A guide to medical case taking.

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A GUIDE

MEDICAL CASE TAKING

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AND

Teatment in Clinical Medicine in the Melbourne Medical School.

MARCH, 1906.

d & Bob, Printers, rear III Collins Street



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TO

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pbysician to the Melbourne Bospital,

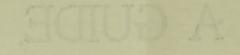
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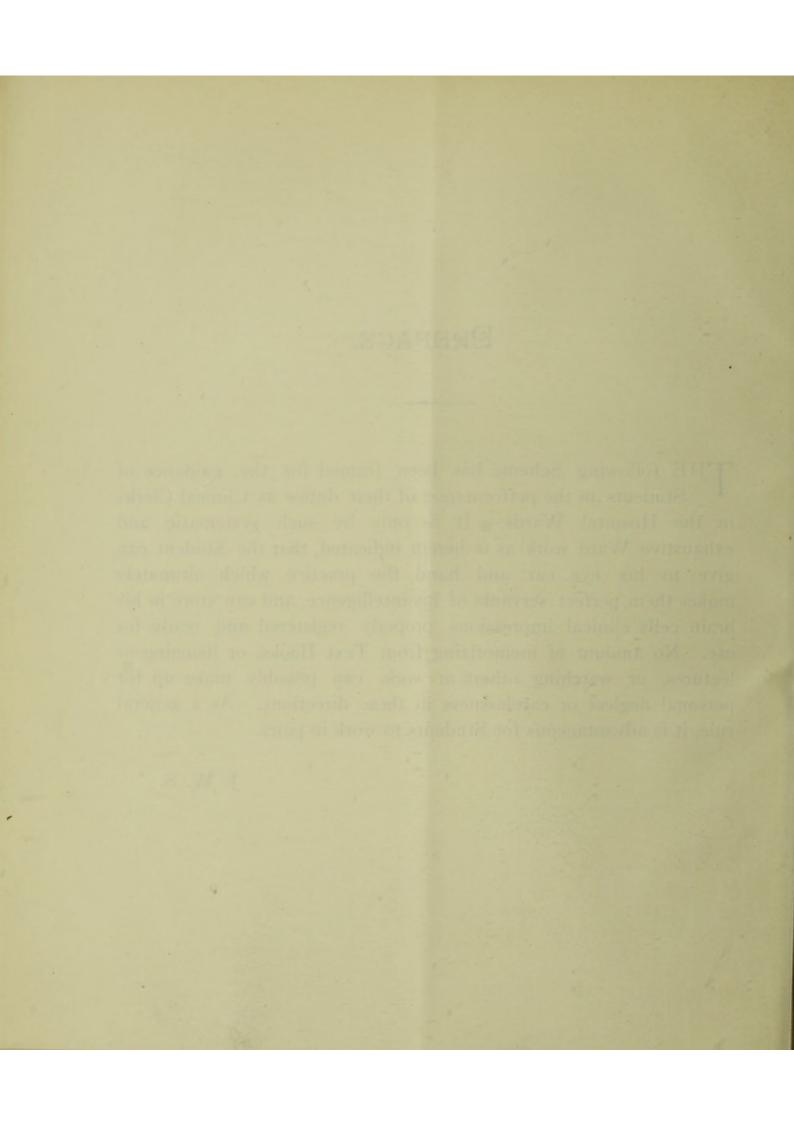
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M.X.K.C.H. 1906.

PREFAGE.

THE following Scheme has been framed for the guidance of Students in the performance of their duties as Clinical Clerks in the Hospital Wards. It is only by such systematic and exhaustive Ward work as is herein indicated, that the Student can give to his eye, ear and hand the practice which ultimately makes them perfect servants of his intelligence, and can store in his brain cells clinical impressions properly registered and ready for use. No amount of memorizing from Text Books, or listening to lectures, or watching others at work, can possibly make up for personal neglect or carelessness in these directions. As a general rule, it is advantageous for Students to work in pairs.

J. W. S.



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IDENTIFICATION.

PAST HISTORY-(a) FAMILY.

(b) PERSONAL.

PRESENT ILLNESS-(a) GENERAL STATEMENT.

(b) DETAILED ENQUIRY.

(c) CLINICAL EXAMINATION.

SUBSEQUENT RECORD.

INDEX TO CLINICAL EXAMINATION.

