

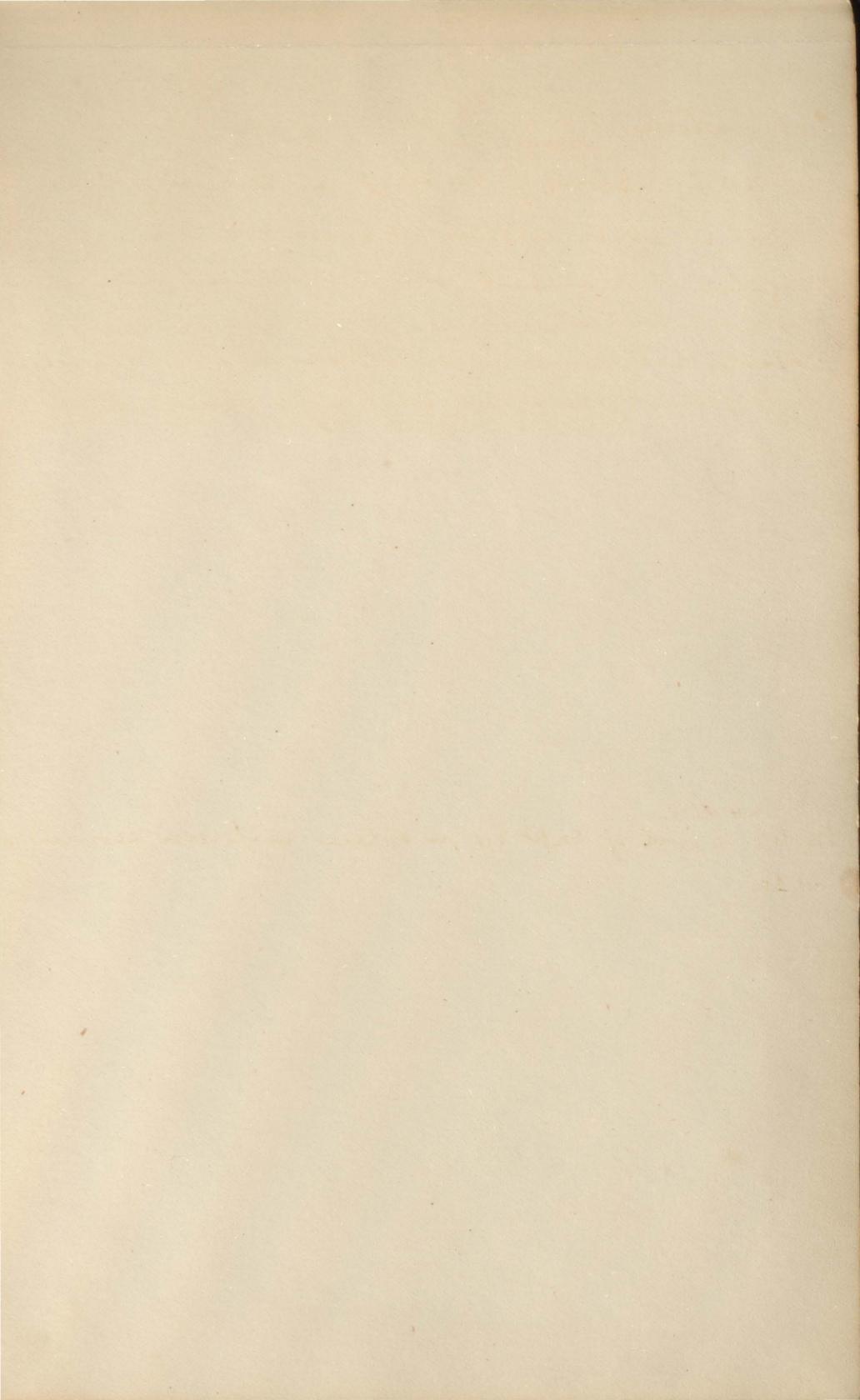


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HILL,
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Ms. A.
45



