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## 胃癌组织EB病毒感染与miR-101 EZH2 COX-2 表达关系的研究\*

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## Correlation of Epstein-Barr virus infection with the expression of miR-101, EZH 2, and COX- 2 in gastric cancer

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摘要

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## 摘要

目的: 探讨甘肃省武威地区胃癌患者EB病毒(Epstein-Barr virus, EBV)感染状况及miR-101、EZH 2、COX-2在EBV相关胃癌发生发展中的作用。方法: 应用组织芯片、原位杂交和免疫组织化学技术检测120例胃癌组织及相应癌旁组织中EBV小RNA(EBER)、miR-101、EZH 2、COX-2的表达情况。结果: 120例胃癌组织EBV阳性率为10.0%, EBV相关胃癌有较少的淋巴结转移, 好发于贲门、胃体(P<0.05)。miR-101、EZH 2、COX-2在120例胃癌组织和相应癌旁组织的阳性率差异有统计学意义(P<0.05)。12例EBV阳性胃癌组织miR-101、EZH 2、COX-2和108例EBV阴性胃癌组织3个分子的表达率差异有统计学意义(P<0.05)。胃癌组织EBV感染和miR-101表达呈正相关, EBV相关胃癌组织miR-101表达和淋巴结转移、COX-2、EZH 2表达均呈负相关(P<0.05)。结论: EB病毒感染与武威地区胃癌的发生有一定关系; EBV相关胃癌和EBV阴性胃癌在淋巴结转移和发生部位的差异有统计学意义; miR-101、EZH 2、COX-2与EB病毒相关胃癌的发展有一定关系。

关键词: EB病毒, 胃癌, 原位杂交, miR-101

## Abstract :

Objective: This study was conducted to investigate Epstein-Barr virus (EBV) infection in gastric cancer in Wuwei area of Gansu province (China) and the roles of miR-101, EZH 2, and COX- 2 in EBV-associated gastric carcinomas (EBVaGC). Methods: Tissue microarray technique, immunohistochemistry, and in situ hybridization were performed to detect the expression of EBV-en-coded small RNAs (EBERs), miR-101, EZH 2, and COX- 2, in gastric cancer tissues (n=120) and the corresponding adjacent tissues (n=120). Results: The positive rate of EBV was 10.0% in 120 cases of gastric cancer tissues. EBVaGC was not significantly associated with lymph node metastasis and developed most often in the cardia and body (P<0.05). The differences in the positive rates of miR-101, EZH 2, and COX- 2 in 120 cases of gastric cancer tissues and corresponding adjacent tissues were significant (P<0.05). The differences in the positive rates of miR-101, EZH 2, and COX- 2 in 12 cases of EBVaGC and in 108 cases of EBV-negative gastric cancer (EBVnGC) tissues were significant (P<0.05). The infection of EBV in gastric cancer tissues was positively related to miR-101 expression. By contrast, miR-101 expression was negatively related to lymph node metastasis and expression of COX-2 and EZH 2 in EBVaGC tissues (P<0.05). Conclusion: EBV infection was related to gastric cancer in Wuwei area of Gansu province. EBVaGC and EBVnGC have significant differences in lymph node metastasis and in the location of cancer. MiR- 101, EZH 2, and COX- 2 were related to the development of EBVaGC.

Key words: in situ hybridization gastric cancer miR- 101

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