GRAPHIC REPRESENTATION—(a) BREATH SOUNDS. (b) HEART SOUNDS.

TEXT BOOKS AND CLINICAL MANUALS. Requirements from Students. The Basis—Self-Teaching.



TANT BOOKS 330 CURRENT

Scheme of Medical Case-taking.

1. Identification-

Name, Age, Sex (married or single), Residence, Date of Admission, Case Book (number and page).

)...(

These are the all important means of identification. They illustrate also the essential value of the commonplace.

2. Past History-

(a) FAMILY.

Age, Health, Cause of Death of Parents, Brothers, Sisters, Children (at times also of Grand Parents, Uncles and Aunts). Cases of Asthma, Bright's Disease, Bronchitis, Cancer, Consumption, Epilepsy, Gout, Heart Disease, Insanity, Paralysis, Rheumatism.

(b) PERSONAL.

- As a child, strong or delicate, home and school life, attacks (slight, severe, sequelæ) of Chorea, Convulsions, Diphtheria, Epilepsy, Measles, Pertussis, Rickets, Scarlatina, Tubercle (bone, gland, lung). Personal Liabilities. Temperament. Development. Occupation (effects). Habits, (Drugs, Meat, Tea, Tobacco, Spirits, Wine, Beer). Functions (digestive, eliminative, nervous, sexual). Injuries. Attacks (date, duration, sequelæ,) of Anæmia, Asthma (nervous, bronchial, peptic, cardiac), Bronchitis, Catarrh, Colic (flatus, gall stone, renal, appendical), Headache (site, character), Diarrhœa (character of stools), Dyspepsia (disease of stomach), Heart Disease (functional, organic), Hydatids, Influenza, Jaundice, Kidney Disease Liver Disease (including Diabetes), Malaria, Neuralgia, Neurasthenia, Neuro-Mimesis, Paralysis, Phthisis, Pleurisy (dry, wet), Pneumonia, Rheumatism (muscular, gonorrhoeal, joint, cardiac). Sexual Disorders. Typhoid.
- The investigation under 2 (and 3) should be much more than simple question and answer. Experience and watching the methods of skilled examiners will, in time, teach what to ask, and how to ask it. There are "more false facts than false theories." What are commonly called "facts" are really the combined representations of patient and examiner, and may not only be incomplete but also blurred by self-interest, ignorance and predilection. As a rule the best answers are obtained from women, and female relatives. Questions of a personal character, such as drinking, hysteria, insanity, &c., are better put indirectly. Other than ordinary sexual matters are best left to the physician. The aim throughout, should be to secure a true and sufficiently complete record, and this is greatly helped by making the patient see that he (or she) is fundamentally interested therapeutically, and that the examiner's attitude whilst sympathetic is entirely professional. In chronic cases this preliminary investigation, together with the subsequent detailed enquiry and Clinical examination, should be made as soon after admission as proves convenient. In special and acute cases, however, all three should be conducted when and as the physician may direct.

Scheme of Medical Case-taking

Past History-

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3. Present Illness-

(a) GENERAL STATEMENT.

- Having thus ascertained the past, the next step is to determine the present. By way of introduction the following general information should now be sought. Most of it will be found already recorded in the Ward Case Book.
- Date and mode of onset. Patient's own account (or friends'). Other notable symptoms. Supposed cause. Previous treatment. Height, weight (present and average). General appearance, nutrition, tongue, appetite, bowels, urine, sleep, pulse, temperature, respirations.

(b) DETAILED ENQUIRY.

- The physician in charge having made a provisional diagnosis, the student should from his Text Book, make himself a synopsis of what the disease really is (Pathology), how it is brought about (Etiology X, efficient Y, exciting Z, predisposing), and how it shows itself (Symptomatology). He should remember that Pathology is Physiology in difficulties, and that Symptoms are the results of disturbed structure (Anatomy) and function (Physiology). This Synopsis should be the crystallization of what he has carefully read and observed. It should omit nothing worthy of notice, and give each detail its relative value, and its proper setting. To be personally useful, it must be personally produced, and the student should be able to visualize from it not only the salient points, but the whole picture of the disease. With his synopsis in hand, he should patiently, impartially and tactfully question the patient upon all the points therein disclosed, and record the results.
- (c) CLINICAL EXAMINATION.
- The Detailed Enquiry should be followed by the Clinical Examination. This is the conclusive verification and amplification of what should have been suggested by the previous statement and enquiry. It is the end and aim of all clinical study. It should be careful, thorough, systematic, and along the lines of a recognised Clinical Manual. In making his examination the student should deal first and mainly with the system primarily at fault, then follow with the others in order, but in less detail. Throughout he should adopt graphic representation as far as possible (charts, diagrams, photos, skiagraphs, tracings, shadings, colours, etc.).

