

Orthopaedic and Sports Injuries Services "OASIS"

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For My Students

Past

Present

Future

The First Case Report

The first ever case report



The First Case Report

Objectives

Structures at risk in Shoulder dislocation



The First Case Report

Statement

Clinical Features

Treatment

Summary



The First Case Report

When King Jeroboam heard what the man of God cried out against The alter at Bethel, he stretched out his hand from the altar and said, “Seize him!” But the hand he stretched out toward the man shrivelled up so he could not pull it back *(1 Kings 13:4 Bible New international version.)*



The First Case Report

Objectives

Structures at risk in Shoulder dislocation



The First Case Report

99% of diagnosis in shoulder surgery depends on the patients medical history and examination very little is based on results of various lab tests and investigation .

Simon Lambert Problem Shoulder Unit RNOH.

(Personal communication.)



The First Case Report

Age : King J's age is not recorded but he was 30 years old when he took the throne, and since he reigned for 22 years (*The divided Kingdom, the concise Bible dictionary 1929 p21.*) his affliction could have occurred any time between 30 and 50 years.



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Mechanism Of injury : The king was praying facing the alter (I kings 12:28-33 American revision committee.) when he suddenly shouted, Although it is not recorded which hand he used it was probably the right as the bible always records the use of left hands. (Coran S Porec, Fifty centuries of Right handedness in the History 1977.)



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Mechanism Of injury : When the King gave his command he stretched out his hand and made a movement of extension, accompanied by abduction and external rotation , more over the King's movements would have been made with anger and emotion, and could easily have resulted in **anterior dislocation**.



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Complication : Rowe and Sakellarides reported that the frequency of anterior dislocation is the same before and after 45.

However before 45 the principal problem was recurrence of dislocation and after 45 it was peripheral nerve injury and the rotator cuff.



The First Case Report

Complication : King Js dislocation was never mentioned again in the Bible, so the most likely complication was peripheral nerve injury.

Lending further support to this theory is the biblical description of how the king could not maintain his hand in normal position or extend it. (I King 13:4 La Santa Biblia 1569)

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Peripheral nerve injuries : Anterior shoulder dislocations produces 35% of injuries to the peripheral nerves in upper limb (Rockwood and Green Vol I Lippincott Publication 1998) The axillary nerve is affected in 20% of cases (Travlos J , et al JBJS Br 1990.)

This affects the deltoid and Teres minor muscles which were not affected.

The First Case Report

Peripheral nerve injuries : Injury to the radial nerve however causes paralysis of the Brachioradialis muscle and the extensor muscles of the finger and thumb.

This is what seems to be described in King J's case.



The First Case Report

Treatment : Voluntary type of lesion is associated with emotional or Psychiatric disorders and should never be treated surgically

Biofeedback treatment produces good results in patients with such lesions.



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Treatment : The vocal technique in which the physicians words acts as an anaesthetic is used in some cases of anterior shoulder injury.

(Rockwood and Green Vol I Lippincott Publication 1998)



The First Case Report

Treatment : In this case the King asked Prophet
“To intercede with the Lord your God and pray
for me that my hand be restored. So the man of
God interceded with the Lord and the Kings
hand was restored and became as it was before.”
(I King 13:6 new international version.)

After the prophet prayed recovery came.



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Treatment : Several investigations have shown that prayer can decrease anxiety in a great percentage of cases. (Wilson P W Mental health benefits of religious salvation Dis of Nerv System 1977)

In case of atrial fibrillation the patient showed dramatic Prayer meeting Cardioversion. (Prayer meeting cardioversion Ann Intern Medicine 1986)



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Treatment : These reports led me to theorise that the prophet prayers for the king produced muscle relaxation , close reduction , and subsequent recovery.



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Evoloution : The period between the prayer and recovery is not mentioned but King J finally regained normal function of his hand. (I King 13:6 new international version.)

In general the prognosis is good in such cases
(Travlos J , et al JBJS Br 1990.)



The First Case Report

Evoloution : And in some cases clinical recovery occurs in 1-6 months after treatment (Travlos J , et al JBJS Br 1990.)

If a nerve lesion is found the physical therapy must be more intense.

The nerve can regenerate at approximately 1-3 mm per day. (Kimura J : Electrodiagnosis in diseases of the Nerve and Muscle 1989.

The First Case Report

Summary : My clinical diagnosis is injury to the right radial nerve caused by traumatic voluntary dislocation of the anterior shoulder.

Closed reduction was achieved using the vocal technique of prayer which acted as an anaesthetic and produced muscle relaxation.

Recovery was total.



The First Case Report

Shoulder Dislocation with Radial Nerve Injury



The First Case Report



don't stop your curiosity,