A code of medical regulations, for the Honorable East India Company's establishment of surgeons, belonging to the Presidency of Prince of Wales' Island, Singapore, and Malacca. / drawn up at the express desire of Government, by W.E.E. Conwell.

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CODE

OF

MEDICAL REGULATIONS,

FOR THE

HONORABLE EAST INDIA COMPANY'S

Establishment of Surgeons,

BELONGING TO THE PRESIDENCY
OF

Prince of Wales' Island, Singapore, and Malacca,

DRAWN UP AT THE EXPRESS DESIRE OF GOVERNMENT,

BY

W. E. E. CONWELL, B.L.A.B & M.D. of Paris,

Surgeon on the Madras Establishment, Member of the Royal College of Surgeons in London, Corresponding Member of the British Imperial Vaccine Institution for India, and Officiating Staff Surgeon, Madras Troops.

"SIT LUX," GEN. 1, v. 3

SINGAPORE MISSION PRESS.

1828.

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Extract from the Minutes of Council

No. 66

GENERAL ORDER

BY THE HON'BLE THE GOVERNOR IN COUNCIL

Fort Cornwallis 27th November 1828

THE HON'BLE THE GOVERNOR in Council is anxious that the History and treatment of the Endemial diseases of the day should be fully and faithfully recorded by the Medical servants of Government, as a part of their public duty, of which their immediate ministry on the sick, only, takes precedence.

He trusts that the professional servants employed under this Government will henceforward (by an accurate discharge of that part of their duty) transmit the information progressively derived from experience, to future periods, for the prevention of public and private calamities.

Doctor Conwell will be pleased to submit to Government forms for Medical records arranged in detail calculated to effect the objects contemplated by this order; to ensure regularity in every branch of the Medical Department; and which, by keeping the labours of all its members constantly in a course of review: will serve the Government at all future times as an Index and a scale, of the merits and talents of its Medical Servants.

(A TRUE EXTRACT)

(Signed)

J. ANDERSON

Secretary to Government

HIS EXCELLENCY

THE HONBLE R. FULLERTON ESQUIRE GOVERNOR IN COUNCIL,

Of Prince of Wales Island Singapore, and Malacca, HON'BLE SIR,

In obedience to the G O G. 27th, November last, I have the honor to submit a Code of Medical Regulations for your consideration and prolation, and I humbly and earnestly hope, they will compass and effect, the extended and laudable views therein contemplated.

The Chief innovation proposed is the annual publication of a Medico chirugical analytical review, which by keeping the practice of the profession before the publick, will ensure the constant exercise of all the energies and talents the Department possesses in the cause of suffering humanity, and it will transmit to posterity useful facts that would otherwise perish with their authors.

I humbly submit that the expence of the few copies the Government may require, is quite trivial, compared with the illustrious objects that course is calculated

to accomplish.

I have the honor to be,
Honorable Sir,

With profound respect,
Your most o edient and very humble servant,

(Signed,) W. E. E CONWELL, M. D.

Officiating Staff Surgeon of the Madras Troops, Serving at Prince of Wales Island, Singapore, and Malacco

PENANG.

Staff Surgeon's Office \\ 17th, April 1828

A CODE

OF

MEDICAL REGULATIONS

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PART I.

MEDICAL RECULATIONS,

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OF

Medical Regulations,

FOR THE

HON'BLE EAST INDIA COMPANY'S SERVICE,

AT

Penang and its Dependencies.

CHAPTER Ist.

SECTION 1ST.

1.—The Hon'ble East India Company provides Surgeons to afford professional aid to their Civil and Military servants.

Surgeons provided and paid by Govt.

2.—The Medical Department is divided into three classes. The Seniors, or first class, are, under different denominations vested with the superintendence and control of the other two branches; and, on all questions, generally connected with that Department, they are the advisers of Government.

Three classes of Surgeons, the first controls the two latter.

3.—The second and third classes consist of Surgeons and Assistant Surgeons, who are nominated by Government or other competent authority, to any specific charge or duty.

The 2d and 3d classes called Surgeons and Asst. Surgeons. They are bound to afford medical aid to all individuals comprised in their charge; they form strictly the efficient executive branch of the Medical Department; they make returns to, and are subject to the orders of the superintending or senior Surgeon.

Medical subordinate servants authorized. 4.—It has been found convenient to add a class of inferior servants, instructed in the sub ordinate and manual duties of that Department; they are designated Apothecary, Assistant Apothecary, Native Dresser and Medical Pupil.

Native Dresser, his qualifications. 5.—This term of Native Dresser is given to Natives, who have acquired some knowledge of preparing Medicine, Dressing wounds, and waiting on sick,

Medical Pupil, situation of, to whom given. 6.—Under this designation of Medical Pupil, the Government will eventually, at the recommendation of the Superintending Surgeon, receive well educated young persons, to be employed in hospitals under the Surgeons for a given period, until their acquirements warrant the Superintending Surgeon to recommend them as Assistant Apethecary.

Assistant Apothecary, appointment to whom given 7.—This designation of Assistant Apothecary is given to persons sufficiently educated in the English language, in the subordinate department of surgery, and in the preparation of Medicine, to receive the Surgeon's instructions on these subjects, and carry them into effect in all less serious cases; whereby the Surgeon's time is preserved to the public for more important purposes.

Apothecary, the situation to whom given 8.—This designation of Apothecary is a warded to the most intelligent and meritorious of the Assistant Apothecaries, after a considerable period of service, when they are placed in situations of increased respon-

sibility and interest; their duties, however, scarcely vary; the increased pay and rank is merely afforded in consideration of their lengthened service, and to reward their good conduct.

they are bound to about medical pid and

9.—The before mentioned subordinate Medical servants are all eligible to receive pensions, and they are subject to all other rule's litary. that affect the Military branch of the service? to which they invariably belong,

The foregoing Medical servants are Mi-

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only all mosterness apperior rank

CHAPTER 1st.

SECTION 2D.

Preliminary Statements of the Subordinate Grades.

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geons named by the Hon. the Court of Directors.

2 .- On first arrival, except in cases of On arrival to emergency, they are not placed in charge of be instructed an hospital, but directed to do duty under ment of Indianother Surgeon, until they have attained adequate experience in the treatment of oriental diseases (generally twelve months). It then becomes the duty of the Superintending Surgeon to report the young Medical Officer, as being, in his opinion qualified, both in a professional view, and in his knowledge of the regulations and usages of the service, to be intrusted with the charge of separate duties.

on the teatan diseases.

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duties un-

that rank.

promotion to

their having attained the experience and knowledge of several years active profes-The Surgeons changed by

sional service as Assistant Surgeons in India. 4. Their duties do not vary from those of Assistant Surgeons, but they are considered a more valuable, as a more experienced, and consequently more intelligent and useful class of Surgeons; and hence increased rank and pay is awarded them.

3 .- This designation or rank of Surgeon is

tain definite number of Medical officers, after

returns. Lagol Presidencies cers employ-Medical offi-

5.—Medical officers serving at Penang exem from any of the other Presidencies are to ob_ some mon po serve the forms and regulations of their respective Governments; but they are directed to make the local returns, prescribed by the present regulations, through their own professional superior.

CHAPTER 1st.

SECTION 3D.

Preliminary statement of the Medical Department in the superior grades.

Superintending Surgeon by whom appointed. watch over the interests of humanity and of the service.

This rank of Superintending Surgeon has been bestowed by the Hon'ble the Court of Directors on the Senior Surgeon, conducting the duties of control at Penaug. not being any professional authority superior to him under this Government; it becomes his duty to watch over all departments of Medicine and Surgery vigilantly, and all individuals of this department are subject to his orders.

2. It is his duty to inspect Hospitals, the He inspects books of Medical practice, &c. the Medicines and Surgical Instruments frequently, and to report thereon periodically.

Hospitals, &c.

3. Moreover, he is to collect all prescribed His duties farreports, to preserve them, to comment thereon, ther explainand forward such of them to Government, as may contain information of an urgent nature; and he is not only bound to watch vigilantly over the professional conduct of those in the executive department, but also to instruct them when necessary, regarding the discharge of their duties.

4. A Surgeon or an Assistant Surgeon selected by Government, may eventually be attached to his office as Secretary.

to be attached.

5. A systematic arrangement of Medical duties is detailed by Government to insure their being performed with exactitude, and to establish a system of uniform regularity in the Medical Returns, whereby the Government will become possessed of their just right, i. e. a Medical History of the times, for the progressive improvement of Medical knowledge.

Medical duties detailed for public convenience and utility.

6. All Surgeons or other individuals of the Medical Department belonging to this Presidency, are hereby strictly ordered to act in obedience to these regulations, and the Superintending Surgeon is specially required to use every exertion on his part, to give them full and perfect effect.

All Medical servants to act in obedience to the Medical Regulations.

7. Servants of Government in the Medical Department, like all others, are considered useful according to the scale of their duties, and the exactitude and talent with which they discharge them; moreover it is esta-

Official employment in. volves care and expence.

blished by ample experience, that all official employments involve not only increased responsibility and care, but also a necessary increase of establishment and expences.

Contemplated to recommend the Hon'ble Court to fix pay for each rank. 8. For these reasons, Government contemplates recommending the Hon'ble the Court of Directors, to fix an exact sum, as the net pay of each rank, at all times to be drawn by individuals of that grade, and when out of employ or acting under the orders of another Surgeon, that sum is to form their entire allowance.

Official pay,

9. When employed, or holding a separate charge, an additional allowance to be granted to each rank, under the head of "official pay."

CHAPTER 2D.

SECTION 1ST.

Executive Medical Duties.

Medical charge conferred by Government.

1. When Surgeons or Assistant Surgeons are entrusted by Government with a distinct Medical charge, they will be nominated thereto by letter, or in public orders by Government.

Public property and documents to be transferred with the charge of office. 2. In the transfer of duties from one Medical Officer to another, the transferring Officer is to present the relieving Surgeon all the public documents, and all the public property then in his charge annexed to the office, and he will also lay before him two lists of the documents, (vide Table No. 21), and two lists of the public property (vide Table No. 22 A, & B.)

3. The receiving Surgeon is to examine the documents and compare them with the list, and if certain that they exactly agree, he is to affix his receipt and official signature to the duplicate lists of public documents. In like manner, having examined and ascertained, that the lists of Medicine and other public property exactly correspond with the stock, he is to affix his official receipt to them. Those receipts are to be copied into their respective official letter books, and one copy to be transmitted to the Superintending, by the relieving Surgeon; the other, to be retained by the Surgeon relieved.

Surgeon granting the receipt responsible, that the public property corresponds there with,

4. European Medicines will be gratuitously issued on Quarterly Indent, passed by the Superintending Surgeon, from the Hon'ble Company's stores, agreeably to the present usage of the service.

Surgeons to be supplied with European Medicines on Indent.

5 Henceforward all Surgeons, &c. are required to be provided with the following Surgical Instruments at their own expence:—

They are to provide Instruments.

bulgical Instituments at their own expe	ence :-
6. Amputating Instruments,	1 case.
Trepanning ditto,	10,
Scalpels, 2 cases, or, Dissecting,	1 ,,
Pocket Instruments, Surgeons'	
Trocars, of sorts, No.	
Midwifery Instruments,	l set.
Stomach Pump, No.	and the second
Tooth Instruments,	1 set,
Lancets, Bleeding, No.	6
Metallic Bougies,	
Common Ditto,	1 "
Catheters, Male, silver,	3
Female.	2

Flexible Male,

London Pharmacopiæ, No. 1

The Instruments required.

pilidop Lemina

countries bane

7. All Medical Officers no w having Sur- Old Instrugical Instruments in their possession, the ments at half,

new at the re-

property of the Hon'ble Company, are permitted to retain them at half price, if they prefer to do so; but otherwise, they are desired to return them into store, and they will be supplied on Indent (passed in the usual manner) with new Instruments at the regulated price.

Surgeons to record their professional practice, and such record declared to be public property and claimed. S. Executive Surgeous are required, as and essential part of their duty to Government, to record their professional practice and proceedings, in the manner and forms herein aftern prescribed, and all records and documents written in the discharge of their professionall duties to Government, thereby become public property: they are hereby declared to be so, and ordered to be ultimately delivered to the Superintending Surgeon, or in event of his absence, to the next Senior Medical Officer.

Number and size of public Books.

* Holfghan of

9. The public books, which Surgeons in charge of executive duties are required tookeep, consist of five Fasciculi or Volumes; the first four of foolscap size, and the fifth of royal paper.

No.1 The Register.

