

16 in the contraction of some, & Dilatation of others, at the same time, & it shortened much, the Indications of the Dogmatists; this was an easy Practice & was called by way of Eminence the *Method*.

This simplification has been pursued since, the Followers supposing that most Diseases are reduced to a few simple ones. Dogmatizing, thro' the whole immensity of Particulars into which men are naturally led, is on the one Hand unsafe, and, on the other, as few men can abstain from Reasoning all together & be true Emperies, it is better, with regard to the Bulk of men calculated as they are neither for the one nor the other Business, to give them such a Method, than to leave them to their own Opinions, w^{ch} will be ever precarious.

This arose in the Reign of Augustus, was in some degree changed by Theophrastus, under Nero & was the prevailing method when Galen appeared.

The Pneumatic Sect, Aretaeus Cappadox, tho' a Dogmatist has given more of the History of Diseases, & experienced Practice; The Eclectic, which Celsus seems to have been, was a Sect; & likewise another was the Epicrurastic, but we have so few accounts concerning them that I

can say nothing certain, tho' their Name seems to indicate that they were the same as the Eclectics. —

Lect. 5th Nov. 13th

We have now come to the fifth Period & shall give some account of the Revolutions produced by Galen who made a change much more considerable for its Effects than Importance. His Father Lygurge gave him an Education upon a general Plan, hence he, after having thro' all the schools of Philosophy, studied Medicine under many Masters; he traveled to improve his *Materia Medica*, & was also learned in Anatomy & therefore came to try his fortune in Rome. He here found every Art in the Physicians to raise themselves and discredit others, hence he was obliged to leave Rome. He had however there gained the Favour of some men of sense & Rank, by which means he was brought back in triumph by ^{the Emperors} M. Aurelius & L. Verus to Rome. He then gained the Emperess Faustina to his side & consequently the Lady Practices. He continued to love Study among his Business.

16 We can now perceive how he attained & supported
his Character; by disparaging his Adversaries
with Virulence, & praising him self, notwith-
out vanity; by this means he greatly contributed
to suppress ^{all} the other sects. The Empire ^{at} was
almost extinguished, but he declaimed against
the Ashes of Theophrastus & overset the Methodical
then prevailing. The great Reputation of Galen,
his high Rank & great Authority, & his employing
that Authority to suppress them besides he wrote
more than any had done before. He was as dys-
tomatic as any writer before tho' declaimed against
as pernicious. Since Galen & Hippocrates were com-
monly named. He did hurt by checking the lazy & re-
pressing the ingenious. Galen ^{also} lived at a time
when science was declining at Rome & over the
whole world, & the Inundation of the Northern Bar-
barians afterwards put a long & effectual check
to its Progress. No wonder then if Galens system
was not retained in that Dark Age. The Empire
was divided & his only remains in the East hence
the system of Galen prevailed; & Aribasius in
the 13th Century is as much Galenic as himself.

In the middle of the 13th Century the Tartars took = 11
ing Constantinople and the Empire of the East
In the Year 101 Mahomed & the Saracens
spread their power over great part of Asia & the
north of Africa; they burnt the library
of Alexandria. the most valuable in the World
It is said Mahomed had some Partiality for
Physic & wrote on it himself, but there is no
evidence or appearance of its ballast till a new
Race of Califs took possession of the Throne;
who sought for the Greek writings & caused them
to be translated. they fell upon Aristotle & the
Physic of Galen which was diffused over the Saracen
Empire. We are not to enter into Rhazes he
or speak of their Works, their times is from
the beginning of the 9th to the 12th Century
They improved Chirurgery & acted upon
Chemistry, but their aversion to dead Bodies
prevented their cultivating Anatomy. By
the Arabians Physic was restored to the Western
Parts of Europe passed over to Spain where
Schools were Established as also in the south of

18. France & Holland. Literature & Physic was
retard & spread over Europe from those very schools.
The first school of Physic was that of Salerno,
the Book intitled the Sch. Salernitana
gives their Doctrine, after that many others
till the end of the 10th Cent: it was then in com-
mon to them all to follow Galen who was not
read in the original & Hipp: little known.
The Lessons were given in Arabic. Hence Gale-
n's system continued as the only one till the
end of the 15th Cent: We shall mention the
Particulars that prepared for this Revolution; the
Roman Language began to be learned, & the Tak-
ing of Constantinople spread the knowledge of the
Greeks in the West. This & the spreading of know-
ledge was favoured by the Invention of Printing
which increased from the year 1460. By the
Marriage of Ferdinand & expulsion of the Moors
all Spain came to be united, & so in Transalps
some Events ^{happened} very favourable to exert Activity.
Col: ^{Columbus} discovered the West. & Vasco de Gama the
East. From the Beginning of the Study of the Greek

it increased & Galen & Hippocrates began to be read
more & more improved, some stepted for the
Arabians; The famous Controversies about Blood
letting agitated them in the beginning but
could not long exist.

