



### 人蛔虫提取物对Lewis肺癌小鼠的抑瘤作用

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### Anti-tumor Effect of the Whole Worm Extract of *Ascaris lumbricoides* on Lewis Lung Carcinoma in Mice

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摘要

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摘要 为探讨人蛔虫提取物对肿瘤的作用及其免疫学机制, 将45只C57BL/6小鼠随机分为A、B、C、D和E等5组, 每组9只, 其中B、D组分别为A、C组的实验对照组, E组为阴性对照组, 不做任何处理。A组每鼠隔天腹腔注射0.1 ml 蛔虫提取物(BEAL), 10 d后每鼠右前肢腋下皮下接种0.1 ml Lewis肺癌细胞(LLC), 进行肿瘤造模; B组小鼠注射等量生理盐水, 10 d后进行肿瘤造模。C组每鼠注射0.1 ml LLC细胞悬液进行肿瘤造模, 2 d后腹腔注射0.1 ml BEAL, 隔天1次, 共注射5次; D组小鼠肿瘤造模2 d后, 注射等量生理盐水, 隔天1次。记录各组小鼠成瘤时间, 称瘤重, 计算抑瘤率。结果显示, A、B、C和D组小鼠的成瘤时间分别为(7.0±1.1)、(6.0±0.7)、(9.0±1.2)和(7.0±0.9) d。BEAL提前干预的A组小鼠肿瘤重量为(722.2±413.5) mg, 显著重于其对照组B组[(338.9±282.2) mg] ( $P<0.05$ )。小鼠荷瘤后BEAL干预的C组抑瘤率最强, 为33.3%, 其肿瘤重量[(237.8±101.8) mg]明显轻于对照组D组[(356.7±176.9) mg] ( $P<0.05$ )。提示BEAL可影响肿瘤的形成, 在一定条件下具有明显的抑瘤作用。

关键词: 人蛔虫 提取物 Lewis细胞 抑瘤作用

Abstract: Forty-five C57BL/6 mice were randomly divided into five groups (A-E). Group B and D served as the control group of A and C. Each mouse of group A was intraperitoneally injected with 0.1 ml whole worm extract of *Ascaris lumbricoides* every other day, and 10 days later injected with 0.1 ml Lewis lung carcinoma (LLC) cells at right axillary subcutaneously region. Mice of group B were injected with normal saline and then developed tumor model. Each mouse of group C was injected with 0.1 ml LLC cells, and two days later, injected with 0.1 ml whole worm extract of *A. lumbricoides* every other day for 5 times. After the tumor model developed, mice in group D were injected with normal saline. Group E was the negative control group. Time intervals between implantation and active growth and tumor weight were recorded. Tumor inhibition rate was calculated. The average time interval between tumor implantation and measurable tumor growth for groups A, B, C and D was (7.0±1.1), (6.0±0.7), (9.0±1.2) and (7.0±0.9) days. Tumor weight of group A [(722.2±413.5) mg] was heavier than that of group B [(338.9±282.2) mg] ( $P<0.05$ ). The tumor inhibition rate was the highest in group C (33.3%). Tumor weight of group C [(237.8±101.8) mg] was lighter than that of group D [(356.7±176.9) mg] ( $P<0.05$ ). The results indicated that the tumor formation is affected by the whole worm extract of *A. lumbricoides* which may have an inhibitory effect on tumour growth.

Keywords: *Ascaris lumbricoides* Extract Lewis lung carcinoma cell Tumor inhibition activity

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