Anthrax

Cultivations. ^{Wednes. 15}

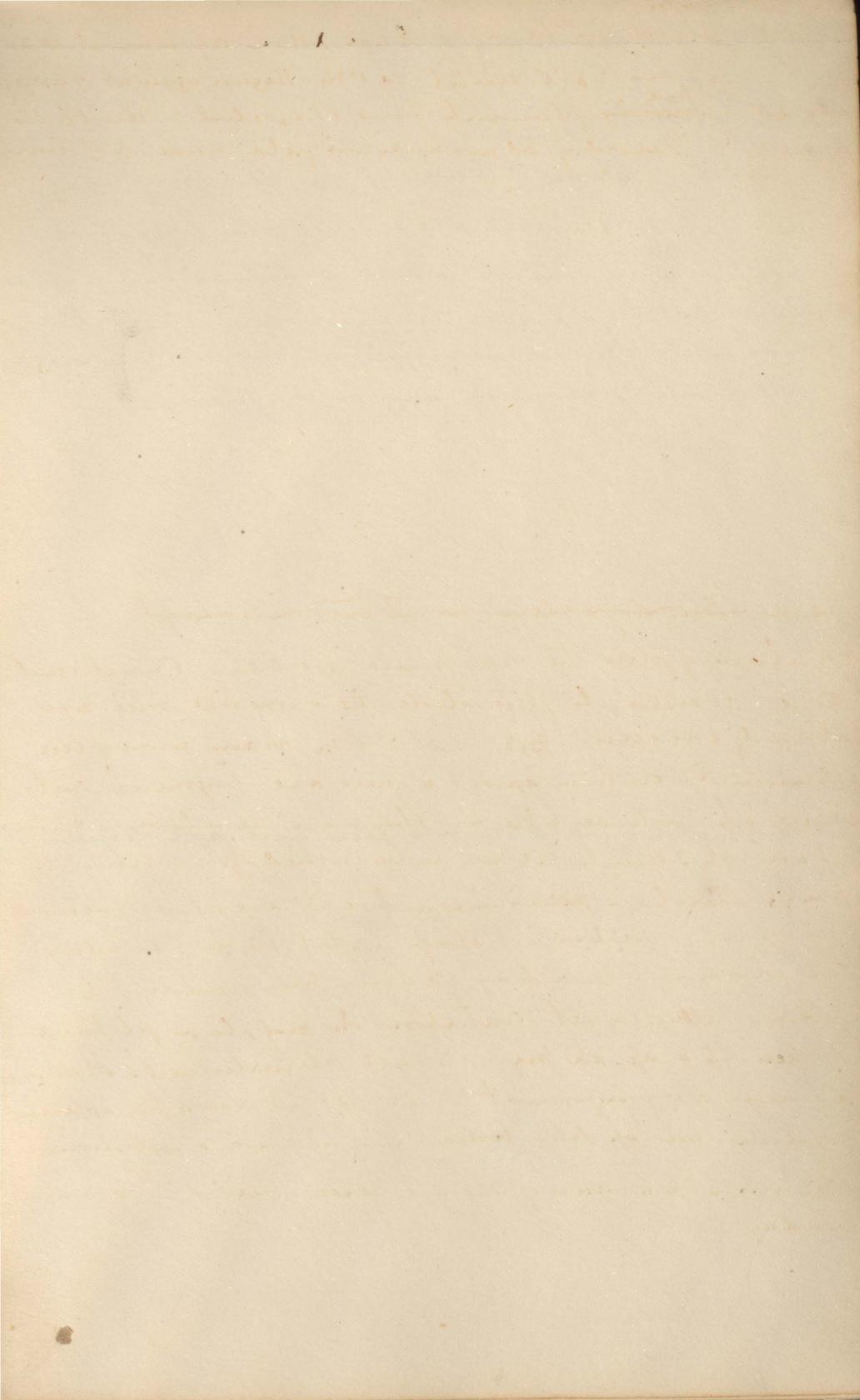
No I Blood of Expt I in serum of egg.

Kept at 35°C. within 24 hours all rods had elongated to filaments, which contained many spores. Kept in warm stage for 36 hours, then set aside Tuesday 22. Numerous small spores still to be seen most of them free some still in the filaments.

24.10.79.

No IV. Blood of Expt VIII in serum in to run serum at

11.30.



24/10/78

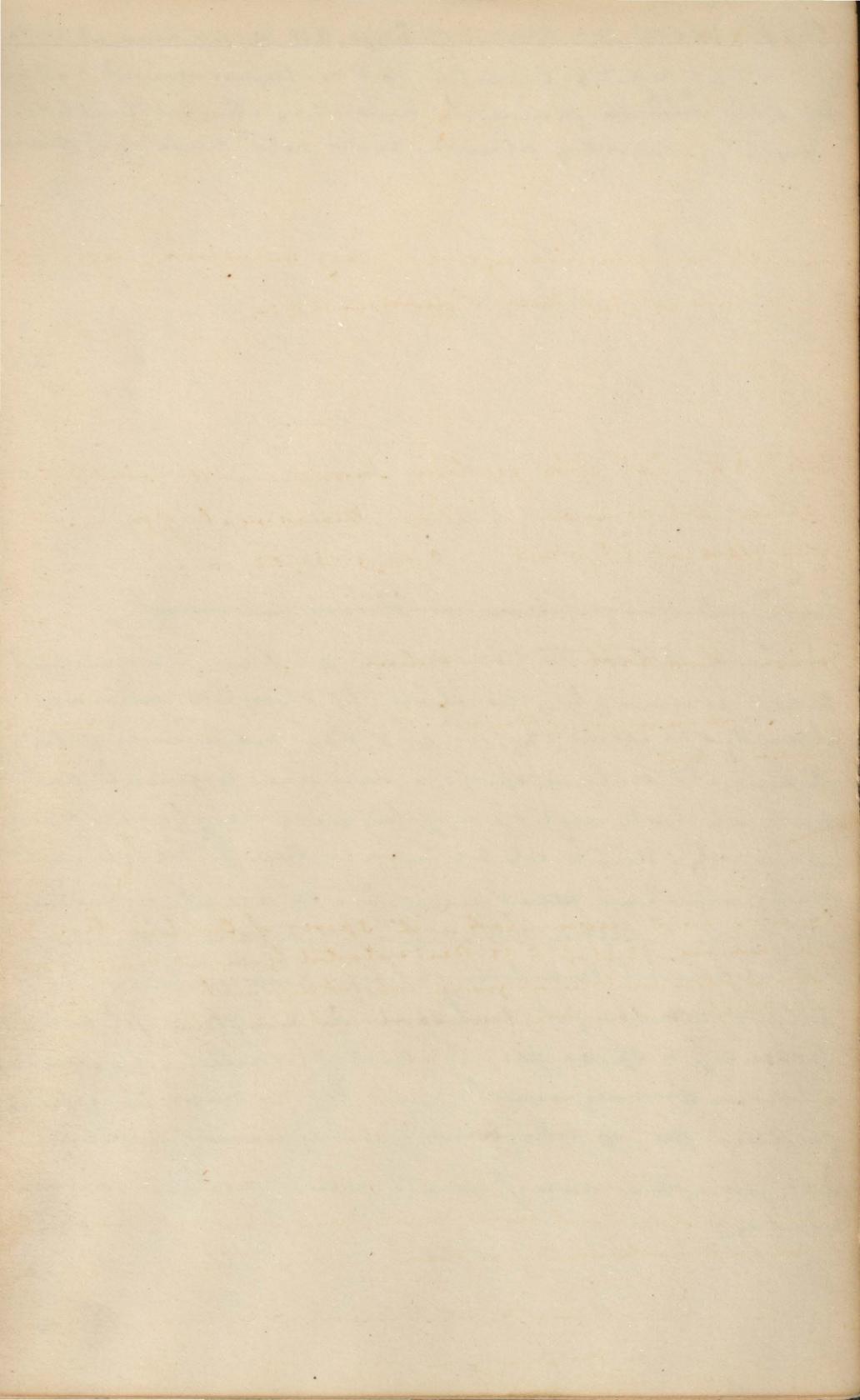
No V. Blood for heat of Exp XII in ag. hum. at 10.30.

at heat 85°C. until 10 P.M. Began again at 9.45 am.

