A new and easy method of giving mercury, to those affected with the venereal disease : To which is annexed a new theory of the action of this metal on the salivary glands / Translated from the Latin of Joseph James Plenck.

Contributors

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NEW AND EASY METHOD of GIVING

A

MERCURY,

VENEREAL DISEASE.

TO WHICH IS ANNEXED

A New THEORY of the ACTION of this METAL on the SALIVARY GLANDS.

JOSEPH JAMES PLENCK, Professor of Surgery and Midwifery, at VIENNA.

THE THIRD EDITION.

TO WHICH IS PREFIXED,

A TABLE, exhibiting, at one View, all the PRE-PARATIONS of MERCURY, reduced under proper Heads.

WITH

- An APPENDIX of Remarks on Mr. PLENCK; together with fome Experiments and Obfervations which afcertain with more Accuracy a fleady and uniform Method of giving his Medicine; and a fhort and eafy Method of preparing the MERCURIUS CALCINATUS.
- BY WILLIAM SAUNDERS, M.D. PHYSICIAN to GUY'S HOSPITAL.

Principium dulce est, sed finis amoris amarus, Læta venire Venus, trissi abire solet. OVID.

LONDON:

Printed for E. and C. DILLY, in the Poultry; and Sold by KINCAID and CREECH, Edinburgh. MDCCLXXII. Digitized by the Internet Archive in 2019 with funding from Wellcome Library

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ENEREAL.DISEASE.

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all to sugar with

ASTRACTOR BORNER

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CIAN OF BUTTO HATS

isted for E. and C. Distay, in the Paulicy: and Sold by Kintente and Casters. Edinburgh. # #1%# #%# #1# #%%# #%%# #%%

T A Besteine Le E,

Filula Mercuriales E. 1744.

c. with Balfam.

Exhibiting, at One View,

All the Preparations of MERCURY, reduced under proper Heads, and taken from Dr. SAUNDERS'S Syllabus of Chemistry, printed for the Use of fuch Pupils as attend his LECTURES on that Subject in LONDON.

QUICKSILVER.

g. with Abforbents.

A. Crude.

diiw .i

Hydrargyrus purificatus E. L. B. in Vapour.

Mercurius ad fuffumigia C. Triturated.

A 2

a. alone.

a. alone.

Tragea Keyferi

b. with Honey.

Pilulæ Mercuriales E. 1744.

[iv

c. with Balfam.

Pilulæ Mercuriales L.

Unguentum cæruleum fortius et mitius L. E. Emplastrum commune cum Mercurio L.

Mercuriale E. Ceratum Mercuriale L.

d. with Refin. Pilulæ Mercuriales E.

Æthiopicæ E.

A.

inch Prubits as c. with Gum. Solutio Mercurialis Plenck,

f. with Suet.

Unguentum Mercuriale E.

g. with Abforbents.

Mercurius alcalifatus

h. with Sugar.

andle .a

Mercurius ad fuffur Mercurius faccharatus E.

i. with

018 81026

A. Crude.

terminal and

B. in Vapour.

i. with Sulphur. Æthiops mineralis L. E. antimonialis Ph. Paup. E. D. Sublimed with Sulphur. Cinnabaris factitia L. -antimonii E. Calcined. pileb tog manaral enulo?

a. alone.

Mercurius calcinatus L. -præcipitatus per se

b. with Gold.

Mercurius præcipitatus folaris Aftruc.

d, by Vegetable Acid.

F. Rendered faline.

a. by Vitriolic Acid. Mercurius emeticus flavus L. Mercurius præcipitatus flavus E. Turpethum minerale E.

b. by Nitrous Acid. Solutio Mercurii E ... Calx Mercurii E ..

o.dddd

Pulvis Principis-Lewis A 3

[vi]

c. by Muriatic Acid.

Mercurius sublimatus corrosivus L. E. —— præcipitatus albus Boerh. Aqua aluminosa E.

——— phagedænica E. Mercurius violaceus diaphoreticus Aftruc. Flores ammoniaco Mercuriales . Solutio Mercurii per deliquium Aftruc.

d. by Vegetable Acid. Mercurius tartarifatus Pilulæ Keiferi

G. Saline Preparations corrected,

a. Rendered mild. serg subsers M

aa, by abstracting Acid.

aaa. by Calcination.

Mercurius corrofivus ruber L.

bbb. by Attraction. aaaa. of Water. Pulvis Principis Lewis

bbbb. of

bbbb. of Alchohol. Mercurius corallinus L. Panacæa Mercurii E. 1744 cccc. of Water and Alcohol. Arcanum corallinum Lewis Panacæa Mercurii rubra Lewis dddd. of Camphire.

Pilulæ e turpetho min. Ph. Paup. E. ecc. by Attraction and Precipitation. aaaa. of fixed Alkali.

Mercurius præcipitatus fuscus E. 1744. bbbb. of Volatile Alkali.

Mercurius præcipitatus albus E. cccc. of fixed and Vol. Alkali. Mercurius præcipitatus albus L. Unguentum e Mercurio præcipitato L. dddd. of Volatile Alkali and Copper. Mercurius præcipitatus viridis bb. by Addition of Mercury. Mercurius fublimatus dulcis L. E.

A 4

calomelas.

[vii]

calomelas Aquila Alba

viii]

bbbb. of Alchohol.

cc. by Addition of Unguent. Unguentum citrinum E.

b. rendered acrid or kept fo.

- aa. by rediffolving præcipitate. Mercurius præcipitatus folutus
- bb. by Addition of Acid. Solutio fublimati cum fpir. falis
- cc. by fuspending with an ammoniacal Salt.

Mercurius corrofivus nitrofus Ward's white Drop. Mercurius corrofivus muriaticus.

dddd. of Volmile Allesii and Copper,

abrie analighter of an inder

Mercurius fablimatus daleis L. E.

AA

bb. by Addition of Mercury.

Ungenenien & Mercucio predigitato L.

aulanticitys.

THE

AUTHOR'S PREFACE.

fome time luiponded in water,

noce, both to fall down to-

and when a H T

I wonderful to many, wonderful to many, that quickfilver, a metal next to gold in fpecific gravity, can admit of an entire union with a vegetable gum, fo as not to be barely mixed with it, but to be fo thoroughly extinguifhed by it, and fo firmly attached to it, as for both to remain together for fome. fome time fuspended in water, and when a fediment takes place, both to fall down together, and never to feparate.

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THAT this is really the cafe, appears from a very fimple experiment, and the more fimple an experiment is, it becomes the more obvious, and the lefs fubject to fallacy.

EXPERIMENTS of whatever kind are of themfelves ufeful: for although they may bring no other advantage, yet they free the mind from prejudices; they alucidate what would otherwife be obfcure; they diftinguish doubt from certainty; certainty; they reftrain the licentioufnefs of fiction; they give entertainment from the variety of phœnomena they exhibit; they excite the mind to farther tryals; and laft of all, they extend the limits of fcience.

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But much more useful are fuch experiments, which, befides amufing the learned, redound in a public manner to the good of our fellow-citizens. Experiments either medical, chirurgical, or æconomical, have chiefly this effect.

Our experiments here are of fuch a nature, which although they may of themfelves:

felves be curious, yet that alone would never have, impelled me to write, if I had not found from a variety of tryals, that their use was very extenfive. While indeed I faw, from repeated observations, that a very mild and innocent remedy could be prepared from Mercury, fubdued by vegetable gum; when, befides, I perceived that it was very useful to those affected with the venereal difeafe, and therefore that it was a medicine of fo great efficacy in those cases; I thought I should be wanting in my duty, as a member felves

xii 7

ber to fociety, if I delayed the publication of them any longer.

[xiii]

As I am by no means rich, I might have confulted my own advantage more, 1 might have made use of a fordid prudence, by keeping it as a fecret, and then perhaps it would have been more profitable. I might have followed the well-known example of KEISER, who has become rich by concealing the composition of his pills, though less efficacious; or of HE-RENSWAND, LANGHANS, HILL, and other fuch illustrious quacks, and thus have prialhamed vately vately laughed in my own fleeve. But I always detefted fuch unworthy practices, and I will continue to defpife them, as long as I live; I know well that we are religiously bound to affift one another as far as lays in our power*.

NEITHER the heathens, or barbarians, are fo defitute of humanity as to forget the obligation of doing good, to which by the law of nature we are bound. How much

* 1 Pet. chap. iv. ver. 8, 10. And above all things have fervent charity among yourfelves: for charity fhall cover the multitude of fins. As every man hath received the gift, even fo minister the fame one to another, as good stewards of the manifold grace of GoD.

Vately

ashamed

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ashamed would the fordid venders of these ARCANA be, if they were exposed to the public view of the old Affyrians or Babylonians, among whom there was a law, that no perfon should pass by the fick without communicating what remedies he was acquainted with for their relief, and that without either fee or reward.

[xv]

THE conftitution of phyfic at Vienna is in this refpect well regulated, and this we owe to the wife councils of the noble L. B. VAN SWIETEN, who employs his whole attention, and beftows great labour in enlarging

larging the limits of medicine, especially of what relates to the practice: his attention wholly confifts in this, that the most efficacious and certain remedies may be daily found out for the benefit and advantage of the unhappy fick, and likewife in totally banishing quacks, mountebanks, and the avaritious venders of arcana; while, in the mean time at Paris, London, and in other large cities, that race of men are with impunity tolerated, to the common prejudice of mankind, and the reproach of physic : and avolg ONB

[xvi]

[xvii]

ONE wife refolution of this eminent man, is, that if any remedy be fufficiently recommended for its great utility, it is immediately publifhed for the general good; for certainly the private advantage of one or two perfons is not to be preferred to the common good of our fellow-citizens.

THAT this is the fixed and stated opinion of this great man will appear evidently from what he has written formerly on the subject of the cancer *, and

* Sect. 509. Comment. T. I. p. 901. Forte tamen et inde aliqua spes effulget, non penitus impossibilem esse cancri separationem a partibus sanis; licet Hactenus ignoretur, qua methodo, quibusve remediis, hoc fieri possit. B Quam

[xviii]

and lately on other fubjects +.

THE conduct of the celebrated STOERCK ought to be imprefied on our minds, as an example and incitement to all, who being fortunate in his difcoveries, has early applied them for the benefit of

Quam felix ille qui hoc inveniret? quanta pœna dignus, qui inventum celaret, turpis lucri causa?

+ T. IV. § 1371. p. 729. Sed quisque novit, arcanorum venditoribus non semper habendam esse fidem. Ingenuum decet, ut generis humani utilitatem lucro magis æstimet. Sed auri sacra sames sæpe aliud suadet; nunquam me pænituit, candide communicasse omnibus si quid in arte utile novissem, nec pænitebit, certus sum illo tempore,

dum numina nobis
Mors inftans majora facit.

fociety,

fociety, putting little value upon them, if they were not made publickly useful.

[xix]

WHILE I revolved all these confiderations in my own mind, while I had fo many glorious examples before me, while befides I thought that it was the business of an honest and ingenuous man, if possible, to beftow his labours on what is of general utility, I found myself under the necessity to communicate to the public this new and eafy method of giving Mercury to venereal patients in the manner I learned from experience.

WANA B2

Nor

Nor do I this from any prospect of gain; the farther fuccess of this method, and the great relief it may give to my neighbours, will afford me sufficient reward.

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Nor do I fear the cenfures of the envious, fince many eminent authors have met with fuch treatment for their good offices to mankind, though they refolutely withftood the flanders of envy,

Quæ videt ingratos, intabescitque videndo Successus hominum, carpitque et carpitur una Suppliciumque suum est.

Ovid. Metam. Lib. II.

A NEW



NEW and EASY METHOD

A

OF

Giving MERCURY to those labouring under the VE-NEREAL DISEASE.

CHAP. I.

The Origin of this Method.

**** OME months ago, when I S had occasion to write a book, **** in which I undertook to defend the efficacy of the Corrosive Sublimate in the cure of the Vene-B 3 real

real Disease, that I might enquire into the caufe by which Mercury more especially acted on the falivary glands, I conversed upon the subject with PHILIPPUS AMBROSIUS MAR-HERR, a very eminent phyfician, and my particular friend, who with his usual candour, told me, that as yet no just account of that phænomenon was given; - that many hypothefes had been thought of by a variety of authors, but that none of them was fufficiently accurate; -- that the very plausible opinion of Dr. PITCAIRN, who feemed to many to have hit upon the thing, in attributing it to the specific gravity of the Mercury, was fo fully refuted by (*) § VAN SWIE-TEN, that nothing more remained to be offered for its defence; in the (*) § 135. C. T. I. P. 207.

