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Practice of Medicine

Dr Howard

"~~Physiology~~"

W. Osler

1871

Materia Medica

from Feb 12th all clue

Elements.

10/10/71

Nitrogen principles diff from all other, only ones with vital properties. Tissue or fur a combn of pox prin wh has & can repair the waste of tissues & phenomena are different from all others. Contact with the blood is needed. Their prope peculiar. reaction neutral. all have N. all resemble albumen wheel called albumen. & as a comp of base Protein Catalysis is a change of process by Berzelius. by the mere presence of another substance which has no change itself fermentation is an example. Putrefaction is another instance. Mutual & digest examples for repair cetaceous substance. In digest organ elements changed in digest fluid.

Table liquid. ones albumen, albumose, fibrin, musculin, casein semisolid. cyclic gelat chondr. Ect. Haem. Melanin. Again divided. 1st class or compon of Protein. 2 the gelat & 3rd the colouring matter of blood. Table. Fibrin. alb. alb. casein Protein, aft. SS. Mulder showed that all were comp of this as a base with Ph & S. was generally received. To obtain but will Al & alb & HCl dissol in K & precipitated with acetic acid. Analysis has shown that compose, indefinite an artificial product. not a distinct chemical. substance not a proximate principle. Albumen. gold white of egg is most important as is basis of all the tissue, it fat of it with bones. mus. &c. is develop from nutrient of egg 2 fact alb of blood dr to tissues for the maintain 3 azotic sub must be reduced it before it can be used by tissues. In body in 2 sta, fluid & solid. 1st as seen chyle. & in all these fluid alb. exist united with Na. as alb of soda. & exists in blood. & is very soluble in water. Solu is very 1 combn with Na. Solid. form of tissue bone & pend. & mucous membranes. Not normal in excretions but in disease

also in effusion of serum. Tests 1st alcohol, ovarol. acids
lam. heat. metals. salts. Corrosive sublim. Best are heat & prog. a
mod. ctr. limit at 140 & insol. at 145 but if deliv. must
heat to 194. Follow prevent. on add of acc. of alk. or free acid cea
in b coag. by heat. but is thrown down by these neutralized. On ott
coagu. of heat evider that cont. albu. but somet. obtain pr. in
urine. but easily phosphates, wh will dissolve in acid. As rule
when coag. by heat & mineral. it is alb. Coag. by heat reder. ad. by cear alb.
in HCl with heat & soln. has purple colour. useful in testing
blood. As org. composit. Sherer. 54 Mulder

C	54.9	53.4
H	7.0	7.1
N	15.7	15.6
O	—	22.3
S		
P	24	1.3

Origin of it. chief by animal food & a little pr. veget. constit
fal serial grasses. as almon. milk, veget. juices. In short
has org. pr. all albo'd elements of the food. Uses, forms organ
mil. of blood. & is the orig. pabul. for organ. tissue. & pr. fibr.
globe & hees. In nutr. it undergoes catalytic transformation in blood
seems union of fibr. and alb. alb. of whol. of org. cannot be
assum. in blood. but blood can showing that is in this stat.
used in nutrition. As a rule never dissolv. as albu. from blood
When an excess myr. effect appr. averted by retr. gr. melan.
wh it undergoes. eff. by decompos. & elim. by urine & bile
Albumine. of late found by Meyer for albo alb. not true beta
organ. rule. elem. & true alb. in blood. after digestion contain
in stomach & intest. fluid. diff. for alb. coag. by alcohol. &
salt. for not by heat & insp. by mag. Acet. will & coag. will dissolve
in excess

more endosmotic than albumen. This favors introduction into the blood, want of that corner who ought to take place as they are rather albin than albumen. If remains as albumen more, Also ign in rat elements of food, by its endosm prop it gets into the blood & changes to albumen. Fibrin. exists in solid & fluid. sol in mus & fib. fl. in blood. Nat soln is in chyle. close allied to alb. all shown no tends to coag & pointer while fibrin slow tends to pass into tissue. Clot form by solidif of fibrin. arrangement of clot ten the fibrillation of fibrin. This change cannot be accom by chem is vital. When pu while ops lasting & mod. hard which. insoluble in wat & alcoh & alk. by long in wat. sol. acetic acid gut a gelat. alkal solve it & HCl. Process by cutting a blood clot up & wash the fibrin. Get by whip with bundle of rods. also get by agetn in a boll with shot. One ordinary in quantity. hypeplas or hypeanos. dec hypoplasm. When exist are healthy oplastic when deteriorate caeoplastic & who defn in plas. Aplastic. Tests for it. che dist by coag. pr with alb. by K not by acet a or ann. & by ether insol in H_2O al sc. & sol in HCl. dis by Fer g of Pot in wale swells up. best the mucous Composit question of pure. follows are analyses

	Sheen	Mulder
C	53.37	52.7
H	6.893	6.9
N	15.72	15.4
O	— — —	23.5
S	23 — — —	1
P	— — —	1.3

Bet to contain more oxy than alb. Origin

Bilirubin, like haemat in bile, & is discharged in faeces
Urosein gen ambe colo to urine, [illegible] but [illegible] alt
& other is form at expense of haem in the Kidney
Sources processes by which made fit. All prox fm excl in
veg or ani arti of food, abt from thereby digestion & rendered fit
for blood. Experiments to show, that a mixed diet is best.
& those who live on vegetables, & the carnivore Hondoo, but can if enfor
ced from early infancy. Long known that if my pk habit
be ann or veg diet & then confined to one or other exclusive veg.
Lehman came to same conclusion, he confined to ann diet
for 3 week & then veg for 16 days. Then on non-nutrient [illegible] able
to [illegible] it for only 3 days. Hammond lived 10 days on a diet of
starch & water, debility, palpit of heart. No single class sufficient
all groups must be used, albu 1st in importance, but Farm & Organ
matters needed too. Inorganic matters also requisite, for a man may
be clear to devoll by Ref Mem of Nacl. or PCoz.
Secondary organic principles the result of decay
following table from Todd & Bowman. {Urea, Uric acid, Creatine &
Creatinin. Cholesterin Biliary matters} all effects, Pepsin Sugar of Milk
Lactic acid Some useful, 1st fore effects, Pepsin & lactic acid subsers
to digestion. Forg in following particle become useless & absorbed
into ~~[illegible]~~ blood & there transformed for excretion

Blood

Form organ elem the dig & assim proc for the blood
In all ages. the imp of it recognized &c. as in nature c thick opaq
by in col fr scarlet to purple. holds in solut all elements. F. all
fully mat serum & salts & bl corpus.

Water, Fibrin, albumen, Salts, Fatty matter, Ext matter } in solution forming the Liq Pang or Plasma

Corpuscles

This is the outline of composition of blood
from this each solid tissue appropriate necess

there elem either present & can be made from it by a catalytic formation, & also effete matter is in it as urea & has gases chiefly as CO_3, O, N & tra of NH_3. Temperature of blood for 98 – 100 but vg in diff pts of system indep of cold. Bern has established follow fact. 1st warmer in right than left he 2 war in outer than veins. 3 gener warm in portal veins than abdom aorta indep of digest. 4 const warmer in hepatic vein than portal for 101 to 107 # in aorta 99–105. May assure that temper is for 100 – to 107 F. Reaction always alkaline. Taste salted. Odour, a faint resembly the pulm & cutan exhal of air developed by H_2SO_4. Sp grav, is variable for 1050 – 1059 ave 1055. Cause of variat is due to vary propr of red corpus. which 1088½ while Leg & angus is only 1028. Hence vary to leg of men blood is greater than that of women & robust persons higher than feeble. Sp gr always dim by bleeding & that last drawn less than 1st drawn. First chr is coagulat, the death of the blood, for rendered unfit to maint vital form. Elements arrand thus

Cause due to fibrillat of fibrin & corpus are involved & clot is reddish but in some diseases, the clot is colourless & buffed	in coagulat: Fibrin, Corpuscles	Crassamentum or clot
	Water, Salts, Fatty mat., Eyt mat, Albumen	Serum

Cause of coagulat is fibrillat of fibrin

13/10/21

which lacks place speedily & involves the corpus, but in cert is buffed in ethereum, fibrin only a. 3 stages, in 2–5 min. become more tough & gelatinous & in 7–14 min solid & after a time yellow fluid and quantity increases in quality expression. Albumen is lessened by the shape. Lower dark red upper not so. Arte blood more rapidly than venous, arrands it. Bern held that O acts out but Rich is not nec. Serum coag as well in H or N or in a vacuum. Reason that

tich though that Nth caused it. Consists liable to variation owing to the corpuscles spl. in excess fibrin not firm. Clot in plate pen-gnanous. Buffy coat is cupped. Cause is the making. Accuracy condit. from of vessel. No. corpuscles. Composit. hold all elements in solution. Prop. of the vary in health from age ex. cons. to diet. period of life & diet from but med. age. in fetus solid matter very great. Mothe. H_2O 271.1. In Fet. 205. Sed. unit Moth. 219.0 Fete 298. Chief due to mere of corpuscles which also use aft. both & the dams but increase patent. Corres. on & is high in adult life. well shown by Denis. In per. between 8 in & 10 yrs. solid am. is 170 in 1000

In 13	persons	between	10 yrs	and	20	amount of solid am.		200 in "
" 11	"	"	20	"	30	"	"	240
12	"	"	30	"	40			240
In 6	"	"	40	"	50	"	" "	240
8	"	"	50	"	60	"	" "	220
2	"	"	60	"	70	"	" "	210

Sex. of male richer & bl. of person of 2 ang. bup. richer than lymph temper. Water. of bl. subj. thoral variation. Vg. from ans. from 700 to 790 pt in 1000 in these limits rapid variate. but uniformity is obtained. but thirst is excited, and when vessels are distended to a certain degree they refuse to hold more, a certain viscidity is needful. Bl. of women has more than men, & polar most. Bl. of an. Albumen, present no other ch. prop. depend on amount of food used & exercise. Quant. more in arte than venous. Fibrin vary from 2-3 pt in 1000. may fall to 1 in some dise. others & rise as high as 10, since it originated in

Corpuscles when examined, round globules. Two kinds Red and wh. 40 to 1. Red. Vary in size & shape, they are ellip. in birds & animal. In man circular rounded. & Entire cu. they are vessels subject to flow of fluids & Exo. If we take a corpuscle & put it in H_2O will well up & enlarge. In exam. any cells. A nice adaptation exists between the thorax and corpuscle

James Bovell, M.D. M.R.C.P. London

I — II James Bovell, M.D. 1 M.R.C.P. V. M.R.C.P.

In size vary even in a single drop in man 1/4000 – 1/2800 ave 1/3200 the 1/12000. Colour pale in single stratum. Sh of hum Emp by 1/2500 & have much. Composition. 2 organ elements. Globulin & hæmatin.

From excess of albumen mother in corp. age to infer that they elaborate from the blood the element of the. Besides this they possess more power of absorbing oxygen and. 1st elaborated for Le Sau. 2 act as cong of O & Co2 for tolings. Origin of corp. all agree that in embryo formed from the germinal mem by that adult multiply diversion. 1st ones disapp when lymph & chyl or at end of 2nd month. Fortunate for were they

7/11/71

Anaemia

Synonyms, Oligaemia, Hypaemia and Hydraemia, Chem Char. of the blood The chief is the reduction of the red globules Instead of 130 to 1000 parts, reduced to 50 or 100 pts or even 27 The actual proportion varies in health from 90-130 but if it falls far short of this, the disease manifests itself. Col. corpuscles at first little altered, but clot formed is small, Solids not altered in some the alb. is increased with the H_2O, causing an Hydraemia state of the blood, but there is suffic. alb & salts to prevent the dissolving out of the globules. When drawn it is paler, clearer, watery & used clot not so firm & in extreme cases no clot at all. Density of the blood is lowered. Causes, Haemorrhages, whether profuse as after labour or slowly & repeatedly as in epistaxis & piles. Profuse Menstruation may cause acute anaemia. Not only loss of blood but any albuminous fluid will induce it as prolonged lactation, Leucorrhoea suppuration, ch. Diarrhoea, Food def. in quality & quantity, esp. of animal matter. Impure air, residence in dark damp, low localities Causes (cont) Mentaux, sev. study, body labour. Ar-caused. Not only with waste of bld stores but interf. with digestion & thus sug the idea that all and chronic diseases must most produce anaemia, all organ dis. of stomach, mesenteric disease prov. of fat means chyle cannot enter vessels, Even hepatic & intestinal diseases. Some special forms will be glanced at, tracable to cond. with without int. with digest. interf. with qualities of blood disp. between the constituents as Bright's dis. deteriorated, loss of alb. & retention of urinary principles. Anaemia called Chlorosis depends on supp. of formation of fibrin, blood not purif. by mouth, nicotine may be Malar. source of it Melanaemia follows. Rare cause by Hodgkin viz a dis. of lymphatic glands, altered, Called Lymphatic Anaemia, Hodgkin's disease

close allied but not identical is that of spleen alone or conjointly with lymph gland. lots of white cells Leucothythe. In the the organs are enlarged by hypertrophy & bld has excess of what corpuscles. Other causes of it are action of mineral Pb Hg, not metal Iodine Ch, comp of them, Inveterate Syph & Cancer altho cases of it due to Hæmorrh of the late stages of Early Adison. the idiopathic anæmia, also of known cause, but say found decrease supervenal capsules, still non other meet with cases wh has no ascertainable cause, we still apply Idiopathic anæmia In many of these cause is (com anim, Hovenia). & think that running up and down stairs that bld is not suffic aerated & imperfect Hæmatosis results. Symptoms gener pallor fall surfaces, face deadly pale if not comp fair, pale wh pur, if natural dark, it will be sallow ut. lips, gum, m m of mouth, all color, nails & hands blanched. In many, conjunctiva clear & bluish white, shows the sclera. Muscles suffer easy & weakness results easy fatigued, comp of faintness, & of breathlessness. vacular syst. debil, pulse frequ & small, & easy compressed occas thrilling esp in bad cases. Common a hammer blow, This accounts for palpitation, Heart action irregular impul this abrupt & sharp & knocking, lacks the strong impulse wh indicates power. Imp to notice this as frequent & mg diag hypertrophy, Resent to organic disease bone out by murmurs at base, What lots of blood murmur are low pitch soft, blowing, rendered loud by exertion, also affect by posterior loud at base wh lying down, as bl more easily driven. Air confin to pul sound & base at aortic cartilage, somet loud in pulmonary artery than aorta not invariable, Is seldom heard at apex & when you do it is faint. Not only in great vessels but over jugular vein mg gt it or over uncoy, over axilly & femor or all large veins in the bod = a venous hum. This not a reliable sign of anæ as it occurs in many of kids in child & in most persons

of person at 5 oz

40 per cent & in kids and 5, 90 per cent. Hornbell must be found in very early produced, & if found in several of larger veins then not much doubt. Normal venous hum is feeble, not diff used. Actual cause is somewhat obscure, but wet sq bl & th, other tubes produce it better that pure blood & this is simple reason. Arteriosclerosis in als present, carotid, brachial, this forms as most aff. aff sudden large haemorrhages. A thrill of the accompan. Auth evidence & cond of circul is coldness of surface & feet. Digest sys want of app. weak, digest not enough Gastric juice, & fatulent Bowels torpid atony of muscul coat, perhaps in tunnel Mer Syst. Increas suscept impressions on part of Centr & Sensory nerves like Hysteria, Consensual liable to perversion. Sey pain in parts in infer mainly regions. In cert headache, dizzy failure spasm or convulsion. Intoler of light & sound, flashes, tinnitus aurium, syrup tony of a rush of blood when it is a wait. Metal excit & dent. or vomer palpitat & dilat. Urine is pale, abundant & little acid. Skin dry in some clay is bloody nails sunken & spec. Edges split and jagged looking. Chlorosis is peculiar is called disti dreare but as close athe. occ in girl betw pulsing & mature of 2 forms. 1 Idiopath. Anae with no cau. foll & cont men. & issuing in total supp of them 2 sudden supp of the ending in general anaemia as of somethg retain in blood then is the fr of green yellow colour. Appet variable depravation in order relish for all the state pewed. Chalk, Sorrow flatly & indented by teeth. Dislike for animal food. Breath offensive bowel irregular torpid, consts 2 - 3 days & alternate with diarrhoea. Haemolemes or malaria. Sloot. In cut tubbers indis pised to exert. low spirited, puffy cheek & face & ankle

& may spread up the limbs
& dementia. Her symptom are the prominent & Hydrocephalic some enemy forms is common Bld. drawn chf. in coagulum from [illegible] clot small of the buffy coat on it. Course & tendency [illegible] pat, prof. [illegible] ound [illegible] ance for long period emaciation, & serious effusion, & Haemorrhages. Drop chf in cellular tissue & abscesses & sloughing in the [illegible] in hand & [illegible] form bones since. Anth. tendency is to [illegible] in early stage heart not much, but emphysema & [illegible] & [illegible] & enlarged. Kid. fatty degeneration, [illegible] Liv. Glan. Spleen [illegible] pigment, & [illegible] & [illegible] pulp, not swelled but [illegible] in very mild cancer. is present. Thrombi in veins & [illegible] but calcareous is fatal. In curable cancer is removable, may be fatal. Duplicity of deaths in Phthisis, occurs [illegible] in [illegible] & [illegible] & [illegible] &

mental anxiety — is cause, when un sy do not follow the Fe
the gn Hyg. prop. Fe in reduction. If not tolerated adn Mineral
acids & bitter for 10 dy. or vg bitt. Qua (3) gent, Cat & gum Cat
& gs. and then the Fe. If constipat — if urine scanty & high cat
prim purgative & clear, salt. Cat of magn. small ds of Epsom
Pot Tart of Na. (Rochell.), Ofl combine, when no good dietary
Comp Fe SO_4 is with $MgSO_4$ 3j-3. a H_2SO_4 is mo pat & dil
up. or Fe Tart. & Cat of Pot & soda, soml. Bitter with
Quinine to Sup of Fe & Mag. 1 g. to each dose. One of new
pr Cat of Fe & Qu 1-5 grs is good. when app pur Nag.
depressed. Adn not gn on empt stom aft & with
food. Urine Fe & Kid in meat. or aft. Fe best borne
th. If ds give headach reduce it or alter the preparat.
Chalyb. waters more effect than anything

8/11/71

Other remedies in dimin. may be belle. as Mang & ag. oxids
are isomorph. hons with Fe. & isom bodies resp. in disease. Used in
France that for Chlor. need some treatment but bowels call
for disease of purgative & aloes found, P. Al et Myr. or P. aloe
old Comp Decoct of aloes. Should take & exercise and reside
at sea side or mountain good, when have vert. Hard by diet & Fe
Then bring on Menstruation or may not be needful as with the improvement
it has returned. But if not. then hot hip bath & foot bath eg moral a week
for menses add mustard. a local salt shower bath
to hips. In this class. horse back & exercise. As Lucille plan
is the unique of Kitty not the lagoon 3 t pint of milk. In prog
ation when to induce Catam give only a week before the period
& gn eg night. Fe & aloes good in cancer & Chlor. Quinine cat
is comb. at compl. Ner exact allay by Valer & Kitty & narcotic
Kemp & Belladon. Chloral allay the irritabil. Ner dep
is best by Quin & Hypophosphates & compr the Fe bodies

as Assafetida &c, severe neuralg pains call for Fe, & local
anodyn liniments aconite belladona & chloroform, then
consequences like demand Fe. do not alway impr as blood
dis either as most id alleviation is a habit or a structural change
has taken place. ~~then~~ The Aedina & drop will disappear when
blood, y mass in mm of drop y act on skin flannel & diuresis
& cathartics. Lymphatic, or Hogskins disease, it is
placed by virchow in group Lymphomata or Lymphatic tumors as all
do in this class unsp of clear like lymph gland, lot of cells & and
all of structure as like the lymph gland, Divide it into
two subclasses. 1st calls. Hyperplastic or Hyperthrophy, consist
of enterprise of parts that prexist in normal state. 2 Heteroplastic
new formations. In 1st he puts following forms of
disease Simple hyper. Lymphom. as Hy of tonsils, enlarg
with gland, fibroid indr & amyloid dg of them & spleen
liver & kidney as all cm of . 2 Typhoid lymphomata or hyper
of fn of Pey gland, mesenty & spleen. 3 is Lymphosarcoma
or Hodgin disease. 4 Leuchhemia in Leucocythe. 5 Scrofula
To 2nd class belong. Tubercle.
Lymphosarcoma, Hodgkins disc. begins insidiously
gradually cervical gland of axilla enlarg. slow & painless
usually in young one. of scrof or tub habit of body, No sign of
disord here at first. but lt all glands involved then profound anaemia
is induced & all bad consequences follow pale. Dispn & Haemor
glands are large elastic tumors, readily seperable & is clearly
glossy than scrofula & not fused & fixed like cancer as
one do not soften & caseate & cretefaction, at the last for years
Late other glands are affect. spleen, & liver & the lung or
kidney like in this to Cancer, in one middle pl

altho glands large, wh ite cells are not found in blood. Glands may be soft at first. so long as by consists of the cellular element, & as like glands of wh cell. disease but connect tissue soon proliferates & gland become hard like Schrr ms Sites cervical & axill exten. & Bronch & thymus internally but all may be implicated, when Bronch gland often extends to lung & in thymus it gets large & w. ℥ii & extend to pericardium like malignant disease. Pathology uncertain. New form, is natural element, like lymph cells and in further stage of new fibrous tissue. In liver matter is lough & fibro nucleated & in Sp, lungs & kind as cellular wh gland is at first type. we do not know. but probably not as not wh ite cell in blood, is a new growth. Treatment nothing effective, is seldom met. Must treat on general principles.

Leucothycaemia or Leucaemia. other name is Virchow is Leucthaemic lymphoma. Symptoms. 1st constitution of blood. It is defective in red globs & excess of whit. inverted of 337 to 1 of whit are only 3 or 2 to one whit one, or 2 to one or equal. No essential variation in fibrin, may be normal or in excess or deficient & same of alb & salts. Sp gr is reduced 1036 in some to 1049. Blood is like that of anaemia but whit cell in excess. if drop & put in mucus Symp are those of anaemia pallor, of skin & M. M. Abd enlarge, owing to spleen & liver. of ascites & anasarca, Haemorrhage common, esp Epist or by Bowels & stomach. Dia bronchy, constipation & diarrhoea. Tranquillity pains in belly & dyspnoea wh is not accounted for by diaph pushed up but due to blood. Arthritic attacks. Pervis teeth elimination of uric acid & offer perspiration in kids. Like other is well established before not cad is chronic & attended with emaciation. No fever, until the decline of life & the heart. Fatal arthritis of the proceeded by purpura

epistaxis & to avasalvi of blood in meat of brain. 2 chief forms, second
d, one in wh. aff lymph gland are involved & Lymphatic form. Oth in wh
gland not but spleen is, the Splenic form. Kids. occas alla-
will acute form with fever, mus rapid course, & fatal i
2-3 weeks. In Kids under 2 months lymphatic form is met. Over that
age the Splenic Kind. Morbid anatomy, ersen of hy of
all glands, of body and chiefly of cells of them, Spleen enlarged
6-8 lbs, but some absent. 2 aspects 1 pure hyperenlarged & find no-
thing but splenic elements, in oth parenchymy firm & dense high
red or grey, like waxy degeneration. Liver. Oft enlarged was in
13 out of 19 cases. also 2 atheals. 1st enlargement ch due
to growth of lymphatic elements in the organ around small vers-
els (portal); in form of tumors which nodules & gives it to them
on squeezing, call Leukaemic tumours. Or it is indurated
& waxy wh is later. Kidneys aff & seat of pseudo develop-
ment, found in Malp bodies & in tubules. In few cases same
tumours found, in the intestine in sol gland & on pleura. Bend
the lym. gland also implicated, form enlarged, large isolated
elastic tumors, on exam found simply hypertrophy of own elements
White lymph gland seat of Hyperplasia not cinf but other glands
as spleen &c also suff & attacks bend other organs not endowed
with lymph ele. there are newly developed in them & in this it
is like cancer. Process is infecting. Has been called Can-
cer of the blood. Causes. Path is obscure. Virchow. wh any
irritation in gland, its lymph elem multiply & leucotty of blo
increases, thus seen after every meal. Same in pregnancy
by in meant matter exam of white cells in blood, a physiolog process.
Path illust. in early period of Scroful. wh gland enl. In
Typhoid, gland enlarg by these lymph elem spread

excess of wt. cells in blood. Cancer & Cyrus. local ~~cells~~ sorts
under the same Leucocythosis. Some act like this bird
prod. this Leucoth. & thinks the connection between the enl-
arged gland & appearance of white cells in the blood is chiefly that cells manufactured in these gland are pour-
red out the blood & become the white cells. Think that
acute inflammatory affect may lay the foundation Neutl agne or Rhen
weak. affected the blood. Euler diff opinion. In Diagnosis.
may dry blood from ben whip it & dep of fibrin & let it settle &
in test but corpus mean on upper part of dot like milk
of agitation this milk part. find it not due to fat. it will
not go. Agar clot show grey - white granul; & glo. on coagul
in veins & in heart. Grey look masses. purform looking
A diff accon as splee or gland. when splee. the cells like cells
of blood. but when gland are. the besides. no of smaller
white bod. like fill nuclei ~~& even~~. Treatment incurable
once prod. you prove it down. & it is more common. Wood one
cause of cure. but is quarter. Treat on general principles
Gum. Fe. diet. Compl. same as anaemia. Try raw
meat & brandy. 3 form & more common

Scrofulous
lymphoma, still used in vagu sense till nec ntly synon-
ymous with tubercle but now thought it is distinct following Jen-
ner in this. The term applied to weak & vulnerable state of body esp.
of lymph glands, & ordinary irritant act with unusual severe
& persistence prod. will facility severe & protracted at-
tera of the characteristic of multiple cells, rich either undergo retrograde
metam or suppur. Vessel crop to speech chey Hyperp of glad
Element. but is general.