By 5 P.M. ^{fresh} filamentous plants have elongated & double their length. Saturday at noon. entire field made up of dense



~~No VI. Blood for heat in ag. hum. at heat:~~
 Mycelium of filns the mag. spores are clear translucent tubes. at some pts of the slide the spore like bodies are already to be seen. (Fig 1). at 5 P.M. many more of the filaments contain spores. & there are fragment cont. spores, wh look very like as if they were developing spores but are only I think bits wh. have broken off. The bits with fresh granular pieces in centre (3) are also fragments of the hyphae. Kept in hot stage until 10 am of Sunday. Then cold until Monday, 10 am. When condition was as follows. almost by fil. cont. spores. In mag. glass fil. have broken up & sp. are free. in others fil. undisturbed & sp. have a linear arrangement. at (4) an drain the appearance of certain free sp like bodies - as if in course of sub-division at (5). gen. appearance of small pieces of field at 10.15 am Monday.



Expt. XIV.

Bacilli vary much in size, not very numerous. Size
No 9. tube out E.p. mic: 5' diam. 4, 10, 8, 10,

Expt. XV. Cat, after feeding. Innumerable Bacilli in
spleen, not so many in blood. Measurements of forms in
spleen. Tube out. & E.p. mic - 10, 10, 3, 30, 12, 10, 5

Homes. Wood. Expt. - Tuesday -

Some curvius. looking wh. to corp. with large granular
bodies in them



Aquaria. hum. inoculated with spores of *Cultivation V*
27th. noon. He was kept up to 12 P.M. & started again at 9. am. 28th -
Some filament - tube grown out, but difficult to say what
form. The spores do not appear so abundant. The filaments

which have developed look like *Utricles* & in some at 10.40 am.
small spores are developing in them. Kept up heat all day
and evening there are a no of curvius looking arrange-
ments of small bacteria. They form elongated columns.

all adherent together body, as in figure. The filaments
of the bacillus have disappeared, and these look as if they
had developed in their places.

The central part of each is made up of fine moving
granular bodies, while the periph. is very firm the
protection of small bacteria, which can be seen wriggling
about & often detach themselves. The whole specimen
is occupied with these bodies.

In the organ cultivation, ^{for} when this specimen was
incubated there are none of ~~them~~, the spores are
quite distinct.

(3) Inocul. a fresh drop of aqueous hum. at 11.45. 294.
with material from preceding. It contains now
free spores, fragments containing spores, and here & there
a translucent, fresh looking filament.

4.50 PM

22/2/80

Expt T. Inoculated Petri from eye of rabbit with bit of mycelium
endocarditis.

23rd. 3. PM. Has been in the warm stage since last date with except
of about 2 hours.

now field swarms with small spherical bacteria. micrococci
in filices & particularly at edges of the little bit of pressure there
is to be seen a distinct mycelium, very fine & delicate



20 II. Rabbit made with bit from endocarditis

20 IV. Inoculated 23/2/80/4.50 PM. again

When absorption descends, all absorption thought to be carried on by
 them. Magnus experiments. A series, after ligation of 7 hrs duct, pouring
 the place of a solution of pepsin was introduced into the peritoneal cavity
 the stomach & intestine, neck cut, abdomen opened, lots of intestine drawn out
 a part isolated by ligation & cut thus just beyond them. All the lymphatics were
 cut through & all the arteries & veins in the mesentery except one pair tied & closed.
 Small loop was connected with great splanchnic nerve, the single artery
 and vein upon this introduced of full effect. Other experiments show change
 of veins other than intestinal. In the leg for example all the veins were removed
 and the artery and vein, & person had the same effect. In another case a
 quill was introduced into each vessel, head & the vessels divided so that no
 communication but the the quill. Process goes on all over during & hours after
 we have on one hand abundant matter in a minor vessel liquid & solid
 the density of solid is much less than that of the blood, and on the other hand
 there is the blood of high sp. grav. & temp. & in rapid motion, while believe the
 to be an enormous extent of permeable membrane, forming the capillary
 walls, no condition could be more favorable. Experimental test of capillary
in stomach & into chief agent, strictest in respect that the blood in them
 must be a most favorable, in stomach & in fact in colicidal cut
 what are the chief substances absorbed by the veins? soluble matters of every
 description are taken up, provided they are diffusive in a capillary & readily
 diffuse & other can be detected in the veins. Albumen is considered
 diffusive for a colloid into a capillary. Veins absorb most of the
as such as & others of this nature matters, all the alcohol, the greater part of
 the albumen. The lactals absorb nearly all the fatty matters, the unman-
 der of the water & a small portion of the saccharine, sodium saltman
 & etc may also find their way into the venous system and it is held that
 some of the superficial capillaries present give an pale cast whatever
 the quills of cutaneous

Secretion, what understood by it. a process in our organs & body whereby
 certain mat. are separated from the blood in a fluid state either to be
 some special purpose or to be. The form could see the with.

