Case report

A 45-year-old man with an uneventful personal and family history presented with a tonsillar tumor and rectal syndrome. Histology specimens revealed signet-cell adenocarcinoma of both the tonsils and rectum. The clinical course was rapidly degenerated with multiple metastases in the skin and bone. Tonsillar metastasis is rare and generally develops from primary gastric or colorectal cancer, predominantly poorly-differentiated or signet-ring cell adenocarcinomas.

Discussion

Metastases in the palatine tonsils are rare and generally occur in cancers prone to metastasize: melanoma [1], lung cancer [2] and renal cancer [3]. It is noteworthy that among the few reported cases, a large number concerned gastric cancer and only four colorectal cancer. These cancers generally metastasize less readily to the liver, lungs or bone, usually via hematogenous dissemination. Metastasis of colorectal cancer to other localizations is exceptional and usually occurs late in a context of highly disseminated disease. This context was not present in the four cases reported in the literature. In these cases, tonsillar metastasis was either the first metastatic localization or the inaugural manifestation of colorectal cancer. Most of the reported cases involved a very specific type of histology: poorly-differentiated [4] or undifferentiated cancer [5-7], or as in our case, signet-ring cell adenocarcinoma [8, 9]. Signet-ring cell adenocarcinoma is an uncommon histological type of colorectal cancer, observed in about 1% of the cases [10], but has a rather distinctive presentation. Besides the specific histological features, signet-ring cell adenocarcinoma can be distinguished from classical adenocarcinoma by a more advanced stage at diagnosis and a greater propensity for peri-

RÉSUMÉ

Métastase amygdalienne révélant un adénocarcinome à cellules indépendantes du rectum, à propos d’un cas

Un homme de 45 ans consultait pour une masse amygdalienne et un syndrome rectal. L’analyse histologique des prélèvements biopsiques révélait un adénocarcinome à cellules indépendantes de l’amygdale et du rectum. L’évolution était vite défavorable avec apparition de multiples sites métastatiques inhabituels (peau, os). Les métastases amygdaliennes sont rares et habituellement secondaires à un cancer primitif gastrique ou rectal, souvent de type adénocarcinome peu différencié ou à cellules en bague à chaton.

SUMMARY

A 45-year-old man presented with a tonsillar tumor and rectal syndrome. Histology specimens revealed signet-cell adenocarcinoma of both the tonsils and rectum. The clinical course was rapidly degenerated with multiple metastases in the skin and bone. Tonsillar metastasis is rare and generally develops from primary gastric or colorectal cancer, predominantly poorly-differentiated or signet-ring cell adenocarcinomas.

Cancers of the palatine tonsils are rare. Primary lymphomas in children and spindle-cell carcinomas in adults are generally observed. Metastatic dissemination to the tonsils is very rare. We report an additional case of rectal cancer revealed by tonsillar metastasis of a signet-ring cell adenocarcinoma.

Discussion

Metastases in the palatine tonsils are rare and generally occur in cancers prone to metastasize: melanoma [1], lung cancer [2] and renal cancer [3]. It is noteworthy that among the few reported cases, a large number concerned gastric cancer and only four colorectal cancer. These cancers generally metastasize less readily to the liver, lungs or bone, usually via hematogenous dissemination. Metastasis of colorectal cancer to other localizations is exceptional and usually occurs late in a context of highly disseminated disease. This context was not present in the four cases reported in the literature. In these cases, tonsillar metastasis was either the first metastatic localization or the inaugural manifestation of colorectal cancer. Most of the reported cases involved a very specific type of histology: poorly-differentiated [4] or undifferentiated cancer [5-7], or as in our case, signet-ring cell adenocarcinoma [8, 9]. Signet-ring cell adenocarcinoma is an uncommon histological type of colorectal cancer, observed in about 1% of the cases [10], but has a rather distinctive presentation. Besides the specific histological features, signet-ring cell adenocarcinoma can be distinguished from classical adenocarcinoma by a more advanced stage at diagnosis and a greater propensity for peri-

E-mail : raou1@rennes.fnclcc.fr

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Tonsillar metastasis revealing signet-ring cell carcinoma of the rectum

...toneal involvement and a lesser propensity for hepatic metastasis [9, 11-14]. The immunohistochemistry profile [15] of the colonic localizations (generally CK7-/CK20+ as in our case) is different from the classical pattern observed in gastric localizations (generally CK7+/CK20-), allowing distinction between colorectal metastasis and gastric linitis. In contrast, it would appear that E-cadherin-related abnormalities of the cell adhesion system [16] is a characteristic feature, at least in poorly-differentiated adenocarcinoma of the rectum. It is even probable that epigenetic inactivation of E-cadherin via hypermethylation of its promoter could be a critical event occurring early in the development of undifferentiated and signet-ring cell cancers [17]. The rapid course of the disease with numerous subcutaneous metastases observed in our patient has also been observed by Low [8] who reported a similar case. This rapid dissemination to unusual localizations, particularly the skin, might be related to genetic [19] or acquired alteration in E-cadherin. This type of mechanism cannot be implicated in the present case because the tumor cells strongly expressed normal E-cadherin.

In conclusion, tonsillar metastasis is an exceptional but sometimes inaugural manifestation revealing generally poorly-differentiated or signet-ring cell cancer of the digestive tract. Anomalous expression of adhesion molecules frequently found in this type of cancer might be involved in the pathogenesis of the metastatic process.

REFERENCES