10. No. 1, will contain a register of cases; on one side, agreeably to Table No. 4; on the other side, Weekly states, vide Table No. 3, and Present states, vide Table No. 2.

No. 2 The Journal.

11. No. 2, the Medico-chirurgical Journal of practice, is to contain an exact professional history of every case treated by the Surgeon, invariably to be written in the Surgeon's handwriting, who is actually in Medical charge, on foolscap paper and half margin.

To contain all cases, public and private.

12. This Journal or Fasciculus, is to contain a distinct statement of every individual's case treated by the Surgeon, including equally those whom he may attend as private:

patients, with those connected with or com-

prised in his charge.

13. In hospital practice the patient's name Name and is necessarily shewn at the commencement of the case; under all other circumstances a except those due regard to individual feeling and delicacy is to be observed, by the unvaried suppression cate cases. of the name and rank, unless where a sick certificate is granted; it will suffice, that the sex, age, &c. succeed to a blank line, where the name would otherwise have stood in the Journal, and that line, to be preceded by a numerical reference to the individual, of which the confidential Surgeon only, will possess the key.

Rank to be suppressed of Hospital &

14. No. 3, a book to contain copies of all Indents, shewing at the Expenditure, both of Medical and Commissariat supplies.

No. 3, The Indent Book.

15. No. 4, the Official Letter Book, to contain copies of all orders and instructions affecting that department, also letters received and dispatched.

No. 4, The Letter Book.

16. No. 5, a book, to contain forms and copies of all Monthly Returns, all Quarterly and Half-Yearly Returns.

No. 5, Copies of Returns.

Two little boards, not exceeding the dimensions of foolscap paper, and having each received. two corresponding perforations at one side with tapes passed through them, both ends of which tape are brought forward, and tied in front of the side opposite to that on which the holes are, will be used for the collection and preservation of public papers.

To preserve official letters

18. The Government will furnish blank books to Surgeons in charge, but in the absence of those books, the Surgeons are required to keep public records of their professional proceedings, on sheets of foolscap paper

The Government will furnish Blank Books to form records.

sewn together, each fasciculus to contain two quires, and they are permitted to send in contingent Bills to the Superintending Surgeon, for the amount of paper thus used.

Superintendto inspect books and instruments, to pass Indents.

18. The Superintending Surgeon is ing Surgeon is, inspect the Instruments and Books, at every official visit; and any Instruments that may be required, on Indent, passed by the Superintending Surgeon, are to be issued from the Honorable Company's stores, and paid for at the established rate.

CHAPTER 2D.

SECTION 2D.

Executive Duties, Continued.

Attendance to whom given.

Surgeons may attend private patients. but they must record the cases.

Surgeons are required by Government, to afford Medical aid to all persons comprised within the charge confided to them.

After Surgeons shall have afforded the requisite attendance to all individuals comprised in their charge, and recorded the cases in the Journal of practice, agreeably to the principles laid down, and that there is no public duty remaining to be done, they are permitted, in these cases, to occupy leisure time, in giving aid to individuals not in the service, on their own account; but they are bound to write a faithful history of every such case, agreeably to the principles now laid! down, into their Medico-chirurgical Journal, and they are not on any occasion, to neglect: public duty for such or any other purpose.

3. Where Surgeons have any public Hospitals to attend, the morning visit is invari-

Hospital visits at what time.

ably to commence before six o'clock; the evening visit to be between five and six.

4. Small pieces of Board, each larger Hospital tickthan a quarter sheet of foolscap paper, shall be suspended over each patient's cot in hospital, having a paper pasted on it, conveying the information required, agreeably to form Nos. 5 & 6 in the Appendix.

5. The cases are to be entered and continued, pursuant to the following form and principles: i, e. A concise clear History is to be entered in regular succession as follows, The date, name, age, what country, (if European) how long in India-physical description of the body-original habits-occupation-history of health and how long illfrom what cause—here detail all the symptoms now complained of; add the result of an accurate examination, including the functions, pulse, tongue, and skin, together with the information afforded by the thorax, abdomen, and countenance.

Mode of entering a case on reception.

6. A clear and analytical review of the Analysis of pathological indications thus established, will Diognosis. give the diagnosis; that word is to be written in large letters: and whatsoever is considered to be the exact point or points, in which the existing disease is situate, and the condition of that disease, the same is to be written opposite the word Diagnosis: then the name of the disease being thus pathologically established, it is to be written in large letters over the heading of the case-prescription for Medicines, instructions for diet, and any additional important directions are then to be written in succession.

the case gives

7. When indications warrant any modifi- Change of Dications or change in the Diagnosis, it is al-

agnosis re-

nation.

quires expla- ways to be entered under the respective date, between the statement of symptoms on which the alteration is founded, and the prescription for treatment and diet.

in cases of danger, symptoms and treatment to be registered daily. In trivial cases every 15 days.

8. If the case continues under the same treatment for fifteen days, during that period no new entry is positively required, provided it is not attended with any danger, but if it is attended with danger, the symptoms are to be noted daily. In the former instance, after fifteen days the symptoms are to be taken anew, followed by the Diagnosis and the necessary instructions for treatment.

Convalescent cases rank with trivial.

9. When a case shall have become convalescent, and is so recorded in the Journal. no subsequent notice of it is required until the name is struck off as recovered, unless some change takes place which requires new entry, or, more than fourteen days elapse.

Particular attention called to dangerous cases.

10. In cases of danger at every morning visit the Surgeon is to record what curative measures were adopted _what effects have resulted, state of the pulse, tongue, and skin, thirst, appetite, perspiration, evacuations, urine, sleep, general feelings, difference since last seen; the prescription for Medical treatment and the order for diet then follow. No new Diagnosis is required till the fifteenth day, provided there is no material change of treatment, and that it is still directed to accomplish the effects contemplated by the first prescription.

Change of treatment to be explained by a new state ment of symp-

11. Whensoever it may be deemed expedient to alter the prescription, or issue different instructions regarding the patient, the symptoms are to be taken anew, the change which suggests the alteration of treatment is to be stated, the Diagnosis recorded, and then

the new instructions for treatment are to be entered.

12. However trivial any case may be, the symptoms, Diagnosis and treatment must be entered every fifteenth day.

Fifteenth day symptoms must be stated anew.

13. Whensoever a case terminates fatally, if the examination of the morbid appearances can be obtained, an accurate investigation of all the viscera contained in the thorax, abdominal, cravial and spinal cavities is directed to be made, and a minute detailed statement of each particular part is to be written down progressively, by an amanuensis from dictation, as the observations are made; and this dissection is to be entered into the Journal, immediately following the detail of that individual's treatment.

Fatal cases to be examined if possible, and the dissection to follow the case in the Journal.

14. In all other cases where Medical officers may have opportunities to make post reported. mortem examinations, and in those connected with legal proceedings, the Dissection is to be made in strict conformity to the instructions and forms now laid down; and a copy is to be entered into the Medico-Chirurgical Journal.

All other Dissections to be

To prevent the possibility of misun- A detailed derstanding, detailed cases are attached, illustrative of the principles now laid down, and which Surgeons are instructed to observe for their guidance in their reception report, in the examination and in the general analysis of all the information resulting therefrom, when carefully contrasted with the history and treatment of the case.

case is attack. ed for guid.

CHAPTER 2D.

SECTION 3D.

Sick Diet and Hospital Arrangements.

Former diet Regulations cancelled, new established.

- I. All former regulations relative to victualling sick Europeans, are hereby cancelled, and the following Table is instituted to regulate the diet of soldiers, both of His Majesty and the Hon'ble Company's service in all Hospitals throughout Penang and its Dependencies.
- N. B. The Diet Regulations are made similar to those of Madras.

	Supper.	Dinner.	Daily allowance of Bread.	Breakfast.	Sunt										
	Sind and	0 900HO BE TO	Bread.	a line par	a suad you										
П	Tea or thick congee. One pint.	One 12 ton	Sec.	1000	of significant										
	ea or thick One pint.	ne pint of brot 12 ounces of ton or beef, ounces of rice b	wel	ne p	78										
П	nt.	of loces	ve O	int o	Full.										
П	cong	f brotl s of beef, frice bo	Twelve Ounces.	One pint of Tea.											
П	disiw . e an	One pint of broth and A 12 ounces of mut- ton or beef, four ounces of rice boiled.	25	ă .	y broth.										
П	The		227250	THE THE	#olf: v9										
П	The same as diet.	pint of broth, eight A ounces of Mutton or Beef.	Twelve ounces,	One pint of Tea.	Who half										
П	SA SA SA	of b	lve	pint	Half.										
П	in in	Mut.	uno	of	v.										
П	THE RESERVE OF THE PARTY OF THE	eig	es.	Tea.	A Stank as										
H		TOTAL CONTRACTOR	14	0	6										
Ш	ne s	Chicken, or one half Fowl, either made soup, or boiled, with a tion of rice and black per, in the form of pash.	18 AUG . 3	One pint of Tea, boiled Arrow I	1										
	ame	cken d, or of ri	Eig	ne pint of Tea, or boiled Arrow Root	Andrew Co.										
Ш	as t	n, or or either boiled rice and the f	Eight Ounces	of Te	Fowl.										
П	tirone en	one one r ned, which had h	unc	a, c	wl.										
Н	3 rea	Chicken, or one half Fowl, either made soup, or boiled, with a tion of rice and black per, in the form of pash.	es.	or of	3 - 1										
	kfas	the second secon	tage only												
	has Par	Hall	STATE OF THE PARTY	01											
	fast.	alf a Chicken or one third of a Fowl, made into soup, or one pint of sago.	Eig	ne pint of Tea, or of thin boiled arrow Koot.	enamplished										
П	ne a	Chic of of int	Eight Ounces.	nt of boi	Low.										
	s the	ken a o so of sa	unc	Tealled	w.										
	brea	or o For	es.	arr	P										
-	full The same as the Breakfast. The same as the break-fast. fast.	^ 1	H	thin One pint of Tea, or of One pint of Tea, or thin boiled arrow Ginger Tea, or thin koot.											
	he sa fast.	One pint of boiled Arrow Root, or four ounces of bread made into panada.	Left to the discretion of the Surgeon.	ne Gin boil	The Park Trees										
	ante	pint Rc es of	he S	pint ger ed A	S										
	as th	ne pint of boil row Root, o unces of brea into panada.	eft to the discre	of Tea,	Spoon.										
	e bro	ne pint of boiled Ar- row Root, or four unces of bread made into panada.	iscre	ne pint of Tea, or Ginger Tea, or thin boiled Arrow Root.	Name No										
	eak-	Ar- four rade	tion	ot. or											

2. DIET TABLE.

Explanations.

Tea, Arrow Root, or Conrast & supper.

3. The proportions of ingredients to a pint gee for break. of tea, are a quarter of an ounce of tea, balf an ounce of sugar, and a soldier's dram measure of milk. A like proportion of sugar and milk is to be allowed when ginger tea, arrow root, or congee are given for breakfast and Supper. Soles in strate stress

Barley broth.

4. Each pint of broth to be made with three quarters of an ounce of barley, and a due proportion of greens, onions, black pepper and salt. Greens to be omitted in the broth for such patients as they may not agree with.

Avequation Arrow Root &

5. In cases where arrow root or sago form Sago dinners, the dinner, the quantity ordered, may be either given at once or at different times in the course of the day, with a proportion of milk or wine at the discretion of the Surgeon.

Weight of flesh, meat & rice how understood.

6. The specified quantity of meat is to be understood to refer to its weight in an undressed state, including bones, and the broth is to be made from the quantity laid down in each diet. The quantity of rice to its weight before being boiled.

Extra diluents when given congee always

7. Toast water, barley water, milk and water, very thin arrow root, or other diluents will be furnished for common drink, according to the judgment of the Surgeon, in cases and forms of disease in which they are considered preferable to rice congee, which is to be kept in readiness at all times for the common use of the patients in general.

Fowl Dietand Low Diet why given.

8. The fowl diet and low diet of this Table, have been framed with the particular view of affording a proper diet for convalescents from acute diseases : much injury

business throat odd, of the

probably arises from patient's passing at once from spoon or fever diet to that of beef or mutton, and it is hoped that the present forms will be applied with a particular view to avoiding the risk of sudden changes in such cases.

9. The spoon diet introduced in this Table, is considered the most appropriate that can be used in the acute stages of almost all diseases, and it may be accommodated to particular cases of severe and lingering illnesss, by substituting rice or sago pudding, or some other extra for dinner, instead of arrow root.

