

1859.

Graduation Thesis.

On the Types and Treatment  
of  
Continued Fever.  
by.

C. R. Boer.

M.D.C.S. & D.L.H.

(1)  
On the Types and Treatment of  
Continued Fever.

I propose in the present Thesis to make some practical remarks upon Continued Fever; more especially in reference to its several varieties or types, and to its treatment. I shall endeavour to confine my remarks to those points upon which I may be able to offer the results of my personal observation rather than attempt the history of a disease now so well understood and described in the standard medical writings of the day.

When I commenced the study of Medicine 30 years ago, the doctrines taught in the Schools were deeply tinged with the principles involved in the writings and lectures of several men of eminence holding peculiar views such as Ackerly, Clutterbuck and Broussais.

A remarkable change has taken place since that time in the opinions and practice of medical men about us as well as many other countries. The practice of Medicine of 1859 is very different to that of 1829. Either disease has attended

essentially in type or our methods  
of treatment have been changed by  
the progress of science and the rich  
store of knowledge which modern  
physiological investigations has  
brought to bear upon our inquiries into  
its causes. The subject is one of the  
most important in medicine and although  
but a few able workers are held by  
eminent men in the profession, there  
is I think a strong tendency to give  
an equal amount of influence to  
both and to regulate our practice  
and found our principles upon known  
facts rather than waste our energies  
and amaze our senses by theoretical  
disputations. Facts are the only  
basis upon which sound principles can  
be established or a rational system of  
medicine built up.

In 1830 I was taught that the  
fever so well and clearly described by  
Cullen as Synocha, Synochus and Typhus  
with its varieties Intus and Exus  
were modifications of one disease that

known as Continued Fever. Until lately this opinion has been universally adopted and described by systematic writers in this country. The division was simple of great practical utility and I believe founded upon a true and sound basis. Within the last few years however Dr. Jenner has proposed not only a new division of the types of continued fever but has formed what nosologists call Typhus into two distinct diseases - characterized by their own peculiar & pathognomonic symptoms and not produced by the same contagion. His division of the forms of Fever shewn by him is

- First. Febricula. or Ephemeral fever
- Second Relapsing fever. which Dr. Keil has proved to be the Typhus or inflammatory form of Cholera.
- Third Typhoid fever. characterized by rose coloured spots and inflammation of Peyer's glands.
- Fourth Typhus febris characterized by acute or less congestion of the brain and mulberry rash or petechiae.

x Continued from

on the skin.

This arrangement has been recognized by Dr. Watson in the fourth edition of his work, and there can be no doubt but that Dr. Jenner has described accurately the form and complication of Fevers

which have of late years been prevalent in London, and it may be in other large towns.

According to my own observations this arrangement is not applicable to the varieties of Continued Fevers observed in the country.

During a practice of 25 years I have seen a great deal of Fevers and the result of my experience I may give <sup>under</sup> the following heads.

1. The forms of fever which I have seen were all referable to one or other of the Divisions of Cullen and I never observed any type of the disease peculiarly characterized by any distinct variety of maculation.
2. I have known the two forms of disease described by Dr Jenner as Typhoid and Typhus occur together in the same village during

### The Same Epidemic

3 The appearance of rose rash or petechiae has been of rare occurrence both in my own practice and of many others whom I have consulted in the East of England.

My opinion which I have formed from these facts is not that Dr Jenner is wrong - but that continued fever assumes its different types of greater or less depravity of the blood according to the locality in which the disease is observed.

Almost all observations upon disease which come before the medical public are made in large towns and the result often is sufficiently obvious. The science of medicine is taught in large towns. Most of the best observers and the most zealous and hard working scientific men are in towns. The medical man in the country on the other hand rarely gives the result of his observations and experience to the world. Many of them

pass through life without ever taking  
a note. We have in fact no authentic  
good record of any extensive observation  
of disease as it occurs in purely  
agricultural districts - and as a  
natural consequence much valuable  
information about the types of various  
disease is entirely lost to Science.

