

Results and complications of surgery with trochlear block recession(TBR), tibial tuberosity transposition(TTT) in 179 dogs with patellar luxation: 291 joints (2004. 6–2006. 6)

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Objectives: To report the signalment, history, and clinical features, and to review outcomes and postoperative complications with correction of patellar luxation in dogs. **STUDY DESIGN:** Retrospective study. **ANIMALS:** Dogs(n=179) with patellar luxation(n=291)

Methods: Medical records of dogs that had corrective surgery for patellar luxation were reviewed. Signalment, body weight, breed, grade and direction of patellar luxation, concomitant cranial cruciate ligament rupture, and complications were retrieved. Surgically treated cases of patellar luxation in dogs were managed with trochlear block recession(TBR), tibial tuberosity transposition(TTT) stabilised with clip-typed K-wires, retinacular/capsular imbrication, quadriceps muscle releasing and tightening procedures.

Results: 179 dogs (84 males and 95 females) were included. 112 dogs had bilateral luxation and 67 dogs had unilateral luxation. Mean age was two years, and mean weight was 3.2kg. The relative risk for maltese and yorkshire terrier was 64 %. All luxations were developmental. Luxations were medial in 273 stifles and lateral in eighteen. 26 stifles had concomitant cranial cruciate ligament rupture. As the grade of patellar luxation increased, so did the grade of lameness. Overall frequency of postoperative complications was 13%. Frequency of major (requiring revision surgery) complications was 7%. Frequency of patellar reluxation was 4%. Frequency of overall and major complications was as higher for dogs as higher grades of patellar luxation.

Clinical Relevance: TBR and TTT may help limit the development of stifle DJD in dogs treated for canine patellar luxation. Information derived from this study can be used to estimate the likelihood of postoperative complications for canine patients undergoing corrective surgery for patellar luxation.

Key words: patellar luxation, trochlear block recession(TBR), tibial tuberosity transposition(TTT), dogs

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