4. Subsequent Record.

- Henceforward the student should from time to time compare the Course, Symptoms, Complications, Sequelæ, Treatment, and wherever possible the Pathology, with the corresponding descriptions in his Text Book.
- IN ACUTE CASES he should daily enter notes of the Progress and Treatment (writing all prescriptions in full). He should place on the Temperature Chart not only the temperature, pulse, and respirations, but also the day of disease, salient treatment, hours of sleep (with or without drug), state of bowels, urine, Widal reaction, leucocyte count, etc.
- IN CHRONIC CASES he should make a weekly summary.

In all he should never fail to see the Post Mortem examination whenever one is made.

This subsequent record is necessary both to round off the history of the case, and to complete the student's knowledge of the disease. Further, it affords valuable practice in the art of observation, and in the methods of reporting.

Having thus ascertainial the part, the next step is to determine the presents will way of introduction the following general (aborination should now be sensity, blost of it will be bread already recorded in the Ward Case Spok.

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Index to Clinical Examination.

- The following may be taken as an *Index* to the procedure in Clinical Examination. It is simply a classified collection of clinical sign-posts. Unless the student has mastered the explanations, which are given in the larger Clinical Manuals, he cannot properly understand the directions, and these will remain comparatively valueless until he has put them to practical testing. Though fairly complete, they are neither exhaustive nor final.
- (a) INTEGUMENTARY SYSTEM—Skin as regards Color (pale, flushed, earthy, waxy, chlorotic, yellow, bronzing, pigmented), Moisture, Eruption (macules, papules, vesicles, pustules, scars, hæmorrhages, erythema, parasites), Oedema, &c.; Eyes (conjunctiva, cornea, tension, pupils, arcus, lids); Face (peritonitis, dyspnoea, phthisis, pneumonia, hysteria, kidney, thyroid, typhoid, mask Hippocratic, mouth breathing, specific), Nose (sunken, red, pinched, etc.), Lips, Hair, Fingers (spade, claw, cold, waxy, clubbed, distorted), Nails, Glands, Joints (size, shape, color, position, mobility, deposits).
- (b) DIGESTIVE SYSTEM—Odor of Breath, Gums (color, spongy, deposits), Teeth (state, peculiarities, specific), Tongue (coated, raw, irritable, indented, fissured, strawberry, dry, brown, ulcer, etc.), Thirst, Nausea, Vomiting (times, character, duration, contents,) Pains (seat, character, effect of food), Dyspepsia (flatulent, acid, nervous duodenal), Bowels (frequency, contents, worms), Rectum (piles, prolapse, stricture, pruritus, tenesmus), Nutrition, Cachexia.

INSPECTION—Dilated Veins (portal, general), Obesity, Tympanites, Ascites, Tumor, Enteroptosis.). PALPATION—Tenderness (deep, superficial), rigidity, flaccidity, fluctuation, enlargements, tumors). PERCUSSION—Stomach, intestine, perforation, fat, oedema, effusions, tumors, etc., change of posture. Stomach capacity, movements, test meals, contents (mucus, blood, food, germs, acid).

(c) RESPIRATORY SYSTEM—Nose (discharges, alae, blockage, adenoids, closed nasal voice). Lips (herpes, color). Tonsils (enlarged, ulcer, pus, membrane). Fauces (paralysed, specific, open nasal voice). Pharynx (granular, ill nourished, ulcer, etc.). Larynx (vocal cords, voice husky, brassy, whisper, spasm). Cough, site (nasopharynx, larynx, bronchi, lung), cause (nervous, irritable membrane, secretion, reflex), character (dry, loose, hacking, morning, paroxysmal, with vomiting). SPUTUM, quantity in 24 hours, site, character (frothy, muco-purulent, nummular, blood-tinged, asthmatic, prune-juice, fœtid, gangrenous), contents (leucocytes, hydatids, crystals, casts, elastic fibre, germs). DYSPNŒA, extent, cause (anaemia, heart, spasm, pain, fever, emphysema, obstruction). Orthopnœa. Stertor (nasal, oral, cerebral). Stridor (tracheal, laryngeal). Hæmoptysis (nasopharynx, cardiac, vascular and lung disease), frequency, quantities.