Legy

mean

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mean time it feemed probable to him, that Mercury had a greater affinity with the faliva and mucus, than with any of the other fluids of our body, and that therefore the mouth and throat were chiefly affected by it. ---- This difcerning man likewife added, that he had feen a small quantity of Mercury by trituration difappear in the faliva, but that it was still probable, there was a greater affinity between Mercury and mucus; for Mercury not only runs to the falivary glands, but likewife to the mucous ones, and befides, that the more viscid mucus was much fitter for retaining it than the thinner fluid the faliva; and observed, that an experiment might be made to determine this matter with certainty, which has hitherto been neglected on account of its fim-B 4 plicity: binos

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plicity: a very frequent caufe, why many things remain concealed which might otherwife be eafily known.

This opinion of my very judicious friend fo pleafed me, that I determined immediately to put it to the teft of chemical experiments.

Therefore the next day, I made an experiment, and observed that a fmall quantity of Mercury was made to difappear in the faliva; that however, the mucus received a larger quantity; and that it united with it more expeditioufly. And thereby I found that the opinion of my learned friend concerning the affinity of Mercury with these fluids was entirely confirmed by experiment, and immediately made him acquainted with the event. This being done, we unanimoufly agreed, that Mercury fhould

fhould be tried in the fame manner with other mucilaginous bodies, both animal and vegetable, that it might appear whether there are not other gelatinous and vifcid fubftances with which Mercury can be likewife united; and if there are any fuch, whether they differ in their powers more or lefs from that of faliva and animal mucus. — For this purpofe the following experiments were made.

EXPERIMENT I. Mercury with Animal Mucus.

I mixed one part of very pure Mercury with two parts of mucus discharged from the throat, by expectoration; I triturated them together in a marble mortar, and B 5 exactly

exactly marked the time which was neceffary for the compleat extinction of it; and I perceived that in the fpace of feven minutes the whole of the Mercury was converted into a greyish viscid substance: after the addition of water very little remained fuspended, but it soon precipitated to the bottom; the Mercury, however, did not separate, but still remained entangled and united with the mucus at the bottom of the veffel. There was one fcruple of Mercury and two of mucus. The faliva extinguished a much less proportion of Mercury; and its extinguishing any depended perhaps on its having a quantity of mucus united with it, it being impossible to obtain faliva perfectly free from it.

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EXPERIMENT II. Mercury with the Yolk of an Egg.

I triturated the whole of the yolk of an egg with one drachm of Mercury in a marble mortar for an hour: At firft fight the Mercury feemed entirely to difappear; but upon adding a little water, it recovered its form, and the vifcidity of the yolk being diluted, it fell down to the bottom in its metallic running ftate, and by degrees went into large globules entirely feparate from other matter.

EXPERIMENT III.

Mercury with the White of an Egg.

The white of an Egg fhews ftill lefs power on Mercury: for one B6 drachm drachm of Mercury being triturated with the white of an egg for almost half an hour, was by no means extinguished by it, and upon pouring water to it, the Mercury run into large globules, and subfided to the bottom.

EXPERIMENT IV.

Mercury with the Blood and its Serum.

I mixed a quantity of quickfilver with the ferum of blood, which, to obviate mistake, I took from myself, and I triturated them together, as in the former experiment. The extinction was very inconfiderable, and the union much less firm than that with mucus, for upon pouring water, the quickfilver immediately subfided in the form of small globules.

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I tried the fame experiment with the red part of the blood, and almost the fame phænomenon occurred, only that the ferum feemed to have more effect than the red part upon the Mercury.

EXPERIMENT V.

Mercury with fresh Animal Bile.

I triturated one drachm of Mercury with two drachms of the recent bile of the pike fifh, for half an hour: it was with great difficulty that the fmalleft portion of it could be extinguished, and upon the affusion of water, the Mercury soon subsided to the bottom, and run into larger globules.

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EXPERIMENT VI.

I tried the farme experiment with

Mercury with Isinglas.

To two drachms of Ifinglafs reduced to the confiftence of glue, I added one drachm of Mercury, and triturated them together with great labour for more than half an hour : but all was in vain ; the fmalleft quantity of Mercury did not unite with it.

It is well known that quickfilver can be very readily extinguished by animal fat; but so perfect a division, and so thorough an extinction cannot be thereby obtained as by mucus; for the fat being rendered more liquid by heat, nay even spontaneously, the Mercury in Neapolitan ointment will subside to the bottom. COROL-

COROLLARY.

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vegetable macus of gumary lubilances

From these experiments it evidently appears that Mercury has a much greater affinity with mucus, than with other animal fluids; and hence it seems probable, that if other animal fluids unite with it, it is owing to the quantity of mucus which they contain.

EXPERIMENT VII. Mercury with the Mucilage of Gunz Arabic.

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When therefore, from the former experiments, I learned that there are no animal fluids but mucus that is proper for extinguishing Mercury, curiofity excited me to try whether 7 vegetable

vegetable mucus or gummy substances might not do the fame; therefore I triturated one drachm of quickfilver, with two drachms of gum arabic for a quarter of an hour in a stone mortar, adding by degrees a fmall portion of water, fo as to give it the confistence of a mucilage. To my great furprize the Mercury fuddenly difappeared, and the whole being carefully rubbed together, became a viscid grey mucus, which being diluted and agitated with a pound of water, the whole became of a grey colour, and one part remained fufpended in it, while another part, upon allowing the veffel to ftand at rest for some minutes, was slowly deposited to the bottom in the form of a grey fediment, in which the Mercury was fo thoroughly extinguished

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guished by the viscid mucus, that although a large quantity of water was added, they remained united together, and the Mercury did not run into globules as usual. By a gentle agitation of the veffel, the whole of this mucus was again readily united with the water, and on the furface of the water, fomewhat elevated, there was a white froth, which, together with the water, held the Mercury suspended in a very subtile attenuated state; for, upon immerfing a gold ring in it, it was perfectly whiten'd and filveriz'd.

I repeated the fame experiment with a fmaller quantity. A fcruple of gum arabic was reduced to mucilage, and mixed with ten grains of. Mercury, that it might be an experiment fimilar to the first,—In the space of fix fix minutes the Mercury was entirely extinguished, while feven minutes were neceffary in uniting it with animal mucilage; therefore Mercury

admits of a much more ready union with the gum arabic.

The gummy mercurial fediment remained for a long time, even for many weeks, without undergoing any change, unless that in a length of time it became fomewhat grumous, more black, and was lefs equally mifcible with the fluid on its furface; it however did not deposit the whole of the Mercury, until the liquor above being previoufly separated by a filtration, was exficcated by the heat of a furnace; then indeed the power of the mucilage was destroyed, and the Mercury separated, and was now 2 m

now to be observed in the form of the globules of quickfilver.

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EXPERIMENT VIII.

Mercury, by the Affistance of Gum Arabic, intimately united with Animal Fluids.

From the former experiments (2, 3, 4, 5, 6,) it appears that the blood and its ferum, the yolk and the white of an egg, the bile, and ifinglafs, are infufficient for extinguishing any confiderable quantity of Mercury; but if any quantity of the mucilage of gum arabic be mixed with thefe, the Mercury is immediately equably united with them, just in the fame manner as when animal mucus itfelf is added: hence quickfilver, by means of this fubstance, is even rendered miscible

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miscible with others, with which it has either no affinity, or a very small one.

EXPERIMENT IX.

Mercury with Gum Tragacanth.

The power of gum tragacanth is by no means the fame: For this, reduced to a mucilage, upon the addition of water, in no manner anfwered my expectation: for although I ufed every endeavour, and continued a trituration for half an hour, the fmalleft quantity of Mercury could not be extinguifhed, and upon pouring water, and thereby diluting the mucilage, it retained the form of quickfilver, with its metallic fplendor, and fell down to the bottom of the veffel.

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EXPERIMENT X. Mercury with the Mucilage of the Seed of Quinces.

The fame effect nearly followed from the mucilage extracted from the feed of the quince, three drachms of which being triturated for half an hour with one drachm of Mercury, there was no mark of any combination.

EXPERIMENT XI.

Mercury with the Farina of the Root of Marshmallows, and Starch.

With a very fine farina of marfhmallows, I mixed a fmall quantity of water, that it might form a kind of glue: a fmall quantity of Mercury was added, and triturated for a conconfiderable time; but from this nc extinction of the Mercury was obfervable. When Mercury, however, was triturated with a quantity of farch, it was fomewhat extinguished; ftarch containing an animal gluten in it *.

EXPERIMENT XII. Mercury with Manna of Calabria.

I tried pure manna in the fame manner, becaufe it feems to contain a quantity of mucilage, and it is a common opinion that it enters into the composition of Keifer's pills. I carefully triturated two parts of it with one of Mercury for a quarter of an hour, but I could fearcely ex-* Cl. Professor Crantz, Mat. Med. T. 1. p. 9. & illustr. L. B. Van Swieten, C. T. iv. p. 107.

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tinguish

tinguish any; however, upon repeating this experiment with common manna, I saw a large quantity of Mercury sufficiently extinguished by it.

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EXPERIMENT XIII. Mercury with Crude and Clarified. Honey.

To two drachms of crude white thick honey I added one drachm of quickfilver, and triturated them both together for a quarter of an hour. The Mercury was pretty well extinguifhed, and, contrary to my expectations, after adding water to it, remained extinguifhed, and depofited a grey fediment at the bottom of the veffel, but lefs eafily mifcible with water than that which arofe from the union of gum arabic and Mercury. Mercury. I repeated the fame experiment with clarified honey, but none of the Mercury was extinguifhed; for upon the effusion of water the whole appeared at the bottom in large fplendid globules.

Crude honey contains fome mucilage in it; hence it is that it is fo fit for extinguishing Mercury: But that mucilage is lost by boiling and clarifying; for which reason it has no fuch power on Mercury.

EXPERIMENT XIV.

Mercury with fimple Syrup.

Very pure white fugar being formed into a fimple fyrup, with half its quantity of water, and tho' long triturated with Mercury, did not extinguish a particle of it.

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But

But this effect happened, contrary to expectation, that although neither fugar nor fyrup fhewed any effect in extinguishing Mercury, yet they even increased the power of gum arabic in this refpect; fo that, by the affistance of fugar or fyrup, this mucilage united more firmly and tenacioufly with Mercury.

It is to be obferved, that when fugar was triturated with Mercury it became black.

The fame experiment was try'd with a variety of fyrups, fuch as of diacodion, of kermes, and of violets; and I always obferved that a more thorough extinction of the Mercury with the mucus was thereby produced.

In this manner, by different fyrups, a variety of colours, tafte, and C fmell, fmell, may be communicated to Mercury, fo as to conceal it from the knowledge of fuspicious perfons.

EXPERIMENT XV. Mercury with Linseed Oil and Fat.

I extinguished Mercury in the pure oil of linfeed, with little labour, but a fmall quantity could only be thus united with the glutinous fediment of the linfeed oil. Water occafioned a fediment of the confistence of butter, and when this was feparated the Mercury could not be extinguished in it. Perhaps by a boiling heat Mercury might be made to form a more intimate union with oil, which experiment, however, I have not try'd.

But Mercury extinguished by gum arabic will admit of a very ready union with either oil or fat; nor will

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it feparate and fall fo foon to the bottom, as it does in the common Neapolitan ointment. — See Experiment VI.

COROLLARIES.

From these Experiments (7, 8, 9, 10, 11, 12, 13, 14, 15) it evidently appears,

ift. That of all vegetable, gummy or plastic substances, gum arabic is the only one which in its nature approaches the nearest to animal mucus: hence it is to be preferred in extinguishing of Mercury.

2dly. That the extinction of the Mercury by means of animal mucus and gum arabic, does not depend upon mechanical principles, nor can it be referred only to the viscidity of the C 2 mucilage; mucilage; for many other fubftances, more vifcid and tenacious, when longer triturated with it, by no means anfwer the fame purpofe; and water, which is the beft and pureft menftruum for gummy fubftances, can neither feparate animal mucus, nor mucilage of gum arabic from Mercury, provided they had been intimately united together; the contrary of which takes place in the mucilage of gum tragacanth, in that of quinces, and others.

