PHILOSOPHICAL

TRANSACTIONS.

May 20. 1684.

The CONTENTS.

1. Two remarkable Cases relating to Vision, communicated to the Publisher, by the learned and ingenious Will. Briggs M.D. Fellow of the College of Physicians, and Physician of St. Thomas's Hospital, Lond. 2. The description and use of the Pores in the skin of the hands and feet, by the learned and ingenious Nehemiah Grew, M.D. Fellow of the College of Physicians, and of the Royal Society. 3. An abstract of a Letter from Mr. Anthony Leewenhoeck of Deltt, dated Sept. 17. 1683. containing some Microscopical Observations, about Animals in the scurf of the Teeth, the substance call d Worms in the Nose, the Cuticula consisting of Scales, 4. A Letter from Mr. John Collins to the Reverend and Learned Dr. John Wallis Savilian Professor of Geometry in the University of Oxford, giving his thoughts about some Description Algebra.

to the Publisher, by the learned and ingenious Wil. Briggs M.D. f. llow of the College of Physicians, and Physician of St. Thomas's Hospital, Lond.

Sr. Received some time since an account of a remarkable Case in Vision, from Dr. Peter Parham a worthy Physician in Norwich; which because it so rarely occurs, X and

and the like is mention'd but by few Authors, I imagin'd that the following Transcript of two Letters he was pleas'd to fend me about it, might not be unwelcom to you, and therefore I took this opportunity of conveying it to your hands.

First Let. 'I was lately in Suffolk, and there met with a 'pretty odd but curious case relating to Vision; which 'I thought then had something of Rarity, and continue 'still in the perswasion. A Gentleman gave me the History 'of it, and because his Servant, who was concerned in 'it, was then in the house, I had the opportunity fully to 'inform my self, and if there be any Questions you would

'have propos'd, Ishall shortly see him again.

'The Gentle nan propounded the Case himself, to know 'the Phylosophy of it, and what should be that particu-'lar Figure in his Servants Eye, that he should see so a-'cutely and strenuously in the day, and be just like a post ' fo foon as the Sun fet. The young man may be towards "20 years of age, and all the day hath as good a fight, if 'not better, than any of the family; distinguisheth at as 'great a distance any object; sees either nigh at hand or 'far off, or any of the intermediate spaces as well as any body, and with as much vigour and unweariedness; but 'when twilight once comes, is (as the Proverb fays) 'blind as a Beetle; fees nothing; runs against Gates, 'Posts or Rails (any thing either higher, lower, or level to his Eye) and cannot without great difficulty direct Neither is all this from the want of any vi-'gorous influence from the Rays of the Sun, as I conceive; 'for when he is at home and in the house, he tumbles o-'ver Stools, runs his head against Doors, and cannot "fee or direct himself tolerably well either by the greater or leffer lights of the fire and candle; but commits 'pleasant mistakes, is apt to complement your feet as readily as present you steadily with a glass of Wine, 'runs his head against his Master's foot when he is to pull

off his Boots, and gives them some other diversions al-'terward about the Fire and Utenfils there, which cau-'feth variety of sometimes pity and other whiles 'laughter.

'I confess this odd and unusual case raised my curiosity 'to view the Boy well and to discourse with him; there 'is no disease in the Organ that can be observed; no Ver-'tigo or distemper in the head to interrupt or any way 'intercept the Spirits in their motions, but to all appear-'ance the fabrick of the Organ is very true and exactly

'well, and never disturbed with fluxes any way.

'I did observe the Eye both by day and night, but 'could not find fault with any part; neither do I think the suspicion well grounded, that he sees better than others by day-light, because of the vigour and plenty of Rays, for then he might have the same benefit from good ' fires and candles to invigorate the Organ, and contract 'the Pupil (for fo I suppose it is done, because the greater the Sun-shine is, the better those generally see that are 'short-sighted) but it seems rather to depend on some of the Humours, tho I can't tell at present on which, ha-'ving not had time fince to confider of it. I tryed him with Spectacles for variety of fight, but they did him 'no service by either lights.

Second Let. 'I have had a further account of that odd case I acquainted you with in my last. and also received 'a Resolution of those Questions you propounded, which 'I now fend you: I have ranged the problems in the or-

'der they were fent me.

Qu. 1. 'Whether the person was so from a child, or any observable occasion? R. He was thus from the sirst time ' he was able to take notice of things, and it came without Distempers.

2. 'Whether any cloudiness at night falls gradually 'upon him like a Mist, or all at once when Sun sets? To which he replies, that it comes gradually upon him as day light declines.

3. 'What effect the several Aspects of the moon have

'upon him? He says none, for he is always alike.

4. 'Whether he feels any pain by fire or candle-light?' he fa s not any.

5. 'Whether worse in the winter than summer? To 'which he says, he hath not observ'd any difference.

6. 'Whether upon taking cold he be worse? he says,

'he never observ'd any mischief by cold.

7. Whether he sweats much at any labour, and so grows 'worse upon any sudden stopping of the pores toward 'night? R. He sweats much at work, but finds no incon'venience, neither observes any difference as to his fight in those days when he works hard or not.

'So that if you take this account as a true and plain 'Narrative without any artifice, it may be judg'd veryrare, 'and is the first case I ever knew of the like kind. I rest. &c.