Spoon diet may be changed to rice or sago pudding.

oth our do his in

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10. When it is wished to put any patient on a milk diet, this also may be done by ordering a pint of milk morning and evening, instead of the breakfast and supper, that are laid down in this description of diet.

Milk how given for breakfast & supper.

11. With these exceptions, it is expected that the forms of diet, here exhibited, will be undeviatingly adhered to.

These modifications considered sufficient.

12. The Hon'ble the Governor in Council is pleased to order, that bread and provisions of every description shall be furnished to the sick by the Commissariat officer.

Commissariat officer furnishes the supplies.

13. Should it happen on any occasion that the articles specified connot be procured, the best substitutes are to be provided in lieu of them, for the time; the circumstances which led to such substitutions being always particularly reported to the Superintending Surgeon, in the first instance, and by him explained to Government.

The want of articles specified to be supplied by the best substitutes.

14. Printed copies of the above Diet Table, with the explanatory remarks, are to be hung up in all hospitals, and renewed as often as may be necessary.

Diet Table & remarks to be exhibited in hospitals.

15. G. O. G. 18th December, 1827,—" All Europeans attached to the Local Military

Local European Military sick, and those of the Madrastroops subject to the same rules.

"Establishment of this Presidency, while sick in hospital, shall be clothed and victualled by the Commissariat, in the same manner as obtains with the European sick of the Madras Troops."

All others to be victualled by the Surgeon in like manner, at I sicca rupee per diem. 16. "Seamen of His Majesty's Navy, and "private Ships, will continue to be received "into the General Hospitals, under the existing regulations, but the per diem allowance granted to the Surgeon is fixed at (1) Sicca "Rupee."

Hospital Steward and Servants belong to the Commissariat Department. 17. "The hospital Steward and all other servants annexed thereto, are Commissariat servants, and their allowances will be paid by that Department"

CHAPTER 2D.

SECTION 4TH.

Explanation of the Records and Reports required.

The usual Report to be written on foolscap paper. 1. All nominal rolls of sick present and weekly states or other reports of sick, are to be invariably written on entire sheets of foolscap paper.

Surgeons weekly states. 2. Surgeons of the executive branch will keep the Officer at the head of the Department informed of their proceedings, by forwarding Weekly States every Monday morning agreeably to Table No. 3.

Monthly Return of Vaccination and Variola. 3. A monthly return of Vaccination and Variola will be made agreeably to the prescribed form, Table No. 9 & 10.

Forms of

4. The Monthly Return is to be compris

ed in the Tabular Forms, No. 8 B, 9, 10. 11, Monthly Re-12, and I3; and Surgeons will despatch this Return on the 2d of each succeeding Month,

5. Tabular forms No. 17 and 14 respecting Commissariat Supplies and Expenditure are always to be sent separate. The Superintending Surgeon having examined these reports and affixed his opinion thereto, he will transmit them to the Commissariat Officer.

Expenditure of Wines to to be separate and ulteriorly transmitted to the Commis-

6. No. 16 being the return of expenditure of Medicines, is to be invariably separate; and the Superintending Surgeon having affixed his signature thereto, he will transmit the same to the Medical Store Keeper.

Expenditure of Medicines to be ulteriorly sent to store-keepes.

7. Should any loss appear in either case, the Commissariat Officer or Medical Store Keeper, as the case may be, will make out a or Commissa-Bill against the Surgeon, who may have occasioned the loss, and the same is to be sent to the Superintending Surgeon, provided, he concurs in the view taken of the case; he will countersign and return the Bill. It is then to be transferred to the Paymaster and directed to be recovered from the next issue of pay to that individual.

Surgeons and Assistants pay for Medicines riat supplies when lost from their charge.

8. A Quarterly Return is to be furnished Forms of in the forms, vide Tables 23, 15, 14.

Quarterly Re-

9. The Half Yearly Return is to be constructed by the Tables No. 17, 16, 23,

Forms of Half Yearly Re-

10. The Monthly, Quarterly, and Half Yearly Returns under the head of Miscellaneous Observations are to contain : first, a general review of the Weather during the period the Return embraces, followed by ob- encing health. servations on the effects such states of the weather appear to have exerted either in the production, or on the course of disease or health. Any other general causes that had

Miscellaneous observations consider the weather and other general causes influPathology & Rationale of care called for

On granting Sick Certificates or transfer of sick, a copy of the case extracted from the Journal to be furnished.

Certificates to be countersigned by the supe intending Surgeon.

Individuals applying for leave forward the certificate to Goyt.

Explanation of Returns.

effects in influencing health, are to be stated.

- 11. A rapid view of the pathology of the principal diseases, followed by the indications of cure and rationale of Medical treatment, will close these observations; but this and all other original professional writings are invariably to be written half margin.
- 12. In cases where it may be necessary to grant a sick certificate to an individual in the public service, the Surgeon is directed to furnish the patient with a copy of the case extracted from the Medico-Chirurgical Journal, together with a certificate in one of the prescribed forms, vide Appendix Tables 18, 19, 20, and the Surgeon is to present a duplicate copy of the case and certificate to the Superintending Surgeon, written on foolscap and half margin.
- 13. Surgeons granting sick certificates to Local Servants are to have them approved and countersigned by the Superintending Surgeon, or in the event of his absence by the next senior Medical officer on the spot.
- 14. An application for the leave recommended is then to be made to Government on part of the sick, accompanied by the Medical certificate, and in event of the Superintending Surgeon's absence, the Medical officer in charge is to transmit to him a copy of the case and certificate.
- 15. Medical officers whose charge may not involve the receipt of Commissariat supplies, as detailed in certain of the foregoing Tables, their Returns are not to include those Tables comprising Commissarit supplies; but all Medical officers holding any chatge whatever, are required to make the prescribed periodical Returns.

CHAPTER 3D

SECTION 1st.

Correspondence.

A PART THOUSAN

1. G. O. G. 17th, December 1827. "The Superintending Surgeon being a local Medical officer of this Government, is directed to with the Goobserve in his correspondence with Government the following rules.

Superintending Surgeon corresponds vernment.

2. " On all subjects relative to the charge, custody and issue of Medical stores, disbursements of money on Local account, and Civil establishments generally, that officer will correspond direct with Government.

When direct.

3. "On all matters connected with Military duty or establishments, he will correspond through the channel of the Officer Commanding the Troops."

When thro' the Officer Commanding the Troops.

4. "The like rule will be observed by the Medical officers, serving on the Local Malacca. establishment at Singapore and Malacca, in respect to their correspondence with the Resident Councillor."

Surgeons at Singapore &

5. Medical Officers at Singapore and Maacca will discontinue sending their papers direct to Government, or doing so by the intervention of the Resident Councillor : and they will make those communications to their professional superior : but the Resident Surgeons will submit such copies of their Indents and public correspondence to the respective Resident Councillor as he may require for his information.

Residency Surgeons channel of correspon-

6. Members of the Medical Department Channel of are to correspond direct with the Superin- dence. tending Surgeon. At remote stations the en-

velopes of their public letters will be signed by their Civil or Military superiors.

Channel to communicate claims.

7. All Indents for Medical supplies, statements for the support of claims, to recover expences incurred in cases of extraordinary sickness, are to be submitted through the Superintending Surgeon; those of the Military branch, forwarding theirs through their own superior to the Superintending Surgeon.

Medical officers addressing Govt. 8. When a subordinate Medical officer desires to bring any circumstance to the notice of Government, it is to be expressed in an public letter addressed to the Superintending; Surgeon, with a request that the subject may be submitted to the notice of the Hon'ble the: Governor in Council.

Supg. Surgeon forwards the address. 9. The superior Medical officer is to forward a copy of that letter, with one also from himself, addressed to the Secretary to Government, conveying the opinion his experience enables him to form on all the relative merits of the question.

Superior Medical officers opinion required on all subjects that pass through his office.

13. This course is meant to secure the entire correspondence of the Medical Department with the Government office, invariably passing through the hands of the chief Medical officer, whose attiention to, and experience in that branch for a series of years, render him conversant with its usages, regulations, the course of its duties, and the merits of questions pending on professional considerations; and hence the Government desire to have the advantage of his opinion distinctly, on all subjects connected with his Department.

bly permitted to forward any official document to Government without passing an opinion or remarking thereon.

Supg. Surgeon invariably to give his opinion,

12. Besides the official correspondence already contemplated, the Superintending Surgeon is authorized to correspond with Medical rally. officers of this Presidency generally, on professional subjects under an official euvelope.

ponds gene-

13. All official letters are to be written on entire sheets of foolscap paper, and at least one quarter as a margin left blank, unless the letter is accompanied with opposed comments or extracts, in which case the letter occupies one half of the page, and comments the other half.

General forms of public let-

14. Public letters commence by reciting the station and date to the right; lower on the page and to the left the name and public official designation of the individual addressed, the prefatory style of Sir suffices for all ordipary ranks, and the proposed object of the letter is then to be introduced.

Manner of commencing public letters.

15. Public letters are to be invariably Manner of terminated in the following ceremonial form.

concluding public letters.

I have the honor to be, Sir, Your most obedient Servant.

Here enter the signature and official employment, vide Appendix Table No. 26.

16. It remains to be observed, that indiriduals recently arrived in the country, should mors, woid engaging in official correspondence on local affairs, until observations shall have aught them the leading principles of the egulations and usages of the service.

Caution to Ju-

CHAPTER 4TH.

SECTION 1ST.

Examination, Reception, and Preservation of Medical Stores.

Medical storekeeper responsible.

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1. The principal depot for Medical stores, is to be, as heretofore, at the principal seat of Government, under the charge of a Medical officer, who is responsible for the bestowing his time, care, and exertions in the safe custody, the due arrangement, and the careful preservation of all the Hon'ble Company's property confided to his charge.

Medical store keepers responsibility for safety of stock 2. The Medical store-keeper is farther held responsible to keep himself well Informed of all circumstances and all questions connected with the custody, the preservation, the issue, supply, and transport of Medical stock. He is to be in constant communication with the Superintending Surgeon on those subjects, especially, where he entertains any doubt, or apprehends any difficulty.

Establishment of the Medical stores at Penang.

- 3. The following is considered a sufficient establishment for the Medical Store Department at Penang—
 - 1 Medical Store-keeper.
 - 1 Assistant Apothecary.
 - 1 Medical Pupil, or writer.
 - 2 Chinese or other Coolies to work in the Stores, at 6 Dollars each.

Certain articles to be prepared in store. 4. Such articles as can be prepared on the spot, with much greater advantage to the public, than they could be drawn from Europe, may be so prepared under the instructions of the Superintending Surgeon.

5. The following is the manner and form

The stores

transferred by a Committee.

to be observed in the transfer of the Medical Store Department from one to another individual. The order of Government having been issued for the transfer, the Superintending Surgeon is to order three individuals the most competent in that department to form a Committee, and he will instruct them to assemble at a certain hour on a particular day at the Medical Stores, for the purpose of taking Stock, by minutely weighing, measuring, and examining all articles borne on the face of the Medical Store-keeper's stock book.

6. The Medical Store-keeper originally in Transferring charge, and the individual nominated to receive charge, are to be present; they are not o form members of the Committee, but their signatures are required to its proceedings as assenting witnesses to their accuracy.

7. This Committee is to inspect every article in succession, as borne on the face of he stock book, and after due examination, to tate the quantity and quality of all articles emaining. This Committee is to continue ts labors from day to day by adjournment, ntil all the business is gone through, but hey are never to separate earlier than 'clock, olding

They are to inspect and examine stock till 2 o'clock.

and receiving

officers sign with the Com-

8. All damaged articles of Medicines are be put aside each day, and at the hour of Gournment the Superintending Surgeon will ceasionally visit the Committee, that he may spect the damaged articles, and with his oncurrence, the Committee are directed to estroy them wholly in the Superintending urgeon's presence, and to note the same own in their proceedings.

Damaged articles to be destroyed.

9. The Committee having gone through the To transmit camination of all stock, &c. found in store, the Commit-

proceedingsof

tee to the Superintending Surgeon.

they are to make a detailed explanatory statement of their proceedings to the Superintending Surgeon, and to afford him such supplementary information as he may eventually require.

Superintending Surgeon communicates the proceedings with the recently appointed store keeper's receipt to Government,

d stecesting.

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mit a detailed report of the Committee's proceedings to Government, bearing the recently appointed Medical store-keeper's receipt pre-fixed to his signature, a second time added thereto, in acknowledgement of his having received charge of the Hon'ble Company's Medical stock, &c. registered on that schedule: finally, the Superintending Surgeon will affix his signature and add such observations as he may deem expedient.

CHAPTER 4TH.

