CASE REPORT

Recurrence Ovarian Cancer presenting as Bilateral Internal Jugular Venous Thrombosis - A Case Report

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ABSTRACT

Venous thrombosis as an initial manifestation of an underlying malignancy is rare but well known. In fact, the index of suspicion is so high that spontaneous venous thrombosis in a patient warrants screening for an occult cancer. Bilateral internal jugular venous thrombosis may be an initial manifestation of an occult malignancy. We present a case of recurrent ovarian carcinoma whose initial manifestation was bilateral IJV thrombosis.

Case report

45-year-old female had been diagnosed as ovarian cancer one year back and was currently under remission for the last six months. The patient presented for follow-up to the oncology clinic with bilateral painless neck swelling. Clinical examination revealed engorged neck veins on both sides with large cord-like masses on both sides. Ultrasonography of neck with color Doppler revealed bilateral internal jugular venous thrombosis with enlarged collateral veins in the neck (Figures 1A, 1B, 1C). There was no associated thrombosis of subclavian veins on either side. Routine hematological indices and coagulation profile were normal. Contrast CT neck revealed bilateral internal jugular venous thrombosis without extension into superior vena cava (SVC). (Figure 2A, 2B). Cross-sectional imaging of abdomen and pelvis revealed recurrent ovarian mass with moderate ascites. Tumor marker CA 125 was markedly raised.

Discussion

Association of idiopathic thrombembolism and occult malignancy is a known fact with a serious debate on the need to screen patients with idiopathic thrombembolism for cancer. There is a 3-19 fold increase in the prevalence of concomitant cancer in patients with secondary and idiopathic venous thromboembolism respectively.

Upper extremity deep vein thrombosis (UEDVTS) accounts for 4% of all deep vein thrombosis (DVT) and 20% of UEDVTS are apparently spontaneous. The morbidity and mortality from UEDVTS at 1,3 and 12 months were 13%, 31% and 40% for subclavian and axillary thrombosis, 14%, 33% and 42% for IJV thrombosis and 23%, 44% and 55% for combined subclavian and IJV thrombosis. Different types of cancers ranging from gastrointestinal to cancers of prostate...
The prevalence of occult cancer in patients with idiopathic VTE is 4-10%, however the prevalence rate varies depending upon the depth of routine examination, difference in threshold for suspicion besides other things. In our case the recurrence of the ovarian cancer became first manifest as bilateral IJV thrombosis. The patient had undergone remission 6 months back and was on follow-up. As mentioned earlier routine hematological investigations besides assays for antinuclear antibodies were negative. This case illustrates the close association between idiopathic VTE and recurrent cancer. Although many studies have been conducted and epidemiological association established, no definite causative relation has yet been discovered between the two. This case also highlights the need for a high index of suspicion of new or recurrent cancer in patients presenting with idiopathic DVT.

References