Varieties of Continued Fever. Cullen divided Continued fever  
into Typhus, Typhus and Typhoid  
He defines these forms as "occurring  
without intermission and not produced  
by Miasmata". Typhus or  
inflammatory fever he describes  
"a fever with great heat; hard pulse, head,  
stomach and frequent; urine red; and  
but slight disturbance of the sensorium".  
Typhoid he introduces as a contagious  
fever, pulse small and weak, urine  
little altered and sensorium much disturbed.  
Typhoid he described as a fever  
intermediate between Typhus & Typhoid

The forms of Continued Fever  
which have fallen under my own  
observation have been chiefly the

Typhus and Typhoid of M'Albin, with  
 their several and varied complications  
 and the ~~former~~ symptoms generally  
 recognized by me in practice have  
 been the following - shortly described  
 1 Simple form of Continued Fever.

Headache more or less intense and  
 indisposition to mental or bodily  
 exertion; - a sense of cold trickling or  
 creeping down the back sometimes  
 amounting to distinct rigor; - pain in  
 the limbs; - diminished appetite with  
 an accelerated and sometimes variable  
 pulse. These symptoms may last  
 only a single day - they generally last  
 a week and constitute the Ephemera  
 or Febricula of authors. But if  
 they do not terminate on the 4th day  
 the latitude goes on increasing and the  
 headache becomes more decided, and  
 the pain in the bones more intense;  
 and generally more or less subsiding;  
 to this succeeds great - frequent pulse,  
 thirst, white tongue, great debility,  
 nausea oppression in cardiac region

costive bowels and a peculiar expression  
of countenance. The skin is often hotter  
than those which go on to course Septicæmia  
Often the patient will appear to be going  
on well or even cured when he will be  
attacked perhaps suddenly with great  
depression. The pulse however is generally  
full but compressible; the tongue  
enlarged smooth covered with a white  
mucus and put out in a tremulous  
manner; - Sometimes the pulse will be  
slow and the respiration quick. The  
prostration of strength differs from that  
consequent upon any disease and the  
same remark applies to the mind;  
the patient cannot understand what  
he reads; his face may appear red &  
when you tell him to get up in bed  
he will turn pale and probably fall  
back again. The pain in the head is  
great when the patient sits up; that  
in the back and loins is now con-  
siderable; there is greater susceptibility  
to cold and the functions generally  
become impaired. The pulse varies

From 90 to 120 and after eruption will  
 become laborious. These symptoms  
 may become more severe - still without  
 passing into the worst form of the  
 disease. The tongue gets brown & dry  
 the mouth feels clammy; bowels  
 costive and the abdomen often  
 tympanitic - sometimes tender.  
 Generally the patient recovers in from  
 14 to 21 days from the commencement.

2. Severe form of Continued Fever

Prostration of strength from  
 the first extreme and excitement  
 considerable; pulse quick & not  
 strong; heat variable; circulation  
 probably comparatively slow; the  
 secretion and excretions are obstructed  
 ; sense of taste nearly lost; bowels  
 irregular sometimes costive often loose  
 from commencement; urine scanty  
 and high colored; mental functions  
 inactive; often a distressing sense of  
 soreness all over the body; sleep broken

\* This is quite in accordance with the facts stated from the Clinical Chair in this University as applicable to the Syphilis of Edinburgh.

and disturbed; restlessness; tongue brown  
and dry. Sometimes red and glazed like  
raw beef. And tremulous; The patient  
complains of little pain except in the  
head; there may be pain or not in  
the abdomen. There are generally  
the symptoms of febrile work. & they  
with sometimes take a turn for the  
better on the 7<sup>th</sup> or 11<sup>th</sup> day; generally  
however the increase in intensity  
and delirium muttering or violent  
pain in the abdomen & exhausting

diarrhea supervenes; the lips are  
covered with sores; the tongue becomes  
thickly furled and brown even black  
and fissured. The patient is now in  
great danger! he is suffering from Typhus.

If the case terminate fatally it looks  
generally he before the 17<sup>th</sup> day. In  
fatal cases all the symptoms just  
detailed are increased and the patient  
dies by way of Coma.

