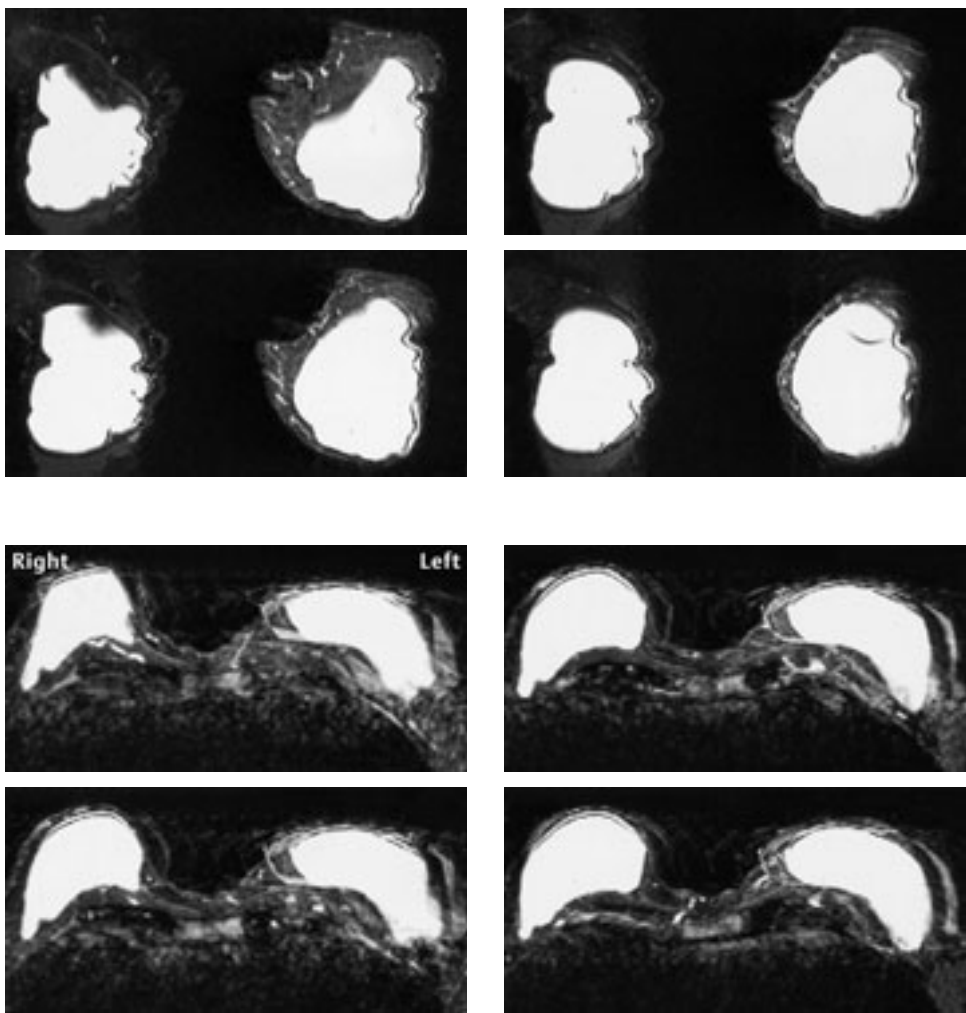
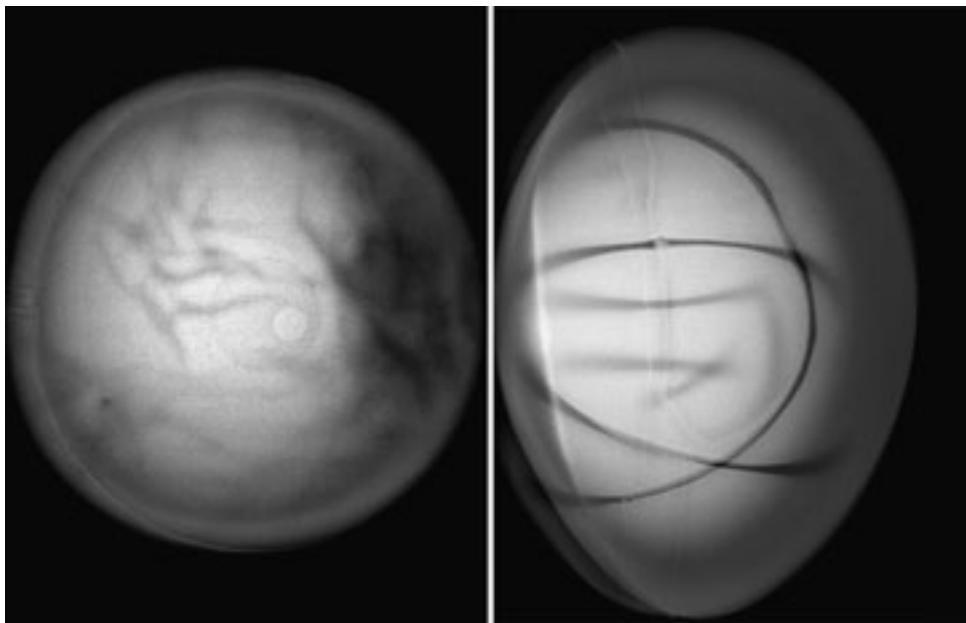