"Scrofula" (continued) 9/11/71

Virchow limits to a spec. anatomical inflam. of Lymphatic gland. Morbid anatomy. Inf. has not peculiar structural alteration, to distinguish it from other forms of inflammation. The P. on conjunct. & cellular. is like simple Kn. The peculiar is the abundance of young cells & tendency to caseate. When lymph. glands involved by ermptn., or an oleum, or bronchi cellular the anaemia or ch. enc. Acute. gl. rapidly enlarged by dev. of cells & may pass out inflam. of other parenchyma & from them to bed of tissue on wh. they lie & result in suppurat. & ulceration & the sore produced is indolent & intractable & leaves an irregular depress. cicatrix. Chronic more frequent & in this form, 1st cellular elem. multiply, proliferate. but cells are ill cousin & organy & unlined of fatty free nuclei the form larger cells like lymph. cells & white bl. cell a type cerf. cell. eye of wh. cell. lough. tumor & granular next stage. whole gland is moist & spongy capsule vessels only & colour is now dirty white for fatty degenerat. of new cells. It is now recoverable, lymphy & abort. but usually goes on & with inc. of cells. connect tissue proliferate, & it is undervalued. "adenosis". Non gl. anaemic, and lry & tough & firm and rapidly caseate comes on. One of 3 cu. 1st partial abort. seal carcinoma degenerat., cells shrivel salts of Ca & cholest. crystallize out. 2 simple soft or colliquation. can be absorbed. 3 common is inflam. soft-ening, extends to matrix & it breaks down and scrof. abscess. Seat of affect. is in cervical glands of neck. Bronch. & inflammat. ones also in cornu. section with Bronch. & inflam. catarrh. Groin rarely. Glands of axilla often. Symptoms & Course. A build of body chang. What are they. 1st. has thick

lips & alæ nas & ears, & lipscr. eyelid bl. head
hay & acqr. forehead pun. low jar pr
Cheek bran much flabby & small. Bones thick joint
large. Thorax contracted & misshaper. Skin thin soft or
thick dy and loose, complex muddy. Devess of body is
low he is immature, or is a low type. Then pecul Pall
of tender. What are the 5 1st is lead to obst. & chronic aff.
of pun. Mc. catarrhal. of pure. lachy sac. Phar. Bronch
stomach & intestine. Another is to infl. & supp. of lym glands
3 Obst dir of skin (4) Cane of bones. Of all these most fre-
quent is rubricab. ill. of lymp gln. & the persistent
hyperpla & indolent infl. of connective tissue. Not shown if
true pung scroful aff. of lymp gland occurs. Do not proceed
by a local irritation. If we had it established then agree th
that there is a pung form of scrofula, but has not been shown
always some local irritation. Glands, vary in size from pea
to eggs. Form from round smooth tumors, who cluster kin-
dly singular. It need not be with pyrexia or pain, when
acute inflamed the syrup as acute consu. fever
rap. pul. sernac. hectic syrup. & with heat & redness of
glands. Hectic & loss of pts & flesh is striking. More often it is
chron & indolent not with fever, the local changes & low
skin water for long & at last, fluctuat. no head, sec. pus
forms & skin non-dirty lived red. Matter from fluctuation
& do not point. On open pus like whey escapes & in it mas-
ses of cond. caseous matter. Ulcers extend it burrows as-
round & sinuses form. Rarely open out vessels
As Eyes in ch inf of meibon glands Op. & conjunct
& of lachy sac. Skin often shown pur. Eruptible

~~[illegible]~~ Eczema or Impetiginous Kind, cells in them. These
Vaccinia. common on face & in eye, or ear at late period
a form of with dish of tissue Lupus. Note metangen
& Kelvin describe one form of Lichen pecul. Mr Thomas.
Catar of nasal mucus, has muffles & nasopharyngeal
is unknown. Catar of Bro. & intest are small scrofulous
& New thinks that Bro catarrh. may in air cells terminal
ale in Consumption. These catarrhs in Kind & ale hyper-
plasia in Bro glands & in these they produce Bronchial Ph-
thisis. Inf of joints take form of sump Synovitis. indolator
is a whole swelling & the legs call & bones wrist. In bones
indu necrosis & caries. Esp the verbal. Ear. & Knee. hip
& elbow & tarsal. Progress. is prob & rebellious long.
Chary atte rate of improv. & collapse. Neco is the rule un-
tess impirl part invol. as pectoral bone. or verbalis.
Whe mesenteric glands affected has fatal. Often indu de-
ath indu by amyloid degeneration. Causes. as often
inherited as acquired S. Parent apt than Sc Kid
They Kind of aged parent or other constitu are delicate, or sub-
jet of Syph. or Ch ague, or of Tuberculous disease. Close ma-
ternity is ~~the~~ a cause. Often acquired by Kind of healthy
parents. It depend on insan cond. as def & deficient
food is the ca par excele, it is powerful. 2 want of pure
air. 3 rend in dark & damp fed. Oper in early per-
ind of life. A poor diet is 1st. bulk & cons. but insuff
in. pass fed Kids. Found by horse Orphanage. Factories in
these. the infl of bad air is favourable scrofula. What they
organ it in abse of inherit predisp is unsettled. but
they it ca of impr fed & housed may be scroful

hyp. in general health for other causes may light up the tendency. Fever act in this way, & measles & typhoid fever. Syphilis small pox & all other wh. undermine vital power. May not under but spur it up. Age, may show at any period commensurate with exciting power. but chiefly of Early life rare in adults. Treatment. Prophylaxis is the best. Rid of Scrofulous & of diet per well fed. grow miles, insist of a good breast, & diet of plain & mild, well ventilated apart. & expose clearly. Chr. dy & elevated is best. momentum. Important duty is attent to digestive organs. often at faults. Rheum & soda & Grey powder of pale stools. Coll of beg bitters & alkalies. NaCO3 & Tint of Calumbo, or gent. Add of lime wat to the milk is good & correct the dia. Pepsin is valuable. wh. food in bowels, Aurytonics is bl. Morss is the best. next Fe. Mineral acids & beg bitters, & Quinine salt H2O & bathing of surface is useful & cold dousing. Often by mineral springs with I & B in them.

Meningitis

meant inf. extension use of office mater of arach also occas. inf. to surface of brain, then Meningo-cerebri corresp. to term Encephalitis, syn. with Phrenitis & is the 2 forms of it Simple & Tubercul. latter small ca. acute Hydrocept.

Simple form. Meningo-Cerebrate. ~~sor~~ acut. simul. ch. may be Pri. or secondary to sor. ubes the mile. Sympt. 3 stages. 1st Sly of excitem. 2 Traumatic. 3 Sl. of exhaustion, Tonic. Chronic & Tint. Xt wh. occ. outside of N system and

Intro in the Ner. system. In Exhibient. Et an
a rigor. in Red. by convulsion, after it fever. sharp. type.
pain in head, heat of scalp, cont of pupils, vomiting
in an empty stomach, Ejecta me green mucous. Use
no relief with the vomiting. Constip. Obstinate. Blood
dark & offensive skin hot, dry, or moist. Pulse fre. sharp. 120
& upr. in Red. & Ss regul. Brachy. is very & sighing of the moans
Tongue not ch. a thin ut. fur. Intro symp. irritable
wakeful. all with solemnity, delir. ear & active
& violent in adults, not calm, remains, and if head
ach with it you ha dise of brain, Senses. Intol of
light. & sound. pain in head. Even more of body painful
distort of senses. may be noise, & sparks or moats, or
numbn & creep. formation, Motor manu quick
twitchings. Stiffness. after. 1-4 days. subsid
& I raussit slag. for dur. scalp hot. pulse slow
140 to 80 & it is irregul. 2-3 & a pause. It is charact
of the d. Resp irreg. & sighing. Vomit continue or
cer. Constip perv. & retent of urine may happen
Off retention of the abdomen. Intro also ind decline
del brought Red dimmy & stupor, Excl of senses
sub. less intol of light, dilat of pupil & vocalate, Head
ach sever or subside, twitch increase, & convulsion
ry over general or conf to one side. or a limb. occas
Rigidity of an arm or leg & one side more & other rigid
pain int Expansit dur rati varies my few hrs or absent
In 3rd sly of or part of brain Ex. sy. pul rapid 160-160
in Red 12 on ad & sky pale & weak, hagg feat. pupil wid
u insetbl t light. pupil sly del. Swelles in mouth

Rel of urine & constip per or relax of sphincter
Intra also under prost. loss of percept & volition can
do with senses is blind & deaf & somet loss of feeling
or on one side. Motor fruit unpa. spasm gr. very t
pa. a fruit in eyelid, squint, or hæmiplegia, Rarely
is deglutit lost. Invasion somet differs no sign
or sel in with stupor like apop. or delirium violent
& grad increase, called Phrenitis. In kid convul-
cion in invasion. Loss of speech ing when it in & said
it miss a latent course, none of syrup p. is a mal
inger is laciter & stupid. Whe secondly modified
it is mostly so, whe so apt to be insidu at outset
is marked. head ach & bonnet often absent. Men is
mid by irrig & rede in pulse, sudden. Countepale
& anxie agitation of manner & delirium, when inf
com in dura mater not only possib to distin
be it & pia mater, occas in d. male with dis
of ear. extends to it from bone of ear. Mg at any period
of life 50 years afterwards, whe the. In there only
ch signs apt to a neuro rigors & ch sign of pg ar. also
in lungs, as inf of it & tend to sinuses of the dura
mate & pus get in the blood, fever of intermitt
type. & irritation, & secondly deposit, & confined
in jugular vein thrombosis of it. Called Packy menin
Prog of simple Meningitis is unfav rapid,
gener in 8-9 days. but in sever in 24-36 hours, occas
last 1-3 week. is a rapid use at 8-9 d. Befr
death an sinking sel in in ute pain & del. deep
consciousness return & fried the get well but it

dies soon after, Prog is grave, Pressing somet gets well
only in 1st stage get recover. rare in 2nd & not in 3d. Causes
Pred. age 16-45 or acts period of life, more exp to
excess of mental ~~ex~~ ct. intemp & ext violent. More in
men than women, though profess no mental anxiety
& exp to sun, occ Epidemic & type of Cerebro-spinal
meningitis, which is specific. Exat cau. ex. to violence. Exp
trays of sun doubtful, sun stroke, indirect another
form of disease. Morbid pro small pox & Scaletfe
Erysipelas, of scalp, & very extend to continuity the the
membranes. Sudd sup of habit discharg menses
piles, may get it, is rare. All the of rule cerebral ex-
cles may act as exciting causes. One prior fragm
or exterior pro des of Pars petrosa of temp bone.
Ch otorrea without caries, but any des of bone of Rhab
syph & scrofu. pro orbit, nasi, & occip foram. pro
cervical vertebra, ~~Caries~~ the Cond syphilis is fre-
quent cause of it, Rheum & gout rare ca. Bright dis
occas. Rare meet it in healthy persons, always
a secondary aff rule aft blow's. Morbid anat
Mem as inf of pia mater. Pia mat all vessel
from minute injected, in later stage product
of pus all over the convex post meet exudation
assum. with fragm out of pa gr. gr. lymph, scatt
over the surface, smooth or granular, in other case, a
greenish purulent lymph, like pus, uniformly over con-
dep in the sulci & extend to base, the most at conv.
somet in patches, & cont vessels of sulci, on re
pia mater found, it adhe & sup of brain adheres

Cortex for deep colour redd. little ecchy. & cortex soft
or cutting it may be moved, not soft in red. bentrical ett
water free from prod. or contr. opaque fl. 311-111 & cont.
cells. usually no softening in vents. nor accum. of fluid in
them. One of the meninges, to solid high a watery &
sudate greyish. seem transparent ie m. p. mats raised
& gelatin look. Supp. ex. for ear find dur mater
at first injected soft gray stuckley later softened. detach
ed for bone & pus between them & in case of arachnoid sy-
mple or pus, prod & lend t arach sac. not in simple
In & the case dur mate slough & gangrenous. the violent
cause. same is met. ~~the~~ apt find blood & travaux
less of it. Med. legal points. tell for & an wh died good
a vital ear. sign of inf of the. was it due t blow or nat.
causes, vitreous or exter for ear, how is locally. conf. t
one hemisphere. 2 find. blood & trav in & about seat
3 inf conf t dur sarachnoid sac non in pr mat &
bn. if it does it is localized. Mier will find along the
vessel & sudat compressed & lymph. Can dist. uf of
mer for that of trav. Men for cerebritis French lay
dr. amale accont. not true seldom have pure men-
or cerb. & for pr one to the other still cases occur wh
it pr down in Mer or Brain & can cay

Meningitis
& the symph high marked in
fat sly pain of head, high
fe. sharp pul. heat of pulp

Cerebritis
these are not marked
not high

Meningitis	Cerebritis
2 intr. sympt. mor. of excitement of function, intr. of light & sun, killes act. del.	Not the great exc. impair of funct. confusing is obt. is dull & slap & loss of feely
3 Pain is acute, superficial & a prop. t. febrile reaction, heat lasts several days	Pain dull & deep seat out of proport. t. febr. & contr. after reaction ears
Excitat. of funct. mind spec. exc. sensit. act. del. imm. clonic spasm	Functn. of brain are early imp. or annihilated, paralysis loss of feely & bolit. & percepts. n. spasm. tonic, muscl. rigid
Excitement of system & organ at outset & paist. exhaust.	Little exc. but impair of funct. from outset
Bill O'Shur (of Tipperary)	Bill O'Shur M.D.

"Locomotor Ataxy"

Duchenne's disease. 3 stages. 1st Patient the subject acute bony pains severe. temporary duration in some pat. cont. they occur legs, arms or head & face. also electl. like pains like shock, apt. by metal exc. tement or fatigue may be permanent & increase. also double vision from temp. paral. of 3 or 6 p. & unequal size of pupil in my squinting & for long. there all act. of doubt vis. in paroxysms. Ptosis occasion & with dilat. of pupil. contr. pupil is valuable. another. of eye. amblyopia feebl. aff. squinting eye. 2 stage. 1st last involvement

In second, sensation of touch impaired in soles & legs, feels as if walk on rocks when in bar feet. On & aim sensed find it is slow. feels slowly. 5 second beta pricking the feet. Mus sense imp. aired cannot tell whe feet are not look. Skin sensation still to pain cold or heat, the tactile sensibility is destroyed. Heat cold, tickling & pain at an diff senses after unable feel touch feel, pain & heat & cold then. Loss of coord lost. gait unsteady. like drunken man. does not feel well. impaired tactility. loss of coordinat. Watch he lift feet slowly plant sheet firmly. difficult to maint equilibr walks with feet wide. & instandy also, turns with difficulty cannot walk in dark, as cannot direct the movements. uses his eyes alone. to direct the movement. vision is a substitute. not paralysed if on floor, has usual strength in his legs, can carry a load. Out loss of coordination, not ppr. 3rd stage with motor power is impaired, extends in the cord. anaesth not only the muscl bone, waiting comes on. Now cannot walk or stand. Anaemia. Atrophy of optic disk & blind is interested in bed. Not nearly of muscles. a little. the contracted till late, Intell kept till last, Tow ch blind & rech paral. & sexual des lost. Many diverticles. Anaesth may not present. Somehow. chi pain absent & shocks also. Strab & double vision, or impaired & loss of sensat may be earliest symp before anything else. Negative symptom. Mus cole pain not lost. Cal imp of sensibility of heat & cold. No tender of spine or pain. No wasting of muscles or loss of contractility, or oedema of feet or sloughing as in paraph. Causes not understood, is chronic may last 10-20 yrs. my in 6 month. chief in male. Ppe

Between 30 – 50. not common may be as Eg as 15. take as 68. Often heredity.
Supposed causes are. sexual abuses. also over fatigue. forced marches
3 exp. to cold & wet most powerful. 4 Rheu or Rheu habit
or syphilis. Of 65 cases 27 due to cold. 31 by libidinous
abuses. 17 exhaust & ser disease. Occasionally no cause is
to be found but now held that all processes which exhaust the
functions of the cord may induce it. Morbid anatomy
Posterior median columns are in all affected. having a
grey. gelatinous. semi-transparent aspect & softened
This may not extend the whole length. but be in patches
These patches must be 1-2 inches long before they can pro-
duce the symptoms of the disease. The posterior nerve roots
are also found atrophied. The antero-lateral tracts become
softened or indurated, wasted in any case. The grey matter
of the interior is destroyed at the last. This explains the
diversity of the symptoms in different cases according as
the different columns of the cord are affected. Clake
found the substance broken down, myelin in it and
the nerve cells fatty and atrophied. Blood vessels are
also fatty and the posterior roots wasted, hardly a trace
of natural structure to be seen. The neuroglia of the cord
becomes hypertrophied. like in cirrhosis of liver or kidney
In some it extends up into the brain and the optic nerve und-
egoes the same changes. all of them become the seat of this
except the 5th 7th and 8th. Prognosis. is gloomy. Cases
may last for years. 12 – 14 – 15. but the end is unfavourable
Cure perhaps never improvement sometimes.
Treatment. Do not deplete. Radcliffe gives of Morbus
& the Hypophosphites as the nervous matter is degenerating

Also Arsenic, a nervine alterative, $HgCl_2$ may be tried
Agnus used in France not much in Britain. Stimulants
needed of much debility. For the muscles and pains, use
Faradization, shampooing &c. Radcliffe advises the early
use of crutches to economise the weakened muscular power

"Hysteria"

In [illegible] a group, paroxysmal recurring irregular & exemplified
in Paroxy. In all no exempt the characteristic, constantly manifested
either. occ outbreak or exacerbat. 3 forms. Non-convulsive
globus hysterica id 1 2 Paroxysmal in wh. preced. & sympt
are present & paroxysmal 3 Irregular & anomalous phenomena in the interval
of attack. Non Convul or would, sensation of distortion
at epigastrium tightness. cross of limbs rotting up the neck & clasping
feet = Globus hyst. & gasping with it. Often palpitat. pain
in left mammae. Spleen. agitated. & aled. & [illegible]
in or laughter gulping or spreading & opposite emotional [illegible]
affordedly [illegible] Asabat. & do now afterward. Often nucleate
of limpid urine & pain offencing. Uns & sound attack
Paroxysmal. preceded these sympt globus & excitement
may or break out suddenly. Neither, burst out in fit of laughter
[illegible] & globus in throat. Spreading or vacant stare
of all [illegible] & convulsed. [illegible] herself about, beats
breast. tears & hair. Shrinkhead about & strength exhibited
unnaturally. Laws moved a [illegible] Respir
[illegible] & heavy sighing. Spasm of glottis & [illegible] flushed face
no distortion of feature. [illegible] pupil natural. Nost
[illegible] & headbrach. [illegible] barking noises [illegible]

and laugh. Somet- cum tonic, & then a opulent
in a moment relaxed & clonic succeed & alternate. All
the time unconscious, but may be complete or only partial. Knows
the cannot speak, but knows what has taken place & can
clearly pointing 4 o'n or threaten to cut off hair. After period
can sulked. Concomitant retention & claim or sobby or eyes
or attention of these ends the fit. Somet sleeps. Often at end has
nucleus, occas. in semi-coma. trance like, jaws
closed & eyelids. After fit my stay exhalation of pale, ergo of
heating, unit of temporary pain. Claims hysteria at one spot
may be obtained ergo if complete loss of cone. Would inapt-
ranty determ somet, paralysis of limbs bladder or bowel
mouth. Somet aphonia or special sense hearing or seeing
usually disappear in few hrs or day, aphonia may last. Durat-
ing of 2 - 3 - hrs, pt mean, & many follow. & concours
in interval. Anomalous. Symptoms in interval. 1st of
Circulation. all of palpitat. altered rythm. coll mu-
mur. Symptomatic sequence. Resp. dis. hrs constrict of chest
spasm of glottis. loss from aphonia, cough. dy hard: apt
bowel & rigg. worst in company & last for months & in physi-
cal sexes. or cor pneumatic or pneumatic flexed or rest. Ing hr spare laugh
& etc. Digest. globus feel as of bed in gullet. dysplagia.
Stomach. distended, diff excess or deprav appetite of deprav all
sorts of thing. stale pene mustard, charcoal. Sud dent attacks of
flatulence. gas in enormous amount & rumbly obst & long
pain in stomach & colon. Nutritive function not suffer. good health
& color. bowels in gal. cures & flatul. (oils) or. spare
contraction of abd muscl. Phantom tumors. Colic common
Sceling cycle. deprived. Menopy feigned for months alternat-
blood gulf from mouth

Menses. omitted often & then recur profusely & long. Often lost & is unpalatable. Urine copious. Bile deficient and retention hysterical paroxysms bloated. Re hepatic. Mind vassal character spirit = Husband accused of all evil. "I cannot help it & I won't be" complete &. Child defect in palate & death in which is known a defective escaped & slow of idea & not as seen. & feels & expresses himself. Moral & change. & feigns, & hurt & makes, & swallow needle, feeble, in health. Can eat: get fat. This in pal & met amount & insanity & irresponsible spirit often precedes & accompanies organic & intense, & mental disease. But the belle she cannot walk & speak. Where emotion & mind & spirit, imply negative & use of her will. Spirit & understand & self preservation & value the charm & better & true & will is & concerned. Despite me mild and not by me tongue & replaced. Many found deluded apt & insanity. Claims, & made breast. Pains & agonies described as horrible local & like & articulate hysterical & spinal. Three stages & often. & of & attacks & are in high life & are hysterical according to Brodie, & mind passing & &, tender, & patient & & & of chest. Her & all & in anxiety & her & can express & is rapid & & & stiff. & but pure & & & & & & & flexible. & and chlo & no dose & of cardiac &. Comes & spasm & tender & spine & spine do not & & with & spinal & & & & She & can & disturbed, unable & & & shear. Motor & power & also & paralysis & & & & & & &

do not predisp. to it. married women less liable. Disord
more entirely the dose are held to be the cause par excell. Not established
that disord. men is a cause, except present. What
supergen. poor sister & it offers Epist. predisposes, all
loose & extra cu. loss of blood. lactat. mucous ages
exciting. stimulation, metal emotion fit of anger. joy
disappoint. sentiment love jealous. When predisp.
any particular cause will induce it. Pathology. one and
cause to all of dis. of the syst. cerebral is under act of irritation
of mucous mem. & diminish power of will. In functional cases death
no lesion found. is a neurosis, not Rill pence, recurrence
cause of bef. age advanced. Distinguish from Epil. convulsion
1st Ep. is not of preliminary office. unless unconsciously. foll.
of convulsion. hysteria pre. of Globus. suff. pulsat. nec
& alarm. & in the attack convulsion precedes loss of consciousness
Ep. convul. at first tonic & then to all men from the thumb &
the ridge spar. the clonic spasm. at first violent the
less. In this no change of place. if in fire stays there, &
in Hysteria. not sequence. not rigid first foll. clonic spasm
of alternate. one more rigid next clonic one & alternate
the body moves about, hard to hold. anoth. are attended
only by males. take to be attended by males. Seldom complete
loss. in hysteria fit can under some manif. twenty of psychic
& thinks will move her. Dural effect Ep. relied long come end
8-10 minute. awakes alarmed & then sleeps. In Hyst.
can for hours comet. sty a day. In the fit in Ep. cons.
cobbly of tongue & eccly on forehead not in Hysteria. Fit in Hy
not incer. by stopped in loosen or lacerant. usually by hysteria
manipulation laughing or cobbling or some other

Treatm. Paroxysm. Inj arm of cold H_2O. Lotta wrist
or form or fr a pig or fine of swallow. arm & arm & aeth
a dur is good, or a sh. arm ℥j b. a ℥ of tinct
Ice cold H_2O or rectum good.. Good or sever. Cure for mouth
op & pour in cold H_2O against the will at pt spasm & soon
the concern comes again, In most sem cold douch
well applied. another in pat is chl. or aeth inhalation
tomet bond threat to wake it up Cure End find cause
Impoulat is condit of meanes of wong. use ord means
ulcer dur or displacement, allest. One principle. to attach
as little. unpr as possible to them. she is morbidly
sensitive about the womb one reason of Mr Tait pl.
is direct pat alle for uter to the ip. he rub Tat Emer
ing on Spin & Fe salves internally. Slate of bowls. count
hab cur tip & acu offices & atty causes. Subdue & ass
out of the system. For this the emot & feely. avoid fast life
avoid ready sensat literature of day & impure late supp
Mr Dirks Eat to bed & eat bone & active life. out door
as ready. dur empty habit of producty. Rhumb. spent
ready aloud every day & cur the spasm. Take some
sense slep in life. Stiff cure of ready. Cutting of muscle is
injurious in highest degree. What he sy in fatty & confid
ence. will assist her. dont say she is an impoch. appeal
to be common sense. Cerb remedy to give. of bad health.
In. Fe. Gn & Cu. valer of gn. Cold batt & pinging
Incendiat spin colic pulpit. cont of stim ℥ p dur
as valer & aeth good. add pary Bell Hemp or
Chloral Paralysis pain mover Elect. slips of blist
around the limb

Practice of Medicine
Notes of Lectures (Dr. Howard)
'71

& Materia Medica
notes of lectures '72.