3 dly. And then, although mechanical triture greatly affifts the extinction of Mercury, a true affinity exifts between Mercury, animal mucus, and gum arabic; and this is the reafon why, when once united, they remained fo firmly attached to one another: nor does the mucilage rather ther attract the water, but immediately joins it to the Mercury, fo that they all remain intimately united.

When I had fufficiently proved every thing by experiment, and when I was convinced thereby of the affinity which Mercury has with the faliva and animal mucus, which my ingenious friend firft fuggested to me, I did not doubt but that his opinion with regard to the action of Mercury in the throat and falivary glands was well founded, and it carried more probability along with it, than that of all the reft.

But fince gum arabic in every refpect excels the animal mucus in extinguishing Mercury, it seemed to me that this was the fittest and most natural vehicle of Mercury, by which, as a medium, it could be united C_3 with

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with all the fluids of our body. However being little folicitous about forming a new hypothesis, I believed that my labour might be more ufefully employed, if I tried the effects of such a preparation in those who had the venereal difease, that we might be affured whether it could pass the PRIMÆ VIÆ in such a form; for if it could pass into the blood in this manner, we did not doubt but that it might cure the venereal difease more effectually than any of the other preparations; and that from its being perfectly mild, and deftitute of fuch acrimony as might hurt the body, while the other preparations cannot be given in large doses from the great quantity of faline acrimony that adheres to them, and when prefcribed in fmall dofes,

dofes, they act only after a confiderable length of time, and cure the difease very flowly.

I was from this time determined, by the approbation and advice of a very ingenious man, to take the first opportunity of trying Mercury thus prepared, when any perfon should offer who laboured under the venereal difease.

Three days after, a woman with the venereal difeafe came to me, whole hiftory is mentioned in the first observation: afterwards others came labouring under the fame difeafe, whole cafes are given in the following observations.

When I perceived in all these cases the remarkable and fudden efficacy of this gummy preparation of Mercury; and constantly observed C 4 that

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that its usefulness exceeded my most fanguine expectations, fo that in a fhort time it did more than could be expected from all the other preparations; and farther found that no falivation could be excited by this preparation, although given in very large quantity, unless there was another mercurial in the body, or during the cure another befides the gummy mercurial was taken; I was fully convinced that this was the best method of giving Mercury, and that no other could be compared with it.

Having thus discovered my method of preparing Mercury, I shall now submit to the public, for very important reasons, already offered in the preface, my own observations and those communicated to me by others.

СНАР.

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CHAP. II.

Practical Observations regarding the Efficacy of this gummy Mercurial in the Venereal Disease.

A Woman aged twenty-eight, of a fanguineous temperament, who had for fome months venereal blotches on her forehead and face, and a very ugly fcab over her whole body, labouring under the fluor albus, watchings in the night-time, and pains of the joints, came to me, to C_5 felt

fell her poultry, and being much ashamed, she covered her face over with a cloth.

Nobody would buy her poultry from her, on account of her being of a nafty appearance; I immediately knew the difeafe, and after examining her, I promifed that as fhe was poor, I would give her Medicines for nothing, if fhe would return to me every three days, and let me know how fhe did.

The day after, fhe took a mercurial purgative, and the following day fhe began to take one fpoonful of the fimple folution (No. 1.) morning and evening, with a decoction of farfaparilla and hemlock; fhe likewife used the warm bath.

She returned three days afterwards, and her pain was fomewhat abated; I ordered

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ordered her to continue the bath, and to take two spoonfuls of the solution morning and evening.

She returned three days after, and was entirely free from her pains, fome of the fpots had difappeared, fhe refted better in the night time, her fluor albus was the fame as before.

On the thirteenth day all the fpots difappeared, there were no nocturnal pains. I gave her a fresh quantity of the mercurial solution, to which I added the balfam of capivi, as is prescribed in (No. 2.)

The woman returned in eight days after, free of all her fymptoms; except the fluor albus, which was by no means abated, because the still admitted the embraces of her husband, as the herfelf confessed. I or-C 6 dered

ago.

dered that her hufband might be brought, and I promifed to cure him for nothing.

But being free from her former complaints, she became negligent, she would not hearken to my advice, and has never fince returned.

Yet I will, on this account, not allow that this obfervation is in the least imperfect, for it fufficiently proves the efficacy of our remedy in removing her former complaints.

This woman fwallowed more than three drachms of the gummy mercurial, nor was there the leaft fign of a falivation.

OBSERVATION II.

A foldier, aged thirty, of a fanguineous habit, having fome months ago

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ago a gonorrhœa ftopt, he contracted a pox, and befides venereal blotches on his forehead, and on both fides of the frontal bone, he had a broad tophus, not however much elevated; he was likewife troubled with pains of the joints; his throat, and the glans penis, were much ulcerated.

Having given him a purgative, he began to take daily two spoonfuls of the solution No. 1. with a decoction of the sarfaparilla without milk.

All his complaints were entirely removed in fix days, without any falivation, unlefs, that when he was exposed to cold, there appeared very broad reddifh spots on his forehead and face, very different however from the former, and which again disappeared of their own accord by the heat of a slove. I still persuaded him

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him to repeat his medicine, which he did, and was entirely cured in eight days. Although this patient had always formerly a gentle falivation excited even by a mild purgative, yet after taking three drachms of this gummy mercurial, which effected the cure, no fign of falivation could be perceived.

OBSERVATION III.

of the farfageralla without milk.

began to take daily two (sochfuls of -

A Soldier, aged thirty-fix, of a fanguineous temperament, had a violent rheumatifm in his right arm, from a venereal caufe. In the middle of the os humeri there was an incipient tophus. There was befides a foul ulcer in the upper part of the first metacarpal bone which corresponds with the thumb. These com-

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complaints had continued more than fix months.

But a gonorrhœa being fome days before ftopt, there came on a fwelling and pain of the tefticle, which brought on a ftrangury in making, urine.

He was blooded on the first day, and the fame day he took a cooling purge; an emollient fomentation was applied to his fcrotum. The day following he fwallowed emulfions of almonds, gum arabic, fyrup of diacodion, and likewife many cups-full of decoction of farfaparilla, with multein and marshmallows.----Hewent on in this way for three days; the pain of his tefticles ceafed. The gonorrhæa did not even return; he made urine more eafily; the left testicle remained swelled; the right was

was much diminished in fize. A balsamic effence in which there was two grains of corrofive sublimate diffolved was applied to the foul ulcer.

My mercurial ointment (No. 6.) was applied to the tophus. There was given internally two fpoon-fulls of the folution (No. 1.), with the decoction of farfaparilla and the emollients.—There was also applied to the fwelled testicles my mercurial ointment, with the ung. de Lithargyr.

All these things were continued for cleven days; the tophus disappeared, the swelling of the testicles was resolved, and the rheumatism was cured, the callous edges of the ulcer disappeared, and it became perfectly clean on its surface. I then applied the balsamic mercurial ointment to it; and

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and in fourteen days he left Vienna perfectly cured.

During the whole time that he took fix drachms of this gummy mercurial, he had not the leaft fign of falivation.

OBSERVATION IV.

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A man, aged twenty-eight, of an emaciated habit, who had been for more than a year troubled with a dry feabby eruption, was at laft feized with a gonorrhœa, which he has now had feven months.

On the first day he was purged, on the second day he began the balfamic mercurial solution (No. 2.) with the decoction of sarsaparilla, burdock, and polypody.

In eight days neither the gonorrhœa or fcabby eruption was changed; ed; the urine only flowed more copioufly.

In other eight days the running of the gonorrhœa was in lefs quantity and whiter, but the eruption continued as before. I was therefore perfuaded to wafh his extremities with a vegeto-mineral water, composed of one pound of fountain water and one drachm of the acetum lithargyrii.

Nor was the feabby eruption changed for eight days after, altho' the gonorrhœa was much diminished.

Therefore I employed for the eruption the following ointment: R. Puly. Helebor. Alb. Sal. Ammon. Crud. a Zj. Axung. Porcin. Zij. Ol. Rofac. gutt. x. m. f. Ung. to be applied to the extremities twice a day, fometimes to one feabby part, fometimes to another. And thus in the the space of eight days, by continuing the balsamic solution of Mercury, the gonorrhœa was cured, and in a short time the scabby eruption entirely disappeared.

This eruption, however, was not venereal, but received in fome other manner.

The good effects of the white hellebore in the itch, which I have frequently experienced, I owe to the most eminent and skilful Dr. Pringle *.

OBSERVATION V.

A widow, aged 47, of a thin habit of body, was afflicted, for more than two years, with a very malig-

* Observat. on the diseases of the army, on the itch, p. 311.

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nant fluor albus, afterwards with the gout, head-ach in the night-time, ulcers of the throat, venereal protuberant blotches on her forehead and face, condylomata about the anus, the bones of the nofe carious, an incipient tophus of the left elbow, an ugly fcrophulous fore in her neck; and for all thefe complaints fhe afked my advice.

Having given her a purge, the day after the began to take morning and evening two fpoon-fulls of the balfamic mercurial folution, and to drink the decoction of farfaparilla and hemlock with milk.

She washed her throat and nose frequently in the day time with the gargarism (No. 4.); she touched the venereal blotches of her sorehead and face every day with the caustic solution tion (No. 3.) diluted with a good deal of rose-water.

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The venereal blotches, in three days time, were covered over with a cruft, and perfectly dry.

In eight days the pains abated, the blotches entirely difappeared, fo that the fmalleft veftige of them did not remain.

The other fymptoms remained the fame.

She continued for fome days to take the mercurial folution, but being feized with an intermittent fever, I omitted the folution: a purgative, and afterwards the Peruvian bark was prefcribed for her, by a very eminent phyfician who first committed her to my care.

The fever ceafed in four days, the venereal fymptoms continued as be-3 fore, fore, except that the ulcers in her throat were better.

She began again to take the folution; her throat became much better, her noftrils however were more fwelled: I then ordered her to draw up into her nofe the decoction of the hemlock mixed with the mercurial balfamic gargarifm; and a poultice of bread and milk was externally applied to her nofe.

In four days the fwelling of her nofe difappeared, and there dropt from her noftrils a large quantity of a fanious purulent matter.

Eight days were fcarcely elapfed, when fhe was feized with a very irregular intermittent fever.

She then abstained from every mercurial, and after being purged, the repeated the use of the bark; 3 the

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the fever disappeared in fourteen days, * but the venereal symptoms which yet remained became much worse. Being at last free from the

* The very eminent PETIT, the father, is of opinion that a quartan fever is fometimes a fymptom of the venereal difeafe, and therefore he cures quartan fevers by falivation, in those perfons who many years before have had venereal fymptoms, and even some after they have resisted febrifuge medicines. Memor. de l'Acad. Royale de Chirurgie, tom. I. p. 347, &c.

But V. SWIETEN has given us an obfervation which leads to a contrary opinion: during the courfe of a falivation, he obferved a quartan fever of a regular type. Comment. tom. I. p. 10. I can positively affirm that I have feen an intermittent fever brought on by unction in venereal patients, which could be cured by no other remedy but the bark; and as often as the Mercury was repeated, fo often did the fever return.

intermittent

intermittent fever, she used, for three weeks, the folution and other remedies, so that the pains, head-ach, tophus, and scrophula, entirely difappeared.

The fluor albus remained, but lefs violent and whiter; the carioufnefs about the nofe and the condylomata about the anus were not gone.

The condylomata were touched with the cauffic folution; they became immediately fmaller; a cruft was formed. The other means are continued, and I hope I am about to effect the cure.

OBSERVATION - VI.

A man aged 45, of a thin habit, has been for nine years fo afflicted with repeated gonorrhœas, that he he has been fcarce eight days without this troublefome running; the fluid difcharged at the time he began my medicine was thin and yellow, he has an itching in the middle of his urethra, and while he makes urine he feels a very troublefome tenfion, and has a very painful chordée. I advifed him not to truft to a cure which was promifed to him by a quack, by ufing a fecret medicine by injection.

The next day he took a purge, and the day after I fuspected that there was an abscess in his urethra; I therefore introduced a bougée covered over with the balsam of arcæus.

On the third day, when I tried to introduce a new bougée, there was fuddenly felt a pain in the mid-

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dle of the urethra, and there was a greater quantity of yellow pus, mixed with fome drops of blood, fuddenly difcharged, which might have filled a tea-fpoon.