Thus far the diligent Observer in his account of this unusua! case, which I forbear giving you my thoughts upon at present, reserving them for another occasion; and this being fo extraordinary an indisposition of the Eye, it may very well deserve a more particular confideration in the Pathology of that part, which I formerly intimated my intentions one day of publishing. And now I have the opportunities of making more frequent Observations in the Distempers of that part, which I then thought requisite to so great a design (and which were since put into my hands, by the exceeding bounty and favor of his most Gracious MAJESTY, as I must ever own, when he was pleas'd of late to place me in the care of one of his Ho-(pitals here) I thin my felf in a double manner oblig'd to profecute a subject, which may be of so great importance to the world, and should gladly receive any account relating to it.

The case now mention'd (though indeed in a different

fense from that of a. Hippocrates) is call'd by later Writers Nyctalopia or Nocturna Cacitas, and is accordingly described; with the Remedies for it, by b. Galen, c. Pliny, d. Forestus, e. Sennertus, and f. Joel; to whom I refer the Reader. Cornelius Celsus, (de Medicin. lib. 6. cap. 6. §. 38.) mentions it under the title of Imbecilitas oculorum; but none of all these have given so exact and sull a history of it as will be found in the foregoing Relation.

2. To this unusual case I shall subjoyn, another relating to the same subject, which I lately had the opportunity of observing here in St. Thomas's Hospital, together with my worthy friend Dr. William Dawkins (whom I have the happiness to be joyn'd with there) in a Patient

we had for some time under our hands.

The case was this; Daniel Wright aged about 19 years, of a fanguine and plethoric Constitution, about the end of the year 1683. was feiz'd with a dizziness and pain in in the upper part of the head, which he told me he could impute to nothing but the excessive cold weather, which then raged with us to extremity. Hereupon having the misfortune to apply himself to an ignorant Pretender to Phylick here, a Plaister for his head was only order'd at that time (without any evacuations) but whether it was the Empl. cephalicum cum euphorbio in the Dispens. or any other I could not learn. The Patient upon this grows much worse, the pains of his head more fixt and girding (I suppose from some Spasms or constrictive Motions of the Meninges) to which succeeded convulsive Fits (which were accompanied afterwards with a Tremor upon his Arms and Legs) and upon this all Objects appeard double to him, from the fibres of the optic nerves being thus difforted from their wonted Parallelism. After this poor young man had been thus tortur'd by his Empirick, and this Distemper for about 3

a In Porth 1. l.b. 2. §. 40. b Ser Galende Ocul. Part 6.cap. 10. c Plin. nat. hif. lib. 8. cap. 50. d Foref. lib. 11. abferv. 38. e Sennert. lib. 1 part. 3. feet. 2.cap. 44. f Jeel practic. lib. 2. Seet. 1. §. 10.

months, he was taken in as a great Object of charity into our Hospital. Upon his admission I examined his case as particularly as I could, and judg'd (by his seeing all things double thus) that the Optic Nerves were affected, and that it was gone so far that it would probably end in a gutta screna, and accordingly it fell out not long after his being in the Hospital; which confirms me in the Opinion about Vision I formerly communicated to the R. Society. c

In this difficult and extraordinary case, where the Patient had been to long afflicted, and the Fits grew daily worfe upon him (fo that he had feveral in a day, which he told me made his Life so uneasy, that he did not care what was done with him) we endeavoured by all ways we Accordingly we order'd the Cecould to relieve him. phalic Pills, and an Electuary (which we use in the Holpital in Epileptic Ca(es) which he received much benefit by: he was also (by intervals) bled in the Jugulars and in the Hamorrhoids and by Leeches which also gave him good relief; his head was shaved, blisters applyed to his Neck, and a Seron made sometime after, &c. we endeavouring by all manner of Revulsions to derive the humour another way, if it were possible; but it was too much fixt, and of too long standing, so that about two months after he had been under our care (and now and then not without some prospect of Relief) a Gutta Serena seiz'd on his right Eye, that he could not fee at all on that fide; but then the duplicity ceas'd and he saw all Objects single again as before, which is another confirmation of the foremention'd Opinion.

In the mean time the left Eye being still in danger, we further order'd (besides the continuance of the former Electuary) a Fontanel about the meeting of the Sagittal and Lambdoord Sutures, and Cupping-glasses to his Neck and Shoulders, that nothing might be left unat-

[565]

tempted that we thought requisite; but it seems these last were omitted, and whilst we were thus solicitous about preserving his tother Eye a severe Fit seiz'd him, soon after which he died. I hapned the day after to be with a Patient out o'th town, and not having timely notice of his death I mist the opportunity of opening the Body; but I was told that in the upper part of his head, neck and shoulders, a great blackness appear'd not long after he was dead (from the settling of the blood I suppose in those parts) which shews that what was last order'd, which was for several days before his death, had been very proper in this case.

What fuccess the Trepan or Salivation might have had here we did not try; tho the former where there is any discharge of matter, and the latter in venereal pains of the head I know succeed well; but these were not chiefly no-durnal, and the Patient (whenever I prest him in the thing) profest to me the contrary, and seeing him so willing to do any thing for a Cure, and being a very sober temperate Youth, I had no reason to suspect him; and indeed he never suffered much of those severe and

girding pains but when his Fits were upon him.

Thus, Sir, have I fent you a plain Narrative of this extraordinary Case, hoping you will excuse the careless and un-studied dress 'tis sent in; whereby you will further oblige

SIR,

Your very humble Servant

William Briggs.