Index to Clinical Examination.

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BREATH SOUNDS, Vesicular (weak, puerile, rough, wavy, cogwheel, prolonged expiration, bronchial inspiration or expiration), Bronchial, Cavernous, Broncho-Vesicular, Broncho-Cavernous, Vesiculo-Cavernous, Amphoric. RALES, consonant and non-consonant, (small, medium, large, mixed, gurgling, tracheal râle). Crepitation (fine, redux). FRICTION (fine, coarse, pleuro-pericardiac). VOCAL RESONANCE, normal (N), increased (+), diminished (--), absent (0), Bronchophony (Br.), Aegophony (Ae.), Pectoriloquy (P), Metallic tinkling (M.T.), Succussion (Su.) Biermer's, Friedreich's, Gerhardt's, Wintrich's phenomena.

(d) CIRCULATORY SYSTEM—Palpitations (cause). Pain, (gastric, angina, neuralgic, friction) Dyspnoea (at rest, on exertion, constant, paroxysmal, orthopnoea). Syncope, Dropsy (since when, feet, body, abdomen, evening. Cyanosis— Cold extremities.

INSPECTION—Bulging, retraction, apex beat (site, extent, character), pulsations (abnormal, cardiac, venous, capillary). PALPATION, apex (site, extent, strength), thrill (site, time), friction. PERCUSSION (representing superficial dullness by vertical, deep dullness by horizontal shading, or by blue and red colouring), normal, (n) diminished (—), increased. (+) upwards, downwards, to the left, to the right. AUSCULTATION—represented graphically (vide appendix B).

HEART SOUNDS—Max., intensity, transmission, character (faint, valvular, loud, muffled, delayed, accentuated, reduplicated, short, tic-tac). Rhythm (regular, irregular, intermittent). Tachycardia. Bradycardia. Murmurs (max., intensity, transmission, faint, rough, blowing, musical, single, multiple), time (systolic, diastolic, praesystolic). Pericardiac Friction (the serrations being placed in their relative position in the cardiac cycle), venus hum. ARTERIES (hardness, tortuosity, visibility, murmurs). Arterio-sclerosis. Aneurism. PULSE (parvus or magnus, durus or mollis, celer or tardus, dicrotus, vacuus, alternans, etc., as shown by Sphymograph). Blood Pressure, by Manometer.

(e) URINARY SYSTEM-MICTURITION (frequency, pain, size of stream, nocturnal (since when). KIDNEY (movable, enlarged). PAIN (lumbar, ureter, vesical, testicular, urethral). BLADDER (size, incontinence, retention, stricture, suppression, discharges). PROSTATE (rectal exam.). URINE, quantity, color, odor, reactions, specific gravity, albumen, sugar, bile, blood, pus, phosphates, etc., quantity of sugar, albumen, urea: sediments, casts, spermatozoa, organisms.

Other PATHOLOGICAL FLUIDS (hydatid, cerebro-spinal, ovarian, parovarian, ascites, hydronephrosis, etc.).

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Other Tarmononcan Fritting flydarid, candlen spinne, commune period at the