Galen had scarce been established when an Attempt
was made to pull him down by Paracelsus.

In the 15th & 16th Cent: the Chemical Pharmacy
made some progress in the Hands of Alchemists
& Quacks. Hence the virtues of Antimony
were found out & recommended. Paracelsus was
loved by Chemists & spent his younger years
in quest of Chemical Remedies. He performed
remarkable Cures, & was hence made a Proff-
sor, boasted & made high Pretensions, & tho he may
seem a very odd Character, yet he threw a lustre
on all his faults by some Effectual Remedies
Lic: 6th Nov: 15th

The Regular Physicians condemned not only the
Chemists but also their Remedies, & they trust-
ing to their Medicines neglected the History
of Diseases. First Gaul & after him but in

20. ^{the illustrious} ~~Spil~~ ^{of} ~~Master~~ ^{the} ~~silver~~ ^{gave} a great shock
to that great writer. The Authority of Aristotle
in the 16th Cent: was opposed by Petricus
&c. but more effectually by Galileo & Lord Bacon
& these laid a Foundation to endure as long
as any system that is sound. Next De Cart
endeavour'd to establish the Epicurean Philosophy
but still the system of Galen limbled down the
Operations of the Chemists, & rendered the Galenists
vigorous, therefore it was necessary to explode
it all together, & hence in the Beginning of the
17th Cent: it was annihilated, & the ancient
Fabric of Medicine received its finishing stroke

Fabrick of Medium received its finishing stroke
We observe that Galileo & L. Bacon laid a founda-
tion, the effects of which were not very conse-
derable till towards the end of the 17th. Century.
Gassendi revived the Epicurean Philosophy.

In England Mr. Boyle & Doct. Whinsbe held
meetings for cultivating Natural Philosophy &
at last were changed into the Royal Society.
We may asport a Greater Knowledge has been

made within these 100 years than since from the
beginning of the world till that time.
Newton led in the Nat. Philosophy & Ra-
con in Chemistry. The Epicurean Philosophy
of Gassendi & system of De Cart were favorable
first to the Chemists & Cartesian next. Since
the system of Regius Sylvius de la Boe & Charrault,
& the Discovery of the circulation of the Blood, par-
ticularly, gave the Hydraulic, & the whole system
of the Animal Economy. the matters were hardly
yet prepared for the Study of the Hydraulic. Boyle
gave it a specious Appearance, & after prevailing
in Italy it was brought into England by Dr.
Wharton, spread into France & Germany.

The Mechanical Physicians were always Tied to Friends to Observation & Experience. It can hardly be supposed that their Speculations hindered their Diligence. Dr. Sydenham, who was bred in the schools of England, devoted them almost entirely, & gave a work so far as it goes the masterpiece of all that went before, this Country-men Will &c neglected his Doctrines or opposed them. The Mechanical Theory is not sufficient towards a Compleat system; the Facts, when they were

22 introduced more than five. The Mechanical Doctors, wanted to explode Chemistry & spoil their own Knowledge, as without it, there are several parts of the system of the Human Body not to be explained. Boerhaave combined Cartesian & Galenicists & also admitted Nature the only Remain of the Galenic. There was still a necessary Part of our system that he had overlooked, viz: the Doctrine of the Nerves. This also in some Degree supplied, Vanhelmont ascribed the various Commotions in the system to an Archæus, & the judicious Wepfer admitted such a sort of Regent in the Body. That -

First it gives a particular explanation of the Autocrasia in the Power of Nature & in the Cure of Diseases. The Stalicians have been remarkably against Anatomy. they have had always a false Practice, & are noted Enemies of the Body, & other Remedies that might hinder the Operations of Nature. you might then expect that they being in this Error would have stumbled on the Nervous system. Willis studied the Brain

& Nerves & made a Pathology accordingly & 20 his Doctrine was soon after cultivated. J. Boerhaave entered into the same views, & said that the Nerves laid the Foundation of many Diseases. But Hoffman came but late into it. It has now got over all Europe from Boerhaave's School, & Van Helmont, Boerhaave, Gaubius & Haller have allotted the Nerves a great share. - Therefore our system is to be considered as a Chemical History, Hydraulic Machine, & animated system.

