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R. B. Kelly, (40)
Labourer,
29 Montpelier Park, Edinburgh.
& 108 New Lane, Patricroft, Manchester.

Accident :- Knocked down by a motor car on 16th March, 1910.

X Ray :- 17.3.10. Transverse fracture of right Humerus
at Deltoid insertion; slight splintering of upper
end of lower fragment, and outward angling at site
of fracture.

Treatment :- From the first without splints. Sling, body
bandage, daily massage and movement.

Progress :- Spasm of Deltoid continued to give trouble for
about two weeks, when firming began to be felt.
The position remained good throughout, and the
callus was plentiful.

On 23rd April, five weeks after the accident, the
union was firm, position good, with wide range of
movement at shoulder joint. He was then able to
swing freely a 4 lb. dumb-bell.

X Ray :- 29th April - Healed fracture in good position.

Dismissed :- 10th May, 1910, eight weeks after accident.
Number of massage Seances - 42.

Report :- 6th March, 1911.
Kelly is at present in Manchester but writes as follows:-
"My work for the past eight weeks has been a very hard
test to my arm viz: - pulling a hand cart out of a field
which/
"which is up to the ankles in mud. My arm troubles me a little but nothing to speak of".

Dr. J. A. Jamieson, Heaton Park, Manchester, kindly consented to examine Kelly and has sent me this report.

"Movement" :-  
  at shoulder        -  perfect.
  at elbow           -  perfect
  at wrist           -  perfect

Grip. :-  Patient says his grip with his right hand is as strong as ever.
It is stronger than his left and appears to me to be quite what I should expect from a man of his musculature.

Work :-  Patient says he could have worked easily in August 1910, but did not commence continuous work till October 1910. He then went into a warehouse, but the work was not what he calls heavy.
In January, 1911, he started and is still at very heavy work, helping to move wrought iron beams 30 feet long by 5\(^{"}\) diameter. He was never on compensation but received £5 from the man who knocked him down.

Measurements :-

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<tr>
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<td>10.5&quot;</td>
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Kelly says he is doing harder work now than ever in his life, but feels only what he calls 'strain' on the middle of his arm, not actual pain."
James Urquhart,  (62)  
Stereotyper,  
c/o Purves, 6 Simon Square, Edinburgh.

X Ray - A 206.

Accident :-  on 26th March, he fell down five steps.

X Ray :-  22.3.10 - Spiral Fracture of Right Humerus in its middle third, with upward displacement of the lower fragment.

Treatment :-  No splints.

Sling, body bandage, daily massage and movement.

Process :-  Firming felt at the end of 2nd week. Sling removed at end of fourth week.

X Ray :-  29.4.10 - Fragments in good position. Union firm, callus plentiful. Range and power of movements at all joints excellent.

Dismissed :-  17th May 1910 - seven weeks after accident.

Number of massage seances - 42

Compensation :-  None

Report :-  23th February, 1911.

He went back to his work immediately after his discharge from S.O.P.D.

The arm felt weak for a week or two. He now knows little difference between his arms.

Photograph shows appearance of arm and power of abduction.
Robert Coxson, (40).
Burnisher, 5 Marshall Court, Greenside.

X Ray - B 23 and 22.

Accident :- On 9th April, 1910, he fell off some steps with his left arm under him.

X Ray :- Spiral Fracture above Deltoid Insertion.

Treatment :- On 10th April, Gooch splints were applied.
He was laid up with Rheumatism and did not return till the 13th April. There was then much ecchymosis and swelling, marked spasm of the deltoid, and overriding of the fragments.

13th April, 1910, splints removed and sling and body bandage alone used. Daily massage and movement commenced.

23rd April, 1910, Ecchymosis and swelling greatly reduced; spasm of deltoid very much less, fragments in good position; patient feel the arm very comfortable.

Progress :- Rapid and uninterrupted.
Number of massage seances - 19 from April 21st.

He left of his own accord on the 12th May, 1910, four and weeks five days after his accident. There was firm union and almost complete range of movement.

Compensation :- None.

Report :- 2nd March, 1911.
He was seven weeks off his work because of this accident.
He felt his arm a little stiff and weak for the first three weeks after his return to work.
He can now do anything with his arm that he could before his accident.
The appearance, musculature and range of movement are excellent, as is shewn in the photograph.
Andrew Turnbull, (66).
Labourer on Railway,  
34 Tower Street, Portobello.

X Ray - B 47.

Accident :- On 15th April, 1910, he fell from a railway 
waggon on to his left hand.

