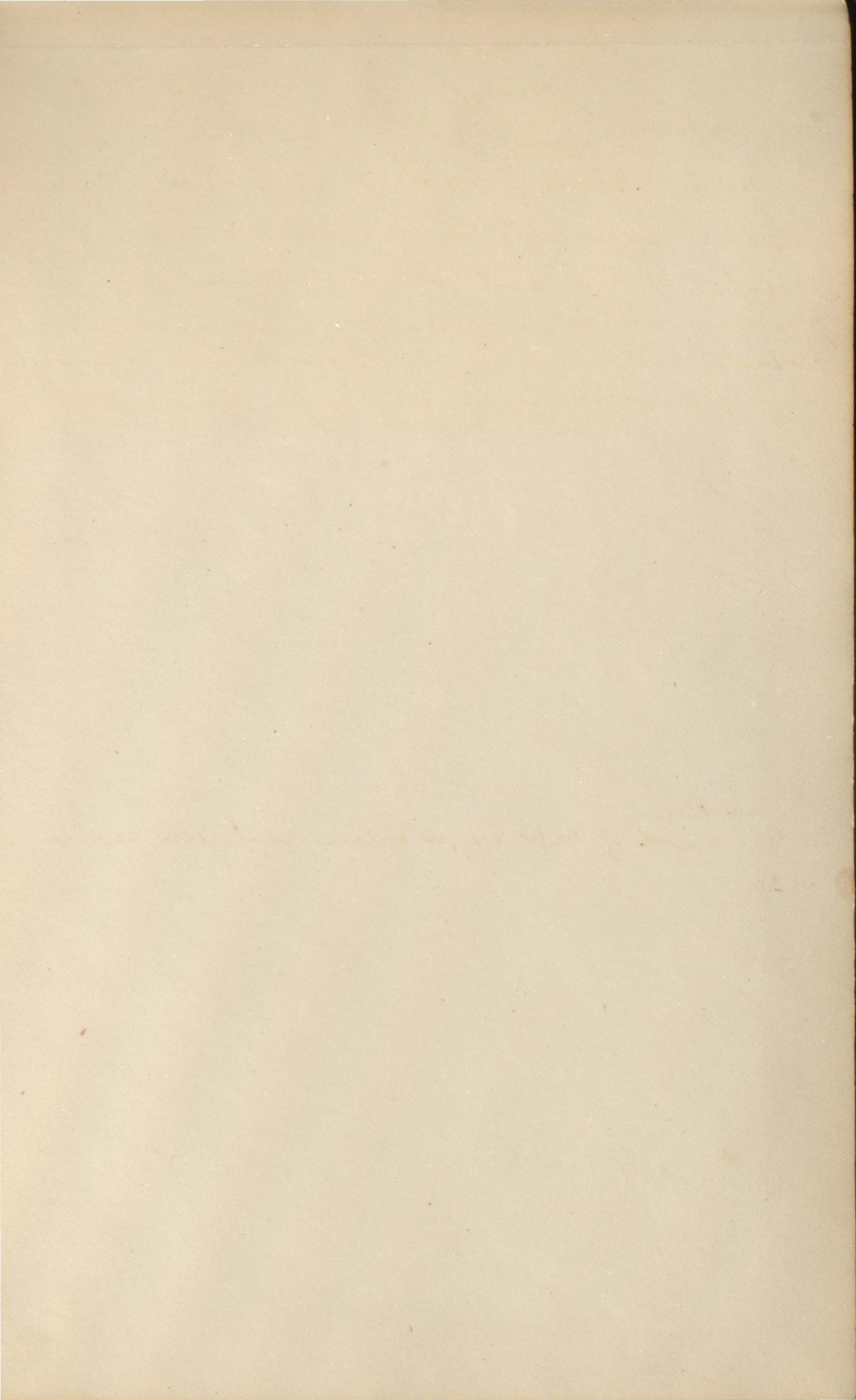




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Ms. A.  
45



# Anthrax

Cultivations. Wednes. 15-

