

论著

# HBV表面抗原DNA疫苗对小鼠脏器影响的实验研究

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**摘要** 目的: 用乙型肝炎病毒(HBV. Hepatitis Bvirus)表面抗原DNA疫苗对小鼠进行基因免疫, 观察主要脏器病理形态改变, 探讨该DNA疫苗是否对肝、肾、脾等有损伤作用。方法: 用己型肝炎表面抗原(HBsAg)DNA疫苗经肌肉注射法免疫小鼠: ELISA法检测小鼠血清抗HBaAg抗体水平。免疫12周后取小鼠肝、肾、脾等组织, 观察其病理形态改变情况。结果: DNA疫苗接种1周后, 免疫组小鼠血清中可检测到抗HBsAg抗体。12周后多只小鼠脾脏明显增大, 肝、肾组织切片染色观察, 可见免疫组小鼠的肝、肾组织均有不同程度的病理改变。结论: HBsAg DNA疫苗可诱导小鼠机体产生特异性抗体(可诱发全面、持久的免疫应答)持续 周以上, 同时伴有j卑脏肿大和肝肾损伤提示。该DNA疫苗表达产物与免疫小鼠脏器病变有一定的关系, 对其临床应用前景值得进一步探索。

**关键词** [乙型肝炎病毒](#); [表面抗原](#); [DNA疫苗](#); [病理改变](#); [脏器](#)

## EFFECT OF HBsAg DNA VACCINE ON MOUSE ORGANS

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**Abstract** To study the pathological change Of organs of mice immunited byHBsAg DNA vaccine. **Methods:** HBsAg vaccine was injected into muscles of mice Anti—HBsAg antibody w analyzed by ELISA. After 12 weeks, the immunited mice were killed and those organs were analyzed by pathological methods. **Results:** Anti —HBsAg antibody in mice was positive after one week. Splens of mice were 4 folds larger than control. Kidneys and livers were severe injured. **Conclusion:** HBsAg vaccine can induce mice to create antibody, lasting 12 weeks and more. But, pathology change of organs indicated that the production of vaccine or related reactants may give rise to the damage of the organs of mice. This result makes it necessary to study the safety of HBsAg vaccine further

**Keywords** [Hepatitis B virus](#); [surface antigen](#); [DNA vaccine](#); [pathology change](#)

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