Now there are the two principal  
types of simple uncomplicated ~~fever~~  
Continued Fever observed by me in the

Country during the last 25 years. And  
 the latter or severe form may be complicated  
 and is so frequently with

1. Cerebral inflammation or congestion  
 I believe the former is rare.
2. Inflammation of the ~~thoracic~~ lungs  
 or bronchial membrane (frequent)
3. Inflammation or disorganization of  
 the intestinal mucous surface  
 especially the glands of Peyer in the  
 small intestine (frequent)
4. Various eruptions or spots either  
 of a bright rose colour described long  
 ago by Louis as peculiar to  
 intestinal lesion were recently by  
 Jenner. as pathognomonic of  
 such affection - or of a dusky  
 mulberry colour sometimes having  
 the form of ribices. and accompanied  
 with pain or less hemorrhage from  
 the bowels. - both these  
 appearances in the country are  
 rare and only considered as symptoms  
 of a great or less depravity of the  
 blood

5<sup>th</sup> Gastric and hepatic complications  
- the first characterized by great  
Sickness and the latter with by  
dark black stools - as both these  
are combined ~~is~~ not unfrequently in  
country practice.

It would be quite impossible  
to enter here into a description of the several  
varieties of Continued <sup>fever</sup> which result from  
the complications above mentioned. They  
are familiar to all practitioners either  
in Town or Country. I believe them all  
to be varieties of one disease - produced  
by a similar cause and communicable  
one to another in the same ratio as the  
intensity of the disease. The complications  
of petechial eruption or deposits or  
Exanthematous rash I also believe to bear  
a distinct ratio to the depressed condition  
of the blood and not to be typical  
of any distinct variety. These appearances  
~~are~~ however rare in country practice. In the  
worst cases occurring in the Town in  
which I lived which had a population

of 3000 inhabitants I have occasionally  
 seen them and I met a medical gentleman  
 in consultation a short time before I left  
 Suffolk in the summer of 1858 - in a case of  
 Typhus in which miliary rash was freely  
 developed. We both remarked upon the  
 rarity of the circumstance and in a letter  
 which I received from him a few days ago  
 (March 1859) he informs me that he has  
 had no other case where spots of any  
 kind were ~~observed~~ <sup>seen</sup> since.

In the town and immediate neighbor-  
 hood of Stowmarket when I left there was  
 prevalent a purely putrid or hepatic  
 form of Continued Fever in which there  
 were no head symptoms. The disease  
 was chiefly characterized by dark  
 almost black stools with abdominal but  
 not iliac tenderness. After I left the  
 disease spread by contagion & has been in  
 some instances very fatal. I saw no  
 eruption of any kind in the cases which came  
 under my observation. and in answer  
 to a letter which I wrote to Mr Harper  
 a medical gentleman residing at

Now what. I received the following

"I have fortunately lost no cases of the  
fever prevailing here - but a good many  
have died in the practice of my friends  
Six deaths took place in two families  
\* I have never seen any appearance of  
rose rash or petechiae but I have seen  
had one case with rose spots; there are  
no head symptoms. My cases have  
all done well as I fortunately brought  
them through the exhausting disease  
; the stools are perfectly black in all  
cases. I have had a slight attack  
myself."

Another practitioner Mr.  
Martin of Holbrook near Ipswich  
who sees a great deal of disease  
and has had an experience of forty  
years writes me word in a letter dated  
Feb 24. 1859. "I have at this time  
cases of Typhus Intermittens and one of  
grave under my care; none of them  
have either rose rash or petechiae  
I have occasionally seen both these  
symptoms but have never considered

then indicative of any peculiar Type  
but merely a proof of the vitiated state  
of the Blood and consequent want of tone  
in the Capillaries"

In the year 1837 I had the  
opportunity of seeing all the fever cases  
in a small parish in Suffolk of between  
500 and 600 inhabitants. There were  
54 cases, of which 10 died and the  
disease was characterized by both  
head & abdominal symptoms of very  
great severity particularly the former.