Examples. Substance out of which the secret are formed do not present
 the agency of special cells. Solid matters also bear a certain similitude
 the constituents of the blood or may be only modification. Even in the case
 of a mineral part of the secret, as the pepsin, an but a sep. removed from
 all proper. In some, as pepsin, the fluid an compound of the blood breaks & the
 fluid altered perhaps of undeliberately. In 4 grad. percent see not prop.

and an angle different. Most of them have a very simple structure
architect. an unorganizable, with strong tend. to crystallize, and
plentiful in form of acid bases, once solid and, usually + phosphates
if they are not up to us but allowed to accumulate. Sometimes however
found in the another organ, a some of acid for by skin, they never
seen in a true secretion. Because, certain skin kidneys
increase when one organ performs function of another call Metabolism
what are the for secret meant in sex + skin. Lessons membranes

Arch. Pleura. periton. pericard. + 7 vas. testis + as a web. Diagnosis
d membrane, small, spoke of a short sacs with except of perit. but can
and see as dorsal sympathetic system. Does a sac exist in all cases,
more in ear + pleura, in others a curved space + int. Some of skeletal
caps. contain a little fluid. Structure Epith. a mixture, ^{high} of
epith. cells squamous, polyhedral, nuclei often placed eccentrically, many
unusual, Motus crop of plasma and in active tissue, many fibers nuclei
in small bundles, in some places as death more tedious. Blood vessels
caps from a wide meshed plexus, a rich system of lymphatic vessels + some
in two sets or layers. These guard against putrification + smooth soft surface
for the movements of organs. Fluid only enough water to lubricate
the surfaces, much of that found after death has transuded. All over each
side + the ser. for. col. pale ash. 1002-1020 alkali viscid, little colored
phosph. or unmineralized + one of the plasma from food. See entry pericard

3ii. periton 3iii-iv pleura 3iii-vi
Synovial membranes, variable serous surface in general appearance
but as a very gelate fluid clam like white fagg. Fat part present + dense
+ from contains not a few slender fibr. ser. + cart. An epithelial layer not
in outer surface, + dense white + much cottony mat; does in young not in old
7 Eds of the synovial memt. cart. fat + cart. in cart. part + in almost all joints
similar processes on met with Synovial ch. + ph. diff. from serous. More
fluid + contains more white, color + yellow + very viscid, faintly alkaline
viscid due to an organic principle synovial which can be extracted

Mucous Membranes (1) Dephure that much faster than cart. ser.
(2) Respiration, muc. mem. nasal duct + amp. and duct like to can
of pharynx, larynx + 3rd + 4th ventr. uterus, cervix with serous mem.
at end of Fallopian tube in the female. Another device, nodules
of sublingual. (1) squamous mouth lower part of pharynx

Arteries cylindrical, pale with + vagina. 2^o Cylindrical
sharply canal below the cordia. color, ducts of gall bladder, affe
fect. pharynx and nasal passage, stem + Fallopian tube the
side depending part. They run rough - in the tissue serous
but meshed under epith. base + blood vessels, serous mem and
+ many cases vascular papilla. The cap. generally smooth, is with
small nodules. val. con. + with 8 glands or un. simple folia + vacu.
in men of blood vessel. Mucous is varied variable in diff. location
some gelate liquid in others connectid. alkali. grayish white, cloudy
tinted with of adms of all elements. 7 Here in the designa epithelias
+ often can deep th. + normal + vaginal. contains a few body nuclei
in clusters. lidate shape + comb. use prot. + the memt. + thick
but up part for this may have a part in preventing the absorption of
+ the memt. Secreting gland many folds of the membrane
upward, unmodified. 3 var. (1) simple tubular, people of fold of thick
simple wall for memt. may be more canal as in mucous follicles
+ sweat glands also. A connecting duct, but this is in the tub. with
little project + crypts + sides + a network of fibers, ii aggregated
in a sacculus. a mesh of small vesicles + nuclei arranged in
groups or lobules opening into a common duct. They are arranged round
the main branch of the duct into which they open both laterally + + in
be said that the branches of the duct are divided into ducts + glands
made up of a ruled, fibrous tissue. In their class, some in gland form
sub. lach. + mamma, these often + large + the prot. iii tubular
as kidney ducts in these the tubular does + cut into branches, + curled
int. ten sides in part of tissue or in capsules. A base memt. mesh an
cons of compound + der. show that the liver also belongs to this class.
Proces. spermatem, cells the active agents, a few from epithelias exist
+ other antibodies, the only point hatched element in it. It has been seen
that this is found in the cells. cells of the test and spermatoz. cells of liver
like + sly cogn. malle, + those of the kidney, un. a. dected of epithelias
+ ducts also find a thaps + prot. + same tissue in disease
+ ducts to be made here + some spine glands that from membranes
+ some of the part of the unit + that it is account in + by the life
+ the all chief + the part of the part + for the ser. + the der. for part
the process in ser. The view that the cell take up the material

...some only change & death then without making any
change the same as probable. Glauco says at diff but
implying many only active at intervals. Peps. cells in state
of rest - fully in in full. & a gland in force blood pin it in death
under v. blood. but every secretion flow much more rapid
greatly increased, & a high & in pts. The cells in each so small
tho' & cells dense. He found that the blood in the pangs the extreme
glauco arrived with the air & escape of water, and saline acquired
such a transparent when under the greatly increased pressure &
Lubing has shown that even with water when forces in the gland
is greater than in the artery, then that even is not a man full
it takes water after the current of circulation. The over a large chief of
offer the product of cell in death, and a large and smoothly, occur
rather in them or her death, he some gland that can die as
to form in other, showed up for along time. At other as lack
and release the death or entire but at times need water
influence, Securedly of blood, quality, & nervous agencies,
with an even decreased, for a while in air was supply for a rest to
the gland, The uptake ^{from} of quality while more to describe an excess of
any in the blood, what it is the. Inf of open, due to con-
vices of die in supply of blood, consequent on death or withdrawal
of small arteries, the agency of sympathy planned. Mental
nutrients, light in though of food. F. ca will be a death in
Dmann center is also all applied

