Appendix 1 (as supplied by the authors): Minimizing injection pain in local anesthesia. Top Left: Don't insert the needle at 45° and don't inject in the dermis itself as this approach will increase the pain of injection. Top Right: Instead, do insert the injection needle at 90° to the skin and inject in the subcutaneous fat, not in the dermis. This approach will minimize the number of pain fibers stimulated by the needle. Middle: Don't let the needle get ahead of the wheal of local anesthesia (seen in blue) as the sharp bevel will cause pain during the injection. Bottom: Do inject and move the needle slowly with intermittent palpation to be sure there is always 4-5 mm of palpable local anesthetic wheal ahead of your needle for a pain free injection. Modified and reproduced with permission from Mustoe TA, Buck DW II, Lalonde DH. The safe management of anesthesia, sedation and pain in plastic surgery. Plast Reconstr Surg 2010;126:165e-76e (© 2010 Wolters Kluwer LWW).

