

论著

## 利用PC-3M-1E8细胞亚系建立人前列腺癌淋巴道转移模型

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**摘要** 目的 建立裸鼠人前列腺癌淋巴道转移模型以便用于转移机制和控制方法的研究。方法 分别采用原位接种及皮下接种两种方法将高转移性前列腺癌细胞亚系PC-3M-1E8接种于裸小鼠体内, 40 d后检测其成瘤情况及局部淋巴结自发性转移情况。结果 原位接种法的裸小鼠成瘤率及淋巴结转移率均达12/12, 皮下接种法的裸小鼠成瘤率也达12/12, 但未检测到任何淋巴结转移。结论 对该细胞株采用原位接种法建立裸鼠人前列腺癌淋巴结转移模型获得成功, 为前列腺癌转移机制的研究及试验性药物治疗提供了模型。

**关键词** [前列腺癌](#) [肿瘤细胞](#) [肿瘤转移模型](#) [原位接种](#)

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## Establishment of a lymph node metastatic model with human prostate cancer cell subclone PC-3M-1E8

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### Abstract

**AIM** To establish a lymph node metastatic model for studying the metastatic mechanism and experimental therapy of prostate cancer. **METHODS** After human prostate cancer cell subclone PC-3M-1E8 was inoculated under orthotopic or ectopic environments in nude mice, we employed gross and histological examinations to determine tumorigenicity and the production of lymph node metastasis. **RESULTS** PC-3M-1E8 cells were equally tumorigenic with 12/12 frequency in the prostate and subcutis. They exhibited highly metastatic potentiality with 12/12 lymph node metastasis after orthotopic implantation in nude mice for 40 d, whereas showed no lymph node metastasis after ectopic implantation in nude mice. **CONCLUSION** The results demonstrated that establishment of a lymph node metastatic model using orthotopic implantation in nude mice is successful, and it may become a valuable model for the study of metastatic mechanism and experimental therapy of prostate cancer.

**Key words** [prostate neoplasms](#) [tumor cells](#) [neoplasms metastatic model](#) [orthotopic implantation](#)

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