There were no "spots" in any single  
case. In 1839 I had 26 cases of  
fever in the same parish, in which the  
principal complication was the hæmorrhage  
surface of intestines and lungs & in some  
pneumonia. Every case was distinctly  
traced to Contagion, but there were no  
spots in any of them.

It may be urged and has been urged  
by some that these spots <sup>were</sup> ~~were~~ not found  
because they were not looked for previous  
to Dr Jenner's doctrine. Even Dr Watson  
uses the unaccountable & word. "As to the

\* Library of Medicine . Art. "Fever"

Spots I never saw them because I never  
looked for them". Surely Dr Watson must  
have known that both kinds of spot  
had long been recognized by practical  
men as occasional appearances in  
fever. And that Louis had long ago  
as noticed by Dr Churton in his excellent  
description\* of these vesicles in 1840 -  
<sup>indicated</sup> ~~described~~ the one as a peculiarly  
characteristic of the enteric form of  
fever so prevalent in France. For my  
own part I may say that I never  
omitted looking out for the appearance  
of these often remarkable prognostic  
signs agreeing with the remark long  
ago made by Rushmore "where black  
livid or dun or greenish spots appear  
no one doubts their malignity; the  
pale florid however the spots are  
the less to be feared; it is a good  
sign when the black or violet spots  
become of a brighter colour. The large  
black or livid spots are almost always  
attended with profuse hemorrhage  
The small dusky brown spots like

fractiles are not much less dangerous than the livid and black, though flows of blood do but seldom accompany them; the vibices or large livid or dark greenish marks seldom appear till very <sup>near</sup> the fatal end"

There can be no doubt however that that Dr. Jenner has conferred a great benefit upon science by the zeal and ability with which he has worked out this subject - and that he has given us a faithful account of the varieties of continued fever which occur in London and perhaps in other large towns. His description of these varieties agrees in the main with that of the observers and is in fact very similar to that of Cullen with the exception of what I cannot help thinking may prove a faulty generalization obtained from facts which have a local significance only. I mean that these spots characterise

Diseases specifically distinct and not communicable from type to type

X

\* *Principles and Practice of Medicine.* 2<sup>d</sup> Ed. 1858

although they undoubtedly are in  
all forms from species to species.

Dr Burnett\* denies the possibility of  
discovering the typhoid from typhus in  
the early stages. which in fact I consider  
if established as I believe it will be by  
further observation must upset the theory  
advanced by Dr Leane on the point.

There is no town in the United Kingdom  
perhaps in which continued fever has  
been more fully investigated than  
this City on the works of Oliver. Christie  
Walter Burnett found no identity and  
as far as I am ascertain ~~to find~~ the  
appearances described by Dr Leane  
as pathognomonic of Typhoid and  
Typhus fever have not been established  
here. In fact I find that the prevailing  
feature in the Pathology of Fever in  
Edinburgh in the absence of any  
morbid sign in the majority of cases  
adequately to account for the symptoms  
observed during life. In Paris in the  
Century they are almost invariably  
connected with lesion of the intestinal

causal - and this circumstance readily accounts  
 for the fact that Louis attached the appearance  
 of rose spots as a pathognomonic sign of  
 disease in Peyer's Plaud. - simply from the  
 absence of other forms by which to institute  
 a rigid comparison. Thus in fact we have  
 a type of Continued Fever in Edinburgh  
 another in London another in Paris and  
 in Country districts - in fact this  
 disease more perhaps than any other  
 of various different forms according to  
 the localities or the habits of the  
 people - in what it occurs; and I  
 do not think it possible that we can  
 lay down any general principle as  
 to the classification of these varieties  
 what I have here applicable with  
 certainty to any other place than that  
 in which they were observed or of the  
 seasons of each year or series of years  
~~which~~ - what you all time have had an  
 important bearing upon disease: It was  
 well remarked by Sydenham that a  
 treatment what might be highly  
 successful in one part of the year

+

might be totally inapplicable at  
another for the same disease. From the  
days ofullen all writers upon fever and  
all observers of fever have regarded the  
eruption as a proof of a great or less amount  
of malignancy and not a evidence of  
"local complication".