He took for eight days morning and evening two fpoon-fulls of my balfamic mercurial folution; for his ordinary drink, he drank twice a day a decoction of farfaparilla and hemlock with milk; for half an hour he introduced a bougée covered over with the balfamic mercurial ointment.

During almost eight days, the running of the gonorrhæa was very copious.

In other eight days the flow was lefs, and the colour was whiter.

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He continued for fome time in this method, and at laft dry * bougées were introduced; the running by degrees ceafed altogether, fo that, on the thirtieth day from the beginning of the cure, he went away from Vienna perfectly well, and promifed to write to me if he had any relapfe of his ailment. During the whole cure there was no fymptom of falivation.

OBSERVATION VII.

A man aged thirty-fix, of a fanguineous habit, for more than five years had been affected repeatedly with gonorrhœas; he had fometimes alfo ulcerations both on his prepuce

* For the composition of the bougées, you may confult the chirurgical works of the most skilful and excellent GOULARD, written in French, Tom. II. which book cannot be sufficiently admired. and glans, and one large condyloma on the glans.

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After giving a purgative, on the following day he took the mercurial balfamic folution. The ulcers were dreffed with the mercurial ointment. The condyloma was twice every day touched with the cauftic folution.

On the first day the ulcers became larger and more suppurating: on the eighth day they were perfectly cured : on the thirteenth day the condyloma was perfectly dry.

The running of the gonorrhœa was less in quantity, and I introduced a bougée covered over with mercurial ointment.

He was thus entirely cured in four weeks; nor was there, during the cure, the least fign of a falivation.

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OBSERVATION VIII.

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A man aged twenty-eight, of a thin habit of body, contracted pains in the joints by a gonorrhœa that had been ftopt three years ago; at laft the glands of his neck became fcrophulous; and he had feven broad deep ulcers in his throat, when he committed himfelf to my care.

On the first day he was purged, on the next day I ordered him to take two spoon-fulls of the simple solution morning and evening, andfor his ordinary drink he had a decostion of sarsaparilla, hemlock, and the pectoral species with milk.

On the fourth day a gentle falivation began: however, the fluid difcharged was more glutinous than D 3 the the falivary, but during it, the ulcers of the throat became very foul, on which account they were touched twice a day with a feather dipt in honey of rofes, which was mixed with a fmall quantity of Egyptiac ointment; he frequently wafhes his mouth, and injects into his throat a balfamic gargarifm prepared without the gummy mercurial: he was ordered to take one fpoonful of the mercurial folution morning and evening.

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The falivation thus continued until the feventh day, but was very gentle, attended with neither inflammation of the gums or loofening of the teeth; three, and fometimes four ounces were difcharged in a day, the ulcers became daily cleaner and fmaller. What feemed to me furprizing, furprizing, was, that at last the falivation ceased even under the continuance of the folution; and although again, morning and evening, two spoonfulls of the folution were taken, yet during the rest of the cure there was no farther sign of falivation.

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By the fixteenth day all the feven ulcers of the throat were perfectly cured, the pains were entirely gone, and he refted well in the night time. But, contrary to my inclination, one of the fcrophulous glands was by a quack eroded and ulcerated by means of a blifter. I then ordered that the open fore, which was as yet very hard about the edges, might be dreffed with balfamic ointment mixed with the gummy mercurial. The other glands were rubbed with my D 4 mercumercurial cerate, and afterwards covered over with a plaifter.

In eight days after, all the fcrophulus glands difappeared, and the open ulcer was healed.

It may be afked, whether the falivation was in this cafe produced by my mercurial preparation, or by the former Mercury which might be ftill in the body? In the feven first obfervations there was no fign of a falivation; and befides, this falivation only lasted for feven days, nor did it continue although the dose of the gummy mercurial was increased, which was repeated even for three weeks.

Befides, this man had been taking a variety of mercurial preparations for many years, and not long before my cure, he had been using it by friction,

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tion, fo as even to have a falivation excited, and that without effecting a cure.

From the following observations I learn that a falivation may be excited in those perfons, who immediately before the use of my mercurial, or during its use, have taken other mercurials internally, or applied them externally. I have feen this happen from the emplastrum Vigonis, Neapolitan ointment, calomel, and a folution of corrofive fublimate in spirit. The gummy mercurial feems to accommodate itself fo well to the falivary glands, that any other mercurial taken either before or during the use of this mercurial, more readily brings about a falivation. al beunitaco sudfa rouft

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OBSERVATION IX.

A girl eight years of age, of a fanguineous temperament, had for more than half a year the labia vulvæ, the perinæum, and the whole circumference of the anus covered over with fmall condylomata; fhe had likewife a very fætid fluor albus.

The first passages being cleanfed, fhe began to take the balfamic mercurial folution, and the condylomatous crufts were touched twice a day with the caustic folution, so that in three weeks they disappeared, and on the fourth week the fluor albus was cured.

She had, however, a very troublefome itching of the vagina after the condylomata were cured, while the fluor albus continued. In three days the itching went off, by anointing the vagina with the mucous mercurial

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rial ointment, and three times bathing in the water of the Danube.

OBSERVATION X.

A man, aged thirty-five, twelve years ago having a venereal bubo, which went off by refolution, was feized with violent pains in his joints, which were treated by a variety of mercurial preparations: they were leffened by these means, but never entirely cured; and now he has for fix years lived perpetually affected with these pains, and last year a venereal gummi arofe from the feventh true rib of his left fide, which, by degrees, ulcerating, gave out a large quantity of sanious pus : it was treated with exficcants; and partly for the cure of the pains, and partly for that of the gummi sore, Baden bath was ordered for the patient; he be-D 6 gan

gan the use of this bath, but while he was in it the third time, he was feized with a palfy in one fide, therefore he returned to Vienna.

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The pains were fo violent, that, altho' he loft the motion of one fide, he loudly complained of them.

The patient was found in this fituation by a very eminent furgeon, who brought him to me, and then, by the advice of a very fkilful phyfician, my gummy mercurial was prefcribed for him, with the decoction of farfaparilla and milk; the ulcerated tumour was dreffed with the balfamic mercurial ointment.

On the third day the patient could move his fingers more eafily, and with lefs pain; the ulcerated tumour on the rib began to difcharge more pus. On the fourteenth day the gummi was refolved and cured: the venereal pains and palfy difappeared in four weeks. A fciatie pain, however, ftill continued, for the cure of which a very eminent phyfician prefcribed pills prepared from the gummy mercurial, hemlock and camphor, and in three days after the pain entirely left him.

OBSERVATION XI.

A purge was ordered her, and her

teil the girl perceived a filivation,

A girl, aged 23, had for fix months venereal fcabs, and condylomatous criftæ on the back part of the neck, the cheeks, and hands; had likewife a fluor albus, violent rheumatic and arthritic pains, efpecially in the night time: a large tophus alfo occupied the right tibia.

perfectly

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In fourteen days the feabs and condylomata were much mended, by the use alone of the gummy mercurial and the farfaparilla, and at the fame time all the pains left her. There were no figns of falivation. The emplastrum Vigonis was from this time applied to the tophus, whofe height was fomewhat lefs than half an inch. In fix days after, the girl perceived a falivation, and felt a difficulty in fwallowing. A purge was ordered her, and her throat was washed with the vegetomineral water; fo that in three days, the plaister and gummy mercurial being omitted, this gentle falivation entirely ceafed.

Some time after, she began again to take the solution, and without perceiving any salivation, she was perfectly perfectly cured. This, however, is furprizing, that during the use of this remedy a new tophus appeared in the left tibia, and which, after fome days, entirely went off.

OBSERVATION XII.

A child of a year and a half old, whofe parents were not venereal, had, for half a year, condylomata about the anus, rhagades, and finall ulcers in the angles of the mouth.

The parents believed that there was a venereal infection communicated to the child, by cloaths which had been ufed by others who had this difeafe.

An eminent physician, after giving a gentle purgative, prefcribed half a drachm of the gummy mercurial, minutely divided in two ounces of the the fyrup of violets, diluted with one ounce of the water of fumatory.

A tea fpoonful of this fyrup morning and evening, was given to the child, with the decoction of farfaparilla. The condylomata were touched twice with the cauftic folution, diluted in rofe-water, and immediately after, the ointment was applied to them. The ulcerated angles of the mouth were twice a day dreffed with the mercurial balfamic ointment.

By this means the child flept well on the fourth night, who, for fome months before, had very reftlefs nights; the angles of the mouth were for two days rather more ulcerated, then they became cleaner, and on the tenth day were perfectly cured.

The

The condylomata were perfectly dry on the twenty-third day; the child became well, and there was no fign of a falivation.

I might to thefe have added many other obfervations, by which the fuccefsful and expeditious effects arifing from the ufe of this mercurial were farther proved; but I choofe to pafs them over, as of lefs moment; nor were the difeafes fo violent as thofe already mentioned, and more effecially, as I shall give fuch other practical remarks as on a future occasion may prove worthy of notice.

In fact, I expect every day to experience the good effects of it, and more efpecially as I now understand that this preparation is frequently prefcribed for the fick by the most emiennt

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eminent phyficians in this city; and what more directly confirms me in this opinion, is a friendly letter I have received from Mederer, furgeor to a regiment of Danish curaffiers, * who attest the great success of this remedy in a variety of cases.

In almost all those that used this remedy, I observed a greater secretion of urine, which flowed not only in larger quantity, but was mucous and fortid.

* I have tried quickfilver twice mixed with water, agreeable to the art found out by you and the furgeon general, Mr. Zierzon, a Arad, has tried it above thirty times. The good fuccefs arifing from it has occasioned it use at the hospital of Temesvar, of which will afterwards give you a particular account &c.-[Translated from the German.]

Siclo, near Arad, 1st of Aug.

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In fome, however, in the fpace of a few days, there was relief from a fpontaneous difcharge by fweating; in none, however, did a diarrhœa or falivation come on, unlefs when other mercurial preparations had intervened. The belly of all of them was regular, and even in those who were otherways costive.

In some a fluor albus, in others a gonorrhœa was brought on again for a few days.

I have perceived nothing peculiar occur in indurated old buboes. I have feen tumours of this kind rendered fofter by the external application of the mercurial ointment, and the internal ufe of my gummy mercurial, but have as yet never been able to effect a perfect refolution; nor will that feem furprizing, fince it is obvious obvious to every one, how obfinate these indurations are, and how long they result medicines of the greatest efficacy.

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CHAP. III.

Conclusions relating to the Venereal Difease, drawn partly from the Ob-Servations already made, and partly from those of others.

WHETHER is not my method to be preferred upon an accurate comparison of it with others in use?

At prefent there are three different methods of giving Mercury.

Some apply Mercury externally in the form of unction, fo as to bring on a falivation, and by thus falivating ing their patients for fome weeks, attempt to cure the difeafe.

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Others apply it externally in a very fmall quantity, and by the interpofition of purgatives, prevent a falivation.

Others, again, use a variety of mercurial preparations which are taken internally.

From pathology we learn, that five POSTULATA are required before the venereal virus can be perfectly deftroyed by Mercury.

1. That so much Mercury be taken into the body, as is necessary for overcoming and destroying the venereal virus that exists in it.

2. That the Mercury flows freely through all the fmall veffels of our fystem.

3. That

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3. That it impregnates every particle of our fluids.

4. That it remains united with our fluids for fome length of time, and frequently circulates with them.

5. That at last the virus along with the Mercury be conveniently evacuated by natural excretions

I shall now in a few words enquire, whether the first, second, and third methods are sufficient for these purposes? or whether my method be preferable to them?

In a mercurial falivation the Mercury is very thoroughly and copioufly blended with our fluids; but that it is generally difcharged out of the body on the first days, appears from this,

this, that a piece of gold held in th mouth then becomes white; though afterwards, unless a fresh quantit of Mercury is taken in, the faliva ha no fuch effect; a fure proof that al the Mercury is evacuated from the fystem *. This seems to me to be the reafon, why many by repeated falivation have not been cured of the venereal difeafe, especially those who had a falivation foon excited in them after the fecond or third anointing. by which the Mercury was too foon evacuated out of the body.

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Befides, a falivation is very inconvenient, is dangerous, does not give a certain cure, is not critical, nor can

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* Illustr. Von Rosenstein Abhandlung von denen Kinderkrankheiten, C. de Lue Venerea.

tidy on the full days, appears

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it be excited in every fubject, nor is it neceffary in any.

