见血清型分离菌株数及频率(%)分别为:K1 30株(14.5%),K33 19株(9.2%),K16 14株(6.8%),K3 K18 12株(5.8%),K82 9株(4.3%),K6 K2 6株(2.9%),K27 5株(2.4%),K21 4株(1.9%)。

结果表明K1和K33为上海地区呼吸道及泌尿道等部位感染最常见型别。本文未能证明某一型造成院内流行,但观察到有局部区域交叉感染。肺外来源细菌型别与呼吸道常见型别相同,提示其来源可能互为因果,K1和K33型明显多见可能系它们较其他型别更具有传染病人和传播的条件或因素。

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