# Scales, Francis Shillington (1866-1927)

#### **Contributors**

Scales, Francis Shillington, 1866-1927

## **Publication/Creation**

1910-14

### **Persistent URL**

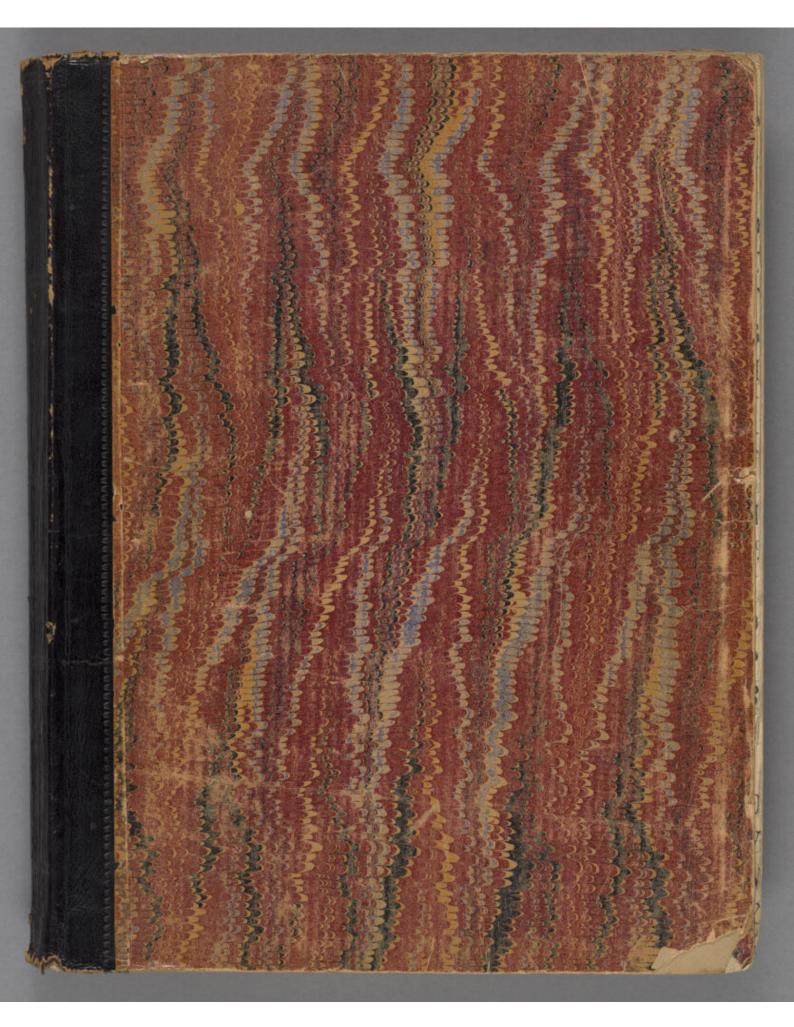
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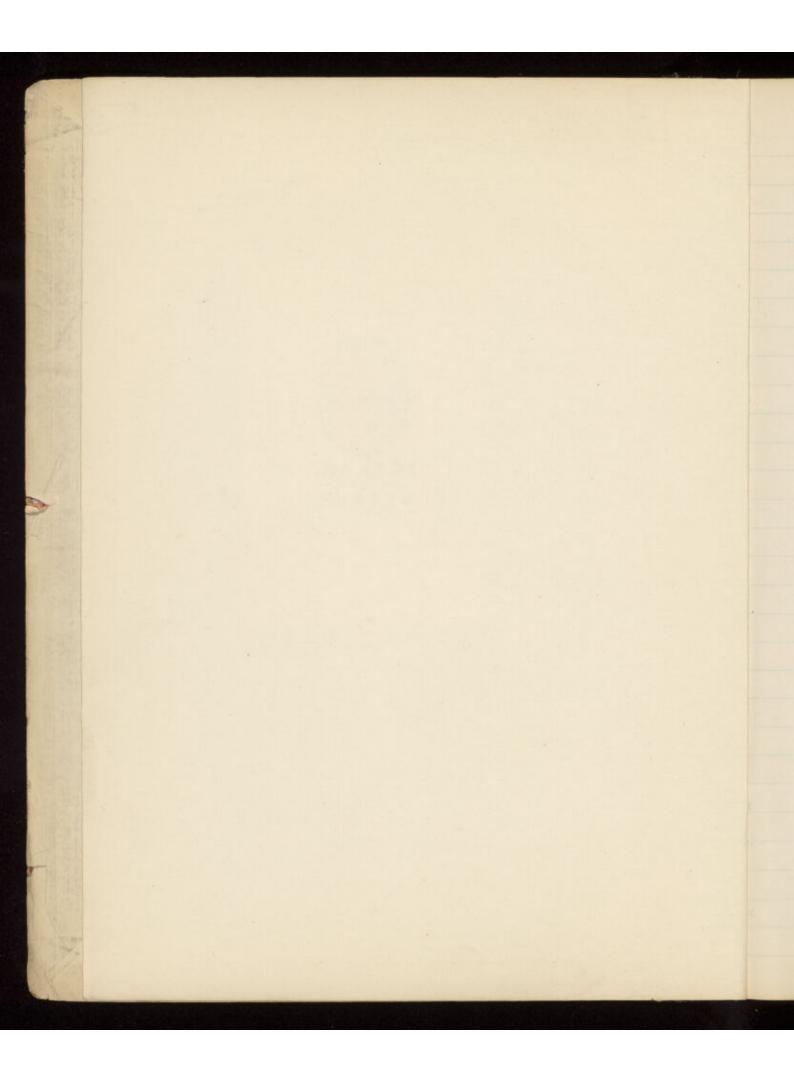
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ABCDEFGHJKLMW NOPRIVITUVXX



ABCDEFGHJKLMMNO P RUFUVWY

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James twicein - am Jul of Med. Seiners. Seft. 1910 (p. 400) Waller Jul Thys. 1884. VIII. 229-234. a demondration on man of Electromoline Changes accompanying the Dearli Beal. Walle. The Rechocardiopau of have tof the way, as down by Sullous Shing falvacionaler. Lanel. 1909. clxxvi. 1448 F G.H. Burch. on a method of determining the value of rapid capillary elechomeler. "Proc Roy Socy. 1890. x /viii. 89." On H J thehune relations of the escensions of the capellary electrometer". Phil . Fram. Porg. Socy. 1892. clxxxiii. 81. K JBudon Sauderson. "The electrical response to shumletin of muscle. Jon Thoysology. 1899. xxiii. 325. M Jennan silver electodes that sall solution. Verestames M 2.8 ohms for fair. Differmer of bolemial 1/2 m/v. Body N recielance 200-500 okus Fine introlois. about 50 fen ses (Pifer) due lo lemmes of P uncles (Ruthover) a downward may be until conhaction of abical files. vanshons withis war we underduck care duch variations in distribution of files in brudle of this. Qui healt always much toffen about. Papelary uncles rystem conhact hefore africal uncle

mass ( Hering. Weber die beginn des Tapier menskelachen und seem begiehrung zum ahronenhikularbrundel, Pfligers archive, 1909 exxvi. 225). Carlied & mod extensine dishrbuhai of film of brudle of this is to fabillary umseles (Lawara - des Reigleitungsystem des Danengelinhugens, Jena, 1906.) forch. The succession of events in the conhachup unbicle, as shown by electrometer records. ( Todoice Freablit). Head. 1910, i. 3. Tulewal behueur R+T does not redeale Cessahon of musculen achily. but that all parts of muscle an equally ashine, I poleulial of base bakes the same. Turully utward, probably due conhaction of basal Jalus not yet brought mb flag ( are folch. lor. cit-) we weightourhood of wellow we are we are and for following arlang), corresponding to ware of excelation following route of original frienden cardiae hely of loven annuals to fendryo. to Kurpu remains of original Australia. Therefore homologue of final conhachon of bullies arteriores in the lower annuals. Height of Rvanin will respeation, being lower in deep insprahon. T is mereand by any agreey which wereas the fore of wentrenlar aystole, as excelion of increased blood pressure. Tuevans ones fegrung skolms diadolie interval. approximates T'to following P, which many reach a foint when they ocen byether.

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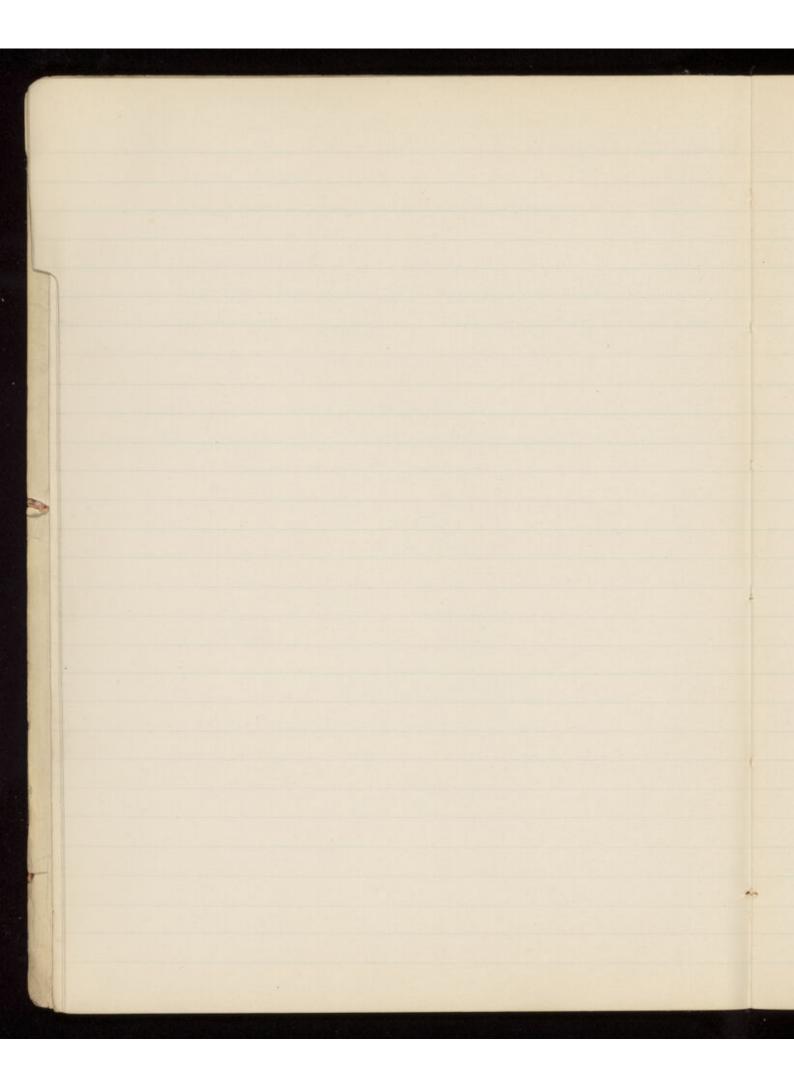
Ga

James Milliams. anne Jul. of Aned. Sciences. Nov. 1910, 6.644 idel, Eschession only of electrical charges due to muscular actuity. movements of blood or mechanical distribunces of values D 0 no duel effect on record. em Character of cure varies with fourts of vody surface from which current is led off. Tanahoiro in foulin of head came marked changes in elicho-cardigam ( Finthoven, Wilers inter das Elekhocendrogrammen - Vfligers andrs. 1908, CXXII, 533). Simlarly, marked charges in number mas affect cever. Still more shiling variations council cli by conhection originality in abnormal situations and am dissumy abnormal course through musels. Lypunoshy of eight wentiels - RI may small in esclentc. cil-M upward, I may be downward, usually the latter in wellorla M marked cases; RIII duckled wound trelaturely of greater magnitude than in normal sulgists. Theready N Typenhoffymmung of left ventricle, offorts condition oblains, RI hely directed upward, toffen of enormous hight, bre P while 12 III is decided downward, propriently 2 cm (2 m/v) a very considerable dreflacement in forther of heart in R chief & lesions of one luib of anneals - ventuents i brinds Graduce similar elseho cardiograms to kypulofly. Styluhoffy of left amiele - in enlain cases of well makel unhal stenoers with good compusation a decided saed mere and magnitude of warm Phashem noticed Cardeae virefularily many remel from variations in Wensely of vagus unewation. Mackengie Shely of the Tules. London o'Clubryl. 1902) boints and that this work frequely

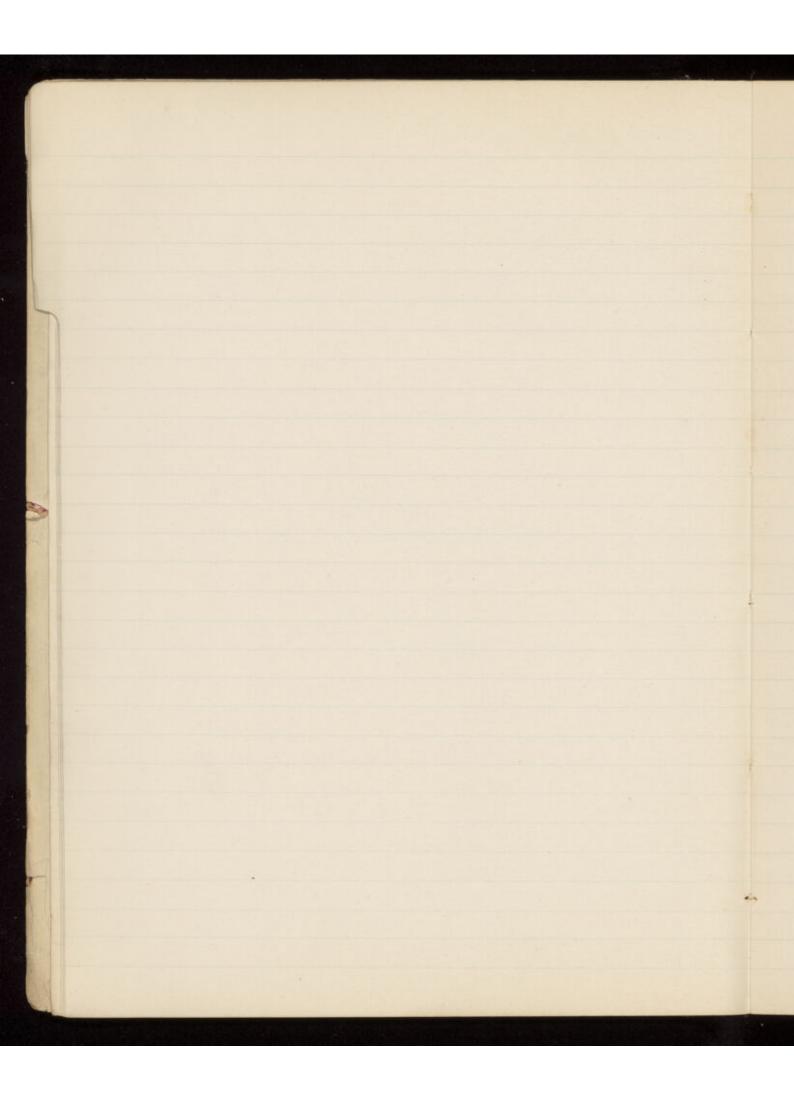
takes the form of an occasional cloning of the online, often occurring at humas of underation, as though it were a reflect merense in vajal umewahon. Eliehocondrojam in and cases shows only lengthening of deadoles interest helmen T & P, wellow other sharps. Ingular acceleration of anneala rythin usually ascentil to occurrence of anneular escha-regoldes. Hy meelugie howing origin other than in succes region (ryulan place of orgin of rythen). ? Why should not sum region organish ormaline beat. Well know that vagal control chiefly affects annels. If occasional merease in shough of vagus lone courses delayed heat. recens maybe his: amend on exha syplole way merely merean heyld of T, rendering it puchaso also more shouldy paked, or trail. Or Purey to remend in premature heats, underding origin of bundone head at a fourt means ventureles than site of normal righer. seculting in mereand Twam. In undirentar exha systeles abjoical contractions very Junally grue pealer majurele of conhadrons. In comfeels heart block en are tround in wentrele Esche ventienta syclotes ineffecture in profelling blood due to head hung emply. Characherstie of cultieness escho explales that they are followed by compusalong former which with escha heat. amounts to hime offus normal eyeles, due to defenduce Inomal unticelar rythen on anierlan rate. The amiente heat following an esche regetele finds the unhiele upackony.