I cannot from my own experience  
add anything to what is known of the Pathology  
of Fever. and I shall therefore pass on  
to a brief consideration of the  
Treatment of Continued Fever

When I studied Medicine  
30 years ago at the University of London  
under D. Conolly and the Clinical  
instruction of D. Watson at the Middlesex  
Hospital I was taught that all  
inflammatory complications were to be  
met by bleeding and mercury. This was  
in fact the mode of treating the early stages  
of the disease then and for many years  
afterwards. prevalent in England.

D. Conolly who had I believe  
seen a great deal of Fever both in the

city and in London was however very cautious in the principles he laid down upon this subject. The theories of Cullen, Keen, Han and Armstrong were then rather losing favour with practitioners and I think indeed it appears to us in these days that the treatment founded on these doctrines should ever have met with favour at all.

I find in my notes of Dr Cullen's Lectures in the autumn of 1830 the following remarks

"I consider inflammation always a secondary occurrence in Fever; it is not so active as when it is idiopathic.

I think the doctrine of bleeding in Fever was carried to a very unnecessary length and fatal extent about 10 years ago.

"The most careful observations I have made have convinced me that caution is requisite in pursuing either the standard or the bleeding method of treatment. I do not think that the effects of bleeding are proportional to the quantity taken as said by Cullen: some require more bleeding than others. In some epidemics

Bleeding is done better than in others  
although it is often worse than useless  
+ + "Inflammation of the brain is one  
of the most serious complications of fever  
and therefore when we see symptoms  
of phrenitis we ought to bleed directly  
+ + "We should either stimulate  
or bleed without a cure. Unless there  
is inflammation we have no reason  
no feasible indication to bleed; when  
inflammation sets up it does not  
remain a question"

Such were the principles with  
which I commenced practice in 1832. I  
will relate the circumstances which  
induced me to change my views and  
to adopt ever afterwards a very different  
system of treatment.

I have related above that in  
the year 1834 I had the entire management  
of 54 cases ~~in one~~ of continued fever  
in one small parish in Suffolk

The symptoms of the disease were  
very severe. Inflammation of the brain  
was in many cases well and decided by

marked by furious delirium - intolerance of light. quick rapid and full pulse. great heat of skin - contraction of the pupil occurring generally during the first week and either followed or preceded by diarrhoea very difficult to control. It was impossible to have cases which I have strongly indicated an inflammatory type - and in all the first cases I met with I bled either from the arm or by leeches - cold to the head &c. But every case so treated died. Two other medical men were called in to two other separate cases and they both bled. One of the gentlemen was a graduate of the University of Edinburgh. Both these cases died

I of course immediately changed the treatment. I avoided blood letting and gave wine early. The change of treatment was most marked and decided though one or two died from the abdominal complication yet in the end 44 out of 54 were saved.

In 1839 continued fever broke out in the same parish with abdominal

And pulmonary emphysema. In every  
case there was either catarrh, bronchitis  
or pneumonia - but none of the marked  
Cerebral emphysema of the Epidemic of  
1834. I treated every case by the early  
and ministeration of wine irrespective  
of the inflammation in the chest or abdomen  
and I only lost one out of 21 cases  
and this was a young woman in whom  
there was dysphagia from relaxed bowels  
and no wine could be got into the stomach.

Since this time I have invariably  
treated Continued Fever upon one system  
and with a success which has often  
succeeded hardly ever disappointed my  
expectations. My plan is not simply upon  
the observance of three <sup>series</sup> rules.