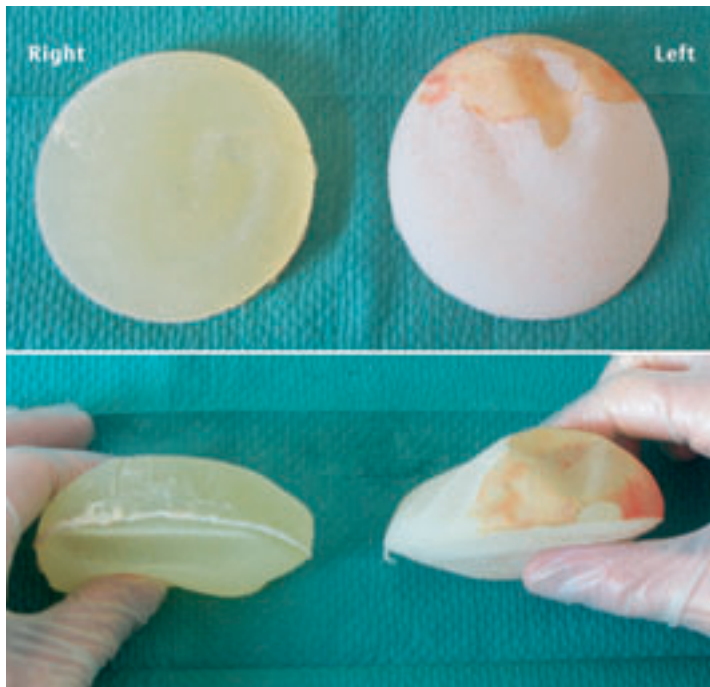
**Fig. 5.102 Gel bleed/implant type/implant rupture (?) in a 66-year-old woman.** Both breasts underwent silicone implantation years before for cosmetic reasons. MRI raised suspicion of a left-sided implant rupture due to gel bleed (a). The implants were removed and examined.



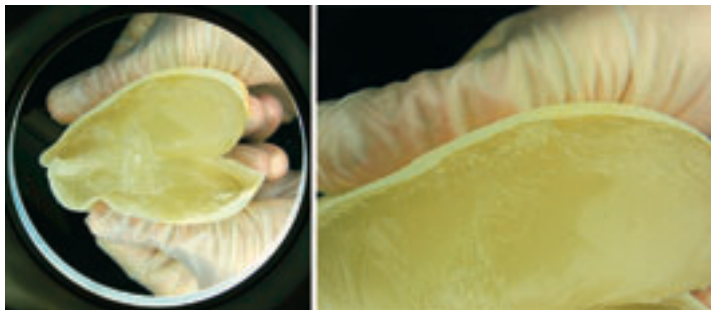
**a** Fat-suppressed inversion-recovery MR sequences show deep wrinkling of the implant surfaces with silicone oil outside the implants (e.g., c-D/21-22). A linguine sign is not present (upper two pairs of images coronal, lower two pairs transverse).