Sec: 8th Nov: 17th

A View of the Theories of different Ages might have been required, but a History of Opinions is perhaps a History of the Follies of Mankind. I shall only mention the few writers on this subject. first, before the Times of the Romans no work remains but that imputed to Hippocrates. Many of which are of a ~~much~~ later Date than him, & are of little use as we can hardly fix the date of any of them. Hardly any one of the Works of the Dogmatists remain, but those of Aristotle, down to Galen

24 There are likewise no works of the Methodists
but that of Belius Aurelianus, which con-
tains much more of the Practice of the Anti-
cents than any. You will have it much
better from Prosper Alpinus, who in the
end of the 16th Cent: endeavourd to revive that
Doctrine. next if we would take Galens own
Personal system it is to be had nowhere better
his own works. As a great Part of our modern
system is deriv'd from him, tho' the system is
quite Rask'd away, you will have a good account
of it in the writings of Serapion. Many a
Theophrastus, Mercurialis, & Gesalpinius are dead.
I can only recommend Gesalpinius & Lazarus who
translates from him & Ferriell.
I can meet with no one of the ^{Practical} systematics that
I can read; you are to take their opinions
with regard to the Causes in the Encycloped: of
Doreas who has given the Opinions of Paracelsus
& Van Helmont. After that are various systems,
the first of these is the Cartesian; you will
find these most fully in Blaneard &c. Chemist

and Cartesian; were the systems of Willis, Dele 25
Boer, & Elmuller; they then are to be conside-
red. In the Present Cent: the Stahlian, Hoffman
& Ruysch: systems are the only ones of Note.
Stahl has had many Disciples who have each of
them given a system. We commonly take the
system from Junterus, who is also more full
in the Practice, but the system is better from
Stahl himself in his Theoria Medica vera
which is full of excellent but abstruse Mate-
ter. It has been proposed that young People should
Study Mathematics or to learn to
think, I imagine Dr. Stahl would answer
this Purpose. Dr. Boer: has also had Disciples
but his Doctrine is to be had from his own
writings. Boerhaave is in every bodys hands
fully evolved in Van Swictens commentaries.
One or two Disciples to be noticed, as DeGorter
who has hardly made any Addition to his Master
has inter'd into all all the subtilities w^{ch} are
to be avoided even in the best system. Dr. Stoy-
burgh has pushed the same system to the Heights

26 of Mathematics. The Italians are keen and
violent in disputing against others; they have
been usefull in collecting facts which are often
influenced by this Attachment to system.

Boerhaave has had a much greater share in
forming a sect & school than Hofman, whose
now beginning to be deserted.

Galen's system was first cultivated in Italy, con-
tinued to be the chief school of Physic, till
the middle of the last Cent: when they admitted
first Mechanics as Baglivi's system. The Ita-
lians have continued to be very mechanical, but
no body remarkable, & Boerhaave much followed
with us

last. The French excelled the stu-
dy of Hipp: but had not the Abilities to get quit
of Galen. Then barbarism prevail'd mix'd with
Chemistry; in the present Age they begin to
be more purely Mechanical. For 20 years
past they have been zealously attached to Dr. Boer-
haave. One Man has changed or wanted to change
his system, Cuvier, who has endeavour'd to com-
bine the mechanical & Italian Doctrines, but

he is not like to have many followers. and yet
in spite of their attachment to Ruyssch they are
combining the Nervous system. In Germany
in the Beginning of this Century the Chemi-
cal system forc'd itself in. The Mechanical
has been introduced, but not made considerable, by
Hister & M. Lurz. Lemprie is one of the most
considerable schools. He in his Pathology introduc'd
spasm & Debility for sensibility & Irritability.
Boerhaave is quite follow'd at Berlin & in Britain
there is a strong Bias to Empiricism. Sir Thomas
M. in James's time introduced Chemistry. Harvey
& Whiston were of no system, they have the Galenic
& Chemical mix'd with many Interpositions of
their own. The Members of the Royal Society were
Chemical but not systematical. Boerhaave was by
Boerhaave call'd the Israelit Doctor, so Sir John
Floyer &c. may bear the same Appellation. Mead,
Keil & Pitcairn cultivated the Mechanical. Win-
lingham, Huxham & Lobe are Boerhaavians.
Pringle, Haller, Senac, & Morgagni have no sys-
tem at all —

Lic:

Lect. 8th. Nov. 18th.

Which is the best Plan of prosecuting the Study of Medicine, I will not dictate to you; therefore shall lay down Reasons, all of which are not yet be known; a full discussion of them must arise from the Nature, Extent & Powers of Medicine: A Plan now may be necessary, that could not have been 1000 years ago: the Plan is also varied by the auxiliary Arts as they are more or less brought into use. I must limit the laying down my Reasons to you as yet; but as all of you are, I hope, acquainted with Anatomy & Natural Philosophy in both its Branches Mechanical & Chemical, I shall proceed to offer you such Reasons, for giving the Preference to this or that Plan, as you can understand. I shall propose two Questions then; first, what, & how much is to be learnt? second, how those things proper & necessary may be acquired? The first Question arises from the Dispute between Dogmatists & Empiricks, & this Dispute has from that time subsisted & is not yet removed, I am afraid very few enter into it properly, or sufficiently seriously.

