World Journal of Clinical Cases

World J Clin Cases 2023 June 26; 11(18): 4210-4457





Contents

Thrice Monthly Volume 11 Number 18 June 26, 2023

REVIEW

4210 Should gastroenterologists prescribe cannabis? The highs, the lows and the unknowns Samuel S, Michael M, Tadros M

MINIREVIEWS

- 4231 Application of artificial intelligence in trauma orthopedics: Limitation and prospects Salimi M, Parry JA, Shahrokhi R, Mosalamiaghili S
- 4241 Weight loss maintenance after bariatric surgery Cho YH, Lee Y, Choi JI, Lee SR, Lee SY
- Bicuspid aortic valve with associated aortopathy, significant left ventricular hypertrophy or concomitant 4251 hypertrophic cardiomyopathy: A diagnostic and therapeutic challenge

Sopek Merkaš I, Lakušić N, Predrijevac M, Štambuk K, Hrabak Paar M

4258 Application experience and research progress of different emerging technologies in plastic surgery Yang B, Yang L, Huang WL, Zhou QZ, He J, Zhao X

ORIGINAL ARTICLE

Case Control Study

4267 Multimodal integrated intervention for children with attention-deficit/hyperactivity disorder Lv YB, Cheng W, Wang MH, Wang XM, Hu YL, Lv LQ

Retrospective Study

4277 Portal vein computed tomography imaging characteristics and their relationship with bleeding risk in patients with liver cirrhosis undergoing interventional therapy

Song XJ, Liu JL, Jia SY, Zhang K

Observational Study

4287 Wrist-ankle acupuncture combined with pain nursing for the treatment of urinary calculi with acute pain Wu LM, Liu Q, Yin XH, Yang LP, Yuan J, Zhang XQ, Wang YL

CASE REPORT

4295 Coexistence of diffuse large B-cell lymphoma, acute myeloid leukemia, and untreated lymphoplasmacytic lymphoma/waldenström macroglobulinemia in a same patient: A case report

Zhang LB, Zhang L, Xin HL, Wang Y, Bao HY, Meng QQ, Jiang SY, Han X, Chen WR, Wang JN, Shi XF

4306 Collagen fleece (Tachosil®) for treating testis torsion: A case report

Kim KM, Kim JH



World Journal of Clinical Cases

Contents

Thrice Monthly Volume 11 Number 18 June 26, 2023

4313 Morphological features and endovascular repair for type B multichanneled aortic dissection: A case report Lu WF, Chen G, Wang LX 4318 Hepatic inflammatory myofibroblastic tumor: A case report Tong M, Zhang BC, Jia FY, Wang J, Liu JH 4326 Endometriosis of the lung: A case report and review of literature Yao J, Zheng H, Nie H, Li CF, Zhang W, Wang JJ 4334 Delayed dislocation of the radial head associated with malunion of distal radial fracture: A case report Kim KB, Wang SI 4341 Synchronous endometrial and ovarian cancer: A case report Žilovič D, Čiurlienė R, Šidlovska E, Vaicekauskaitė I, Sabaliauskaitė R, Jarmalaitė S 4350 Nivolumab-induced tumour-like gastritis: A case report Cijauskaite E, Kazenaite E, Strainiene S, Sadauskaite G, Kurlinkus B 4360 Solitary thyroid gland metastasis from rectal cancer: A case report and review of the literature Chen Y, Kang QS, Zheng Y, Li FB 4368 Anesthesia for extracorporeal membrane oxygenation-assisted thoracoscopic lower lobe subsegmental resection in a patient with a single left lung: A case report Wang XF, Li ZY, Chen L, Chen LX, Xie F, Luo HQ 4377 Indium chloride bone marrow scintigraphy for hepatic myelolipoma: A case report Sato A, Saito K, Abe K, Sugimoto K, Nagao T, Sukeda A, Yunaiyama D 4384 Fibromatosis-like metaplastic carcinoma of the breast: Two case reports Bao WY, Zhou JH, Luo Y, Lu Y 4392 Perforating and ophthalmic artery variants from the anterior cerebral artery: Two case reports Mo ZX, Li W, Wang DF 4397 Diagnostic use of superb microvascular imaging in evaluating septic arthritis of the manubriosternal joint: A case report Seskute G, Kausaite D, Chalkovskaja A, Bulotaite E, Butrimiene I 4406 Primary prostate Burkitt's lymphoma resected with holmium laser enucleation of the prostate: A rare case report Wu YF, Li X, Ma J, Ma DY, Zeng XM, Yu QW, Chen WG 4412 Pancreatitis, panniculitis and polyarthritis syndrome: A case report Pichler H, Stumpner T, Schiller D, Bischofreiter M, Ortmaier R 4419 Acute neck tendonitis with dyspnea: A case report Wu H, Liu W, Mi L, Liu Q