- (f) NERVOUS SYSTEM-DISTURBANCES OF CONSCIOUSNESS (hebetude, somnolence, stupor, coma, coma vigil, epileptic). Delirium (quiet, muttering, ferox, hysteric, alcoholic). DISTURBANCES OF INTELLIGENCE-Weak, stupid, imbecile, memory (recent, old), illusions, hallucinations, delusions (variable, fixed, persecution, grandeur). Insomnia. Mania. Melancholia. General Paralysis. Dementia, Neurasthenia (cerebral, spinal). Neuromimesis (hysteria). DISTUR-Stigmata. BANCES OF EQUILIBRATION-Vertigo (gastric, ocular, auditory, vascular). Gait-(hysteric, steppage, cerebellar, waddling, ataxic, spastic, festination). Headache (site, character, causation). Speech-lalling, scanning, slurring, aphasia, (hysteric, sensory (word deaf, word blind), motor (vocal, graphic), conduction), mutism. Handwriting-(name, from dictation, from print, essay), tremor, inequalities, incoherence, omitted letters, syllables, words, wrong words, jargon, repetitions, etc.) Cranial Nerves-I. (smell, rhinoscopic). II. (acuity, field, color, III. and VI. (squint, movements, ptosis, diplopia, nystagmus, pupils fundus). (size, reaction, accommodation). v. (sensory, motor). vii. (central, nuclear, peripheral). VIII. (air, bone conduction, tinnitus, otoscopic, Rinné). IX. X. and x1. (taste, swallowing, voice, breathing, pulse, vomiting, vocal cords). X11. protrusion of tongue, movements, fibrillar, atrophy). Motion (vide localization in diagrams in Clinical Manual), paresis, paralysis (psychic, Rolandic, capsular, basal, spinal, peripheral). Convulsions (clonic, Jacksonian, tonic, reflex). Tremors (fibrillar, intention, hysteric, P. agitans, senile, choreic, febrile, toxic, athetoid). Contractions (active, passive, Kernig). Ataxy (cerebellar, spinal, hereditary), Dynamometer. Sensation (vide localization in diagrams in Clinical Manual). Touch, Pain, Temperature, Pressure, Muscular site (cortex, sensory peduncle, spine, periphery). Tenderness (spots, nerve trunks). Reflexes (vide segmental localization in diagrams in Clinical Manual), cutaneous, Babinski, tendon, organic (ciliospinal), vasomotor, genital, rectal, vesical). Romberg. Trophic-Muscle (pseudo-hypertrophy, atrophy, (inactive, degenerative, progressive, nuclear, neuritic, arthritic, myopathic). Skin (glossy, herpes, pigment, gangrene, ulcer, decubitus). Arthropathy, Fragility, Acromegaly. VASOMOTOR (dilator, constrictor, tâche, dermographism, etc.). Electrical Reactions-(quantitative, qualitative, degenerative). v. Ziemssen's motor points.
- (g) REPRODUCTIVE SYSTEM—Male—Functions (abnormal, excessive). Gonorrhœa (bubo, stricture, gleet). Syphilis (date, symptoms, treatment). Examination of Sexual organs. Female—Catamenia (date of onset, regularity, duration, amount. Amenorrhoea. Menorrhagia, Dysmenorrhœa), Pregnancy (signs and symptoms), Miscarriages (time, causes). Climacteric (date, depression, vasomotor). Intermenstrual discharges (leucorrhoea, gonorrhœa, blood). Syphilis (miscarriages, scars, children, &c.). Examination of vagina, cervix, uterus, ovaries, appendages, rectum, Associated Ailments (pelvic, reflex, psychic).
- (h) BLOOD SYSTEM—Haemoglobin. Color Index. R.B.C. (number, percentage of normal, micro-macro-poikilocytes, tinctorial changes, granular degeneration, normoblasts (regenerative), megaloblasts (degenerative). W.B.C. (number, percentage of polynuclear (phagocytes), transition, large mononuclear, lymphocytes, myelocytes (marrow), eosinophiles, mast cells, plaques). Anæmia (primary, secondary). Leucocytosis, Lymphocytosis, Leucopenia, Myelocytosis, Eosinophilia, Plasmodium, Filaria, Germs, anti-bodies. Widal, Tuberculin reactions, etc.

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Rassonnative Sverey - Mede - Emeridant (attainmath everessive). Conditions (babo, stricture, glaci). Syphylis (data, symptoma, teamment). Examination of Sexual organs. Freede - Catamenia (data symptoma, teamment), duration amovant. Amenoriticea. Menorrhedia. Dysocoarrhitea). Frequency, duration symptoma). Miscaeviden (time, caused). Chinactaric date, depression, vresinstan, Intermenenticea. Menorrhedia. Chinactaric date, depression, vresinstan, Intermenenticea. Menorrhedia. Chinactaric date, depression, vresinstan, Intermenenticea. Menorrhedia. Consister date, depression, vresinstan, Intermenenticea. Acc.). Examination of vagma, cervit, uteau, ovaries, apodedages rectum Associated Allments (privee, reflex, psychic).

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Graphic Representation of Breath Sounds.

