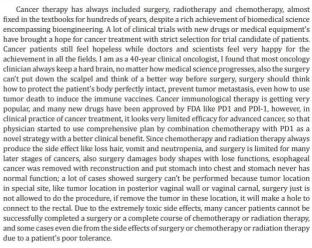


A New Era of Immuno Surgery is Coming: A Novel Eclectic Approach for Cancer Treatment with Liquid Knife & Immuno Therapy



Cancer Hospital, China





In 1994, Dr. Yu developed the new concept of using the tumor itself as a drug carrier. Injection of anti-cancer drug ethanol saturated liquid into the tumor can generate a kind of intratumoral autologous therapeutic coagulum which can function as an antitumor drug depot. This autologous therapeutic coagulum can sustain or store anticancer drug in the tumor and the surrounding tumor tissues to kill the tumor cells that have not been killed through ethanol coagulation treatment. Today the coagulum has been improved to a more effective in clinical cancer therapy by using the ${\rm H_2O_2}$ replaced ethanol. It was found oxidant of ${\rm H_2O_2}$ is playing good role to replace the ethanol to coagulation of tumor as a drug carrier for slow releasing [1-3]. Dr. Yu also published many papers showing that the combination of intratumoral drug with hapten modification improves the immunogenicity of tumor cells, effectively inducing or



*Corresponding author: Baofa Yu Cancer Hospital, Beijing, China

Submission:

April 16, 2022

Published:

April 29, 2022

Volume 2 - Issue 5

How to cite this article: Baofa Yu* and Beijing Baofa. A New Era of Immuno Surgery is Coming: A Novel Eclectic Approach for Cancer Treatment with Liquid Knife & Immuno Therapy. Academic J Eng Stud. 2(5). AES.000549. 2022.

Copyright@ Baofa Yu, This article is directivated under the terms of the Creative Commons Attribution 4.0 International License, which permits unrestricted use and redistribution provided that the original author and source are credited. AES.000549. 2(5).2022

activating body's antitumor immune response and had over 1000 patients with different cancer reported with good results [4-7]. It indicates that when hapten is added to the UMIPIC Ultra-Minimun Incision Personalized Intratumoral Chemoimmunotherapy Therapy, it plays an important role in stimulating immune response.

Recently, Dr. Yu applied UMIPIC for cancer surgery, one of late stage of rectal cancer, during the process of surgery, while preparing the surround tissue, the combination of drugs with hapten was injected into the tumor, both of tumor samples were taken from tumor before, during and after the surgery, also we take the blood samples as same as tumor sample. Single cell sequence was taken placed for comparison expression of genes related immune. It was found that the various immunization in biopsy sample cells, predominate B cells, macrophages, NK/NKT cells, niave T cells, monocytes, neutrophils. In addition to tumor cells, the surgical samples contained more macrophages/dendritic cell and niave T cells. After the intratumoral injection with chemotherapy drug and hapten, the patient developed an immune response within half of an hour during of surgery and a large number of immune cells were enriched in the puncture sample, including NK/NKT, B cells, macrophages/dendritic cells, and neutrophils. The patient's peripheral blood cell fraction shows signs of postoperative inflammation: neutrophil of richness. The proportion of plasma cells in the peripheral blood of the patient was significantly increased 7 days after the operation, it is indicating that the B cells were activated by the neuantigen and began to produce antibodies.

Conclusion

Local tumor treatment during of surgery likely elicited a rapid local immune response, followed by a systemic immune response, and stimulated tumor-specific antibody production for immuno

inercept, it may reduce the metastasis or recovery of cancer after surgery.

References

- Yu B, Kim S (1994) Alcohol with intratumoral drug injection and pharmacokinetics of drug after intratumoral injection: a new concept of intraturmoal autologous therapeutic coagulum with drug depots. Journal of Current Oncology 1(2): 97-100: 46.
- Bu Jieqiong, Baofa Yu (2007) Slow intra-tumor release of drugs on B16 melanoma in mice. Journal of Shandong University (Health Sciences) 45(10): 988-991.
- Baofa Yu, Qiang Fu (2020) drug mixed by H₂O₂ injection intratumoral to turning an extracellular matrix into autologous coagulum as drug depot. Nov Res Sci 4(2).
- Yu B Ma, Z, Guan C (2003) Observation of 751 cases of malignant tumors treated with drug depot therapy. Journal of Shandong University (Health Sciences) 41: 8-14.
- Baofa Yu, Yuanfei Lu, Feng Gao, Peng Jing, Han Wei, et al. (2015) Hapten-enhanced therapeutic effect in advanced stages of lung cancer by ultra-minimum incision personalized intratumoral chemoimmunotherapy. Lung Cancer: Target and Therapy 6: 1-11
- Feng Gao, Peng Jing, Jian Liu, Yuanfei Lu, Peicheng Zhang, et al. (2015) Hapten-enhanced overall survival time in advanced hepatocellular carcinoma by ultra-minimum incision personalized intratumoral chemoinmunotherapy. Journal of Hepatocellular Carcinoma 10(2): 57-68
- Peng Jing, Jian Li, Feng Gao, Yuanfei Lu, Jian Liu, et al. (2015) Use of hapten combinded catatonic drugs for enhancing therapeutic effect in advanced stages of pancreatic cancer. Journal of Liver Research, Disorders & Therapy 1(3): 013-023

Academic J Eng Stud Copyright © Baofa Yu