П

World Journal of Clinical Cases

Contents

Thrice Monthly Volume 11 Number 18 June 26, 2023

4425 Next-generation sequencing technology for the diagnosis of Pneumocystis pneumonia in an immunocompetent female: A case report

Huang JJ, Zhang SS, Liu ML, Yang EY, Pan Y, Wu J

4433 Superior laryngeal nerve block for treatment of throat pain and cough following laryngeal herpes zoster: A case report

Oh J, Park Y, Choi J, Jeon Y

Removal of unexpected schwannoma with superficial parotidectomy using modified-Blair incision and 4438 superficial musculoaponeurotic system folding: A case report

Nam HJ, Choi HJ, Byeon JY, Wee SY

4446 Simultaneously metastatic cholangiocarcinoma and small intestine cancer from breast cancer misdiagnosed as primary cholangiocarcinoma: A case report

Jiao X, Zhai MM, Xing FZ, Wang XL

LETTER TO THE EDITOR

4454 Erroneous presentation of respiratory-hemodynamic disturbances and postsurgical inflammatory responses in patients having undergone abdominal cavity cancer surgery

III

Idrissov KS, Mynbaev OA

Contents

Thrice Monthly Volume 11 Number 18 June 26, 2023

ABOUT COVER

Editorial Board Member of World Journal of Clinical Cases, Guoping Zheng, MD, PhD, Associate Professor, Faculty of Medicine and Health, Sydney Medical School-Westmead Clinical School, The University of Sydney, Sydney 2145, Australia. guoping.zheng@sydney.edu.au

AIMS AND SCOPE

The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

INDEXING/ABSTRACTING

The WICC is now abstracted and indexed in Science Citation Index Expanded (SCIE, also known as SciSearch®), Journal Citation Reports/Science Edition, Current Contents®/Clinical Medicine, PubMed, PubMed Central, Reference Citation Analysis, China National Knowledge Infrastructure, China Science and Technology Journal Database, and Superstar Journals Database. The 2022 Edition of Journal Citation Reports® cites the 2021 impact factor (IF) for WJCC as 1.534; IF without journal self cites: 1.491; 5-year IF: 1.599; Journal Citation Indicator: 0.28; Ranking: 135 among 172 journals in medicine, general and internal; and Quartile category: Q4.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ying-Yi Yuan; Production Department Director: Xu Guo; Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Thrice Monthly

EDITORS-IN-CHIEF

Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja

EDITORIAL BOARD MEMBERS

https://www.wjgnet.com/2307-8960/editorialboard.htm

PUBLICATION DATE

June 26, 2023

COPYRIGHT

© 2023 Baishideng Publishing Group Inc

INSTRUCTIONS TO AUTHORS

https://www.wjgnet.com/bpg/gerinfo/204

GUIDELINES FOR ETHICS DOCUMENTS

https://www.wjgnet.com/bpg/GerInfo/287

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

https://www.wjgnet.com/bpg/gerinfo/240

PUBLICATION ETHICS

https://www.wjgnet.com/bpg/GerInfo/288

PUBLICATION MISCONDUCT

https://www.wjgnet.com/bpg/gerinfo/208

ARTICLE PROCESSING CHARGE

https://www.wignet.com/bpg/gerinfo/242

STEPS FOR SUBMITTING MANUSCRIPTS

https://www.wjgnet.com/bpg/GerInfo/239

ONLINE SUBMISSION

https://www.f6publishing.com

© 2023 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com

ΙX



WJCC https://www.wjgnet.com

Submit a Manuscript: https://www.f6publishing.com

World J Clin Cases 2023 June 26; 11(18): 4334-4340

DOI: 10.12998/wjcc.v11.i18.4334

ISSN 2307-8960 (online)

CASE REPORT

Delayed dislocation of the radial head associated with malunion of distal radial fracture: A case report

