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On Some Difficulties in the
Diagnosis of
Chronic Rheumatism,
with Illustrative Cases.

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In accordance with paragraph XVII of
the Regulations for Graduates in Medicine in
the University of Edinburgh - I certify that
the accompanying Thesis, "On Some Difficulties
in the Diagnosis of Chronic Rheumatism
with Illustrative Cases" has been composed
by myself. David J. Hayfin M.B., Ch.B.

In the routine of a general practice a day seldom passes without a summons to attend a case of what the patient describes as "Rheumatism" - the term used being expressive of the fact that the patient suffers from some pain more or less dull, more or less persistent - usually aggravated by active movement and situated in the neck, back or limbs.

In these circumstances it becomes a matter of considerable importance to discriminate between a great variety of conditions which give rise to pains of such a character, otherwise a case is certain now and then to occur when a mistake in diagnosis

diagnosis brings disrepute upon the practitioner - to say nothing of the unsatisfactory results of any treatment which is content to regard all such pains as of a rheumatic character and to consider them amenable to a single scheme of anti-rheumatic regimen and ~~the~~ drugs.

Consequently, I propose in the first place to enumerate various various disorders which are in my experience likely to be confounded with genuine rheumatism and then to consider even fully those of them which have especially presented themselves in my practice as cases of doubt or difficulty - and from which I have derived valuable hints for future guidance.

Of course if a practitioner be ignorant enough or careless enough, any pain may be regarded and stated by him to be rheumatic - but even assuming a reasonable amount of intelligence and carefulness on his part

part, - serious errors are apt to be made in diagnosis of these cases and are made even by leaders of the profession. This may be well illustrated by a note of Dr. Pye Smith's in Fagge's "Practical Medicine" (1st ed. Vol. I. p. 549) where a case of deep-seated sarcoma was considered to be of a rheumatic nature and the subsequent appearance of secondary nodules in the skin was taken as an example of rheumatic purpura (peliosis rheumatica) proving and supporting the diagnosis in the first instance.

When one is consulted for supposed "rheumatism" the first point to be investigated is the precise situation and distribution of the pain. In determining this, the following classification has occurred to me as a useful one to adopt - viz. -

1. Pain

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1. Pains of joints

A. Acute

Acute Rheumatism

Acute Gout

Pyæmia

Gonorrhœal arthritis

(Phtisical arthritis)

B. Subacute or chronic

Gonorrhœal arthritis

Rheumatoid arthritis

Chronic Gout

Chronic Rheumatism

2. Pains of Muscles (Myalgia)

Inflammatory

Pyrexial

Anæmic

Rheumatic

3. Pains along nerve trunks

Rheumatic neuritis

Neuralgia

Locomotor ataxia

Those caused by pressure on nerves

4. Pains of bones

- Osteitis or periostitis
- Abscess of bone
- Syphilis
- Rickets
- (Chronic Rheumatism)

5. Other deep seated pains eg.

- Lumbar, from renal disease.
- Pain in knee, from hip disease.

On examining the table the first point of interest to be noted is that rheumatism occurs in most of the divisions. Thus there are Rheumatic Myalgia (Lumbago), Rheumatic neuralgia (Sciatica) and Rheumatic Pains in bones, - and in the absence of any adequate pathological definition of Rheumatism I will limit the cases due to it as being those distinctly traceable to exposure to cold or wet, or those occurring in individuals having a rheumatic history or inheritance.

I may add that the mental atti-
-tude

- beside when investigating any case coming under any of the above classes is to reserve Rheumatism as a "demonstrable" in case no other cause for the pain can be discovered after careful examination - or at least to arrive at a diagnosis of Rheumatism only when there is positive evidence in its favour, carefully avoiding the idea that a pain must needs be of a rheumatic character because of one's inability to make out at it the first intention, direct evidence of any other cause for it.

In the first group and first section of it I have placed certain acute affections of joints, because they stand apart by virtue of their acuteness from all other painful affections that follow - and as my difficulties have been chiefly with the more chronic painful affections I propose to refer only briefly to the former.

former.