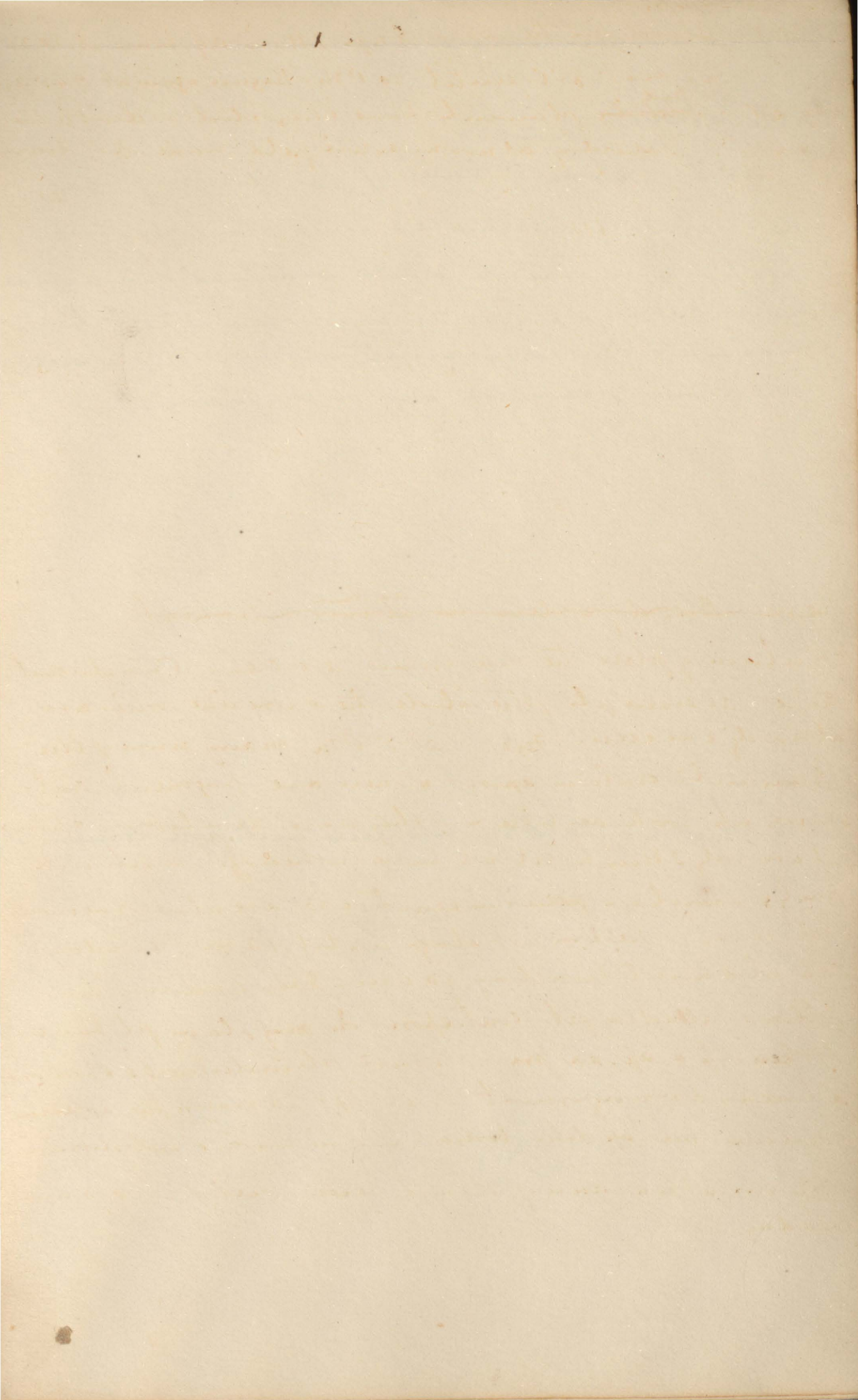
No I Blood of Expt I in serum of egg.

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.