Ki Bum Kim, Sung Il Wang

Specialty type: Orthopedics

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): A Grade B (Very good): 0 Grade C (Good): 0 Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Kumar GM Y, India

Received: February 6, 2023 Peer-review started: February 6, 2023

First decision: May 8, 2023 Revised: May 14, 2023 Accepted: May 24, 2023 Article in press: May 24, 2023 Published online: June 26, 2023



Ki Bum Kim, Sung II Wang, Department of Orthopaedics Surgery, Jeonbuk National University Medical School, Research Insitute of Clinical Medicine of Jeonbuk National University-Biomedical Research Insitute of Jeonbuk National University Hospital, Jeonju 561-756, Republic of Korea

Corresponding author: Sung Il Wang, MD, PhD, Adjunct Associate Professor, Department of Orthopaedics Surgery, Jeonbuk National University Medical School, Research Insitute of Clinical Medicine of Jeonbuk National University-Biomedical Research Insitute of Jeonbuk National University Hospital, 567 Baekje-ro, Dukjin-gu, Jeonju 561-756, South Korea.

wsi1205@naver.com

Abstract

BACKGROUND

Traumatic radial head dislocation (RHD) is a well-described injury in the pediatric population. It is usually associated with an injury to the ulna in Monteggia fracture-dislocation, although it can occur as an isolated injury. Traumatic RHD with ipsilateral radial shaft fracture has rarely been reported. Delayed RHD secondary to the malunion of an isolated radial shaft fracture is extremely rare.

CASE SUMMARY

We report a 9-year-old boy with limited pronation of the right elbow. The patient was diagnosed with delayed RHD associated with the malunion of a distal radial fracture. Since the annular ligament was disrupted with forearm rotation causing subluxation of the radial head, a modified double-strip Bell Tawse procedure was performed to reconstruct the annular ligament without corrective osteotomy for the malunited site. Four years after surgery, the angulation deformity of the distal radius was corrected with the restoration of the normal curvature of the radius. There was no recurrence of RHD.

CONCLUSION

Annular ligament reconstruction without corrective osteotomy could reduce RHD and restore the normal curve of the radial shaft in children with delayed dislocation of the radial head associated with malunion of the radial shaft. Annular reconstruction using double triceps tendon strips might be useful for maintaining a more stable reduction by augmenting anterolateral parts.

Key Words: Dislocation; Radial head; Malunion; Radius shaft; Reconstruction; Annular ligament; Case report

©The Author(s) 2023. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: Delayed radial head dislocation secondary to the malunion of an isolated radial shaft fracture is extremely rare. Corrective wedge osteotomy was performed in all previously reported cases to restore the normal curve of the radial shaft. The authors report a case in which the normal curve of the radial shaft was restored with a modified double-strip Bell Tawse procedure without corrective wedge osteotomy.

Citation: Kim KB, Wang SI. Delayed dislocation of the radial head associated with malunion of distal radial fracture: A case report. World J Clin Cases 2023; 11(18): 4334-4340

URL: https://www.wjgnet.com/2307-8960/full/v11/i18/4334.htm

DOI: https://dx.doi.org/10.12998/wjcc.v11.i18.4334

INTRODUCTION

Traumatic radial head dislocation (RHD) with ipsilateral radial shaft fracture has rarely been reported[1, 2]. Delayed RHD secondary to the malunion of an isolated radial shaft fracture is extremely rare. Only four such cases have been reported in the English-language literature [3-6]. Thus, currently, there are no clear guidelines on surgical methods that can be successfully used for RHD with the malunion of a radial shaft fracture.

Corrective wedge osteotomy was performed in all previous cases to restore normal radial curvature (Table 1).

Herein, we report a case of delayed RHD associated with the malunion of a distal radial fracture in a 9-year-old boy. In the present case, the modified double-strip Bell Tawse procedure without corrective wedge osteotomy reduced the RHD and restored the normal curve of the radius shaft.

CASE PRESENTATION

Chief complaints

A 9-year-old boy visited our clinic complaining of pain and pronation limitation of the left forearm.

History of present illness

The patient sustained an angulated left distal radial fracture without a concomitant injury after falling from a height of three meters three months earlier. His fracture was immobilized with an above-elbow plaster cast for six weeks after closed reduction at a local clinic.