Every Apothecary will tell you nothing can be done without knowing the Reason; another, more easy, will say Reasoning is nonsense. Celsus has given a most elegant Discussion of the subject, & Monsieur Declot is the best I know; at Padua pro Scto Empirico, has laboured the Point, in the position to the Dogmatists. Bonnius of Leipzig is the only one that has said any thing De Experimentia fallaci. I hope the Discussion I am going to give may be a means of directing your Steps so that you may guard yourselves on both Sides; therefore the Arguments in favour of a Dogmatic or Empiric Plan are to be opposed to each other. — The Empiric Plan consisted of Observation, History & Analogy, & hence proposed a simple Imitation in Practice; & when experience failed them they then had Recourse to Analogy, but that very comparison of unknown Phenomena to similar known ones is without Doubt Reasoning; & therefore it is unfair to call the Empirics Irrationales, as if the Dogmatists only employ'd human Reason; Further, then enquired how Medicines operated in the curing of Diseases. — On the other Hand the

30 Did not Dogmatists proceed by external Appearances, but enquired what were the internal Causes or Conditions either in change of the Solids, or fluids that produced them. From knowing the difference between the state of the Body in Health & Disease they formed their Indications of Cure. But you will easily see this resolves into the knowledge of the state of the Body in Health & Disease which is Physiology; Some Physicians have called Physiology the proper Theory of Medicine & it may very properly be so called still. —

Objections to the Dogmatic Plan —

The Arguments against it have generally been drawn from the Imperfections of Physiology. Such Arguments are not very conclusive, but the Objections laid against the Foundation are much more difficult to answer; The Foundations are said to be unsound, partly from the present state of our knowledge, partly from their own Nature being, as they say, such. The Adversaries have taken advantage of every thing that has been urged, both against Science in general & Physics in particular. But Arguments that equally affect every human species

lation are not to be regarded, & we shall do well if 31 we can put our Science upon the same footing as the rest; I only deliver to you the Objections against Theory itself.

— View of the Animal System —

I divided my subject into three Parts. The first is as of a mixt paper of particular qualities either in themselves, or with regard to other Matter, under this Head is comprehended all that touches upon the Fluids of Animals, the Change of the Food into Blood; the Different Secretions, & lastly the supporting the waste or the growth of the Body in consequence of change from the same sources; Now as all this Depends on Chemistry I shall call it the Chemical system. — The second view is that, as all the fluids are contained in certain Vessels & exist chiefly in motion, we consider these Motions, & the various impelling Causes of the Motions, the structure that consists of Vessels transmitting fluids in this manner is called organic & is in common with Vegetables. It comprehends the State the Arteries, the secretory & excretory vessels & the Alimentary Canal; which have all Fluids

32 moving thro' them, hence this will be call'd the
Hydraulic System. — The third view of our
Work, is that of an Animated System, or which
is capable of thinking, & from this a variety of
Actions are produced. The Organs of it are endow'd
with sense; first the Brain, & its Distributions
thro' the Muscles & muscular Parts. This
then to be call'd the Nervous System. —

Linnaeus's manner of distinguishing the three
kingdoms, is, Lapidus crescent, Vegetabilia
crescent & vivunt, Animalia crescent, vivunt
& sentient. —

A considerable Imperfection does at present, & will
for a long time attend our Dogmatic System; I am
to act as an Empyre that I may give them all
the full weight of their Arguments, & will after
perhaps turn tail & espouse the side of the Dog-
matists, that I may act as an Impartial Moder-
ator between them. Chemistry gives many Ob-
servations the most usefull in an Empirical Way,
but it is remarkably deficient in its Philosophical
Applications to Medicine; to Illustrate this, we
have found the whole Powers of Nature are Attraction

tion & repulsion or Attraction & Fire; I shall 33
willingly all ow that the Application goes far-
ther, as to point out upon what Attraction de-
pends (upon elective Attraction) but we don't
know what that is; Philosophers are every day dis-
puting about the Theory; they have not determin'd
whether it is not a particular Elementary Mat-
ter or owing to certain ~~Agents~~. But when we find
Fire to be the great & prime Agent in Nature
& know not upon what it depends, you will
readily see how uncertain all our Theory with respect
to it must be

Lect. 9th. Nov^r. 19th. —

The objections to the Dogmatic System lie against
it as Physiology & we are not to object to men, but
the System itself. Chemistry, as resolv'd into Attraction
& fire is in that state that what ever we pretend to
know of it, but the Doctrine of the Animal Mist
is still a more difficult part of Chemistry.

We have found saline Matters in the Humours that
the Intere Mist is still unknown; perhaps that
Process wth we name Fermentation is peculiar to