When observed, described, all absorption thought to be carried on by
them. Magnus experiments. 1st series. after ligation of 7th duct peritoneum
to the place of a solution of sugar was introduced into the peritoneal cavity
the stomach & intestines. Next ext. abdomen opened. large intestine removed
& parts isolated by ligation & cut then just beyond them. All the lymphatics were
cut through & all the arteries & veins in the secondary except one pair to the stomach
which had no connection with any of system came thro' the single artery
and vein. Upon them introduced spirit of ether, ether vapor, & show change
of veins other than intestinal. In the leg far removed all the veins were cut
& cut the artery and vein, & process had the same effect. In another case a
quill was introduced into each vessel, head & the vessels divided so that no
communication but the the quill. Process goes on according to laws of diffu-
sion we have in one kind of animal matter in a river or sea's liquid in the
the density of fluid is much less than that of the blood, and on the other hand
there is the blood of high sp. grav. & steep & in rapid motion, while between the
be an enormous extent of permeable membranes forming the capillary
walls, no circulation could be more favorable. Superficial cut of capillary
in stomach & into chief of open, evident in spots, that the blood in them
must be a most favorable, & stomach & in fact in a substantial cut
that on the chief substances absorbed by the veins? soluble matters pass
descriptions an taken up, provided they are diffused in a crystalline or dissolved
state & soluble in the veins, albumen is carried off by
the sugar & soluble in the true matters, all the albumen, the greater part of
the albumen. The lactals about nearly all the fatty matters, the remain-
der of the matter, a small portion of the saccharine, soluble albumen
Fats may also find their way into the venous system and it is not at all
impossible if the superficial capillaries present quite an open and unobstructed
to the quill, just contained

Section. what understood by F. a process in an organic body, whereby
a certain part, or separated from the blood in a fluid state, either by
some special process or the. The form could see the cells.
Examples. Substance out of which the secret are formed do not present
but see the agency of special cells. Chief matters also bear a certain amount
the constituents of the blood or may be only modification. Even in the
after it remained part of the secret, as the pepsin, an into left removed from
all proper. In various organs we find an assigned of the most breaks of the
fluid altered perhaps & unaltered. In secret secret see not pass

Blood from cattle head of *Aculeon* lice, pp. Richard H. S. Lutz



Two or three like this

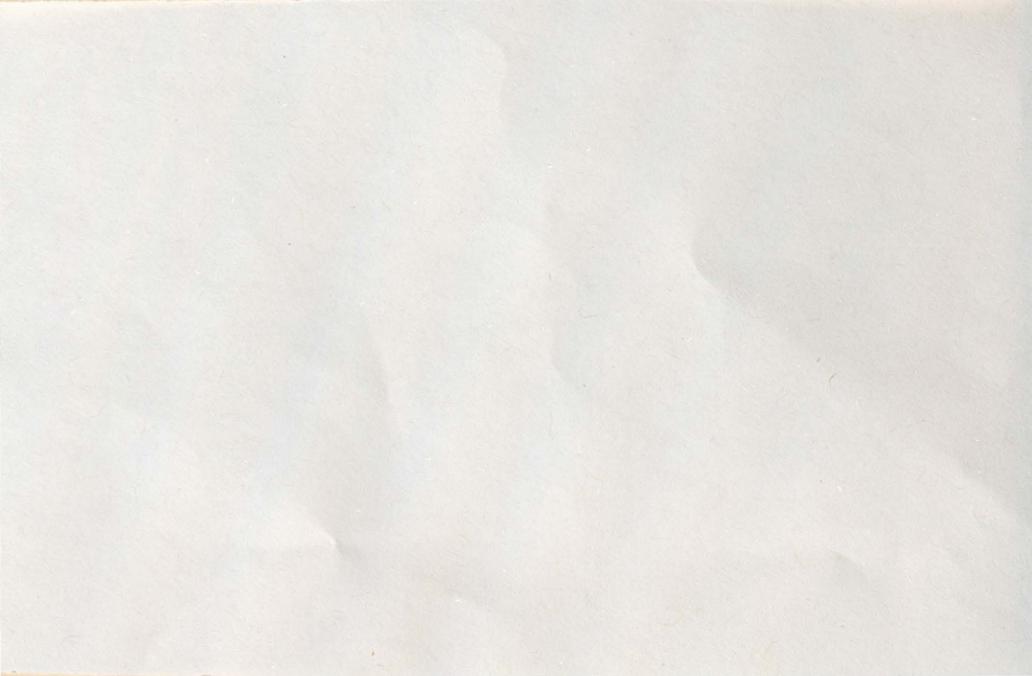
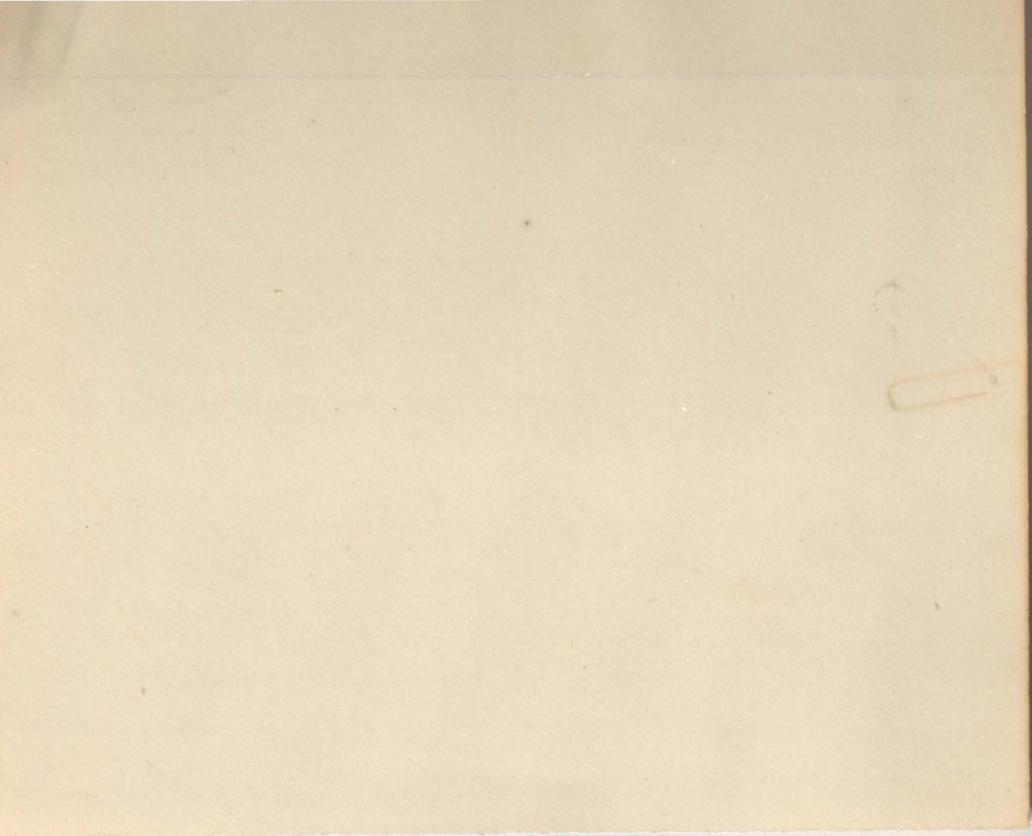
1) Several removed with blood at 11 am. kept in warm stage until 4 pm. numerous
bacteria-like bodies & filaments with short points - not like the anthrax bacillus. Filaments
with spire, remain unchanged - no development in them