History of past illness

Computed tomography (CT) images of the left forearm performed at the time of injury showed a fracture with angulation of the radius at the distal third (Figure 1A). There was no dislocation of the radial head (Figure 1B). Two weeks after the injury, there was no evidence of displacement progression in the radial fracture, although mild subluxation of the radial head was observed radiographically.

Personal and family history

The patient had no significant medical history. No specific genetic disease was found in the family history.

Physical examination

Physical examination revealed limited pronation of the last 35° in the forearm.

Imaging examinations

Malunion with a posterior convex deformity of 22° was observed at the radial fracture site on the radiograph taken at our clinic three months after the injury.

FINAL DIAGNOSIS

The patient was diagnosed with a delayed dislocation of the radial head associated with the malunion of a distal radial fracture (Figure 1E).

Table 1 Clinical information on the present case and previously published four cases related to delayed radial head dislocation with malunion of radial fracture

Ref.	Gender (boy/girl)	Age (yr)	Fracture site of radius	Initial treatment	Time interval between injury and operation (mo)	Treatment method	Metal removal
Kim et al (present case)	Boy	9	Distal 1/3	CR and cast immobilization	3	Annular ligament reconstruction	(-)
Yasutomi <i>et al</i> [3], 2000	Boy	15	Mid 1/3	CR and cast immobilization	36	Corrective osteotomy	(+)
Yamazaki et al [4], 2007	Girl	12	Proximal 1/3	CR and cast immobilization	6	Corrective osteotomy+annular ligament repair	(+)
Wang et al[5], 2022	Boy	12	Proximal 1/3	CR and cast immobilization	16	Corrective osteotomy+annular ligament reconstruction	(+)
Haines <i>et al</i> [6], 2020	Girl	2	Proximal 1/3	CR and cast immobilization	10	Corrective osteotomy	(+)

CR: Closed reduction.

TREATMENT

Although the patient was asymptomatic except for limitations in pronation, as his skeleton matures, radial head dislocation could cause long-term problems with forearm rotation and elbow function. Since remodeling ability remained in the malunion three months after injury in this 9-year-old child, good results could be obtained without corrective osteotomy as long as the reduction of the radial head and sufficient stability of the radiocapitellar joint could be maintained.

The elbow joint was approached from the lateral aspect. Soft tissue, such as the joint capsule, was impinged between the capitellum and the radial head. The annular ligament was ruptured, making it difficult to recognize (Figure 2A). After the capsular block was removed, the radial head was reduced. However, rotation of the forearm continued to cause subluxation of the radial head. Thus, an 8 cm × 1 cm strip of lateral triceps fascia and another 5 cm × 1 cm strip were harvested using a posterior incision, leaving the distal portion attached to the proximal ulna. This distal attachment was dissected subperiosteally to the level of the annular ligament insertion on the ulna to provide appropriate alignment of the reconstructed ligament (Figure 2B). After passing this double-strip down to anconeus, the long fascial strip was passed around the neck of the radius from behind to forward and sutured back to itself and the ulnar periosteum. The short strip was additionally augmented to the anterior part of the long strip to provide stability to the radiocapitellar joint (Figure 2C). Finally, reduction of the radial head was performed using transarticular Kirschner wires with the elbow at 90° of flexion and the forearm in neutral rotation. Kirschner wires were removed after cast immobilization for three weeks, and active elbow flexion-extension was started. Active forearm rotation was permitted five weeks after surgery.

OUTCOME AND FOLLOW-UP

The RHD was well reduced within the radiocapitellar joint in the lateral forearm radiograph taken three months after surgery. However, angulation of the distal radius remained (Figure 3A). The angulation deformity of the distal radius was corrected four years after surgery with the restoration of the normal curvature of the radius. There was no recurrence of RHD (Figure 3B). The flexion of the right elbow was 130° with extension at 0°. Supination was 85°, and pronation was 80° for the left forearm (Figure 4).

