

## The contralateral sentinel node

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Identification and dissection of the sentinel node is now standard in the treatment of melanoma. We describe a patient with melanoma of the cheek demonstrating contralateral lymphatic drainage.

### Case report

An 85-year-old woman was referred to our surgical oncology office after wide local excision of an intermediate-thickness

melanoma of the right cheek. Her medical history was significant for hypertension. She had had no previous problems with her skin and there was no family history. The pathology report revealed a 1.2-mm thick melanoma, extending to one of the inked margins. She was scheduled for wide re-excision and sentinel lymph-node dissection.

Approximately 4 hours before the operation, technetium 99m was injected at the previous excision site in the right

cheek (Fig. 1). Nuclear scanning after the injection revealed increased radioactivity on the left side at 2 sites (Fig. 2). In the operating room, 3 mL of isosulfan blue dye was injected at the previous excision site. The blue dye was seen to move medially toward the base of the nose as well as to the buccal area and the angle of the mandible. Scanning intraoperatively with the hand-held gamma counter revealed that the lowest site on the left side of the nuclear scan (Fig. 2) was the point of

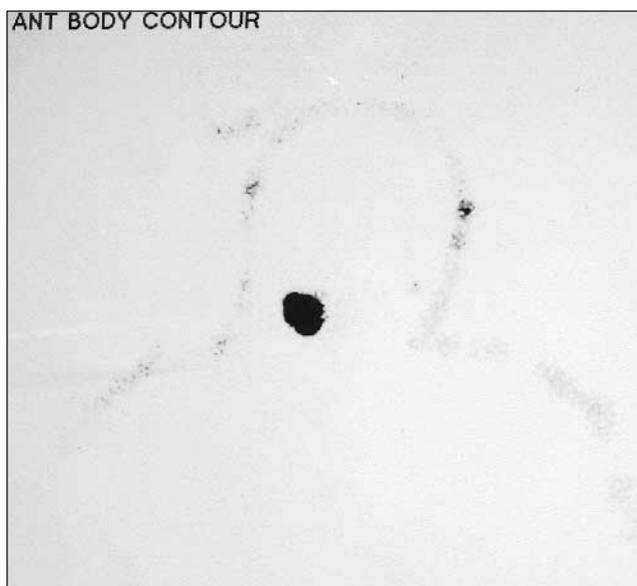


FIG. 1. Scan after injection of technetium 99m at the site of the melanoma, 4 hours before operation (anterior view).

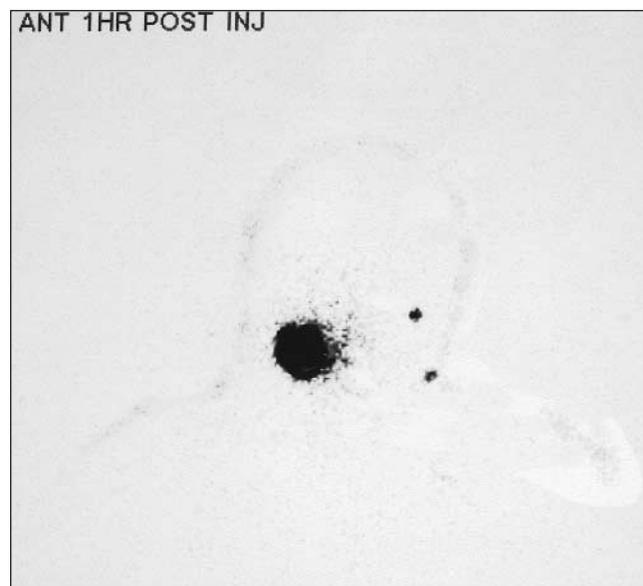


FIG. 2. Scan 1 hour after injection of technetium 99m demonstrates radioactivity at 2 sites on the left side, contralateral to the primary melanoma on the right cheek.

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highest uptake and correlated with the left submandibular region, contralateral to the primary lesion on the right cheek.

### Discussion

Before the advent of sentinel-node dissection, patients with intermediate-thickness melanoma were managed primarily by wide local excision and regional lymphadenectomy. In the head and neck region, this often entailed either radical neck dissection or modified radical neck dissection. With lesions of the scalp, management of the lymph nodes was particularly difficult because of the known ambiguity of the lymphatic drainage pathways. Lesions on the forehead, however, and especially those of the anterior part of the face, have well-defined lymphatic drainage to the ipsilateral nodes. The drainage is initially to the parotid or buccal nodes, then the superfi-

cial cervical or submandibular nodes, continuing down the ipsilateral cervical chain.

Local recurrence rates for lesions on the head and neck vary from 2% to as high as 13% after prophylactic (modified) radical neck dissection.<sup>1</sup> The unpredictable nature of melanoma likely contributes to these figures. Our patient demonstrates that primary contralateral drainage is probably a factor in the failure rate of ipsilateral lymphadenectomy. One series had a 2.9% rate of contralateral recurrence after wide excision of facial lesions and ipsilateral neck dissection.<sup>2</sup> Sentinel lymph-node identification has become the standard of care in melanoma. Figures vary slightly, but the combination of lymphoscintigraphy with technetium and isosulfan blue identify the sentinel node in well over 90% of cases. Its applicability in carcinoma of the breast has led to its investigation in several other

cancers including colon cancer, thyroid cancer and gynecologic malignant disease. With sentinel lymph-node identification being one of the most captivating topics of recent times, this finding as a possible explanation for some of our past failures is just one more reason for our fascination.

**Competing interests:** None declared.

### References

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## Gastrocolic fistula secondary to right gastroepiploic–coronary artery bypass

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**G**astrocolic fistula (GCF) generally occurs secondary to chronic peptic ulcer disease.<sup>1</sup> It can be classified as primary or secondary, that is, occurring spontaneously or after operative gastric resection. The patient described here had a GCF occurring as a remote postoperative complication of coronary artery bypass grafting with right gastroepiploic artery.

### Case report

A 69-year-old man, a long-term smoker and alcoholic, had a suspected incom-

plete small-bowel obstruction refractory to an initial course of appropriate non-surgical therapy. He had presented to the primary care hospital 2 days earlier with a 5-day history of progressive nausea and feculent vomiting with diarrhea, but he had no abdominal pain.

The patient's medical history included 3 previously documented myocardial infarctions leading to 5-vessel coronary artery bypass 1 year earlier. The right gastroepiploic artery was used as a coronary artery bypass graft. The postoperative course was uncomplicated.

On initial examination, the patient

was afebrile and vital signs were stable. He appeared emaciated. His abdomen was moderately distended but soft and nontender. The only evident surgical scar was the epigastric extension of the midline sternotomy incision.

The leukocyte count and hemoglobin level were normal, as were serum electrolyte levels, urea and creatinine values and liver function test results. The serum prealbumin level was low (0.09 g/L). Chest radiography revealed chronic obstructive lung disease. On abdominal radiography there were no obvious intestinal air fluid levels or distended loops.

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