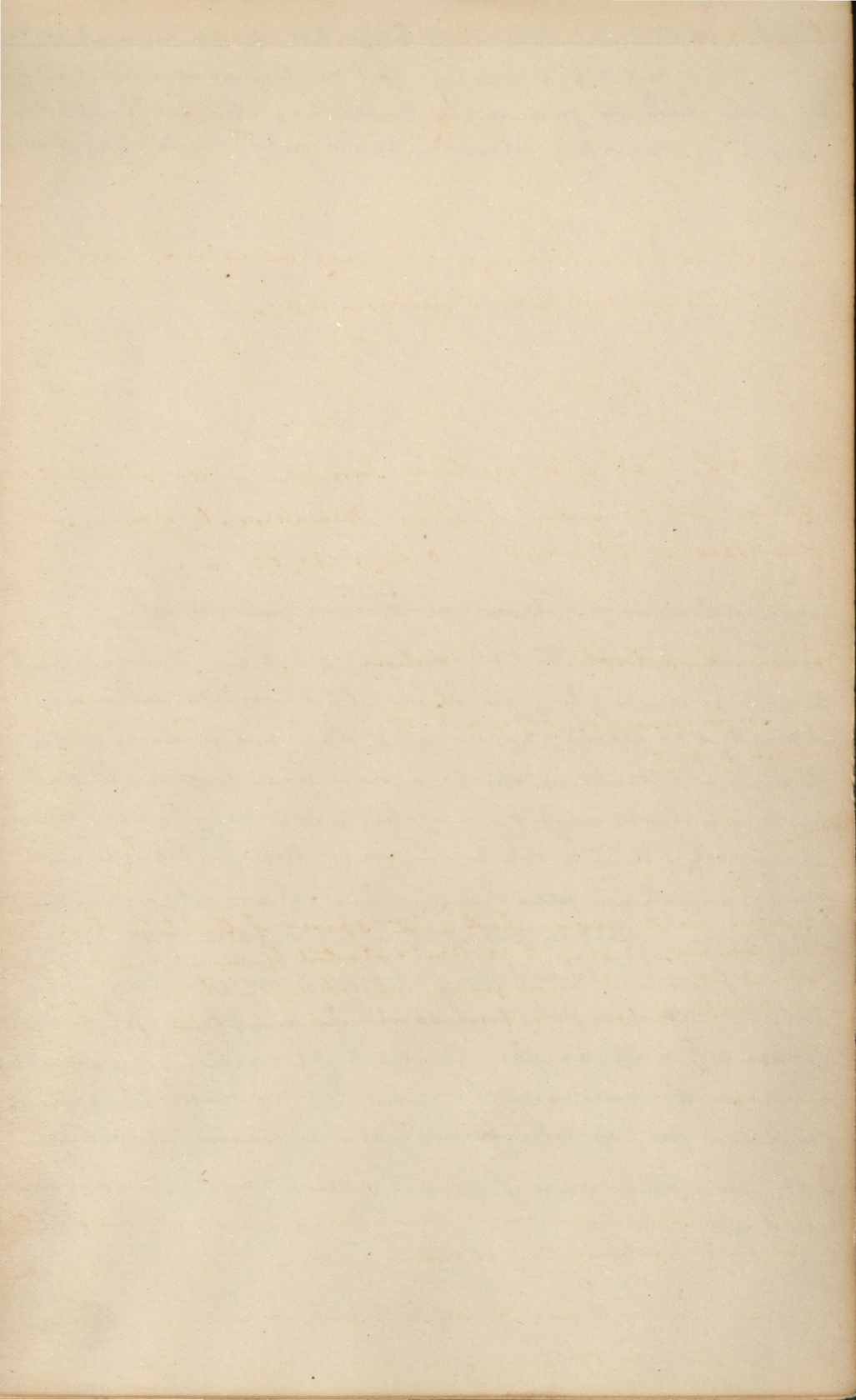
at heat 85°C. until 10 P.M. Began again at 9.45 am.

By 5 P.M. <sup>fresh</sup> filamentous plants have elongated & double their length. Saturday at noon. entire field made up of dense



~~No VI. Blood specimen in - ag. hum. - at heat:~~

my column of filaments the many 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 cent. spores, which look very like as if they were developing spores but are only I think bits which 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 all cent. spores. In many places fil. have broken up & sp. are free. in others fil. undisturbed & sp. have a linear arrangement. at (4) an drum 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



Aquarius. hum. inoculated with spores of *Cultiv. ten V*  
27th. Nov. 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 *Urethra* & 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 place.

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, <sup>for</sup> 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. 29th.  
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. Incubated 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 sugar 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 no connection with great digestion case, tho' 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  
 & but 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 thro' the quill. Process goes on all over during & hours after  
 we have on one hand abundant matter in a minor vessel liquid & it is  
 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. & 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 collection of  
 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 is soluble in this time matter, all the alcohol, the greater part of  
 the albumen. The lactals absorb nearly all the fatty matter, the remainder  
 of the matter & a small portion of the saccharine, sodium & potassium  
 & it may also find their way into the nervous system and it is held that  
 some of the superficial capillaries present give an opalescent whiteness  
 to the gums. Not contained

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 process can see the with 4

Examples. Substance out of which the secret are formed do not present  
 to us the signs of special cells. Solid matters also bear a certain resemblance  
 to the constituents of the blood or may be only modifications. Even in the case  
 of a mineral part of the secret, as the sugar, an but a step removed from  
 all proper. In some, as spirit, we find an compound of the kind which the  
 blood altered perhaps of undebatably. In 4 grad. percent less not prop.