DISCUSSION

RHD is a well-described injury in the pediatric population. It is usually associated with an injury to the ulna in a Monteggia fracture-dislocation. Although rare, traumatic RHD with ipsilateral radial shaft fracture can occur when excessive pronation force is applied while the radial head is dislocated[7]. Many traumatic dislocations of the radial head are missed during the acute phase of treatment. Weisman et al [8] reported that the diagnosis of traumatic dislocation of the radial head was delayed in 10 (9.1%) of 110 children treated with these injuries. In eight children, the dislocation was overlooked on the initial radiographs. In two children, the radial head was reduced on the initial elbow radiographs. It was dislocated 10 d later in one child and 21 d later in the other. In the present study, we could not

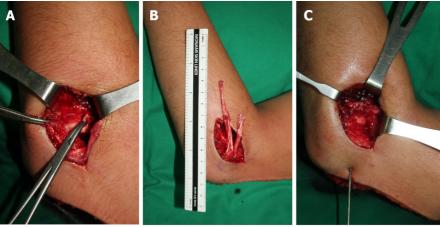


DOI: 10.12998/wjcc.v11.i18.4334 Copyright ©The Author(s) 2023.

Figure 1 Images. A and B: Computed tomography images of the left forearm performed at the time of injury. A linear fracture with angulation is seen in the distal third of the radius (A); there is no radial head dislocation in the elbow joint (B); C and D: Radiographs of the left forearm performed two weeks after the injury. The radial fracture is well reduced and shows no evidence of displacement progression (C); a mild subluxation of the radial head, which was not observed at the time of injury, is seen at the elbow joint (D); E: Preoperative radiographs of the left forearm performed three months after the injury. Malunion with a posterior convex deformity of 22° at the radial fracture site associated with complete anterior dislocation of the radial head is shown.

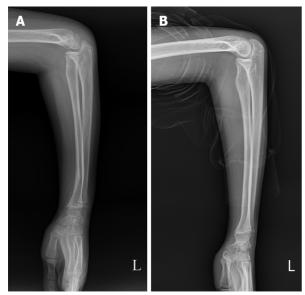
obtain initial elbow radiographs of the patient taken at a local clinic. The radial head was well positioned at the radiocapitella joint without subluxation or dislocation on CT images at the time of injury (Figure 1A and B). However, radiographic evaluation of the elbow using the radiocapitellar line showed subluxation of the radial head two weeks after the injury (Figure 1C and D). Radiographs taken 12 wk after the injury showed dislocation (Figure 1E). The most likely explanation was that the radial head might have dislocated at the time of impact and spontaneously reduced by the time the first radiographs were obtained. It was then re-dislocated while the arm was in a cast.

Delayed RHD associated with the malunion of an isolated radial shaft fracture is extremely rare. Only four such cases have been reported in the English-language literature [3-6]. Currently, there are no clear guidelines on surgical methods that can be successfully used for delayed RHD with the malunion of a radial shaft fracture. A study has performed corrective osteotomy to restore the normal curve of forearm bones and prevent dislocation of the radial head in a 15-year-old boy[3]. Yamazaki et al[4] have performed a corrective osteotomy of radial shaft and repair of the annular ligament in six months after the injury. In another report, a 12-year-old boy underwent corrective osteotomy with annular ligament reconstruction at 16 mo after injury [5]. In previously reported cases, corrective wedge osteotomy was performed in all cases to restore the normal curvature of the radius, with the repair or reconstruction of the annular ligament performed in two cases for RHD (Table 1) [3-6]. However, in the present case, the question was whether corrective osteotomy should be additionally performed in a situation where open reduction and repair or reconstruction of the annular ligament was considered. Although Sinikumpu et al[9] reported that operative treatment could be considered for angulation of more than 15° in forearm shaft fractures in children older than 8 years old, we judged that there was still the ability for spontaneous remodeling at the fracture site without corrective osteotomy on radiographs taken 12 wk after injury in our patient. Therefore, this lesion was treated with only annular ligament reconstruction



DOI: 10.12998/wjcc.v11.i18.4334 Copyright ©The Author(s) 2023.

Figure 2 Surgical findings of dislocation of the radial head associated with malunited radial shaft. A: The elbow joint was approached from the lateral aspect. Soft tissue, such as the joint capsule, was impinged between the capitellum, and the radial head and annular ligament were ruptured, making it difficult to recognize; B: An 8 cm × 1 cm strip of lateral triceps fascia and another 5 cm × 1 cm strip were harvested using a posterior incision, leaving the distal attached to the proximal ulna; C: The long fascial strip was passed around the neck of the radius from behind to forward and sutured back to itself and the ulnar periosteum. The short strip was additionally augmented to the anterior part of the long strip. Finally, reduction of the radial head was held using transarticular Kirschner wires with the elbow in 90° of flexion and the forearm in neutral rotation.