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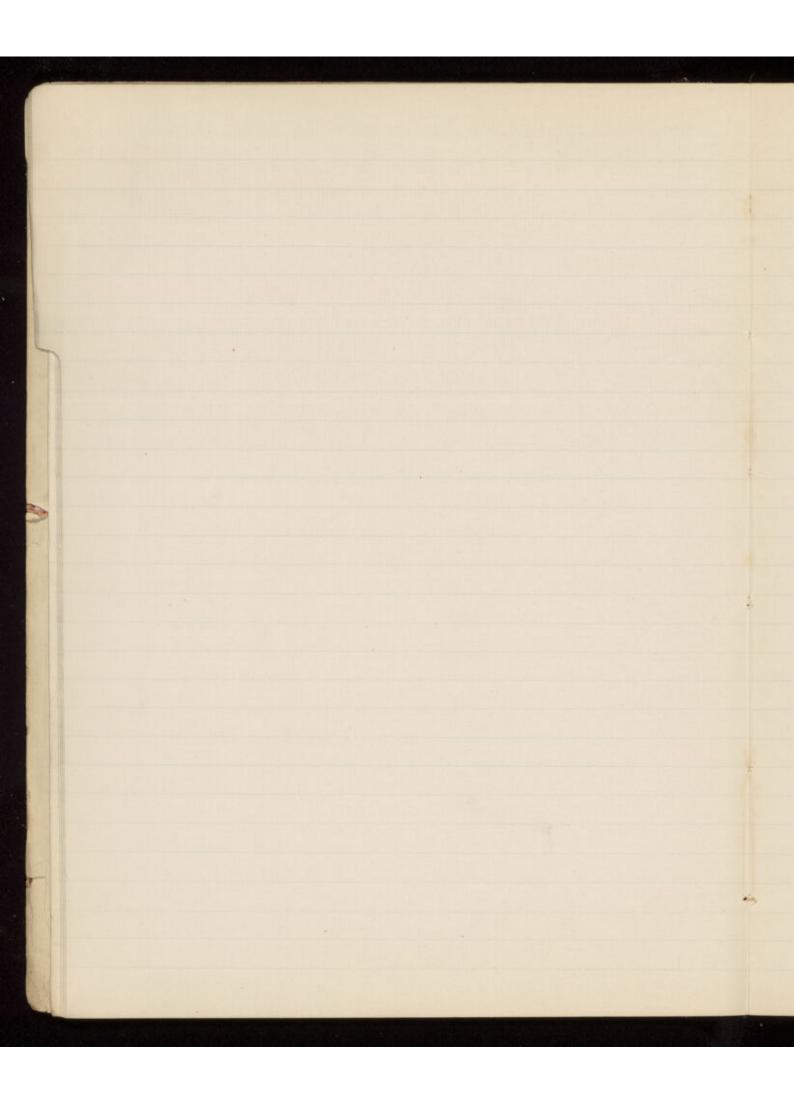
Bigeninal fulse- each allemalithing exha systole. flen wal beformes in highl of large comes scarcely likely behidne to summation. In account of normal lugth of following banes. Popully origin in different parts of neutriels. E hud F ugie all G inch H hof in? J K M M Les N ing P R



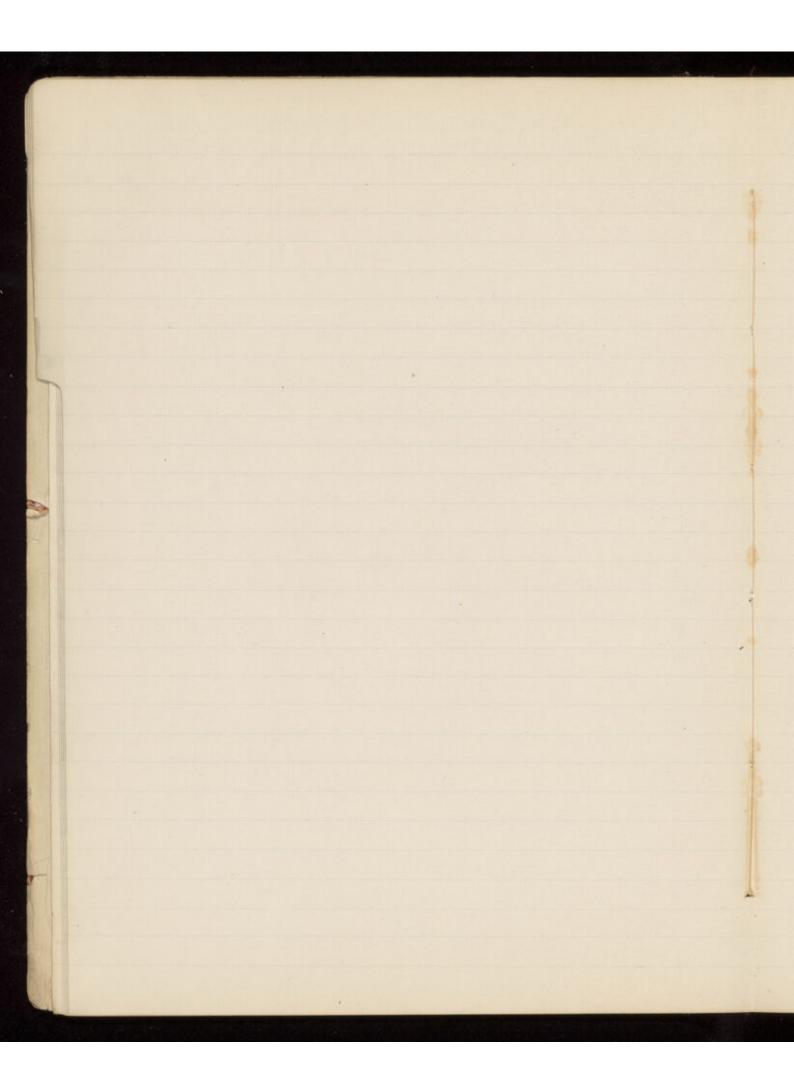
EFGHJKLMWNO P RELUVWY



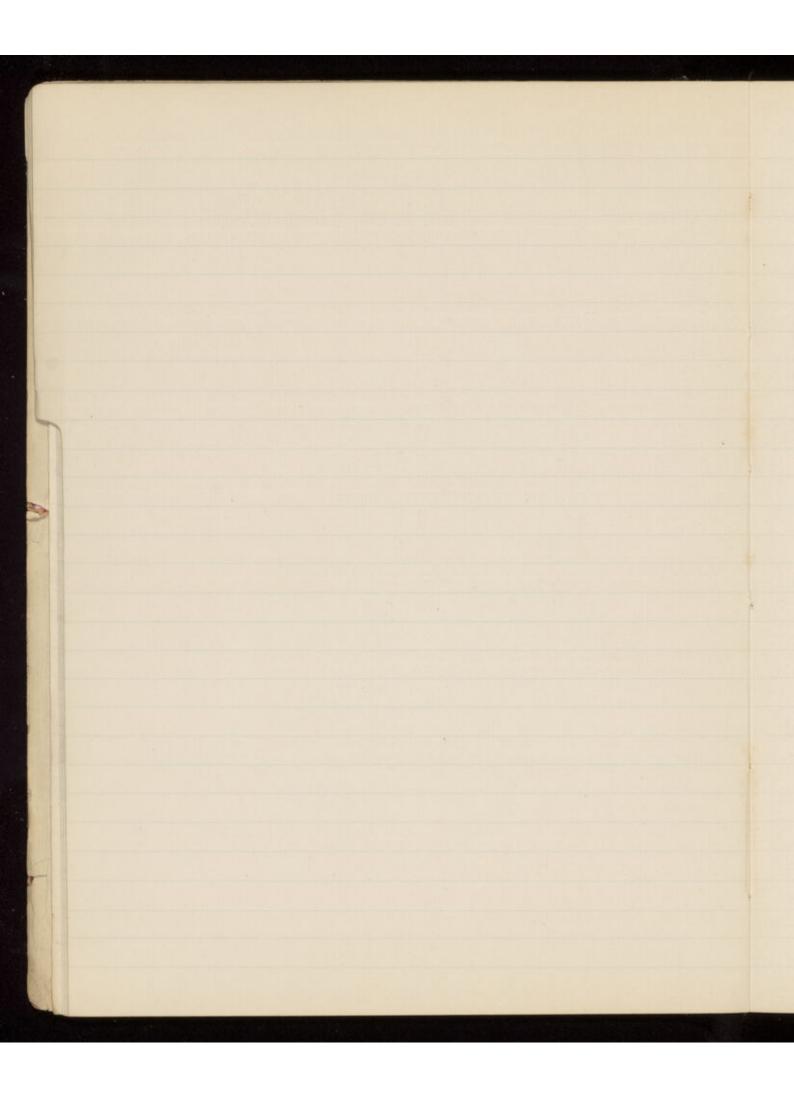
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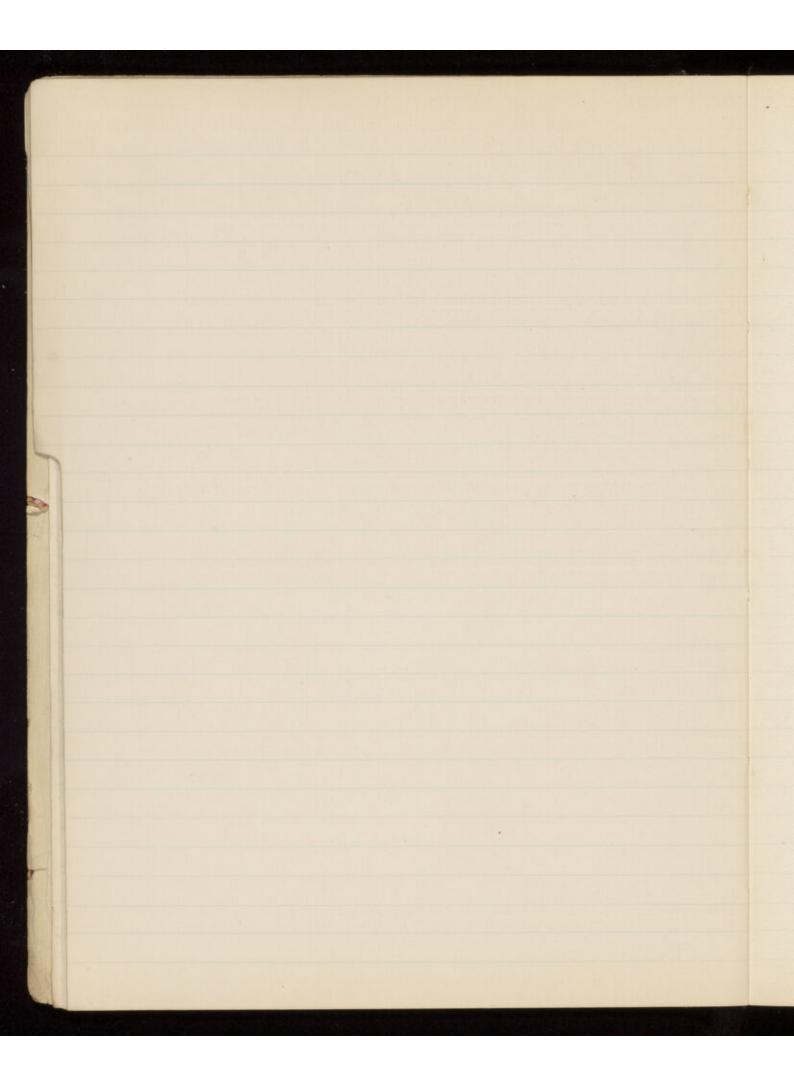
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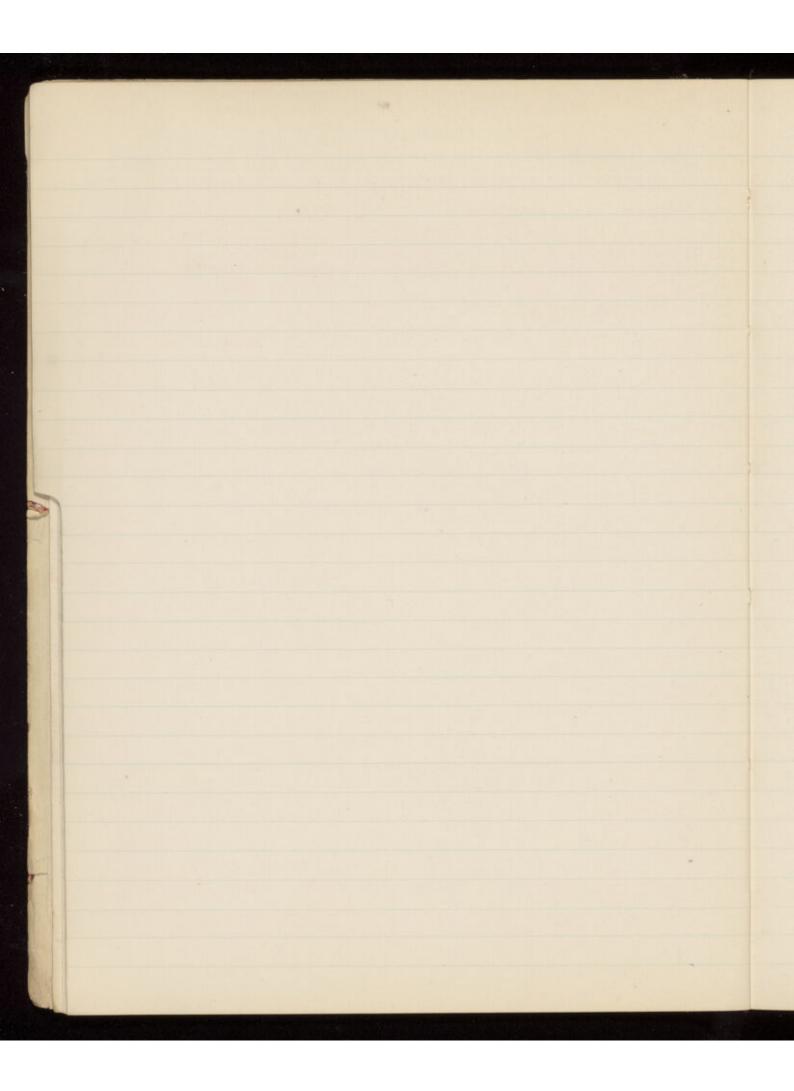
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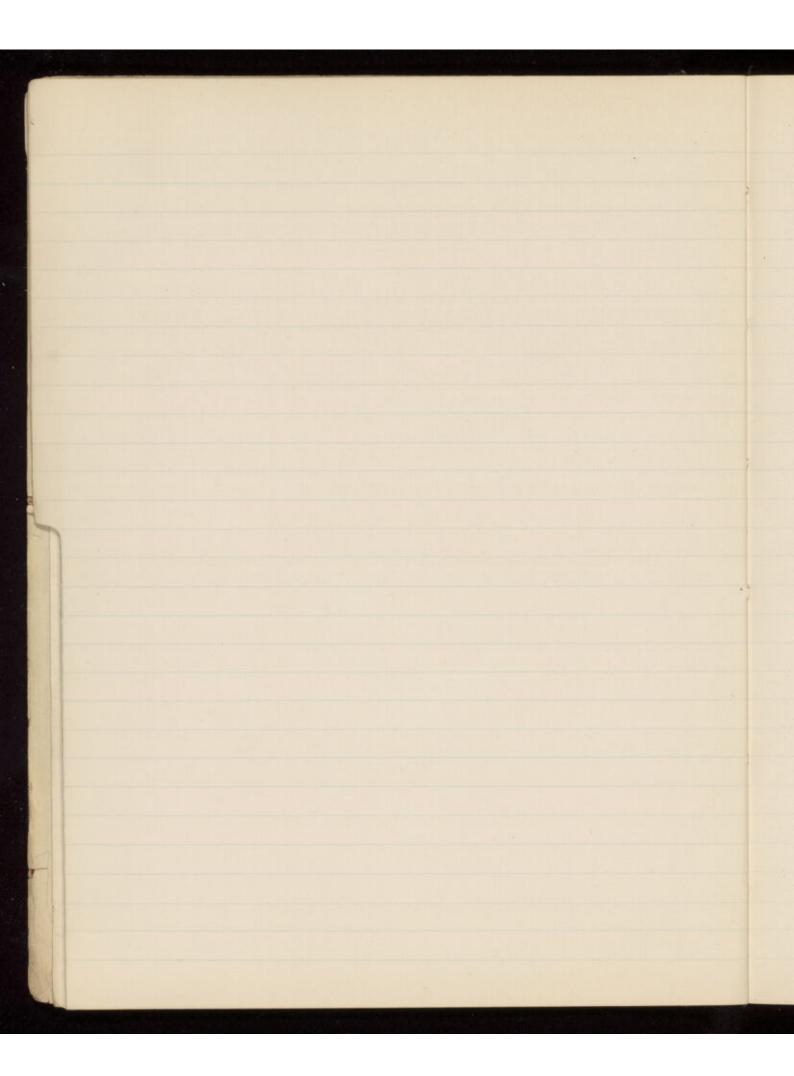
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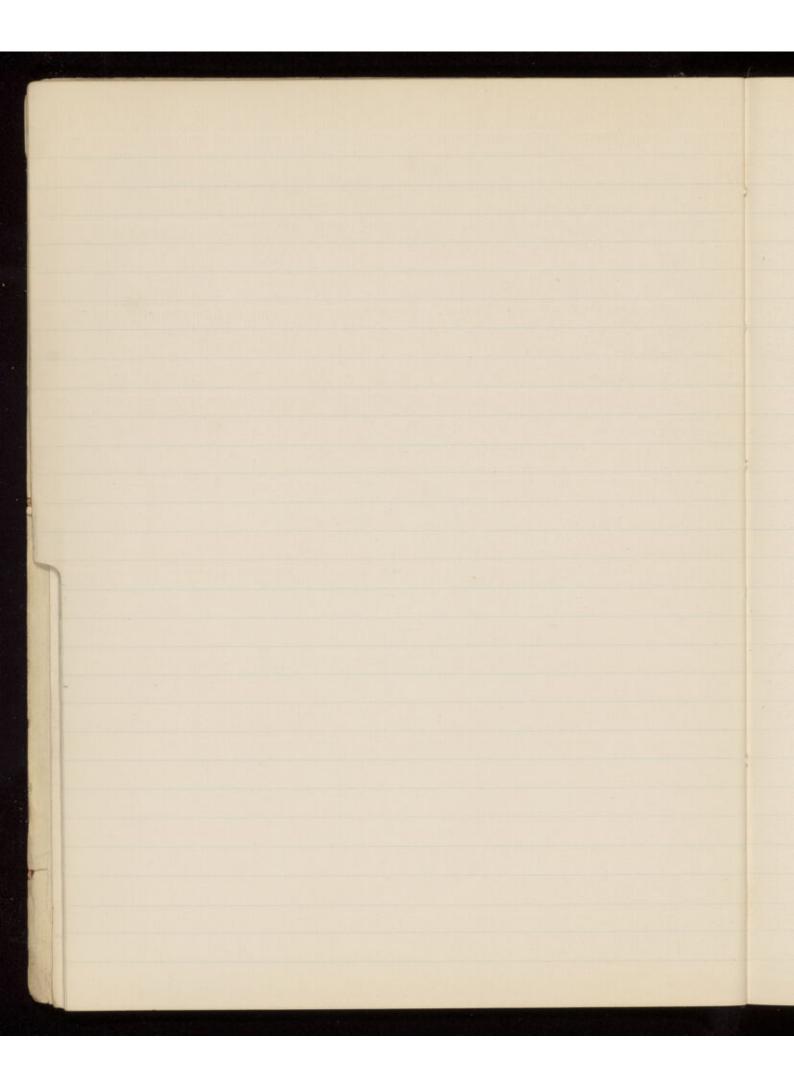
K L M M N O P RELUTIVE