...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 repose blood pin it in death  
under v. blood. but during secretion flow much more rapid  
quantity 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 center 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 center but at times need secretion  
influence, secretion of blood, quality & nervous agencies,  
with an even decreased, for a center in our inner supply for a rest to  
the gland, The uptake of <sup>from</sup> quality while more to secretion, 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 center  
of small center, the agency of sympathy planned. Mental  
nutrients, light in through of food, Fea will be, a death in  
Innate center is also all applied

When observed, described, all absorption thought to be carried on by  
them, Magnus experiments, it series, after ligation of their duct permeating  
to the place of a solution of sugar was introduced into the peritoneal cavity  
the stomach or intestine, next cut abdomen opened, ligo. of intestine removed  
& parts isolated by ligation & cut then just key out 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 gills, at expiration came thro' the single artery  
and vein. Upon their introduction of diff. eff. other types, & show change  
of veins other than intestinal, in the leg, for example all the veins were cut  
& cut the artery and vein, & process had the same effect, he saw the 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 diff.  
we have in one kind of animal, matters 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 spleen, that the blood in them  
must be a most favorable, & stomach & in fact in a collection of  
that on the chief substances absorbed by the veins? soluble matters pass  
descriptions an taken up, provided they are diff. in a capillary & would  
diffuse & other can be detected in the veins, albumen is carried off by  
the sugar & saline & the true matters, all the cells about, the greater part of  
the albumen. The lactals about nearly all the cells, matters the remain  
of the matter, a small portion of the each one, saline & albumen  
Fats may also find their way into the venous system and it is also that  
some of the superficial capillaries present quite an open end, which  
is the same, but contained

Section, what understood by D. a process in an organ of blood, whereby  
arterial blood, as separated from the blood in a fluid state, rather than  
some of the proper & 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, solid 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 wall breaks of the  
fluid altered perhaps & undisturbed. In solid secret see not pass



Blood from cattle head of *Aculeon* lines, p. Redon H. S. Inf.



Two or three like this

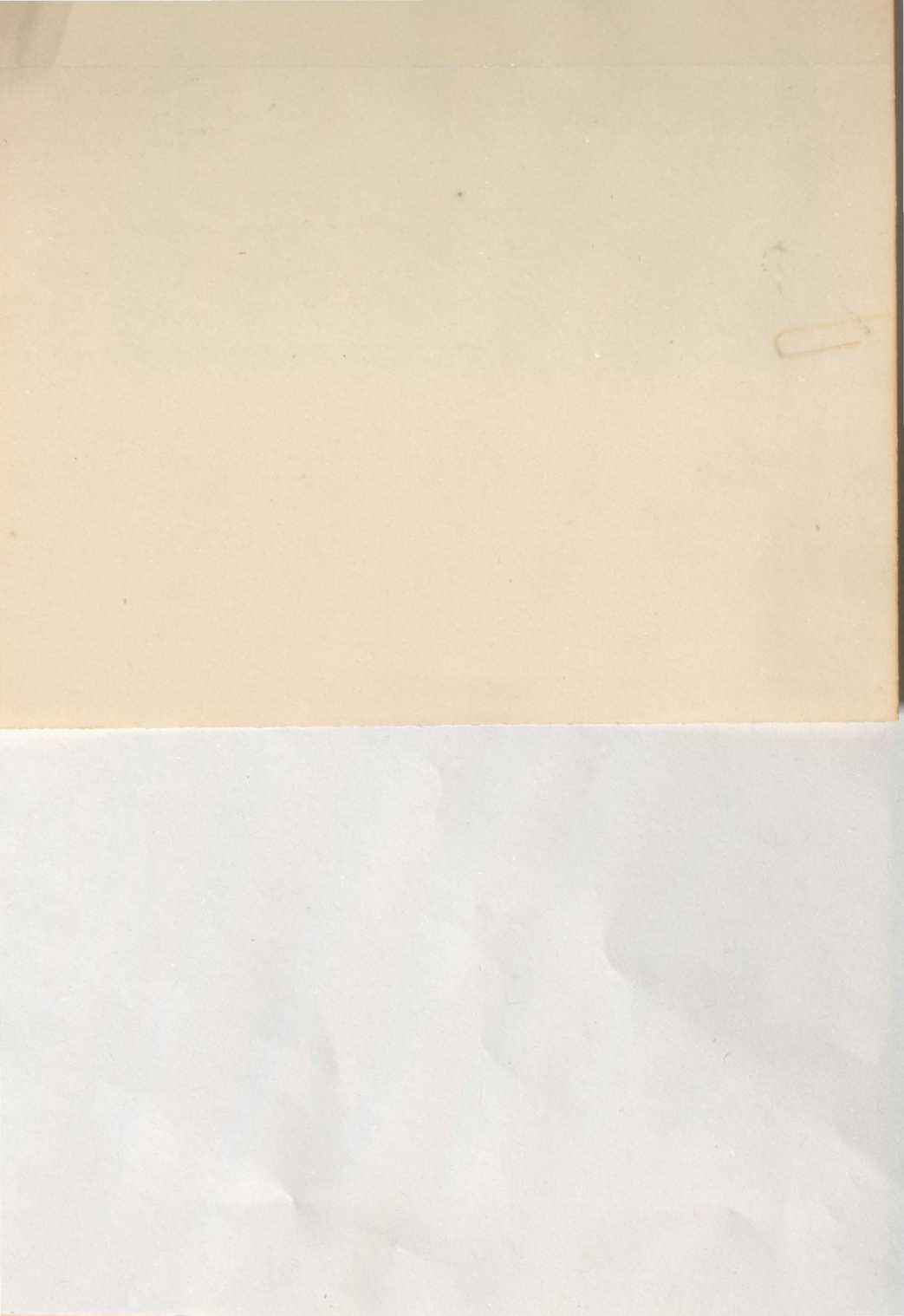
1) Several worms with blood at 11 am. kept in warm stage until 4 pm. numerous  
bacteria-like bodies & filaments with short spines - not like the anthrax bacillus. Filaments  
with spire, remain unchanged - no development in them

