The MammoSite system is among the thousands of devices the F.D.A. lets onto the market each year after only cursory review and with no clear evidence that they help patients. Doctors are free to use those products as they see fit, without telling patients that the devices are not proved. And because the doctors are frequently paid more by Medicare as a way to compensate them for the extra time and expense of adopting new procedures, these unproven products can become widely adopted.

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