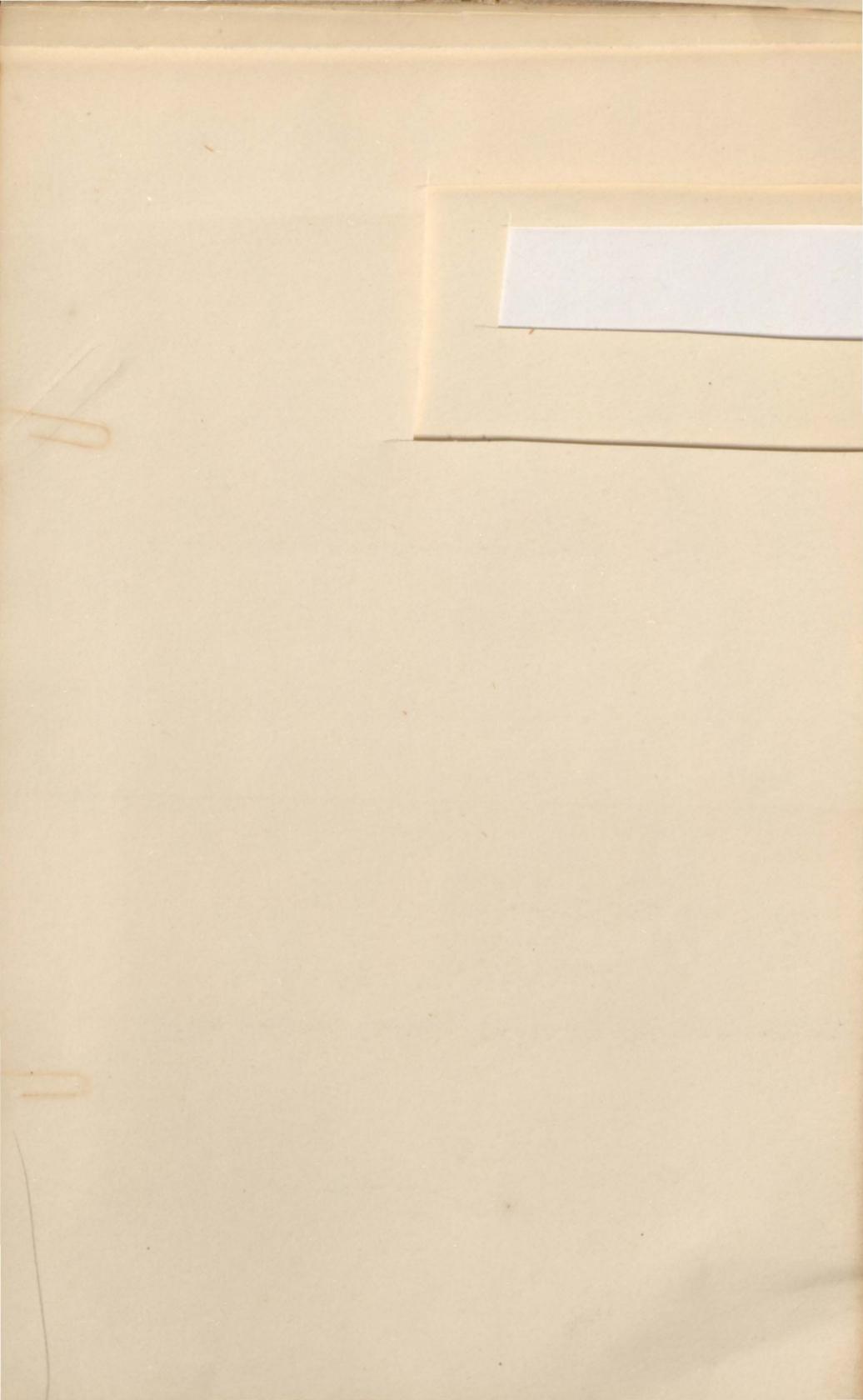
27th. 11 am

incubated. serum, with blood & kept in warm stage.

when put in. decant - see.

