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论文

骨髓增生异常综合征患者EPO水平的测定及其受体的表达

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摘要:

目的 研究骨髓增生异常综合征(MDS)患者骨髓促红细胞生成素受体(EPOR)的表达以及血清促红细胞生成素(sEPO)水平与临床的关系,为MDS患者贫血采用EPO治疗提供理论依据。方法 对45例MDS患者采用RT一PCR法检测EPOR的表达,以夹心酶联免疫法(ELISA)测定sEPO含量,按照WHO分类诊断标准分类,其中低危组20例,包括难治性贫血(RA组)11例、难治性血细胞减少伴多系发育异常(RCMD组)9例;高危组25例,包括难治性贫血伴原始细胞增多 1 (RAEB 1组)10例、难治性贫血伴原始细胞增多 2 (RAEB 2组)15例。结果45例MDS患者有25例表达EPOR,低危组患者的EPORmRNA平均表达量为0.6862±0.3725,与对照组无显著差异(P>0.05),高危组患者EPORmRNA平均表达量为0.4023±0.1385,显著低于对照组0.8347±0.2541(P<0.05)。低危组患者sEPO平均含量为(13.91±7.70) IU/L,显著低于对照组(20.57±9.06) IU/L(P<0.05);高危组sEPO平均含量为(30.68±14.08) IU/L ,显著高于对照组(20.57±9.06) IU/L(P<0.05)。结论 SEPO水平减低在低危组起重要作用;高危组EPOR表达降低或缺失,但SEPO水平显著升高,表明EPOR表达水平降低为高危MDS患者红系异常的主要原因,对MDS患者临床采用EPO治疗具有指导意义。

Level of etythropoietin and expression of the etythropoietin receptor in Myelodysplastic Syndrome

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关键词: 促红细胞生成素: 促红细胞生成素受体: 骨髓增生异常综合征; 贫血

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Abstract:

Objective To determine expression of etythropoietin receptor(EPOR) and level of serum etythropoietin (sEPO) in Myelodysplastic Syndrome(MDS) and their relation with clinical status of MDS patients, so as to 45 MDS patients using reverse transcription polymerase chain reaction (RT-PCR), and the level of sEPO was detected by enzyme linked immunosorbent assay (ELISA) in 11 patients with refractory anemia (RA), 9 patients with refractory cytopenia accompanied by multilineage(RCMD), 10 patients with refractory anemia accompanied by excessive blasts-1(RAEB-1) and 15 patients with refractory anemia accompanied by excessive blasts-2(RAEB-2). The patients were divided into the low-risk group(RA and RCMD) and the high-risk group(RAEB-1 and RAEB-2) according to the categorization of WHO. Results EPOR was expressed in 25 among 45 MDS patients. The relative level of EPOR mRNA expression had no significant difference between low-risk MDS patients and the control group (0.6862 ± 0.3725 vs $0.8347 \pm$ 0.2541, P>0.05), while in high-risk MDS patients it was significantly lower than that in the control group (0.4023+0.1385 vs 0.8347+0.2541)(P<0.05). The level of sEPO in low-risk MDS patients was significantly lower than that of the control group $\lceil (13.91 \pm 7.70) \text{ IU/L vs } (20.57 \pm 9.06) \text{ IU/L},$ P<0.05]; while in high risk MDS patients $\lceil (30.68 \pm 14.08) \text{IU/L} \rceil$ it was significantly higher (P<0.05). Conclusion Lower sEPO level might play an important role in low-risk MDS patients. Expression of EPOR in high-risk patients was decreased or deleted, while the level of sEPO was significantly increased. Decreased expression of EPOR might cause erythroid abnormality in high-risk MDS patients, thus providing a clue for the EPO therapy for MDS.

Keywords: Etythropoietin, Etythropoietin receptor, Myelodysplastic syndrome, Anemia

收稿日期 2010-08-27 修回日期 网络版发布日期

DOI:

基金项目:

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