DOI: 10.12998/wjcc.v11.i18.4334 Copyright ©The Author(s) 2023.

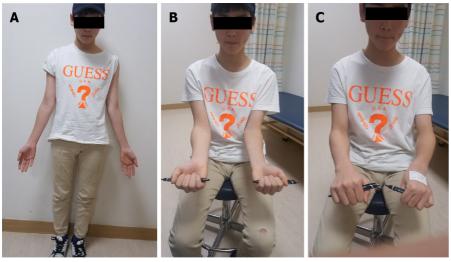
Figure 3 Radiographs of the left forearm performed during postoperative follow-up. A: The radial head dislocation was well reduced within the radiocapitellar joint in the forearm lateral radiograph taken three months postoperatively, although angulation of the distal radius remained; B: Four years after surgery, the angulation deformity of the distal radius was corrected with the restoration of the normal curvature of the radius, showing no recurrence of radial head dislocation.

using triceps strips without corrective osteotomy of the radial shaft. The reduction of the radial head was well-maintained four years postoperatively, and the normal curve of the radial shaft was restored.

Several resources have been used for reconstructing the annular ligament, including grafts from fascial strips of the forearm, fascia lata, tendon of palmaris longus, triceps tendon, and extensor aponeurosis[10]. However, each of these tissues has drawbacks. The forearm fascia and tendon of the palmaris longus are too weak to restrict the radius, and an additional incision is required for harvesting fascia lata.

The Bell Tawse procedure was originally introduced to treat a malunited anterior Monteggia fracture [11]. Bell Tawse described reconstruction of the annular ligament by turning down a strip of the triceps tendon, leaving it attached to the ulna, passing it around the neck of the radius from behind to forward, and securing it through a drilled hole in the ulna. Since its original description, several variations of the Bell Tawse procedure have been published. Lloyd-Roberts et al[12] preferred reconstruction of the

4338



DOI: 10.12998/wjcc.v11.i18.4334 **Copyright** ©The Author(s) 2023.

Figure 4 Clinical photographs taken at the last follow-up. A: The active range of motion was 130° of flexion, 0° of extension; B: 85° of supination; C: 80° of pronation for the left elbow in the last follow-up photographs.

annular ligament using a lateral slip of the triceps tendon because it confined the operation to one surgical field. In addition, preservation of the normal ulnar attachment inspires confidence in the viability of the refashioned ligament. Hurst et al [13] suggested that it is important to strip the tendon of the proximal olecranon with a 2- to 3-cm segment of the dorsal periosteum so that the attachment site of the newly reconstructed ligament will be parallel to the radial neck, not proximal to it. This alignment more closely approximates the normal anatomy of the annular ligament, unlike fixation to the olecranon. We also prefer to reconstruct the annular ligament using the triceps tendon. During the procedure, we dissected the distal attachment subperiosteally to the level of the annular ligament insertion in the ulna, as suggested by Hurst et al[13]. However, it is difficult to always obtain a good quality fascia strip of sufficient length for successful reconstruction since re-dislocation may occur as the graft material becomes loose. We have recently used a double-strip procedure that includes the lateral portion of the triceps tendon. First, the long strip was passed around the neck of the radius from behind to forward and sutured to itself and the ulnar periosteum. Next, the short strip was additionally reinforced in the anterior part of the long strip. This modified double-strip procedure is thought to provide greater stability to the radiocapitellar joint than a single strip, although biomechanical studies need to be performed in the future. Therefore, we could prevent limitations in the range of motion of the forearm by removing the transarticular Kirschner wire after three weeks and allowing active forearm rotation from four weeks after surgery.

CONCLUSION

In the present case, annular ligament reconstruction alone without corrective wedge osteotomy reduced RHD and restored the normal curve of the radial shaft. A modified double-strip Bell Tawse procedure might be useful for maintaining a more stable reduction through the plication of anterolateral parts.

FOOTNOTES

Author contributions: Wang SI designed the case report; Kim KB performed the research; Wang SI and Kim KB analyzed the data and wrote the manuscript; and all authors read and approved the final manuscript.

Informed consent statement: Informed written consent was obtained from the patients for the publication of this report and any accompanying images.