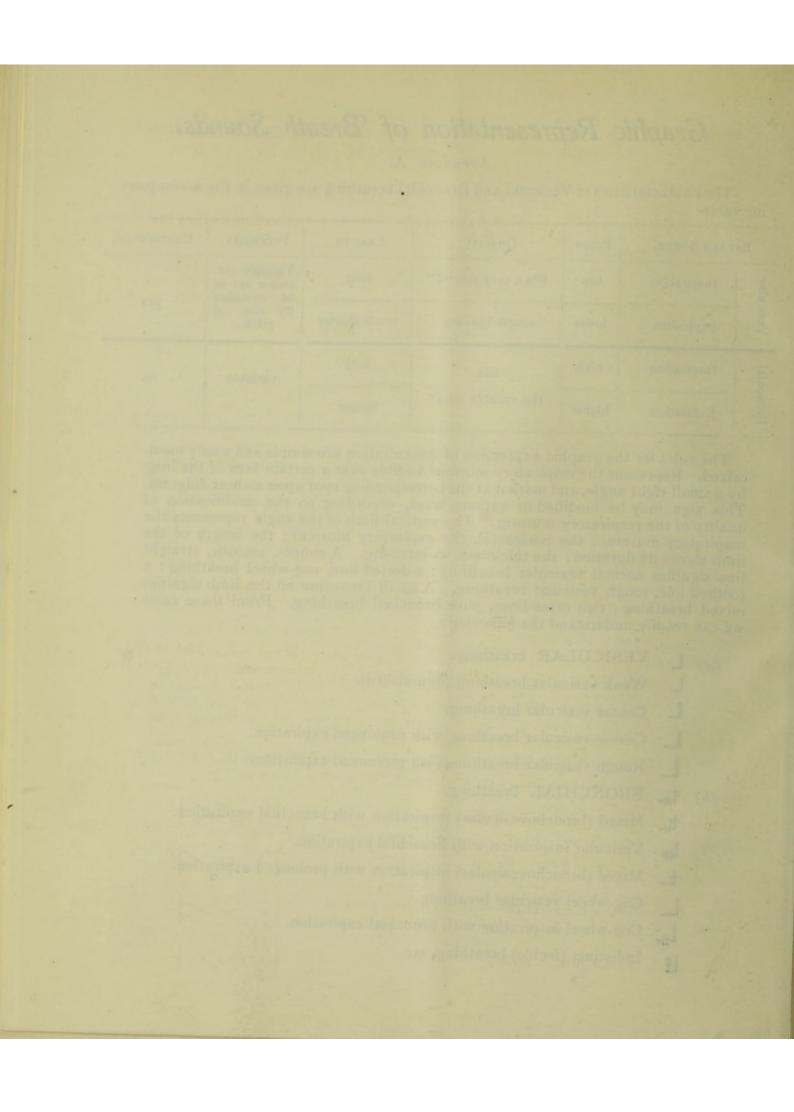
APPENDIX A.

The characteristics of Vesicular and Bronchial breathing are given in the accompanying table.

BREATH SOUND.		Рітсн.	QUALITY.	LENGTH.	INTENSITY.	CONTINUITY.
Vesicular	Inspiration	low	like a very soft "f"	long	Variable—in- crease apt to be mistaken for rise of pitch.	yes
	Expiration	lower	simple blowing	much shorter		
Bronchial	Inspiration	high	like long variable the syllable "ha" longer.	no		
	Expiration	higher		longer.		

The rules for the graphic expression of Auscultation are simple and easily memorized. Represent the respiratory murmur audible over a certain area of the lung by a small right angle, and mark it at the corresponding spot upon a chest diagram. This sign may be modified in various ways, according to the modification of quality of the respiratory murmur. The vertical limb of the angle represents the inspiratory murmur; the horizontal, the expiratory murmur; the length of the limb shows its duration; the thickness, its intensity. A simple, smooth, straight line signifies normal vesicular breathing: a dotted line, cog-wheel breathing; a toothed line, rough vesicular breathing. A small cross-line on the limb signifies mixed breathing; two cross-lines, pure bronchial breathing. From these rules we can readily understand the following:

- (a) L VESICULAR breathing.
 - L Weak vesicular breathing (diminished).
 - L Coarse vesicular breathing.
 - Coarse vesicular breathing with prolonged expiration.
 - Rough vesicular breathing with prolonged expiration.
- (b) the BRONCHIAL breathing.
 - tu Mixed (bronchovesicular) inspiration with bronchial expiration.
 - Vesicular inspiration with bronchial expiration.
 - + Mixed (bronchovesicular) inspiration with prolonged expiration.
 - Cog-wheel vesicular breathing.
 - ... Cog-wheel inspiration with bronchial expiration.
 - 1? Indistinct (feeble) breathing, etc.