SECTION 2D.

Records, Returns, Indents and Committees for Medical Stores.

Medical storekeeper to keep public records, and at the Presidency to submit them monthly to the Superintending Surgeon.

1. The following are the public books required to be kept in the Medical Store-keepers Office at each settlement; and at Penang he is to present them at the Super-intending Surgeon's Office on one day in every month, for his inspection and signature. The day is to be named by the Superintending Surgeon.

Public Book No. 1, to govern eventual sales, 2. No. 1, a book shewing the receipts, quantity, actual cost in English currency, and the calculation also into the local currency to govern eventual sales.

3. No. 2, a book shewing the amount of Issues Quarissues and sales, and the residue quarterly. The proceeds of sales to be distinctly shewn, with a reference to the Treasurer's receipt for each quarterly payment.

4. No. 3, a book shewing the balange of Annual ba-

receipts and expenditure of stock.

5. No. 4, a Letter Book.

6. No. 5, a Bazar book shewing the trifling purchases authorized by the Superintending Surgeon, which form the Monthly

Contingent Bill.

7. With a view to secure to the settlers at Penang, Singapore, and Malacca, a steady supply of such Medicines, &c. as may be contained in the Hon'ble Company's stores, an individual is named at each of those stations, who is permitted to receive Medicines, &c. from the Store-keeper, ou paying an advance of ten per cent, and the cash is to be tendered officially to the Store-keeper with the Indent,

8. The Medical Store-keeper is to supply the individual, taking care to reserve a sufficiency for the demand of the public service; he will receive payment for the amount of same into the stock actually issued, and he will pay the same into the Hon'ble Company's Treasury, reporting the circumstance to the Superin-

tending Surgeon.

9. The Residency Surgeons at Singapore and Malacca, will transmit to the Medical Store-keeper at Penang, quarterly Returns of expenditure and of sales, shewing the proceeds thereof, to enable him to draw up his quarterly statements, comprising the expenditure and sales of the three settlements.

10. Early in May annually, the Superintending Surgeon will assemble a committee of mittee to ex-

terly and Re-

lance of stock.

A letter book.

Petty expence book.

Sales authorized for pub-

Medical store keeper receives payment and delivers the Treasury.

Singapore and Malacca Surgeons make Quarterly Returns of Medical stock &

amine Medical stores.

STREET, STREET,

Medical officers, to examine and report upon all stock in the Medical Store Department, with instructions to separate all impaired or decayed articles; and he is to be present when those articles are destroyed. The proceedings of the Committee, signed by the store-keeper, and countersigned by the Superintending Surgeon (but neither of whom are to be members of the Committee except in cases of necessity.) are to be laid before Government by the Superintending Surgeon, with appropriate observations.

Draft of Annual Indent prepared by the store-keeper and submitted to the Supg.Surgeon.

11. The Medical Store-keeper will prepare his annual European Indent, and forward it to the Superintending Surgeon on or before the 1st of July, and with the view to render that document more perfect, the Residency Surgeons at Singapore and Malacca will forward hypothetical annual Indents to the Superintending Surgeon, on or before the 1st of May, and the Penang store-keeper having received those documents from the Superintending Surgeon, will then submit a general review of the Store Department.

The Supg.
Surgeon corrects the
draft and returns it.

12. The Superintending Surgeon having marked the quantities he deems necessary, and made such observations as the interests of the service suggest to him, he will return the draft of the Indent to the store keeper, with instructions to prepare the annual Indent.

The Medical
store-keeper
sends the Annual Indent
in triplicate
to the SupgSurgeon, who
forwards it
to the Secretary to Government,

13. The annual Indent is to be forwarded in triplicate, by the Medical store keeper to the Superintending Surgeon, and that officer is to transmit the original to the Secretary to Government, and also the duplicate and the triplicate at the next succeeding periods, when opportunities occur for their transmission in a packet to Europe.

14. When the supplies arrive from Europe, Supp. Surgethe Superintending Surgeon will, in like manner, assemble a Committee, to open, inspect, and examine them; and the Medical storekeeper's signature to the proceedings, is, to acknowledge his having received charge of the stock, as therein described.

on will assemble a Committee to examine stock on its arrival.

15. The Medical store-keeper on receiving Indents, or Returns of Medical Expenditure, sent either fo supply or for examination by the Superintending Surgeon, he is to examine these documents in both cases by comparing them with the books of his office, and if any error is detected he will bring the circumstance to the Superintending Surgeon's notice, who will direct the Surgeon that furnished the document to correct the error.

Medical storekeeper examines Indents and Returns, and reports their errors to the Supg. Surge-

SECTION IST.

Superintending Surgeon's Duties, or Duties of Control---- General position in the service and duties to Government.

The Superintending Surgeon is placed at the head of the Medical Department, and occupies the same relative position to the Govt, is at the Government and to the subordinate members of the profession, that the Medical Boards hold under the other Presidencies, and hence, he corresponds direct with the Secretary to Government, in certain cases.

Supg. Surge. ons position under this head of his Department,

The office level why establish-

2. The objects for which this office is ed. established, are: that an individual who has acquired considerable knowledge of Indian diseases, by ample experience of their treatment in India, may watch over the practice and proceedings of the subordinate members conducting the executive professional duties, and therein, he is to control, advise, and aid them.

Subordinate Medical servants subject to his orders.

All Officers of the Medical Department 3. are hereby instructed to respect and obey his orders.

He is to act according to his judgment for the good of the public service.

4, The control and guidance of the Medical Department being confided to his care, he is in all cases to act according to the best of his judgement, in the discharge of his professional duties, for the good of the public: service, and to discharge with honor and fidelity agreeably to the spirit of the regulations, the usages of the service, and the tenor off his commission, the duties of that trust fided to him by Government.

He is to keep the public books of his department writtenupand on quitting his office, transfer them complete.

5. He is to keep written up and arranged the official books and documents herein prescribed for his office; and when eventually relieved from those duties, he is bound to deliver over to his successor the prescribed official books, &c. in a perfect state, so that the public service may not suffer the loss of any record, or any information belonging to: that Department, by the change of the individual holding the office.

He is to watch over the Medical Store Department.

6. He is to watch over the Hon'ble Company's Store Department and its subordinates branches, and to keep the Government sufficiently informed on all subjects connected there with.

Tocorrespond

7. It is his duty to correspond generally

with all members of the profession belonging with the proto this Presidency, to lay such parts of that communicate correspondence, when public, before Govern- those parts ment with his own comments thereon, as he vernment that may deem expedient for the public service, or may be requiotherwise useful : and his exertious are re- ments. quired to prevent addresses from subordinate servants, being laid before Government thro' informal channels, or unaccompanied by the explanations or opinions of the more experienced superiors who forward them.

8. He is to communicate his opinion of To keep Gothe relative merits and talents of the Medical vernment inservants of Government, either when called on to do so, or when any particular circumstances or occurrence may render it his duty to make such communication.

formed of the relative merits of Surgeons. and and

9. To collect all Medical Returns in the forms prescribed, and lay them regularly before Government with all the additional information that his experience enables him to contribute, added in the margin, on every subject connected with Medicine or natural knowledge.

To collect Medical Reports, comment thereon and submit them to Govt.

> LANCE BULLISSON to super pilote to Addition Astronom

CHAPTER 5TH.

SECTION 2D.

Duties of Control, Continued.

1. The Superintending Surgeon is requir- To inspect the ed to examine frequently the Medico-chirur- Surgeon's books and engical Journals of Surgeons, and he is respon- ternoteswhen sible to report to Government, if that Journal is, or not, kept regularly as ordered; and he

is to affix his initials to any important case where he may have given the Surgeon instructions for its future treatment, and to record briefly at the moment the opinion he has given. This procedure applies equally to the record of cases either servants of Government, or those of persons unconnected with it whom the surgeon may attend in leisure hours.

To call for a nominal Roll.

2. The Superintending Surgeon will call for a nominal roll of the sick he is to inspect, on the day preceding the visit. This roll is to be drawn out in the following form, vide Appendix Table No. 1.

To visit the hospitals at the time appointed.

3. The inspecting officer is to visit the Hospital at the time appointed where the subordinate Surgeon is to be in attendance to receive him, and he is to have his books, instruments, and the sick ready for inspection.

Manner of inspecting an hospital.

4. The inspecting officer taking the nominal roll for his guidance, and having the Medico-chirurgical Journal before him, is to inspect every patient, to look at the reception report, and take a glance at the case from its commencement to that period.

Superintending Surgeon to note any special opinion when necessary. 5. If he deems it expedient to recommend any alteration, or, to take a different view of the Diagnosis, he is to record the same on the face of the Journal, and affix his initials thereto, agreeably to the following form.

Manner of entering the opinion. 6. Note by the inspecting Surgeon, June th, 182

This case appears to be , present treatment recommended to be discontinued, bleeding, purgatives and flannels, with appropriate diet to be employed.

A. B.

Supg. Surgeon.

7. Independent of those special inspection Hospital visits, the superintending surgeon is to visit the Hospitals at all times whenever he thinks fit, without any previous notice, and he is to make any remarks or comments tending to the advantage of the sick, or good of the public service.

Superintend. ing surgeon to visit the hospitals without notice.

bfedico-chi

mals and other

To peruse

ter bis com: ments in the

APTER 5TH.

SECTION 3D.

every important case related

Duties of Control, continued.

1. The superintending surgeon having re. To prepare a ceived the monthly returns from the Executive Medical officers at Penang, Singapore, and Malacca, he is to frame one general monthly return in the prescribed forms for each settlement, vide Appendix No. 8 A and B, also Tables Nos. 9, 10, 11, 12, and 13. Having concentrated into those general forms, all the information conveyed by the returns of executive surgeons, he will transmit the same to the Secretary to Government.

The quarterly and half yearly Returns when received, are also to form the basis of similar periodical reports in the form prescribed, vide Table No. 23, to be transmitted to the Secretary to Government.

The Superintending Surgeon in October annually, will transmit blank books to all surgeons employed under Government, togeher with instructions that they are to transmit all the public manuscripts of the year to him, on the 1st of January, in the manner that he

general Monthly Return constructed by Ta. bles 8 A & B, also 9, 10, 11, 12 and 1, for Government.

To furnish Quarterly & Half Yearly Returns.

To transmit blank books & recal the manuscripts & annual public docu ments.

ing surgeon to visit the hostwedlin sisting To bind the

Superintend.

books.

To peruse them and enter his comments in the margin.

Prefatory of the annual Report.

also 9, 10, 11,

To propare a

general Monthly Re-

structed by In bles 8 A & B.

> Manner of framing the Report. Guarterly & Half Vearly

SERVICE STATES

directs, and they are hereby ordered to be sent accordingly after having received the official signature of their respective authors.

-on 4: The Superintending Surgeon will arrurgical Jour- range the Medico-chirurgical Journals and nals and other other manuscript books, and have them carefully bound into volumes for their preservation.

5. The Superintending Surgeon having collected, will carefully peruse the Medico-chirurgical Journals, and as they will be written half margin, he is hereby ordered to record his opinions in the blank margin, in his own hand writing, with his initials annexed to every important case related in those Journals; so that the Government may actually derive the full advantage of that more extended experience and knowledge in Indian diseases, which are considered to render his services so much mere valuable than those of the inexperienced; and for which consideration, both his rank and remuneration are increased.

6. The following is the manner in which the Superintending Surgeon's annual report is to be drawn out, invariably on royal paper, and submitted to Government for the purposes

already stated.

7. Separate Medico-meteorological Tables of the twelve months at Penang, Singapore, and Malacca are to be afforded, agreeably to the scale drawn out in Table No. S A and B, including Vaccine and Variola as two diseases, Each Table will be followed by the information conveyed in No. 11 and 12 of the correspouding month, written on half margin. Superintending Surgeon comments on peculiarities of season, their influence on health, the pathology and principles of treatment in the prevalent diseases, and all other elucidamay elicit from his experience, are to be written in the left margin opposite to the operations and observations. A selection of the most remarkable cases transcribed from the Medico-chirurgical Journals furnished by the surgeons, and accompanied with the Superintending Surgeon's marginal comments thereon, are to be annexed for the illustration of the pathology, and principles of treatment adopted in each particular species of disease; and those comments are necessarily expected to take an extended and accurate review of the subject.