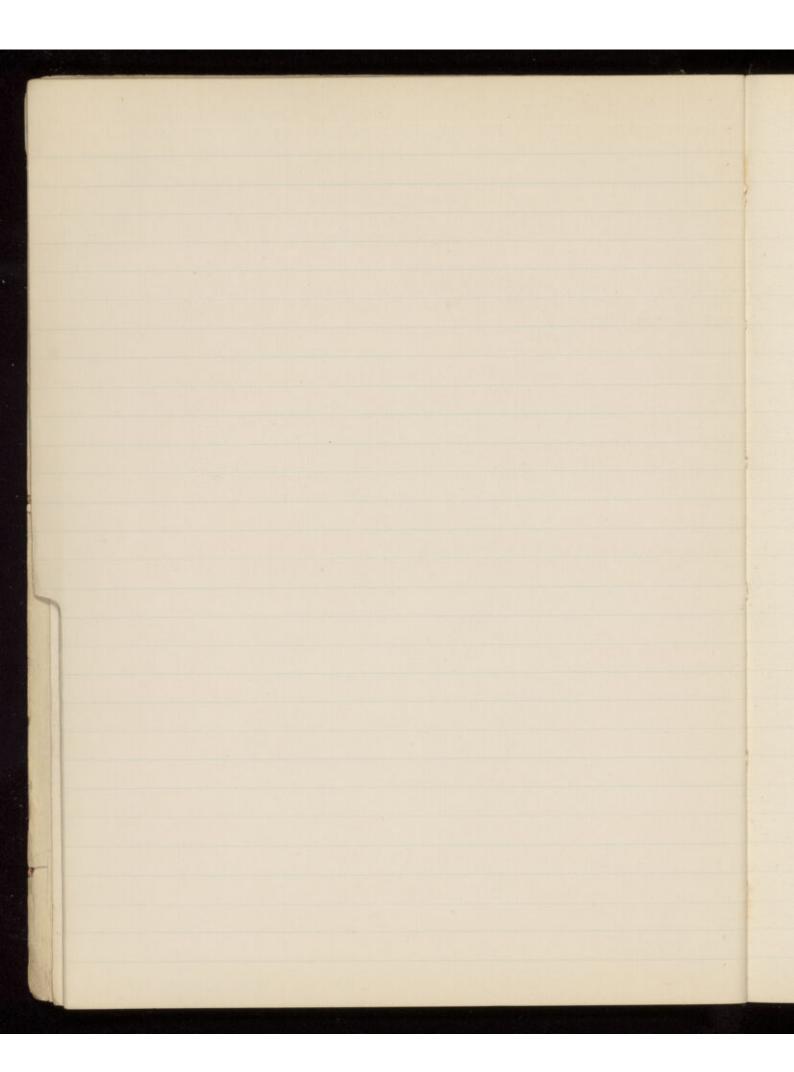
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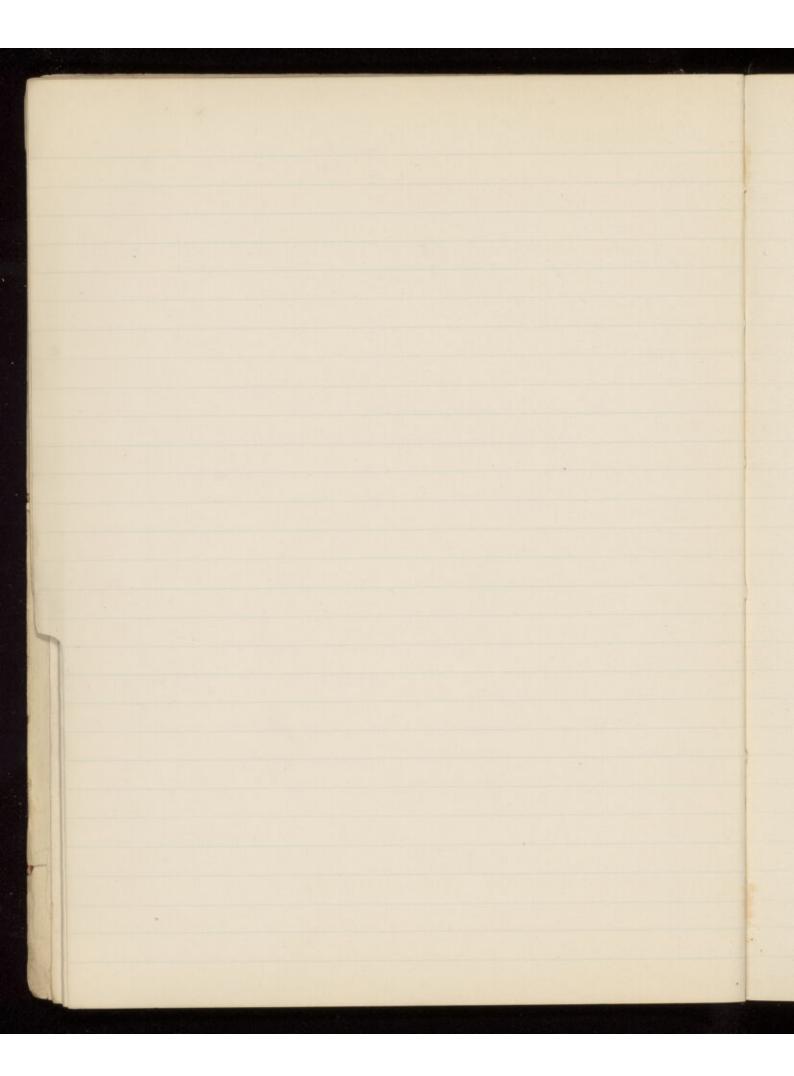
MUNOPROPY



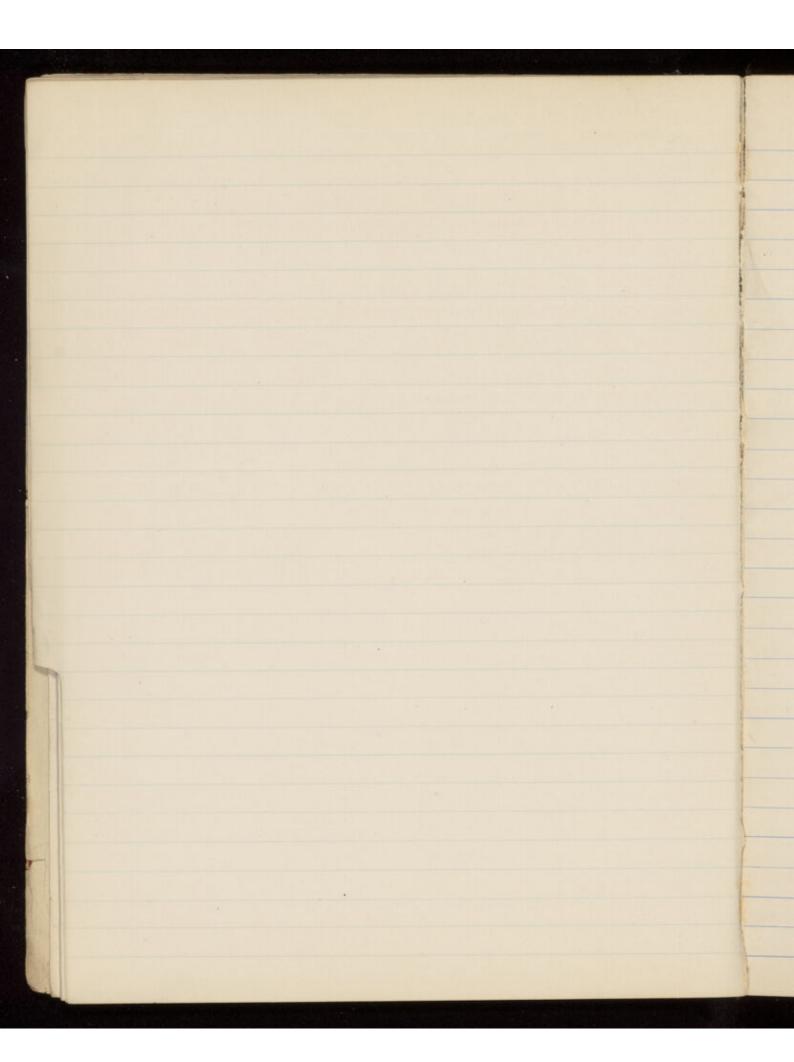
MNOPRVYTY



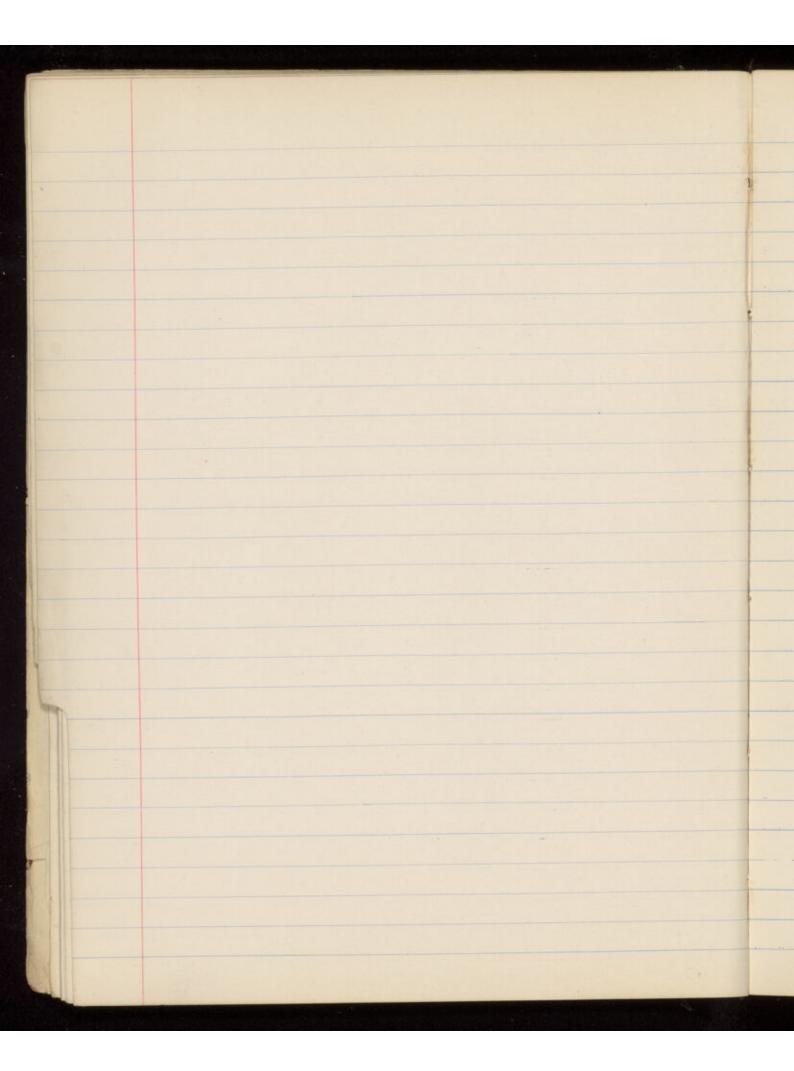
NOPROFFER



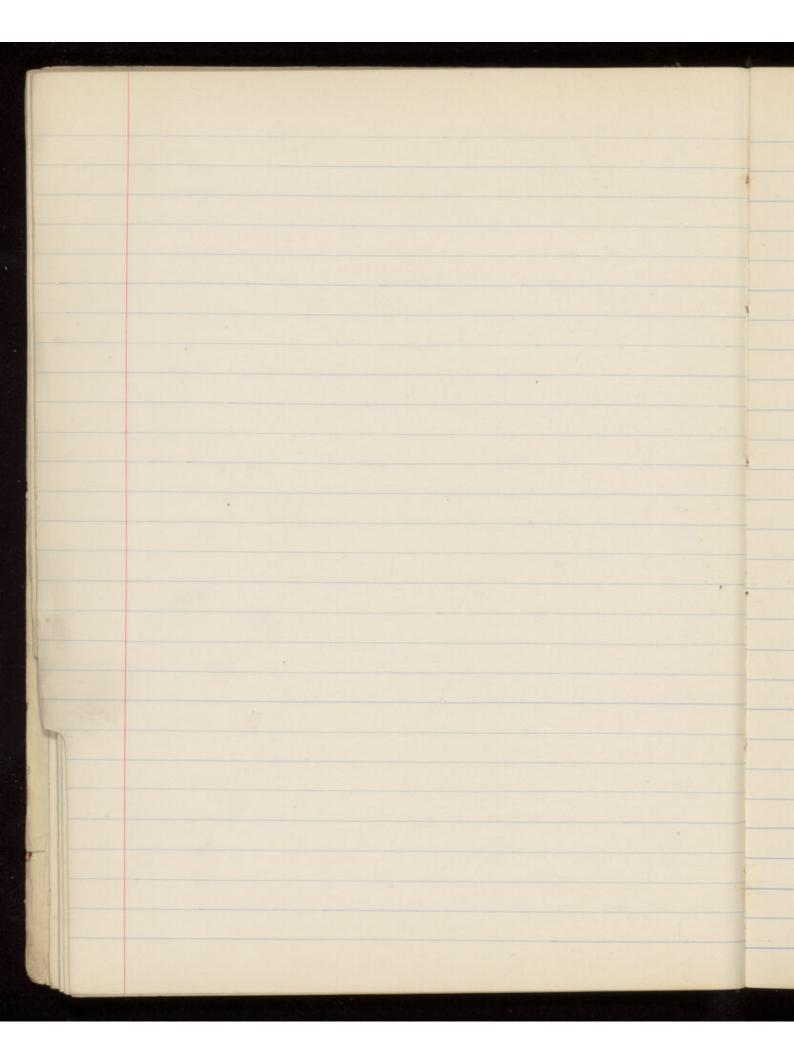
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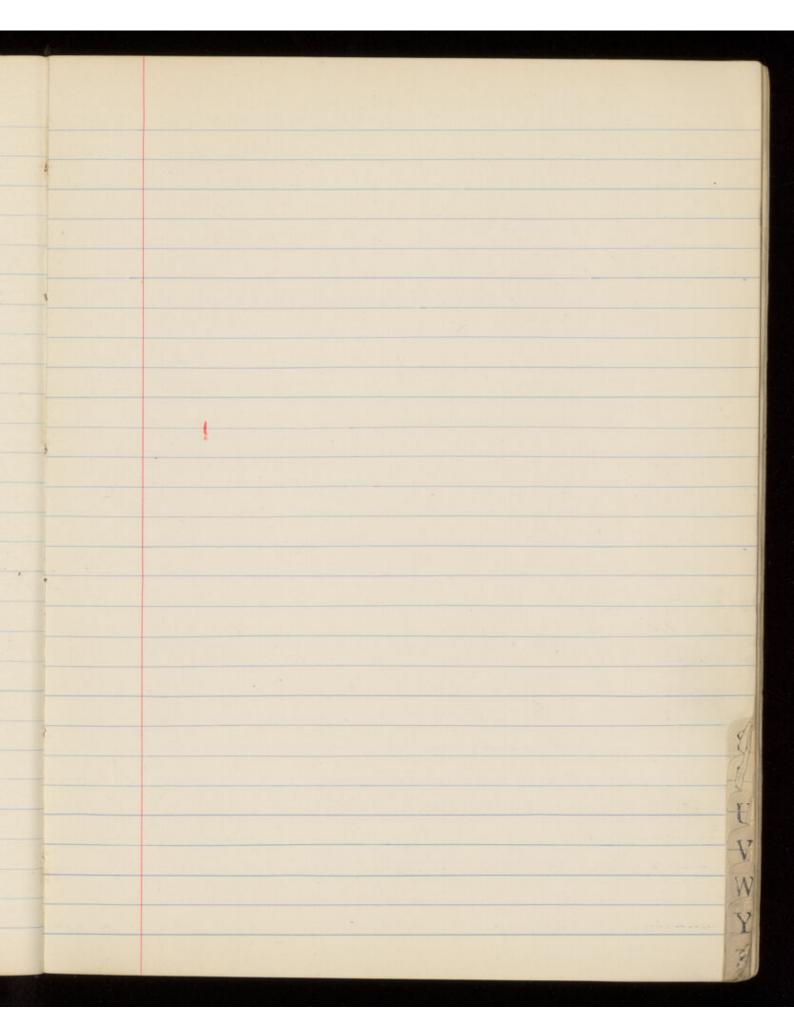