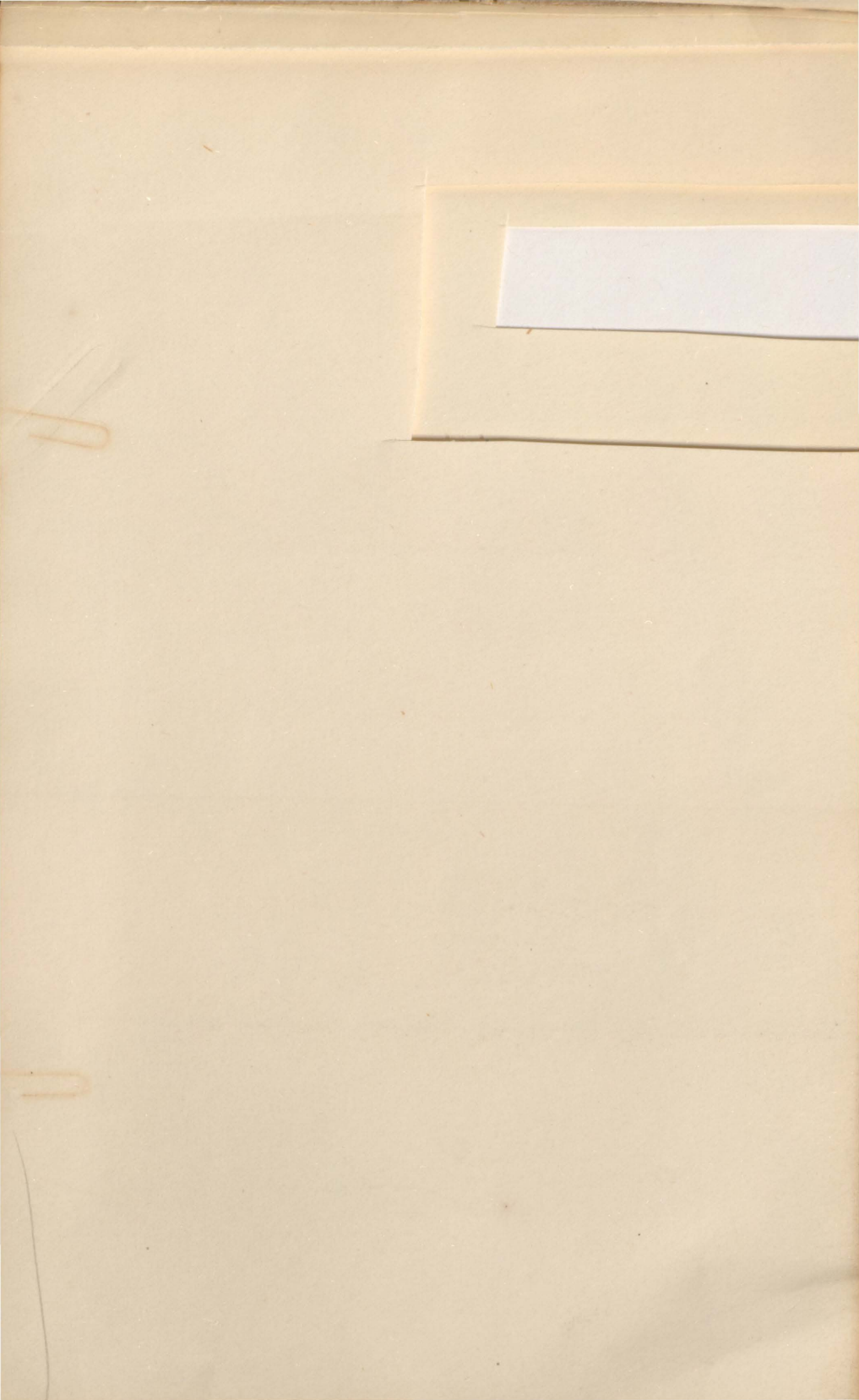
27th. 11 am

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

when put in. decant - see.

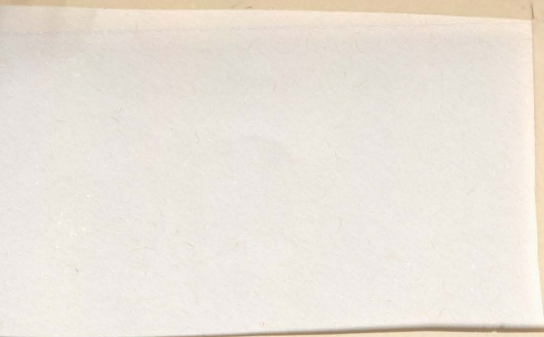
2) group of filaments with spines as at fig 2 above (4) small lat. scattered  
in the field like as at fig 1 (3) small highly refractile bodies like small spores  
in same grouping small bacilli like *Spirillum* and small bacteria





multinucleated red.

many blood corpuscles, with many



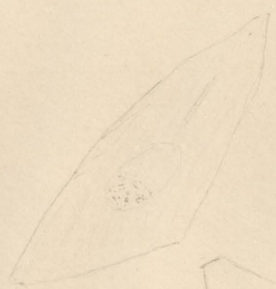
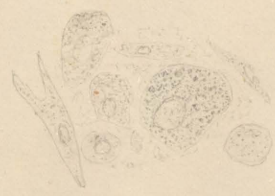