First. I consider medicine of almost all  
kinds not only useless but often injurious.  
I hardly ever give anything else but the  
simple effervescent draught with an excess  
of magnesian carbonate of soda or a few grains  
of nitrate of potash. If purgatives are  
required I use the mildest - and I meet  
the diarrhoea with starch injections and

About an ounce of the Symp. of Poppin or  
26 to 30 drops of Laudanum - I have  
often found the first sufficient because I took  
care to have the genuine preparation - Cold  
Spraying is often grateful to the patient  
but it must never be forgotten that cold  
is a depressant in excep. - with this treatment  
all the simpler forms of fever will generally  
do quite well

Secondly. Dr. Alison conferred an immense  
benefit upon Medical Science when he  
taught the necessity of observing the modes  
of death. - For many years I have acted  
in the treatment of Fever almost solely  
upon the principle of meeting the tendency  
to death in this <sup>discharge</sup> way of Asthenia or shock  
and I have done this by the early ad-  
-ministration of stimulants. In some  
cases wine is the only remedy required  
from first to last. and I believe the  
amount is only to be regulated by the  
condition of the patient. In one of the  
worst cases I ever saw <sup>in</sup> a young girl  
of 19 - a bottle of wine was taken every  
day for a week and some days a

Considerable quantity of brandy was added  
The patient recovered and I am as certain  
as I can be of anything that she would have  
died had not the Stimulus been kept up  
Night and Day. Since 1839 I have  
never allowed any kind of Influences  
to interfere with the free administration  
of wine whenever I found the tendency  
to drift in Fever required its use. and I  
have never had reason to regret it  
3 days.

To carry out the principle of treatment  
injoined by the Medical Man - the wine  
the Stimulation - the Sponging - the  
Abstinence it is absolutely essential  
to have good Nursing. Another is a  
great part of the treatment not always to  
be obtained. When a mother - a wife  
or a sister is at hand we seldom find  
a want of that affection and devotion  
which visit every thing and often  
sacrifice life itself in ministering  
to the wants of the Stricken Victim  
of this terrible disease - They will act  
as Sentinels and carry out strictly every

Order of the Physician. But her efforts  
 meet with success where poverty  
 or misfortune has left the subject  
 of fever almost friendless. Even here  
 however few medical men ~~who~~ have  
 passed a career of 20 or 30 years  
 without calling to mind instances of  
 self-destruction what no human praise  
 can sufficiently over-rate. It will however  
 be admitted as a rule that there comes  
 too often exemplifying the truth that  
 good nursing or ~~in~~ its superintendence  
 yield to none of our remedial means  
 in value - in the treatment of Fevers.

A deeply interesting question may  
 now be briefly alluded to.

Has the type of disease as exemplified  
 in fever or inflammation changed  
 during the last 25 years?

Now in looking at this question  
 with the facts of the past before ones  
 mind it is difficult to answer this  
 question in the negative - equally  
 difficult to demonstrate the  
 affirmative.

Change of type is found in all systems and the reasons  
given — will as to your way in the different  
Cases

\* B. Watson . Principles & Practice of Physics

It is not easy to believe that the  
most eminent man in the Profession should  
have persisted for years in a practice  
which was fundamentally - physiologically  
and pathologically wrong.

Few men were a greater ornament  
of the Medical eye now passing away  
than Dr Armstrong. Deeply versed in  
the practical philosophy of Medicine  
a logical thinker - a most careful  
and industrious practitioner and as an  
author so careful to ~~not~~ exclude all  
which he could not demonstrate -  
and yet he died to an extent unknown  
since his time. We are told indeed  
that before his lamented death he  
expressed that he had died so freely and  
the same recorder<sup>\*</sup> after his death  
that he died a disseminator is to  
doctrine of contagion - which we all  
know now was a great mistake; and  
the natural conclusion follows if wrong  
on one - he was probably so on both points.  
Cutterbank, and Braconis  
were champions of two great doctrines

\* *Treatise on Inflammation.*

\* *Introductory in Cyclopaedia of Practical Medicine*  
*Articles. Continued From*

of Fever - which are totally discredited now and we may fairly believe their treatment was wrong also

But most Medical Men who saw this case 30. 20 or 15 years ago believe in the existence of a Sthenic type as compared with that which obtains now. There seems to be something like an oscillation in medical practice - why should it not indicate a change in the type of disease with the so great an error as it reflects upon common judgment and Medical Philosophy?