X Ray :- Spiral Fracture of left Humerus just above deltoid 
insertion, with a crack about 2" above on inner 
side.

Treatment :- No splints.  
Sling, body bandage, daily massage and movement.

Progress :- Rapid disappearance of swelling and ecchymosis.  
From the first he felt the arm very comfortable.

Dismissed :- 21st May, 1910, five weeks after accident.  
Number of massage seances - 27.  
Union firm, musculature and range of movement 
excellent.

His son's report - 2nd March 1911.

Andrew Turnbull died of Heart Disease on 2nd January 
1911.

His father had full use of his arm, could lift it 
easily above his head, never complained of it, and 
was quite able for his former work of loading railway 
 Wagons, so far as his arm was concerned.
George Hume, (29).  
Coal carter,  
31 Watson Crescent, Edinburgh.

Accident :-  On the 21st July, 1910 he was kicked on the left arm by a horse. The skin was abraded at site of kick.

X Ray :-  Transverse fracture of Humerus at middle of shaft. Slight outward displacement of lower fragment.

Treatment :-  Sling and body bandage. Daily massage and movement.
Number of massage seances  -  20.

Dismissed :-  29th August, 1910  –  Five and a half weeks after accident. Firm union  –  Full range of movements at wrist, elbow and shoulder.
Fragments united in good alignment.

Report :-  27th March, 1911.
Nine weeks off work because of accident. On compensation during this time. He felt no pain or discomfort on commencing work.
His arm gradually grew stronger. It is quite as strong as his right arm. The appearance of the arm is perfect. The muscles are powerfully developed. He has full range of movements at all the joints.

See X Rays and Photographs  –  27.3.11.
James Grieve, (51)
Postman,
13 Brougham Place, Edinburgh.

Accident :- On 27th October, 1910, he fell over an embankment and broke his left arm. He came to the S.O.P.O. next day.

X Ray :- 29.10.10. Fracture of humerus below deltoid insertion. The fracture is oblique downwards and inwards, and the lower fragment is displaced slightly outwards.

Treatment :- Gooch splints were applied and patient did not return until the 7th November, nine days later. Condition on 7th November :- Great swelling and extensive bruising of whole arm; skin abraded around the elbow; no firming at site of fracture; the deltoid stands out in frequent spasm causing marked angling at site of fracture. All splints were removed, and only a sling and body bandage applied. Massage and movement were commenced at once and continued daily. The masseur was greatly impeded by the abrasion around elbow. It was interesting to note how spasm of the deltoid ceased after superficial massage.

After four days massage i.e. 11th November, two weeks after accident, firming was felt, and spasm of the deltoid had definitely ceased. The patient reported his arm as being very comfortable. He slept well.

On the 21st. Nov., 13 massage seances, all signs of bruising had practically disappeared. The abrasions were not yet healed. On this date, three and a half weeks after accident, patient could voluntarily raise the arm horizontal with the shoulder without any aid.

All/
All movements at wrist, elbow and shoulder were present, although incomplete in range. Callus could be felt at site of fracture. The X Ray of 22.11.10 shows the fragments in perfect alignment, and also shows the young callus. The X Ray of the elbow joint of this date revealed the presence of a supracondylar crack which up till now had been undiscovered and not suspected.

Dismissed :- 17th December, 1910, seven weeks after accident with impaired Extension and Flexion of elbow joint, but complete supination and pronation, complete range of movements at shoulder and wrist, and with a good power of grip. The muscular condition was excellent. Number of massage seances - 31.

Report :- 23.3.11. None.

He returned to his work on the 21st. December, four days after his dismissal. He felt his arm somewhat stiff and weak for about one month. It is daily getting less stiff and stronger.

The muscular condition of the arm is very good indeed. Extension at elbow is still incomplete. He can flex his elbow so that his hand is within 2½" from his shoulder. Shoulder movements are complete in range. Supination and pronation are completely present. There is absolutely no stiffness in fingers or wrist.

See X Rays and Photographs of this date.

Remarks :- Perhaps the most interesting of all the cases of fracture of humerus reported in this series.
Wm. Sherry, (50)  
Painter,  
4 St. Patrick Square, Edinburgh.

Accident :- On 31st December 1910, he fell from a scaffold.

X Ray :- Oblique Fracture of Right Humerus above deltoid insertion; lower fragment displaced outwards; over-riding present to the extent of 1".

Treatment :- Sling, body bandage, daily massage and movement.

Progress :- This case gave trouble throughout.