At other end of bk
notes of lectures
on Med. Jurisprudence

12/2/72

Nitrate of Iron.

Liq Ferri pernitrate. ℥ of Ferrum ℥iv of HNO_3. H_2O = ℥ sn & press = 01 p. Clear. Chery red. some thick & sparg. & violet depn on if Fe as peroxid or not. If protoxide = thick & dark. Best on small quantities. but little Fe in HNO_3 at a time. Sp gr. 1.103. styptic and disagreeable. Analy. of H_4FeCy^6 = deep blue. Throw down blk with Tinct Galla. Is astringent an sentim and causes shrivelling. Used in dysenty. & dia. & leucorr. Ch bronchitis. Is powerful. Dose & ny ter in die dilute well. gradually a larger amount. Good in inbed dis of pr. pain or fer. or quick pul. & of long glands

Potassio-Tartrate of Iron

Tart of Fe_2O_3 & Tart of K. Get peroxide of Fe. by taking persulphate of Fe add an alkali the pp. take and mix with cream of tartar. with boiling H_2O and heat. Solid. powder. olive neutral. Not ferrugin taste. not styptic. devoid of odour. 100 grs with Liq K. = pp weigh 54 grs of Fe_2O_3. In alk of cold = no change. Not aff by Fe test but if acid added fuel & test for persalt you get results. Boil with tartar acid = crystal of cream of tartar. May contain excess of either of ingredients. Used in same as ann. cit of Fe. in kind & fatted ads. Do ℈ – xxv grs ter in die

Mag. oxide of Fe

Or metal Fe Fe_3O_4. doubt of it is a distinct oxide. Pot nature in masses lamination or crystal, = loadstone. Mad by $FeSO_4$ in hr cond a per & proto. 2 eqn of water persulf with 1 of Protosulph & add Liq Soda. till any pp takes place = the article. collect & dy. Wash out any sulphate of Na

as powder = green. when dry = dark, soft velvety. magnetic. diss in HCl heat it loses O = K_2O_3. In close vessels little change. diss in HCl & add alk = K_2O_3 first after a potoxide. Used for unusual acts of F. 3-5 grs

Bebeeru

Nectandra Rodieri, fr B Guiana. & W. Indies, on shores of rivers Tolfly plant some 50 feet. Bark is used in slip 2-4 feet 3-4 inch head. 1/2 in in thick. outer rough & dark br. Inside reddish brn. fibrous, short rough fracture taste bitter. aroma. Good in wood. Used in furniture. Analysis Biberin C H N O 38 21 1 6 Made fr (B)SO_4 K_2O on & K_2SO_4 added; liquid then add alkal as NH_3 and Biberin falls. Is impure. has Citrina. Not pp with hydrated ox of Pb but with KS. concentrate & bot rem with Ether & heat = Rot Solid light yellow amorph. insol in K_2O readily in acids. Diffy pure. but fr a gelat hyd. $BiSO_4$ used. made in diff way of the bark. 1st in fine pecc. K_2O to soften. then in pecold pick. K_2O then it = Infusion thus concent. then Ca added = pp. dep. sub. add NH_3 with Bi falls collect. add K_2SO_4 = solid. by Evaporation. Fine flakes reddish brown. then in del fibr transp. sol in K_2O = a light brown solut & clear on K_2SO_4. Rem by Boil. Used as tonic & antiperiodic. subst for Lu. diff 1st not so powerful. 2 not likely to pr dens of brain & sensorium no Lu 3 less irritant 4 appl when L is not useful or 7 sey when L is powerful Antiper. in relapse of ague Simplex is with ague no gumic, But in convales after exhausting dis as Typhoid. Used in Ch dis of Gastric organ. Useful in dis as Lu. Give in pill or mixt. 11 gr with 3 of X of Ferr. Solu with Lu. Cascarill or Fr aurantii. 2 Nectantria

diffr formula not as much C_{10} & solid white fusible Test is MnO_2 & H_2SO_4 heat play of color. 1st green then deep violet. is weak tonic

III Acidu Ribenici not much. crystalline volatile easily dissp. by sly heat. unite with ribenic IV Tannic acid 2½ %. Liquor Sam. colourg. malle. Same gen. quality as Ribenic. Infus of Bark ℥ in O⁷ of water. XV-3 of Pulvis

Cinchona

S. America. Trees at 1200 feet aft. level. In valleys of Andes. Cinchonaceae Pentand Monogenia. Flowers shape salver. pink. stamen sen project. Inside pubescent. Many species Colour. C. Pale Flav & Rubra. C. Pallida

Hoxa bark also crown. once. thin bert & most used. tree = C. Lancefolia. Leaf is delusive, is variable as light age, soil, exposure. Change in form & on same tree diff shaped lea C. Condamina is the name now Bark. 2 condit Quills or flat. most is quill. double. nested mean 6-15 inches variable by thickness or size of quill. outer = lichens. = white silvery of remove exp'd. grey light. cone with cracks. most parallel few at L. extend thro all thickness. when detach. = fawn tint. unequal. Inside liber. pale cinnamon. Breaks short. & not uneven. Known by negat. gen H_2SO_4 added not pp occur. aromatic. has more Cin. less Quin. 1 lb 3 p of Cinch. most with Cascarilla. in shorter pac 6 inches. so end oblique. not coated with lichens if as an black. has smell in combustion. = musk. C. Flava

most of Q. for it. Monopolly bark Call. C. Calyzaea. tree is that. much for other species Ext for Bolivia. ~~[illegible]~~ I w end Quill or Flat. Quills longer. 2 feet. Ext with moss yellow. fringe (red). thinner the C. Pall. ½-1. has yellow for tint. inter is orange. break. part unequal. & spl & chest-rapes. splinter seen in part. Is compact. & white y

nauldn. Dens & add $NaSO_4$ = pp of $CaSO_4$ Others defect in ters or sm all. Bitter taste no arr. 1 lb = 3 of LSO_4 Flat like quills. thicker 1/3 - 1/2 inch. native no epidem. Red. C Rubra.

from in certain spec. C. oblongifol but incorrect. Sol pr bark of varieties. ch gelled the C. pallid & Flava C. Succirubra ~~[illegible]~~ of Br Phar. Leaf. bar a layer of deep red & in the bark too. Sol pr Bark in Quill of flat per. form is rare. per rough mea 2 feet up. 3 - 4 inch broad 1/2 in thick no covering epid. detached & moss may be on it red or brown. Acting tonic. pro aroma. Fract uneven & aur find two layers never seen in others. Ex les is compact dull red. inside is open & brk red 3 11 of LSO_4 in lb. & 3 1 of CSO_4. Elem bark. is diff array. pla parallel & are thicker. Carthagena

bark. dense. harder. splintery pearl orange yellow on inner. 3 is bitter. used to get Qn.

Analysis Cinchonia

Sol of CSO_4 dis in H_2O add alkali pr alkal oid got collect wash & dry = crystal. in rhombic prisms used in the 1 reed 2500 of cold. not much more in hot. Sol in RSp 1 in 60. Conf with Q dis by its charact. add H_2SO_4 & it will dis in H_2O = red dist clear. Ch & H_2N no gen comp with it & is right hand polar. 2 salts. CSO_4 & $CHCl$. Though a comp of Lumogen = CH_2N & add Cinch & get in. CSO_4 pr pale bark solid crystals oblique. more soluble in H_2O aromatic dep with Bact. Hydrochlr of C. add Hel to base. when neutr evaporate. Actions. used as aromatic tonic large. dis ord gastric fruit in labilly of stomach. apt = dyspep. & pain & cardialgia not so prom as Quin & not so reliable. Used in aque & gastric dis ord. Dose 11 - 12 gr. in solut of in acid. Cinchonidina

same

chem compos. once thought identical with Cinchon. now is left hand

heat odor of HCl. H_2 = salt. Met in rhombohed pris soluble in H_2O 54 times. Same as Cinchon H_2

Quinine in 1820. Pellier, the Quinogen $C_{20}H_{12}N$ & 2 eq of O a binoxide of Quinine. Sol soln of $2SO_4$ & add H_2N ~~and~~ pr quinine deposits, amorph. 2 slate powder or resinoid. powd soft white & insoluble lumps semitran rauxfr inflam. clean tillk mud. Bitter. soln in H_2O blue col fluorescency Cl & H_2N_2 = gold mixture clear 13/2/71

2 sol with H_2, add aw = fluorescency = dispersion of lumin rays in the spectrum. 3 Test from Iodo sulph of Quinine. Terephthalate. Mix 3 of K Sp, 31 of acetic acid 3 VI of H_2SO_4. Place

Qu. on a plate dissol in this fluid. allow drops of Tinct of Iodine in small amount = product, ie Iodo-sulph of Quin. See particl green & shining. It is delicate. Avoid an excess of iodine

4 Mix with R & heat = prod. Reg fluid thick & same gel for Quinodina. Qu gel 6 eq of H_2O = hydrate. Not often pr as is used. Gr with H_2SO_4, as dis or sulphate. The disulp is odor Quin. H_2O & H_2SO_4 forms $2SO_4$. Sulphate

Ponti

1 lb of Caly sau bark 3 III of HCl. H_2SO_4, Gr Cu & H_2O, O IV of Sol Iodine break up. from H_2SO_4 on. stand till. wood soft. then to pecol alc & HCl dilute pars tho. residue wash with H_2O & mixed with the filtrate. Add Na solut, prec. collect. wash. next remain on filter. add H_2O & H_2SO_4 heat. then reduce & set aside to crystalize. The 2 is with Quinic acid & then = Kinnate of Quinine. on add Na Quin is set free. then mix with H_2SO_4 & = $2SO_4$. Refine by recrystal in H_2O. Of tinted dec with Carbon. Known. solid. crystal. prism. 7 eq of H_2O. soft flexible eroded. & pearly. insol in H_2O 1 needs 740 cold. more at 212. 1 needs in 30. 1 needs 60 of alcohol. Is bitter. no odour. In dark lumin. In air efflores. Sol pound by acid. when pr

It is known as Sulphate by Ba Cl. Heat & it fuses = liquid amber of sudden cool = rest. Undulterated. Salines & inorganic matters Sample on platinum & heat ag residue it is impurity. 2 Salicin drop. H_2SO_4 = with Salicin a blood red mixture 3 Sugar. dis in acid vals add alkali & all 2 cast dose. of fluid is sent sugar is on it. 4 Gum dextrin &c, solut in H_2O. 5 Cinchonia. Ether. dis all gum not the Cinchonia. Fally, not in H_2O Preparate 7 inch. ℈ vii. Ol of Lime aurantii is good ℥i – ℥iii. Vinum Quinine ℈i of Sulph ℥ss of cal acid Oi of sherry stand 14 days. decant. ℥ss. ℥iss. Pill. Quinine. Con of dog rose 1 to 3 of gum. incorporate. dis in 4 gr pills Valerianate of Quinine Iodide of Qu. & ways. add KI to Quinine. concent = crystals of the salt. 2 2 salt Io K & 2 SO_4 ed separate add together. decomp = KSO_4 & 2. Iodid = insol pp. not crystalline is irregular. may be yellow or brown Dose 1 – iii grs in pills Actions. 1 grs in debility tonic, app better &c. Stimulate. secret of stom. calls forth action & gives the power. Is astringent. dryness of fauces long continued. ptyalis occas. diff fr Hg not feels or loose teeth, Sal absorbed, in 60 act. Haematinic is diff app muscle & nerv system. Large doses is sedat to heart and brain. Inj ell. viii – 3 gs. in all sedatn. Depend on vessel injected. Heat of inj. brain of carotid. Kinna 10 – 20 grs acts on sensor. head on verb blind. wary. deaf. secret of surf heightened. Pale cold clamp stricture of chest. Stupor comes on. intoxicate in some delir & coma. Large doses is poor 100 grs = death. cold blind deaf 3 ss moved from. Is stimulant secretions, as skin. of mucous temp & allied. of all mine most constantly any & solids more in weight is depurative. In female as Emenagogue. In few is stir to intestines in others constipation. Cause. not better more from & more power. Effects one. Quinidine. cerebrosp

divide. virus. auditus & insensible. severe stick of cuct. palpitat.
Anoth is antiperiodic. Oper in 3 ways. one neut. values poisn in ♁ under
element 2 in ♁ by restoring some element in which lurus defective
3 Good, in fl. in Ner. syster. chang innervation. Not altog in all
these ways. Ads spec. on spleen in morbid states reduced
to bulk. Injection in animals. shrinking of spleen took place. In ague
& ague cake though sev. deper on enlargement of the spleen
USE. Bef. given. ascend to brow. Gr. gmel. spong. if deper will
not influence. Gr. Podop. & Kheut. & small amount will do
2 Bed in solution. not as operat in pill. 3 if obj. ell. gr. with mur
& ol. ani. or conf. gallae. a little tannin added 4 In fever when not with
bone. gr. with Hyosya. 5. Patient. gr. sanity near air,
good food &c. When headach compl. off suspend. Ague. many
ways. Gr. before. 1/2 a lag dose ĪN – V & in apyrexia smaller
do 7/2 – 15 & 3 – 4. In old cases not alone give with arsenic
or Zn SO4. In relapses from ague promote with Ar. Zn. In sum
ple case this in 4 – 5 days followed surpeuse. Some gin
ger doses after sweat ℈ß ℈j mg pod. Quinidine & not so
good. Anoth. gr. in fever or immed. bef. cold. Topically a
bottle one ipine nerve cutis & dress with Quin. Dess in H2O
& gr. hypodem. Do not stop when deser. stops relapse will take
place. Good in convalescence after fever. Good in remittent fever
with gastric disea. In scrofulous some cured alone. Ophthalmia
&c. In diabetes sometimes with Fe & op. In splenitis ague cake
in Ner. aff. Chor. neural. ipsum. Tic dolorous. Hemicrania all
good by Quin. Dos 1/2 – 11 as Ton. Antip. V – X. Sedat. V – XX
Quinidina
1833 like quinine. = Bela Qu. isomer in com
Bimoxid of Qu. Ivy. 1st north lign of Qu. seperate
& 2d. gd by concent. 2. male amorph Q. = Q & 2d with Cin
ses. In albes. & heat. take up Q & 2d. concent. Q depor

set an & 2d falls down. Same effects Ch. & H_2N & fluorescence diff
I right-handed polarizat. 2 cyclol. harder & solu 1 in 1500 of
cold & 750 of hot. 1 in 100 of ether. needs 45 of alcohol in boiling
boiler. unlike with acids = salts. One is 2d SO_4. Use Carthagenian
bark for it. Sepe as in 2. SO_4. also for pre alkaloid of H_2SO_4
Know of wool. Cook white fleecy. 8 hr more solu in H_2O than
sulph. RI pp it. Like 2d Sal compacts same manner
in large & sed & dep. Same energy is 2. Erysina in an
brick sold white. HNO_3 = deep green mix. acid = salts. H_2SO_4
compon gelatinous. also acids. Kinic

like tartaric in crystals
like it transp glassy. vitreous fract. sour. dissolv RS & ether
7 et. mol with MnO & H_2SO_4 = yellow green. = Kinole
Kinovic

like stearic = Cu salt = deep gr. Two mode of
color. mall. Inso Cinchotan acid. tonic. not in H_2O
Silic is Gallic acid modified from gelatinous. Bark
distill Vol oil amon is scanf 100 cut 2 gtt of product
thick aromat pungent. Action of Bark.

like quinine. a
fair dissimila. 1st mor stimulating ample of dry mouth
thirst and suff constipat. In mor quick pulse. raises
temperat. & dry tongue of fever. all indic intermitted. Some
lis erythem of stomach. On Heat stoy. impel violent & ten
quicker. 2 for 2 astringent. all m m indic. suffic.
1 aromatic is cordial & ca 4 Stoy 2 antipenidic art.
aron & bitter pr = best combin for an antipenidic. 4 Zoal
operat. on a part is astringent & antiseptic & limit gran
5 5 is antidote. dead in pr of autumn. also used
& benefit is due to tannin which can. Prepe of Cinch. Bitt
3 p 3 p not eligible. 2 Class. mor of Calyc. & of Rule

Calysa Decoc ℥i + O¹ of bol water boil to XVI oz dis ℥ss ℥ted
Infus ℥ of bark and O¹ of A.D. selected + are same dose
Tinct ℥iv of bark O¹ of P.Sp. ℥ss ℥ii addect pyrox. bell
Ext Cin fluid. 1lb add H₂O to fl. in pesola. H₂O on it drop thro
all extracted. Evap. to ℥iii add ℥i of R.S. is powerful v–xxm
Pallida. Tinct Cinch Co. Rn org pell. Serp Saff. Coche +
P.Sp 12 gr = ℥ of Pul cinchonae 15/2/72

Cascarilla

Croton Eluteria only some. C. cascar none at all. Fr
Euphorbiaceae in 1693. Once in fevers with petechiae
+ diarrhoea probab Typhoid. also in Dysent in 1789 in
an Epid. Portion is Bark. met 3–4 inch long. some more
cut obliquely & t. lichens. 43 species found on it. dark brown
detach. Epid grey + interp with wh. spots. Epidermis thin
Fracture short + resin. Carb agr. spicy. odour. pleasant
like musk. Inside fibres circumcisions. Act pin to
H₂O P.Sp + ab. ob. Analysis Cascarillin. neutral
solid white. volat. sol in P.Sp. 2 Volat = aromatic
quality. not much 1/10 of it. May arise yellow. blue or
green. Same pass thro these. light when fresh. blue
in lid. Flowers on H₂O is stimulat. Sol in Alb + al.
Tow oil. Alb can be separated. 3 Resin. soft. brown. + with
the oil. not in H₂O is in R.Sp. Actions. aromatic stem tonic
no disturbance in circulation. no dryness of stomach. In fevers &c
it do not increase pulse. In mild inflammation it is chosen. Evol prod
cans ... of pain &c. Acts as astringent. but of normal does not
anastomate. Carminat + cordial. Ove. D. mild. Used
in fevers. Typhoid + Typhus. Comb with acids. HCl + quenches
thirst. In late stage. fails of cancel + petech. + prosthe
it. Agr in Dysent + Diarrhoea in ch. forms. with debility

with Calech Kino. Int-mus-and good with it, of intot-weather
one in Bronchitis and ch. Mec. a prep. in B. Ph. Infcas. car. acet. un. Scill
& Tinct Camp Co. In Pertussis good. In atonic dysp.
Pulvis. ℈ ß ʒß. Infus. ℥ powd. & slap in Oß of A.D. bo
mineral 2 hrs. strain & use. Dose ℥ß ℥iß. Tinct Co. ℥ iiß
corr. O. ß of P. Sp. 4 peculiar or macerat ʒß ʒiii add. cold.

Cusparia

Cusparia febr. Galipea Officinalis S. America, also
banks of river. In 1788. Tam. Rutaceae. Bark used. vain
ble 6-in. upwards. 1/4 in. breath. Quills or flat. nor in first
Outside nor of lichens. Epidem. detached. dem. rough, unequal
wever. unequalite & fissures. long or opposite soft fragile
crushed dow. Inside liber of laminae, fawn color. fibrous
fracture. Bitter taste smell desagreable, loose [illegible] dying
adulter. false Angustura bk. for Mix vomice bk
wh. poisonous. diff. inside of True. is fawn. False is bk
2 True soft cancellated, friable False compa. hard & hard
to powd. 3 False bitter intensely so. 4 True offn od-
or. not in false. Analysis Cusparin, act principle.
is neutral, get 1st tincture then concent. & it deposits white
& amorphous. No Nitrogen. 1 1/2 % of subl. Heat loses 22%
Sp. into bitter solut. 2 test. HNO_3 = green not permanent
H_2SO_4 = yellow then reddish. Resin. 2 one soft oil hard
Soft acid & bitter. Hard not. Soft a vol. oil with it. Hard
none of it. 3 Vol oil not much. pulv. reduce H_2O & distill
S. dose. in wf. appe bitter sc. &c. Over d. excitant pain
tors of appe. Emesis, & in fever with brain disorder. Occas
arrest of secretion dry skin. some t. aperient. Used in
dyspepsia c̄ debilit. & inertia, best wh. no inflamm.
In persons weak in muscles, sedentary. Infus. with $MgSO_4$
with tart. of K. and some mineral acid & lim. In Remittent

fever & Neuralgia Prepe Pulvis 8 III - ℈ introd lignin &c. & incert.
2 Infus ℥ 1 in O 1 of A D boil. when cold decant. & cinnea ℥ ß
Tinct ℥ 14 in O 1 of P ß ℥ ß

Calumbo

Cocculus Palmatus of africa on shores of mozn Root is used. It is vesiculated, all unite ted at top. Each is fusiform swollen in centre. Outside warty wh are yellow, soft & fungoid. Bk light brown deeper in situation, longgrove. When cut is seen concent layers one on another. Bark constitutes a rimation of sussex. Bk lime & with it, non. Is sliced, concised across in 1/2 in. thickness smaller. Flat inequal surfaces porous & hard, absorbs moisture. Taste bitter & mucilagin. faint yet disagreeable. Adulte with False C. bark. Diff. Det solut of each Tine. 1. Iod = blue & deposit. False. no effect. 2 Tine $FeSO_4$ no chang. False = blk compound. = wk 3 Tine C cyclate = no alterat. False = copper deposit. Accent Tine has starch, wh is absent in False. In false has tannin wh is not in the tone. Analysis. Calumbin. Is neutral. Cont $C_{44}H_{22}O_{14}$ Made from Tinct Calum. & yellow wh soon fade. S in cyclat. Inter bitter no odour. dis in H_2O & acid & K Sp. acetacid, Pp g Inf of Galls & $FeSO_4$ but no ch effect of tannin. Is with and Calumbic acid as a salt. & cause of colour of the root. 2 Berberin also in Podophyllin 3 Starch in large amount. Internal often no result. If invalid wh is weak no appetite. Antiemetic. No vascular & intement. Lime good in fevers. Amylaceous tonic. Uses. Good antiemet. in pinel des optimal. Mom sickness & are with Tin Nucis vom. Tin Cal with very per dose of T. N. vom. Good in sea sickness & biliousness. When vomit on organic disease not good. In fevers when convalescing. Good in intestinal disorbitating with flat alcohol. In relaxation & somehow good in Ch diar without tenes

In oxaluria is good c Int mineralic acid = best that can be given
Prepe. Infusion dose ℥ß – ℥iii Witt Tinctur 2 Tinctur is best
for keeping. P. Sp. is yellowish clear dose ʒi – ʒii. Extract Ca
Root in P. Sp. then in percola & H2O this till no colour. Then evap
orate to syrup, sel acide & inspissates. Dose v – xv gr.