(c) RHONCHI (air obstructed by cause other than fluid) may be represented Sibilant)(Sonorous,)(

(d) CREPITATION, 1

(e) RALES (air bubbling through fluid) may be represented according as they are-

Non-F	Resonant.	Resonant.		
00	Large, coarse.		Large, coarse.	
	Småll, fine.	.:.	Small, fine.	
000	Medium.		Medium.	
°8°°8°	Mixed.	::.	Mixed.	
000	Gurgling.	•.•	Gurgling.	

Inspiratory râles may be designated by prefixing the letter "i"; expiratory, by prefixing "e."

(f) A PLEURITIC OR A PERICARDIAC RUB may be designated by: MM, MM If it is possible to confuse a pleuritic with a pericardiac rub, "pl" or "pe" should be prefixed.

Graphic Representation of Heart Sounds.

APPENDIX B.

Represent the heart sounds graphically at the apex by a trochee, --, and at the base by an iambus and verbally by tá-ta and ta-tá. Represent a reduplicated first sound by an anapaest --, and a reduplicated second sound by a dactyl --. Represent the heart murmurs verbally by "f" or "ff," according to intensity, and graphically by a crescendo sign for an increasing and a decresendo sign for a diminishing murmur.

The murmurs of the different valvular lesions, together with their tones in their proper time relations, may then be represented as follows:

> κ ~> κ κ ~≫ κ ~ ∢

Presystolic accentuation of diastolic murmur.

Pure presystolic murmur (most common).

Diastolic murmur accentuated at the beginning and at the end of diastole.

Pure diastolic murmur (least common).

HONCHI mir obstrouted by cause other than flowly may be represented.

ALCREPTIATION. L.

ext. Els par imbhling through fishill max listrepresented accerting as they are

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Insparatory tales may be derignated by pretiving the letter "1", expiratory, by

ANA PLEURITIC OR A PERICACIAN RUB any or designation by MAAn MAN III is possible to confige a plantic with a pericardiat rub, "pl

Graphic Representation of Heart Sounds.

Its measure the heart sounds traphtcally at the aper by a morney - , and a line of the second a cound by a many second second second by a second by an adaptive of a second a relaphtcated second second by a seco

The macange of the deflerent valuater lossons, togethar with their toget

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Dies presidents morner (bloss contented).

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traine dimetalic manual france commical

K>~ K>~ Mitral insufficiency táf-ta, táf-ta. Tricuspid > -Aortic stenosis taf-tá, taf-tá. Pulmonary Aortic insufficiency -> 1 ta-táf, ta-táf. Pulmonary 44 Mitral stenosis ftá-ta ftá-ta. Tricuspid .. Mitral insufficiency and stenosis ftáf-ta ftáf-ta Tricuspid insufficiency and stenosis Aortic insufficiency and stenosis >--> taf-táf taf-táf Pulmonary insufficiency and stenosis 4>~> | Mitral and Aortic Insufficiency táf-taf táf-taf 4>->0 Both with Mitral Stenosis also ftáf-taf ftáf-taf

[The graphic representations in A and B are taken (with slight modifications) from Sahli's Bern Clinic. They are simple, suggestive, and satisfactory.]