1-6 multinucleated red corp - they are abundant, vary very much in size  
most of them have the appearance of ordinary per. net with some  
marrow - some at large and some coloured cells are noted. (figs) with  
several prothrombin but without a def. nuclei

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

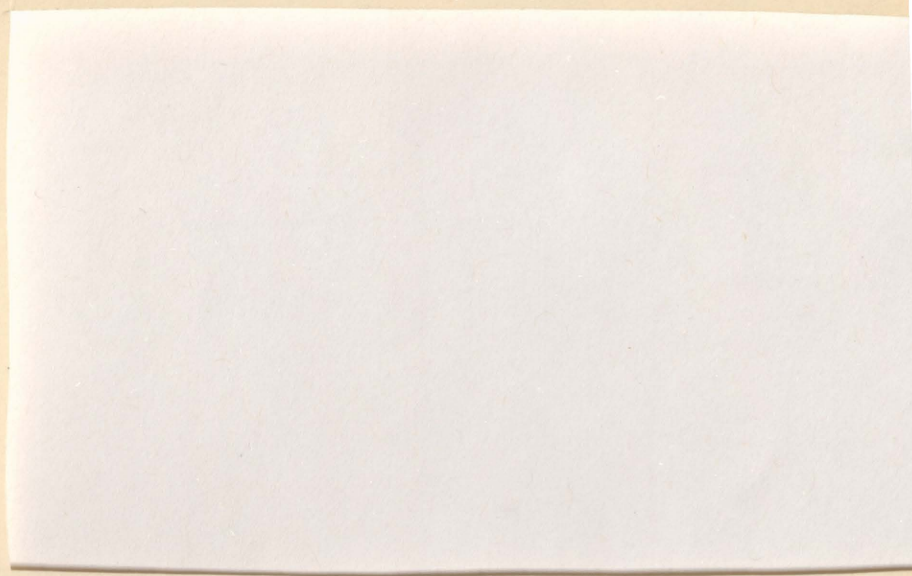
18/10/80

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 - some are seen, several  
present a darker inner or the darker aspect same size  $1/4$  of the disk.  
Many are tinted with small narrow projections, others are kite-shaped. Some had 3 small  
projections.

