

7.2 Standard osteotomies in the mandible

Stability of the fragments is achieved by fixation with mini-plates 1.5, 2.0, or corresponding Matrix plates. As a rule, two screws should be placed in each fragment. Fixation can be performed by using straight Y- or X-shaped plates (**Fig 7.2-22a–b**). Monocortical screws offer sufficient stability. The plates should be bent to lie passively on the fragments to avoid dislocating forces and to avoid sharp edges that post-operatively can be felt through the skin. Lag screw fixation

is also an option because the screws cannot be felt through the skin and the stability is excellent. Two or more lag screws can be placed (**Fig 7.2-22c**). This is also a good indication for bioresorbable fixation.

During wound closure care must be taken to suture the mentalis muscle, thus resuspending the soft tissues to avoid a drooping chin.

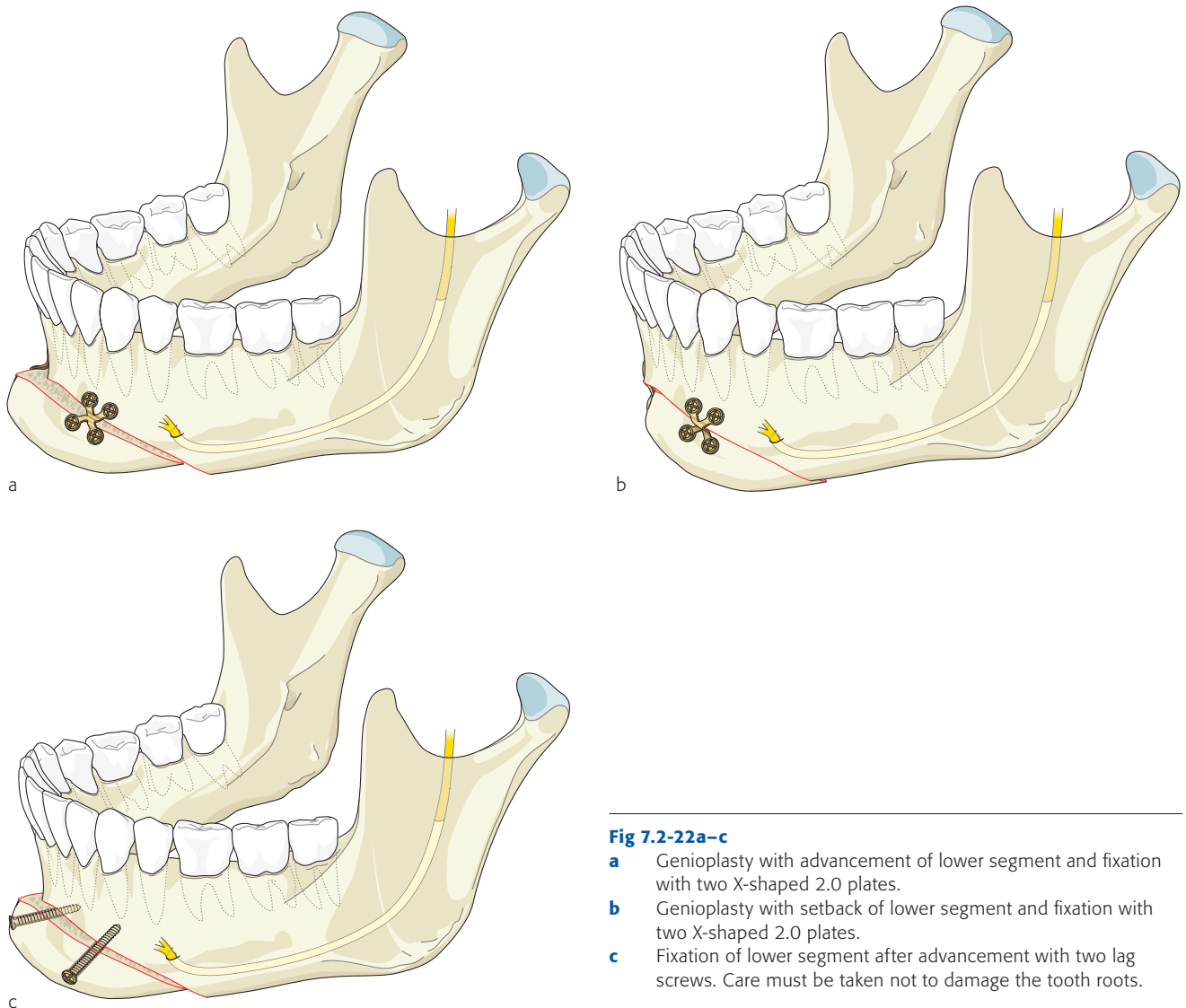


Fig 7.2-22a–c

- a** Genioplasty with advancement of lower segment and fixation with two X-shaped 2.0 plates.
- b** Genioplasty with setback of lower segment and fixation with two X-shaped 2.0 plates.
- c** Fixation of lower segment after advancement with two lag screws. Care must be taken not to damage the tooth roots.

