SISTER MARY- JOSEPH NODULE

INTRODUCTION

Umbilical tumours are very rare and might be benign or malignant. Malignant tumours could be classified as primary or metastatic. Metastatic tumours originate from various internal organ tumours. Sister Mary Joseph nodule is a type of cutaneous metastases, which is characterized by hard, endurated nodules or plaques on umbilicus from various malignant internal organ tumours. Generally, it is associated with advanced intraabdominal carcinoma and poor prognosis.

CASE

A 79 year olds woman who has not any disease apart from hypertension and diabetes mellitus presented with abdominal pain to a general surgery department of s hospital. Abdominal CT examination showed a lesion on pancreatic corpus which is 7-8 mm in diameter with/without contrast. Ultrasonographic examination showed this lesion is cystic. There was a hypodense lesion bulging anteriorly about 4x2 cm in diameter on the lateral side of the cyst. There were two hypodense lesions in liver, which were about 15x18 mm and 5x5 mm in diameter. On the interpretation of the abdominal CT, there was no clear separation between tumoral mass and focal pancreatitis. The overweight diagnosis was tumoral mass with metastases to the liver.

Later, there was an inoperable carcinoma signs on the abdominal MLI (a pancreatic tumoural lesion which is about 4x3 cm in diameter and less enhanced with cotrast compared to the pancreas and splenic invasion signs) and there were two lesions resembling hemangioma in the liver and mild free fluid at the left and right paracolic areas, perihepatic areas, Morrison and Douglas pouch, umbilicalci and infectious signals on the umbilical channel under the skin.

Afterwards, the patient has been advised to consult to Trakya University Medical Faculty Medical Oncology Clinics. The patient was investigated there and consulted to general surgery. During her duty, she was a surgical assistant of William J. Mayo at the Minnesota St. Mary's hospital between 1890-1915. Dr. Mayo has full confidence to his assistant and replied to a technical question about what to do in a specific situation like that: "I consult to Sister Joseph and agree her advice." 3

As a surgical assistant, one of her duties was to prepare abdomens of patients for surgery. During her duty, she noticed a sign which would be named as her name in future: Generally, there was an umbilical nodule in patients with advanced intraabdominal carcinoma. However, the term "Sister Mary Joseph Nodule" was not present in the literature until Hamilton Bailey described it on "Physical Signs in Clinical Surgery" on 11th edition in 1949, which is 10 years after her death.

DISCUSSION

57% of all umbilical tumours are benign, 4,5 Of these, the most common encountered lesion is dermal nevus, less frequent lesions are fibroepithelial papilloms, epithelial inclusion cysts, sebomucous keratoses, dermatofibroms and polips. Apart from these, omphalomesenteric duct congenital malformations, foreign bodies, hypertrophic scars, umbilical hernias tumoral nodules could be presented as umbilical mass. Umbilical endomestiosis which is a rare umbilical nodule cause could be diagnosed as it causes hemorrhage and tenderness and changes with menstrual cycle.

Primary malignant umbilical tumours (melanoma, basal cell carcinoma, squamous cell carcinoma, myxomacromia, adenocarcinoma) constitutes only 17% of all malignant umbilical tumours. Adenocarcinoma and myxomas are thought to be originated from ectopic tissues like remnants of omphalomesenteric duct.

Metastatic umbilical tumours constitutes 83% of all malignant umbilical tumours and they are generally associated with adenocarcinoma histopathologically. Known origin sites for Sister Mary Joseph nodules are stomach (25%), ovary (12%), colonic site (10%) and pancreas (7%) as our case 4,12; apart from these, gall bladder, uterus, liver, endometrium, small intestine, fallopian tube, appendix, servix, pancre, prostate, breast, kidney and lung are the other reported sites.

As our case, the clinic importance of Sister Mary Joseph nodule is it is associated with advanced metastasized carcinoma. It has a poor prognosis and the treatment is generally only palliation. 10 Prognosis is rather poor.

REFERENCES