Gentian

Gentianan. Lutea vel flava. On alps & other European mountains
Gentianaceae. Root used. variable by 6 inches upwards. thick. thin
to Rudiams. Soft texture corky. dried into malleolar portions. several
fibrillae. Outer epid. yellow. used & strawtint. In drying much
loss. In consequence = shrinkage sinew. flexible but not corky as
fresh. Bitter taste & bad odour when fresh. Old same none of
P. Sp best mentions als but H2O Analysis 1 Gentianite is neu-
tral. seldom pure. is c sugar. offer bitter. Is yellow. Sol Infus
add Pb (sugar of) when stop pp. mix & percolate. clear by below
evap & pot. R. Sp. which dissol Gentianite. $C_{14}H_{5}O_{5}$. Unite with
acid = salts. Gentianic acid = acidula & deep yellow. Add
tilmus. Effect Carb 3 Sugar. & vinous ferment get in consequence
Vol oil. is ima Cut 3 ℥ß get is thick like butter. sol in ether
Adulterated. Nauseous tora. Gentian pure is tonic chol oxygen & apsin
of any of kan. is narcotic & centrospinal effect. In dose in
pulse sheat & stimulate Infus & Int fermentat most potent as
vol oil is. Uses. is pure bitter tonic. use in cinnamon &
atony. Also sluggl liver promote bile. In long jaundice
c Carb alkal or Int. mur acid In dyspep. c weak peristalsis
Pre Infus ℥ß ʒii. take ʒi ʒ of Kill org ʒii of lemon peel oi
of A.D. let 2 hours & then use. Never with free alkali. 2 Mis
tura Gentianae. Use root soak in P. Sp after this. put in percola & A.D.
pass this. Gen in less ʒii – ʒi. Tinct. amara is offi
inital of Stinton Bill. Gen, or peel, & Cardom seed & P
Sp in ʒß – ʒii seldom alone. c Tin Cinch Co. Extr. 1 of vol C1 of
A.D. hot. bit 15 vert & emanat. Used in pills purgative. Soft does not
harden

19/2/71

Hop

Humulus Lupulus found in moist bush. Flanders first now in Europe. Strobile used or fruit. 3 male. entire first rouls & Lupulina. Strobile is ovoid. scales, each 2 ann shape as other largest at base. Each is ovate thin at borders & m cut. yellow & bitter. Fresh odor is narcotic. Analysis Wax gum lignin & saline malt. Ca & R. with acids 2 Nuts below the leaves. small, yellow & hard. Cruciferous a albumen. Dust between the bases = Lupulina used per se. most effective. in large ann 143 got fr 6 lbs of hop. found glandular. yellow & spherical. for H2O sep vale. in Cupuscle Eah. resp the original. only yield Lupulite got 1st a. aqueous extract. dig in R.S. & solut concentrate next with Ca = mud of dep. remove the & the clear liquid evap & treat with S. Ether = Lupulite. Ann op. bitter. not affy Tind Ealla or Pb. sol in alcoh or ether. also fall matters. To sep Lupulina beat & sift. Actions tonic recent an & halat & = narcotic. Liquid prep a same Lupulina in add is calmative sedative. used in nervous disor Chora, per vigilum. In spermatorrh 2 p at night & increase amount. Pillow as inducer of sleep Dried little use for this. occa mouth with alcoh & will do Tind Humuli 3 p - 3 ii with other

Quassia

Q. Excelsa. dissem fr simaruba & amara. W. Indies Simarubaceae. Tree lofty & wood used chip & int bitter. remove bark. small logs = 5 feet 1 in diam. ring in all slices. Wood at first white & on yellow. old ha saline incrustat. Is bitter. H2O P. Sp & alk. get act pr. Analysis Quassite made as Lupulite. 1st solut then with Ca

Evap & dist with R Sp & ether = powder. or in crystals
reader in H_2O with acid. & in alkalis. Heat into fumes
Used as tonic. in dyspepsia. poison in fl. ve bowel
& paraciticide. It is aperient occa stimul liver. Exterior
antigent and antiseptic. Used in gastric disorders. In
vole & remittent is good. In paroxysmal disorders. Paris
recen to prevent pronation of worms. as Infus. ℥ leap
in Ar D. O ♃ lovely. for 2 hours. ℥ ℥ ii. Larger occas che
with. tinctu aer. dim vision & vertigo & opinionular
system &c.

Salicin

neutral from Salix. Infus gets it of the bark. of fresh latter
& Inf. sh. it will deposit spontan. Ext. Infus slowly clear
it with hydroxide of Pb = deposit get rid of it. & cla fluid
Then H_2SO_4 or $BaSO_4$ removes Pb. then flu concentral = cry
stal of Salicin Purif. dissol in H_2O & recover. = needle
with fumes are delicate. colour white 200° = melt. 100 H_2O
dis 20.5 of water. Solu RS & alk. not in H_2O. In Infus exp
supp kept dissol of the constu. Taste aromatic & foll
by bitter. Left handed rotat. H_2SO_4 dropped on = deep blood
red & retains the tint. 2 Chang int vol of Mercurius (yellow & sweet) by Cromic
acid in retort & distil = fluid & aromatic. Heat = pleasant
vapor. While depos on H_2S. Some use as tonic and antisp
substi for Quinine. 20-30 grs cut short an ague. Pres. in 2-5 grs
Best in small doses & large before cold stage. In relapses
is good. Benefit in remittent. In infantile diseases. Give
as powder or as pill. Bark of yellow used but is clumsy

Myrrh

from Balsamodendron Myrrha. Terebinthinaceae or a
distinct class. a Burseraceae. Resin & udal is used. for
spinal separat or the wounds. at proper season. of cut

fluid issues & soft. Often in state of air humid state favours
Met of diff qualit., 1, 2, 3 kinds I superior. in cases or chest
lumps variable, size marble to fist. bigger the pieces better. outside
dust. by attrition. when remove = rough & nodule & yellowish
fibres = transparent. Is aromatic & bitterness in mouth
soln in K.Sp. on one to H_2O. Test for purity fracture it & exam
grey aspect & variegated. lines thro it. Is inflam. & fragrant
smoke. = Picked variety - diff a little for those regulated
species bulk of valuant while colour & clear straw tint no
adult. No. has sometimes. II Met in small way pus hen
& to pea. Opaque dull no polish free for adhr powder. broke
lines arrange not seen. not as inflam. & rendum is more
little not as fragr. adult with re III worst. known sophis
and Indian delim. & senegal. Prices. for finger top bivalent
rough & irregular. polyhedral. dark brown or extern. ocas powder
& mixed liquor. Exam. 3 substances oleo-gum resin, 1st
vol oil. by distillation. heat - light straw. 2 Gum. 2 soils
one sol other insol. 3 Resin. get by dess in alcohol lattice
oil & it. the insol. Resin pp per sec soil left. 2 subresin
one soft other hard light & pungent & biting. Hard resin
is brownish black. pure resin no vol oil. Is tonic and
infl secretion. stimul acts of capillaries & app insolat secer
Heat in large doses - warmth in abdomen. relax bowels. Emm-
anagogue. Expectorant & diaphoret. Locally astringent &
disinfectant. Dentifrice. hardens the gums. In stimulating
Cyanide, dilut. Cond. ℥ + ℥ iii of H_2O. Externally as bolus
in ulcers foul & sol cinder ℥ss - ℥ x of H_2O. Augm by astringent
salpt. alum & zn. good on of Tin Cinch Co & Tin Myrr = pt.
Appl in pt but pur in proud flesh. depress the
& get absorbed. Tuber in atonic dyspepsia & dose
dbn, is with aloes. with Rheum. Good in amenorrhea

Preferal. Tinct myrtle. ℥ 1 ss in 01 of Rx ℥ ss deep amber clear not kp by peculiar. In Pil aloes et m. Tinct Co. Dr ale Co Mix Kin Co. Pil Rhe Co.

The ub cons, then ub susp. then ub in

Modifying ones. under this antispasmodic an agent ub have capsp slopt mord mucl cont one in ub spa ex Tonic oth is clonic. Can affect morbid muscular action in muscles. Contra utility in muscles of 2 kind that ub is in situ & that transmit of nerves. On never centre 1st on cerebellum. where its funct derrag. is stopped by there on Med oblongata & corpora quad. On motor trab. reproduced only. Though this ultimate act is shown. acts indep of will of the patient. Two clas. Direct & Indirect. 1st absolute & independent. Indirect only occurs in antispasmodic. Are various in Rind. Consist from dissolved and digest in a ping = an indirect antispas. In mg altered blood & Tonic gent. an antispa. If under opp circumstan no good. 2 Clas are 1 const. Stimul & Sedat. 1st excitant. exalt heat raise pulse, & temp. pyrexial, as diffus stimulant. first is transient. Sedative opposite no tem in circulation no exalt. are depressant pulse falls & temper. Are nare otic. Opper the Ne system too partial. Other modes. In 2 sig Inner & circulator. In some absorbed & diff the ro in others. to inflamm & quick & on sequent nerves. Drug thrust also act in this way. Not the effect of over stimulation. Into Physical & Physic. 1st act on emot cons of the pigtle out of an attack of spasm

Conium = Hemlock

Con. maculatum. has dotted on the stem. Two part. leaves

and fruit. Lean like parsley. lower ones comp upp bipinn
& green upper. under pale & grey ch. & serrated. perh. lean
most valuable. Fruit is dry 2 carpels. 5 ridges. wavy and &
seeds action small & blk. Act principle is Coniac or sitotic like alk
nitobacco is liquid nature, & is lumped & clear. on keep = thick
& muddy. Power over marrow spe in antitract deadn
= paralys. comm in extremit. from extract 20/2/72
& with by K collect volatile & changes in air & light. $C_{12}H_{14}NO_{11}$
at first colourless tends to get thick & brown. with K & heat = vap
ors alkali & act as NH_3. Odour like mouse & tobacco light
Known 1st with and = salts at first green. change to redd
brown. 2 Tr Iodi = reddish brown. 3 H_2SO_4 & $AuCl_3$ = yell
brown. Is energetic 1 gtt in vein of animal fatal. on eye
of rabb. = action. acts on locomotor organ — paralysis is
swift & spread from extremities to trunk. Specific in ant
tract of spine = deadening influence. II Vol oil. got when
distilled. odour differs is calcium & mouse K. When old
a test for Coniac add K & get the odour. Is only test for oil
other not striking. Actions. S.d. alert by & deobstruent. com
menced in S.d. & may increase & get table enormous quantity at last. In
fluence on muscles is certain antispas. Good in irregular
in offunctional derangement & no inflam. Influence secretion dy
-ness of mem. tongue dy. thirst & dragonette feeling
bowels constip. urine sound. Has sedative virtues
in thoracic disease. allays cough. once as stomach dis
antiscroful & to prevent enlargement. Also as resolvent
in benign tumors to promote absorption. Used in hard
tumors & over Schum but no good for cancer is only palliative
Aphrodisiac reproduces milk. Toxic. Inspiration. shallow
halo but is uncommon. most in muscles. Zea ones in fatal took
large dose. Weather flower limbs. feebleness & staggered

Lookup Punda vasculosa

legs paraly. soft flacad. low temp. next same in upp & lo
then weak voice & resp. Nolethargy or stupor. Pulse soft & com
asphyxia supervened. Brain anaemic. pallor. 2 Inter
of heart speedy & haunted. Lung engorged with lumped od
Treatment. emesis & pump. 2 stimulant rhtz & coffee
Preparation In B.P. 2 group. 1st Seeds. Tinctur. ℥ii of
Seeds. in O1 of P. Sp. pack in percolator & pass thro. Dose ℥ß–℥i
Fruit or of Cornin. 1st Calaplasm. ℥i. ℥iii of Linseed
℥x of H_2O boil together & stir. occa in cancer. acts topic
ally. Useful in ulcers wh spread with irritation. lessen
excitement. Soothe in pain of any kind. In bruises 2 Ext.
Conii. Got from fresh leaves of wild plants. Express & matter concentr
rated. add residue material to fluid wh pass thro. is green
extract. Somet sprinkle alcohol outer. Dose V–xx gr. Soon spu
-ls. Can take enormous amount in 112 dy 57 oz used. Once
420 grs in 7 dys daily. Seen good in Phadedina. prevents
its spread. Tert. extract the cornia. mix with R & distill
3 Succus Suspir. same as previous express. fluid added R.
Sp. iii of succus I of R Sp. stand 4 days. Dose V–xxiv Uses
In scrofula. not alone. good adjuvant to Sul. & Iodin. In nerv
on affections. – palliative. In Rheumatism with paraly
Paraf Agitans & Hypalsy In all. perhaps good after long use
In Ch. cough. & Bronch irritation diminish mn. mer & secret
Pertussis with Ipecac. In Phthisis relieves. Tinct. Isbert
Tetanus, used in Hydrophobia

Calabar Bean

Physostigma venenosum. in Africa. Calabar river is
a creeper. on a tree. Uber ripe fruit drop into the stream & got
Bean. uniform Twice size of horse bean. 1 inch length 3/4 broad. Two
surf rough & warm. brown-ish purple. not uniform. occa grey or
black. Two bodies one concave. other conv. In convex body

Physostigma faba

deep grove with border. polish. No grow dark markings. Grow
ends abrupt at one end & at other in a fossa. Coat of three layers. Et
colum. clubbed chap. 2 cellular. with spherules. dark
3 dark liquor. Nucleus white cream color. not acute. Surely
ryo. large. Starch cells in it. Analysis. Physostigma
Sol. Gbrak nut & digest in Ab. Alco. = tinct, concentrate =
thick residue then S. Ether. then volat. = alkaloid. pinus
salt. never solid or in crystals. oleaginous, in drops in
small granul. reddish brown no odor. Dissolve acid
& alkalis & alcoh & Ether. not in H_2O. KI = orange red tint
Small on eye. under closure of pupil & is best test. Prepar-
ation. Tinctures. Frazers tincture ʒ i digest in K Sp ʒ ii
& get ʒ ii of tincture. sherry like clear do II–V ny. Next. 1/2 the
strength ʒ v in 0 i of alcoh gr in double the dose IV – X. Extract
alcoh. & nuts cleaned of outer shell get tinct. then concent. at first
1/4 of Sp it stand till soft then in percolate & 3/4 of Sp pour
red on. Then reduce to consist of extract. Most reliable of
extract. 1/12 – 1/2 gr. Suppositories, & aqueous & vinegar extra-
cts. no good. Supp with wax & lard. Papers. form for
ophr. steep tubular pap in tinct & dry or Gelatine. subtle
in. cut in disk. size of nail. rare eye & insert beneath the
upper lid. remain about 20 seconds of paper if gelatine alone till it dissolves
Actions. incorrect as S. Eudis like sensat. Then dry mouth
fill with Salv. acid throat voice weak. If repeat then tells
on circulation. pulse softer. & slower. Surface hot & perspir-
ing. Cutter feeble prostrate. Limbs heavy. voice weak
& pupil small = pinshead. Change in pulse more. Soon
nausea & vomiting headache & diarrhea. On Eye, cause
cut of pupil in any way. Topic influences one eye. swallow both
Cons in 10' after & goes on till acme in 30' & is abiding & last
3 days. If previously dilated with Bell it brings it down

used in this & mydriasis. Vision. short sighted. in Presbyopia
not def. vision but correct the near point. operation ciliary exces-
muscle rendered less convex. In Presbyop. useful. On Pupil. Cera
radii plus. aff. motor tract of cord. Also colour of iris no
paler. Conjunct. suffu. Lacrymation. Infero outside ~~the~~
stiffness noticed & same as Ptosis. Infero pain in the
supraorbital ridges. Muscles = paralysis loss of mus-
cle. cal. in outer tract. reduces the polarity = unipolar
punct. act. check refl. & nervous act. Is not cerebral inter-
ses symetrical. & point in patient not comatose
but is intelligent & conscious. Loss of volition. inclinat
is there but will is lost. In some can overcome it a little action
Also fit in legs. creeping. low fruit. then upper same
as coma & similar in action. Death of lead by asphyxia is
in some syncopy. Toxic. acute. 1st class in at first wakes
at stomach thirst. mouth pills with mucus. Then dyspnoea
play & aphonia. Pale. weak pulse. & faint. is & syncope
so rapid orgy die at end of 1/2 hour. 2nd class. Lives longer. & infer
apnoea. face is livid. lips blue. dysp. hagia & aphor. same
but nausea & smell. paralysis. Then apnoea & contr.
of chest & dies suffo. Common in afn. the ordeal
poison. Chronic cases severe hours. different. not very
same wake. vomit & purge excess = white thick my-
dischar. waly & serous rice water stools. Pulse wakes. death by asthenia
P.M. little. no chang in M. mer. nonulating prop
ertie. Pale. Deck in alum. canal the whole thick in
all. = bear in substance of the analyses. Tests
Sol. c Iod. = orange. bro. of NH3 = yellowish & dark Cen:
(3) Best concent till dy. c MnO & H2SO4 = play of
but violet red & then yellow. Treatment. vomiting
of liquid. stomach pump. Stimulant. all good. tough

W. Osler. Jamesbowell M. Dinkel

Electricity in cure of Phrenic. Artificial respiration. & Syl. obstetrics used. Used in Tetanus, not in eye care. not with & tetanus-nerve lesion or perhaps nevers. Used in centric disorders where clinic in function. In most of Traumatic tetanus no good. Extract use of quart or hypod ½ gr. th. add ~~the~~ $NaHCO_3$ is less irritating. When there is a less quantity the mouth. repeat 15-20 till act. In Eye. of pupil cont pulse of soft & slow 3 by tetanic spas. of spasm. cease or not as often. & of nausea & temp falls. When there, interval or length the period. Used in poisoning of Stryn 2½/72

Strychnine and Calabar Bean
na as the ^ are opposites. of one another (1)

(2) Stn exaltes reflex nervous action

C.B lowers it (3) St produces an exaltability of surface & mucous membra
C.B blunt nerves of sense & diffuse of commonsensibility. They neutralize each other. Found effect of one is mitigated by the other. Few of animal saved as syslen under two poisons. & of one know other killed. S over & all of second mouth
C.B represses it. Relief was short. In most case of St. poisons Cal Bean. Sulph in Bellad poison. but not so good. do not act on same part. Bell on cerebrum. CB on spinal. But change in pupil indicated it. Used in Nervous Chorea, Rheumatism, Irregular movements. Seems most in Inflam of mid spinal. Myelitis or meningitis & in overaction of motor nerves

Cannabis Indica

Used for long & used in Ear ache never internally. Used also for excitation = the Nepenthes. Names Delusion leaf. "Cure of friendship". 600 a.d. then Persian. Nat of India Persia Fan. Cuticaceae like corn hemp but diffe 3-4 feet high lean stiff, & resin on surface. Stem tough

and form cords. Seeds contain oleagin matter. Forms one Gungha in fasciculi 2 feet long & 4 plants cut at root extend & dry. Bung. men of larger leaves & fruit in irregul masses Cuvis the pump. is the exudate collect fr leaves. Got by picked off fingers. Other in leather or dresses & run the feet & so get. In some go naked. Got in Peru by handpick. Boil & collect sum. In mass. shape ovoid like hens egg in but R. round & smooth. Taper from the centre. colour grey with brown. No smell. taste warm & strong flavor. Adulte. Seed. stem. bark. leaves. Analysis a Resin which is acid. Got dig in Alcoh. concent. then in 2 ans of H. O = brown gree. Warm balsam. fant odor. Soluble in Alcoh & Ether. Ak. & acid. Actions Used as antispasmodic & narcotic & hypnotic. is sedat. & blunt. Comm secondary. L D & S D repeat. then insanity and hilarity & often delusions. Give more convict of truth of delusions than any other. Loss of appreciation of time. Occas. light feeling. Somnol. impulsive feely in Indians. Some of them do anything while under it. As narcotic by long sleep, but unbroken & wakings. Occas. shows in motions & balancings on heels & toes. & giggle at by stand. S. Dis. up secret exp. Kidneys. lessens urine & = viscid as Conia. Eff on Uterus muscles stimulated but 40 C. I. more rapid than Egot 2 Less permanent. soon pas 3 Pain are more powerful than Egot. In some cases it is good combination. May contract circul in the Uterus & Menorrhagy. On Heart. dimin. rishes pulsation & often incr in power of arteries. in depress & collapse. Restore heat & pulse reaction. Uses. In 1839. Dr Shannery. as Ktanus In Europe has disappr. Is palliable infer to C. Bean Some determinat in its passage to England as given

in 3-4 times as large doses as in Indo. In Tel. gen xxxy of Tinct the x-xx incl 30 t maintain, & give ice to spine & stimulants
2 In D.T's often melancholic &c. & Cit. Ind renders him cheerful & induces sleep useful in mania as puerperal kind. In Uterus as Ectolic agent. Good in Menorrhagia not in large amount, 15 mg ech for hrs. In painful disorders. Rhea. Sciatica. Neuralg. Increase of Valer of Zinc or Fe. Palpit of heart & get quiet action. Collapse for Cholera = reaction but effect is short. & stops vomiting & purging
Preparation. Either Extract or Tincture. Ext. Cumis or any part. Digest in $NaCO_3$ weak soln in liquid K_2O. Then remove in alcohol & add Ca then KSO_4 pp remove by filtral. Redn clear liquid to 1/4 digest in Charcoal & then to 1/4 & in 2 weight of H_2O = it separate. Dose 1/6-1/2 gr in die. Tincture for Resin or Extr 3t 0t of R. Sp. Stand till solid occ. Dk green opaque from green mixture x mg to 3t

Valerian

Valeriana officinalis Indigenous. 2 Kinds. Wild & cultivated. Wild most powerful. Cul more fragrant. Use root. It is tortuous, pieces serpentine & join in one head. Exterbank reddish brown, Broken inter white colour, pin in small amn. Odour, cats like it. Tuck warm & camphoraceous. Powd. is soft snuff colour & sense. Analysis. Valerianic acid. It is the source of energy. forms salts with an medicinal. 2 other constn but depend on vale. Is liquid & likefully acid. Phocenic. Clear transpar & colourless. Volatile at 270 then vapor. Inflammable dissolve in 30 of R. Sp. Is passed into Barylol. Ill = 47. Ofacid. Use up root. dg in $NaCO_3$ from in retort c H_2SO_4 distill & get in receiver. Deoxidised for Barylol

also vol oil but amount is scarcely next resin 3 extractive
two sorts one soft other hard. Soft from with Pl acet yellow. When
actions
internally is stimulant. rouses pulse. veats fruit. heat
more energet. warmth of surface. as stimulant. In over doses
headache vertigo. In languid circulation is restorative. In Eryth
Erna of stomach is bad causes Emesis. Though powerful
also antihysteria & relaxat. of bowels. Used. in Hysteria
removes. the pain inside. the globus. again the pain in
head. In bringing out of & preventing parox. Combs
c Camp & Hyoscyamus Dos Tinct 3T & Comp Ammon Ivy
In low fever. when long. continued & subsulter tendin
muller delirium. Is restorative Same inde as call from
dropbal. In Cephalgia. In some dissol. Pertussis
& Layge slight. Prep Inf. 3T OT of boil a Dr. for
½ hr. Tinct. P.S. with with Sp Aeth. Amm. = Tinct
Val. Co D 3f - 3ii. With ammoniated alcohol
Dose is only ½ as much as 0

Valerianate of Soda

acid is in Bituminous & c. Fourel oil take it & ($K_2Cr_2O_7$ $K_2Cr_2O_4$)
a retort with Sol Na. & H_2SO_4 acid is formed for oil & is absorb
by the Na = Val of Na. Then concentrated inside & deposit
Is white in trifl. Heat forms yellow. Is insoluble in cold
Not in medicine.

Valerianate of Zinc

Val of Na & Zn SO_4 Ecd refer dissol at 200° then mix
& deposit subsided. It is in crystal. nearly twice soluble
1 to of cold 60 of alcohol. No odour. taste disagreeable. Adu
terated. c acetate of Zn. Known by pour H_2SO_4 can val acid
dis & Known smell. of acetic acid in same way. If baby
ate of Zn. Cu acetate = green compound. Is antispa
Chorea & is good 2-4 grs. less at first. then more

my prode cestro spinal dish. As Pel with x calcium

Valerian of Fe

Same pr. Val of Fe c. persalt of Fe. When collect & dry is amorph. reddish brown. not soluble in H_2O & dissolved in Adulter. Cit. amm. Fe. Amm. cit of Fe. flavoured with valer. s passes for it but is soluble. tried in same set of cases. best when anaemic cases. Dn 2-4 gs.

Valerianate of Quinine

Same pr. Val rea. the Q. SO_4. Powder white & fine. useful tonic and antisp. 1-2 gs. In intermitted fever with ague cake. Chorea. & Rheum.