TEXT BOOKS-

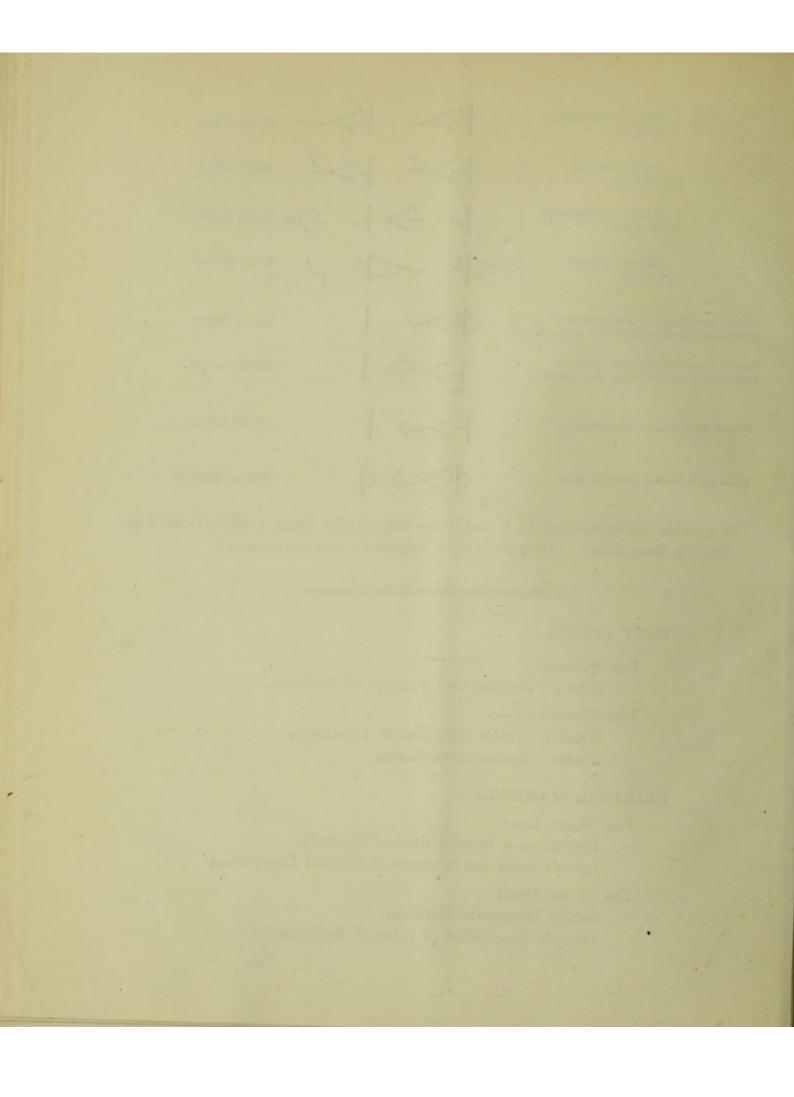
FOR SYNOPSIS: Osler's Principles and Practice of Medicine.

FOR REFERENCE— Mitchell-Bruce's Principles of Treatment. Allbutt's System of Medicine.

CLINICAL MANUALS-

FOR WARD USE: Hutchison & Rainy's Clinical Methods. Jakob's Atlas and Epitome of Clinical Diagnosis. FOR HOME USE: Sahli's Diagnostic Methods.

Butler's Diagnostics of Internal Medicine.



REQUIREMENTS FROM STUDENTS.

The due performance of the foregoing demands from the Student :

- (a) The taking of a **History** of each case along lines such as those laid down in the Guide (paragraphs I, II, III).
- (b) The preparation from Text Book of **Synopses** of the Pathology, Etiology, and Symptomatology of specified diseases, and their bedside applications to actual cases under observation.
- (c) The bedside use of one of the smaller Clinical Manuals for purposes of Clinical examination, along lines such as those laid down in the Index.
- (d) The home study of one of the larger Clinical Manuals for the understanding of the meaning of Clinical terms and methods of Clinical procedure.
- (e) The home study of **Text Books** in regard to questions of Diagnosis, Prognosis, Clinical History and Treatment, and their bedside application to actual cases under observation
- (f) A prompt, careful, and continuous Record of all the pertinent facts observed.
- (g) Continuous **Clinical Work** in the Wards for some hours daily, supplemented (wherever desirable and available) by further investigations in the P.M. Room and in the Pathological and Bacteriological Laboratory.

THE BASIS-SELF-TEACHING.

The whole scheme of Clinical Study thus outlined is totally opposed to any system of spoon-feeding. It pre-supposes, of course, expert guidance, and adequate means, and material. But it provides, simply, an accredited plan of campaign, and it requires the student to teach himself. Only thus can he attain his maximum Clinical efficiency.

REQUIREMENTS FROM STUDENTS.

(a) The subirs of a Mistory of each case since lines and as those fail from is a sparagraphs i. H. Hit.

(*). The comparation from Your Four of Synapses of the Pathology, Etcology, and Sympsomatolog, of specified diseases, and disc. becaude application of second years under observation.

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THE BASIS-SELF-TEACHING.

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