优化的预包被式多探针荧光原位杂交技术可提高白血病细胞遗传学异常的检测效率(点击查看pdf全文)

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Author(s): Optimization of pre-coated multi-probe fluorescencein situhybridization for cytogenetic detection of acute leukemia

关键词: 多探针FISH; 优化; 细胞遗传学异常

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摘要: 目的探讨对预包被式多探针荧光原位杂交（FISH）技术进行优化在检测白血病细胞遗传学异常的意义。方法141例初
诊为ALL或AML/MDS的患者骨髓标本，行预优化的包被式多探针FISH流程检测（在原始流程的基础上增加了调整细胞密度、
蛋白酶消化步骤），其中35例行常规流程检测，对比优化前后对白血病细胞遗传学异常的检测成功率与阳性位点检出率。结果
对多探针FISH实验流程进行优化后，ALL的检测成功率由85.3%提高到100%，阳性位点检出率由5.1%提高到8.6%；AML/
MDS的检测成功率由67.4%提高到99.8%，阳性位点检出率由3.5%提高到6.0%，差异均具有统计学意义（P<0.01）。结论通过
对常规预包被式多探针FISH系统检测流程进行优化，显著提高了白血病细胞遗传学异常的检测效率，增强了该技术的临床实
用性。

Abstract: ObjectiveTo optimize pre-coated multiple-probe fluorescencein situ hybridization (FISH) to improve its efficiency
in cytogenetic diagnosis of acute leukemia. MethodsThe original multiple-probe FISH techniques were optimized by
adjusting the cell density and adding a process of protease digestion. Cytogenetic anomalies were detected in141patients with
acute lymphocytic leukemia (ALL) or acute myeloid leukemia/ myelodysplastic syndromes (AML/MDS) using the modified
technique, and 35of the patients were also examined using the original technique. The successful detection rate and positive
site detection rate were compared between the modified and original techniques. ResultsModification of the pre-coated
multiple-probe FISH technique resulted in an significant increase of the successful detection rate (from85.3% to100%) and the
positive site detection rate (from5.1% to8.6%) in ALL patients; in AML/MDS patients, the successful detection rate was
significantly improved from67.4% to99.8% and the positive site detection rate from3.5% to6.0% (P<0.01). ConclusionThe
modified pre-coated multiple-probe FISH technique can significantly increase the diagnostic efficiency of cytogenetic
abnormalities in leukemic patients.

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