All this may be demonstrated in the following manner:

The inconveniencies arising from it appear of themfelves, when we confider the tediousness of the application of the unction, the inflammation of the throat that frequently attends it, the fever that is always prefent, a neceffary abstinence from almost all kinds of food, an uninterrupted discharge of saliva for fix or more weeks, a continual fear of fuffocation upon the least exposure to cold, troublesome exulcerations of the throat, a ftinking breath, and finally the body emaciated after the cure. I shall fay nothing of the confequences arifing from a constant confinement at home, from the pu-E trid

trid atmosphere that constantly furrounds him in his chamber, and befides of his being deprived of the company of his friends. Nor need I add more, fince * VAN SWIETEN, has with fo much clearness pointed out the inconveniencies arising from a falivation.

But a falivation is likwife a *dan*gerous practice; for the famous As-TRUC † attefts that there frequently fupervene, violent Fevers, Diarrhæa, Dyfentery, Hæmoptoe, an immobility of the jaws, and likewife a fuffocation, and that too when the falivation has been most properly con-

* Comment. T. 1. §. 135. p. 206, 207. † In his book on the venereal difeafe.

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ducted; and after him the most skilful - LOCHER tells us the same.

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That falivation is not a *certain* method of curing, appears from this, that there are many inftances of patients, whofe venereal complaints have returned after a firft and fecond falivation had been properly conducted. Befides ASTRUC himfelf very candidly acknowledges that neither gonorrhœas, condylomata, fiftuli or pains in the bones, exoftofis, fcirrhus, caries, rhagades, obftinate ulcers, herpetes, lichenes, gummata, or cancers, can be cured by a falivation, altho' moft fkilfully managed *.

Nor is falivation a *critical* difcharge; for we have no observation

+ MAXIMIL. LOCHER, Observat. practicæ circa Luem. p. 12.

* L. c. a. pag. 427. ad p. 453.

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to prove that a falivation coming of its own accord ever cured the venereal difeafe. Befides there are many obfervations, which prove that those infected with the venereal difease, have been radically cured without any falivation whatsoever. And the most healthy person by taking Mercury, will have that foctor in his faliva, which attends falivation in the venereal difease.

Nor is it *neceffary* for the cure of the venereal difeafe; for there are many examples of people who have been violently poxed, and yet have been thoroughly cured without falivation.

Since then it may be demonstrated by experiments that Mercury cures the venereal difease, only by destroying the virus, it will easily appear that that falivation is by no means neceffary for that purpose.

And Mercury, together with the venereal virus, may be more conveniently and more eafily evacuated by the ordinary excretions of fweat, ftool, and urine.

Since my method has neither the inconveniencies nor dangers of the falivating one attending it, fince it is more certain, and fince it can be employed in every cafe, it eafily appears how preferable it is to that of falivation.

We shall proceed to the other method.

CHICOYNEAU and HAGENOT, two very eminent men, to avoid the inconven[:]encies and danger attending a falivation, applied externally the mercurial ointment in fmall E 3 quan-

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quantities; and, that they might prevent falivation, they interposed the use of purgatives.

But even by this method, Mercury, contrary to expectation, although rubbed in fmall quantity, brought on a falivation that was with difficulty reftrained; and befides, the practice was very inconvenient, for I could frequently perceive that the cure was both flow and imperfect, from the Mercury being fo fuddenly difcharged out of the body by the purgative.

Let us now examine the third method.

Among all the mercurial preparations, calomel, fublimate corrofive, red præcipitate, and the various panacea, are to be taken notice of; but all these are either acrid or poifonous,

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fonous, and therefore neither can or ought to be given in large dofes; and when given in fmall dofes, they operate but flowly in deftroying the venereal poifon, from the finall quantity of Mercury they contain.

Among these, the sublimate corrofive alone, as diffolved in fpirit, is found the most efficacious; for its acrimony and poifonous nature is covered by the oil in the fpirit; and when given properly with a demulcent decoction, it very seldom excites a falivation; the naufeous tafte of the spirit may be corrected by a fyrup, and for more weakly perfons. it may be prefcribed diluted with water; and we most certainly learn from the experiments of LOCHER, and other very eminent perfons, that in thousands of cases, this remedy has E 4 been

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been attended with remarkable good effects, when given prudently, and continued for a length of time, and as I myself, for more than five or fix years, during the last war, found from my regimental practice.

I shall not enquire into the other methods of giving Mercury, because they are without efficacy, or exploded from practice. — Thus æthiops and cinnabar, fo much recommended by BOERHAAVE * internally, in the cure of the venereal difease, are found to have no efficacy. — Thus some join quickfilver with purgatives, others with balfam of Peru, turpentine, camphor, and sugar: By these various additions, the evacuating power of Mer-

* Chem. T. II. p. 432, and T. I. p. 578.

cury

cury is increased; it is too foon difcharged by stool, urine, or sweat; nor do these additions, even when frequently repeated, restrain falivation; nay even by these means Mercury directs its course sooner to this excretory.

From all these circumstances it will appear that the gummy mercurial is to be preferred to all the other preparations hitherto known; because, during its use, the inconvenience and danger of a falivation are never, or but very feldom, to be apprehended, because it can be taken fafely into our fystem in very large and fufficient doses, because it circulates readily with our fluids, because it operates sooner upon the venereal poison, and may be fafely employed in every case whatsoever.

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It may be proper to join the following corollaries to those conclufions already drawn:

1. Mercury alone is fufficient for deftroying venereal poifon.

2. Mercury, when topically applied to venereal parts, acts fooner and more certainly on the poifon which topically exifts in that part to which it is applied.

3. Therefore Mercury ought to be nfed both internally and externally at the fame time.

4. Mercury more especially deftroys the venereal virus in the folids of our body, and not the effects arising from such a virus. The difeases that remain after falivation sufficiently prove this.

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5. Therefore, during and after the use of Mercury, other remedies are indicated, and ought to be prescribed for venereal patients, according to the variety of their symptoms.

Hence no one ought to cenfure me, becaufe, according to circumftances, I frequently joined other medicines to the mercurial; but I will communicate the fpecific cure of every venereal diforder in another work.

Experiments 1, 2, 3, 4, 5, 0.

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CHAP. IV.

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A new Theory of the Action of Mercury on the falivary Glands.

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OF all the animal fluids, Mercury has the greatest affinity with mucus.

Experiments 1, 2, 3, 4, 5, 6 evidently show, that Mercury is very eafily extinguished by it, and that it afterwards remains extinguished although diluted with water, and kept for some months; nor doe the fame succeed with blood, ferum th [109]

the yolk, white of an egg, or animal gluten.

Mercury, when extinguished by gum arabic, is fimilar to that which is effected by uniting it with animal mucilage, and by means of this menftruum it may be very readily mixed with the other fluids of our body. This is proved by Experiment 8.

Mercury, when taken by the mouth, or when abforbed into the blood, by being externally applied, firft of all meets with mucus in the throat.

For being thrown out by the aorta into the carotids, it meets with no mucous glands, but in the throat and cavities of the nofe; being carried here, it joins itfelf to the mucus by the principle of affinity and adhefion, and is retained in thefe glands, [110]

glands, which it would pass, if the attraction of the mucus did not prevent it.

Hence it is underftood, why there is a congeftion of fluids and tumour in the throat before a falivation. And it is evident that this by no means proceeds from the circulation alone, or the impetus arifing from the quickfilver, but the reafon why the Mercury adheres to these organs is to be fought for in the fingular affinity which it has with mucus.

This being first necessarily explained, I shall now mention some other circumstances, that we may understand the theory of falivation.

All the fecretory fyftem poffefs a fpecific irritability, by which means they are not excited into general aci tion tion by every stimulus, but only by fome particular ones.

This is proved by many observations, and may be taken as a truth. Thus cantharides more especially stimulates the urinary parts, and those of generation; emeticks the ftomach; purgatives, although injected into the veins of a dog, or externally applied to the abdomen of a -child, will ftimulate the inteffines, and bring on Diarrhœa. The vapour from burning fulphur will irritate the nerves of the lungs, although it will not eafily irritate the nose. The unfavoury juice of the beet, though void of acrimony, will -excite fneezing *; a glaring light will violently affect the eye, which

* Cl. Profeffor CRANTZ, Mat. Med. T. I.

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produces no change in the reft of our body.

It is therefore not repugnant to reafon to fay, that, by the fame law, the organs that fecrete mucus and faliva are irritated by Mercury, as a specific stimulus; fo that the fecretion of both becomes much greater than it was formerly.

This opinion, befides being founded upon certain principles, correfponds exactly with effects. I fee, however, an objection that may be offered, which is this: that although it be allowed that Mercury may be united and retained in the mucus of the glands of the throat, and affect thefe organs by its ftimulus, it does not from hence appear, why there is fo plentiful a difcharge from the falivary glands, fince Mercury

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cury is not fo eafily extinguished by faliva as by mucus.

This objection may be properly anfwered, and not from fancy, but from attending to the phænomena of nature.

A confiderable flow of tears follow from a small grain of fand falling into the eye, and this, by irritating the lachrymal gland, although the fand had not, nor could ever have reached it. A copious flow of faliva will be produced, by the application of an acrid aromatic substance, to the end of the tongue, and thus the falivary glands are stimulated, altho' the stimulus be not applied to them, but to the papillæ of the tongue. --From a nausea of the stomach, a fpitting is brought on, although the cause be in a distant part; and the throat. throat being irritated by a feather, a large quantity of faliva will be difcharged. Although therefore Mercury be accumulated more in the mucuos glands of the throat, than in the falivary, yet the latter may be very powerfully irritated by fympathy, fo that the falivary fecretion is even more increafed than that of mucus.

Therefore the caufe of a falivation from Mercury, arifes from its adhering to the mucous glands of the throat, and hence the falivary glands are ftimulated by fympathy.

Nor does it feem furprizing, that the falivary glands are even irritated by bland Mercury, in its fimple ftate, and not rendered acrid by falts; for it is not neceffary, that an irritating ftimulus fhould have acrimony; the mild mild juice of the beet irritates the nofe, and excites violent fneezing: warm infipid water irritates the heart and inteftines, and excites them into action: there is likewife a peculiar irritability in different parts of the human body, and there are likewife fpecific ftimuli, which correspond to this.

Mercury extinguished by gum arabic cannot exercise its specific stimulus on the falivary glands.

All the practical obfervations related in Chap. ii. prove this. I have known fome perfons, who were very pituitous, take a large quantity of calomel without falivation; and I have known two others, who having had falivation excited by other mercurials, upon the taking of gum arabic emulfion, have it leffened, and at laft removed.

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From whence we learn, how wonderful and unexpected properties arise from the mixture of different bodies. A fimple mucilage destroys the specific stimulus of Mercury; while at the fame time its anti-venereal virtues are preferved ! Hence the illustrious * VAN SWIETEN very properly prescribes for those who take his folution of fublimate corrofive, a large quantity of barley water, or of some such emollient decoction. These mucilages are the fittest for covering Mercury, fo that it may not exert its stimulus on the falivary glands.

Mercury extinguished by mucus passes more easily into the blood, ei-

* In his letter to Cl. Joh. BENEVENUT, inferted Comment. de rebus in scient. nat. & med. gestis, T. v. p. 717.

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ther the

ther by the primæ viæ, or when externally applied, than crude Mercury not extinguished.

For quickfilver, fwallowed in its crude state, passes through the inteftines, by its weight, nor does it adhere to them, and, although there is a large quantity of mucus in the primæ viæ, yet Mercury is not fo well extinguished by it, as to remain united in the manner it does, when thoroughly extinguished by the peftle of a mortar: every body must allow the truth of this affertion. For the particles of Mercury thus mutually attract one another, and as long as this attraction is stronger, than the attraction with the mucus, there will be no extinction.

The mucous mercurial circulates more eafily and equably through the veffels, veffels, than when united with a fatty ointment.

Mercury has a lefs affinity with fat, than with mucus +. Hence frequently when Mercury is united with fat, it makes its escape from it in the body, and takes its courfe to the glands of the throat, and excites falivation; or to the mucous glands of the intestines, and excites diarrhœa, fometimes to the synovial glands, caufing a stiffness of the joints, more especially to the knees, where there are a much greater number of mucous glands. I have obferved that the throat, the inteffines, and the joints are chiefly affected by Mercury.

On the other hand, when Mercury is extinguished by mucus, it readily

+ Vid. Exp. 6. and Exp. 15.