8. It is left to the Superintending Surgeon to select those cases from the Medicor chirurgical Journals, that are to form part of his annual report; but he is directed to send in not less than two cases, nor more than four

from any surgeon's journal 2000 adT &!

information hitherto contemplated in these regulations, the Government takes occasion to remind the Superintending Surgeon and every member of that profession, that the Medical topography and every department of natural knowledge that their acquirements enable them to illustrate, are subjects which they may dilate on; and as the Natural History of the Malay Peninsula and Indian Archipelago remain unexplored, and the Medical practice of Native Doctors is little known, these subjects form a very extentensive field for the investigation of those, duly qualified for such important and useful researches

10. The superintending Surgeon will arrange all papers in the natural history of India and practice of medicine amongst the

Superintending Surgeon selects the cases.

All papers to

charge.

Papers on natural knowledge solicited from the profession.

Annual Re-

gronatius on

Papers on natural knowledge where placed. natives, in the most systematic form, following in due order the medical history and cases of the year.

Report closes with a statement of the profession, their duties and the list of public papers in their charge. of the public records actually kept and transferred, the annual report is to be closed with a list of the medical servants of Government, shewing the situations they occupy and a description of the quantity and quality of the public documents they received charge of from their predecessors.

All papers to bear and shew official signatures respectively in the annual report. vered into the Superintending Surgeon, are to bear the offiial signatures of their respective authors; and those signatures are to be duly copied into the annual reports shewing the authors name. The Superintending Surgeons marginal remarks are also invariably to occupy their exact place in the report.

Annual Report deemed important and when to be delivered.

13. The Government attaches the highest importance to the Superintending Surgeons annual report as a document to which they are justly and fully entitled. He is hereby ordered to present a manuscript copy thereof on or before the 1st May in each succeeding year in the prescribed forms and duly arranged in the exact order it is to be printed and published.

Annual Reports to be published, the Superintending Surgeonathis own expence may have additional copies.

14. The Government will have those annual reports regularly printed, and copies will be forwarded to the Hon'ble the Court of Directors, to the Medical Boards of the different Presidencies, and to the fixed Medical offices under this Government; but beyond the number of copies the Government may require, the Superintending Surgeon may at his own expence, strike off any additional number of copies he pleases.

Papers on natural khowlodge where

15. By the Publication of the annual reports, the Medical history of the year and the professional labours of the Hon'ble Company's Medical Servants, will become available to science and the publick in general; an ade vantage to this class of servants so much the more cheering and satisfactory, as it will bring an entire display of all their labours, converged, concentrated, and illustrated by the Superintending Surgeons more extended bers that conexperience in the diseases of India, to the notice and constant annual review of the Honorable Court of Directors: in a manner that will shew, the exact merits, talents, and qualifications, of every judividual who contributes thereto, won sood dies somerav ta

The publication of the report is considered an act of justice to the Hon'ble East India Company, an advantage to science, to the public, and honourable to the professional memtribute therevided for sub-

16. It being the duty of the Superintending Superintend-Surgeon to watch over the publick health at Penang, Singapore and Malacca, he is to visit dependencies these settlements once annually, or more frequently should Government deem it expedient for the interests of humanity or the publick service.

ing Surgeon is to visit the annually.

ectto the se-

neral asage of ME SETVICE.

17. In the course of those official visits. after due enquiry, the Superintending Surgeon is to report to Government on the state of publick health, embracing vaccination and a general view of all remarkable occurrences in the Medical Department from the period. of the preceding until the date of the present two sinall pieces of board fastened by trongs

To inspect the Medical establishment and report there-

Weekly states Monthly Re-

-TEHO LESTON counted What

and half year-

ty Metarns.

18. Inspection reports will embrace distinct returns of the several institutions and establishments for sick at each settlement, with a nominal roll of the Medical Officer in charge, and the servants employed. Explanatory observations are desired in these reports on all subjects that require elucidation,

General outline of the of. ficial inspection Report.

> Lefters fr the Secretar

To report up. on Epidemic and Endemic diseases.

Cases unprovided for subject to the gethe service.

Suporintend.

is to visit the

>50 G950 6

19. Whensoever an endemical or Epidemic disease makes an irruption towards or into the confines of this Governments territories. Medical Officers are required to report the same to the Superintending Surgeon, and he is to make the earliest report thereof to Government. He is also required to add the information he possesses regarding the nature of the evil and the most efficient means of checking its progress and lessening its ravages.

20. Should any circumstance or cases occur not contemplated or specially provided neral usage of for in the foregoing regulations, they are to be arranged agreeably to the usage and custom of the service. All rules and regulations at variance with those now published are hereby abolished.

SECTION 4TH.

Arrangement of the Superintending Surgeon's Official Documents.

Weekly states Monthly Reports, Quarterly Returns, and half yearly Returns.

report there-

Letters from the Secretary to Govt.

The Superintending Surgeon is to keep the original documents of each Surgeon, secured in their order of succession, between two small pieces of board fastened by tapes; these reports may be bound up with the Medtco-chirurgical Journals, from which each respectively has emanated.

2. Those documents are to be kept by themselves secured between two pieces of thin board fastened by tape, and when sufficiently numerous they are to be bound up together.

3. All other public letters are to be kept Public letters and preserved in like manner, promiscuouslv.

to be kept together in the same manner.

4. All public statements, certificates, and other documents, (not letters), are to be kept, the Penang, Singapore, and Malacca, each in lic papers in a distinct fasciculus, and to be preserved as the letters.

Penang, Singapore, and Malacca, pubthree parcels.

5. The Letter Book is to contain copies of all public letters written and received; each letter written to be numbered, and the book is to contain an Index, vide Table No. 24.

Public Letter Book.

6. The public book is to contain copies of all public records, not strictly letters; certificates, proceedings of Committees, special Reports: in short, all miscellaneous matter is to be recorded in it. It is also to contain an Index, vide Table No. 25.

Public Book.

7. The Superintending Surgeon is to pre- To keep coserve manuscript copies of all Returns and pies of Re-Reports dispatched from his Office, written into bound books.

gapore, and

3. All other public letters are to be kept and preserved in -like manner, promisenous-

> 4. All public statements, certificates, and other documents; (not letters), are to be kept, the Penang, Singapore, and Malacca, each in

of all public letters written and received ; each letter written to be mistbered, and the book is to centain an Index, vide Table . No.

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directes, iprocessings of Committees, epecial Reports : in short, all miscelladeous matter

is to be recorded in it. It is also, to contain an Index, vide Table No 25.

7. The Succriptending Surgeon is to prein we manuscript copies of all Returns and Reports dispatched from his Office, written

PART II.

APPENDIZ.

TABLE No. 1

Abres of violent Roll.

Institute in the State of the S

PARTIL

APPENDIX

TAIL BELL T.

which space it is straight

to Large & Challes to start the

Minth Jane 12 - As Shipping

TABLE No. 1

Form of Nominal Roll.

Nominal Roll of Sick in Hospital of

Names.	Rank or Profession.	Diseases.	Admitted or taken Sick.	Page of Journal.	Remarks,
t followed by	vechide, wer heavy shows an Armba	E. every Obsertion Beavy T. a d pleasant	Condenses of the conden	n. h. av squal much regns regns	ON M. W.

Station and date.

A. B.

Surgeon.

TABLE No. 2.

Form of Present State.

Present State of Sick in Hospital of the Prince of Wales' Island

March 182

ATT OF THE PARTY O	Anasarca	Catarrh.	Diabetes.	Diarrhea.	Dysentery.	Ferer Remitt.	Fractura.	Ophthalmy.	Rheumalism,	Ulcers Common.	Ucers Sloughing.	Wounds & Accetts.	ON THE PROPERTY OF	sintery, vivolent of the sense	000
(Here enter De partment)			The state of the s						The same of				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 Total	No. of Concession, Name of Street, or other Persons, Name of Street, or ot

A. B. han moitata

Secretary.

TABLE No. 3. Form of Weekly Report.

Weekly Report of the Sick in Hospital of the from Sunday 13th to Saturday 19th of April 182

ANALYTICAL REVIEW OF THE WEATHER.

Sun. M. W. Fr. heavy clouds, N. E. every Evening, were followed by squalls from that direction; heavy showers of rain, much L. and very heavy T. near. Atmosphere, in consequence light and pleasant, the nights cool, highest temp. 87 at 3 P. M. 13th. Min. (on the 14th) at 6 A.M.

74. Range 133 average temperature. Rain during the Week, 3 inch. 1-16. Greatest

quantity fell 17th.

Diseases.	Kemained Jast Week.	Sunday 13th.	-	Tuesday 15th. D	-23	th		Saturday 19th.	Total.	General Total.	Cured.	Dead	Remaining.	Remarks.
Dysentery, Diarrhœa, Remitt. "Penang, Quartan, Tertian, Quotidian, Inf. External, "Cephalic, "Thoracic,	0	0	1	0	1	0	The state of the s	3	6	6	2	1	3	dell'action and

A. B.

TABLE No. 4.

Form of the Register.

A Register of Cases treated by (Here enter date.)

Names.	Rank or Professon	Diseases	Admitted or taken Sick	Dischd. or Recovered	Dead.	Page of Journal	The state of the s	Remarks.
No com	propak	niend en	Rem Cra English				-	nod by Hon
a form	Harry I	ined and the	NA NA	1 10 10	-	-	18	

TABLE No. 5. Form of Hospital Ticket.

(EUROPEAN.)

HEPATITIS.

une 20th, 182 Admitted John Dighton, Æt. 34 (Rank) In India Years.

IAGNOSIS. Inflammation and derangement of the Liver, tending to produce Dysentery.

'RESCRIPTION.

TABLE No. 6. Form of Hospital Ticket.

(NATIVE.)

FEVER REMIT. BILIO. uly 15, 182 Admitted Syed Hussain, Att. 29 (Rank or Occupation), (Caste and Country.)

MAGNOSIS. Inflammation of engorgement of

and

DIET.

PRESCRIPTION.

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Form of
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ion an	Supply (19	tab	Bustere Head
Station and Date.	Single of the second	150 A 100 A	Regard Discourse delication of the contract of
A. V	2 Can	lbs oz.	Remained from pre- ceding half Yearly
		1 4	Indent, dated
		lbs oz. dr	Received on last Half Yearly Indent, dat- ed
C		lbs oz.	Received on Extre
Pie min	1600000 h	dr. Ibs	Dillia)
1	(Ama) 12 13	oz. dr	Total.
tending.	mint of the Live	lbs oz. dr	Expended.
	. 100 0	dr. lbs oz dr.	Remaining at the date of this Indent.
А. В	auni	lbs oz.	Wanted.
Surgeo.	Sar	dr. lbs oz.	Supplied
eo;	A CONTRACTOR	dr.	NOINE

Supg Surgeon.

TABLE No. 8. A.

Medico-Meteorological Report for the Month of

June 18

Penang.

comperature and weather as observed on the Great Hill. Ther. Temperature and weather as observed in the vailey.	Ther.	rea. in the ry. in and. in diam in diam in the ry. in diam in the ry. in the ry.
6 3 9 A.M. P.M. P.M.	6 3 8 A.M. P.M. P.M.	Anastrea. Anastrea. Divertean. Guerian. "Cepbal. "Cepbal. "Ueers con. "Neumatist.
- Pinne		Remd. fast Return 3, 3, 3, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1 Sun }		{ Furopeans, I , , , , , , , , , , , , , , , } { Natives, , , , , , , , , , , , , , , ,
3 T. { 4 W. {		Europeans
N. B. The diseases actually observed are to be arrange in the manner here indicated; and this Table is to be extended embrace the number of days in the Month.	ed to	Total, 2 3 5 3 7 2 3 Cured, 1 1, 1 3 7, 1 1
embrace the number of days in the facility		2 Total Cases, - , , , , , , , 1 1 Remaining, 1 3 4 , , , , , 1

1. B. 1. 2. Where these figures as insert " tatal Cases."

Las Superintending Surgeon.

Abstract of Corps and Departments, duly contained in the foregoing General Report for the Month of

REMARKS.	BE Amil
Grand Total.	
and restricted	
and the same	
Diarrhau.	
Catarrh.	
.nro?l	建筑
Asthma.	
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-	DOEZ O

TABLE No. 8. B.

Medico-Meteorological Report for the Month of

June 18

(Station.)