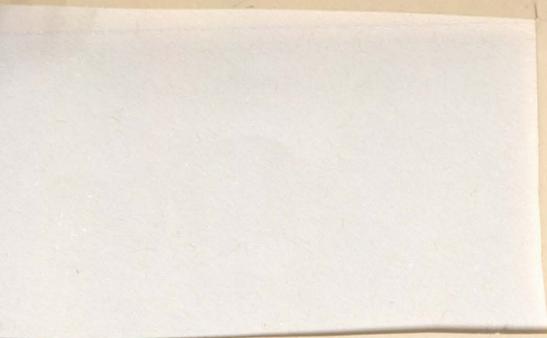
2) group of filaments with spines as at fig 2 above (4) small lat. scattered
in the field like as at fig 1 (3) small highly refractile bodies like small spores
in same grouping small bacilli like *Spirillum* and small bacteria





multinucleated red.

many blood corpuscles, with many



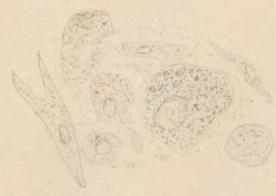
1-6 multinucleated red corp - they are abundant, vary very much in size
most of them have the appearance of ordinary per. net with some
marrow - some at large and some coloured cells are noted. (figs) with
several protoplasm but without a def. nuclei

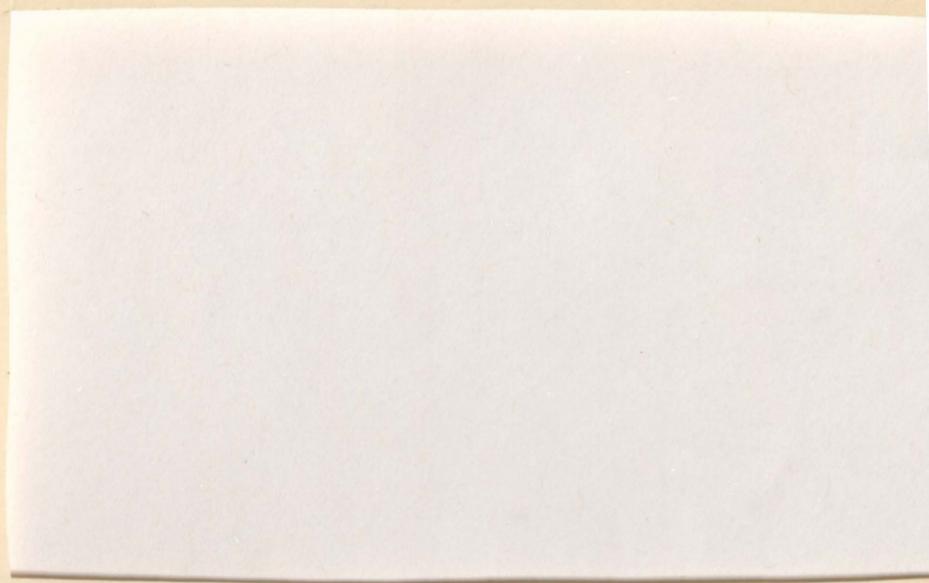
(H)
Red - mostly of one size age, but there are a good many microcytes and
a liberal number of large red ones (figs)

18/10/80

Sarcoma of Brain (Dr. Hodgson) 9.9.H

113-





When large small vegetation appears made up of little spheres
measuring about $1 \frac{1}{2}$ diam of 90002 (with like ink)

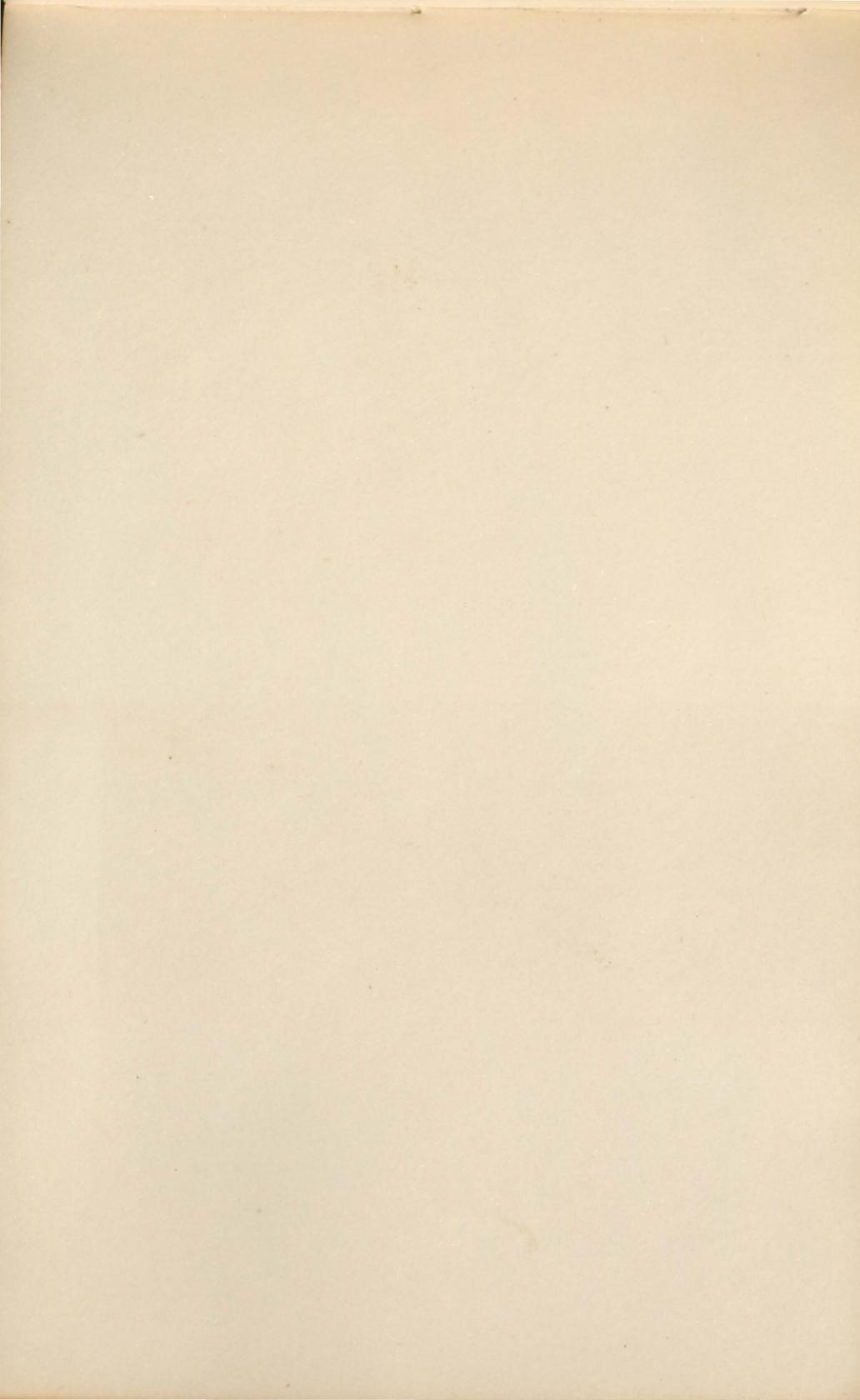
They are disk-shaped, on side have a rod-like appearance, but if seen above
the flattened side. They have a sandy brown color when fresh - some are seen, several
present a darker inner or the darker aspect same over $1/4$ of the disk.
Many are stained with small narrow projections, others are kite-shaped. Some had 3 small
projections.