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mixes with all the fluids of our body: and therefore fafely circulates with them, through all the vafcular fyftem, and is equally diffributed over the whole; nor is there any reafon for its remaining in the mucous glands, while it is previoufly faturated with a fufficient quantity of mucus.

Hence likewife we underftand why the mucous mercurial, even though taken in large quantity, does not falivate, and why its power of curing the venereal difeafe is more expeditious than that of all the other mercurial preparations, fince it is fo equably diffufed through the whole mafs of blood, and can be taken with impunity in a larger dofe than any other. My obfervations, as well as those of others, confirm this.

Mercurial.

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But how Mercury acts on the venereal virus in deftroying it, no perfon can determine, unlefs the nature of this virus was perfectly known.

I am willing to confess my ignorance in this matter, and what I have advanced concerning the theory of falivation, I mean to be fubmitted to the judgment of eminent men, as hypothetical; and it will afford me pleasure, if any one will find out and demonstrate a better theory concerning the wonderful action of Mercury.

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Mercurial

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Mercurial Formulæ.

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No. I. SIMPLE MERCURIAL SOLUTION.

R. Mercurii vivi depuratifiimi, zj. Gummi arabici, zij. terantur invicem in mortario lapideo, addito medio cochleari, aquæ fumariæ, donec mercurius penitus difpareat in mucum.

Exacte fubactis admisce sensim conterendo Syrupi kermesini Zs.

Aquæ fumariæ Zviij.

D. S. mane & vesperi cochlearia duo.

No. II.

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No. II. BALSAMIC MERCU-RIAL SOLUTION.

R. Balfami Copaivæ

Gummi arabici ana 3ſs. terendo fubigantur. Exacte fubactis adde fenfim conterendo

Syrupi kermesini zij.

Aquæ fumariæ žij. tota hæc folutio mifceatur cum priori (No. I.) bene concuffo vafe denter mane & vefperi cochlearia duo.

No.III. CAUSTIC SOLUTION for the CONDYLOMATA.

R. Aquæ fortis Zj.

Mercurii vivi Zij.

Plumbi fimpl. zifs. fiat leni calore folutio.

No. IV. MERCURIAL SYRUP. R. Mercurii vivi 31s.

Gummi arabici. Ziss.

teranture

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terantur invicem in mortario lapideo addito medio cochleari aquæ fumariæ, donec mercurius dispareat in mucum,

fenfim conterendo admifce Syrupi violarum Zij.

Aquæ florum fambuci Zi.

D. S. pro infante cochleare coffée mane & vesperi.

No. V. MERCURIAL PILLS.

R. Mercurii vivi 3j.

APPEN-

Gummi arabici Zij. Terantur invicem addito medio cochleari aquæ in mucum. Huic bene fubacto adde Extract. cicutæ Zj. Pulveris liquiritiæ q. f. m. f. pil. gr. ij. S. mane et vesperi sex pro dofi.

No VI.

[124] No. VI. SIMPLE MERCU-RIAL OINTMENT.

R. Mercurii vivi

Gummi arabici aa Zís. Subigantur addito cochleari aquæ in

mucum. moloivion?

Huic admisce

Unguenti nutriti recent. Zj. m. d. usui.

Subinde camphoram & faponem nigrum, quando tumoribus induratis, fubinde balfamum quando ulceribus illud adhibui, addidi.

No. VII. SIMPLE MERCU-RIAL CERATE.

R. Mercurii vivi

Gummi arabici aa Zís. Subigantur addito cochleari aquæ in mucum.

Adde ceræ liquefactæ & butyri Cacao q. f. pro formando cerato, d. usui.

APPEN-

APPENDIX.

THE different and even opposite opinions which prevail concerning the cure of the Venereal Difeafe, fufficiently prove that we are not yet properly informed of the most effectual means of eradicating it, and of determining the operation and action of Mercury, in fuch a manner as is best fuited for the cure of particular symptoms. Inquiries into this subject should be made by persons well apprised of the difficulty, well acquainted with the difease in its various forms and appearances, and who had rather derive a reputation from performing radical cures, than from palliating particular fymptoms, while the caufe of the difeafe became more confirmed in the habit.

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Were we to enter upon this fubject, we should find it necessary to lay down principles that are positive and immutable, founded upon experience and observation, deduced from reason, and a thorough knowledge of the animal æconomy. The errors which have so generally prevailed, have arisen from conclusions drawn from ill-founded principles and false facts.

The nature of the Venereal Virus is perhaps unknown: it is too fubtile to be examined by chymical analyfis; it can only be difcovered in its effects.

Its operation upon the human body differs according to the parts which are primarily affected, to the manner in which it has been communicated, and perhaps, according to the degree of virulency in the original infection. In fome it unites more readily with the fluid parts of the body, and produces

duces its effects in the different organs of fecretion; in others it attacks the more folid bones, and infinuates 'itself into their very substance. In fome it caufes the most fix'd and excruciating pains; in others the most virulent and fanious ulcers; in many it lays in the constitution, dormant and inactive, ready to break forth in various forms, and with much violence, from the operation of some occasional caufe.

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It is frequently difficult to diftinguish it from other diseases; and while it remains seemingly in an inactive flate, it is multiplying itself in the constitution, and is even then contagious in its effects. It is likewife influenced by a diversity of temperament; the most virulent infection in some constitutions produces a more gentle disease, while in others the flightest infection gives rife to the most violent and obstinate symptoms. We

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We likewife find from experience, that fymptoms, which from their nature and appearance, threaten to become obstinate and fometimes fatal, will unexpectedly give way to fome particular preparations of Mercury which have proved unfuccessful in the milder state of this disease. For this reason it is of the utmost importance to study the separate effects and operations of particular preparations; for there is no one method of cure absolute and infallible in every case which may occur.

The Venereal Difeafe is found frequently complicated with other diforders, which may render the ufe of Mercury improper; hence contrary indications occur which require the niceft judgment to determine; and the united operation of fuch medicines are neceffary as may prevent the Mercury from injuring the conftitution. Much fkill fkill and difcernment is required to diftinguifh between urgent fymptoms that require immediate affiftance, and fuch as only arife from the direct action of the proximate caufe, and which will naturally difappear when the caufe of the difeafe is removed. The many indications which prefent themfelves renders it abfurd to fuppofe that there is one invariable method of curing this difeafe. The cure muft be fuited to the ftrength, age, fex, temperament and conflitution of the patient, as well as to the ftate of fymptoms.

Though there may be fome one general plan of treatment preferable to most others, by which Mercury may be introduced in the greatest quantity, and in the most active state, by which sudden and great evacuations may be avoided, yet it is highly absurd to believe that all the F 5 fymptoms fymptoms of this difease can give way to any one method of administring this medicine. Without attending to the proper circumstances of the patient the most efficacious remedies may be improperly directed, and become even dangerous in their operation : tho' nobody can deny the efficacy of the Bark in the cure of Fevers, yet it ought not to be indifcriminately employed in every stage of Fever, and its operation may in some particular instances be rendered fafer by a judicious combination of other remedies; it is the fame with regard to Mercury in the cure of the Venereal Difeafe. There are many imperfect cures from the use of some preparations of Mercury; difagreeable fymptoms follow the use of others; and as in chymical combination it often acquires greater degrees of activity, and is more readily conveyed 3 to

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to act upon particular parts; a change in the preparation frequently produces a lafting and effectual cure, in fuch cafes, where an obftinate perfeverance in one treatment aggravated every fymptom of the difeafe: An accuracy of judging, founded upon an extensive experience, is therefore neceffary to determine the best method of cure, in what manner it is to be varied, according to the state and fymptoms of the diforder.

Such is the nature of this difeafe, that its fymptoms will readily difappear under a courfe of Mercury, while the caufe of the diforder ftill remains in the conftitution; the more acrid and faline preparations of Mercury produce more readily this temporary effect, and hence the relief afforded by them has exposed us to much fallacy. Warm bathing, and many external applications will for a time F 6 remove

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remove Venereal eruptions and even Venereal pains; but fo far are fuch external applications from promoting the radical cure, that they will sometimes produce a more inveterate disease, by determining the Venereal Virus upon the internal Many Venereal Aphthæ or parts. Chancres may eafily be cured by external escharotics; but if Mercury is not properly administered, the disease will break out upon some other part of the body. A Gonorrhœa may be cured by injections, but it is liable to return again if Mercurials are not employed. It must be allowed however, that there are many local affections independent of any disease in the habit, which can only be cured by external applications to the diseased parts. And as the neglect of topical applications in fuch cafes has been productive of infinite mifchief, by conveying fresh infection into into the conftitution, an early and a judicious use of external applications to a part recently and primarily affected, while an attention is still paid to the general habit, often less the quantity of infection introduced.

Mercury being confidered as the only specific which can cure the Venereal difeafe, and its action in deftroying the virus, independent of any evacuation or other fenfible operation it may produce, all that by many is supposed necessary to cure this disease, is to prescribe this medecine in any form; and the practice by unction, conducted in fuch a manner as to avoid a falivation, has been justly confidered as one of the most certain and efficacious methods of cure; for by this means we avoid the difagreeable action of Mercury upon the stomach and intestines. It is now generally allowed that falivation

livation is not neceffary to the cure of the Venereal Disease, that the constitution is frequently impaired by it, that it exposes the patients to many inconveniencies, and that it limits us in employing the necessary quantity of Mercury, which is evacuated too early and before the cure can be effected: befides, inftances occur every day in practice, where the disease has been successfully treated by an alterative course of Mercury after repeated falivations had proved ineffectual. In my opinion, we may with equal propriety fay, that blifters cannot prove useful in the cure of fevers or topical inflammations, without producing a strangury, as to fay that Mercury cannot cure the Venereal Difease without producing falivation; and the free use of gum arabic and other mucilages corrects the inflammatory acrimony of both upon the fame principles.

Since

Since the publication of the last edition of this performance, I have had additional proofs of the superior efficacy of the precipitate I there recommended, and that its operation is frequently by urine.

I have had likewife farther proofs X. of the advantages arifing from the internal use of Mercury properly triturated by gum arabic, in which form it is easy and gentle in its operation; it may be employed with fafety in the most delicate constitutions under the most unfavourable circumstances: yet I must acknowledge, that there are fome cafes in which it has not answered my expectations, and where from the principles I formerly laid down I had recourse to other preparations with fuccefs. Mercury certainly acquires greater powers and activity by being united to acids, as in corrofive fublimate, in which state DEG its its operation is determined more readily to the skin; and I have frequently feen venereal pains and difeafes of the bones yield to this preparation, that had refifted falivation by unction : Mercury therefore, in fome preparations, will cure more effectually than the fame quantity could in others; but as in a faline form it is too acrid to be introduced in any confiderable quantity, as in that state it feems rather calculated to remove particular and urgent fymptoms, than to cure a habit univerfally difeafed; we prefer the use of Mercury in the form of unction, or what will answer a fimilar purpofe when rendered active by triture in the form prefcribed below. down I had recourse to

Though I believe the operation of Mercury in removing particular fymptoms may be affifted by antimonials, farfaparilla, mezereon, guaiac, and and other medicines, yet I am perfuaded, that cures have been vainly attributed to thefe, which could not have been performed independent of the Mercury; and from the prejudices generally prevailing against the use of Mercury, the public have been deceived by boasted specifics, which have been said to contain no Mercury, though such of them as have acquired any degree of reputation, have been found by a careful analysis to have Mercury in their composition.

As Mercury has proved fo fuccefsful in the cure of the fciatic, obflinate chronic rheumatifms, and many other difeafes; as it is probably the beft alterative medicine in glandular obftructions; an attention to the comparative efficacy of its feveral preparations is of the greateft confequence. Every new preparation therefore fore may bring additional virtues, and I earneftly recommend that precipitate from calomel prefcribed below.

The general reception which Mr. PLENCK's performance has met with, in this country, as well as the novelty of his reafoning, led me to enquiries which could not fail of being of public utility, in fo far as the refult of them might throw confiderable light on the nature of fuch preparations of Mercury as were but little underftood, though allowed by modern practitioners to be the moft efficacious, and the fafeft in the cure of the Venereal Difeafe.

I have always been much difpofed to fufpect the accuracy of the reafoning introduced by Mr. PLENCK in the chemical part of his work; but was determined, only, to find out its fallacy by fuch experiments as

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as were best adapted to the purpose. From these, and from practice, as well as from the observations of my friends, I may confidently affert, contrary to the opinion of Mr. PLENCK, that gum arabic has no fpecific affinity with Mercury; that Mercury, when properly triturated with it, is powerfully active; and that though perhaps it is lefs apt to falivate than other preparations, yet there is no means we can employ to obviate entirely the falivating power of Mercury in particular circumstances, but by fuch additions as will deftroy its anti-venereal effects.