It may be worth while however
to record a case where an examina-
-tion of the blood for uric acid after
the simple method suggested by
Doct^r Garrod ("Gout and Rheumatic
Gout" III Ed. p. 80) enabled me to char-
-acterize an obscure case of joint dis-
-ease.

J. H., aet 50, a strong labouring man
consulted me about an acute af-
-fection of the knee joint. There was
considerable pain and effusion with
slight superficial redness of the skin.
No other joints were at all affected.
He had never had gout and there
was no history of injury nor of gon-
-orrhoea, the attack being attributed
to cold. The limitation of the disease
raised a doubt in my mind as to
whether it was an ordinary rheu-
-matic attack, and I therefore had
the patient from the arm to four
ounces, - and obtained from the
blood serum a fine crop of uric acid
crystals.

Crystals. This evidence has conclusively,
 and the patient rapidly improved
 under colchicum and was shortly
 afterwards convalescent. The ven-
 -section in such doubtful cases not
 only facilitates exact diagnosis -
 but may, as in the case of this
 man, who declared himself much
 relieved by the operation, produce an
 excellent effect on the mind of the
 patient!

Gonorrhoeal arthritis in either its
 acute or chronic forms is frequently
 a trap for the unwary medical man;
 in fact the only safe way is to
 keep the disease constantly before one's
 mind and to regard with the great-
 -est suspicion any case of rheumatism
 occurring in a young man when its
 course is at all anomalous and es-
 -pecially if it be limited to a single
 joint. In this latter case Gonorrhoeal
 Arthritis should at once suggest itself
 and the medical man should
 insist

insist if necessary, on himself
 examining for any sign of ur.
 -that discharge, because of the tedious
 course of these cases and the obstinate
 way in which they resist treatment.
 If there be present catarrhal con-
 junctivitis with rheumatism and at
 the same time tenderness or pressure
 over the os calcis & plantar fascia
 the probability of gonorrhoea being
 present is increased, and should
 at once put the medical man on the
 alert.

That however gonorrhoea may coexist
 with true rheumatism seems quite
 possible and a case which came
 under my care two or three years
 ago appears to support this view.

J.L., Cambridge, aged 40 - complained
 of rheumatism in the right hip and
 right knee. - He had had gonorrhoea
 for six weeks. His temperature was
 slightly raised (evening 100° 2.) Treat-
 -ment by rest in bed & Soda Salicyl.
 -ate (for 24 hours 4 times) brought
 down

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Down the temperature in two days -
and the pain also completely disap-
peared in the same time.

My own experience in cases of
true gonorrhoeal arthritis is that
Sodium Salicylates is absolutely without
effect on the more chronic cases. In
the acute form it may relieve the
severity of the pain, but it does not
at all modify the tediousness of the
case which lingers on in spite of
it in the usual slow and unsatis-
fying manner.

I may quote another case where I
erroneously diagnosed of gonorrhoeal
arthritis.

H. G., aet 28, a gentleman in business
in London, when at the theatre
one evening sat on the outside seat
of the stalls, opposite a door through
which there came a draught. During
the whole performance. On rising after
a seat of about three hours he felt
the knee and shoulder which had
been next exposed to the draught,
painful

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pains and somewhat stiff. He tried
by a two miles walk to "walk it
off" - but on the contrary the pain
became aggravated and after two
days' suffering he called me in.

From the history he gave me, coupled
with my knowledge of a very decided
family history of rheumatism, I ascribed
his condition to rheumatism from
exposure to cold, and treated him
accordingly, - expecting him in the
course of a few days to be much
better. In this I was disappointed;
after a week's treatment he was
very much "in statu quo". At
this time on further interrogation,
he told me that two months previously
he had contracted gonorrhoea but had
now quite recovered. I found however
on examination that he had a slight
but distinct urethral discharge of
a gleet character - which at once
threw a new light on his case.

The very protracted and tedious course
his illness took, quite convinced me
that

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that I had a genuine case of gonorrhoeal arthritis to deal with, - regarding the true nature of which I had at first been mistaken by the history of the case and by my having omitted to enquire into the existence of gonorrhoea or gleet.