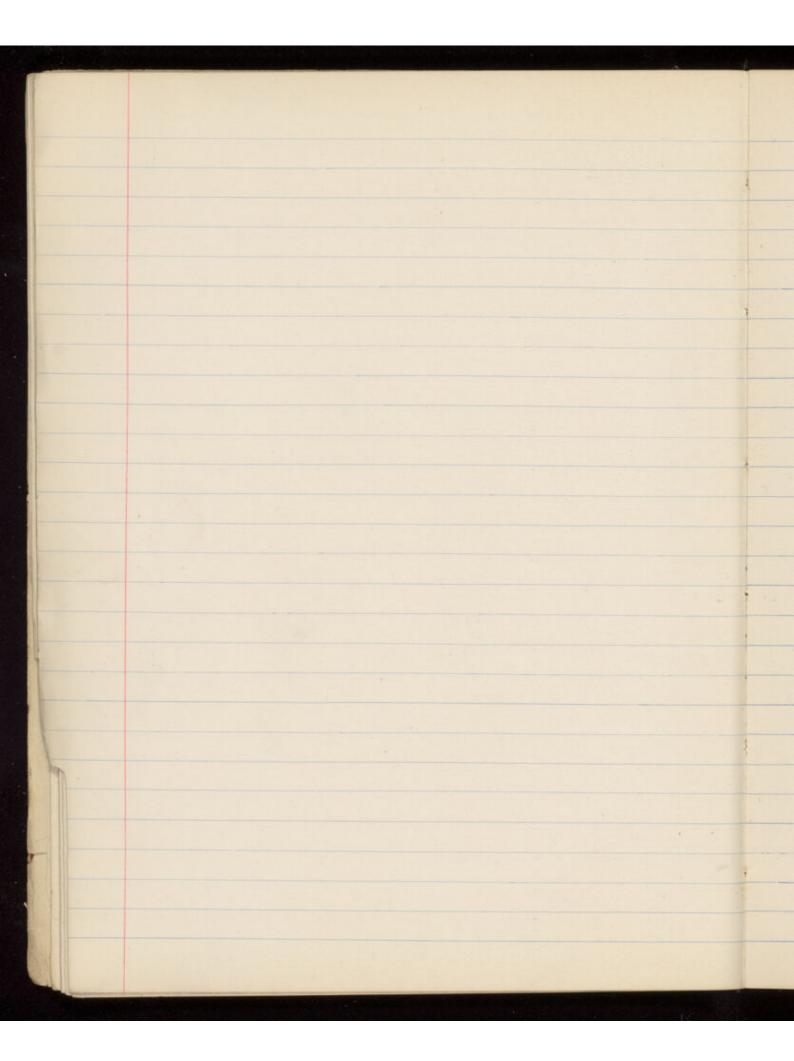
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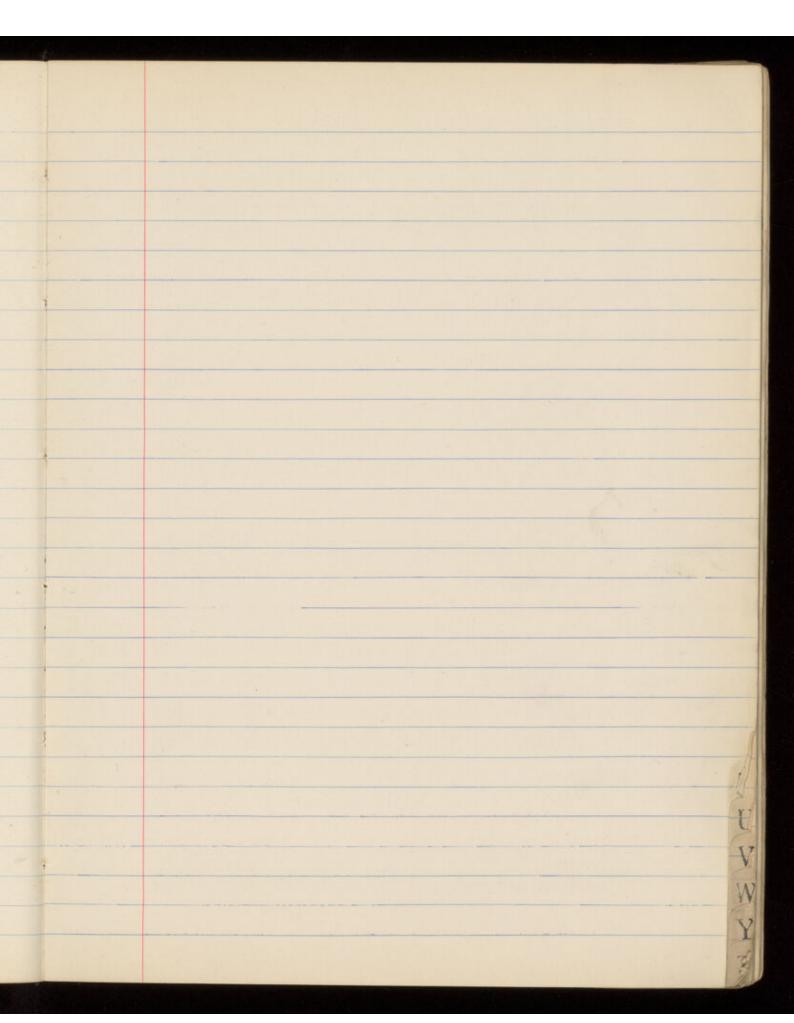