swan  
is faint  
discoloration  
reflex  
blueish  
white  
small

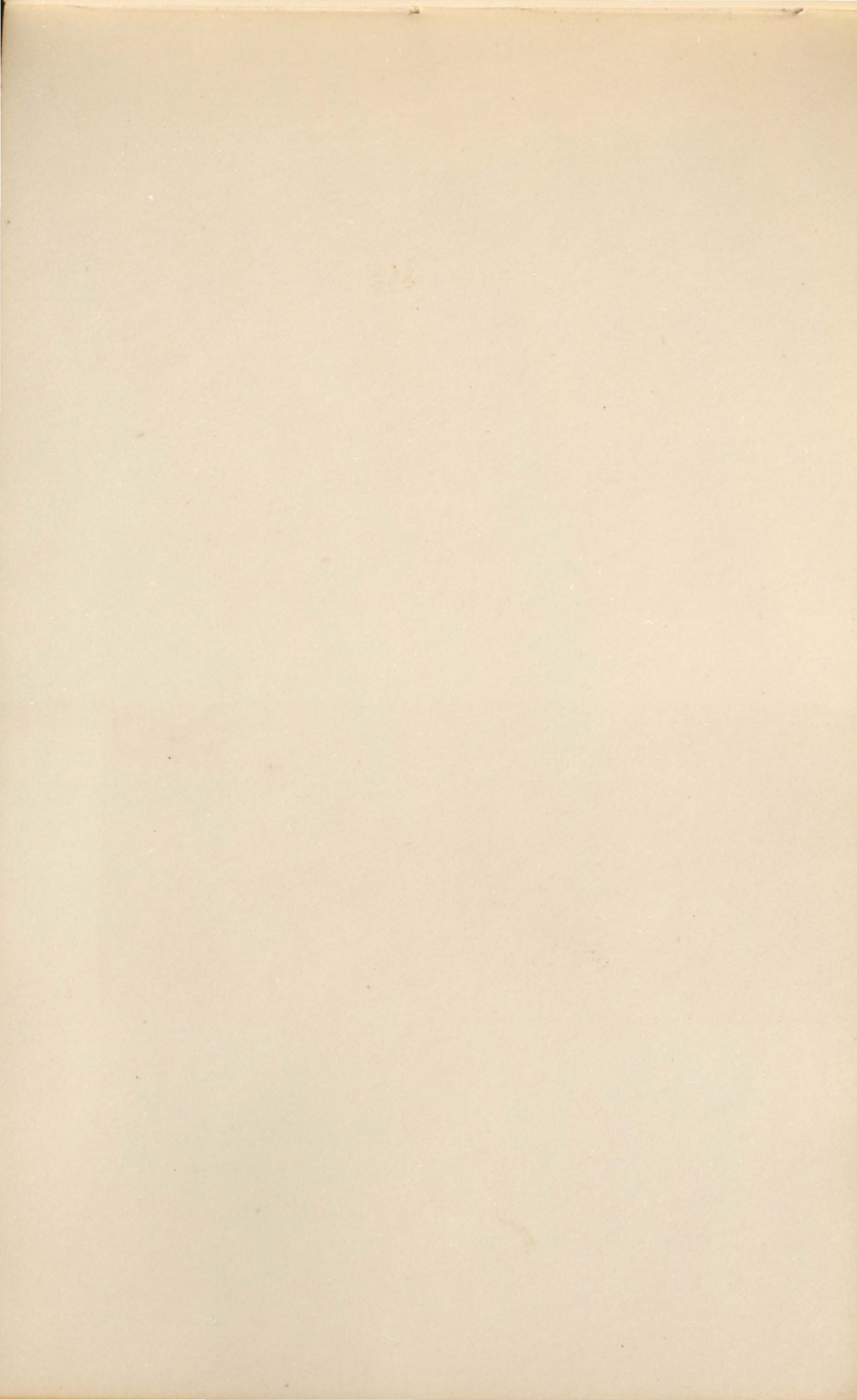
movement gliding but thin and not for wide  
leeds, tinted red brown  
Turned a constant over



same  
very small  
body, little or no  
yellowish, central  
of undulating, transverse  
not like a bacillus  
curved very slightly for the  
is nothing of a red organism