The diagnosis of Rheumatoid arthritis depends mainly upon the peculiar deposits with which it is associated, and which are especially to be sought for in the joints of the wrists and fingers. When the disease attacks only a single joint and especially if that be a deep-seated joint like the hip the diagnosis is not so easy. It is necessary to remember that Rheumatoid arthritis may occur at almost any age. Dr. Garrod (Reynolds' System of Medicine, Vol. I. p. 919. 2d Ed.) says he has seen well marked examples in children of 10 & 12 - and I myself have seen it in patients under twenty

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Twenty years. Intensity for the diagnosis, the characteristic deformities are, as a rule very marked in these young patients.

There is also an acute joint of infection which occurs sometimes with phthisis pulmonalis and which has given rise to discussion upon the point whether rheumatism is not a predisposing cause of phthisis. (Vide. Lancet, July 1873 p. 10 - September 1873 p. 494). I have once seen such a case.

A man aged 38, consulted me for what appeared to be acute rheumatism. Several joints were tender, swollen, and the skin over them red and oed.

-malum. Within about a fortnight this subsided but he developed a cough at the same time, and this was the commencement of a rapid phthisis which proved fatal in about a month. I regret to say that I have no notes of the patient's case; in fact I had

had

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had almost forgotten it until the
above references brought it back
to my recollection.

Passing next to —

Group II. Pains in Muscles.

I would distinguish four classes
which I may term inflammatory,
pyrexial, rheumatic and anaemic.

In the true rheumatic group —
(limiting the term as I have before
mentioned) — there are found a vari-
-ety of pains in the skeletal mus-
-cles of which cramps and stiff-
-ness are familiar examples.

By pyrexial myalgia I mean
the pains which are felt in a
variety of febrile conditions so uni-
-formly that they may be regarded
as part of the symptoms of the feb-
-rile state. There are especially marked
in small pox. So too at the onset of
enteric fever there may be considerable
muscular pain. (Vide. Report of Clinical
Society of London, Lancet April 1884.)

Of

Of Inflammatory myalgia I have little to say.

The commonest form of muscular pain is so called that due to anaemia or debility. The pains experienced after unaccustomed exercise, especially well marked in the adductors of the thighs after riding on horseback, are an example of myalgia produced by fatigue (and closely simulate the pains of rheumatic myalgia). and in persons of feeble or anaemic constitution, especially in pale ladies or young women, the point of muscular exhaustion is so readily reached, that some muscles are almost continually aching - the slightest exertion causing fatigue.

A friend of mine whose practice includes a large dispensary in the city of London tells me that he at once thinks of iron and quinine when he hears the familiar complaint of "Pains all over" among his out-patients.
Here

These are the people who in the higher ranks of life so often condemn themselves to existence upon a sofa; for, finding that muscular effort is painful, they shrink from it as much as possible & so the nutrition of the muscular fibres runs and runs and the disease moves on in a vicious circle.

The muscles of the back in particular, are enabled to maintain the body in an erect attitude without much discomfort and the patient (generally a woman) takes to her couch a martyr to "spinal complaint".

It is frequently a very fine point in treatment to decide whether to prescribe Salicylate or Iron in certain of these anæmic patients, - for, on the one hand vague muscular pains frequently precede the onset of acute articular rheumatism, and further Salicylate are contra-indicated in Anæmia yet to withhold them may be to lose an opportunity -

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opportunity of arresting the onset
of articular rheumatism, - and
this by increasing the importance
of a correct diagnosis, increases
its difficulty at the same time.

Moreover, non-rheumatic myalgia
may complicate rheumatism, or
may occur in patients with a true
rheumatic history. Lately there was
under my care a young lady
who was paying a visit in Kent, -
- she had suffered from rheumatic
fever a few years before. When I
first saw her she had a temperature
of $100^{\circ}.4$ and complained of pain in
various parts of the trunk & limbs.
There was old standing disease of
aortic and mitral valves. At first
judging the case to be one of rheuma.
-tism I treated her with Salicylate
and light diet, but after a few
days with no improvement I
changed the treatment and gave
a liberal diet of meat and fer-
-ricated iron - and the marked
improvement

improvement which followed confirmed
my belief that I had had to do
with a case of simple myalgia
rather than with rheumatism.

