A case of buried bumper syndrome in a patient with a balloon-tipped percutaneous endoscopic gastrostomy tube

Buried bumper syndrome is a rare complication of percutaneous endoscopic gastrostomy (PEG) placement in which the internal bumper migrates from the gastric lumen and becomes lodged in the gastric wall or other places along the gastrostomy tract [1]. Most cases of buried bumper syndrome occur in patients with PEG tubes that have a mushroom-like round tip or a four-winged tip, as the relatively hard internal bumper causes pressure necrosis and results in buried bumper syndrome more frequently [2, 3]. So far as we are aware, there have been no previous reports on buried bumper syndrome in patients with a balloon-tipped PEG tube. Since the fluid inside the balloon effectively regulates the pressure, the possibility of developing buried bumper syndrome is lower with a balloon-tipped tube [2, 3].

A 77-year-old woman was hospitalized for pain around a PEG tube that had developed 5 days previously. Her caregiver noticed a purulent discharge from the PEG insertion site. Thirteen months before, we had carried out a tube replacement and placed a balloon-tipped PEG tube. She was able to infuse the feeding formula through the tube by herself. There was food regurgitation through the PEG site during feeding. The caregiver reported that she had pulled the tube habitually whenever she felt that the feeding rate decreased. Around the PEG tube, a yellowish discharge and hyperemic granulation tissue were noticed (Figure 1), and a tender subcutaneous round mass was palpated. Abdominal computed tomography showed that the balloon was buried in the abdominal wall (Figure 2a). At endoscopy, the internal bumper was not visible, but a small crevice with surrounding mucosal elevation was noted at the presumed site of insertion (Figure 2b). The tube was cut below the balloon port and the water in the balloon was allowed to flow outside. It was then possible to pull out the buried PEG tube without difficulty.
This case suggests that excessive tension between the internal and external bumper is a more important factor for developing buried bumper syndrome than the type of internal bumper used.

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References


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