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Clinical evaluation of Bruker Microflex MS versus bioMérieux VITEK MS, two matrix-assisted laser

desorption ionization-time of flight mass spectrometry (MALDI-TOF) methods, for the identification of

clinically significant pathogens.

Клиническая оценка Bruker Microflex MS против bioMérieux VITEK MS, два MALDI-TOF метода, для идентификации

клинически значимых патогенных микроорганизмов.

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Вывод: Обе системы отлично обеспечивают точный диагноз на 24-48 часов

быстрее, чем стандартные методы. Оба они могут быть легко включены в рутинные диагностические процедуры, потому что

удобны (VITEK MS более чем Bruker Microflex MS), имеют короткое время выдачи результата и низкие затраты на анализ.

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Objective: To evaluate two commercially available MALDI-TOF MS systems, Microflex MS® (MMS;

Bruker) and VITEK MS® (VMS; bioMérieux) for identification (ID) of clinically significant pathogens.

Methods: Clinically relevant broad diversity of bacterial and fungal isolates obtained during a 5-

consecutive month of routine laboratory processing of clinical specimens were subjected to ID by the

MMS and VMS in parallel with conventional phenotypic system (CPS; VITEK 2). For the MMS the

isolates were tested in duplicates directly and after pretreatment; yeasts were pretreated with 25% formic

acid. Identification was provided with accompanying scores (<1.7 =no reliable ID; ≥ 1.7 - <2.0 =ID at genus

level; ≥ 2.0 =ID at species level). For ID with VMS single deposits of the same sets of isolates were tested

in duplicates directly on MALDI-plate. Species were separated by a threshold of 50% matching peaks.

Interpretation of results was according to the manufacturers' protocols. Discrepant results were resolved

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one way or the other by 16S rRNA gene sequencing.

Results: A total of 1007 pathogens comprising 503 Gram-negative bacilli (GNB), 16 Gram-negative cocci

(GNC), 266 Gram-positive cocci (GPC), 20 Gram-positive bacilli (GPB), 188 yeasts and 9 molds, made

up of 48 genera and 102 species were tested. MMS and VMS correctly ID 98.1% and 99.3%, and 92.8%

and 96.3% of the isolates to genus and species levels, respectively. Both systems as well as the CPS

correctly ID all species of the family Enterobacteriaceae, *Pseudomonas* spp., and *Acinetobacter*

baumannii. And all Gram-positives to genus level. All *Candida albicans* and other species were correctly

ID by both systems. Discrepant results were resolved by 16S rRNA sequencing more in favor of VMS.

MMS miss-identified 2 *S. mitis* and *S. pneumoniae*. One strain identified as *Ralstonia picketti* by VITEK

2 and VMS was identified as *R. insidiosa* and *R. solanacearum* by sequencing.

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Conclusion: Both systems performed excellently well in terms of providing accurate diagnosis 24-48h

earlier than the CPS. Both can be easily incorporated into routine diagnostic procedures because they are

user-friendly (VMS>MMS), have short turn-around time and the cost analysis is low.

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