In cases of this character, all
points of the case must be care-
fully gone into and weighed. If
the pains are distinctly worse at
night, it is often of some value
as an indication of the rheumatic
condition, although of course by
itself this is not enough to justify
a diagnosis.

Passing on to Group III.

In cases of pain due to morbid
changes in the nerves or their sheaths,
the determination of the exact seat of
pain is of the utmost importance -
and a clue is often obtained from
the relation of the painful parts to
a region of nerve supply. If there
be any definite distribution found
along the course of a nerve, then it
is worth while to search for the
Painful

Painful joints of Valleys, and especially for any trace of muscular paralysis, or of numbness or impaired sensation - or finally, for muscular wasting.

As an example of rheumatic neuralgia there is Sciatica, which in some cases is certainly rheumatic, though by no means always so, else its treatment would be far more simple and more quickly successful. Where all the painful parts are distributed along the course of a single nerve, the diagnosis should hardly be confounded with rheumatism.

The cases of pain from implication of nerves which are the most difficult to recognize are those which are bilateral, from some morbid process in or around the Vertebræ, such as abscess or caries, hæmorrhage or aneurism. Constantly it happens that the first symptom complained of is pain, shooting along arms or legs or both, with pain in some part of the back, and such pains may for a

a long time precede any other and have definite symptoms, such as prominence of any vertebral spines, paralysis, etc.

My father has drawn my attention to a paper in the St. Bartholomew's Hospital (London) Reports for 1883; by Dr. Lewis Jones - on a case of extremely indolgent disease of vertebrae in a child where there were no symptoms but of pain for a period of six weeks; and there, there are references given to several similar cases, & in particular to a paper of Charcot on pain in the limbs caused by secondary deposits of cancer in the vertebrae. (Union Medicale, 1865; p. 195)

A case exactly like that described by Charcot was under my care in 1887. A woman, aged 50, suffered from severe pains distributed over back, legs and arms. She had had a breast removed two years previously for "cancer" but there was no recurrence in the scar. Her back
was

was most carefully examined for any
 abnormal prominence or sign of
 angular curvature, but nothing could
 be found; and there were no other
 symptoms but the pain of which the
 patient - complained much, declaring
 that she was unable to sit up or
 move at all without pain. She was
 querulous and as there were no
 physical signs of disease to be found,
 I regarded her as making a rather
 queer case about her symptoms which I
 attributed to myalgia. However,
 I learnt afterwards that after leaving
 the district she passed under the
 care of another medical man, and
 had developed symptoms of paraly-
 sis of the lower limbs from which
 she died, - so that I now regard
 her case as one of Charcot's cases
 of "painful paraplegia" due to
 vertebral cancer, - secondary to the
 old disease in the breast.

The painful affection of the
 shoulder

Shoulder known as "Deltoid Rheumatism"
 is said by Dr. Bristow ("Theory and
 Practice of Medicine" Ed III. p 1082) to
 be an affection of the circumflex
 nerve. Certainly it is not easily
 subdued by anti-rheumatic treatment.
 In a patient aged 26, a sailor,
 who consulted me for it, alkalies,
 potass. iodid., & the like were ab-
 -solutely without effect on it, - but
 finally after two hypodermic injec-
 -tions of morphine (gr $\frac{1}{6}$) it was
 much relieved. The treatment was
 then suspended as the morphine
 made him feel sick, but the pain
 gradually left him & there was no
 further complaint. Whether it
 returned I am unable to say as
 I have not seen him since.