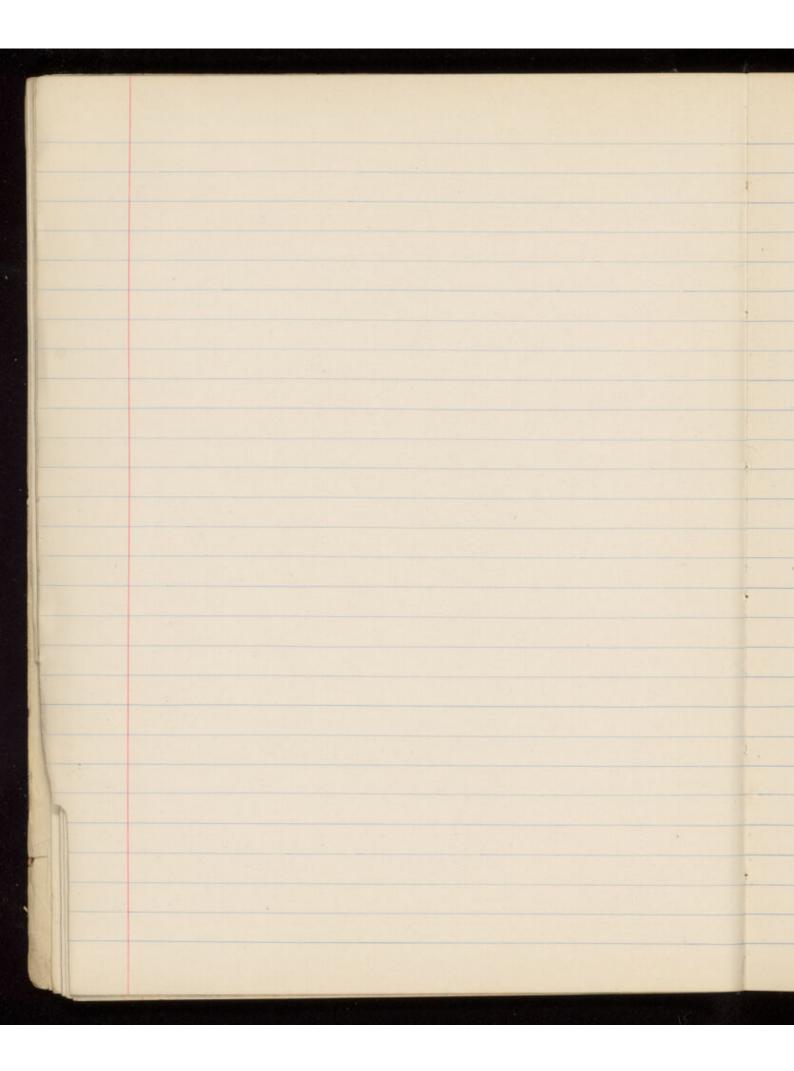
RYVVVY

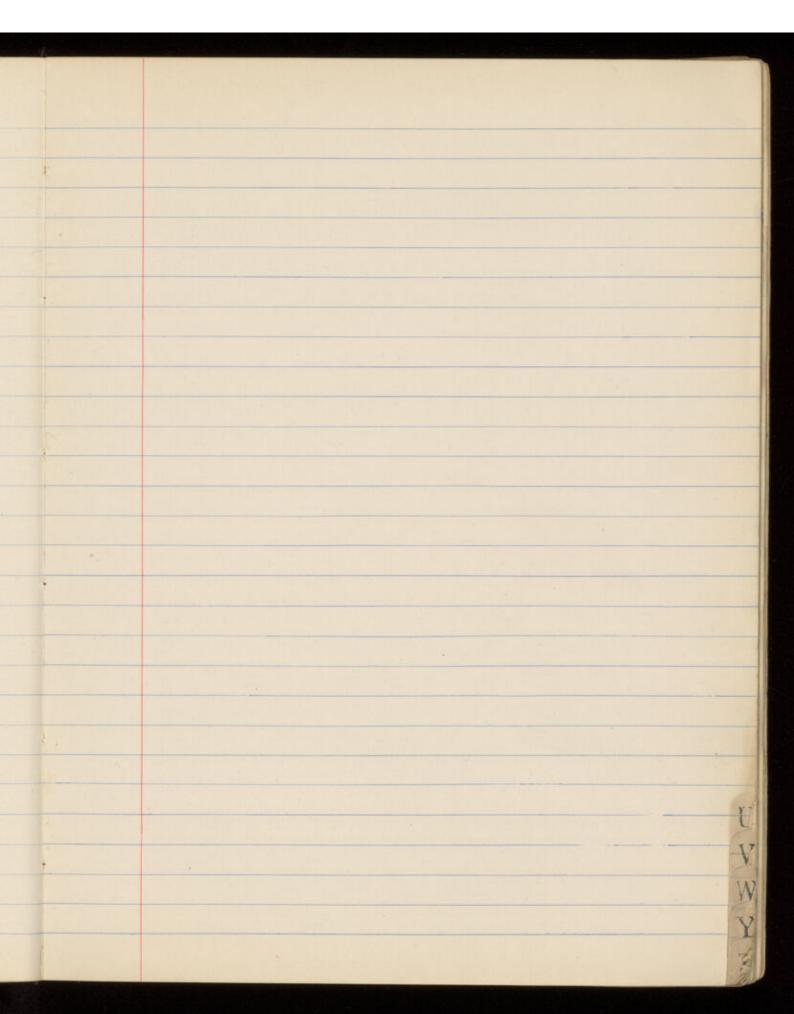


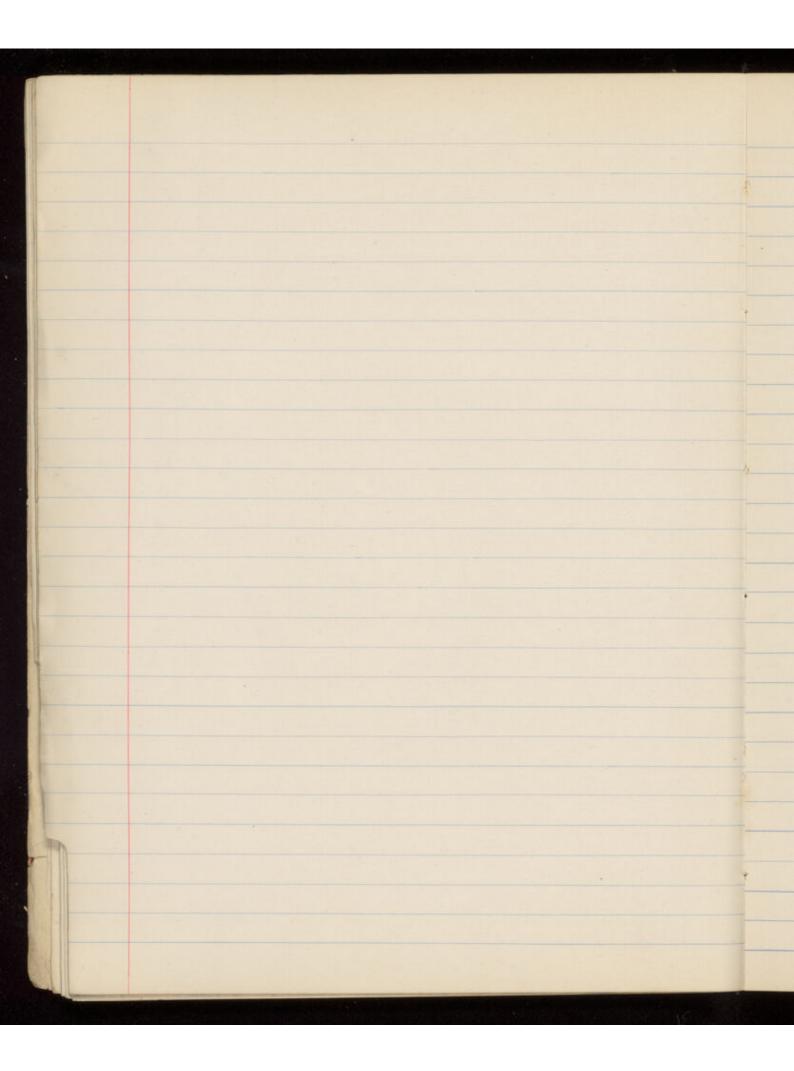


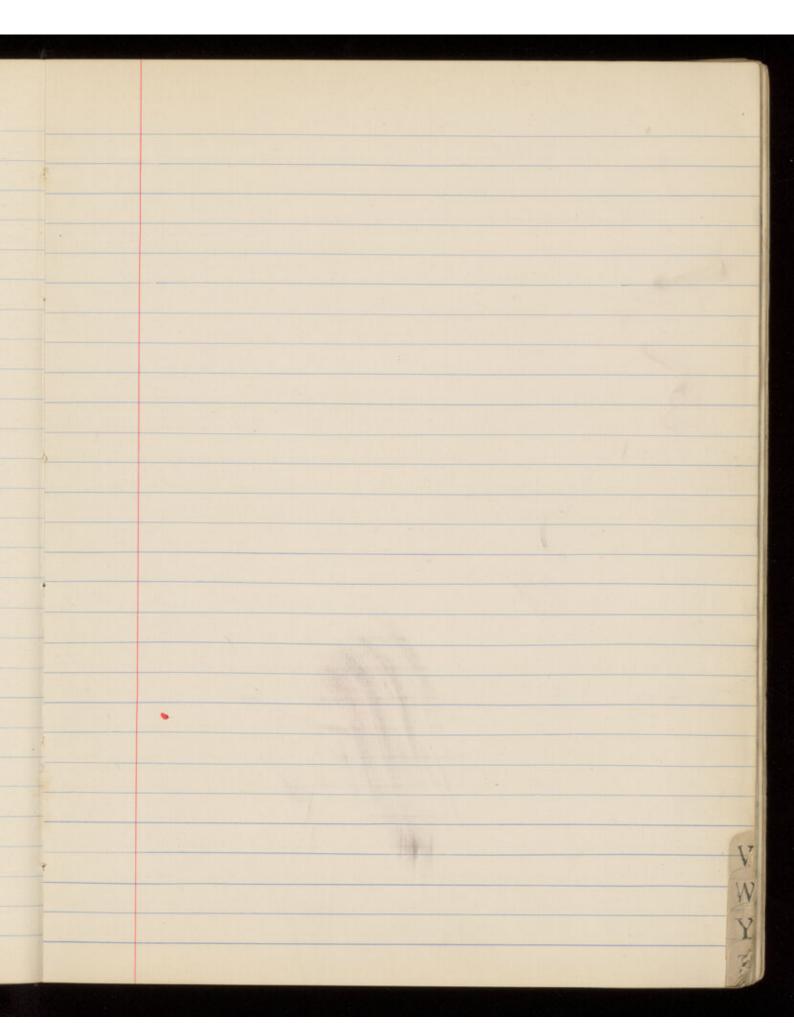


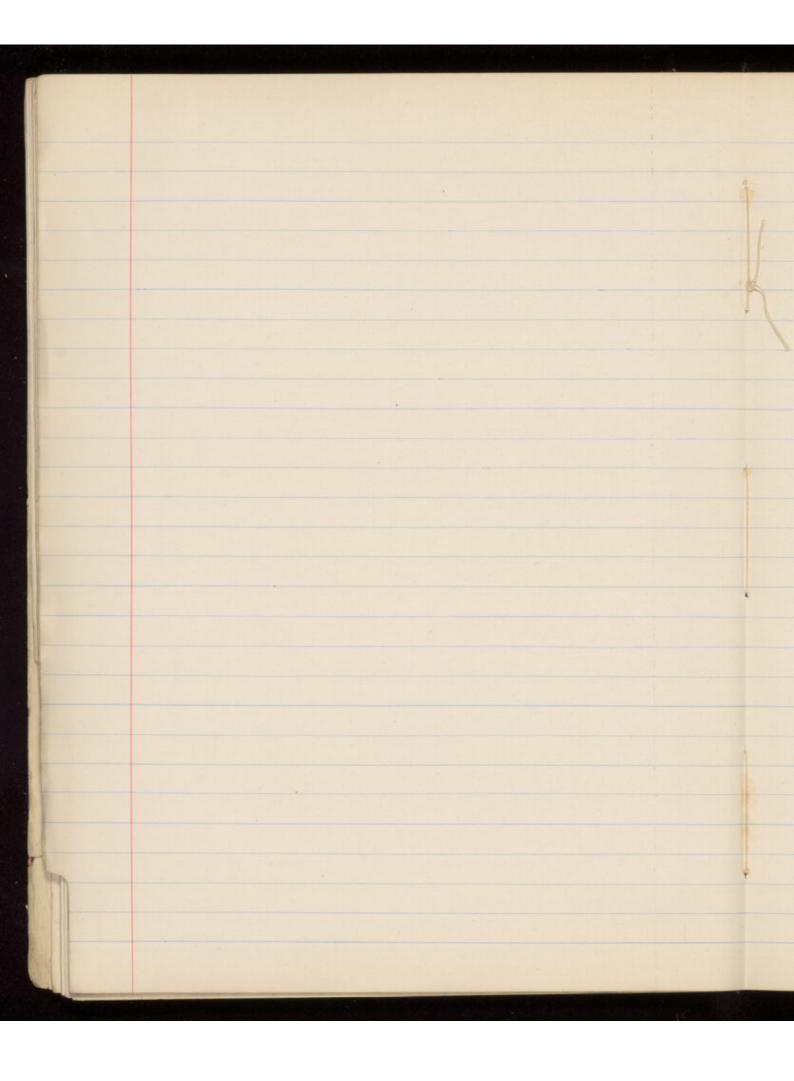


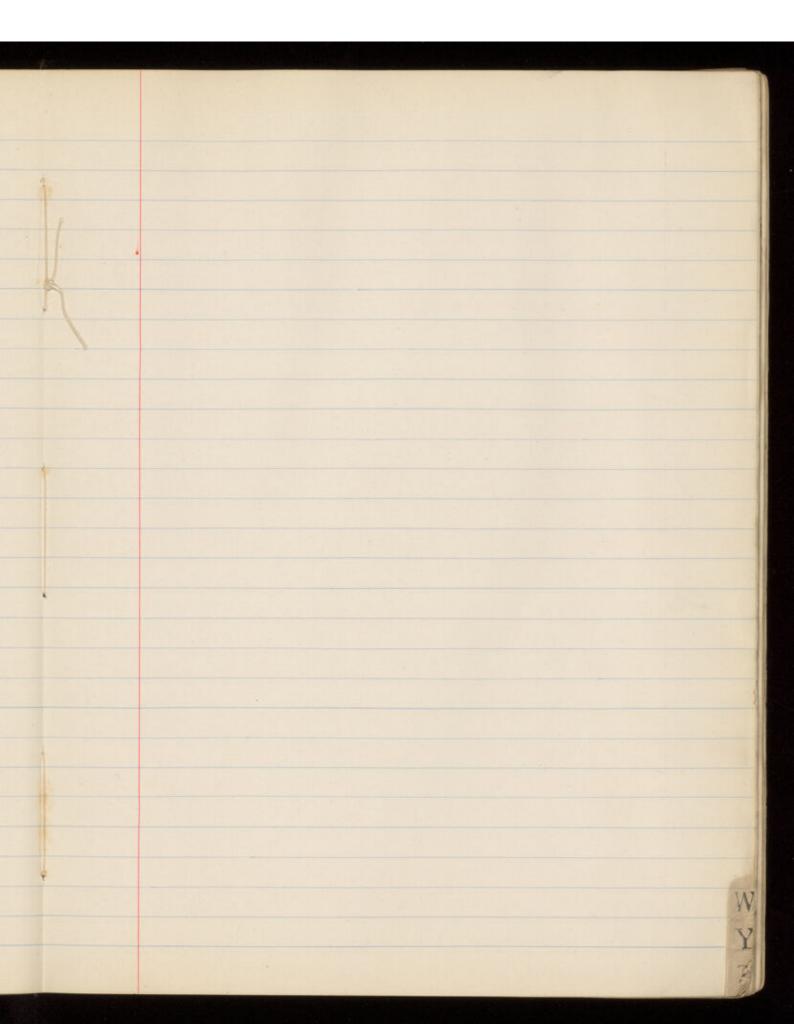


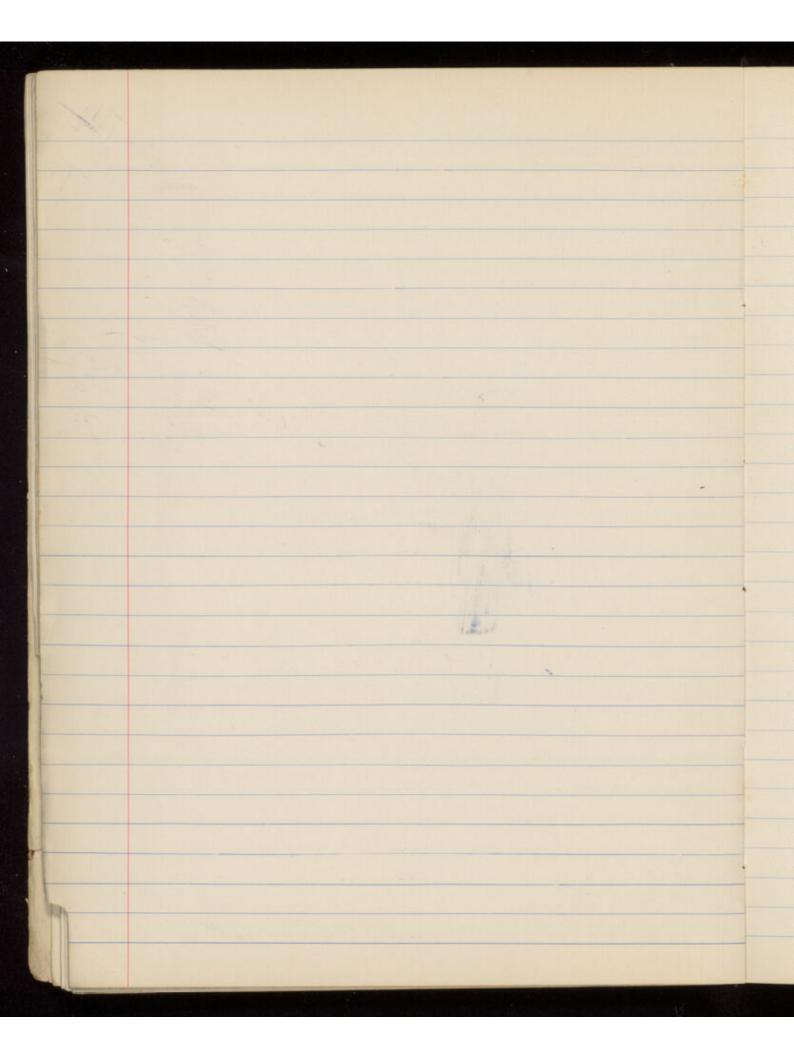


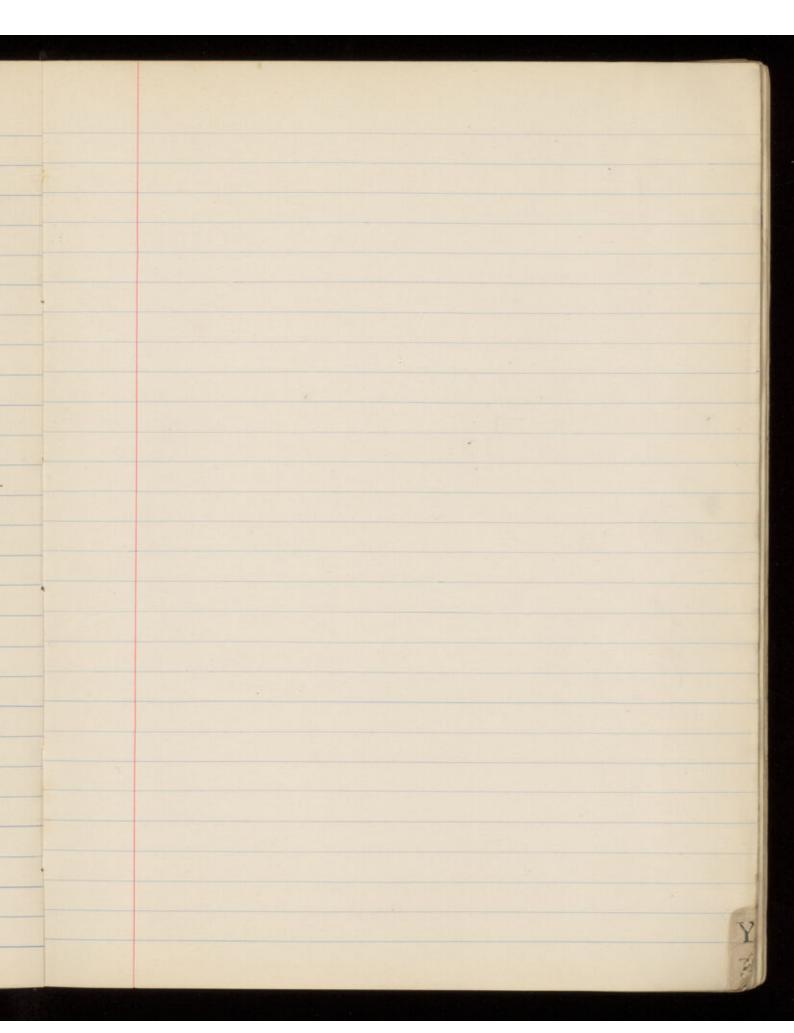


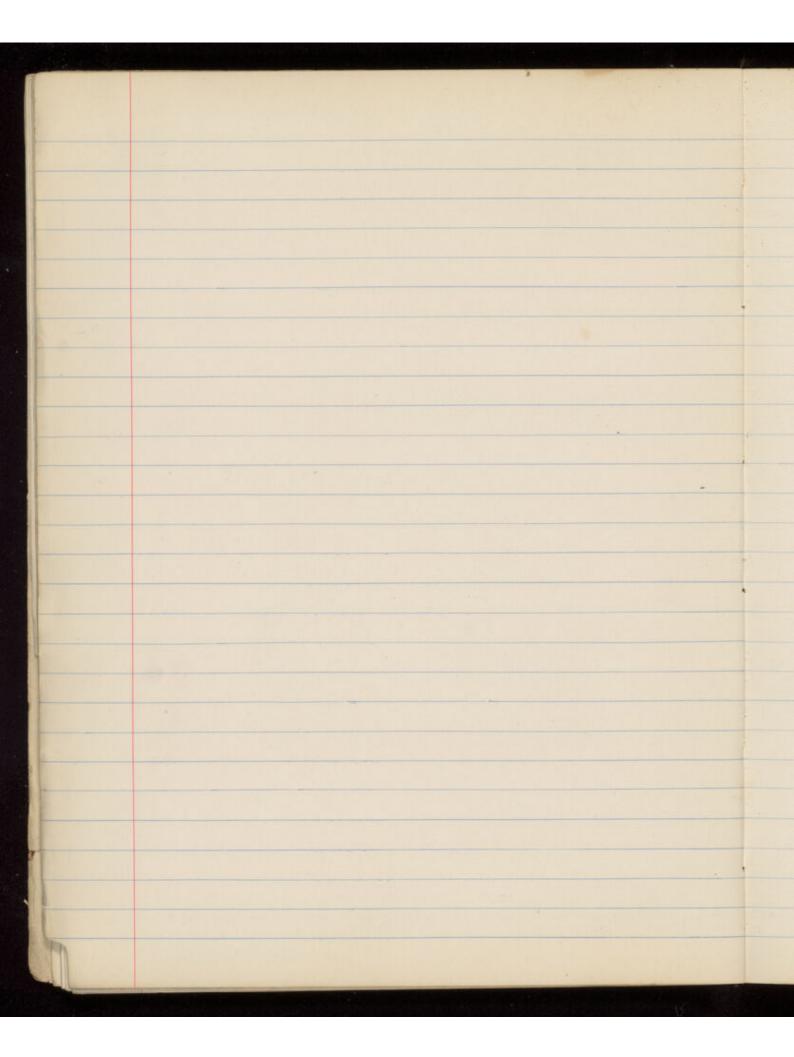


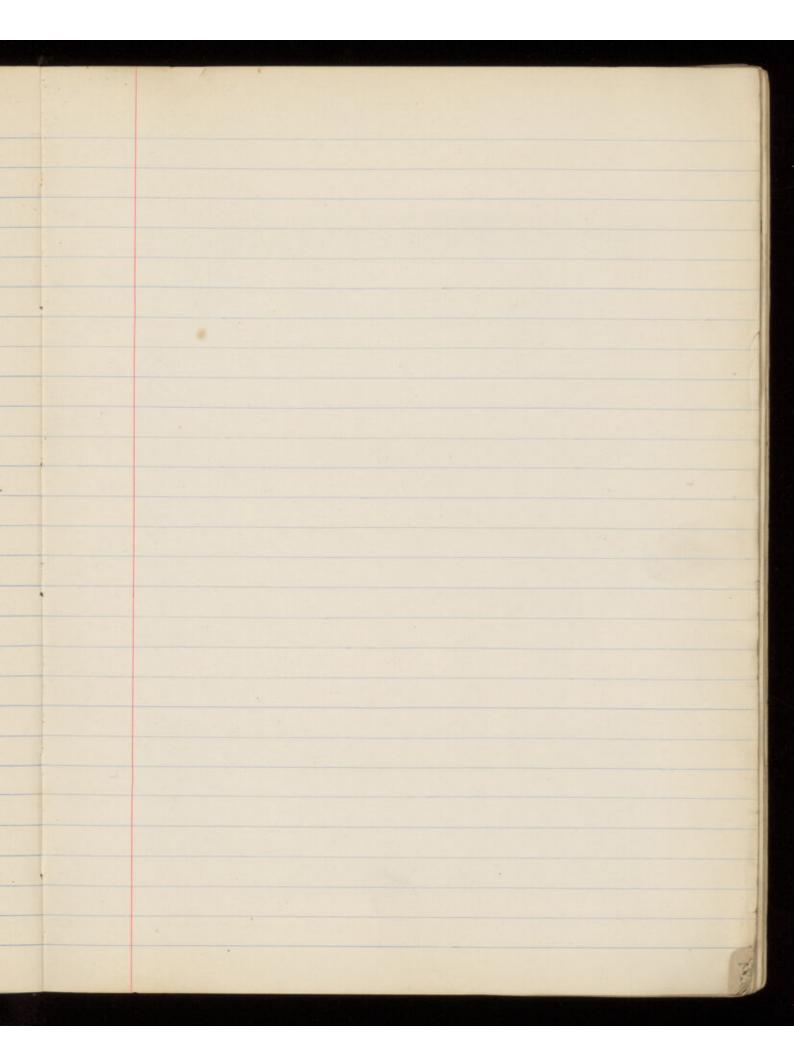




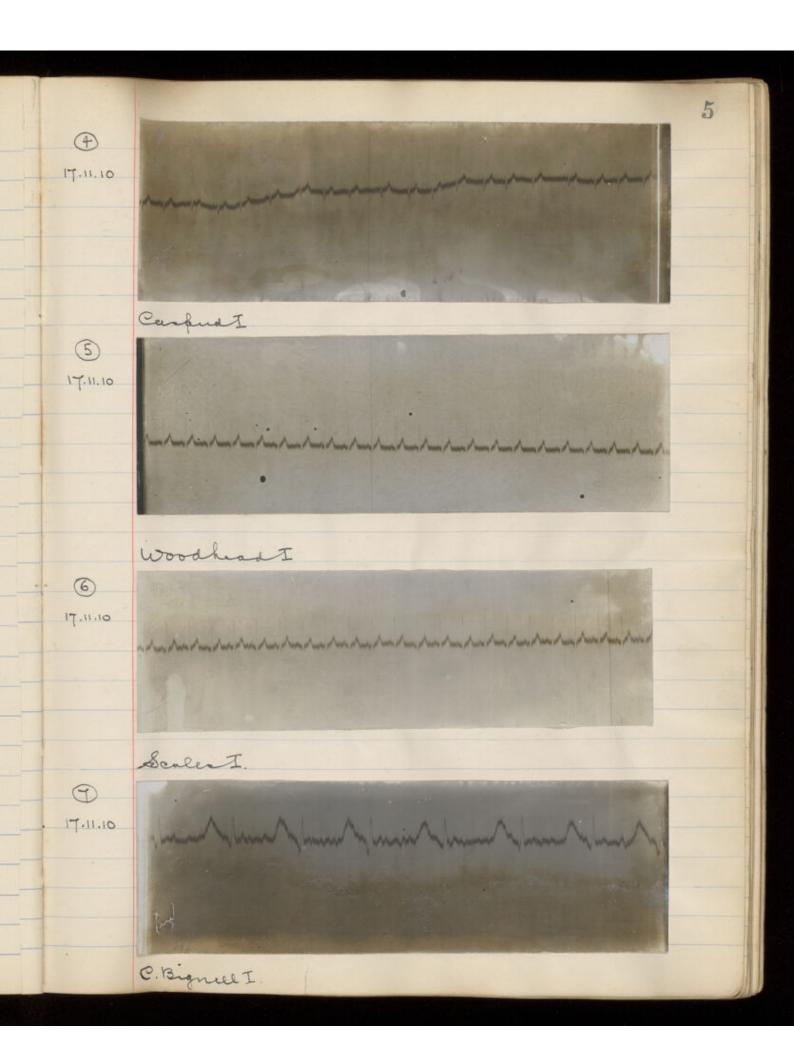


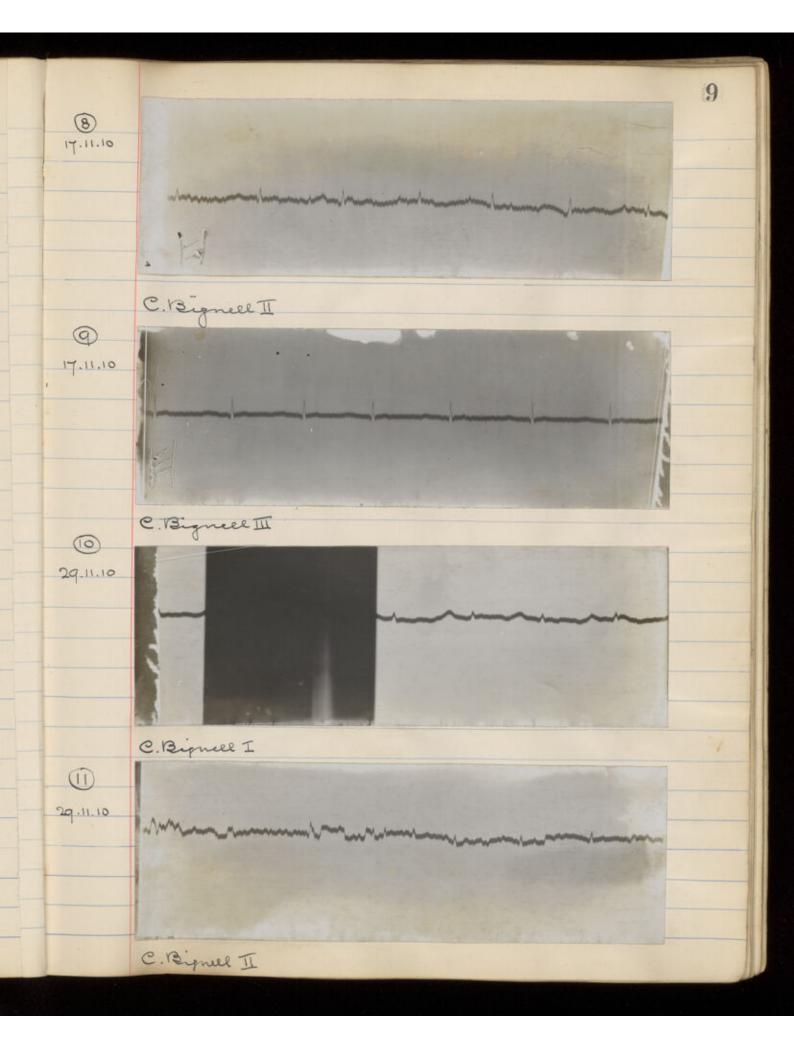


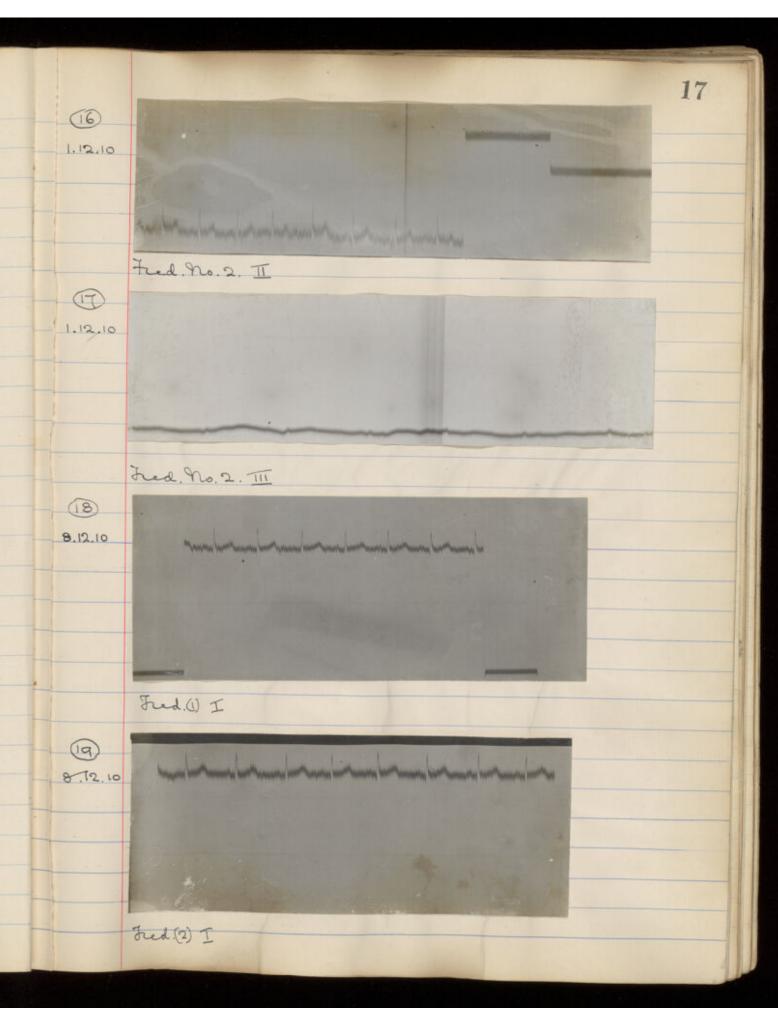


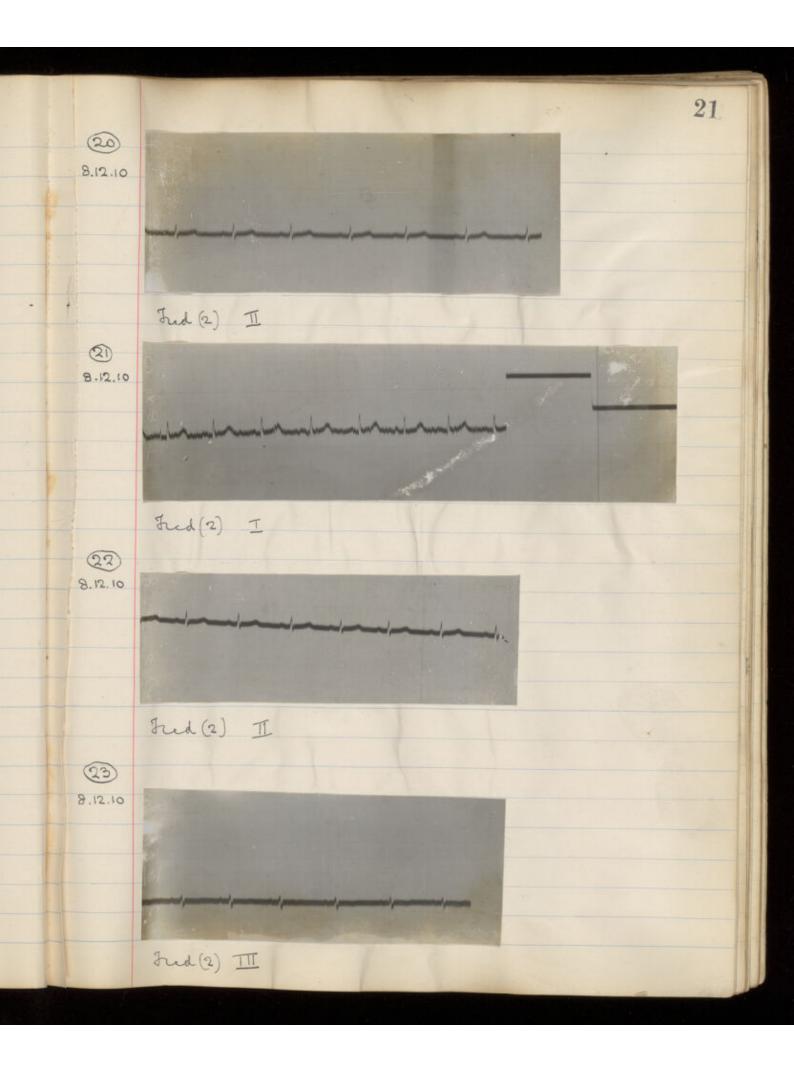


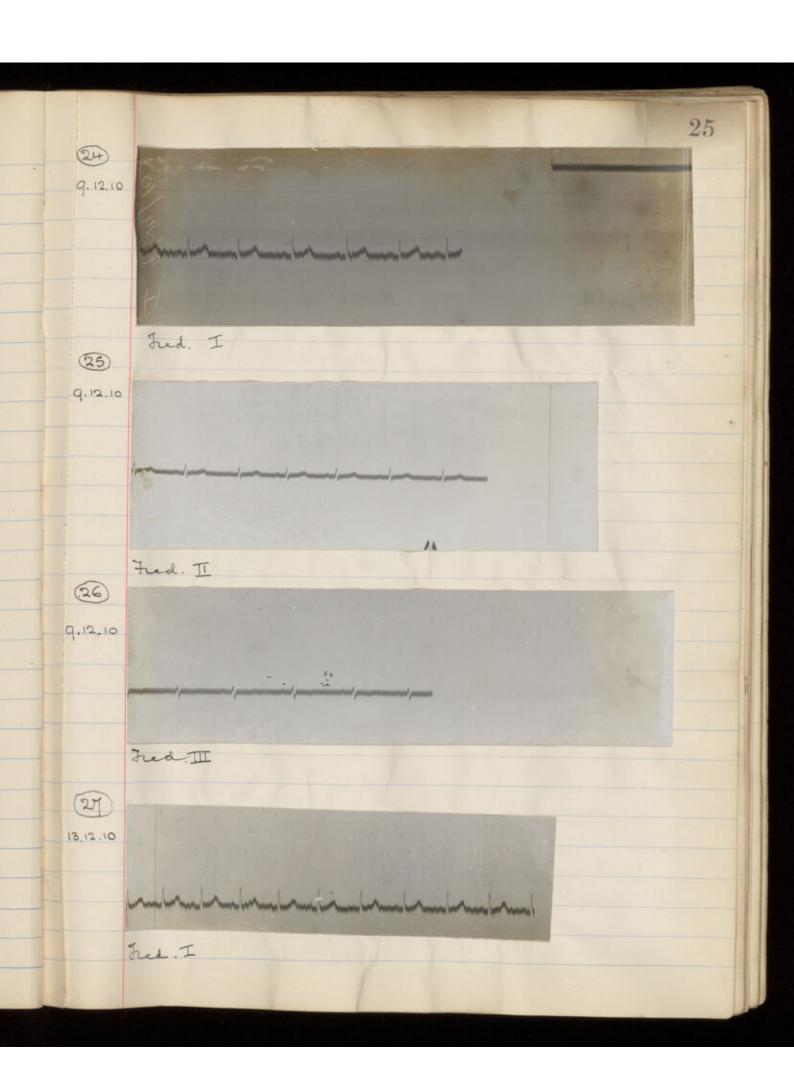
Dec 13 Jul. 54, 28, 29 15.1 -2 15.71 الخار