Assafetida

Narthex Assafetida: fam Umbelliferae. Persia. Root. sized. large. Unckas leg & black. flat & cone shape. fibres above. brown dem. & inter juice milk white. Clear of earth at upp part & lower leaves & put below. leave fr. x week. then cut off top of slice fluid & udes & unp. real. in 3 days when scrape off. 22/2/72

Dominion Eud. April to July. Get in pots round the vent. and buckets. Slice upper segment & on 3 day concrete matter scraped off. and let it harden. Same root dealt with two or three time in ~~48 hrs~~. Characters. Masses & terminally tinted. brown & hues. yell. pink. or red. Mottled pr. spots. at first soft soon hard friable & reducible. Broken grey & white. Chung to ~~[illegible]~~ violet or peach blos. & recognizes it. Tarle. bitter & acrid. aliaceous. Inflammable and odour. Two kinds I Corpuscular. in small nodules. occas. larger. vary pea to nut. & to round smooth pink. aspect. In an dull. outside dusted with powder. Interior is grey. soft than lump & not so tangible

is pure no bark or lean. Lumps in masses. irregular in figs
and bulk. accumulated portions. Less red than other
yellow brown. wrotted. Broken never same depth of tint
one species. Amygdaloid. & can surface white spots like
kernel of almond. & around it is light violet colour
Analysis. Volatile. white. transp clear. soon dark
yellow & inspissated. 2 oils both sulphid. of amyl
no oxygen. volatile & are disagree. but taste. II Resin sep
Tinct. concent & thrown in H_2O get at once. 2 kinds. (a) is
yellow green. no smell but taste is alkali. inflammable
with the ol. (b) yellow brown. better taste. diff. 40 to 1 of form
2. III Gum. insoluble. Acts. S.d. antispas. & diff
stimul. $\bar{O}O$ to stomach. mean at epiga. Promote
digestion. & is condiment sized for it. Appetite improved
absorbed in $\bar{O}O$ & to organs. Set up stimulat. Heat
more rapid. Perspirat. but is a dyaphoric. sweat
is fatid. Then the R_2 pulse mount & = skin expector
. Inner peristalt. = aperient. no increase of mucus. Z.d.
15 – 3. Emetic nausea emesis & headach vertigo
pro. Emeningogue. but is slight. Preparat. Tinct. R.S.
℥ii p. commuted. in $\bar{O}I$ of R.S. for 10 – 14 days. Dk
red. clear. Dose xxiv – ʒi. In some larger. ʒii or
ʒ iß in the detail. With H_2O = thick milk. Enema
℥i of Tinct. ℥ VI of Mucil. of Starch. Pil. Ass. As Gal
bar & Con Ros Gall. Constituent in Pil. Al et Ar. Ape
Uses. as antispasmodic. is in palpitat. of heart in
weak persons with no organ derang. Often full dose
stop it. Cardiac tonic. Angina Pectoris C pain
good with HCN & Belladona. In Pertussis at end of
it good. as plaster on leather on chest. Dyspepsia
along of stomach weak. inlet dig. Flatulen

dulc of abd. & compl. it is good. Colic mindy is good. perfectly as antispa in convul of kids in dentit. Hysteric good more powerful than bals. or add together. Convulsion of adults c out cong of head. Pinnacle acts of aloes. Worms. lumbricoides, by anaema.

Galbanum

Source uncertain refs to Bulvr Galb. G-offic. African or another part. Some think of Persian. Exudation is officinal. Gold incision. made the stem above root into the central axis. Fluid. comes out milk white soon dark. Lik Ars. in ~~Cor~~ Tears. small pieces less than Cor ars. size of pea. round. smooth no mega al or dust. outside. same tint. yellow brown. broken smooth & fally. dull white. no change as in Assafed bottles similar than ars. more oil. In Lump. in long mass. small nodule together. often unpeel. cover some soft other hard. never so pur. traces of foreign matter. Melted. reduced down unif. & strained. G. colatum. Analysis I vol oil. same clean as ars. $C_{20}H_{29}$ oil variety of tint 3 oils one cute. 2 yellow 3 indigo blue. seper for resin lake it & heat. at 200 passes over. is volatile Resin soft reddish. desq alk smell Ach. S.d. like assaf. diff. in more & a tant. & heat & vascul system due to vol oil. Md. gastric derrange & dyspepsia. Opiate as aperient. Stool liquid. Some think of Emenagogue. & = Uterine resin of the German. Used in dis or assaf. Externally. Emp Galbani. Ph Pla ster Gal. ammon & wax. melt add & stir = mass. Good in rickets. acts mechan & absorbs & act so. In spine dorsal. cari. Rott curved in it

In joint adhesions. Is stimulating. Often as dispers in. on boils carbuncles. causes suppuration. Pil. Galbani Co. Gal. aris & Cypripedi. In hysteria

Castoreum

Castor fiber in sac. in pot of pubis one on each side meet at comm canal. pyrifom. get narrow. Covering hairy coat. the muscular & are well developed & surround the sac. & compress its contents. Vascular one beneath. under this the fibrous. 2 surface. one thing oth is free inside the sac - dark & soft. has scales has crypt - with the glands are lodged. and secrets castor at fr fluid orag yeth. diffluent. In air gets thick gets brownish colour. Besides these sacs. two the oil bags. smaller. size. no medn. prod. a tube from them & from. sear into cloaca. Castor sacs open under the prepuce. & near urethra. Kinds. I Russian. II American

I Russian. (a) chalk. dry in small bags. not so pyrifom. Outside glossy. blk. adult with chalk. friable & earthy. HCl = Effervesc. Is hard. and no good. (b) is dear. 12 times as dear as other. Removed = bags. & tests. Extern no CO_2 with HCl dark greenish black colour. American. Longer. They terminate in one comm canal & testes always present - not so always. Sacs keep better. no moulding as corrugated. brown. & dark removed. tests & sagges

Analysis. Salicin. Carbolic acid. Benzoic Phosp & Urea with K. Na & Ca. A. pr. Castorin. neutral matter. Other small acts unpr appetite. If mixed state is good antispasmodic. Stimul. Nerv. system & sedative succeeds & sleep comes on pupils dilated. Sleep is heaven the nature. Same cases as ass. Tinct. ʒi – ʒii

Musk

Moschus. A.t from M. Moschifer. deer of the bet. tinned
Gryanum. distinguished by the hair wh is wavy. &c. Musk is in a
sac. under the abdomen. near the penis. Prodiar
prop. flat surface & from it rounded eb. = plano-conv
a dep. at summit & at the bottom an aperture. wh tens
in interior. Ring of hair about the apertures. Coats. Hair
coarse & long & of detached. next come in. is mus. cutan
a distinct one. attached to the pubis. 2 pump is a retractor
& compress of the pod. 2 Fibroid. inelastic & tough. 4 ber
is pearly coat is strong. depression extend inside. the
glandular. It is thickest & prolongation: is soft vascular
2 Qual. Chinese. best always a ca in cadd. c
silk ouls. under paper. 24 pods in each case. Brown
grains coarse in texture & odorous, & musk. with
grains. are some hair. Russian. In boxes of wood &
rough. Pods loose. & larger & soft & darker. Hair is coarse & long
. Musk not as pure or as much perfume. Imitated. Mos
Chs musk. Pods not genu. are a deficit. white thread
& at top a hole is punched. Not same deposit of hair
contents. mix of oo with NH3 & a little musk. detect
pod oo of inner white residue left. not case in musk
Analysis I vol oil. = odour pineapple, is in small amo
is thick. This can evolve NH3 in air. Odour interf NH3
also fatty. stearin oleins Cholesterin & 5% of vein g.t
by I cell. Act. I.d 1-3 grs appr incre. L.d. 5 grs. under
Erythema. of gastr ment. Absorb = stimulant to nerves
Though be stimul expector & diff. stim. Used in same
as other & in Fever. low forms. Often about 2-3 week of
Typhoid & in subsulph tendin. & low delirium. & c Pelechi
Use is beneficial. In Inflamm. as typhoid Pneumo

keep up strength. In sub as pill or Tinct - KSp & $NaCO_3$ ℥ss ℥ of $NaCO_3$ OT of KS. d or xx - xl ry. golden yellow 26/2/72

Repressing inervation.

Anesthetics

bunts sensibly. Moves pain & get insensible. Several of this kind

NO Protoxid = NO_2

Initial of NH_3 & heat = vapour. In glass retort. decomp diff is liable of breaking the retort. so use large retort & in dose in box lined with zn. As gas is clear &c. like air sp 1.524. Absorbed by H_2O OT take 1 bb of gas. Supp combustion required. thro a mouthpiece connected with a bag & tube with a lap at least 2 inches in diameter. Object get removal of all air in the lung as if any air sympt as diff. it is stimul art. & = laughing gas. acts as stimulant. As anesth must be pure & free. Must expire forcibly, & close nostrils also two valves connected with the mouthpiece one for expired air till all air is removed. A gag is placed in the mouth. Whall all air expir gets under it at once. only a second or two = anesthesia. Can tell by wach. face. lived & pupil dilated & of eye fixed & no winking go on. Effect is short & transient. If remove in few minutes gets well again. Only in short operations hence in dental surgery. To get more profound, push still pur. Ch. till eyes recall & pupil much dilat. face violet & twitching of muscles marked. No danger now but be careful. If beyond this then face purplish. pupils wide dilated &c. Acts by pur the oxygenat of brain & sp marrow = loss of cum sensibility. Used in all individuals. One death alone in case of Phthisis.

action of Cl on Marsh gas. or acting upon Methyl or Ethyl alcohols with bleaching powder.

Chloroform $CHCl_3$

Cl & Formyl. when a hypothetical radicle $C_2H, 3Cl$ & $(H_2O)_3$ Formyl. units will many elements. Iodoform analogs to this. Found in 1831 by Guthrie of New York. In 1834 Dumas found prime. composition. In 1838. found that vapor ab. might be resp as Calmet. In 1842 Glover. allud to ach. as med. doses. In 1848. Flourens exper with it & showed that same tendency as S. Æther. In 1848. Lallemand used as S. Æther. Two claimant for priority. Simpson & Bell of England. Simpson used it first. Made varies. Ph is comp. Take Clor lime, 10 lbs. CaH_2O_2 9 oz Ca Cl. 9 oz H_2SO_4 3 oz R Sp 4 gals H_2O & 3 IX A_2D all Ch lime in retort of glass & 5 lbs of CaH_2O_2 add R Sp & H_2O distil till ℥ L come over & collect. This is crude. put through aft wash. with H_2O & lower stratum used. get & agit with H_2SO_4. This all on to rest & bottom layer used, put into retort & dis til with CaCl & CaH_2O_2. wash product & preserve. All Chlor made in Scotland by Duncan. What change are uncertain. Tests. Liquid clear heavy. 1/2 again as H_2O 1.5 or 1.49 lb H_2O_3. Grant. bone shaw it does ought to float on it. Impr. unless in H_2SO_4 & H_2O. Has odour - ethal. Red sq depends. Tarle sweet & agreeable. Chl is poor solvent for Gum rum fats & Iodine. This dissol by Æther & alcohol. 3 gtt weigh 1 gr. 1 ry wr 1½ gr. 9 gtt = 2 ry. dr is 288 hr weigh of H_2O. Volatility. gives off it at order temp. higher the more. Is combustible. In mix of the & air 100 me. of 40° ory 6 of Ch per 94 of air. of 85° 30 of Ch per & 70 of air. Cold got. Effect seen by hot sponge & allow Chl on it except cooled with front. Spirit hard to keep. runs into Chlorine & it compounds with H = Hcl & Cl. Known in this state is acid. if good is neutral & yellowish. of stoppers is removed it spirits & spry thin & Test for Chl = the

Test der but Cl & Mel. heat will do it. Adulteration. all depend on pure article. I alcohol. test. makes lighter. (b) if add H_2O = whitish milky. If pure on H_2O falls down to bottom & as it do divide into globules sphere & Cl. If with alcohol the globules chain. Chromica 2½ gtt of spirit in an oz. add if also green color mixture at once struck. If no chromic acid. bich of K. & H_2SO_4 will do it only weakens it not injurious II. Ether. good with it. not easy to detect. Tin Iodine if added = dark red. or dull red ash. If Chloroform = violet & is clear III. C Methyl sp. is unfit for use. when resp = nausea headache. prostrat & disagreeable. Rn (a) H_2SO_4 = if add dark brown oil pp (b) Cl gr same effect brown flk IV Sooner odor of acetic acid in it made with fermented alcohol V. pinking look from the manganese. but it is rare

Actions I locally. if pure result depend on skin, on the little pain but cold unless large & confined. then is irritant & blister. If cold removed acts as stimulant pain. but is short, loss of sensibility. bruit sensibility. If weak. on surf with oil acts anodyne. relieves pain. Used to produce ther good in toothache. cleanse out. drop on cotton with gum mastic rub pr. ls rapid evapor. relief is speedy. Rar that pure on the hide. sometimes painted over it. Lin 3 ii in soap lin good. benefit in renew pain in Pthr of chest. In pruritus in prungs. Injection 3 i 1 v of H_2O in rectum in fistula. C piles. interpils. Somet local anesthesia. when nerve expr of ch nea it loss of sensit & pass in pation trunk. In diff labour. sponge to perm with ch promote relaxation. In dysmenorrhoea. Internally. 2 opp effects as antiemetic or nausea depend on mode of adm. when neat = emesis as falls heavy on the stomach if as emulsion is antiemetic. in pruit vomit & sea sickness & morning sickness. Small dose v–xv g stimulant & ab heat & acid arteries. lets 00 and cause outer of sweat. sea son exalted, & senses. As stimul in low state of system

chil & typhoid fever. Lag ~~xx~~ & 3p different, non on brain
diminish sensorial pow. narcotic loss of sensibility &
pangoes. is anodyne & antispasm & hypotic & seldom pre
seeded by stimulation. In there good to relieve pain of
Cancer. not of stomach if ulcerated is stimulant there
& increase. Ulcerat of tube painful disorder. of viscera
Neuralgic disorders. is pleasant also in disorder of ner
syst. Tube & locally. 7 of ch II of olive rub over vertebrae is
good sedat. In D. Ts in infant hyoscy. Overdose pasin
3 once killed kind & year of age death in 111 hrs. 3 IV has been
lath & recovered. Syr. abol of sensil sentiment. cold. & shrinkage
pulse imperceptible. ~~& dead~~. As inhalation. effect
group. I. Indeawable. Pat alert all about him
senses good. At first & later cheek flushed pulse quick
heat present. temp raised. senses active seat of delusi
sight incertain. comp of ringing at ears. occas sensat in
extremet. In this apt to be emotional laugh or cries reads
& fear reaches pitch, & death ut fobl. has spring out of the
emotion. II Stage. Dreamy period. confused. not know
what is going on hallucinat. spe senses perverted, Simili
animal. loquacious &. Pre signs subsid. pulse normal
Plunging. mind movement insult. limb stiff then
relax. some turbulent. Hysteria or epilepsy may come on
most powerful in muscular subjects. Memory is feeble
Dreams. lewd. III Narcosis cover lost, & sensat volit
& acuresia. not moven. Face pale. eyes turned up after
ing of cells no winking. Is passive & obtusion. Cum pinch
Pulse ordinary. Respirate quiet & noiseless. no dreams
in heavy sleep. If pass & then pr = IV Comatose. face
purp pupil wid. pre slow. Stertor breathing. cheeks
inflated. Limb flaccid & dye involuntar. Deviatio

on some seen to rest it altogether. another is concave is kept throughout but sensibly is impaired III no intelligent but pervincing that feels pain (4) Son delirium produced, & maia ing be furior. Modify. Age. all ages. none so good as kids rapidly & uniformly. when once breathe soon sleep on 2'. Given at 90. more death at 15-45. Sex. used in Wem more than men but 2 no of death in male than female Sex mod III Habit. tolerance empt omniscul. diff to get under the action. Fat people take it readily. Weak people & exhaust under it rapidly. Intemper. bart proper action highly dangerous in cerebr. 9 cases. used in D. T. all fatal. Reason is chain in 60 is more carbonate only product & death by nacrum 27/2/72

Next heat. disease. thought is a prohibition. 56 fatal cases in 21 heat norm 18. fatty. 14 soft & flaccid. 2 valvula Aorta incomp Elency in 1 external fat copious. Most impost pathol state is fatty. be sure has no sign. Recogn by lemon yellow complex. cong capill on cheek. arcus senilis. Hirsty liable to fainting fits. pulse intermitting. Supposed that disease of lung. contrary. But not so in snow cases Has given it in phthisis, found when acute phenom increases the symptoms, cough &c. & conclud experience Old cases found that relief is experienced. Rule of any death not of lung time. Chlo not safe. Though of Epileptic not good. It is Rusty point. Though once to distinguish between true and false epilepsy. if chlo give of wrong epil of a paroxysm can be devel. But can be given with safety. But in many it is serviceable. places brain in better position. Todd even recommended it in Epilepsy In Hyster. it bring on a paroxysm. not of consequence. & by contin symph allayed. Though that slow disease

of brain a contraindication. Brain gets pale, as shown in case of removal of calvar. & no injury followed.

Administration. Lint fold. make a pledgeth salin one side cover with oil silk other over the mouth & no air allowed at all. In most satisfa. this object. but sh not be pure. safer if diluted. If concentrated toxication comes on. Is safe when diluted with air again of vapour. over mouth & air pass. cause spasm of muscle of fauces. closure of rima ensues & suff may come on. But if 5% of ch vapor go with immunity, & goes on well. Another is direct effe on skin of mouth & cheeks vesicle. somet. scores. Towel press slanted & in form of a funnel one large other small. On inside 3ss. or 3 at first. Confine to one who has nothing else to do. & knows the symptoms do it quietly. prevents proper. mild effect. Do other little disturbance. & light. Some have great dread of the operation. speak calmly. & tell all will be for the best. Not any sold food before gen. if much food before. will vomit then. Kid a care. wh while ch adm. apply. & on opening mouth. neat. got out of throat. & was cause of the vomiting. Strong medic. as bad. Get insensi in four minutes. never bring out it before that time. vapor its dense so bring obliquely at first. When insensible. ascert. air rare lid & of eyeball turned up & pupil little cont. & no motion it touch. the conjunct by fallacy is by clerical female wh slant it. 2 Limbs. from it & it pulls. this marks. the time. Short operat this will do as long continue the gen. Danger. signs are 1st circulat. of face pale & blanch or of bleed stops pulse imperful. or extinct. no further adm. will die of syncop. 2 Breathing. if quiet. all well but if. hold to

stable deep draught took out. Stertorous resp. sign of [illegible]
any stridor about it. 3 Muscular. condition. Somet.
cont of spasmod. Kind comes on. & has happened in old
stiffened & falls back dead. In some tetanic symptoms
retin & relaxation. the are harmless. Face hard & dark
alae nasi dilated. veins overcharged. Chance as well
due of more given. Accident. numerous. Somet. pat. emotion
in 36 out of 40 deaths preceded by this state. Occasion
weakness. debil. [illegible] soft. breath. challon. pulse
weak. may be due to diet ailment &c. in irritating sores, gangrene
vomiting troublesome due to diet. Ch has tend. to emeris but en
tires thick after sleep. Inverted pylorus takes place. Occas
by sler or Epilep. & in some cases. Time & Hyslenical.
Death after Chl not all fatal cases due to vapour. other causes.
Is it for chlo. of it be. must follow order of toxication as in animal
as recent. Other ated in turn 1st cerebell. 2 cerebrum 3 spinal
system 4 medulla 1st exhalation. 2 Gaseous 3 stoppage respir
ment continues. Rule where breathing stops first due to chloro. the
pulse first due to shock at first accepted. not trustworthy
depends on degree of intensity of vapour when concent it is reversed. but
when diluted & then as rule respirat ceases first. Next in
pat. Ch alter 1st intoxicat. & if death without any such cause
ld not be for chloroform. Sideration is where no cerebral aff occurs
Cases of poison remarkable. In some small dose 30 m
rapidity of event life in 1' from time. another death
follow after most trivial operations. When most important
cause. Resp in view & all done. death has ensued. How does
it destroy life. 1st syncopy. is peculiar. differs. heart two
opposites one soft. walls flaccid little vo. hen shock has
been communicated to gangl. second. hard. dense. contracted
Kiers intact aff but some cases. 2nd Asphyxia

vendor in red ☉ ch. for them getting oxygen. Expen. Ch add to ☉ & Exp. gel less ox than if pure. Vapor. may prevent absorpt of other pulmon membr. charge-grad. Inter. will make ter. functions. When on ☉ directly. it gel dark corpus. wore. concav. & colony matter crystalizes as trihedral & charact. Use. relieve pain stop hem. & orthage, bleeds are amount of mortality after oper. Sorrow says rate of mort is incre after hernia & lithotomy In Medicin. to relief of spasm in epilepsy in D.T. but do not give in hystria & in neuralgia Surger, used also in dislocation taxis in hernia. paraph & animal. structure of small of spasmol. In ~~form~~ Midwifery. not bad in uterus. may suspend but recur with rigor. rather lead over flow of ☉ but doubtful. Prep. Sp. Chlor. of ℥i. 19 oz of RS 2 gr/72 stand till mixture clear transp & mixt with H_2O. & thus admit over free chloroform. Is lighter 0.87. again readily ignites & rapid of combus. Dos XXy – XL. usually p. Tumenculum. Ch. eqn pt of Tr. camph & Chlorofor. the use as ends. In neuralgia. Wholly auger / Tinctaeon Tinct Chlor Co. ℥X Tinct Card Co ℥VIII of RSp. ℥ii of Chlor. redd. agre aromat. XX – ℥. very eligible

Æther

Somet. Sulphur æther. RS ℥L. and sup ℥X. Ca Cl also another. called Pure æther. read agel prod. of pure de with Ca Cl & then distil. more rectified than other H_2SO_4 takes H_2O for the C_2H_6O. It is the oxide of Ethyl. They is not quite true. said before dehyd. new sulp sulphu-vinic acid. & a bitumen of oxide of ethyl. Then distil & destroy the salt. Character clear. transpa. limpid. refractive grav. 0.735. some lighter 0.710. freez 46°. boils at 96°. Volatile dissipate out readily. Cold. on skin. as evaporat rapidly

burn yellowish flame. = carbonic acid gas H_2O, bad cond of Q. 9 vol
mixed in 1 of H_2O. decomposes rapidly abstract O from air.
Can form explosive mixture with N. Pt foil vapor combusts
= acetic formic & lactic. Solvent. improve salines. takes. Pr ch
of H_2N for H_2O. Takes up much Br. dissol organic matter
urea ozm. acts on gums resin &c. Takes up alkaloidal &
neutral agents. Occas adulterated. R Ep. albumen pen
alb does not coagul R Ep does. H_2O. it usually for washing
when high spe gravity - of much H_2O would not dissolve in ~~H_2O~~
50 of Alb sam of H_2O. aplit. sol. alb redu in but R 5
mean. absol of 10%. Actions. sm. d. acts on part passed
over. On tongue fauces. cold sensation. impleas flavor. Is diff
usible stimulant. rouses the heart. Like other temp increases
soon dep. acts on gastric m ment. Incr to by deriv
angm action. On intestines is carmint. flatus expelled
& anodyne & antispasmodic. Controls muscular action
Brain as narcot. hypnot & sopor. diminish sensorial
power. Poisoning is rare. cannot take much at time
does not mix with H_2O much. Tongue can take in large doses
In over doses. intoxication. S ether. Used in S. asthma in pure
case. Cardiac asthma. Catarrh. Useful in Pertussis & Lay
rigor stupor. C Turbulent. In cramp of stom. retrocedent gout
Enteralgia. Painters colic. In biliary calculi passing. C Olea
Terebinth. through specific. In antispasmodic relaxant
S ether. is useful in head cases. headache. C anaemia
hysteria. Occ topically. refrigs. Erysipel. bruises. keeps down
inflam. once. in irredu hernia. favoured reduction in it. In
hydrocele. incipient cases. Otalgia good. dropped in meatus
Inhalation. like C chloroform. Comparison of them
That No deaths from Alb. is erroneous. numbers. 17 of Flourens. No
anesthetic is perfectly safe. all risky. prevent arterial

of 60. Alk not so energetic. need larger dose. In some 0 p – 70 when 31 – 3iii of Ch. Not easily of administ. Instrument is used. Moon like local irritat. lips blue coughing face purgatory gen. irritation. Pass away soon. not noticed in chloroform. Not so rapid as chloroform after Ether 20 – 36. Safer than Ch as more stimulat & excitant. Ch is sedative. Rule give glass of brandy. Another safer because not cumulative. Aft ch rows uncon deepens but 20 seconds. Never in Ether. Not such sedative as Chl. If 1/4 gtt of Ch on heart of pig pits suppressed, Ether not so. In ancestl 2 thing brain 2nd or 3rd operation. Ch produces on brain but inverse with Ether. Moon sensory nerves. Lead dr in Ether plug not common. As ancestl in same cases