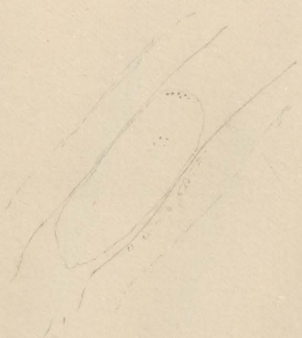


Ulcerative Endocarditis

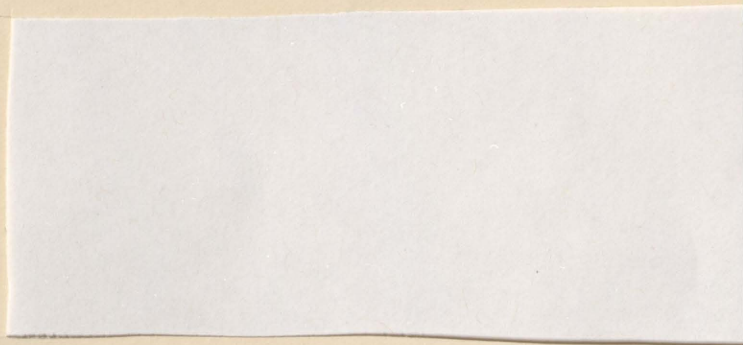
D.P. case 6/5/81

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 granules  
from the outer limit except at one side where it appears bounded  
by a portion of the tissue

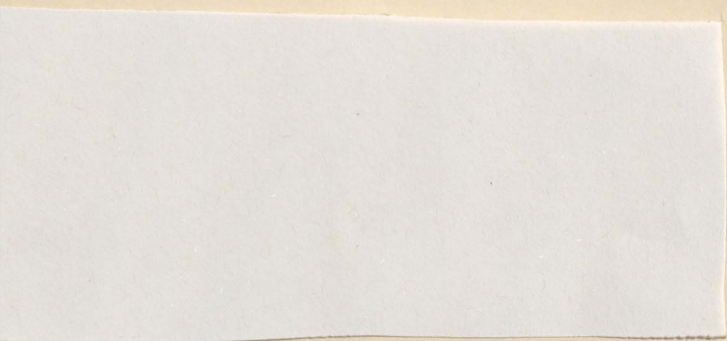
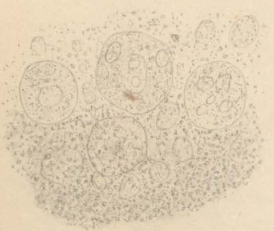


2/2/83 small cells, some with nucleoli, pale in color, filled with  
an indistinct body of granules.





from scraping of large carcinoma.





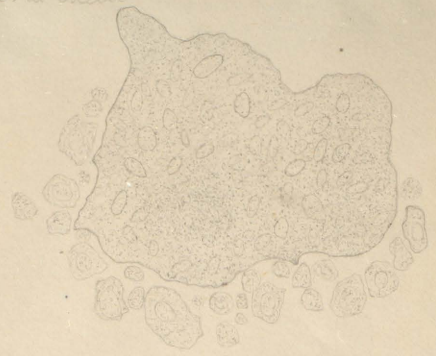


Case

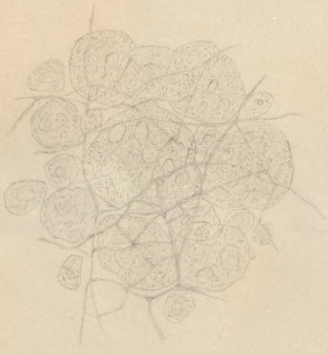
905

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: Woodcock  
No. 4266



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 in growth.

ce. sea urchin  
from mt

24/7/79



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



Pl. Pl. 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 mass of  
body protopl., which is not granular



1 Three cells close together cell with  
2 granular nuclei + homog. body protopl.  
3 is not coloured s. distinct columns



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



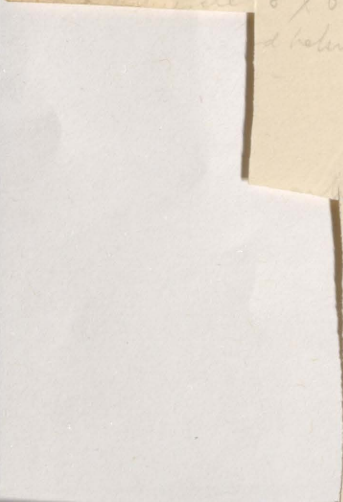


1897

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  
between them a small vacuole like space - subgranular

red.

red. some solid looking other  
smaller ones in the center  
hardly granular mass



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

1111111111