John Hunter<sup>+</sup> writes 50 years ago speaks strongly against the use of the lancet as practiced then and remarked "there is now much less necessity than formerly to have recourse to it. When Rasori came to Edinburgh to learn the doctrine of Brown - he became a convert to the asthenic doctrine of Fever. But when he returned to Italy his patients all died under the use of wine - which induced <sup>him</sup> to change his treatment and his doctrine together \*

Jydenham and Cullen were prob. advocates  
of bleeding but they both refer to types  
and seasons in which bleeding would  
not be done.

This difference in the type  
of disease has ~~in fact~~ been noticed in  
all times of the history of medicine.  
It is a fact indeed with which we are  
familiar in our reading and in our habits  
of thought. - but it is ~~not~~ not the  
same easy to demonstrate for all that.

Stouton for instance says that he  
believes there is a ~~type~~ change in the type  
of disease and he expresses a belief that  
this has been caused by the visitation  
of the Cholera in 1832. But this opinion  
was not held by the majority of men though  
enunciated by a man so eminent as  
Stouton. I saw a prob. case of Asiatic  
Cholera in Moscow in 1832 when it  
was marching towards England and I  
well remember how we traced its  
progress from East to West now missing  
the place now that - creeping along  
the course of rivers and hunting

\* When Asiatic Cholera was at its height  
in Warsaw in 1832 - it carried off 100 Jews  
between the commencement of their Sabbath  
and the Monday morning of the week. I need  
hardly say that the Polish Jews are too  
distant among the most dirty people in  
Europe.

the scenes of filth and dirt\*. It never  
 appeared at all for instance in the  
 case neighborhood of Hove which is  
 many parts of the East of England  
 and yet I can bear personal testimony  
 that Fever and Inflammation have  
 at all events been treated successfully  
 without depletion. Is it then looking  
 at the difference of type of Fever  
 in London, Edinburgh and Paris  
 we are naturally led to the question,  
 Does climate influence the type of disease  
 and if this as it must be answered in  
 the affirmative - then has the climate  
 of England and Scotland changed during  
 the last 25 years? As far as my  
 personal <sup>experience</sup> I am a believer in a  
 gradual warmer climatic change  
 in this country. The waters of our  
 youth perhaps from psychological  
 causes appear colder to our minds  
 eye as the winter of life approaches  
 but still the delusion if such it is  
 is shared by a great number of  
 observing ~~the~~ men.

There is one fact however which  
cannot be denied viz. that we bleed  
and mercurialized in inflammation  
whether idiopathic or connected  
with Fevers 30 years ago - and that  
we treat the same diseases  
now by stimulants and more  
successfully than we did then

It would be foreign to  
my present purpose to pursue  
this subject further, but I must  
add that since I have been in the  
City I have heard from the Clinical  
Chair of the University an explanation  
which appears to me entirely satisfactory  
and of what was before obscure and  
unintelligible.

According to this theory  
inflammation is itself a disease of  
debility; that it consists in an exudation  
of plastic living matter, which undergoes  
the process of calc development from  
the peculiar deposit to the pus corpuscle  
; that the pus corpuscle is itself at

x Dr Brunet's Clinical Lecture.

1  
The allotted period of its existence, subjected  
to the laws of cell life broken up and  
dissolved and cast out of the system  
by re-absorption into the blood and that  
the disturbance created in the system  
by these efforts of nature constitutes the  
phenomenon of inflammatory fever.\*

This doctrine explains much  
that was obscure before and in its  
application to the treatment of fever  
is supported by the modern theories of  
fever itself. For whether we believe  
with Liebig that fever is produced by  
a poison in the blood acting by  
concurrent affinity or whether we  
deduce from the experiments of Brown  
to guard the inference that such a  
blood poison acts by first paralyzing  
the sympathetic (a doctrine long since  
advocated in reference to Asiatic cholera)  
- whichever I say of these doctrines we  
believe - or whether we trust in writers  
we are still drawn by uncontrovertible  
facts to the conclusion that continued  
fever is essentially a disease of

debility and can only be treated  
successfully upon principles founded  
upon such a doctrine.

"Non enim tam auctoritatis in  
disputando, quam rationis momenta  
querenda sunt".

C. A. Bell

March 12. 1859.

136. James St

Edinburgh