~~Ore~~

Narcotics

Caused loss of pensoid power. 1st stimulate & excitant but is short soon. Opposite depress, cause redn in circul. Aft depression cause sleep = hypnotics, some control spars. Pure brain quality calmative

Chloral

Of 2 of C with one of H C little Ch. Form supp salt K Hp with Ch gas. set aside 2 H_2SO_4 is then distil when chloral comes over. Solute. Liquid & Solid. Liquid clear limpid oily sedn in tiers form. It is anhyd. but will comp for hydrat of chloral. Ch hyd in fragment. irregular. Fresh a crystalline needles. salt is efflorescent change gel white opaque white dust. Odour. like melons. Taste distinct. like bitter orag. Dirigs flavour. Sp 5. 1.5 – 02. Boil at 201°. Dissol in H_2O = transp sclear. On keeping of alkal change = milky & opalesc. Changed into formic acid & chl. with K or

Suicidal Monomania

self pr is powerful yet is overcome & self murder is perp. Insanity
is apt on mental derangement. Verdict mercifully wrong
in "temporary insanity". No doubt that all cases not
have the cure. Life is not with all so dear that it will not be
sacrifice. Dices of some come is common cause. Is an error
of judgment in this. not mental unmindness. it is seem
more noble to life than to die. Sometimes slight cause
Mental distress must be great. Bear in mind cases are
few in which safe to affirm that it was disease & pathology
Dar impels seem insane with melancholic or other as
consequence. of any form of insan. Indicat.. may have died of it
in some mode. & put himself to death in any other way
Very than 2 himself suff with some mental & with other
himself from it. Those who think themselves dead. after
some time awake and are disgusted & try to do for themselves
In insanity victim will dest in some parts man
being drown or stab & will not seek death in any other
mode. it is safe when method is small. Starvation
often selected from choice. or may be victim of a delusion
May be overcome but if from delusion it is impossible. Medy
of aerophag tube is resorted to. When need these measures
pate struggles violently & is dangerous as prevalent
follows. & is considerable. He will while food pass will
eject it by vomiting. Though feed system yet does not imp
w. gets emaciated and gets weak & weaker &
Rhumeans. enemata used & are ejected with force. Soon
near to plug rectum. Emaciated gets extreme & at end offered
days work emaciated & fed by artifice means yet grind
weaker & emaciated

Na C, as formed. Used as hypnotic. Said to be safer. when with compound
ordinary nacot. not hurt stomach. digest goes on. Anoth. not
Hook up secretor. not mouth dry. or stomach. Open well ditto.
Not weakness or exhaustion. most other cause wear stem
go on more = debility. Ch. format. processes are stimulated
= vigor. Not tend to depress. Keeps up the tone. Not any derrar
of innervat. only 10% headache seldom giddin. other cause
languor. Its range is wide. Many head cases & congestion
with uraem. may be given. In chest diseases, obst. oo
may be given. Op = danger. It is more sure than most
field not stimulated, may when stomach heart or of dyspn
Wh fever. or normal. when organic derrang as functional.
When in sleep wanted give Chloral. Sure than other not
disappoint. To get most good give at bed time, bad in day
too apt done. leave alone keep quiet. Habit may contain
stimulant occasion defeats its effect. Next. more quick
than other. Often in, as mil ℈ in 10' or 20'. Ordin ℈ ℈ ii
Largest dose 120 gr in 24 hrs. In tetan 180 grs in same time
Single dose larg ℈ iv. Sleep is sound. natural intensifi
perfects contracted. Somet. anables. last at least 5 hrs. Acts
on temp reduc. 1/2 degr. delay heat of Typhoid fever. but no regul
acty. In fr decr in 7 angin in 2 no deviation. Rythm of pulse
irregular. In Phthisis. Pulmonary rate disturbed. Keep angin
in proport to pulse. Chloral prod. abroad with oo decomp
in it & wit Chloroform & odor in breath. not the case no odour
this thrown doubt. with alkal decomp. it chloroform
vital force contrib. chemical action. Not with Phosp of soda = oo
Supp. dimin formic acid & Chl. then decomp. Ch. gr. off chlorin
and with Na = NaCl. thro Reding. In urine. prod. formea
le = NaCl in excess. Chl. & Chloral compared. not care
doubt of anesthesia at all save secondary effect. Where

loses its grasp. Unable to see relate of one idea to another
cannot sustain mental efforts. Brain acuit to ask if
there is incapable of exertion without it. One result is
disease. Mania - a poter. under D 7's of some comm.
he is irresponsible. Hutchison put obse of mental unso
of this kind. 3 forms Acute. Periodic & Chronic
Acute is rare. seen to follow haemorrhage from any cause
after excess venereus, & dyspepsia after any drain on
the system. Periodic is often in person who have injured
heads. In females as accomp condit of irritation
of uterus & appendages. Often in com with pregnant state
In calamenial period if have pain with them. In men
in the who brains overworked. Public speakers often give
out caloric more so than any other & hence stimulant
often hereditary & aire is lessened. In this somete abst-
ain for weeks and months. Horror at them & increase
for stimulant. no want felt & looks on himself as
cured. Soon bitters & depressed get despondent & then get
drunk. & again drinks after sleep to steady his nerves "Hung
rivers of the brain". In Per. drunk - followed by remorse, chance
and evolution for having yielded. regains his vigour &
determined never to give way. Sooner or later it returns. This is
an unhappy and dangerous condit. get maniacal or unbe
cile. or get chronic. ~~The chronic~~ Chronic causes are
very or of heat - dis of heat. hered predisposi. & the yielding
to it. Is difficult to manage & is incurable. Constantly
under the dem of stimulants. In morning is more
tremulous. In this state are incap fairly mental
is body & till get their drachm. & a few hours pass
without it the comes on again. Cannot last. soon disease
comes in. Contemplate that it might be our own
case Chronic ~~disease~~ There given the inebriate as

produce anesthesia under nerves. Valable produces hypersth
again & all refl. nerves act. Chlorf. suspends. If pale wh take
Chlorf. Sleep lengthened. 29/2/72
Headache most in those who don't get all the sleep. In some
nausea & sickness. Adulterated. Alcoh & aldehyde. Alcoh
from use of on K, rectifying the product = an alcohol of chloral. diff in strength
7% weaker. Give in inc. quantity. Aldehyde for alcoh and
gy fermentation = acetic acid. Uses as anodyne. In act. Rhem
not permanent effect. It alternates but is short. Sleeps 8 10 hrs &
on waking is as acute as ever. Shows in disorder of plom & art. dynia & cramp
relieves it. Topical eff. on M. surface. In hysteria neuralgia
used in Epilep. is valuable in functional it stares off the
paroxysm. Where stomach change no permanent result. Puer
peral epilep. In sanity & delirium D.T.s. stimulation is benefic
of the other Op. Hy & morph fail, can give large in D.T.s used
in Chorea & is palliative. In fever occas. & husbands the
strength. In surgical accidents = sleeps. Dose ℈ ß ℈ II
Use in solution. taste is bad conjoin C. as dis in Mirch
acas. & add T in Cond Co. T incl. Tolu is good

Opium

Mecomon emeros in classical literature. Opium (juice ork)
Hippocrates knew two species of poppy. white on plains Olk on hills
also flows & tints of seeds. line of talk like fow. Olk mon as tri gnot
Nepenthes may have been opium.
Cultiv in East also valu in Africa. Poppy in Engl & Germany
Hindoos. discovered the medicine.
Poppy. = Papaveraceae. attains 3-4 feet & dirty flower
wh 3-4 inches across. Petals varied in colour & can be altered
to any. Native ee the pale white or smoky & at base a triang
ula spot. deep violet & in white contrast with sur bro

of Incul for 15-20 yrs. who short dis with in will anxiety
dep opposit headache & excitement cries and babbles sings
or behave odly little drinkard. If incul long per aware of his
state, odd notions & he may be aware of it. Affable & conver-
ness. Assurance of dish & annoy them, occup is seduction; pervers
he lives to be calm and cold. Then health gives way appeti
capin dyspepsia & constipat. Change. Latter place habits
& affects which chan of the man is altered. Apetite for bars
is lost, he becomes complete changed in all things. May
be thought fever, all guests irritate him, & till at length
he breaks out into ~~in control~~ mania. Mental sympt
clos. fruit fault in his delu. he uses vodin language & com
all ackany one, or infl inj on himself. Many destroy themse-
lves. Sy flu fac wild eye. Giddiness. Noisy in ears
restless & insomnia; senses dull not appear truffer
(ex bro of heat or cold, or well of food &c. Muscar force mordi
ate in some cases

23/2/72

Dypsomania

For liquor called. In somely indulgence of the passion
for spirits. It grows till incapable resisting. Too often
he is shunned &c then pey and themselves. It becomes out
of the power to resist. He is not sane. Must not shun. Tem-
perance society no good for one saved, or perish. Maine
liquor laws. Now fact that inebriate asylums. Success
is variable but do good. In U.S. five institut. results
are encouraging. Effor moral & intellect. Sy In some unimpair
Some who forgeen drunk. yet brilliant exertions. An habit
also to avoid duties & perform them well. Still are except
as rule morally & intellect depraved. he get hard moron
unreliable & all finer qualities of our nature become changed
Un Intellect marked. Ideas not flow as well

Capsule poppy head. integument. Vary in size, hens egg to fist
& 2-4 inches across flattened at end upper a crown & under apex
turns open through seeds escapes. One cavity only & contains 3000 seeds
small brown blk. & 4 pr. rosed fixed oil. Oil of Ben. There
not cool active principle & used as food in Persia.
Opium concentrated juice of unripe caps. each but small quantity
a few grains & even somewhat less than a gran. Plant 60 thick
in an acre get 60 lbs. same capsule never twice. Get. various
methods. common. Knife a knuckles. many blades & only unripe
capsule wounded. Cuts transverse & horizontally & intersect &
incision should be superficial. flows limped while juice do
in the every & wait in many changes to brownish thick and
concrete. Next scrape off trowel. concave & unusing epidermis
detached with it. fill & in a sauce. Of small amount. fresh
incision may be made. Remove to dwelling & then sauce placed
to get cools by planting position. Expose to air care not to
let sunlight. Undeached. After hard seal to Bagnar for inspection
of good it is purchased if bad confiscated. Afterwards
is adulterated & form it. Often worked up with liquid & is
smooth & homogeneous. When granular or lumpy & deep below
cools & crumbs. Saliva is used. in Asia & Bugh. for
adult. Varieties. Constantinople. in Turkey
met of 2 varet. super
inferior. Superior Rort in masses 4-8 oz rounded flattened
sun rounded by poppy leaf. Internally semi-solid pale hair from color
hardens & air. is bitter sodour is character. Is free from adultera
Inferior. put up like superior in size outside mixture of poppy &
dock. Internal darker brown coarser & indurated by on
exposure. Not as energetic. Another kind. Name must
dealer. Viz Smyrna. so Turkey includes there 3 varied alloy
in balls polyhedral dice to soft matter & balls no common

tency of brain is Senile dementia. In exc. mental exert. intem
act mental and bodily will sometimes be attacked
Aldy perm. ult. be such apoplexy get dementia. Observed by
Van de Kopp that brain in these of aged is deficient in 3 const
Ph. fat and alb. General Paralysis or Paresis is
distinct thrp. cons. deliver. beh. in unbound to alb. & pro
small tem. fy progn. decay. Eng. sym. neglect of dny. nutr.
or wander. inde. & p. chang. of opinions & feeling. H. rare in wom
& met in adults. Causes. intemp. sexual excess and sum
in mental labour & hered. tend. Mental def. & fort
from bodily weak. Trunk of sp. cord impaired. & extends to
brain. Lips. tr. & tremor. pupil unequal. coord. pow
stort. Sphincter cease to act. & in some act of swallow or
impaired. Epil. some exalment. & no cause. gradu
sites dec. slought bedsore, or tubes. rapid emacia

Mania

a lay term. outb. of fry., deprivat. of the little thr. of patterling
all abs. mental. many be orig. in all or def. & of mind
slow of brain. any change in its physiology condition. Ther.
perman. Dorsal conf. accentuate. H. is a prob. depart. f
lab. of feeling. mode of thinking usual to the indiv. it could be
ecl. be cond. comes. Chg. in dia. without cause is certain
order of disease. A morose or sing. chang. tone of sensit. or reven
or of person. not p. steady & upright & chang. get dissipated & unsu
impr. disc. of mind. A morbid aff. of organic matter. orig. dep.
in sent. regulation. It follows same cause as other disease
mental dormant for mind & occ. breaks fith. with volun
ing to warded off. May go to serious cerebral disturbance or sean
cd. aff. health. Divs. 3 classes. I General. II Sexual III
Mn. I Gen. int. sel. & ob. sem. & spasm. aff. aff. all mind
lessened raving incoherence. like for M. ann. unless

cone. say in weight 6 lb — IIIlb. no poppy leaf but with dock not thick. Opium is fine. one of best. soft. ductile tenacious. Sheldon unsignaled, light brown colour. retain is spurious not mould. inside lighter in colour. Exposed to a pan bath loses weight 1/6. Egyptian

4th in order. met in flat cakes circular cellum. brick red in tint & is hard. disintegrated rea dy as adulterated & fracture is angular & poppy seeds in it & fragments of the leaves. Sam tests Smyrn. loose 1/10 of weight odour not so strickly taste not so bitter. along poppy leaves

Persian

is poor. comes in sticks no other like it. thick as little fing 5—6 inches in length. white paper outside opium is lighter brown colour than other. soft. mixed with oil never hardens even if evaporated. also is granular. Taste bitter disagreeable. Indian

varieties. Patna. is good or bad. best garden. patna — best Smyrna. & yields all as syn cakes no irregular borders 4 inches in length & beat 1/2 in thickness. cove outside with mica & in boxes lined with beeswax. Opium hard & dry perform admixture, blended bitter. Inferior Patna. not like it at all. metal balls. like nerf shot weight IIIlb lbs. 1/2 lb of the capsules. Outside. cover of tobacco leaves some poppy plant. found soft pitchy. can be laddle out danger odour. Reg taste. Next

Naves. like inf Patna

Malva. Sup & Inf. Super. always in cakes. ℥x. outside with poppy compont. petal leaves stems ee. Inside is lighter color. strong odour & is brownish black. No covering whatever outside mould. European.

Eng Gum & Fun

Still he is responsible for crimes. Only insane who & ch. [illegible] from punishm. Law 2 degr. Minor in whom incapa. of perf. civil ac. but held for all crim. ac. & Proper in [illegible] for crim. responsibility. In civil contract incomp. for any circumstance. Civil deeds of lunatic are void thro' not the result of insanity. but

Dementia

loss of mental power. mental decay, dist. from imbecil. appearing same in destit. of powers. Dem. incl. all forms of acq. with. never till after puberty & increas. slowly. Say symp. mess of memory. rep. & every day occurrence. circumstan. are forgotten, cannot recognize objects. Heat dist. it from idiotic is congenit. & incumbent from infancy. Dem. in a fully develop. mind slow or sudden. this is frequent for mania, d. It is loss of mental faculty. Dem. incoherence all power of attention even if dist. to him, language incoherent. Loss of know. when he is or who he is. As advance, all remembr. of rea. relat. is lost. Muscular power intact as rule. [illegible] debilitat. is lottery & crouching & beat. In some spend time restless by running or jumping. Some quiet others noisy unintelligible [illegible] as rule are docile. App. not along same skin of eyes sunk [illegible] pup. dil. cheeks hollow, all fac. expressionless. In other instances not well marked. On asking question the vacant look or idiotic laugh will betray the condition. In all appetite is augmented. health [illegible] arms regain & their plumps. In man note that relin. to health is also bad sign as indicat. approach of dement. A compl. is paralysis or Paresis. Myb. acute from ch. or secon. Simple or Comp. Acute is rar. sequ. Errors in diet. follow fevers. Is rapid. in its course, amenable to treatment. & is well lev. in dem. Some from shock, mind arrested & fixed for life. Chronic dementia or sen. traced to some antecedent as prolong. grief. often preceded by apoplex. epilepsy. foll. acute man. & melancholic is settle and incurable. Ch. dem. is gradual & found into will [illegible]

but urgs. Engl. is little hepat aloes, dull surface & gloss in fract. part. French imitate the Egypt. bk red, all these chr. uncommon has reddish brown colour & gets redder in air. Odor is sui generis taste bitter & aromatic & acid flavour. On exposed lose weight 6-17% of volume as aqueous vapor. Combustible burn readily. Residue is scanty & is saline, on dissolving powder = favourably at first gets red & brown in the air.

Analysis

Value dep on alkaloid. Adulterated. owing to the demand. Sometimes can be seen as stone clay, poppy plant, charcoal or soot. cons. during. Most diff. to dete. is extract of poppy plant. This plus cha. of opium & if diff. is good unpr. Suspicion is dete. amount of alkaloid. No standard. of per blk & hard.

Composition

Codeia = Co $C_{36}H_{21}N_1O_6 + 2H_2O$. Made from mother liquor of morphine by adding NH_3 = sub. of sulphate Mo then supernatant with KHO. = pp. wh. = Co. Used as hydrochlorate by add. HCl. Solid. occur in acid & or rhombic prism. large & bulky clear transparent & hard. Keep well. Chara. of alkaloidal amount not large 1/2-1% Co bitter devoid of odor. soluble in KSp & S Alk. also in acid solut. R depr. Long mark of Mo dest. Fe M Tricht = blue with Mo.

Plate used. as sedative anodyne calmed & hypnotic & in headache & new depressions said so very in 1/6-gr. on but in these disapp. Not so strong as thought & grafted 1/2-1: doubtful of any special occurrence. Co used with Mo & as "Gregory's salt". Crylopia

1867. got 5 spritus nailings after Mo treat with KSy add Ca Cry 1 falls down. filter & wash. dis. in acid & recovered in unstable state & yet pr. Solid. & amorphous. lines yellowish

& = delus. If moral is derranged. & an impulse
which is unusual. To constitute a dire condit of mind. Till morbid
action it is not insanity. 3 terms Illus Halla
& delusion. = the phenomena of insanity are the signs not
the Id. Id is a false impressional sensation. an error of the
senses. Hall is bareless conat of the mind pere
cp. of signs of an idea. Delusion is an illusion or Hal. mis
leading the judgment.
Two states. Demonstr. b idiocy and D. adventitia
general insanity. = lunacy. Law unless adv. 3 forms
Idr Lun & unsoun non compos ment. Cokes for
der. Idr for birth. 2 He that sickness loss his mean
or under. 3 Lunat some h. hall some hall not
non compos which he be not. 4 He that even act dep
himself of his mental qualities. as in drunkenness
It is defective. An Idr in his is one who cannot tell who
is father or mother. or can count 20 pence. If can read
Cattle is not an idiot. May of idiot can never instead
Lunacy in use. all dis. states of mind. = mania & dem
It is acquired may be permanent & has lucid interval
Commons of Lunacy to see if Idiot or Lunatic. Soon found
that may who take under mental. & then unsound mind
all of wrestle Idiot or Lunatic. It is not the id. Lung is
unbelt but not clear. Involves idea of mistd state of intellect
& incompet to many affair all idiot lunatic. an incompe in civil
an but in criminal cases only the idiot for birth is free for resp
ousibility. Lunatic held respon for all criminal act & an affair a fil
of insanity. Hale sy a partial & a total ins forms respect of things
or in degrees & the condit of many melancholic persons. It does
not excuse them. Diff. to define perfect & partial insanity
This has formed basis of judgment & this is brought against
Gibbs says same doc. Man deriv in mind. & cannot judge

at 400° melts & after that remains as removed product. In radii 2 ozs in tufts. Remarkable. In full lactose pecular cooling like ol pp. Combines with acids in salts never solid. This is same as Anyser. Though to be copiva at first but KSO_4 on it turn deep blue. Next often made purple. Is effer narcotic

Morphia

Morphen "gold of sleep". Comp as far as middle of 17 cent but only. Elem $C_{35}H_{20}O_6N$ Gold cang. Take solution of hydrochlorate of morph add NH_3 & pp & collect. Any other salt of Mo will do. When this seperated is solid & get in crystal right thin. Often as powder fine soft & dull white. If crystal is semi transparent & heat loses bright = yellow liquid. & slang as mine. Better take no odour insol in Ko.

Insanity

none in healthier. Incorrigeed only. impossible. In some often till at length mind unsealed. In state of intoxical of emotion for various causes. Savage & civilized lives so different. Still the prevail of mental. still but little attention is given to it in ordinary course. Insan wh substantiated annals agreed. deeds testimony. Often drift & arm state of such this to further justice. In comm cases plea of insan adva against bust or & ecclesia. & med jurist must investigate Certify for two med men needed to condemn a maria insane. Again about the mind of individual. De lunacy. Satisfy your mind of look at Report of inspect of asy 3000 in L Canada. State of mind always important lack often difficult. If some known standard of mind you could gauge the mind diseased. Whether all origin equal still diversity is the rule. & wide diff in mental calibre & tendency. influence. mental & moral training give stamp to character. Some have strong peculiarity = eccentricity. Very sy some pt of diff is undue. Reason put so forth sensitive & passion in background. Is diff to define mus se. Com put departure without & ter[illegible] cause for state of feelings & mind of the indiv who is in heat the Connolly still an help of one or more faculty of the mind. Derrain of mental faculties wh deep of cap of acting freely. May be acute disorder & can be benefited. Those in wh intell fact or cum propr have free act deeply by disease. Is disease of bis affec one or more of mental fat. see or is natural. May be congenital. powers never completed. Sometimes gover passion & lastly disease of one or more faculty of the intellect ~~may be~~ diff to the control of the will. All impe mental cds result for this cause. An incapacity of judging at all in matters of conduct or every matter. or disease of perception

Fail of them float no proof of life. or vice versa. Floaty poor
lly breath or was inflated. Infer rather other evidence
all regs is proof of life. adm of mother that Rid bornatic
would be sufficient in court. A single cry has been heard
may be heard before birth. Obj to Hydr test a lung sink
for disease. Rids who have lived for month may sink
but not normal & exam show the cause. infla action
Also in this unable to inflate the air cells. Another a
health perfect but see it is feetal in this lung can
be inflated. Recur that life for days with this st-
ate. breathing & walls expand. & found after death
Found baff while sometimes part & atelectasis
Gardner think it second lever & a catarrh of tube. Pul
m ory collapse. met to bar. Only difficult for inflat
& keeper no test for this but attention to the sign
will tell. Lungs of inflated by mouth. doubt blow too
much. If air in stomach suspect artif respiration & is
a good proof. Cannot expand all lung time artificially
and might produce Emphysema. Urged. prize ender
to prize life of offspr & failed. to render it likely. must have
& but in other ways the desire of saving her offspring. Jfy
& air of lungs. Concluded keeper inflat & that book shows
marks of vole & man in stomach. no other alter but that
had breathed & still resort to further inquiry. May while
still in womb but are rare 1 in 280 & keeper is hinted
& can tell of face & get lineface of features

not conclusive. Taylor & Guy say cannot distinguish. relo
air cells from best proof of air in lung. but whether
to keep or inflat cannot decide. air cell found in
all cases when air has enter. If comple expit thorax
as in adult. Keep not a sudden act & gradual in kids
slow in development & in some never thoroughly completed
of under lung tissue. In infant lung impe devep
by keeps & here import of this sign is read demon
is allow by other changes. mor ♂ in part. capill. tingu
and full & weight is increased & volume. Stated that
lungs of mature kids weight each ℥ i & after that ℥ ii. from
400. in ~~keep~~ obser before 874 grs each. after keep 1072 grs aft
one month. Another table instill born weigh 874. In imp
resp 988. weight at birth 874. 1 hour 918. 12 hrs. = 953
1 day 1000. ~~Ave~~. Conclude that this test is unsat.
Increased volume before resp. hardly visible. are close to spine
when was taken place. Weight of lung to the body has been
put forward as a test but is worthless. Sp gr more before
than after respiration. Conculus, air kid may be born
at & be dead bef br. 2 mark of death in utero
for kid died in ut. 3 no certa sign wh dead kid
ut breath has been born at. 4 lake. sp. vol. weigh of lu
& for ester. 5 lungs more in weigh in proport to devel
6. Hydrostatic test. Now lungs & heart. place
on water if sink, see if slow or gradual by weight of
heart & lung at surface. or if one lung is more bouyant
then sepe right for left & do same. If goes down rapidly
ex air & cut in pen & drop in each & so see & if get
piece more bouyant examine for air cells. Organ
may float. see if above or below the level. under amount
of development. after tested each piece then press betw
finger & thumb & see if air is in it & it is due to decomp

of cumbit could avert fatal issue. Trail of spine or in
gas that in lodge it of bullets. death is attributed to the fir
mer of that there either app & guilt is mid yet lapse of the
taken out 1 yr & one dy & then die or me cear to be mistake
complete foll a extra circumstance — Klaus D.A. Pyaem. Phlebo
24/1/72

