What on earth did I do with my pen?

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DESCRIPTION

A 38-year-old woman was admitted acutely from an inpatient psychiatric unit with a history of right loin to groin pain 1 day following vaginal instrumentation with a bottle. Her medical history included diabetes mellitus, cholecystectomy and borderline personality disorder with a history of self-harm.

She was feverish with generalised abdominal tenderness. The cervix and vagina were healthy with no discharge and no foreign body. Investigations revealed raised inflammatory markers, and normal transabdominal ultrasound scan, chest and pelvic X-rays. An abdominopelvic CT scan demonstrated two foreign bodies, in the right retroperitoneum, penetrating into the second part of the duodenum (D2) and in the stomach (figures 1A, B and 2). At endoscopy, the tip of a pen was seen entering D2, traversing the lumen and buried within the posterior wall, and a beheaded toothbrush was seen in the stomach. Careful transoral endoscopic removal of the objects was achieved in line with recent European Society of Gastrointestinal Endoscopy guidelines on removal of foreign bodies in the upper gastrointestinal tract, followed by an uneventful recovery.1

The likely route of foreign body entry was transoral. However, as the tip of the pen was visualised penetrating into D2 with a clear tract on CT imaging extending from the pelvis through the right retroperitoneum, vaginal insertion was considered.

Insertion of foreign bodies into bodily orifices is common.2 However, there are few documented reports of objects migrating to the upper abdominal cavity following vaginal insertion. Intrauterine contraceptive devices have been reported adjacent to the liver, following transperitoneal migration.3

Learning points

▸ Always consider self-harm as a cause for atypical symptoms and signs in patients with a previous history.
▸ Detailed examination of the radiological anatomy can assist in identifying potential routes of access of instrumented foreign bodies, which can aid in removal planning.
▸ The improbable is still possible.

Figure 1 Oblique sagittal (A) and coronal (B) reconstructions of CT demonstrating the retroperitoneal foreign body (white arrow). The metallic tip lies just below the duodenum (black arrow). The long axis of the vagina (dashed line) and position of the uterine fundus (white star) are marked.

Figure 2 Oblique axial reconstruction of CT demonstrating the second intragastric foreign body (white double arrow). The metallic pen tip is visible (single white arrow).
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