Mr. PLENCK has found from a variety of trials, that gum arabic in the ftate of a mucilage promotes the extinction of the globules of Mercury more than most other substances. In this opinion he is in some measure right; but from the experiments which which I have made, I find honey in every refpect well fitted for an expeditious extinction; gum tragacanth, though a lefs foluble fubftance than gum arabic, when converted by warm water into a ftate of mucilage, and kept in that form by heat during its triture with Mercury, feems even to promote the extinction of its globules more than gum arabic.

In fact, the circumftance neceffary to effect this purpofe, is the interpofition of a body, more effecially of a vifcid nature, which will keep the mercurial particles at a diftance from one another, till the proper triture be employed for producing a change, which we fhall by and by explain.

Mr. PLENCK has most unphilosophically introduced the term of affinity to fignify a combination, which he supposes to take place between Mercury

Mercury and gum arabic: the term of attraction or affinity in chemistry is only applied to express that combination which takes place between two bodies, when they remain united together for any length of time, and when they only admit of a separation either by the force of fire or the interposition of a third body: nay, he goes farther, and endeavours to convince, that there is even a specific elective attraction between Mercury and gum arabic; but if this was the cafe, a change of properties should arise from their union, and if Mercury was previoufly united or triturated with other mucilages, gum arabic should, upon being applied, occasion a separation from them, and form a union with it itself. But Mr. PLENCK has brought no experiments in proof of this fuperior attraction; and I find from experiment that gum arabic only acts as

a mucilage; that other mucilages will do the fame; and from mixing equal quantities of honey and gum arabic together, I have obtained a more perfect triture than by gum arabic alone.

When Mercury is exposed to a long and tedious triture by itfelf, a quantity of it is converted into a greyifh powder, which fhows no globular appearance to the beft microfcope; and by this process it feems to have undergone a degree of calcination, and from being an innocent, and a safe, nay, even an inactive fubftance in its globular form, it has now become one of the most active preparations which we can employ.

Dr. BOERHAAVE beftowed a great deal of attention, in the preparation of this powder; he inclosed a quantity of Mercury in a phial, which he tied to the fail of a wind-mill; and notwithftanding a conftant agitation for fourteen fourteen years, he was not able to procure any confiderable quantity of it: the caufe of the failure was his not giving an inteffine motion to the particles of the fluid; it was a regular, uniform, and entire motion to the whole, and that in contact with a fmooth furface.

I inclosed a pound of quickfilver in an iron box, with a quantity of iron nails, and a fmall quantity of water; I fixed the box to the wheel of a carriage, and during a journey of four hundred miles, I obtained two ounces of this greyish powder; I separated a small quantity every day by the affistance of the water, and added fresh water for a new separation *.

When I confidered that the Mercury in its crude ftate might be

* It is here to be observed, that as Mercury admits of no union with iron, a proper utenfil of that metal was the fittest for the purpose.

taken

taken internally in large quantities without its producing any fenfible operation; it feemed to me improbable that the minute division of its parts, independent of any other change, could render it fo active, as from experience we find it to be when triturated with viscid substances or dry powders. I therefore was led to enquire into these changes, which it was probable it underwent by triture, and for that purpose instituted the following experiments:

I triturated Zij. of Mercury with Ziv. of gum arabic, in the state of mucilage, till the whole acquired the colour of our mercurial ointment.

I diluted them with eight ounces of water, in confequence of which, a large quantity of mercurial globules, finely divided, immediately precipitated to the bottom : thefe I feparated, and being allowed to ftand till I dry,

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dry, they run into one entire globular form, weighing 3j. and gr. xlv.

The folution ftill continued impregnated, and afforded a ftrong mercurial tafte, and whitened gold : after it had ftood for fome time it depofited a greyifh powder, weighing gr. xij. which was not of a globular form, as far as I could determine from the microfcope; and when the liquor was filtrated, it no longer tafted mercurial, nor did it tinge gold.

From this experiment it appears, that during the triture with the gum arabic, about twelve grains of this greyifh powder was produced; that the impregnation and mercurial tafte was owing to its minute diffusion in the fluid; that however, no true folution had taken place; for, by the affiftance of the filtre, the Mercury was entirely feparated.

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I fuspected likewise that the change of colour obtained by triturating Mercury with other fubftances, was entirely owing to the quantity of this powder produced, and to its minute diffusion. I therefore diffused gr. xij. of this powder in four drachms of mucilage of gum arabic, and obtained a colour much the same with what was produced from the triturating 3ij. of Mercury with the four of gum arabic, agreeable to the experiment already related.

I found from fimilar experiments, that Mercury fuffered the fame change in honey, and gum tragacanth; and in proportion to the quantity of triture employed, the preparation was the more active; and the quantity of crude Mercury recovered, in confequence of a deposition, was the lefs.

From these experiments I was fufficiently authorized by analogy to suppose, fuppofe, that Mercury, when triturated with axunge, and with turpentines and other oily fubftances, in the form of mercurial ointment, &c. underwent the fame change; but I found great difficulty in recovering the crude Mercury from thefe, and feparating or wafhing off the powdry, calcined, or colouring part: the difficulty chiefly arofe from the whole not admitting of any union with water, fo as to be properly diluted to favour the feparation.

However, by preparing a foap with mercurial ointment, I was able to feparate the oily part by means of an alkaline falt, and then the folubility of foap in water afforded me a means of recovering the crude Mercury, though by the intricacy of the procefs I could not obtain fuch an entire feparation as to amount to an accurate experiment.

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Mercury

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Mercury is not fo readily divided and converted into its femi-calcined ftate by triture * with dry powders, though there are feveral preparations in the fhops of this kind, as the mercurius alkalifatus, facharatus, &c.

I took an ounce of mercurius alkalifatus, in which there were three drachms of Mercury, and added a quantity of vinegar to it, fo as to diffolve the calcarious part, and I recovered all the Mercury, except five grains. Another proof that Mercury, during a long triture with an earthy body, does not fuffer this change in any great degree, is the colour being little altered, and the medicine being very mild and gentle in its ope-

* The change which Mercury undergoes by triture feems to be the lofs of a fmall quantity of its Phlogiston, which it readily recovers again by heat and the contact of inflammable matter.

ration,

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ration, fo as to disappoint us frequently in its effects.

These experiments fufficiently prove, that Mercury undergoes this change by triture, in a fimilar manner, though in a different degree, according to the nature of the fubstance employed; and that the colour produced depends on the quantity of Mercury converted into this state, *i. e.* on the degree of triture used.

I was now defirous of knowing how far the medical virtues refided in this powder; becaufe, if I should find that to be the cafe, I could obviate the inconveniencies arising from the prefent mode of exhibiting Mercury as diffused in different bodies, and which depend on the uncertainty of the effects, from the unequal degree of triture employed.

The different means hitherto employed for converting Mercury into G 3 this

this state of activity, being tedious and expensive, I bestowed some attention in confidering how I might produce the fame change by an eafier operation. However, I first ascertained the properties of this powder, that I might be enabled to make comparative tryals of it with others. In the first place it retains the power of acting on gold, of giving it the colour of filver, and this power it loses when united either with fulphur or acids: it is converted by a small degree of heat into a powder of the fame colour with the mercurius calcinatus finely levigated. As mercury is rendered fo active by the addition of acids, and has its phlogiston on which its globular form depends, detached by thefe, I did not doubt, but by fuch means as would entirely feparate the acid and preferve the calcined state of the Mercury, I could produce

produce a preparation which on chymical tryal would in every refpect be found the fame with the greyifh powder obtained by triture, and which would produce the fame effects in the practice of phyfic.

For this purpose I chose to have recourse to calomel, as being that preparation in which the acid is in the smallest proportion, and where the Mercury is the least deprived of its phlogiston, and where a less intimate combination takes place than in corrofive fublimate, though the fame acid be employed. I added to Zij of calomel zij of vol. alkali; the calomel was immediately changed into a dark greyish colour; I washed this powder with pure water, and on weighing it, found it had loft gr. xij; on examining the vol. alkali, I found it changed into an ammoniacal falt, formed by the acid of the calomel: this precipitate when G4 applied

applied to gold produced the fame effect as the powder obtained by triture, and when applied to the fame degree of heat was converted into the fame appearance; and it loft thefe properties on the application of an acid of any kind .- The fame effects nearly happened on adding the fixed alkali, or lime water, to calomel. From every view of the fubject, I was led to believe, that Mercury both by triture and by precipitation from calomel had undergone a fimilar change. And as the calcination of Mercury by fire into the state of mercurius calcinatus, is an expensive and tedious process, and as, from trial, I had found that preparation an efficacious medicine, I did not doubt, as this powder feemed to be produced by a less degree of calcination, that by committing it to proper veffels, and applying a neceffary degree of

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of heat, I could obtain a mercurius calcinatus in a much shorter time *. I there-

* The black, or grey powder of Mercury, obtained by triture, when exposed to a confiderable degree of heat in close vessels, is reduced to its former state of quickfilver; as is likewise the mercurius calcinatus per fe. If Mercury be detained for several months in close vessels, in the heat of 180 degrees, a part of it is converted into a powder of the same kind with that obtained by triture: and if this heat be increased, and continued for eight or ten days, that black powder becomes mercurius calcinatus per fe.

Dr. BOERHAAVE exposed Mercury to the heat of 100 degrees of FAHRENHEIT's thermometer for fifteen years and a half, during which time it underwent no change; but a very fmall quantity of the greyish powder was produced on its furface, which, by triture alone, returned to the ftate of quickfilver.

Such is the indiffructible nature of quickfilver, or its refiftance to any permanent change, that after diffilling it five hundred and eleven times, it was not altered in its nature. — And that either an increase of heat,

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I therefore took zj. of the precipitate from calomel, and put it into a fand heat in a fmall phial for eight days, and found it turned into a reddifh powder, in every refpect the fame with the mercurius calcinatus, finely levigated; I prefcribed it in medicine in the ufual dofes, and perceived fimilar effects from it, as from the mercurius calcinatus made in the common way.

or even triture alone, is fufficient to reduce either the black powder, or mercurius calcinatus, to their state of quickfilver.

The precipitate obtained from calomel, is reducible by triture, or an application of a confiderable degree of heat in clofe veffels; and by the continuation of a more moderate degree, is converted into a mercurius calcinatus per fe.

As it appears from the analyfis of KEISER's pills, as mentioned by Dr. ASTRUC, that they are a combination of vegetable acid, or vinegar with Mercury, effected by triture; they may eafily be prepared, by adding that acid to the precipitate from calomel, which it readily corrodes.

If

If I am right in my general doctrine, that the activity of Mercury by triture depends on the quantity of it converted into this calcined state; it suggests a ready method of preparing this powder from calomel at a fmall expence, which, when diffused in gum arabic, would give a more steady preparation than the folution of Mr. PLENCK; or when diffused in axunge, would afford a mercurial ointment which might eafily be prepared, and by the use of which, I could accurately afcertain the real quantity of Mercury introduced into the body.

And that both these positions are true, will appear from the medical effects delivered below.

Though Mr. PLENCK's chemical reafoning is founded on erroneous principles, yet it must be allowed that his method of giving Mer-G 6 cury, cury, is attended with many advantages: falivation, though fometimes produced by it, is lefs violent, and more eafily conquered : the powers of digeftion are not in any degree impaired, and the most frequent evacuation which follows its use, is an increase of urine. The faline preparations never agree with weak ftomachs, they are apt to gripe, they very frequently excite a fever, and from the small quantity of Mercury which can be fwallowed in the form of corrofive sublimate, that medicine in general rather gives a palliative than a radical cure; at the fame time, it must be owned, that there is a necessity for having recourse to some variety of preparation, because I have seen symptoms which were truly venereal yield to one preparation, and not to another. In general copper spots on the face, and and other venereal eruptions on different parts of the body, yield readily to corrofive fublimate, whofe operation feems chiefly directed to the fkin; yet even after they are to all appearance gone, unlefs a larger quantity of Mercury is introduced into the conflitution, a radical cure is not effected.