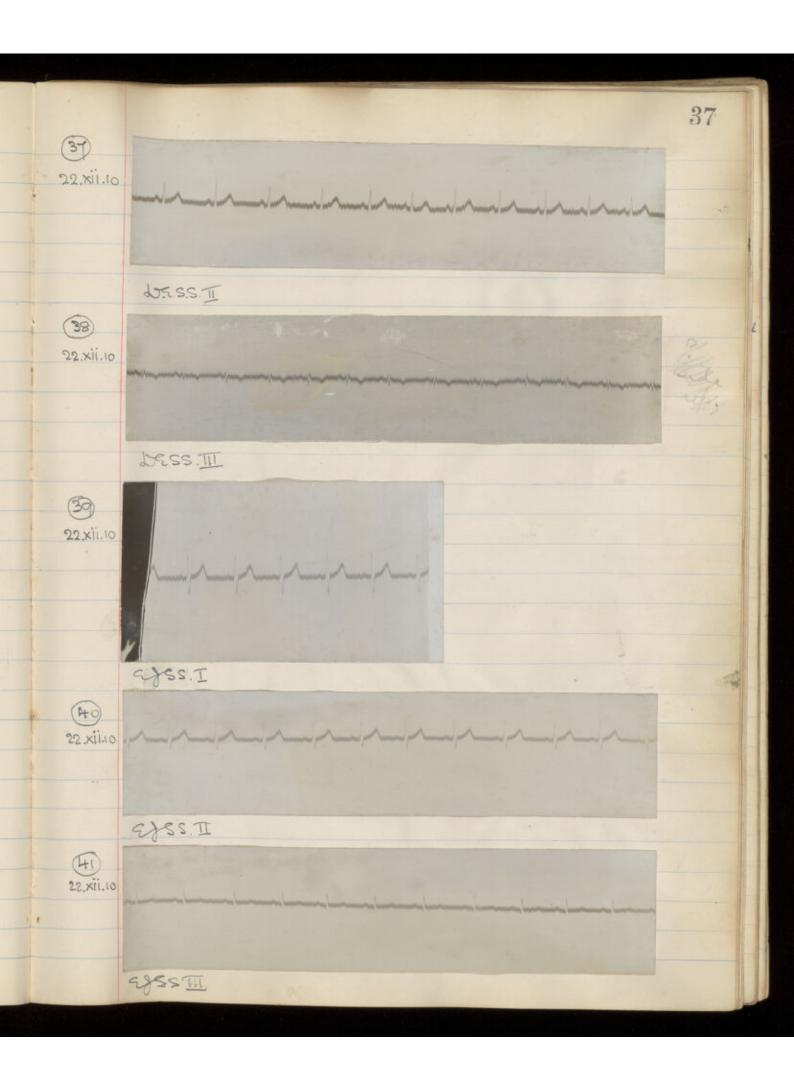












23. XII. 10 Climed Moles for Coc. Drykenia, gallof bruit at hoseighter, eyabolic harmin bruit at base - permission amarmia apparelly escha venticular syabolic very frequently.

Jallof bruit first his sounds coincided with applete, too due to americal fre regulation for the independent wight by due to american orderentue around, or one a divided behave the first sound.

Reduffication of second sound occasionally.

30. XII. 10 Chinical Roles apres Wand fael 18. without alevois

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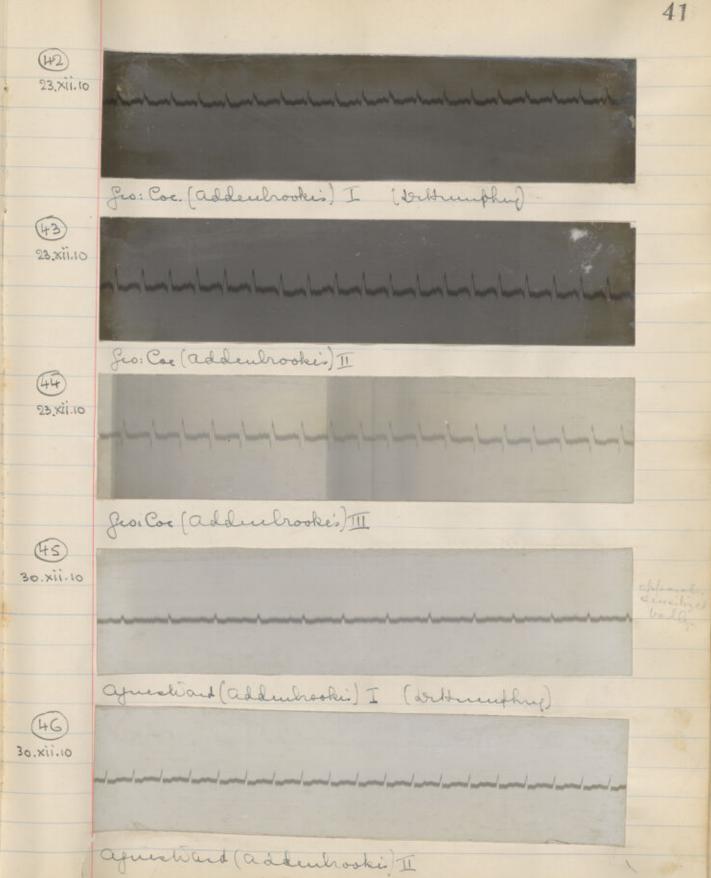
Chorea at T. Many 1904. Heart disease.