**b** Mammography of the right implant under compression shows numerous lines and streaks caused by implant seams and surface wrinkles (compare with d). *Left:* The implant was imaged from the front. *Right:* The implant was imaged from the side.

**Fig. 5.102** Gel bleed/implant type/implant rupture. (continued)

**c** Appearance of the implants. Front views (above) show fibrous encapsulation of the left implant (reddish-white coating) while the right implant is clear. Portions of the outer shell are visible on the upper portion of the left implant (N/26–27). Side views (below) show the outer shell “baked onto” the left implant (reddish-yellow coating, N/21).



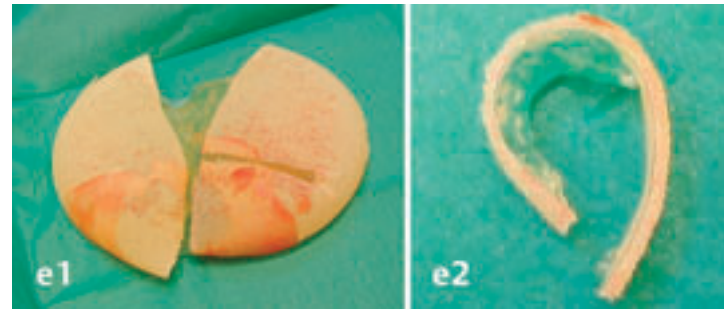
**d** Cut surface of the right implant (compare with **c**). Silicone has a uniform greenish-yellow color and a relatively firm, nonfluid consistency. No cavity is present between the silicone and capsule.

**Question 1 on Fig. 5.102**

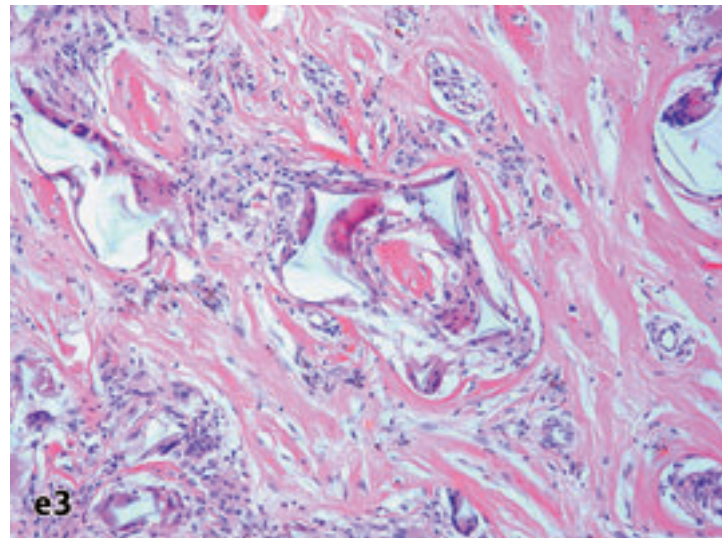
What type of implants are these?

- (a) Single-lumen implants
- (b) Double-lumen implants
- (c) Triple-lumen implants (gel/water/gel)

→ Answer on p. 378



**e1, e2** View of the left implant. The pathologist cut a specimen from the reddish portion of the outer shell (fibrous encapsulation at Q–q/25).



**e3** Histologic section from the outer shell (80× magnification) shows a firm, fiber-rich capsule with foreign body granulomas and silicone particles (p. e. R–S/18, pink) (image courtesy of Hans-Helmut Dahm, Esslingen).

**Question 2 on Fig. 5.102**

How would you interpret the MRI changes?

- (a) Gel bleed
- (b) Partial rupture of the outer implant shell
- (c) Complete rupture of the whole implant

→ Answer on p. 378

► Fig. 5.102f–h