	182	Temperature and weather as observed at	Ther.	Ansarca. Dysentery. Djarthoga. Djarthoga. Fenint. Penang. Pertian. Guartan. Cephalic. Jouacic. Ophthalmy. Sloughing.
Moon.	Month Dav.		6 3 8 .AM .P. M. P.M.	A Dasarca. Dysentery. Djarthoca. Remitt. "Penang. "Pertian. Quarten. "Cephalic. "Cephalic. "Gephalic. "Gephalic. "Stoughting. "Stoughting.
				Remd. last Return -
	1 Su 2 N 3 T 4 W	ed are to be arranged in the manner here indicated; and this Table is to be extended to embrace the number of days in the		Furopeans, Natives, Europeans, Natives, Na ives, Europeans Natives,
				Total,
				Cured,

insert Fatal Cares"

. 201 Conpersions and weather as pla Month NEOSUL ed are to be the manner he 2 Indie is to be ex-to emerce the of days, in the Þ 27

TABLE No. 9.

to latique I Vaccination. encharge language

Monthly	Return of	Cases at		in June 18	2
			great wa.	ubntariou of the	1
THE PERSON NAMED IN	0.0	The second second	111	ence de come.	

European T. Bradford, 1 2 Male. 1 "No fever, or very little—glands swell'd. Jas. Wells, - 2 " " Much fever for 24 hours beginning he su day. Fortuguese Arabs Parsee " " Fever on the sd.	Denominations.	Names.	Age.	Sex.	popular Remarks.
Jas. Wells, - 2 " " glands swell'd. Indo-Briton - N. Shemeer - 1 " I " Fever on the 3d. Portuguese - Arabs Parsee " I " Fever on the 3d.	Parts Parts	avilies of the	To do on	of the adirion citing whedge	Dissection and Examination man body, whorem the converge man were minutely stored in a extension of Medical Lagrange
Armenian Portuguese	con Illy bears	Jas. Wells,	2 3	16 di	glands swell'd. "I Much fever for 24 hours beginning he 8u day.
	Armenian Portuguese - Arabs	12.	N.	1.13	Medico-Chirure

TABLE No. 10.

Here record whatsoover observations the Surgeons may have to offer on the General James be supposes to have influenced the origin on course of the diseases.

Variola.

Monthly Return of Cases which occurred at in June 182

Denominations.	Names.	A	ge.	Sex.	Remarks.
European	John Wilson,	1	"	Male.	Sickad on the 1st, & became convalescent on the 15th
	Thos. Wells,	4	"	"	Sickened & becam
Armenian	James Smith, N. Shemeer - Anthony,	**	8	"	

TABLE No. 11.

Surgical operations performed in the Hospital of in the Month of 182

Amputation of the great toe,		Cuses	10 1710	OH SHO	Join 1
Venesections, -	1				6
Number of Leeches applied,		1		1	120
" Blisters "		1			20
"Abscesses laid ope	n,	1.582.	Homes.	.REGES	m mounts (2
" Sinuses,	-	1		-	1 1
Dissection and Examination					1
man body, wherein the con					1
were minutely stated in wr	iting	at the	moment	for the	
extension of Medical know	rledge	. 1	-	0	1000
I If " No fever, or very little.	plate	TO IT	Bradford	.7 0	idense in e

N. B. Any other operations that may have been performed will necessarily be recorded in this Table.

TABLE No. 12.

Medico-Chirurgical and Miscellaneous Observations for April, 182

N. B. Here record whatsoever observations the Surgeons may have to offer on the general causes he supposes to have influenced the origin or course of the diseases noticed in this month's Return.

TABLE No. 13.

Peyer on the Sd.

Form of Monthly Return of Medical Officers, &c. March, 182

Mouthly Return of Medical Officers and Servants.

Names.	Rank.	Date.	Remarks.
lekad, on the 1st. & becam	" Maie, E	Rank.	saropean John W
abened & becam		1 395	nde Briton - James Sa Limenian - N. shem ortagaese - Authony

TABLE No. 14.

APRIL, MAY, AND JUNE.

Expenditure of Wines and Beer, &c. supplied by the Commissariat.

Names of Patients (showing the quantities of Wine used.)	Madeira.		D. 1	rort.	Rounds	Liming.		Beer.	-	Arrack.	
The second secon	B	_	_			200	-	1.00		100000000000000000000000000000000000000	
James Smith from 1st to 15th, Syed Mahomed from 10th to 20th,	2	6 8	"	"	"		**	46	"	"	
Total Expended,	4	2	46			66	44	"	64.	16	
Received,	12	66	60	"	"	44	46		a	"	
Remaining,	7	10	**	"	"	••	"	64	"	12	

Station and date.

to to Surgeon.

TABLE No. 15.

Quarterly Return.

Of Dead Stock in use at the

Hospital.

	Cots.	Beds.	Pillows.	" Cases.	Quilto.	isheets.	Shirts.	Tromsers.	Bed Gowns	Caps.	Piates.	, mbs.	13.	Here enter all ar- ticles of public pro- perty, in use or store.
In good condition, Unserviceable,											-		を に の の の	Yearly I

Station and date.

Signature of the Steward.

Countersignature of the Surgeon,

3	panddng.	OZ.
2 12	Jan de Maria	2 Salaha
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A DAGE	price of the Surge	maidrename has with
	A.	

Half Vearly Return of Expenditure of Medicines from TABLE No. 16.

197

TABLE No. 17.

List of Articles received from the Commissariat, shewing Expenditure and Residue from to the

ARTICLES.	Received.		Remaining.	Remarks.
A. B. Surgeen, Charge of	ned)	(8)		Station and Date

A. B.

Station and date.

Surgeon.

TABLE No. 18.

Sick Certificate, No. 1.

DISEASE. In a bad state of health, I therefore recommend, that he may be permitted to proceed to and to be absent until the

Station and date.

(Signed) A. B.
Surgeon,
In Medical Charge of

TABLE No. 19.

Sick Certificate, No. 2.

DISEASE. I do hereby solemnly declare, that is in a very bad state of health, and that, in my opinion, leave to proceed to for the recovery of his health, is highly expedient.

Station and data.

(Signed) A. B.
Surgeon,
In Medical Charge of

TABLE No. 20.

Sick Certificate, No. 3.

I do hereby certify, that
in a dangerous state of ill health, and I am of opinion,
that leave to proceed to
is absolutely necessary to his recovery.

Station and Date.

SULTHEBIS

(Signed)

A. B.

In Medical Charge of

TABLE No. 21.

MAY THE 10TH, 182 SINGAPORE.

Schedule of Public Official Documents, transferred by Mr.

Surgeon

the Singapore Residency, to Mr. Asst. Surgeon

nominated by His Excellency's order in Council, under

date the 27th of April, 182

Description of the Documents.	Number.	Whether complete, or incomplete.	Particulars of inaccuracie and irregularities in the Documents.
1 22.56			1
	:01	HLE NO.	AT .
2	IVO.	Sarifeate,	Sick y

I hereby declare to having read the above in Mr. presence, and that the Documents transferred described. by me are now in the state above described.

(Signed)

Surgeon, Recently in Medl, charge,

aving read

1 hereby acknowledge having researce, received the above, in the state above transferred described.

(Signed)

Asst. Surgeon,
Appointed to the Medl. charge
of the Singapore:
Residence

TABLE No. 22 A.

List of Public Property transferred by to Port. Brandy. A. B. Station and date. Surgeon. TABLE No. 22, B. List of Medicines, &c. transferred by MEDICINES. REMARKS. lbs joz. dr.

station and Date.

A. B.
Surgeon,
Recently in charge of

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TO TO THE REAL PROPERTY.	Selection of the		I P P H	-'

TABLE No. 24.

Index of the Letter Book commencing

182

Letters, Date and Number.	Ву	whom.	To whom.	Page of Lette Book.	Subject.
No.5 10th March.	Staff 5	Surgeon.	Mr. Asst. Surgeon	15	Remitting Contingent Bills.

TABLE No. 25.

Index of the Public Book commencing

Since Rumings

182

Date and Number.	The Authority.	Object of the Document.	Page of the Public Book.
No. 1, 10th Jan. 182	sst. Surgeon	Statement of Services and ill health, to recover in consideration, certain allowances, for Letter vide Letter Book, vol. 1st. p. 28.	10

TABLE No. 26.

To

THE HONORABLE

Resident Councillor

HONORABLE SIR,

I have the honor to state

Secretary Blog Congress with

to respect to the property of

I have the honor to be,

HONORABLE SIR,

Your Obdt. and humble Servant,

(Signed)

M. D.

Asst. Surgeon,

In Medl. charge of the Residency.

Station, th Nov, 182

Mode of taking a Case.

-Ætat 30, Sepoy of the-Admitted .-

Six months since was taken ill of weakness, Previous His-Dropsy and Pains at

tory.

the symptoms supervened in the following order: 1. Dyspnæa; 2. Thoracic pains; 3. Gums became sore, 4. Teeth loose, 5. Edema, 6. Pustular eruptions especially on the extremities, 7. Pains, 8. Heaviness of the limbs and 9. Numbness, 10. Burning of the palms of the hands, soles, and then of the entire feet, 11. Partial paralysis of the lower extremities. Now complains of 1, 2, 3, 4 5. 6, 7, 8, Present con-9, 10, 11. Extreme emaciation. Anasarca, no appetite, Digestion bad. Thirst, Bowels loose, urine scanty and red, cannot sleep. Pulse 120 large soft and undulating. Tongue, tissue pale, no fur, smooth and sulcated superiorly, the margins irritated and red, skin thickened, dry, hot, scaly, many eruptions of a pustular kind but covered with thick dry scales, palms. dry, dark spots marking the site of recent blotches and pustules over all the surface, more especially on the extremeties. Thorax deformed by encreased convexity laterally, sounds well seperiorly, inferiorly dull on percussion. The abdominal parietes are conn stricted and hollow anteriorly, adapted to the diminished Volume of the viscera. There is 10 pain on pressure, a little gas but no effusion ndicated by percussion. The stethoscope ndicates the rushing of air through large carities and occassional tinkling in both langs superiorly. Inferiorly both lungs are imperectly traversed and on the right, Hygophonism.

Egophosismo

Diagnosis

The Heart's action is deep, dull, diffused, and ex-

tending over all the Thoracic parietes.

Pulmonary tubercles superiorly and inferiorly on the right. Hydrothorax and Hydropericardium. Effusion into the Spinal Theca and into the external cellular tissue. The blood having lost part of its fibrin by effusion, is thence in an unnatural state. Digestive, and external and internal capillary derangement, with intestinal Ulcers.

N. B. Here is to follow the order for Diet, prescription for Medicine, and all Instructions that are calculated to influence the treatment, or assist in restoring health.

No. 28.

Analysis of any remarkable disease. In reference to Chapter the 2nd, Section the 4th, Para. 11th. this rapid analysis of a case is given, to illustrate distinctly the form and mode in which the opinion of Medical servants is to be offered in their abstract Monthly Returns, on any species of disease noticed, that may be worthy of particular comment or remark.

No. 29.

Diagnosis naturally affords the theory of cure. It will also serve to shew, how easily and naturally the indications of cure and rationale of treatment, are deduced from the Diagnosis; and again the great value of accuracy in framing all those views, as the success of curative means, or, (in other words.) the life of the patient and the character of the Surgeon or the Physician, are both necessarily at stake, on their exactitude

Method of viewing a Case Analytically.

Suppose there is no approach to ple- Diagnosia-

thora, and the Diagnosis to be

Chronic engorgement of the Cerebral tis-(0) sue, tending to softening of some part of its substance, and this engorgement originally influenced by a previous Pulmonic affection, wherein effusion took place on both but more especially on the right side, as evinced by the increased convexity, and impaired pulmonic murmur.

INDICATIONS OF CURE.

Promote and preserve the general health and the various functions, by the strictest attention to regimen, regular repose, gentle exer ise, and amusements; remove the engorgement and the local determination to the Brain. by the establishment of a greatly increased action in the neighbouring absorbent vessels.

Preserve carefully a healthy condition of the lungs, by the liberal use of flannels, and, most carfully avoid all exposure; as the thoracic organs must exercise a direct influence on the system of the brain, from the connection already established between them.

MEDICAL TREATMENT.

Employ a series of blisters, to be cut about Medical 11 inch broad, to extend posteriorly from ear Treatment to ear, and dipping down-wards in a Semilunar form; the succeeding blister to be anplied immediately the preceding is healed.

Indications of

NOTE. This mode of viewing a Case, of making the Dissection, and analysing the information it affords, is extracted from a paper drawn up by me to be presented to the Royal

Keep the bowels open with the following Pills occasionally.

R. Pil. Hydrarg 1 drachm Poly, Ipecac, and Pil.

Rufi ā ā 20 grains in Pil No. XX

Sign One occasionally at bed time.

ANALYSIS OF TREATMENT.

Vesications by cantharides.

The repeated and continued application of blisters to the back of the head or neck will occasion a greatly increased and energetic action in the absorbent vessels locally, whereby the partial enforgement will become ultimately and permanently removed, and a healthy con-

dition of that part will ensue.