Conflict-of-interest statement: The authors declare that they have no conflict of interest.

CARE Checklist (2016) statement: The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by



WJCC https://www.wjgnet.com

external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is noncommercial. See: https://creativecommons.org/Licenses/by-nc/4.0/

Country/Territory of origin: South Korea

ORCID number: Ki Bum Kim 0000-0003-0990-4017; Sung II Wang 0000-0002-3890-6516.

S-Editor: Chen YL L-Editor: A P-Editor: Chen YL

REFERENCES

- Simpson JM, Andreshak TG, Patel A, Jackson WT. Ipsilateral radial head dislocation and radial shaft fracture. A case report. Clin Orthop Relat Res 1991; 205-208 [PMID: 2019052 DOI: 10.1097/00003086-199105000-00031]
- Adhikari A, Acharya S, Bhandari R. Radial Head Dislocation with Ipsilateral Proximal Shaft of Radius Fracture: A Case Report. JNMA J Nepal Med Assoc 2020; **58**: 416-418 [PMID: 32788759 DOI: 10.31729/jnma.4991]
- Yasutomi T, Nakatsuchi Y, Koike H. Anterior dislocation of the radial head secondary to malunion of the forearm bones. J Shoulder Elbow Surg 2000; 9: 536-540 [PMID: 11155310 DOI: 10.1067/mse.2000.109409]
- Yamazaki H, Kato H, Yasutomi T, Murakami N, Hata Y. Delayed radial head dislocation associated with malunion of radial shaft fracture: a case report. J Shoulder Elbow Surg 2007; 16: e18-e21 [PMID: 17399620 DOI: 10.1016/j.jse.2006.05.014]
- Wang SI, Lee SC. Delayed anterolateral radial head dislocation secondary to radial shaft fracture malunion: A case report. Medicine (Baltimore) 2022; 101: e28661 [PMID: 35147088 DOI: 10.1097/MD.00000000000028661]
- Haines S, Amirfeyz R. Corrective osteotomy for a malunited proximal radius fracture causing radio-capitellar dislocation in a paediatric patient: A case report. Shoulder Elbow 2020; 12: 368-372 [PMID: 33093875 DOI: 10.1177/1758573219828751]
- Jadaan M, Jain SK, Ahmed A, Khayyat G. Ipsilateral Radial Head Dislocation and Radial Shaft Fracture in a Child-A Case Report. J Orthop Case Rep 2014; 4: 9-11 [PMID: 27298971 DOI: 10.13107/jocr.2250-0685.184]
- Weisman DS, Rang M, Cole WG. Tardy displacement of traumatic radial head dislocation in childhood. J Pediatr Orthop 1999; **19**: 523-526 [PMID: 10413006 DOI: 10.1097/00004694-199907000-00020]
- Sinikumpu JJ, Serlo W. The shaft fractures of the radius and ulna in children: current concepts. J Pediatr Orthop B 2015; 24: 200-206 [PMID: 25714940 DOI: 10.1097/BPB.000000000000162]
- Tan L, Li YH, Sun DH, Zhu D, Ning SY. Modified technique for correction of isolated radial head dislocation without apparent ulnar bowing: a retrospective case study. Int J Clin Exp Med 2015; 8: 18197-18202 [PMID: 26770420]
- Bell Tawse AJ. The treatment of malunited anterior Monteggia fractures in children. J Bone Joint Surg Br 1965; 47: 718-723 [PMID: 5846773 DOI: 10.1302/0301-620X.47B4.718]
- Lloyd-Roberts GC, Bucknill TM. Anterior dislocation of the radial head in children: aetiology, natural history and management. J Bone Joint Surg Br 1977; 59-B: 402-407 [PMID: 925049 DOI: 10.1302/0301-620X.59B4.925049]
- Hurst LC, Dubrow EN. Surgical treatment of symptomatic chronic radial head dislocation: a neglected Monteggia fracture. J Pediatr Orthop 1983; 3: 227-230 [PMID: 6863531 DOI: 10.1097/01241398-198305000-00015]

4340



Published by Baishideng Publishing Group Inc

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA

Telephone: +1-925-3991568

E-mail: bpgoffice@wjgnet.com

Help Desk: https://www.f6publishing.com/helpdesk

https://www.wjgnet.com