As an example of pain ascribed
 to rheumatism but really due to
 pressure on nerves I may instance
 that of a man, aged 60, who died
 in February 1888. He had been
 under

Under my care for some months.
 I first saw him in August 1887 sup-
 posing from "rheumatism" about the "Col-
 -lar Bone" as he said. He complained
 of pain in this region more or less
 constant which sometimes took the
 form of stiff neck, sometimes of aching
 in the muscles in the region of
 the shoulder. (I had attended him
 some four or five years previously during
 a very bad attack of acute rheu-
 -matism.) From my previous experi-
 -ence of faulty diagnosis in cases of
 chronic pain, I was unwilling to let
 this down to rheumatism. The possi-
 -bility of aneurism suggested itself
 to me, but I could detect no
 direct symptoms of it. After October
 1887 I lost sight of the man for
 some time - but he came to me
 again in December with hoarseness
 and a suspiciously bounding cough,
 and the pains not a bit better.
 He told me that in the meanwhile
 he had been going to a Street
 hospital

hospital for his hoarseness, where he was told he was suffering from "rheumatism and chronic inflammation of the windpipe." - On examining his throat with the laryngoscope I found marked paralysis of the left vocal chord - Inflammation of the left recurrent laryngeal nerve, - and on extending my examination to his chest I detected well-marked physical signs of aneurysm of the transverse aorta from which he died some weeks after.

The pains of Locomotor Ataxia may also be regarded as rheumatic, at any rate by the patient. I well remember when a student seeing an old gentleman who traced his complaint of "chronic rheumatism" to his having set down to drink in wet clothes in India after having been out shooting. He was shortly afterwards taken ill & as he said, his medical man by treating him improperly with

with Colchicum, had caused him to have rheumatism ever since. I have no doubt that his complaint was ataxia, and I can remember the twinges of pain, (probably lightning pains) which used to seize him, and the awkwardness of his gait.

Pains referred by patients to the shafts of bones may be due to Rheumatism or (apart from periodontitis) to Syphilis. The latter is a common cause and must never be lost sight of. If the pains are localized strictly to a single bone then chronic osteitis may be thought of - and if they are confined to part of a bone, they may be caused by abscess of bone - or localized periostitis - the latter being usually diagnosed by the presence of a bump or node at the part affected. In chronic osteitis the increased thickness of the bone may be felt - and when acute periostitis is a child

Child is mistaken for acute rheumatism, except examination reveals not only that the pain is not articular, but also at an early period fluctuation may be felt, so that the commonest attention should prevent possibility of confusion.

As examples of disease of bone which at first presented symptoms very similar to those of rheumatism - I may note two cases which have quite recently occurred in my practice.

Mrs. J. S. a lady aged 62, assisted in nursing her husband through a protracted illness of two or three years, helping to lift or move him in bed, etc. Her efforts caused eventually much aching in the lumbar muscles; movement aggravating the pain. She in fact presented the usual symptoms of lumbago. Nothing abnormal was to be

be detected on inspection or palpation of the back. Rest, rubbing, anodyne applications, galvanism, etc. was all in turn tried, together with the various internal remedies usually prescribed for rheumatic rheumatism, without beneficial result.

After going on in this unsatisfactory way for some months - she one day on making some effort "felt something give" and next day found a swelling in the groin. This was seen by a well known London Surgeon who diagnosed an aneurism and advised a tumor. In spite of this the swelling increased and the pain in the back became worse. Still nothing abnormal could be detected in the lumbar region. Eventually I thought I could make at deep puncture in the pain and introduced an exploring needle through which came pus. Thereupon I punctured it again with a large aspirator trochar and drew

drew off more than a pint of pus, in which were small pieces of corium bone; - conclusively showing that the irritable "rheumatism" was nothing more nor less than disease of the lumbar vertebrae.

Again, a young lady, aged 21, consulted me for an aching and stiffness about her shoulder and upper part of the arm, which interfered with her playing the violin and rendered movement (especially that which brought the deltoid into action) production of discomfort or actual pain. There was no local tenderness and no elevation of temperature. She had had several attacks of muscular rheumatism during the last two or three years in different parts of the body and inherited a tendency to true rheumatism. In the course of a few weeks the pain began to get worse at night, often interfering with her sleep, but no other

Other symptoms developed and her general health was excellent. About this time, one evening when at a dance she independently when worn sat in a draughty conservatory. During the following night she had a severe attack of shivering and next morning I found her with a temperature of 102° 6 and complaining of great pain and tenderness over the upper part of the humerus.