I have known patients, who have had violent fevers excited by Mercury applied in the form of unction, bear the corrofive fublimate with impunity; and I have known feveral cafes where inflammatory fymptoms, arifing from the ufe of Mercury, were removed, by drinking large quantities of the mucilage of gum arabic, the decoction of barley, and the like: fo that there feems to be an advantage in combining the gum arabic with Mercury, though not explicable on Mr. PLENCK's prin-

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principles. An eminent furgeon affures me that he can moderate any falivation by the internal use of gum arabic; and VAN SWIETEN is very positive in ordering barley-water along with his sublimate corrosive.

It has been long admitted as a fact by physicians, that when Mercury is triturated with fulphur in the form of Æthiops mineral, it is in a great measure deprived of its power of acting: and after I was entirely fatisfied, from a variety of trials on the human subject, of the accuracy of this observation, I proposed to make a chemical enquiry into the state of the case. After triturating one part of Mercury with two of fulphur, into the form of an Æthiops, I could obtain no separation of it from the fulphur, but by having recourse to the application of a third body, with which the fulphur had a fuperior degree

gree of attraction, fuch as alkaline falts, calcareous earth, iron and fome other metals; the Mercury by a fhort triture loft its globular form, and was deprived of the power of tinging. gold; all these afforded me fufficient proofs of the Mercury's having united with fulphur by attraction in the way of chemical mixture, by which its power of acting is diminished : in the fame manner when an acid is united with an alkali in the form of a neutral falt, its properties as an acid are destroyed, it can only be separated from the alkali by elective attraction, and a tertium quid (in the language of chemistry) is produced. A certain degree of faturation takes place in the combination of fulphur with Mercury; for if more Mercury be employed than faturates the fulphur, the remaining quantity will be diffused in the æthiops as an aggregate:

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gate body, and afford a combination of real efficacy.

I have frequently prefcribed fulphur to moderate a falivation, but with very little effect; it can hardly be expected that the fame chemical combination will take place in the human body, as by triture may be effected out of the body. I shall not at prefent make any observations on the other preparations of Mercury, referving these for a future occasion; but will subjoin a few cases, which have come under my own observation; and fuch others as have been communicated to me by my friends, have tended to conform me in my opinion of the advantages arising from this perparation.

CASE I.

A married lady (whofe hufband had been frequently affected with 3 venevenereal fymptoms) complained of pains in her bones, more efpecially in those of her arms and legs, and chiefly feated in their middle; they were always increased by the heat of the bed: copper-colour'd spots appeared in different parts of her body, more especially, however, on her forehead and arms, and a large node was very perceptible on the tibia: without giving the difease a name, either to the husband or the lady, I proceeded on the supposition of its being venereal.

I ordered her to take Mr. PLENCK's folution, by ufing, however, double the proportion of gum arabic which he prefcribes; and after the ufe of two fpoonfuls of it morning and evening for the fpace of a fortnight, the pains entirely left her; the fpots and the node ftill continued; the former however was more obfcure, and the latter latter more moveable; I rubbed a fmall quantity of mercurial ointment on the node, and by the internal use of the mezereon, and the gummy mercurial folution, in the space of a month every symptom difappeared.

Notwithstanding this lady being of an irritable habit, and subject to flatulent and spasmodical complaints in her stomach, her appetite, during the use of this medicine, was confiderably increased, and the only fensible evacuation it produced was by urine.

CASE II.

A young gentleman, without a preceding gonorrhœa, was affected with shankers on the prepuce and glans, and had a bubo in his groin, much inflamed, and advancing fast to [163]

to a state of suppuration; he applied to a furgeon, who fuggested the neceffity of promoting the fuppuration, * as the only poffible means of evacuating the venereal virus; accordingly he confined the patient in a warm room, allowed him to indulge freely in a full diet, and he had recourfe to mercurial unction : the gentleman being feized with a fever, I was fent for, and he communicated to me his venereal complaints. His pulse was quick and hard; he complained of pain in his back, head-ach, thirst, and other fuch fymptoms as I had frequently seen arise from a mercurial course conducted on the plan here preferibed.

I ordered him to be blooded ad Zxij. to omit his unction, to drink large quantities of a folution of gum arabic in water, and likewife ordered him a purging mixture

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ture of foluble tartar and manna; his fever left him next day, but the fize and inflammation of his bubo still continued, and was fuch, that he could not walk. I was defirous of refolving this tumor, if poffible, from having very often feen ulcerated bubos suppurate unkindly, though opened by and under the direction of the most skilful furgeons. I ordered three leeches to be applied on the part, by which means a confiderable quantity of blood was obtained, the throbbing pain and tenfion much abated; I omitted the use of the Mercury for a few days, because I suspected that it had contributed to bring on the former inflammatory fymptoms, which would have accelerated the suppuration. I then had recourse to Mr. PLENCK's medicine, with an anti-phlogistic regimen; I allowed the patient to walk out; out; I defired that he might keep himfelf perfectly cool; and by purfuing this plan for a fortnight, he became perfectly well, and the tumor difappeared. I ordered the fhankers to be dreffed with an ointment prepared of two parts of unguentum fimplex, to one of calomel, and they were readily healed.

I have, in a variety of other cafes, found this ointment the most efficacious of any; it will frequently heal shankers, though the venereal virus be still in the constitution, but we are, by no means, to trust to it alone in such cafes.

CASE III.

A gentleman, who had fubmitted to repeated falivations for a fmall ulcer on the uvula, which he fufpected to be venereal, applied to me for farther

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farther advice. Upon enquiry I found that fome months before, he had fhankers, which gave way readily to an external application which he had got from a quack, and he therefore neglected the internal use of proper mercurials for the purpose of a radical cure.

He was of a delicate and irritable constitution, and half an ounce of mercurial ointment was generally fufficient to produce a falivation; during the falivation he was fubject to a diarrhœa, for which his furgeon had ordered him opiates; his mouth and fauces were always confiderably inflamed, and fmall ulcers appeared on his lips and neighbouring parts, which were, however, only the effects of the Mercury; the original ulcer still continued in the fame state. When I faw him he was fo emaciated, that I did not think it proper to put 3

put him immediately on a mercurial course, though I was convinced that Mercury was the only medicine which could cure him.

I therefore omitted his mercurials for a week, encouraged his living on a full diet, and recommended exercife in a chariot. After he had acquired fome strength by these means, I prescribed Mr. PLENCK's folution, which in the fpace of a few days began to affect his mouth; I then omitted it, and ordered him to drink freely of a folution of gum arabic, till the mercurial tafte and spitting were gone: I returned him to the use of Mr. PLENCK's medicine, and allowed him to go abroad in the open air, advising him not to keep his throat warmer than in health; he then perceived no falivating effects from it, and in the space of a fortnight was entirely cured.

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There is nothing tends to promote falivation fo much as warmth, efpecially the wearing of flannels about the throat; and as Mr. PLENCK, VAN SWIETEN, and many others have fufficiently explained the many inconveniencies arifing from that evacuation; and that it conftantly retards a cure; I endeavour on every occafion to avoid it.

A gentleman of my acquaintance was under the care of Mr. KEISER at Paris, for the cure of the lues venerea; he confined himfelf to the houfe, and encouraged warmth, efpecially about his throat; he lived on a low diet, and a falivation was about to come on, which, however, was prevented by Mr. KEISER's advifing him to lay afide his flannels, to walk abroad, and to live as ufual.

The

The following cases were communicated to me by a Physician :

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A gentleman applied to me with ulcers in his throat, a difficulty of fwallowing, and a fwelling of the glands of his neck, which I fufpected to be venereal from his having a gonorrhœa, attended with a very virulent difcharge; the inguinal glands were confiderably enlarged and painful.

I began, by giving him two fpoonfuls of the arabic folution morning and evening; it neither griped him or made him fick; and though he could not perceive any fenfible evacuation from it, in two days the forenefs of his throat, and difficulty of fwallowing, were confiderably relieved; in the fpace of three weeks all his complaints left him.

A delicate young married lady, complained of flying pains in her H bones, bones, which were evidently worfe during the night-time; eruptions alfo appeared in different parts of her body, for which fhe had taken a variety of medicines, by the advice of an apothecary, without receiving any benefit; they were now become large blotches, of a copper coloured appearance, and the pains were more fixed, especially in her forehead, where there was a lump or swelling, which seemed to be a thickening of the periosteum.

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I communicated to the hufband my fufpicions of its being venereal, reminding him, however, that he was under my cure for a venereal complaint in his mouth, immediately before his marriage; and as there was no reafon to fufpect the virtue of his wife, that accounted for the infection. He was defirous of the cure being kept an entire fecret from his wife; and and I therefore prefcribed Mr. PLENCK's medicine, and the began with a fpoonful of it morning and evening, which I foon increased to two spoonfuls, and ordered her to rub the pained and tumified part on her forehead, with an ointment of pomate, camphor, and calomel, and to touch the copper-colour'd spots with it when fhe went to bed. It was furprizing to observe the sudden good effects; the very first dose seemed to relieve her; she daily recovered her spirits, her complexion, and even her appetite; she suffered no confinement, nor did the medicine ever affect her mouth; in about fix weeks the was entirely cured.

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There is no internal mercurial fo well adapted for the cure of the gonorrhœa as this; and, where injections are employed, its internal ufe fhould conftantly accompany them; H 2 it it very effectually abates the ardor urinæ, which it does partly from its acting as a mercurial without inducing inflammation, and partly from the gum arabic accompanying it.

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From these and a variety of other instances which I could mention, I was sufficiently convinced of the efficacy of this preparation of Mr. PLENCK's, and that it had even advantages over most others. However, I confidered it as still subject to the inconveniency of being unequally prepared at different times, from the impossibility of ascertaining the degree of triture employed, on which its efficacy so much depended.

I therefore had recourfe to the precipitate from calomel, after finding out, by experiment, that it was the fame in every refpect with the greyish powder obtained by triture, on which the medical virtues of Mr. PLENCK'S PLENCK's medicine and all mercurial preparations diffused in dry powders or viscid substances seem to depend. By having such a powder, which might at pleasure be mixed with gum arabic or honey, for an internal medicine, or in axunge for an ointment; the dose of the mercury could be readily ascertained; and such variety as would then arise in its action, could only proceed from a difference of confitution in the patient, or of symptoms in the difease.

As two drachms of Mercury, by a long triture, yielded gr. xij. of this powder, and as I generally directed a patient to take that quantity of Mr. PLENCK's medicine in the fpace of four or five days, I regulated the dofe of this powder, in much the fame manner, and diffufed gr. xij. of it in a mucilage confifting of Zij of honey, and two of gum arabic; which being diluted

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diluted in the fame manner as that of Mr. PLENCK's, was taken in the fpace of four days; fo that the patient took gr. iij. of this powder in a day; and in a variety of venereal complaints I found it in every refpect as efficacious as Mr. PLENCK's folution confifting of two drachms of crude Mercury.

This preparation from calomel is infinitely more active and foluble than most others: on taking the fmallest quantity into the mouth the braffy taste is immediately diffused; and if gr. iiij. is taken for a dose without dilution, it occasions sickness at the stomach, and sometimes purges.

It produces the most immediate effects on the constitution, it conquers the venereal virus in the most remote parts of our system, and no confinement is necessary during its use.

By

By taking half a drachm of this powder, and diffufing it in an ounce of axunge, a ftrong mercurial ointment is prepared, which falivates readily, and proves equally active with the fame quantity of mercurial ointment made by ufing $\frac{1}{2}$ fs of quick filver *.

From these experiments and obfervations it appears, that the most fafe and efficacious way of giving Mercury internally, is by diffusing it in gum arabic, honey, or other viscid substances; that its action then depends on the quantity of triture which has been employed, by which a greater or less quantity of it undergoes a change, which seems to be a degree of calcination: it is likewise

* Since the publication of the Second Edition of this Appendix, I have recommended Mereurial ointment in the proportion of 3j of this Powder to one ounce of axunge.

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proved, that Mercury may be made to undergo this change by an eafier and lefs tedious procefs, as above defcribed; and that the powder thus obtained, will, when diffufed with gum arabic or oily fubftances, afford us preparations more fteady and uniform in their effects. I would therefore recommend it to furgeons and apothecaries to keep this powder prepared in the fhops, fo that it may be made up with gum arabic and honey into the form of pills or draughts, or with axunge into the form of an ointment, to be ufed occafionally *.

* As all metallic præcepitates are difficultly fufpended in a fluid, it is probably better to preferibe this powder in the form of a pill or bolus.

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