The use of Gc protein-derived macrophage activating factor for management of thyroid cancer

Sir,

The use of Gc protein-derived macrophage activating factor (GcMAF) for management of cancer is interesting. Basically, Gcprotein is an important precursor of GcMAF which plays important role in the inflammation-primed macrophage activation cascade.[1] Mohamad et al., proposed for the success in preparation of GcMAF in 2002.[1] The Gcprotein-derived macrophage is approved for "increased macrophage tumoricidal activity".[2] The GcMAF has been mentioned as an effective immunotherapy for some cancers, such as breast cancer^[3] and prostate cancer,^[4] for a few years. Here, the authors report a case study on using GcMAF for management of thyroid cancer. The indexed case is a 65-years-old female patient with known thyroid cancer and complete standard treatment for 2 years. On the follow-up visit, the patient revealed persistent increased CA 19-9 (40.3 U/mL) and the thyroid function is as the following: Free triiodothyronine (FT3) = 2.53 pg/mL, free thyroxine (FT4) = 1.01 ng/dL, and thyroid stimulating hormone (TSH) = 1.44μU/mL. This case received GcMAF, extracted from peptide from human vitamin D receptor protein, at dosage 2,200 ng/0.5 ml intramuscularly weekly for continuous 5 weeks. After complete administration, the reduction of CA 19-9 to 26.42 U/mL could be seen. This might imply that GcMAF might be useful for suppression of tumor marker increasing in the patient with thyroid cancer and complete standard treatment.

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Conflicts of interest

There are no conflicts of interest.

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