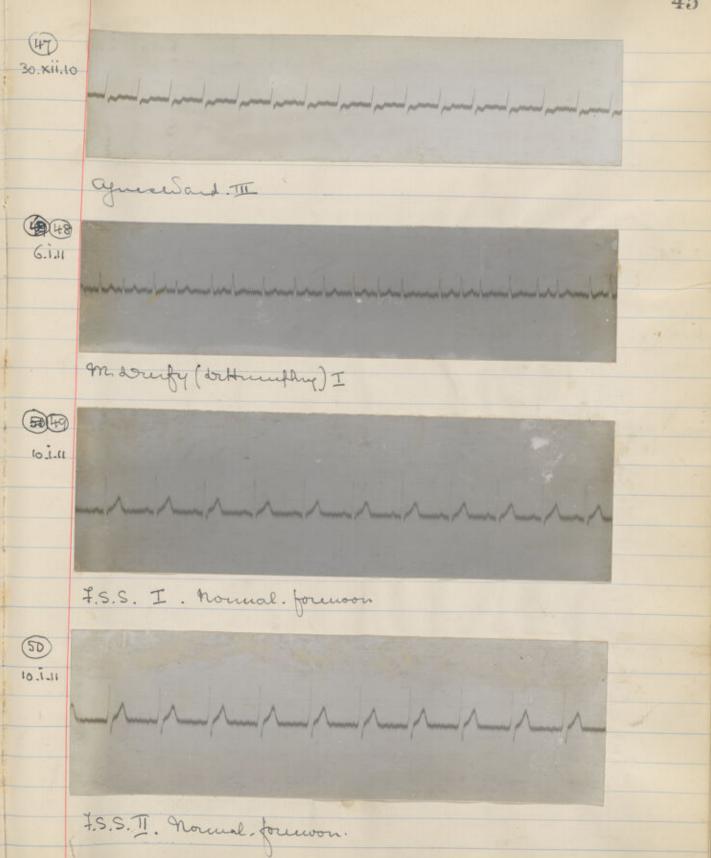
Drep condice duline f slands 2 nd rib. Hope out 6/2 to lift in 71 aface It "to at of obermen.

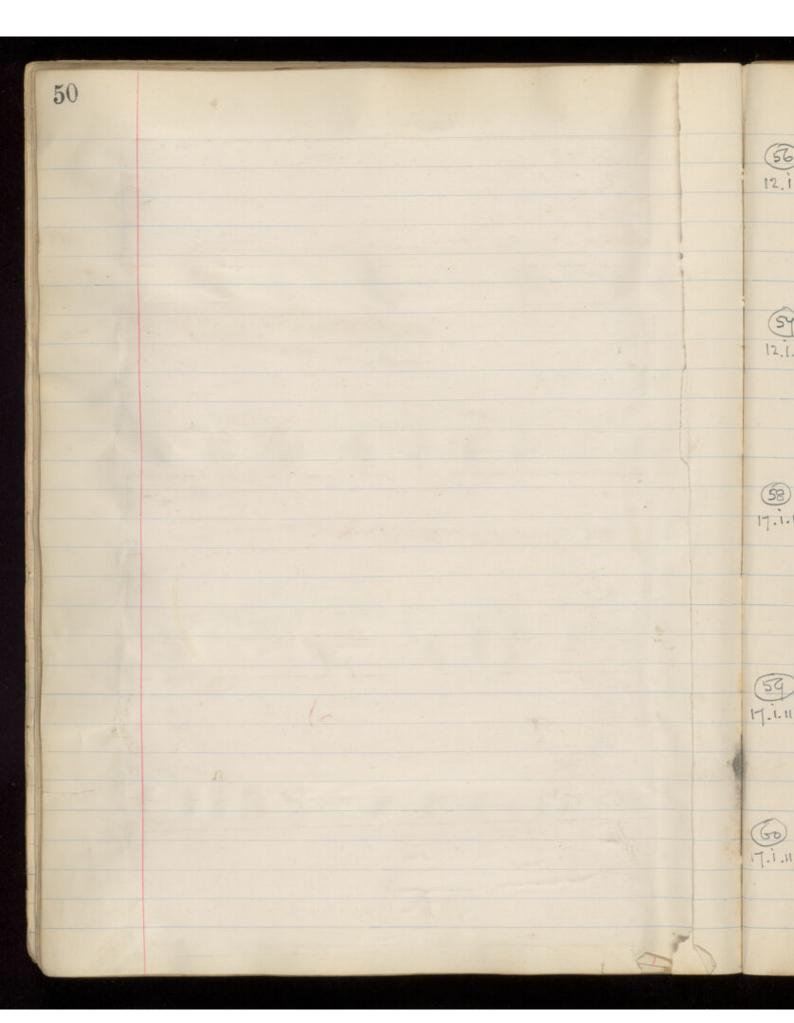
Soud without drawid all own condice ones, assile thack, with discrebilis remaile at implies.

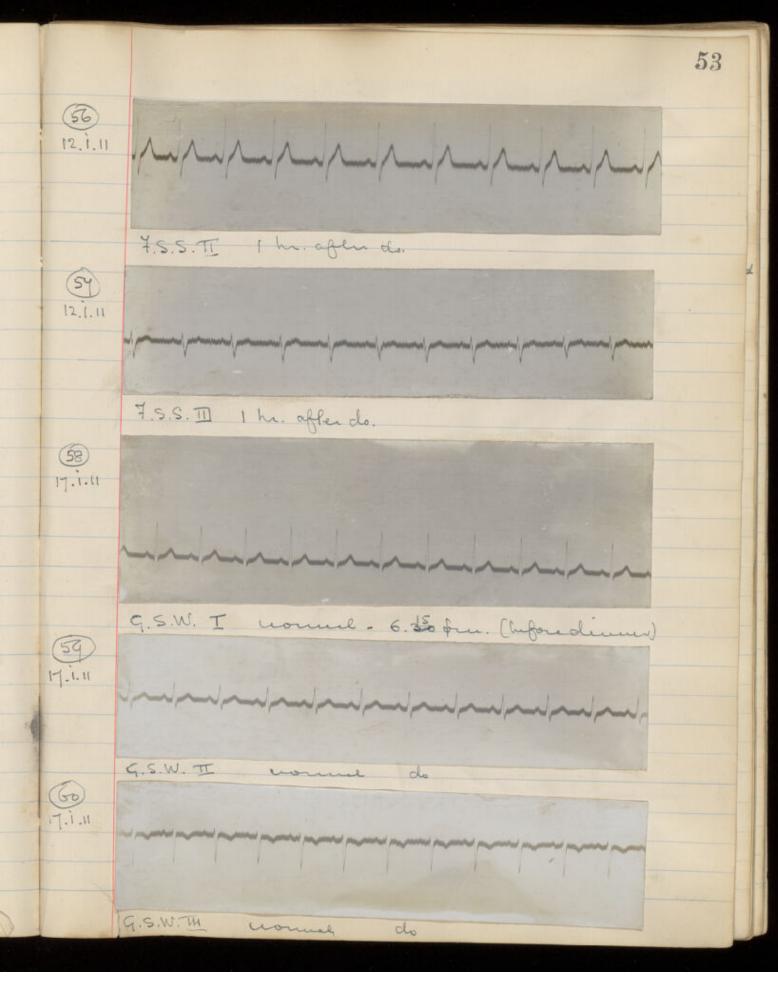
A cortic discrebilis bruit at base. Bolt to the murum in 3 to 14 th 7th interestal spaces.

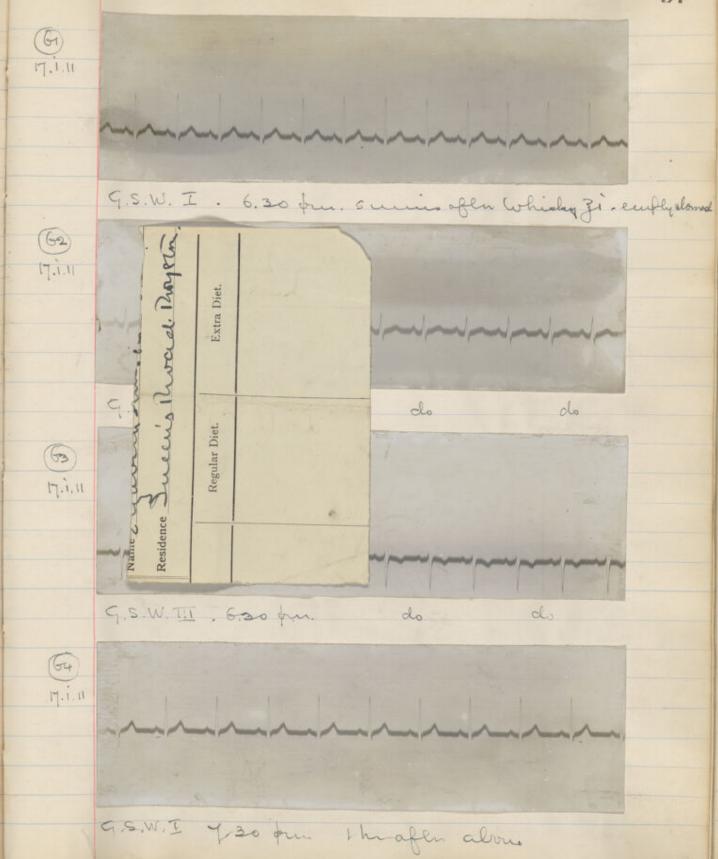
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may 24/14 Violet Toubbard nheumatri 1100 +95 +88 (3) Mahel Beulley 13. double mihal (4) -8 (5) (6) - V.