swan
is faint
discoloration
reflex
disc side
white
small

movement gliding but thin and not for wide
leeds, rounded end front
Turned a constant over



same
very small
body, little or no
very narrow, ends
of undulating, transverse
not like a bacillus
curved very slightly for the
is not long of a red organism



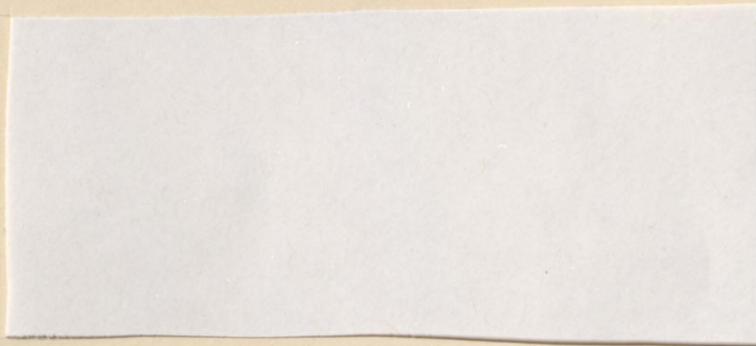
Ulcerative Endocarditis. D.P. case 6/5/81

Large capsule-like mass at edge of section, measured
30 X 25 div. (no 9+ cyp. th. tube cut)

another one measured 36 X 25 and is very dark with well defined
margin & a rounded ball-like structure embedded in the tissue
to which in fact has no definite boundary with the muscle/gumma
from the outer limit except at one side where it appears bounded
by a portion of the tissue

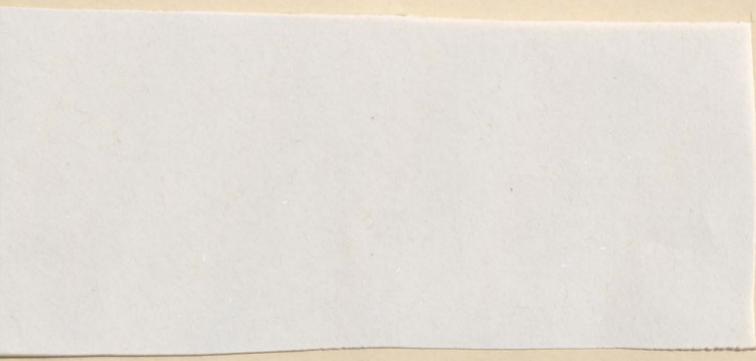


2/2/83 small early, cystic umbilical fold in umbilicus filled with
an umbilical fold of membrane.





from scraping of large carcinoma.

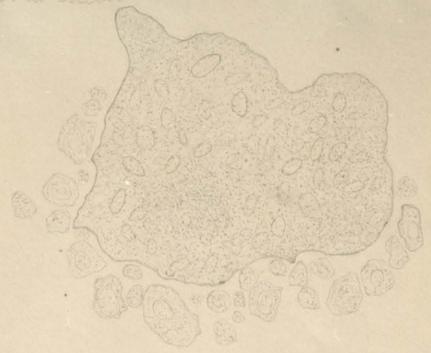


Case

905

Small tubercles size of 0.001 found at - per apex of lungs -

Near base series of cells as figured below extending over 4-5 fields of no 9 with remarkable highly refractile bodies in them



Giant cell. 45 x 35 (mic) very fine, granular, innumerable small nuclei some very distinct, others indistinct. Surrounding it numerous small tubercle cells of various sizes, both nucleated & non nucleated



Spitzbergen of skin: P. Nordack
No. 4266a



Transverse section of - 2 x 2 cm elevation of 1 cm surface
 reddish, irregular, not much preserved.
 Surface - made up of flat cells - flattened epithelial scales and
 papillary subepithelium containing capillaries.
 deeper parts contain nesting cells, but numerous, many possible
 cells - papillary irregular.

ce. sea urchin
from mt

24/7/79



cells with vacuole + solid cell inside
protopl. of body homog. from gran



N. P. gran. med. hom. prot. coloured flexible



cell body not col. but homog. nucle. larger
in protopl.



clear homog. body protopl.



cells with homog. nuclei, small rim of
body protopl., which is not granular



Three cells close together cell with
granular nuclei + homog. body protopl.
1 & 2 not coloured 3. distinct, coloured



solid nuclei

red corpuscle

a prod many of these
cells not appear to have
a soft protopl. free in the
field can be seen solid looking high
up and bodies very like other nuclei

1897

Blood from spleen - . . . macrocytes with pale spheres adjacent to

• oval disc body with two solid-looking bodies - white colored?

• macrocyte adherent to a col. sphere

le. 8 x 6. chroma coloured, contain two coloured corpuscles
and between them a small vacuole like space - subgranular

find.

order same solid looking other
smaller ones in the blood
hardly granules most

From lymph gland . 20 x 12. Short cells in vacuole like space
in interior



1897