Pll Hydraag

The effect of Mercurial Pill in stimulating the system of the Liver where a combination of causes tend to render that organ inert, and promoting its secretion where they are so constantly vitiated, is calculated to induce and

preserve the general health.

Pulv. Ipecac

The effect of Ipecacuanha in a divided dose is to induce the stomach to act more perfectly, by cleansing its mucous membrane and that of the Duodenum and the tube generally, from the viscid mucous which agglutinates their follicles and by interpositoin prevents the healthy action of the Capillaries and impairs that of the muscular fibres.

Pil Rufi.

The Compound myrrh and aloetic Pill not only will be useful in keeping the colon free from feecal collections, but it will also assist in deterging the mucous Intestinal coat, and thereby conduce to render its functions more healthy and perfect.

No. 31.

The following case is laid down as a form Dissections to be adopted by Medical Officers in making how recorded

and writing out their dissections, in every case where post mortem examination is made. In all cases the contents of the Thoracic, abdominal, Cranial and Spinal cavities are to be minutely examined and detailed at the moment: Subsequently the Resume is to be formed and the inductions and considerations afforded thereby, are to be duly entered in the forms, and in conformity with the views here laid down.

No. 32.

MALACCA 16TH JANUARY 1828.

Death by Hæmorrhage from a Wound of the pleen and Peritoneal injury.

A man apparently about 22 years of age, Previous his and recently employed as a ship Lascar, was tory. prought into the General Hospital about 11 b'Clock A. M. on the morning of the 16th Vanuary 1828, said to have fallen down a well Accident. with a bottle in his hand, at 11 O'Clock P. M. on the 15th, from which he received two trans- Injury berse wounds in the left hypochondriac region, bout an inch below the ribs, the largest about inches in length, the lips of the smaller half an ach apart, an inch in length, and nearly in a line with the former. Through the largest, a great ortion of the small intestines protruded, and of Intestines. It the time of his admission into hospital, they ere in a state of high inflammation and cover-

Note .- It is to be observed, the dissection of those who e from sudden causes, are peculiarly valuable to science r two reasons :-

Ist, They generally shew the early rudiments or traces of sease, on the tissue that has first submitted to morbid

2d, They make the ministers of health, conversant with the exact natural appearances of the several tissues

Replaced Dressed

Symptoms

Treatment.

Inspection of the Dead Body.

cd with sand. They were cleaned and returned into the abdominal cavity. The wound was brought together by sutures and superficially dressed. He appeared to have lost a considerable quantity of blood His pulse was 140. very small and hard. Tongue not observed. Skin cold and moist.

He answered questions with difficulty but rationally. He complained much of Abdominal pain. Venesection was performed and 32 ounces of blood drawn from the arm. Warm fomentations were applied over the abdomen. He lingered until 10 minutes before 5, and then he

expired.

The foregoing particulars were reported to me by Assistant Surgeon Ward, M. D. and I proceeded with his assistance to examine the body. I past 1 P. M. 16th January 1828 The body was extended horizontally for examination, the subject is of a middle size, black very muscular, has caffre features, and apparent ly, was in the recent enjoyment of perfect health With the exception of the two wounds alread described, no marks of external injury ar apparent. The Tongue was not, (but should have been.) removed and minutely inspected.

110 Jigh 1919

AUTOPSY.

Removing the sternal arch, the Lungs pri sent a healthy color, but are not perfectly co lapsed; both afford crepitus. The Pleura generally pale and there are very slight adhesion on both sides of the lower pleuro-pulmona surfaces, to the Diaphragm.

The pericardium laid open, contained ahe an Ounce of fluid: the heart removed and t right and left cavities laid open; both ventrich le

Thoracic

Heart.

and auricles are empty. The internal appearance of the heart is natural, its muscular tissue bloodless but firm, the valves natural. Laying Arteries. open the Aorta; it has an Ivory colour with a tendency to a streak of blush on each side of the intercostal arteries; the coats are thin. The common Illiacs are of an ivory colour but the external and internal Illiacs are marked with small transverse rugæ or striæ. Laying open the larynx and trachea, the mucous membrane is found pale, Mucous memand this is continued through its pulmonary brane of the ramifications, which on both sides are healthy Pulmonary Tubes. yet the parenchyma posteriorly and inferiorly is slightly engorged with blood, but sections Tissue. of its Tissue only present a blush; otherwise, its appearance is perfectly healthy and natural.

On laying open the parietes of the abdominal Abdominal library, the peritoneum is found partially ad- cavity. thering to the Omentum around the wounds, Peritoneum. and dark sero-sanguineous fluid issues largely from the incision. The entire peritoneal surface of the stomach and small intestines, is of a brick red colour from capillary injection.

The abdominal cavity contains much effused Blood effused blood, * and in proceeding to remove the Viscera, ed. 110 ounces of coagulated blood are found near, (and which appears to have issued from) the Spleen spleen, as it is wounded on its external convex surface, near its centre, extending from the anterior, towards the posterior margin, (corresponding with the large external wound) then turning upwards, and forming the segment of a circle. A piece of the glass of a French Apiece of bottle is found deeply embedded in the wounded Bottle Glass Parenchyma of the spleen. The spleen is very deep in the large and weighs 13 ounces one drachm. The spleen. color of its internal tissue is a light puce, with Spleen's white dots. At the superior part of the external character. wound, about the centre, there is a patch of External ecchymosis, shewing that this part had sustain- contusion. ed a severe bruise. The Liver is of the natural Liver.

and coagulat-

^{*} There was no information of the quantity of blood lost, before he was carried to the Hospital.

Pancreas.

Midneys.
Mesentery.

Bladder.

Prostate.

Stomach.

Mucous coat.

Duodenum.

Jejunum.

Illium.

Lumbrici.

Ulcers.

Mucous coat destroyed.

Tubercles.

No Ruge. Cœcum contracted. size, soft and flaccid; Sections of its tissue pale and bloodless, but in its general appearance, natural yet coarse. It weighs 42 ounces avoirdapoise. The Gall bladder contains five drachms of healthy bile. The pancreas is pale, diminished, and weighs 2 ounces 3½ drachms. The Kidneys are natural and their parenchyma pale. The mesenteric glands are enlarged, and their internal tissue vascular.

The urinary bladder contained 10 ounces of urine. Its internal mucous coat pale, no columnar elevations. The Prostate gland is natural. Laying open the Esopharus, its cuticular lining is pale, and it terminates abruptly in the cardiac orifice, 12 ounces of half digested rice was found in the stomach. The mucous tissue of the stomach is pale and corrugated, with the appearance of small sunker strice in the inferior part of the small Curvature. Passing the Pyloric orifice, the surface continues pale and the rugæ irregular, until it has received the common duct. The ruge then become transverse and well developed; fourteen inches from the duct, the ruge assume a slight blush, but they continue well developed with occasional small tortuous terminations. Progressively, the ruge of the Illium become smaller, less regular, and the blush assumes a darker red, towards the centre of the Illium there is a honey comb ulcer five inches in length, and three lumbrici were removed from the superior part of the Illium. Progressively, numerous considerable honey comb ulcers are observed. The mucous coat becomes extremely thin, and the rugæ sparingly and scantily developed, until they (the rugæ) altogether cease. The surface becomes a brick red colour, and the mucous coat is apparently altogether disorganized. Numerous small white tubercles are here observed, studded in the muscular coat, towards the Cocum and Coco Iliac valve; and there are no traces of rugo, The Crecum is contracted extremely, its

internal surface pale. The mucous coat of the

large intestines is pale, with small contorted,

firm, irregular rugæ, in parts only.

Removing the scalp and skull cap, the Dura mater was extensively wounded by the saw on both sides. The arachnoid is quite transparent. The Pia mater is natural, The cerebral tissue is flaccid. Sections through the centrum Ovale parallel with the corpus callosum, shew very few bleeding points. The cortical substance is well marked. Separating the corpus callosum and fornix in the centre and turning the extremeties relatively backwards and forwardsshews the plexus choroides on both sides slight- Choroid plely blanched, and both ventricles contain a xus. little fluid. The anterior superior surface of the Thalami on both sides are slightly soften. Thalami. ed. The Optic nerves are wasted and very small Optic nerves. The vessels over the pons varolii are injected

The tissue of the Cerebellum is soft. The Base of the

Odontoid process is large. If the brain.

Removing the anterior arch of the spinal Spinal canal column, separating the intervertebral nerves and removing the cord in its Theca, the loose tissue lining the canal opposite the heart, Tissue of caand in the lumbar region is injected with sangui- nal neous gelatinized fluid. Laying open the Anterior sur-Dura mater of the cord anteriorly, there are face a few adhesions of the arachnoid. The capillary Adhesions. vessels of the inferior half of this surface are Capillary in-injected. About the centre of the cord, a small Nerves unifasciculus of nerves arising from the right side, ting anterior extends obliquely downwards and to the left to the cord. and is there lost in a fasciculus of nerves from the left side; the fasciculus arising on the left side, passed obliquely downwards and to the right, and having united itself with that fasciculus just mentioned, opposite the Posterior surcentre of the cord it returns to the left. Laying face. open the Dura mater posteriorly some ad-Adhesions.

Capillary incapillaries throughout on this surface are irrePia mater the whole extent is dark and slaty. The Equives dulland all nerves are also darker than usual in health. dark.

Colon, sigmold fllexure and Ructum Cranial cavity

Arachnoid. Pia mater Cerebral tis-Centrum ova-

Cord's tissue. The organization, colour, and consistence of the cord are apparently natural.

Resumê, or Analysis of the Autopsy.

Thoracic ca-

The Pulmonary vessels contain very little blood. I oz of serous fluid in the pericardium, all the heart's cavities quite empty. its tissue pale. The descending aorta internally has a streak of blush, external and internal illiacs are marked with transverse strice.

Blood effused and coagulated from the spleen, which has an incision about its centre and a piece of glass is extracted from the bottom of the wound in the spleen and dark blood continues oozing from it, the peritoneal capillaries are injected with blood, the Liver is bloodless and pale, the Kidneys pale, Stomach contained half digested food, its mucous coat pale and corrugated with strice in the small curvature mucous surface at first pale irregular rage, after the duct well developed. soon assuming a blush, inferiorly irregularly tortuous, inflamed, affected with honey comb Capillary ine ulcers, thin, loses the ruge and the mucous coat partially or altogether disorganized.

Spinal canal

Cranial cavity Membranes and cerebral tissue pale, natural, the thalami softened, optic nerves wasted

cerebral substance generally flaccid.

The lining tissue of the Canal is injected with semi gelatinized sero-sanguineous fluid, anteriorly in the Theca adhesions of the arachnoid, and inferiorly on the cord capillary engorgement, posteriorly there are adhesions of the arachnoid, capillaries throughout are injected irregularly, the Pia meter throughout is slaty, the Equinal nerves dark. The external cellular substance is copious, and muscular system well developed.

External cellular substance and muscular tis-ue.

The information afforded by the foregoing is The foregoing to be analysed, and divided into four considerations, with a view to confer accuracy and promptitude in recognising the symptoms of Diseases, in reasoning on their causes, origin, courses, effects, their modes of termination, and the principles calculated to influence their

divided into four conside

This Division embraces a review of the tissues actually diseased or altered by injury; the deration. ordinary causes of disease in each one of these Tissues; the order in which they apparently commenced, and their probable courses.*

Ist. Consi-

This second Division embraces a review of the Influence apparently exercised by the deration. diseases specified in this case over the general health, the effects which the Treatment adopted were likely to have produced; and causes of any marked symptoms previously observ-

2nd. Consi-

This 3rd Division embraces a review contrasting all the foregoing Information, and derationed shewing what the Diagnosis should actually have been at each time when formed, what should have been the indications of cure, and what would have been, the best course of Treatment to accomplish that object.

This Division embraces a review of what is considered to have been the more immediate deration,

3rd. Consi-

4th. Consi-

NOTE. - Medical Officers baving written out the first consideration in their Reports, they are then to insert their opinions in a separate paragraph on each point that consideration embraces. These being terminated, another consideration is to be entered, and the sebjects it involves are to be discussed, every distinct subject in a separate paragraph. The same course is to be adopted in succession until the case is concluded.

cause of Death; and of the mode in which, animal life in this instance terminated.

1ST CONSIDERATION EXAMINED.

The tissues diseased.

Diseases pre-

ease in the cerebral serous and nervous tissues.

Course of disease in the Thalami or cerebral tissue.