Infanticide

Lungs. dark spots melan. If of respir alles this &
is variable. air will devel some air cells. & is good word
of entrance of air. right more pry than the left & the upper
lobe & look lower pt. air cell char. color of lung changed
for dense & like liver. it is right vermillion colour
If seven days after death. it may fade & of survive
lungs like healthy lung. form & arr of cells. angular
not raised air in the tissue & grouped in irreg masses
Air like globules like millet seeds. on sub of lung
only then the compr spot of blood & air bubb for decomp
it is round & blk abs of tissue of lungs. blood spots like
it in other pt. If air & gas found air is in areolar
tissue between the lobes or beneath the serous covering
If for decomp out coales & form blt of air. Some describ
air emphys of fetal lung. it is due to decompos of lake
of the circumstances into consideration will see this. air cell
is characteristic & proof of respiral or artif inflation. Guy
this it of more imp than hydrostatic test & says it
can be detected at a glance, & may succeed when other
fail. Rib keep & inflat not distinguishing marks. if poss
ble. Exam would be impt. In most, in air keep
a mm in jet of cap of air cells. In artif infl it was
absent. against this when circul is active the respir
it not going on yet if ~~cap~~ air cells will be injected

tests. Rec. [illegible] cett. gelatinal & cold H_2O old ones slowly
warm water or hot. you destroy the only chance you have. Use
cold alone never hot. In using the H_2O put on the stretch
& scratch the fabric with knife and get in in this way
& of. Dr. Lee's test is appl. cold iron. on floor or fine mortar & cut
out. of on metal film is fine separ. of heating the metal
only heat a little. Use of spectroscope will not describe two
band seen in green portion of spectrum. you can find in
Mic. char. of blood interesting. Disc circular. in man & in
other thing circular forms are met. Blood cor. cr. dark
shaded and like a biconcave in rolean x. some lie rolled
edge & in gut. vary in diff. animal. it needs an eye of an expert
to determine betw. human and blood of animal. Several
quest. with wounds will ch. Was it cause of death
a man in health more an injury which is fatal
In such no question as to nature & effect of injury but
when an interval elapse, disease may come in & neglect be
the cause of unskill treatm. In det. ca. speed
fatal. & terminal cir. abnormal formation. an ear
fatal. is in ignor. of nature. Law of mal. intent is pr.
of dr. int. & culpable the man. Neglect to seek surgical aid
a fatal wound is urged in favour of prisoner, as may
be result of the neglect. unskillful treatment urged in
extenuation. Is wound dangerous to life? if so he
shield in hubo. till it is deter. of blood bear or wind
he is in danger. less in cases where extens. & do not wh. injury
put. in certain dis. from fatal when as most extens. in
recovered from. As rule when any cavities injured, brain
or chest or abdom. or joint. of ark of dangerous say it is
Last question is up with pen. aft. inf. dis. can hold
responsible. nece. to dis. at the time. cause ing. att.
death to injury. & not of injury. may be such the inj.

weapon found in hand. It is instantaneous. Pistol depends on rapid of death, if not speedy, if falls over on back. If not rapid face down. Pistols or gun body will fall lower projectile of life prolong, fall on face down, & roll over on back. When the sudd & to open. A weapon in hand of victim by the murder & an wound & direct as site will point to first of purpose of self inflt. This also head & neck or and part of trunk. Throat & chest are part selected. Policy if in site or discovered be self inflicted. If dis is such as could not have been self inflt. Red for wound, contrasted rarely self inflicted. Ring in detrim... Wound seeks speedy and painless death. Sometimes jumping for wound

"Missed lecture on Pur chest wounds"

Blood Stains

How distinguish them? Comm. that blood stain can't detect or shown solid in H2O. blood on Rinfer. Is any means to distinguish blood indep of blood or any suff delicate & that minute particle arrests a single blood corpuscle will give the absorption bands. The two black bands decla found by many, but contr going on as to reality of the test and many investigated the subject. Mic. wrote will tell of fresh specim. of dry specim it is difficult. must swell it out & in it eyes altered. Tests not numerous is mixed with H_2O and on boiling it turns colour. Next has no other with NH_3 or change in colour. R permanganate & NH_3 get bluish. Wide color of plants catchmyed by given by NH_3 Witt Twel Pallae a reddish precipitate is thrown down with blood. Days test most delicate. Put smallest quantity. It is to sol add Tin Guaiac and if this add ozonic ether mixed effect lakesphere & deep saphir blue colour is shown. Rec on dry of count colour. feel like glue & by chem & in ex air. at first not red of arterial the redd brown & this is persistent for years. 25 yr old recognized by spectrum and

as the mucous membrane never formed again again. Sometimes
cases can be cured, age, health. Generally speaking
the constitution bone. If spinal column is attended. Near flexures
place in splint & remedies. Surgeons subject more rapid
cures than persons. Blood in children appears to circulate
healthier pure & foliated, when tendons & ligaments dull
strength. If symptoms, pain that person must be taken about
5 or 6 hours. Old men speedy, while. Cure note that they recovery
at about or under 24-36 hours. Must a gum cushion pillow
[illegible] 5-6 lbs. Bottle of cabbage & appearance & hand spreads
Dark spot may exist & pendulum is extreme weak by all
other means, have already taken & cured & complete Consumptive
for years, Blk spot may stay for years, Sometimes
out is. Has not spread across or a bruise?
Accidents, comminuted, accidental spots, accidental
on character. But inflammation & pain. Hemorrhage accidental
remain unnoticed & cured of design appearance & doubtful
point of accident in danger, etc, etc, This certainly
proved of unless habit to accompany & remedies where cured proved
accidental by an old affect. Before they often must
be held and milk old inflicted & child & animal will
have to be methought. Of actual blood & wound, natural & clear
as of them. Of what blood, inspect, affected as to death
by iron milk wounds fatal & dangerous. Cancer true. Could
you accept tape & ointment proud. man & wounds &
& hammer. Book with & well pulse accident & surface of
pressure & & & wounded not & could not have been of his
& wound with & can death &c. Hand burned & bodies surface
& blood washed & removed & & & flow. All superficial
part & blood & pain & clot & nation & pain & & pulse & wound
& & & & heart. & & & fall pain hand & & & pressure
& wound & & &

If some time has elapsed contrary is needed... Wound compositt
supp. weapon gen. clue one form. in wh. perp. attack to falls in
glu. is in wound of pudenda of female... they are insgular
and some of the pairs in the tissues. impossible to occur without some part
is being imbedded in the tissues. My hart slate length time wh.
it would heal. & time since it appl. must know circumst. at diffic.
ten. by t. nature spec. Incised. united in short time & not supp.
ure. To secure edg. must be brought together. by seing. & under moderate
sen. repeat & often remain in form of thin varnish. When edges they be
come incorporated. nuclei & cells develop themselves. & continuo-
ly is restored. Occa. my occasion trace of exudation in some diffic.
to see the adhesion. This is the "immediate union", but as rule
small amount of tissue is formed. 2 Growth slow but effectual
mode. occur when surface not in appr. but wh. do not inflame
a plate exudat. & covers pr. air. is like M. Mer. Serosif. & ind.
seen in lower animals 3 Is deep of plastic material layer
in lg. the "modeling process" 4 Deeper Gran. & cicatrization
wh. loss of substance of what severe or destruct. of parts. mitigated
wh. supp. established. Edg. mate beneath serofac. thin cuticle
form thus extends and wound lessens. part drawn together
& wh. loss is extens. a repl. of tissue is impaired. a in burn in
3-4 degree. Cicatrization. in fresh wound in 12-18 of sprayed &
like in certain. comm. at all point & converted into vigil. ulcer & tin
stringer. at first thin red-leaded. grade pale dense. less sensitive
an. but much vitiate apt to slough. diff. appr. in ther. The opimpl. cut
wh. lines. thicker in certain. wh. loss of substance depr. or ach. to bones
in gen. that smaller. that project is puckered. Scrotal ulcerat.
dark bluish aspect. leader & thin & also sensitive. After time been
in level & get brown in cut. Syph. cicatr. loss of substance of mucl. brown
sen. which depressed. edges puckered. Shindel. vigil. & lump
dently red. wh. formed indelible. a good deg. get white & less seen

Skin of chest & abdomen is bruised & lacerated in many places
& around the pubes. Scrotum pressed apart. Penis & testes
pressed apart. When scrotum & testes dissected out
no injury is discernible. Two deep wounds near the centre of body. One
the shape. wound of chest & abdomen. Edges of wound & skin
were united by the folds of fatty & muscular tissue
but above were open & gaping. Wound of chest & abdomen
filled with blood & pulpy tissues. & clots mixed
with blood. Upon dissecting the parietal shape of wound
upon the wound & right side of abdomen & corresponding
the diaphragm. Liver & right kidney could be seen
through the wound. Left portion of liver & left kidney
& spleen & stomach & intestines could be seen & felt
in the abdomen but no viscera or fatty tissue protruded
through the wound. Suppose death occurred
after the wounds were inflicted. Wounds could
not have been inflicted by a person standing
behind deceased. Wounds could be inflicted by
person standing in front of deceased.

15/12/31

Face & forehead, lips & cheeks blue. Eyes & blue body. Nose & lips
bruised & swollen. Tongue protruding. Face presents a livid appearance
& appears to have suffered slight struggle. Forehead & cheeks
bruised. Nose & lips pulpy. Face presents livid appearance
& indicates that deceased suffered struggle in agony

Chg in the spot in Eccl of blow. shading out gutter &c. Cha of Eccl of violence
Sometimes they do occur in death of sudden kind & may mean
those of violence. given edges, & coagula may occur. due to the
most dep pts of body are in them not in the upper part as for
Cadaveric lividity. It is an exceptional case. be careful therefore
in your evidence. Use of weapons

When found dead & marks
on body or wound. of weapon is nec. asked of profile by the nec
pour found. seldom can swear to identify. most is to declare
he believes it is the one or one like it. No weapon may be found. then
asked the kind of weapon. rely on the wound. In all Cm. trial
wrap attack that wound caused by a weapon, as indeed
malice & deter to hurt sing in the person. To judge correctly
med wit. should see wound soon as in the dead. Put
up after the aspect & in long vital changes. In going
end do not be too positive. as real in some plain as incised
spinster, when in contra slicerest not so clear. Dis
Incised Punctured Lacerated Contused & Gun. shot
Incised has sharp edge. made by cleaner & regul of wound
Edges. clear clean sharp outline & marked contrast to the accid
into fall in. In glass it has ruffled up & not a clean cut. Shape
diff in the reg. stroke & slab of plane & relaxat of skin
and directs. when penetr obliquely. into or other irregular
shape will not correspond weapon may be consistent. If on hurt
wh in tense condition. the edges will be separated & if muscle
be divided it will be much retracted and gaping. Stabs
an incr point one or both ll clear cut. as single or double
cutting edge. only Clear of other slips as small than weapon
wh produced them. Lateral not in withdrawing enlarge
a wound. Punctured by sharp instrum & no edge or sp incr
for point upwards. Tissues bruised. a layered wound. is
singular. may be deep like an enlarged leech bite. but not

and Ecc. to the form violence. This is a reforming
In patches on legs of old ones & lead is suff. to indicate the case
In purpura may be difficulty. This is not assimilation
pur. & it occurs all over the body. This indicates the condition
by result of decomp. met in strata on chest & abdo.
"Cadaver lividity" & not fully formed till body cold, & differ
from others & other course of veins. Is, Ec. a result of colour? is it
ally seen? This often marked & is diff. Asserted that sev. blow
could not be aff. as no ecchymoses. This is opp. to fact. severe contu
are fatal but & cephalic do occur. Prever is prevent. induce, but
also does not negative. Spleen was outtrued and no ecchymo
ous outside. Same over abdomen. Stomach rupt. here & &
no ecchymoses outside. Another case man and wife quarrelled &
alleged did [illegible] the bodily. Due to mech. impact being harm
fe to the bones from the abdo. walls. & surface vessels, escaping
injury. One other case [illegible] will give you. Will Ich geben dir. Ich war
. Careful not to attribute all cases of rub of ver. tuger, may be indep
of any injury. In these cases is apparent as coats will
be diseased as in stomach or intestine. In rup. of heart
& uterus. get fatty degeneration. Two form of Ecly. met
wh. are uncom. with viol. one Cada. [illegible] livid on heart. neck
& extr. a mottle here. in patches. irregular. & may be
universal. This reasoned by death, is a P. M. appear
not dev. till body is cool. & is in sup. lengths of [illegible]. ven. is deeper
in sudd. death. or violent ones. All to [illegible] of cap. all vessels
[illegible] in proper Haemorrhage. 2 fr. not of [illegible] is in
slope. in course of veins. [illegible] each way from & [illegible]
to livid hue. called "Vices". straight. long. [illegible] & met
some [illegible] of pressure as of heart. It is. a sign of [illegible] to
[illegible] a [illegible] condit. of [illegible]. Seen in low fever
& [illegible] from them. In sudd. from heat discr. of the met
Cap. vers. congested but no [illegible] or clots in cell. this

M James Bovell

Wounds & lesions in kind may be unattended by ecchymosis
& no effusion of blood. a slaps & cuts lacerated not always
shunts may be torn & but little blood effused. A contused
may most highly vascular part salaam hair & death.

Ecchymosis discolorate of surrounding tissues. Integral med
ds of importance. Complex question. It is superficial
skin only & after the injury a time or few hours. When speed
follows red or blood red not when time. It is blood blk
not always the case. may be blk very soon. Sometimes Ecchymosis
is not at seat of injury. & come in several days afterwards.
J B Bovell Doctor Medicine
May be muscular action independent of injury, of stiff as vomit
may be common. It is a poison out of blood but resolved & that
form which is superficial & is tow skin or cell tissue. May be
poised out in muscular substance & may be unattended
by discolorate of skin. Though suffer from out yet it is the
blk pathe the result of the poison out of the blood. Effusion
of blood refer to all forms, inter or external. Bear this in mind
Isolation tissue body may not show as Ecchymosis till after death
& so guard against error. Chair of colour of spots a sense to deter
time at which injury is inflicted. Stage for dark blue to violet
to green yellow & at the light lemon cits. Centre start to assume
natural hue. Assigned to gradual delay of blood & cellular
fluid & slow dispersion, but will be influ by age & state of health.
Expect injury that allowed of ... disappear in 10 days or
more speed. In old, will stay for long. There are in at margin
and some found disappear no change but lessening in ...
where cell tissue is dense direct is slow & if thick or neat all
Part of skin infiltrated & cell tissue vessels ruptured
May occur from natural causes, due to weakened capillaries
called by ... "Ecthema ... hyperaemia". Met in other dis
ample diseases small pox. Purpura deathers. To these marks
another term "Entulation" & discrete in salt & ... it marks
after death from decomposition or capillary stagnation or congestion

Not found in wounds rapidly fatal. Depen on chart
wound Continued. clean & dust signs of vital action. In time if
Effus of blood & impl bl vess or clots pneump's strong that
it was inflicted in life. Cond of brn dep on ch of violence
or weapon age & wound full or empty slit of vessels &
Form depend on shape of weapon, & get evidence in this way
The direct of brain not confined to cellular tissue but all
the other muscle as well, & skin not always destroyed
but may. If incised wound traces of bleeding, blood ar lens
& when formed in body. it will be coagulated. If
examined edge everted or separated by a clot. This may
be often seen. If inflic in life the no vessel injured & little
haemor yet edge found everted. mural layer of dividd
is retracted & so is the skin. Taylor mentions a case of similar
nature based on nature of wound gossing. This was confirmed
Wound in dead body. & in compa. Chisholm. a brn or cont-
ion on dead body & resembl the ventring if not by ll 3 1/4 hrs
after death. Blood is effus. & in cutis & mit. & coagulation of
blood will occur. In general when contin in cl. bod. blood
is dark & in semiflud state. No injury. if incised
some hrs aft no blood effus it will be venous in kind
Edge soft & non-elastic. cell tissue & intermus subst not
inflatated nor any there clots & if an arty is divided
it is empty no blood in it. Obse when ones wound cause
of dea death is immed & an effus of blood on die good-
ness to contin bleeding. After death no effusion, so that
quantity affaired. When body remov from place & all
matters of blood effaced. guided by impe off parts imp-
licated. In 9 remain care. Along be guarded not decided
not dogmat. When inflic with weapon it is prob in cont & asks
of them inflic by such & such a weapon but do not swear to
the identity of the weapon. Care when man clasp in face

James Smith, Mtg. Friend

malice a fortnight was made out. Stat of mind hagg
g time of still being then or by caries of them, or from debility
Style made dang or mould for unit of the syst greater
a Scot. cum or cachech taint & haemorh diathesis
there not uncom & light abrasion cause profuse bleeding
All these bear in mind in case of judic inquir. Neglect
of the patient to the ear of arrestor will affect the bearing
of case. Refusal to submit to surg. aid. Negl. of surgeon
adm. unsatisf. of render. severe cold or heat all matter
wound dangerous rh otherwise would be harmless
Malpr. of surgeon may cause it.
Wound 2 Clas. without sol. of cor
& with. 1st All contus. cruens. fracti
ulcer. 2nd incis. pun. lacer. cum for
dis & gunshot. Each of them has some common
form by deep if has external marks of trace
whe sol of contin or not. In Exam wound in dead
bod. sol. length depth. rate of mand about effor
blood. whe both in blood. also of contused. edges
as of hay been done some time &c. or prese of pus. organ
or inflam. Gangrenous. all tests and bear in mind
In Exam do so with care. & so a bougie pass the
bottom of it. do not distinct the position of parts. Every
muscle nerve vessel. other of wound mool open. note
its state avoid injury of the parts of wounds. Be certif
ul in drawing up a report. Do. In surg a body follow from
rule examine all the body. Exam stomach also no surg of
poisoning. Ben. reg one in life prone an der 6/12/71
deg in reg of exact of wound or occurs. if inf acts & not
of prod. it. Eg. wells or wetted & cutty of negl. tim & of bel
stake lying supp gang. & what then all tend to show the
vital act has taken place & indicate the ind had by
some time

wound of lay stroke & Bu & Dorpt. & thorax & Dy app. live
kidney & many years. Or of genital organ in worse the
ulcers. In male testes is dangerous, but always fatal
as cases not warning on all rapid recovery has follo
there are usually fatal for Pon or second cause. as
haemorrhage or or intro of a function, In such. report
your prognosis guarded & danger likely to follow ist-
ated. this apply to cases in wh mortal injury is sus-
tained. Yet look out for Nature has her resources In
wound made dangerous & not imminent. Need not
not just in say they were in course of faster injury
Day wound the wh must fail for my of vitalog
the wh will finish. Former, penetrating, thoroughly
of day. Contus of head. the & abs. Extr. con-
dict. spr & joint, sev blows or injuries dangerous
as rapid disorganizing, slaughter spa of the
Second. wh will will function of organ. but not gener-
ing of secon org & dict. Eye ear nose, general organ,
the ulcer (virgin) divis of muscles fract. of bone. Wound of
perineum. pricking or disch of tendon. injury of nerves &c
all impair perm at. Slight. skin divided & much
in dis of fibres. & all such. in wh no tendon is injured
when no vessel has been injured. over the vicinity. wh injur
the coats & mucous of simple he classed as dangerous
one. ate fract simple on & dislocat. Comb & age of
patient. influence the injury. In old & feeble person
less likely to heal than a a more ever in young subje-
ct. penetr wounds above distinct of vessels & make
the wound as dangerous one or mortal one. Condit of
disc with to arm, ay hen aneurs, or praeter thum
of skull. transport of the viscera. All these go far
to exculpat an excused person of murder wilen

Wounds

definition of the term. It is a rule of conduct by a sudden
ancer rupt of the part. that all that alter of any part prod
by violent means, hence lacerated incised cutter, frac
distinct burns &c. This other comprehen is not one
in law. Law arrest that no inj is wound unless skin
is broken & internal which should be included in-
der the general term, This is absurd defn of a wound
But the Engl statu meet the case all mischief is provid
for & the actual def of wound is not ne. Gr. wounds bodily
harm is accepted by courts. All wounds not gr. bod. harm
of for wish in wounds by pistol you would state the nature
of the wound. not that it was a gr. bod. harm. In France Blis
cure. is used. this is need & legal term & signify an injury
a stuff. gr. dist. or frac. spr. or abrasion. also appl
as under a burn & cold. Med witness may state of dan-
ger to life. this lead to divis in 3 classes. 1st slight d
Dan & Mortal. Sligh. that class in wh
is part injured wh are vital and wh cour is to heal
much & lea no deformity. this includes, slight
Danger that in wh pts or organs wh are imp
vital are inj & chance of recovery is terrified, treat-
ment tedious or uncertain, or part permanently injur-
ed. Mortal. all those inj whose cause &
effects are death. this tho good is not recogn in law
Also may indicate why a wound be mortal, yet he
will be very examining correct inter prep to lack his
statement by facts. therefore be guarded & regard
the wound day doing in wh it is inmanent. Those in wh
inj of heart or vessels or open in cavities, or brain the
regard as likely to be mortal & are so ath unsou-
for a time are uncertain

Result of acid or humid. can get by neck evidence, but that food from a kid is humid at stars. a mother must supply pass to the kid. But the man must provide sustent for members of the household. If the food supply is insufficient quality or quantity, & make be poor, a change of pot fat must be used. Effects a person never vein from such treatment proved by experiments on Cavalhorses. From that of 10 days a hor can gallop but will not keep it up. when fed recovered will. In 2nd 20 days & still a temp recovery, in 3rd from that day for any time safe to act on this muscular face never recovered his full strength. 10 days of it produced this effect permanently, & animal was liable to diseases of minor nature. Regarded as a secondary rest. a fit to be foll by low inflam. resist all means of relief & prov fatal. A man 23 days in a mine, when lifted up he was extremely emaciated, under treatment he recovered & gen an acc. for 1st 2 dy hunger. was most & the thirst; this he cally to drink fowl water. at end of 10 days could not move slept but little. had Dr. no loss of em cummers & bowels very acted once. but passed H2O often, an ivy gen after & a small quantity of offer faces. He never rallied much the cur was to died on 3rd day, P.M. Exter examin. feat pal. eyes sunk skin of abd wrinkle bk bone. Emaciated very much. Dried aspect voice reduced brusk. intell sound blast, no P.M. was allowed but it confirm that debt is not always an attendant & may are from effect no further effort of nu. Ocular debt not in all cases but occasionally. Martin says it is ch. as skin loses its elasticity, seen in wasting diseases. Death app impeceptible or syncope follows an exertion

Rt hyd. ben more yh usual. Heat falls rapidly & wh temp
to 77° in dr. In next 24 hrs 77 is death. In Standard
immediately after the bd. Can an anmd & pr stim
lus. & pr much heat. In healed air & observed. Int
degree did not take place unless temp was kept up by
some thermal means, yet it was attacked [illegible]
ion. Phen. 1st pain is felt in epigast: nb & pr. face
pr. & calm, mind & skin perfect, bd & ms. Eyes
natl, tone perm. sensibility & intelligent. Pain intense
at time & pt of delirium commences. Marked perfect pe-
culiar pr & cts. & the face & down. In M. myth & hyper
ben is manifested delirium. Temp acute. af 24 hrs
pred after pain subsid & perfect comm & sunken
pell & mouth pr & body for clothes is spread, face emaci
ated stag & skin & odour & dusky brown, like tanned
this melting as neglect of cleanliness but was found on 4th
day 4th face week & despondency, weeping. Mental fac
ulty dozy & imbecile, & in some cases delirium & mania as in
the P.M. Pupil & mat-of fatid eyes wide & open, but not
acted. Skin mouth & face & pl. & nails empty, pall
chalk distended by lungs collapse, putrefaction rapid. Clean
dy will do it in some cases. Brain & membranes & dura
mentum is sane, bowels transparent & [illegible] & [illegible] & [illegible]

street. he was incondit as of concussion of brain
Slight shock stuns & they suffer for hunter ar. verty. blind
ness or insanity & when they fully are usually permanent
I wrote fly my ocu. pxy spasms. spasms. followed & body drawn
to left side & he was bled & blistered. & he recovered. Burns met
with, there ascribe to clothing but no doubt as caused by the light-
ening itself. In one case a laborer. was struck on forehead & a
contused wound was found and beneath it lines was blood
flood into 2 currents down front of each ear, & down the chest
over the abdomen. at exit two bluish marks with extrav
ural. all viscera congested but heart empty & vessels. Fluid
was indicating eff of blood out sub cut cell. tissue in its cou-
se. they were ruptured in its track & blood was found out.
Muscles found unhe & eff of blood