This rapidly increased in intensity - till the symptoms became so urgent, that I cut down on, and trephined the bone with the result of evacuating about two drachms of pus. After obtaining this relief she made a rapid and perfect recovery - the former "rheumatic" pain quite disappearing.

doubtless there had been some low form of osteitis from the first in this case - though the symptoms exactly simulated those of rheumatism, & though there was a degree of local tenderness and swelling. The chill
 which

which she caught. Suddenly lit up
the smouldering flame and developed
as condition of acute inflammation.

I have known Rickets to be mis-
-taken for rheumatism.

Not long ago, a child aged 20
months, was brought to me who
had considerable pain, tenderness
and swelling of some of her joints.
She had been treated for weeks by
a neighbouring practitioner for
rheumatism without benefit.

Diagnosed Rickets, and under cau-
-ful treatment therefor, her pain
and joint trouble rapidly left her.
The case was rendered more diffi-
-cult by the strong family history
of rheumatism.

Other chronic deep-seated pains
which simulate Rheumatism are
the pains of early Hip joint disease,
especially if the pain at the knee
so dwelt on by Mr. Hilton ("Lectures
on

on Rest and Pain") be present - so that
hips disease may be confounded with
rheumatism and vice versa.

The greatest care is required in the
examination of such cases as the most
experienced surgeons may err in diag-
-nosis.

A patient of mine, a child aged
three years, a few days after being
allowed by her nurse to sit on
damp grass developed a limp and
pain in the hip, - at times keeping
the thigh semiflexed, drawing up the
foot from the ground and crying
when attempts to manipulate or
straighten the limb were made. I
considered her affection rheumatism
and treated her accordingly. As
she did not seem much better
after a few days' treatment, she
was taken to an eminent London

Surgeon who said she had hip dis-
-ease and ordered her to be put with
extension apparatus etc. The parents
however let four or five days elapse
before

before doing anything, and by that
time all symptoms had disappeared!

The pain then are not at all
likely to have arisen from inflam-
-mation of the hip-joint, but in all
probability were simply rheumatic.

Conversely, - as an example of a
case of hip disease which had been
diagnosed as rheumatism - I may
refer to one mentioned by Dr. Hilton
("Lectures on Rest and Pain", p. 216 Ed II.)
where a young gentleman was ad-
vised by a well known Surgeon in
London to take abundance of exercise,
and to go to a hydrothermic estab-
-lishment - to get cured of his 'rheu-
-matism'. The case however very
shortly ^{turned out} to be plainly one of real hip
disease, from which he soon afterwards
died.

Rheumatic Pains may be simu-
-lated not only by spinal disease
(as in the case of Dr. J. S. Hare
already

already quoted) but also by stone in the kidney or perinephritic abscess.

The following is a case in point -

A volunteer, aged 36, when in camp at the latter manoeuvres, lay one night on damp straw. Next morning he complained of stiffness and pain in the back and presented all the symptoms of lumbago. He was in consequence obliged to return home. He kept his bed for two or three days and had the usual local and internal remedies for lumbago. His urine was perfectly normal to both chemical and microscopic examination. His pain increased, remaining confined to the muscles in the lumbar region, - when quiet at rest it was always easier. Firm pressure did not aggravate it.

About a week after he was taken ill, he was seized with a rigor haematuriae followed, with shooting pains down towards the bladder. Twelve hours afterwards a calculus was voided per

her urethra, & his pain ceased.
Next day he said his back felt "quite
right again."

In this brief essay, it has been
my endeavor as far as possible to
write of cases falling under my personal
notice, referring to the publications of
others only where it seemed necessary
to render more complete my propo-
-sition. That in the diagnosis of cases
of chronic ~~thrombosis~~ pain, the
care and ingenuity of the medical
man are frequently taxed to the
utmost.

Chronic thrombosis is a complaint
which one is tempted to treat with
scant attention, owing to its com-
-mon occurrence and to the fact
that its course is for the most part
devoid of exciting incident - but,
as the cases I have quoted will
show, - the medical man who
allows his interest to flag and
neglects

neglects to avail himself of every
possibility due to the nature of each
individual case, is almost sure
to fall into one of the many errors
of diagnosis which surround the
subject on every side.

David L. Rayfair