He was a very nervous man and was not in good health generally. The masseur was new to the methods of treating fractures and was in process of training. Spasm of the deltoid proved very troublesome and patient had pain throughout the course of treatment. Indeed, this case shook one's faith considerably in this method. Yet the ultimate result has proved the wisdom of it.

On the 13.1.11 firming was quite perceptible, but the X Ray of that date showed the displacement was still present.

By the 7th February the union was firm and all his movements good. He could touch the back of his neck and crawl up the wall to almost full abduction. Still he complained of pain over the site of fracture, and was very nervous regarding movements.

On the 14th February, all movements were almost complete
in their range at the shoulder, and quite complete in range and sufficient in power at the wrist and elbow.

On the 21st February, a blister was put on over the site of fracture. He ceased to attend on the 1st March of his own accord.

Number of massage seances – 40.

Report :-

On 15th March 1911.

He has had no pain since the blister was applied and ceased to attend because he felt so much better.

He looked in much better health, was cheerier, and had lost his fear of using the arm. The appearance, musculature, power and range of movement were excellent.

He is going back to his work about the end of March, 1911 and is to report how he finds his arm.

See X Ray and photograph dated 15th March, 1911.

Compensation:- He was on Compensation up to the 1st March, 1911, on which date he came to a settlement for £10.

Remarks :- Was it the blister or the cheque for £10 that made the marked improvement?

The writer favours the efficacy of the cheque.
Philip Hyams, (17).  
Hawker,  
S Waverley Buildings, Edinburgh.

Accident : - On 27th December, 1910 he was knocked down by a cab in London and his right Humerus was broken. His arm was put in splints at Charing Cross Hospital and patient came to Edinburgh by sea. On 4th January 1911, he came to the S.O.P.D., eight days after the accident.

X Ray : - 4.1.11. Transverse Fracture in middle of shaft of Humerus with slight outward displacement of upper fragment.

Treatment : - All splints removed. Sling, body bandage, daily massage and movement.

Progress : - Throughout the treatment, patient felt his arm very comfortable. Two weeks later, 13.1.11, the union was quite firm, and callus plentiful. The X Ray of this date shows the callus. Full movement present at all joints. Four weeks after the accident, the sling was removed.

Dismissed : - 1st February, 1911 - five weeks after the accident.  
Number of massage seances - 21.

Compensation: - None.

He started work as a Hawker eight days after dismissal from S.O.P.D. He feels the arm getting stronger every day. Appearance, musculature power and range of movements excellent.
Thomas Grindlay, 14.  
Apprentice Engineer,  
34 High Riggs, Edinburgh. 

Accident :-  On the 17th March, 1911, his left arm was caught among 
machinery in motion.  

X Ray :-  Transverse fracture of shaft of humerus below the deltoid 
insertion.  No displacement. 

Treatment :-  Gooch ferrule splinting; was applied for three days.  
Then massage and movement were commenced and all splints 
removed, only sling and body bandage being retained. 

Progress :-  27.3.11 - ten days since accident - firm union - 
abundant callus - no pain - arm felt very comfortable. 
He could actively perform all movements of the fingers and 
wrist without discomfort.  The elbow could be flexed 
completely, but extension was not quite complete.  
There were no signs of swelling or bruising.  He could 
abduct the arm without support on a level with the shoulder. 

X Ray :-  27.3.11 shews slight displacement of the lower fragment 
inwards - no shadow is thrown by the callus as yet. 
4.4.11 - Two and a half weeks after accident - there was a 
palpable tumour at the site of fracture.  The question arose 
as to its nature.  Was it a tumour of callus due to too much 
massage or displacement due to too much freedom in regard to 
movements or was it myositis ossificans in the Brachialis 
Anticus?  The movements of the fingers and wrist remained 
free and complete in range.  Flexion at the elbow was slight­ly less than formerly.  The sense of touch - tested by wool, 
was nowhere impaired. 

The masseur reported that he had at first noticed this tumour 
on the 1.4.11 but had not reported it.  An X Ray was taken. 

X Ray :-  /
the movements so excellent in range.

Three days later, 7.4.11 - three weeks after the accident, he was putting on his clothes himself, could flex and extend the elbow almost completely, and raise the arm easily above his head.

The sling was now omitted.

14.4.11. The accompanying photographs shew the appearance of the arm and the range of movements at shoulder and elbow joints, one month exactly after the accident. He had full use of the arm, and his movements were sufficient in power. He never felt any soreness in his arm.