The Cerebral and nervous Tissues, the spinal arachnoid, the condensed cellular Tissue lining the arteries, and the Intestinal mucous membrane were the parts diseased.

Tissues injur- The Peritoneum and the Parenchyma of the spleen and its envelope were the parts altered

by injury.

Excesses either in drinking, eating, sexual sent, how in. intercourse, or exposure to the sun, to wet and cold or sudden vicissitudes of temperature, usually produce diseases of the serous, mucous, cerebral and nervous Tissues; and bence doubtless of the vascular Capillary system, (including the vasa vasorum) and the Cellular Tissues.

Origin of dis. The softening of the Thalami, wasting of the nerves, and adhesions of the arachnoid were, apparently all connected, by their originating from common causes or a common cause; and they were the most ancient of diseased affections; as the former would occupy some

years in attaining its present state.

Most probably an engorgement of the Vascular Tissue, entering into the composition of the Thalami, impaired the capillary action of that part, by interfering with the pervious condition of its very delicate system of Vessels; and hence, as the circulation became progressively less perfect, the natural Organisation of the Tissue, fell under the influence of the new laws imposed by the change from organic capillary action and in the same ratio that capillary action became impaired or its limits circumscribed, the cerebral Tissue became softened as a necessary consequence in a corresponding extent.

It seems uncertain whether the original afdisease in the fection of the Thalami was then extended to the Optic nerves or that they wasted from

Course of nervous tissue the softening of the Thalami only, of these theories the latter is probably nearest the fact, asthe consequence of the extension of impaired capillary action from the Thalami to the Tis-

sue of the Optic nerves.

It appears by the experiments of my learned friend Mr. M. Magendie, that there is always some fluid in the spinal Theca. I always found fluid, but they were cases of Disease: and to that cause I then attributed the presence of fluid. It seems obvious that the existence of fluid in excess, or the presence of adhesions, must indicate a deranged action of the exhalants of this surface. It is probable that the fluid exhaled in disease, may have properties different from those possessed by fluid of the same part in a healthy state. In the present case it seems very probable that a morbid effusion took place into the Theca, soon after the Thalami became engorged; because, a considerable apse of time must have been required to admit of that fluid becoming condensed into false membranes and forming adhesions, which existed in this case. Moreover the slaty color of the Pia mater clearly evidenced delanged capillary action.

This serous membrane in conditions of in- Course of disflammation, exercises that kind of marked in- ease in the fluence over the cerebral serous membranes, or abdominal that the Intestinal mucous membrane does, scrous tissue over the Pulmonary; or, vice versa. For Mais reason, peritoneal inflammations when not rapidly reduced, have a direct tendency to occasion meningeal engorgement and rapid for effusion, which latter, terminates in death.

In this instance notwithstanding the very extensive peritoneal injury which occasioned a brick red injection of the peritoneal capillaries, there was no approach to cerebral engorgement or effusion, in consequence of the extensive loss of blood.

This coat is subject to all modifications Course of disof sanguincous engorgement and inflammation, ease in con-

Course of disease on the serous tissue.

densed cellular tissue lining the arteries.

serious dissue.

Course of disease in the intestinal mucous tissue

and consequently to ulceration, softening, and disorganisation of its Tissue. In certain morbid states, the lining of the Aorta often resembles mucous membrane, by a humid, glistening, spongy appearance; and it is then darker than the interior of the arteries in health, specks of ulceration are observed on its surface, generally of irregular form and the superficies of the ulcer is coated with a puriform substance, giving the idea of a syp-Present case hilitic ulcer. The streak of blush in the Aorta, and decomposition of the lining membrane in the Illiacs, most probably ensued to that more bid action which resulted from the engorge ment of the Vascular system of the Thalami and the accumulation of blood in the Vasa Vasorum of the Aorta continued of a Chron nic or passive kind, whereas, in the Illiacs the deranged or impaired capillary action of the Vasa Vasorum, terminated in the soften ing and decomposition of the lining of that part, This surface is of very great extent, per

forms the most important offices, and in conditions of irregular life, it becomes pecu liarly subject to various causes, which induc modifications of inflammation, engorgement ulceration and softening of its Tissue. The Present case Blush on this surface, the irregular and in flamed rugæ, honey-comb ulcers, disappear ance of ruge, disorganisation of the mucou coat all indicate preceding capillary engorge ment, which progressively deranging the na tural capillary action of that part, and the Tissuc influenced by those laws, to which the existence of varied degrees of passive engorge ment or active inflammation subjected eac part, became either ulcerated, softened, diso ganised, or as the affection extended upward the vessels progressively became dilated l sanguineous engorgement.

Course of disease in the envelope and

The wound obviously must have produce copious hæmorrhage, but no special morbi change could have ensued immediately in the

Pissue beyond the direct solution of continuis tissue of the y, and the general effects resulting from ab- spleen. traction of blood from the Vessels; peritonial capillary injection necessarily commenced from the period of the Injury.

Sanst bone

2ND. CONSIDERATION EXAMINED.

The softening of the Thalami, and the wast- 'Cerebral and d state of the optic nerves, shew, that the sight nervous tissue

vas particularly impaired.

The injected tissue of the spinal canal, the Spinal arachdhesions of the arachnoid in the Theca, and noid piamater. he dark colour of the Pia mater on the cord osteriorly, and on the Equinal nerves, indicate, he former excess of previous exhalation, the atter, a chronic stage of Distase in the capilaries of that part. All these indications, mark hat the energies and functions of the nerves, both of Animal and Organic life have been in his Individual's case, greatly deteriorated and Heranged.

The blush in the Aorta and striæ in the Illi- Lining of the es indicate, the former a febrile state or ten- arteries. lency: the latter, an impaired vascular condilition, which according to observation, suceeds either to the course of some lingering

ffection or to an active disease'*

Bichat believed, that 4 of those who died Bichat's opt ad disease of the lining membrane of the Ar-

eries.

The Blush, irregular rugæ, the inflammation, ioney comb Ulcers, thinness, and apparently alterior decomposition of the mucous Intestihal coat indicate that the Individual experieneed much general ill health, with a very neryous condition of mind and body.

The natural state of the External cellular and nuscular Tissues, indicates that the digestive waste of adifunction and the absorbent and Lymphatic sys-

Ivo corebral

Mucous and digestive surface.

Digestion repaired the pose tissue.

^{*} I have detected this Blush in many cases, and it seems te me, intimately and extensively connected with morbid action.

of to prevent tems continued healthy, so far as to prevent up to the period of death, any undue wasting of parts.

Symptoms and treatment unknown.

The wound.

The symptoms that attended the progress of these diseases are utterly unknown and the Effects of Treatment, if any are equally so

In reference to the wound of the Abdominal parietes, peritoneum and spleen, and the protrusion of the Intestines; there is no exact history of the extent to which he lost blood, but as there was little or no pulmonary. cerebral or organic engorgement of any kind, except the capillaries of parts injured. it may be considered that the Hæmorrhage was very considerable. was tsninga sit of

No cerebral engorgement or effusion.

The absence of delirium and of coma. indicated there was little or no cerebral engorgement or effusion and the continuance of Vascular action for a considerable period after the accident, together with the less of blood concur to account for the capillary system of the spleen and the parenchyma or Tissue of all to ministhe great and important organs, containing ve y little blood, notwithstanding the food remained imperfectly digested in the stomach.

3rd. CONSIDERATION EXAMINED.

nomena not hastening death, and,

History wanting but the instructive.

sestion re-

Morbid phe- The considerations involved necessarily separate into those affecting certain Tissue, not immediately concerned perhaps, in hastening the accident, the death; and those injuries received by the accident which did unquestionably produce death.

The anterior history of the case embracing the symptoms the Diagnosis and Treatment. facts are very are wanting; but a very important observation arises which is: that an Individual may have of books all the external ordinary appearances of health -lbs lo stes and continue the discharge of his usual labours. for a considerable period after the most serious diseases have commenced their ravages, on Tissues of parts performing the most important offices in the maintenance of animal life.

Admitting the Diagnosis to have been, en- Assumed diaorgement and a tendency to softening of the snoels. erebral Tissue either of the Thalami, or in eir vicinity, and Chronic inflammation and cers of the Intestinal mucous membrane.

INDICATIONS OF CURE.

1st Reduce the Column of circulating blood ifficiently to relax all the vascular system, to imulate the Heart to draw in resources from all ttreme parts to enable the extreme circulatory apillaries to contract themselves, and to stimute the extreme absorbents more especially of e diseased part, to increased action.

2nd To occasion a determination from the ert affected, by forcing a concentrated deter-

ination to some neighbouring part.

3rd. The giving a continued series of shocks the capillary system, to call all their eneres forcibly into action.

4th, Perhaps to effect some change in the

iids; the Blood?*

5th. Deterge the mucous Intestinal coat. of me thickened viscid mucous that in most mord conditions adheres tenaciously to its entire rface closing the openings of the more delite Vessels, agglutinating the follicles and gæ; and being in effect interposed between e mucous coat and the Intestinal contents, it events that surface from exercising a healthy tion on the alimentary substances thus imperetly presented to it.

Cleanse the viscid mucous from the intestinal coat.

MEDICAL TREATMENT.

General blood letting, subsequently the ocsional application of Leeches, especially a- tion. band the Rectum.

1st. Indica-

This would be effected by a series of Blisters, d eventually, Issues, or Setons.

2nd. Indi-

^{*} All considerations affecting vascular action, are preusly provided for as before stated, stated and stated

cation.

4th. Indiextion.

5th, Indication.

Febrile cases.

Means used for the wound appropriate.

3rd. Indi- This would be effected especially by a series of blisters.

Alteratives, as small doses of mercurials, antimonials and the continued abstraction of serum by cantharides vesications, undoubtedly produce such marked effects as to warrant an opinion that in certain morbid conditions, the fluids are rendered more healthy, and capillary action is improved. 1770 onth

Either repeated doses of Ipecacuanha large or small, with or without Pil: Hydrarg: or combine, with Nitrate of Potass.

In other cases where there is a more marked febrile tendency Nitrate of Potass* 1 scr. muriate of Ammonia er. XV Aqua 2 oz. taken twice a day is most extensively useful.

The return of the Intestines and bleeding actually practised, were obviously the most appropriate means for Recovery: but in the case of such extensive injury, their advantages would he comparatively slight, and perhaps as regards the bleeding, only in a small ratio with its extent.

4th, CONSIDERATION EXAMINED

licemorrhage,

Tissues most

subject to en-

gorgement.

A large quantity of Blood was very suddenly poured out from the wounded spleen. all the organs from that moment suffered a large re duction from the columns usually distributes to them, the rational faculties were not abolish ed (but the animal powers weakened) because, the cerebral Tissue was not engorged; on the reverse it received a smaller supply of blood

In a general collapse of the system, in sinking however produced, and obviously in all case where vascular action is enfeebled. the tissu of all others the most subject to, and the mos endangered by engorgement, is the Pulmonar parenchyma, and the parts next in successio

[&]quot; This has been recommended by Hillary on the disease of Parbadaes, and I have found it extremely useful in the Diseases of Penang.

and the Pia mater of that substance, and of

The absolute reduction of the general circulating column; general exhaustion from the loss of blood, and the nervous exhaustion resulting from the injury, and its effects progressively aggravated by (perhaps the disease.) the partial failure of the cerebral energies from an insufficient supply of blood, and the consequent inability of the heart to draw in supplies, more especially those distributed to the pulmonary Tissue, or to distribute them in sufficient and equal proportions especially to the Brain; the operation of these causes necessarily conspired, to render the circulation less and less perfect at every systole. Acting more feebly, and sending X forth a column still more diminished yet some of which would no longer be returned again to the centre; by degrees the column more and more diminished, the brain no longer received a supoly sufficient for the maintenance of life, the current ceased altogether, and the heart having thrown out its latest supply into the arterial ubes that organ remianed empty, no farther supoly was determined to the lungs or brain and as with the progressive failure of supplies the powers of life declined in the same Ratio: so with the cessation of the current, animal life terminated.

Exhaustion induced, sink-ing, and collapse.

N. B. The humoral pathology is not entered into, because the schools are undecided on that question. Investigation is recommended, and the experiments and results are solicited from the profession.

the most endangered, are the Cerebral Tissue, and the Pla mater of that substance, and of

induced, sinking, and col-

The absolute reduction of the general circuof blook and the nervous exhaustion resulting ted failure of the cerebral coergies from an cability of the heart to draw in supplies, more especially these distributed to the pulmonary redt ; mierel adt at vilniasigen ennitsonorgelinge





SOME TIGHT GUTTERS

