

Carrots in the treatment of skin cancer : A Case Study

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Abstract:

The purpose of this study is to evaluate the way to treat cancer specifically melanoma in an easiest way without any well-known hilarious side effects.

Background: Skin cancer is the abnormal wealth of skin cells. It virtually often develops on skin unprotected to the sun, but can further occur on areas that are not customarily exposed to sunlight. Skin cancer is commonly divided into two stages, local (where the cancer affects solo the skin) and metastatic (where cancer has spread beyond the skin).

Laboratory findings:

The lab reports of the patient shows she is very near to melanoma and almost suffer from first stage of skin cancer. Fortunately she has diagnosed early about her cancer. hard, dome shaped bumps were observed on patients body.

Family history: Her grandfather at the age of 80 died due to skin cancer and her father at the age of 50 also died from melanoma. The skin cancer is in her family history so the patient is more susceptible to skin cancer.

Social history: She has never smoked and never drinks alcohol. She didn't have any bad social history. Almost 12 hours daily she expose herself to sun but often use sunblock products.

Physical examination: the patient is 42 years old . Pimples on her body were first observed with red color patches on skin. On her face the red spots appears on lips and the bottom of nose. She has done surgery before to remove out those patches or spots of lips and nose. And have stitched lips and nose.

Workup: Due to the cancer in family history patient thinks that she is also could suffer from this hilarious disease so she visit physicians every week in order to remove those patches and spots of lips and bottom nose. She was then empirically used a product named as zeolite and the cancer was temporary diminished. but then she used to drink carrot juice 5 lbs. daily. at first month the lab reports shows that cancer cells stop to replicate. After 2 months lab reports shows those cancer cells not metastasize to other body parts. After 4 months the destruction of

cancer cells were observed. and finally after 6 month the cancer permanently diminished from her body just by using the carrot juice on daily basis.

Treatment plan: The know backwards and forwards ingredient in the carrots is falcarinol, which has been proved capable against cancer in lab experiments .Carrots are very beneficial in the antioxidant beta-carotene, furthermore experienced as pro-vitamin A. Studies have unprotected that as we engage more of these antioxidants, they hold to annul free radicals, which worth our cells and someday affect our health. Beta-carotene is righteous in the advantage facing the approximately usable form of vitamin A. It's easier to converse than vitamin A in tablet consist of and is known to recuperate eyesight and contend beautiful skin. It helps to support the immune program and build prosperous bones, tissues and teeth, as amply as establish in RNA synthesis and force thyroid and adrenal function. Carrots furthermore have melanin in them, which helps to retrieve the skin from sun worth and cancers one as melanoma

Treatment course: The treatment course of chemotherapy include ipilimumab , dabrafenib in combination with trametinib , pembrolizumab 2mg/kg IV every 3 weeks and nivolumab 3mg/kg IV every 2 week is administer. other regimen include vemurafenib 960 mg PO twice daily, dacarbazine , temozolomide 200mg/m²/day administer with a repeated cycle of every 4 weeks. Cisplatin, vinblastine and interferon may also administer in a repeated cycle of every 21 days. Paclitaxil IV 250mg/m² is continuously administered to the patient as IV infusion.

Conclusion : It was concluded that carrots have anticancer compounds according to recent research studies. So it must be consume by cancer patient as it is cytotoxic in nature and destroy abnormal cancer cells without causing any serious side effects. While the regular carrots use may cause neurotoxicity but it looks minor in front of adverse drug reaction by chemotherapeutic drugs.

References:

1. Iyer, A.K.; Singh, A.; Ganta, S.; Amiji, M.M. Role of integrated cancer nanomedicine in overcoming drug resistance. *Adv. Drug Deliv. Rev.* 65, 1784–1802. 2013
2. . Kunjachan, S.; Rychlik, B.; Storm, G.; Kiessling, F.; Lammers, T. Multidrug resistance: Physiological principles and nanomedical solutions. *Adv. Drug Deliv. Rev.* 65, 1852–1865. 2013
3. Newman, D.J.; Cragg, G.M. Marine-sourced anti-cancer and cancer pain control agents in clinical and late preclinical development. *Mar. Drugs* , 12, 255–278. 2014
4. Costa, M.; Garcia, M.; Costa-Rodrigues, J.; Costa, M.S.; Ribeiro, M.J.; Fernandes, M.H.; Barros, P.; Barreiro, A.; Vasconcelos, V.; Martins, R. Exploring bioactive properties of

marine cyanobacteria isolated from the Portuguese coast: High potential as a source of anticancer compounds. *Mar. Drugs* , 12, 98–114. 2014

5. Sak, K. Site-specific anticancer effects of dietary flavonoid quercetin. *Nutr. Cancer* , 66, 177–193. 2014