Sister Marie-Joseph’s Nodule Revealing a Digestive or Gynecological Carcinoma: About 5 Cases in One Hospital of a Poor Country

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1. Abstract
Sister Mary-Joseph nodule is an umbilical skin metastasis from a malignant tumor of abdominal origin. It is a rare and late clinical sign, indicative of an advanced stage of digestive or ovarian carcinoma. We report five cases of an umbilical skin metastasis revealing a colonic tumor in 3 cases and an ovarian tumor in two cases. Through five cases we want to describe the epidemiological, diagnostic, therapeutic and prognostic peculiarities of Sister Mary-Joseph's nodule.

2. Introduction
The umbilicus is the parietal scar left by the insertion of the cord. It maintains relations with the intra-abdominal organs. It is sometimes the elective seat of infectious, malformative, inflammatory and tumor of skin diseases [1, 2]. Malignant tumor lesions are primary or secondary. The secondary lesion is represented by Sister Mary-Joseph’s nodule, which is an umbilical skin metastasis from digestive or gynecological cancer [2]. The objective of this work is to show, through five cases of Sister Marie-Joseph's nodule, the diagnostic, therapeutic and prognostic features of this condition in developing countries.

3. Observation 1
A 70-year-old patient, known hypertensive, admitted in emergency for umbilical and periumbilical pain evolving for more than 72 hours. The examination showed apyrexia; a deterioration of the general condition; the abdomen was of normal size without scar, with the presence of an umbilical nodule, hard and tender. The hernial orifices and ganglionic areas were free; no rectal nodule. Abdominal computed tomography (CT) noted a tumor in the left colon with nodules of peritoneal carcinoma. Biopsy of the nodule noted an undifferentiated adenocarcinoma of colonic origin. He was put on chemotherapy. The outcomes were marked by death a few months later.

Figure 1: Nodule of Sister Marie-Joseph during an adenocarcinoma of the left colon

4. Observation 2
cal examination revealed apyrexia; a deterioration of the general condition; an abdomen of normal size without a scar; the presence of a weeping, painful umbilical nodule measuring 3 cm in diameter on its longest axis; an abdominal mass adhering to the deep plane and the umbilicus; the lymph node areas were free. The diagnostic hypothesis of an abdominal tumor was posed. The abdominal ultrasound revealed an abdominal tumor developed on a digestive structure and adherent to abdominal wall with ascites of minimal abundance. Exploratory laparotomy noted a transverse colon tumor invading the stomach with peritoneal carcinoma. A right hemicolecctiony with transverse ileocolic anastomosis and an atypical partial gastrectomy were performed. The biopsy was in favor of adenocarcinoma of the transverse colon. The diagnosis of transverse colon adenocarcinoma with umbilical metastasis was made. Due to lack of funds, the patient was unable to benefit from adjuvant chemotherapy. The postoperative follow-up was good. The patient reviewed for control 1 month, 3 months and 6 months later had a satisfactory physical state with regular weight gain.

**Figure 2:** Nodule of Sister Marie-Joseph during an adenocarcinoma of the transverse colon

**5. Observation 3**

A 68-year-old woman with a history of hysterectomy was admitted with diffuse abdominal pain that had progressed for months without transit problems. The clinical examination noted apyrexia, a change in general condition. The abdomen was enlarged, with the presence of a Pfannenstiel scar, a hard, tender umbilical nodule, a right pelvic mass. Abdominal computed tomography (CT) revealed a right ovarian tumor with peritoneal carcinoma. The umbilical nodule biopsy suggested a serous adenocarcinoma. The diagnosis was cancer of the right ovary with umbilical and peritoneal metastases. Management was limited to symptomatic treatment. The death occurred 2 weeks after his admission.

**Figure 3:** Sister Marie-Joseph's nodule in adenocarcinoma of the right ovary

**6. Observation 4**

A 56-year-old woman with a history of left total salpingectomy for a ruptured left ectopic pregnancy in 1990 and a cesarean section in 1997, admitted for abdominal distension which had progressed for one month in a context of progressive deterioration of the general condition. There was no metrorrhagia. The examination noted a change in general condition; an enlarged abdomen with elastic resistance; an ulcerative nodule, oozing from the umbilicus, measuring 4 cm in diameter in its longest axis and sensitive. Elsewhere, there was a free ascites of great abundance with umbilical perimeter at 128 cm, a tumor-like hepatomegaly. The cytological examination of the ascites showed an exudate with the presence of a few clusters of suspicious cells. CA-125 was elevated to 997 U/ml (N <35 U/ml). Carcinoembryonic antigen (CEA), alphafetoprotein and CA19-9 were normal. Abdomino-pelvic CT revealed a left ovarian cystic mass of 3.5 cm consistent with an ovarian tumor, an umbilical parietal mass of 4 cm × 3 cm of suspicious appearance, a homogeneous hepatomegaly with irregular contours without an abnormality of the portal vein and free ascites of great abundance. The umbilical nodule biopsy was in favor of a well differentiated adenocarcinoma. The diagnosis retained was cancer of the left ovary with umbilical and hepatic metastases. She is currently receiving symptomatic treatment due to lack of funding for chemotherapy.

**Figure 4:** Sister Marie-Joseph's nodule in adenocarcinoma of the left ovary

**7. Observation 5**

A 86-year-old patient with a history of caesarean section admitted for abdominal pain, vomiting and transit arrest progressing approximately one week before admission. The examination revealed apyrexia; a deterioration of the general condition; a median sub-umbilical scar; an enlarged abdomen with elastic resistance; an umbilical nodule about 1 cm in diameter, hyper pigmented polyol bed, indurated, tender to palpation; free hernial orifices; free ganglionic areas; the empty rectal bulb with soft rectal walls. The rest of the exam unremarkable. An X-ray of the abdomen without preparation made demonstrated water-aeric levels in favor of colonic occlusion. We strongly suspected a colonic tumor in occlusion. The biopsy could not be performed due to lack of financial means. The patient died a few days later.

**Figure 5:** Sister Marie-Joseph's nodule in adenocarcinoma of the left ovary
In our countries where the means of treatment are limited, the exploration of a nodule of JMS poses major diagnostic and therapeutic problems. In our study, the late diagnosis in our 5 patients is partly due to the lack of awareness of the nodule by practitioners, its discreet nature often trivialized by patients, the lack of accessibility to referral health structures and the absence of complementary exams as histology in our health structures [3]. This diagnosis at an advanced stage, as in all five patients in our study, coupled with the inaccessibility of chemotherapy, constitute obstacles to optimal management in developing countries.

9. Conclusion

Sister Marie-Josèphe's nodule is often a late indicator of abdominal-pelvic cancer. It may be the first manifestation of an intra-abdominal tumor. Its clinical, etiological and therapeutic diagnosis poses a problem in developing countries because of the limitation of the technical platform and the means of care which are often the responsibility of the patient. His prognosis is unfavorable.

References