Death by Starvation

is var. ofte by cold & mental cond. Homicide by it is cacas
& not inf that insane refuse food & poison is mixed. Prison
ers made by sister will starve themselves. Death my occur from
dis as stricture of oesopt or dis. of stomach. Mode is variable
in gradual period & death after cond period. In others
total abst of food and drink when nature is gratif & food is too
pers in. & . Period is variable. depend not my on age & vigor but
the person is able to get liquid to allay the thirst, a little liquid with
prolong life. Animal live twice as long with H_2O. 9 d. hunt for man
in ord. time but is often longer. Inter of pand should
be look out. as the case of the Welsh fasting girl. Exper
on bird and animals. a very mult show that body was
red 4/10 in weight & that at it was reached it died. of
fat. 5/10 might be redu. Age infl. young died at 2/10 & loss in
the never exceed 4/10. What organs attacked to supply this was
Fat first went but not essential muscle, heart expen

but L. will strike upper part of mast & cond. to the water
James Bovell
and safe in open space. Not always as it may be the most
prom. an elect. shock of a cloud is neg. & earth positive
into charge takes pl. & a body may as ~~as~~ conduct. &
death occur. called "upward" stroke. Effect are familiar
. bndy shattered. Metal is fused by it. Origin proper communicated. In death. ~~no~~ med. jurist. must eng. the app. P.M.
Ther. are various. some none at all. when no sign. deathly
upward current. In some body is torn at point wh. fluid enters & a small hole at exit. Bruises, met. chest on back E. thro
the marrow. but these bruises are due to the lying on the ground
& decomp. is adv. rapid & then shrinks down the back occur
like actual bru. But bruises have been found. sometimes
Bones fractured. skull sometimes. In one case a parson
was struck in his vesty & was found dead with handle of wind
in hand & head shattered to bits & not recognizable. One case
in wh. the right leg was completely torn away & the clothes
scorched but the boy got quite well from it. State of blood is
fluid other alley is coagulated, some sg. muscles are rigid
others that it is absent. Some state that decomp. is rapid
other that it is retarded. Should note the state of body of
bl. is fluid & no rigid or decomp. & will other circumst. would be rigor or conclus. of mode of death. These are not
peculiar to this form of death. Knife or cl. will afford a
clue or even positive evidence. may be burnt, shoes torn
off & nail of shoes magnetic or fused or Fe. knife or steel
plays. or manipulation of watch magnetic & would end
of trip elect. In it the shock kills as an animal
in wh. brain is crushed it is sudden & instantaneous
Do not accompany eng. death by light. Brodie found in some
all vital phen. ceased in others heart beat for some time
the shock is macer. of pain. In an old way in Bleury

heat on dead body no red line, but blister my form but filled with an not serm, & skin beneath was dry, some ten minutes after dest. One hour after, no chg wh could be mistake for the action, these bour only others, In pen whose limbs were arrow blisters with fluid will rise, Casper say veneal can be produced at any time, but in life it has a blast line about it, the venous exist it is a vital action and the deep red line a sure index that it was in life. In case, Another subject is

Spontan Combustion. J. Bovell. M.D. M.R.C.P.

that the body has eg ignited without cause is fabulous. Body has been reduced to ashes & the furniture only & crotched, this only from an animal combustible & also as in spirits drinks. In these cases only. The idea of it by spontan. is incorrect. Guards of orfila thinks that it may occur sometimes, about 20-30 cases cited & 20 of them in Frac. Of mis subtle is well known

Death by Lightning

Common, the rarely to be opened legal inv. an like mechan violence so might be questioned if foul play was not on hand. If no field or highway or wounds or fractures or several limb all from light. To one unacquainted, such a case present all indicat of murder, but clue to cause a may as Stone was recent. This is rotating the case, some exceptional cases. Good condn an select & body is one of the best of the metals. It is not E. fluid artif. as it is, occurs eccentric not always of best conductor. Telegraph wires are sometimes melted by it. When stone on the line it under will message & occa enters office & set fire. Shortly wires & dancing instruments. Falls dancing dis. clouds brides away & account for being struck at foot of trees. & at the deck of vessel & not any not most

neck & trunk. bad. Kids bad. 1st depression & total congest
ohe 1 to 24 hr & death may occur, sensat of cold, is collapse
and fits of stupefying. On subsidence a period of quiescence & in this
he becomes comatose & dies esp in young children. Usually
cry of brain & ment. & effusion. Besides, you have, cong.
of subsid of lung & in ment. of stomach. 2 stg of reaction &
inflam occ 2 to 2 week. initial fever early & severe. Ascede
special symp of inf of gas intest. In M. or Lung affections Cong
& signs Pneu & Bronchit. or Brain somet but less nowthin
subsequently. In this. peculiar aff of duodenum, Curling pointed it out
in somewhat of it. ulcer & perfor of duodenum. occ bet. 10-11 dy
Pale app doing well when prost & peritoneal sets in & death
supp that Brunn gland ender to compen for arrested cutan
sever & be once congested & inflam & then ulcerate & perfor
Occ pancreas ulcerate & artery opened & fatal peritoneal
In 3d stage of gram & healing in this constit apt the wrap
healed. Fatal consq by exhaust & suppur. of 2-week to Close
Hectic is prominent, & constitute irritation, induced by
aff of lung & abd viscera of a low grade, relay of present
gland. or Tuberculous of lung, or have in kids Tubercula Men-
ingitis, In Medlegal Lag not used wounds but caused
and in a day to life. Question, sunt to oth. except Sur-
cide. or Homocide, somet. do occur, but death of him in an
other way. Major are accidental, a quest. is put when
he took place before or after death. Can you determine this?
is important. Must dist bet. from on to sd. In life
fit. sun nand spot is white line, & b. a red but. which fades
gradually this may be removed by pressure, & again early
are raised in 5-20 minutes. Next. is blisters with
air. not deter when they occur. of prostat. these do not
occur. & of death a few minutes will be absent. In Scalds
while rapidly delayed in kids & somet. not at all

Death by Burning James Boone

includ all result of extend temper. either cloths on fire & by burn of bul. & plosions &. Hot H_2O drinks. scalds &c. Burns and scalds in surgery but med purist has only one. Is no distinction to be drawn, Boily liquids prod & a serous according to ly. metal the most severe. Heat in body divided by Dipteryx, 6 classes. accord to injury to part by the fire or liquid. 1st degree. in when simply redd. skin only Erythematous. no destruct of skin. often will peel off, though no blister, heat & pain in part. no vesicat. pain for some hours, is only inflam of skin. 2nd degree a yellow colour. amount is by liquids altho may be by flame. They are produce rapidly and others will form in 24 hours. or origin ones enlarge. seldom the 2nd dg without the first in a slight degree about it. 3rd degree. destr of outer surface of skin. this follow by form of Escha. yell. surround by layer of inflam & may be blister about it. In this supper rapid and eschar seperates in few days. a granular surface. slow to heal & leave eschar. what but no destruct creates. lower than surface. 4th degree comp destruct of ent skin & cellular tissue. In these inf about the part, ~~the~~ a blk eschar forms in time is thrown off & an ulcer left slow to head & with a contracting cicatrix. a pearl when aff by fluid. sloughs are soft & yellow, if by red hot solids they are firm & dry. skin around is swollen and puckered. eschar is depres. Skin inflamed & vesicated. Slong sepe in 7-10 days leave an ulcer. 5th degree entire dest of skin cell & some of muscles & apn. 6th degree entire charring of whole limb. all gone. Gros divides wt 2. those when destruct of tissue & the ulc are complicated. Effects are lever and rapid. depend on situat & extent. less risk if fort. were chased than if a lay burn on trunk. Other cause age. sex of ing. Fatal element is superfic extent. when congest apt to follow. shock to nerv syst. no doubt that death often due to nerv prostration. About bace

little blows off the pit of the stomach. Lay draught not always
fatal. Somet like cholera are produced, pain & prost.
lead to coag. of extremities. This is in some degree. Vomit.
spurs effect of [illegible] to red of [illegible] mat. In all species
can [illegible] hot cold & [illegible]. Safe of stomach pa
in pecord [illegible] & [illegible] & [illegible]
[illegible] p. m. [illegible] [illegible] [illegible]
[illegible] of [illegible] app. [illegible] [illegible] [illegible] [illegible]
[illegible] of [illegible] at [illegible] angle & ex [illegible] arch eff.
a [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Treatment 7/5/4/71

is [illegible] [illegible] jacket [illegible], hot foot & [illegible]
cold to head & cold drink. bleed sometimes not usual. Slim injection
& slim by stomach pump. Quest wh. cold drinks do produce above
effect. any that temp varies but little. that effect not witness in
[illegible] places, they drink with impunity & death is rare
Dickson of Cha. says that these cases are unknown to him yet
ice drinks common in South, all classes drink it. In States
labour by whites was exceptional. Other testimony. In Naples
some supp. to see them in heat of day & drink draught of H_2O. This
common and do it early and often & death unknown. Foreign
Eng also do it with impunity. They are connected with connu-
cing apoplexy, or insolation or sunstroke. In these the shock
of H_2O only deter the apoplectic condit. Gerrard drinks not cold
H_2O but that no heed ~~[illegible]~~ of 50° or nearly of. is more liable th
says cold H_2O is a stimulant & not liable to give shock. but if
higher temp about 50° it is followed by prostration. Action of cold
Pneumonia & other aff follow. Cases are apt to lead to susp of foul
play & have to investigate cause of death, but circumstances will show
what it is. they are labourers as a rule. Usual occur in public local-
ities. From

James Bovell M. Drinker

admonitor stimulants, or resort to some Encinata
sand turpentine Hot coffee & hot tea good & gin soon & with
a wee drop of whiskey. After treatment depend on cons. seldom
pulse escape rupt of internal organs. & the most fatal is pneu-
monia. Wh of the follows' App. seen after Ca. as like those of fever
burns & scalds. Vices congested. surface pulse & sens. Eff. opera
in ventricle & vessel of mesen gorged. Vessels of brain & meningies
full. Diff to decide with certainty whether in case of dead body, dea
th from cold or any other cause. Also from injury & circumst lead to cons.
Ex. chemist. Impossible to give an opinion as to cause of mere
inspection of the body. Cases of murder from exposure are rare, but
acts generally are so. In case of Burns. It perished from the cold
Sayle say man & his wife for murder of daughter. in cold female pros
death from cold in this case was from the cold and the parents
were convicted. Accumulative evidence in this case alone caused
Death from cold H_2O drinking of it. in this country & at
range is high. may die suddenly. Wh body is over heated
Rush called attention to the 3 die dy w Philadelphia from
it. Sympt. muscat weak. dim vis. sleep. labour bo. Const.
suffer. Eyes hard. pulse small. In some convulsions he
expired. See says he has seldom seen it so rapid. In New York
20 die in a dy from it. Some sun ago, death from sun stroke
were numerous in N. York & controversy was got up so some of the
thos to be due to large draught of cold aqua while body heated
May were so no doubt. Remarked by N. York Auth. aver-
dura of 1/3 3 hour of sun-stroke. in some days an
days. This is diff from descript of Rush of cold H_2O cause
it by shock and it occurs rapidly. In these both decomposes
rapidly & P.M. mud without delays. Noticed most of these
in intemperate habit & labour in this case. Under the Nat
in bad condition & not wonder that draught taken out the ch
it acts on sympath & the shock is too much & he die heads he die

James Bovell M.D. M.R.C.P.

long not out. cutlet rubbed. no effu of blood nor any of cutlet but on bet lyon. Internally the lung membr of larynx healthy or mucous & pale & blood. Thora viscera healthy veins congested vessels of brain turgid. post ligament found torn, and extravas of blood betw muscles. Same appr. mph. of spinal ligam & effusion of blood in the tissues. Occas by per in old wells & sewers due to H_2S & CO_2 gases, falls unlam insensible & goes at once. Curtain with worthy to let down a candle. Smoke of lung building. in these one peculiarity, "the peculiar, as if cainly asleep. natural blank on the cheek look as if asleep. Are not invariably fatal or unlaughly fro unlat of smoke. Cap. Brouhte follows, ~~when sand~~ from smoke after dissem the trachea & in finer Bronchi.

Cold death from.

mod inorganic. if intense mouth come on. pale. loss of peasant. & finally freezing. when whole body a felty of tissue & disc of m. then drowsy. this unless person is roused & forced to save himself, sleep comes on circulat is languid vessel of arcan & life cease. Inter cit. unlaid capill. & bld. is in the inter. N. Syste. gives to plan mouth. torpor. solum. gidd. dim vis. delar & paralysis. In Moran. Bl is low in temp. heat slow & feeble pulse small & thread. Brodie says. 1st lessen the mouth sump as Ner Syste 2 unsp cont of muscles 3 2d can cont of capill of surface. & arr cutan secretion. need not call ach explosing &c. One effect is prod acond like intoxication. In all cr wh Ner Syste is exha & wom out by disease or by exertion. In all eff speedy dim wh Ner energy is impaired the subj falls an easy victim Cases point to this. in Ottawa lumbering district. wh they are tea, when long exp & prof. insen is pr. motor animate continually danger of excessive nat would prove fatal. remove to cold room, stop and fretts to hands & feet and if poss not with snow gently & steadily. surf of body chan with hand or flannel. After patient pretty of has swallow

Annie Laurie Laura Laur

apt in person fatty in skin or mind or H_2, or in fit of any kind
or the cause is self evident. Suff sand is rarer. Ob Contr is
charcoal or fired or fowing a bodies in their mouth

13/11/71

~~[illegible]~~. Sugar [illegible] is unsafe to prevent the suffocate
esp of coldness is kept & can scale alarm & fighter the
murderer. Men of [illegible] it is accidental but this is
passable & leaves no doubt as to the cause. In murder means
used point to [illegible] force. Burke selected this kind
a case with the trachea was filled up with bran. got by a boy putting his
head out a sack of it & getting his head tied. App of death arp
or fin. Newborn kids suffy putting sometimes into the mouth
& cyclor as sometimes suff accident by collar rag in the flour of sugar
is teed. This quels them sometimes destroys life by drawing
it into the trachea. In these little traces of violent death
app of body not well marked. so little characteristic that
med jur pass over as death from natural cause unless con-
ditions occurred. In some ca kind of pt [illegible] lips hand features
pat [illegible] in mouth. Mouth & throat examine & in-
ter lung & heart & will present aspect of asphyxia. Abd over
the kind patches & congestion of them & congest of kidneys
vessel of bran congested but often not much. This allot
to [illegible] or rapidly of death. person in crowd. skin with
pass violet & spotted with ecchym eyes bloshot & serous fluid
flowing from mouth. Time is important. for in sudden death
from anyone. More rapid in sudden death. Make an early
examination. Note the appearance of the body. In 23 case of it
as a crowd in Champ de Mars in 1837 [illegible] this app.
but in some part of [illegible] & skin. Old on all veins dark & fluid. Pet
tissue infiltrated. In none were ecchymous on features. In all eyes
were bloodshot. In some old fine ears & vessels of brain were gorged
In one of Burke's pats. Eyes closed. fa swollen lips dark blue eyes blood

it is thus. Suicide, is one half of cases recorded. it is different to person. By hand on the trachea it is homicidal.
In J. Wolf the other mark considerable, as in case of Hetro strasm on it lie over the windpipe. it is black & deep mark in the throat. Tubes appear pro den. by arsph. mer. of bras. inject. Lung quantity of blood &. Case of Suicidal are comm. enough to prove the possibility a slik. or smth had as a tourniquet & face &c. Hundred accomp. of marks wh. lead to suspicion of the act. this & ig clear & dubie are simple. Principal in indeceased great the necessary. Not always confined to the neck. This is more observed of made of vigorous resistance. A que. wh. proof of it can be found mouth or gens after death. Admitted that it is.

Suffocation

In mech. compeds of air. may beat mouth or any wg. dose or compr. of chest. Drug is deathly suffocation but comes ind. sep. bes. In 5 yr end 1866. Smith in 1/3 of all case of devil in Kids. of the 1/2 was from overlying. Balance from pr. in of bed cloth. From food & inh. of gases, mur & mud & an incom. may take place 1st mouth or not by accident or d. in a fit may fall in the face & may perish. May be again soft earth or H2O or snow. Kids by disch. from mother & mud has been perp. in throwing. Mech. prism of the chest. is by accident was as in Earth falling away wright fall on or mud & amp. pressing in the chest or larynx. Or in a crowd. A case of By prism on chest is a mod. of lotter on England. of an law of England on prisoners who refuse to confess. or, Accidental air from sp. air of glottis. in Kids. Laryngo stigmatic or Spin. Croup. sharp & rapid & when fatal is so rapid. Often by initial steam of body H2O & Oedema glottidis follow & death after. Cases wh. from foreign bodies in air passages & death

Strangulation

In hanging the cord is rarely placed round the neck immediately over the spine, but generally on one side, more or less towards the front of the throat, so that the head is drawn to the opposite side; the knot is generally under the ear, or towards the back part of the neck. The body descends with a jerk, and the whole weight of the body is suddenly thrown upon the cord, which, in consequence, cuts deeply into the soft parts of the neck, and sometimes fractures the bones of the throat. The face becomes livid, the eyes prominent, the tongue is frequently forced between the teeth, and sometimes bitten through, and the hands are generally clenched. The pulse ceases to beat, and the heart to act, in a few minutes, but the body does not become perfectly cold for many hours. Sometimes a convulsive motion of the limbs takes place, and the sphincter muscles relax, so that the bowels and bladder are evacuated. In some cases, a seminal discharge takes place from the penis. Sometimes, but rarely, a bloody froth issues from the mouth and nostrils. The countenance is sometimes pale, sometimes livid, and sometimes of a dusky red colour, with numerous petechiæ, or purple spots, scattered over it. The eyes are sometimes closed, sometimes open, and the pupils are generally dilated, but sometimes contracted. The tongue is sometimes forced between the teeth, and sometimes bitten through. The hands are generally clenched, and the nails are sometimes broken by the violence with which they have been driven into the palms. The body is generally cold and stiff, and the limbs are rigid. The skin is generally pale, and the veins are empty. The blood is generally coagulated, and the heart is empty. The lungs are generally collapsed, and the liver is generally pale. The spleen is generally enlarged, and the kidneys are generally congested. The bladder is generally empty, and the rectum is generally empty. The stomach is generally empty, and the intestines are generally empty. The pancreas is generally pale, and the gall bladder is generally empty. The urine is generally scanty, and the semen is generally absent. The uterus is generally empty, and the ovaries are generally pale. The vagina is generally dry, and the external genitals are generally pale. The anus is generally closed, and the perineum is generally pale. The skin is generally pale, and the hair is generally dry. The nails are generally pale, and the eyes are generally closed. The mouth is generally closed, and the lips are generally pale. The nose is generally pale, and the ears are generally pale. The face is generally pale, and the neck is generally pale. The chest is generally pale, and the abdomen is generally pale. The back is generally pale, and the buttocks are generally pale. The arms are generally pale, and the hands are generally pale. The legs are generally pale, and the feet are generally pale. The toes are generally pale, and the nails are generally pale. The skin is generally pale, and the hair is generally dry. The nails are generally pale, and the eyes are generally closed. The mouth is generally closed, and the lips are generally pale. The nose is generally pale, and the ears are generally pale. The face is generally pale, and the neck is generally pale. The chest is generally pale, and the abdomen is generally pale. The back is generally pale, and the buttocks are generally pale. The arms are generally pale, and the hands are generally pale. The legs are generally pale, and the feet are generally pale. The toes are generally pale, and the nails are generally pale.

the duodenum gall. blade & kidneys if any urine in bladder
all these points of great moment all tied over & sealed
& given to the Corner. Large Bowel noticed, if contain
faeces sagittal. If rectum contains hard faeces. Uterus
genital organs mentioned. Spin cord not always examined
he ought to be. Necess to observe that they should be placed in [illegible]
Missed Lab of 11th

12/10/7.

Chondrin which by transp. horz. more clouders than gel.
held in soln from cartil. & tendons, gelatin ready & is glue
ok. Beha with heat con sal. tannic is same as gel
but gelid precip with acetic, salt &c. alum
Composition C 49.97. H. 8.83 N. 14.44. O 28.59. S. 0.38
Asch. Sa S is near protein comp than gelatine & bone cartil
as it is an inter stage to albumin & gelatine.
Haematin a pigment colour of red corpus & intimately
incorpor with gl. dark brown lustre, ins in alcoh. alt
but dissolv in spec with H_2SO_4 & oil acids and magn solut
of alkalies Comp. C. 66.3. H 5.4. N 10. O. 11.9. Iron 7.0
Chief feat is Fe, the under in wh it exists diff. Schem. red colour
not due to Fe for it may be extracted without eff colour.
7 Ests. 2 positive & one negative, 1 half of galls & soln of magn
bl the dom red. 2 a rose colour. Negat is by amm. gn no
precip with haem, with all other veg lest give a green colour
Organ & uses. no positive knowledge, pres fat in blood corp
by agency of oxy. Uses can hard to doubt his special funct.
One hypothesis that interchange of gases is effected by its
agency. From spleen is got in decay state.
Melanin in all pt other in haem. esp. as granulated [illegible]
or a transfor of haemat

Notice everything about the position of the wounds &c &c &c
Examine carefully if a struggle & the clothing ∴ Observe all
medical and moral circumstances & avoid accusing of ignorance
Do not show a desire to accuse, he must hold a middle course
& bear evidence to facts. In some cases, called to dying from
injury or poison or any enquiry instituted, May make know
the way of injury or mention the name. This is of consequence
in the prosecution. Of moment that the conduct is to be noted
as made & to received must be made after all hope of recovery
is past. Becomes obvious that if death will follow & if time
allows should secure the aid of a magistrate, that any
statement taken in legal form. Where death likely to occur
becomes duty of P.M. to note words made use of, no comment on
them, should not suggest but receive the voluntary utterance nothing
more. In cases question may be put to the individual
to elucidate any thing, for in this state his mind will not
possess that force of character. Other duties, where found dead
proceed first by coroner, provided, attent to all circumstances
becomes a matter of much moment how to conduct such
What. we are to observe. Int 2 sect. of on viewing the body. 12
after inn of the body. The posit. n at first, are, as far as can
exact time of death, of moment, as in dry of wounds &c
all surround objects as in cases of poison, bottle &c. & relative
posit. bornetted matter collect. Of the impor. of this
. All circumst. conn with the death must be looked at, when jurist
has to make a P.M., several precaut., time only to dear when must
be for excuse the int. into the external aspect marks of violence &c
& of these are should be accurately marked down. Silence & direct jay words
& cadaveric rigidity of old or young, fat or vinous, naked or clothed
if found dead. when last seen living, all are ready to surp. of mind or
m. In making a S.C. exam. every organ. Brain, air passages
heat & vessels to prove non existence, abd. viscera, of intest. of the seat
accu. specified marks of poison, perforat. of poison & its. Tea in ja

The may be regarded as a peer science, various names, tomorrow med
state medicine, &c. & in exercising this forced to apply the various ca-
cum with medic Know. as Anat. Physi. Chem. Surg. Med. Physi.
So possess a pract & ther Know of all branches. His expe large
& to collect together medic facts &. Necessity of a careful study of facts
& of observ is a valuable point to be looked to. Every trivial circumst
noticed as may have import bearing on the case. The necess
of devoting to this study. So that it is necessary. He is expected
to acquire facts in refer to a case & should arrange them well &
should be able to unclaim the work of circumstantial evidence
Medico-legal in Dy & useless, but let me assert, that he who
neglects this is liable at any moment may be called
upon to deliver an opinion. This is of minor importance the
the interests of society are at stake, while the criminal is let
loo & he may stand on the side of the falsely accused that
be my sudo good. The records of our Courts. Case where the most
heinous crimes brought to light. In any given case, may have to deter
the cause of death wh from violence or disease. Must answer
various questions. Must describe & act char of wounds & to state
by what instrument the wounds were inflicted or if any wound
was suicidal or accidental. amount of blood lost. In case of wounds
man dis state of part made any observation behind him. Under
what circumstances the st. a drunkled that unless answer can
be proper given. Readily pecen how serious the reputation of a Phys
will suffer. These observations are made to show you what
importance this is. In a court not aware of the ordeal thro
wh he has to pass. Must not suppose that they are little Know
circum have led juges slowly to acquire the medical Knowledge
The counsel will be posted on the subject. The first duty to cultivate
faculty of minute observation & look after circumstances

James Boswell scribbled through
this book
J.C.