## References

- Mansfield DC, Zeki SM, Mackenzie JR. Case report: extravasation of Lipiodol. Clin Radiol 1994;49:217–8.
- Munk P, Burhenne LW, Buffam FV, Nugent RA, Lin DT. Dacryocystography: comparison of water-soluble and oil-based contrast agents. Radiology 1989;173:827–30.
- Shigetake Y, Masatsugu S, Yoshikuni F, Yoshihiro T. Parotid and pterygomaxillary lipogranuloma caused by oil-based contrast medium used for sialography: report of a case. J Oral Maxillofac Surg 1996;54:350–3.
- 4. Smith TR, Frater R, Spataro J. Delayed granuloma following bronchography. Chest 1973;64:122–5.
- 5. Dalforno S, Provana A. Granulomas due to oily substances in the lymph nodes. Cancro 1964;17:330–6.
- La Sala GB, Ghiardini G, Valli F, Margini F. Intravasation during hysterosalpinography using low viscosity oil-based contrast media. Clin Exp Obstet Gynecol 1982;9:257–9.

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#### Sir,

# Spontaneous displacement of polyurethane nasolacrimal duct stent into the throat 4 years after insertion

Hollow stent insertion in the nasolacrimal duct (NLD) has been used as an alternative to dacryocystorhinostomy (DCR) for treatment of epiphora. Song and associates<sup>1</sup> first reported using a polyurethane stent in 1995. This is normally inserted in a retrograde fashion by radiologists. There are reports of a high success rate of insertion and patency of the stents.<sup>2</sup> To date there has been no report of these stents being displaced spontaneously. Here we report a case of polyurethane stent migration nearly 4 years after its original insertion.

### Case report

A 66-year-old man presented to us nearly 4 years following the successful and uncomplicated insertion of a left polyurethane NLD stent. He had brought with him the stent wrapped in a tissue (Fig. 1)! He gave a history of foreign body sensation in his throat while asleep, followed by difficulty in breathing. He subsequently managed to remove the stent from his throat by coughing. He was well after this episode and had recovered fully.

Polyurethane stents are 35 mm long and quite flexible (Fig. 1). The tip is mushroom-shaped and measures 5 mm in diameter and 5 mm long. This part lies in the lacrimal sac. The hollow body of the stent has an external diameter of 2 mm and an inner diameter of 1.5 mm. The

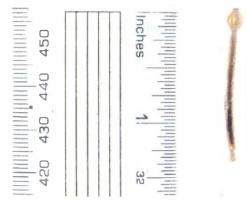


Fig. 1. The polyurethane nasolacrimal duct stent.

main indication for insertion of these stents is NLD obstruction, especially at the junction between the lacrimal sac and NLD or at the NLD. This procedure is also used as primary management of NLD obstruction before DCR. NLD stents are considered a safe and noninvasive alternative to DCR with a relatively good success rate of patency. In a recent study<sup>2</sup> a high 93% success rate of insertion and 88% success rate of patency was reported in a mean follow-up period of 7 months. Blockage of the stent has been reported as the most frequent cause for failure.<sup>3,4</sup> Song's group reviewed 571 cases of stent insertion, of which 142 were removed because of obstruction.<sup>3</sup>

Although polyurethane stent insertion is a fast, safe and reversible procedure, these stents are also prone to migration into the throat. This complication has not previously been reported and could potentially be a very serious hazard with regard to upper respiratory tract obstruction of patients who are predominantly elderly. It is therefore important to be aware of such an unusual complication and patients should be warned about it.

### References

- Song HY, Jin YH, Kim JH, Huh SJ, Kim YH, Kim TH, Sung KB. Nonsurgical placement of a nasolacrimal polyurethane stent. Radiology 1995;194:233–7.
- Yazici B, Yazici Z, Parlak M. Treatment of nasolacrimal duct obstruction in adults with polyurethane stent. Am J Ophthalmol 2001;131:37–43.
- 3. Song HY, Lee DH, Ahn H, Kim JH, Kang SG, Yoon HK, Sung KB. Lacrimal system obstruction treated with lacrimal polyurethane stents: outcome of removal of occluded stents. Radiology 1998;208:689–94.
- Pabon IP, Diaz LP, Grande C, de la Cal Lopez MA.
   Nasolacrimal polyurethane stent placement for epiphora: technical long-term results. J Vasc Interv Radiol 2001;12:67–71.

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