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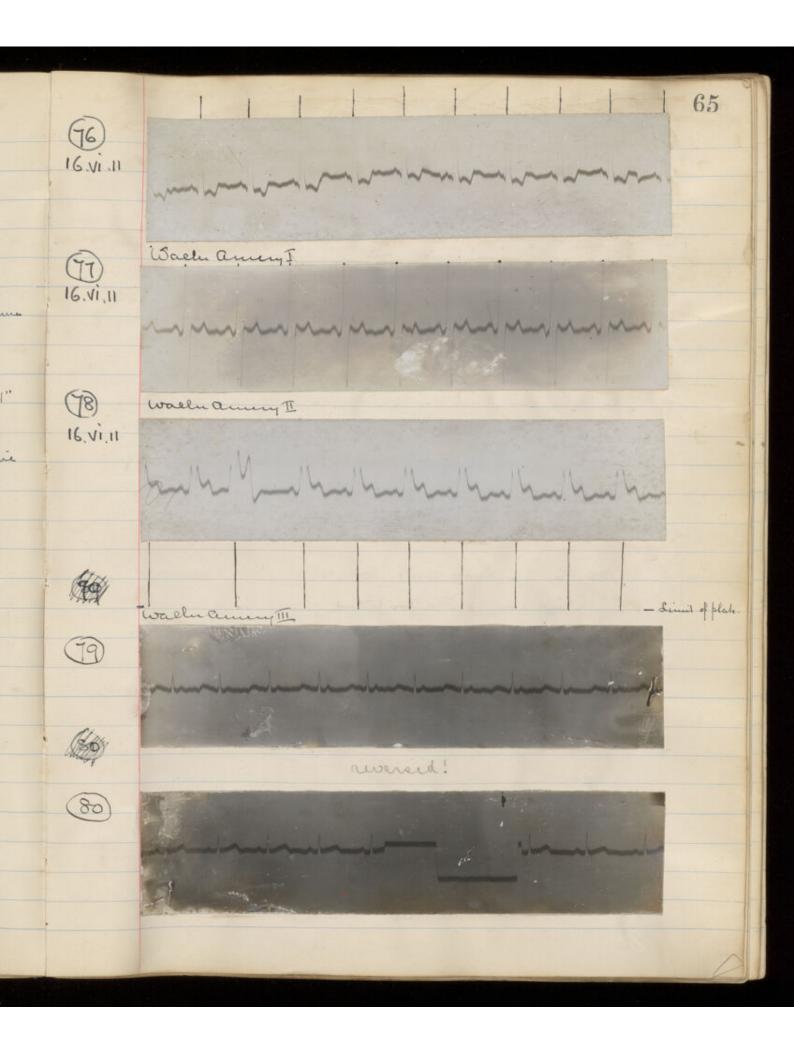
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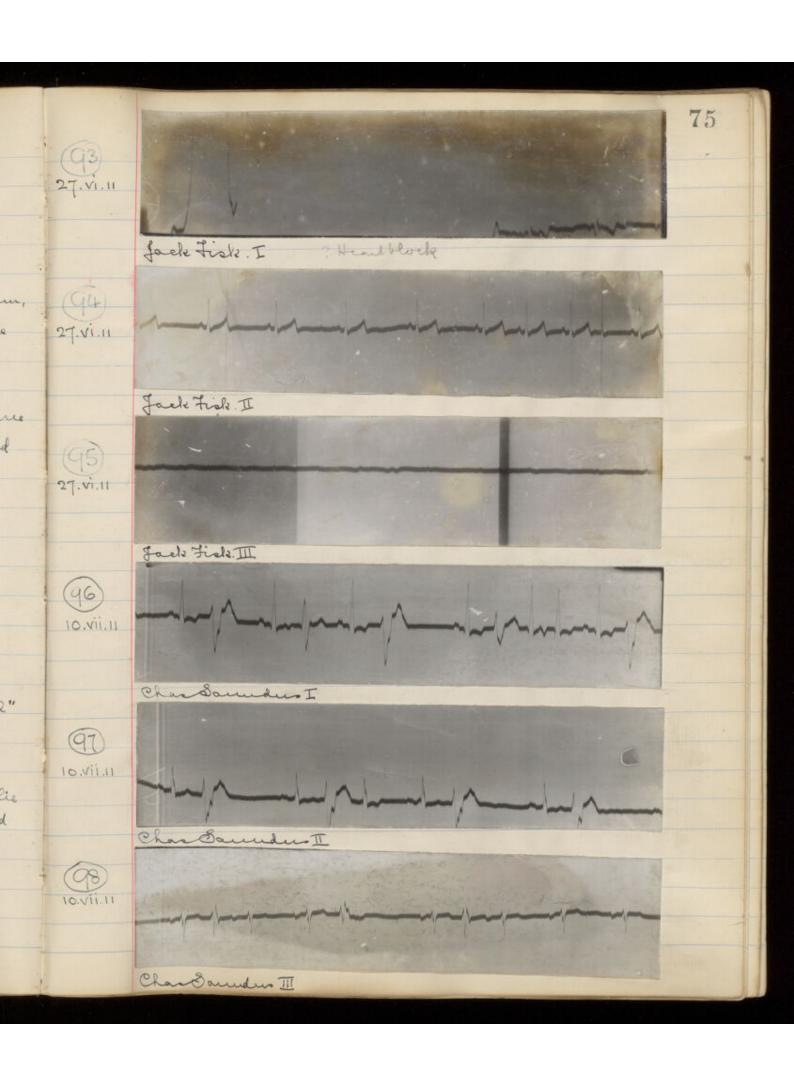
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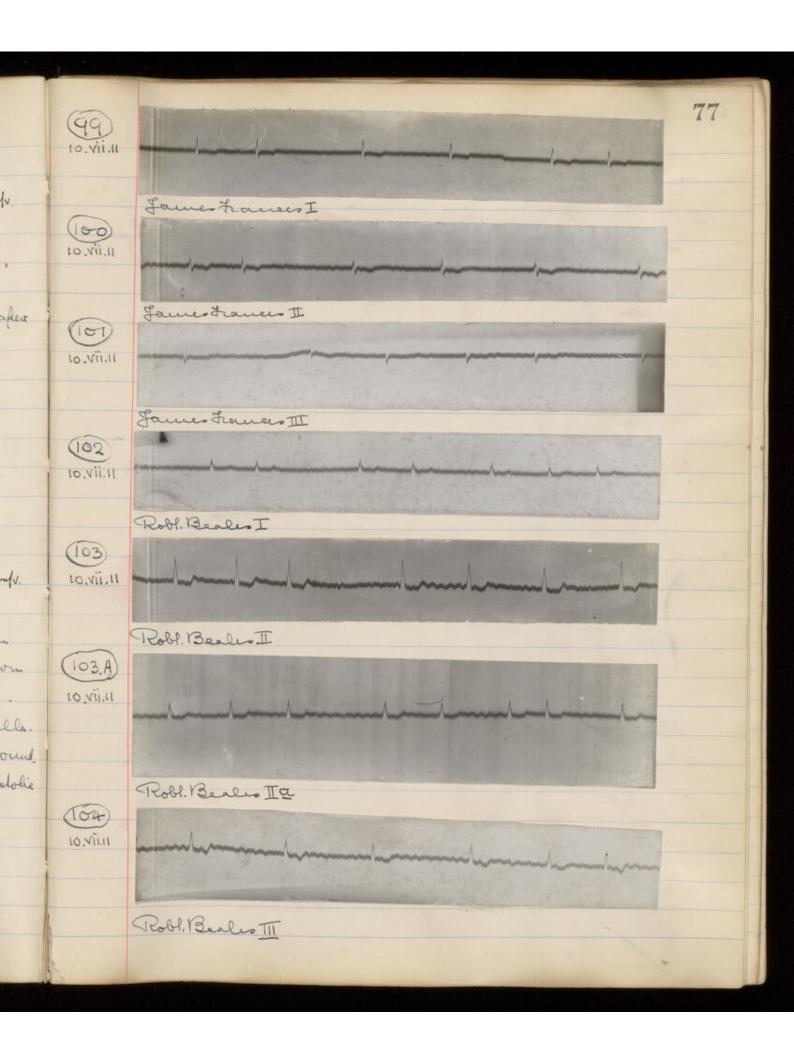
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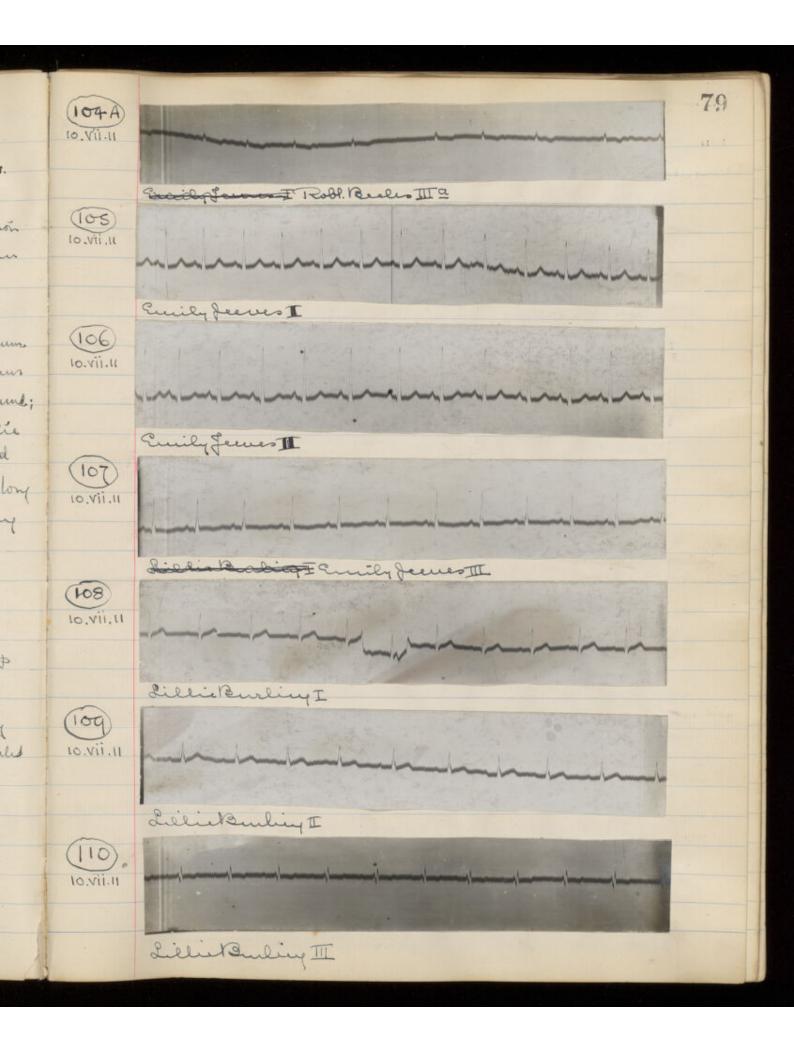
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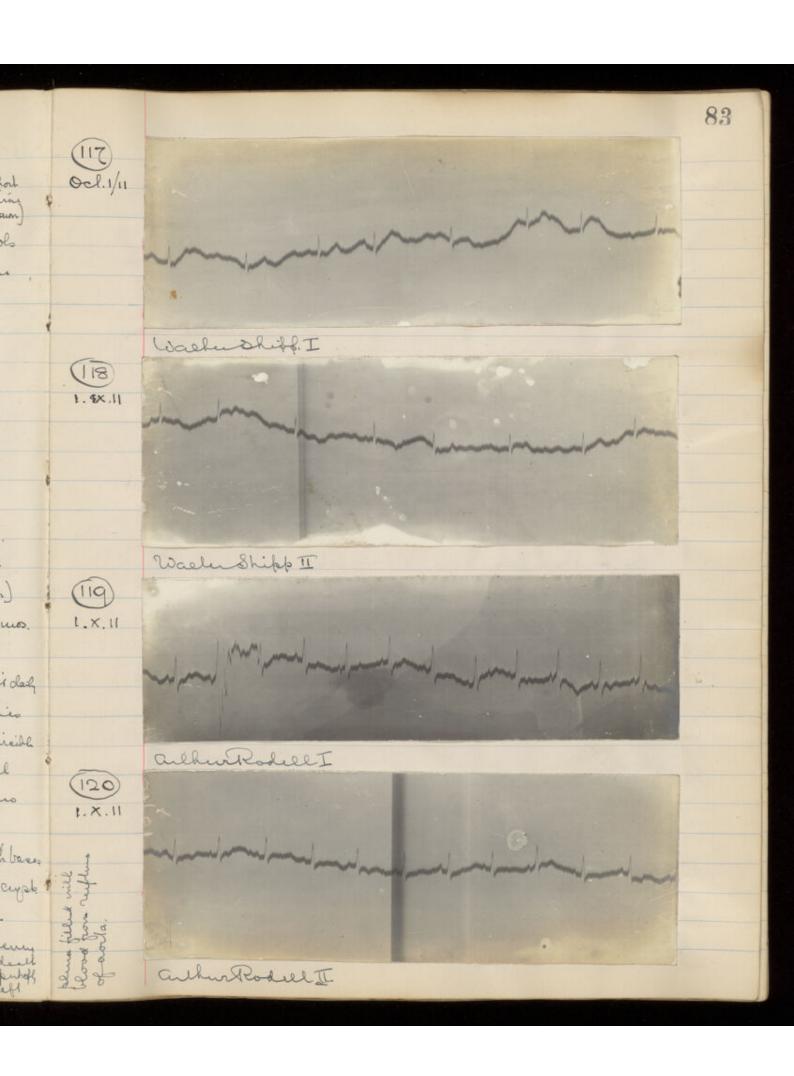




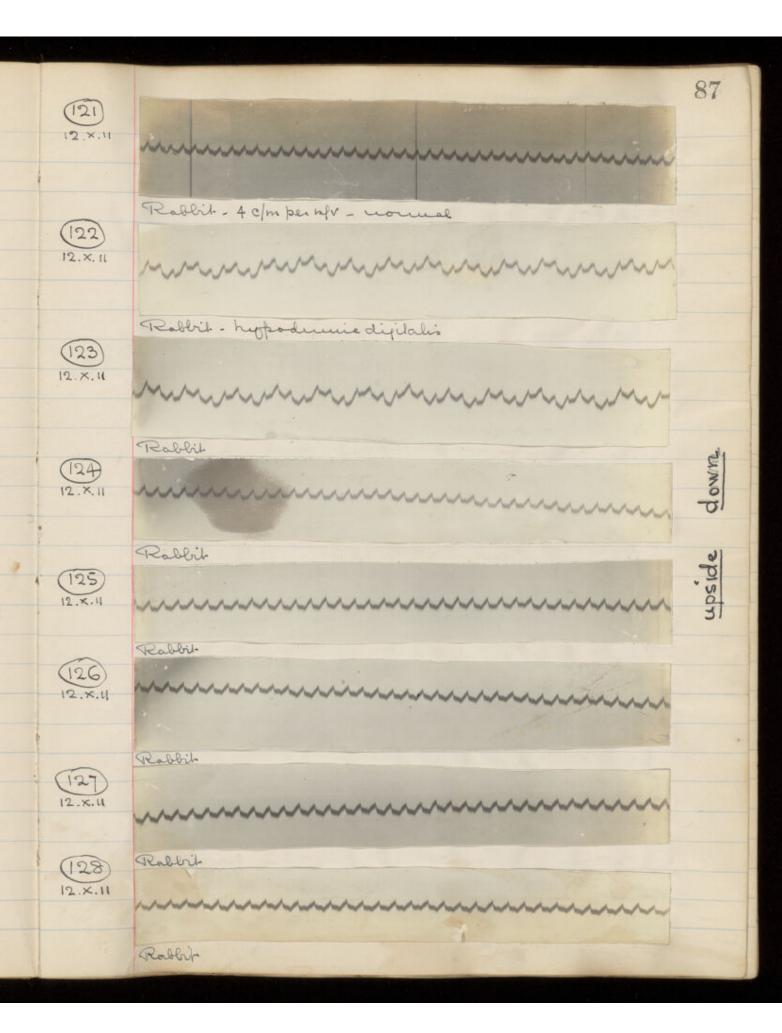


78 Emily Serves, 15. Halon ward. 1911 105. (4) I 1100. 3 m/v. 106 (5) II 1000 - 3 m/v. 107 (6) III 2200 - 18 m/v. ang. 10 Thermoliefeur when 8, when 13, Juhn 14. (Ic Heart- bulging our traccordes; diffure pulsation in 3 of 4th & Staces; maserimm fulsation in All apace. afex in 5! spass, 4/2" from unddle line 1" outside cuiffle line. Tel border just to at of derum ausculation - at afex short presyptolic unurums unit slen becoming continuous will accombid 12 Downs; ardief 24 bound and sound redufficaled; faint blowing deastolie clouble anthe bruil following the second sound. al base and (10 buluionary accerdialed. Short syplolis and long diasolie ouer aortie cartilage, diasolio beny 1911 propagaled right down to after of heart. dieletamling, 15 (Hallon Ward) ang 10 (10 108 (1) I 1100. 0 m/v. 109 (2) II 1100. 3 m/v. 110 (3) III 1100. 2 m/v. Thermalie feur Guerks ogs. Ideal-afisc in 5! space 3/2" from unddle time P about " weide wiffle line. und, warm auscuelation - 1th sound faint falmos entruly (Recent) reflaced by withat systolic wurum hopafall slightly to ascilla. Marked accountations of sud sound in polinonary area.

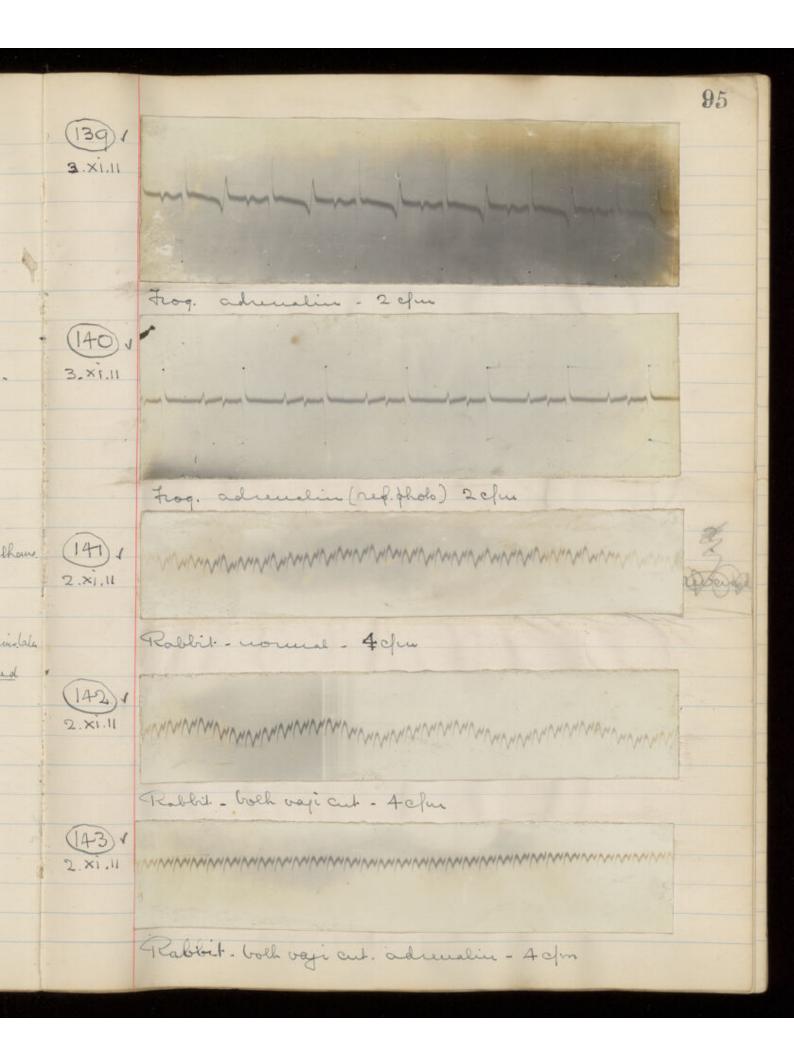




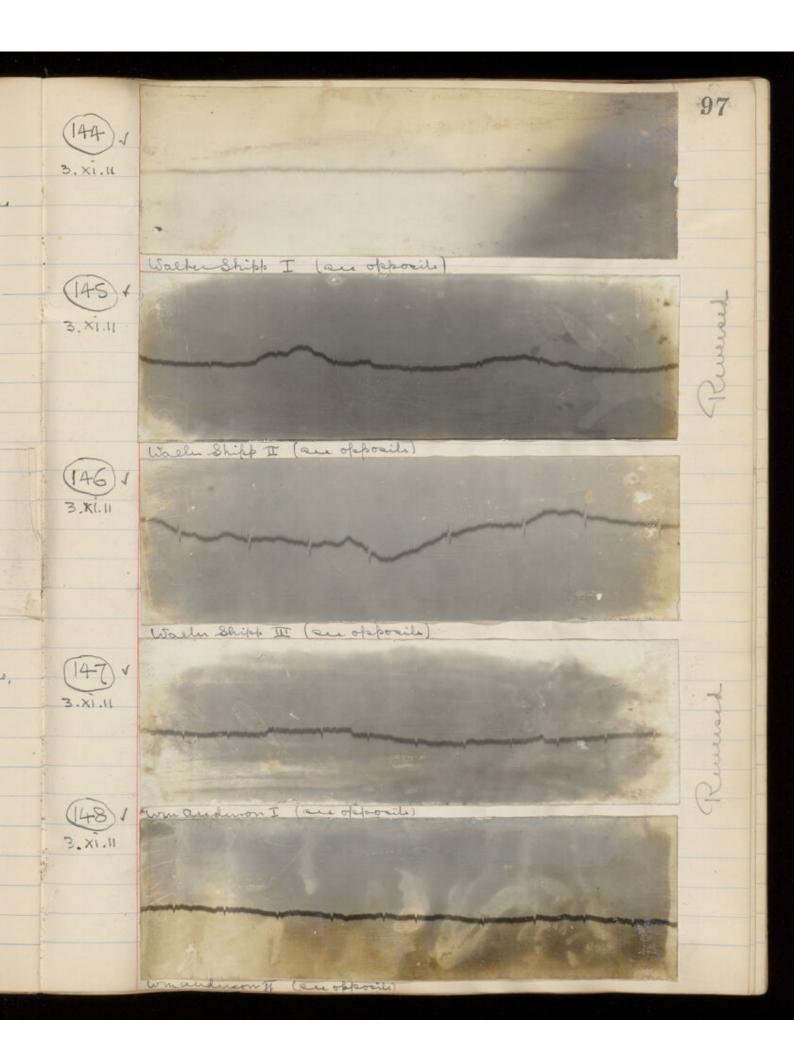
1911 Oct. 124 Stablit. (Bode W.F. Driscon). anaesthelie - withour. Show in coadle - sufforled by along under cheel, In for paus with fur cut about with seyfors, would in 2-5% sall sol. trill Zime flate knimals. Lead I used throughout. Secretarily 4 ofm on my 12 (1) 4600 ohous: skin currend 1/2×40: 65 mfv. wormel 122 (2) 7000 ... 3 x40 = 100 m/v /digital 123(3) 4300 5 x40 = 200 m/V 124(4) A400 4 ×40 = 150 m/V 125 (5) 3700 4 × 10 = 100 m/v 6 × 40 = 200 m/v 126 (6) 3800 3 × 10 = 130 m/v 127 (7) 3400 5 × 10 = 250 m/ 128 (8) 3400 not in 122 & 122 & 723 respectory movements of levels against glass hubbus conf. lemmals.

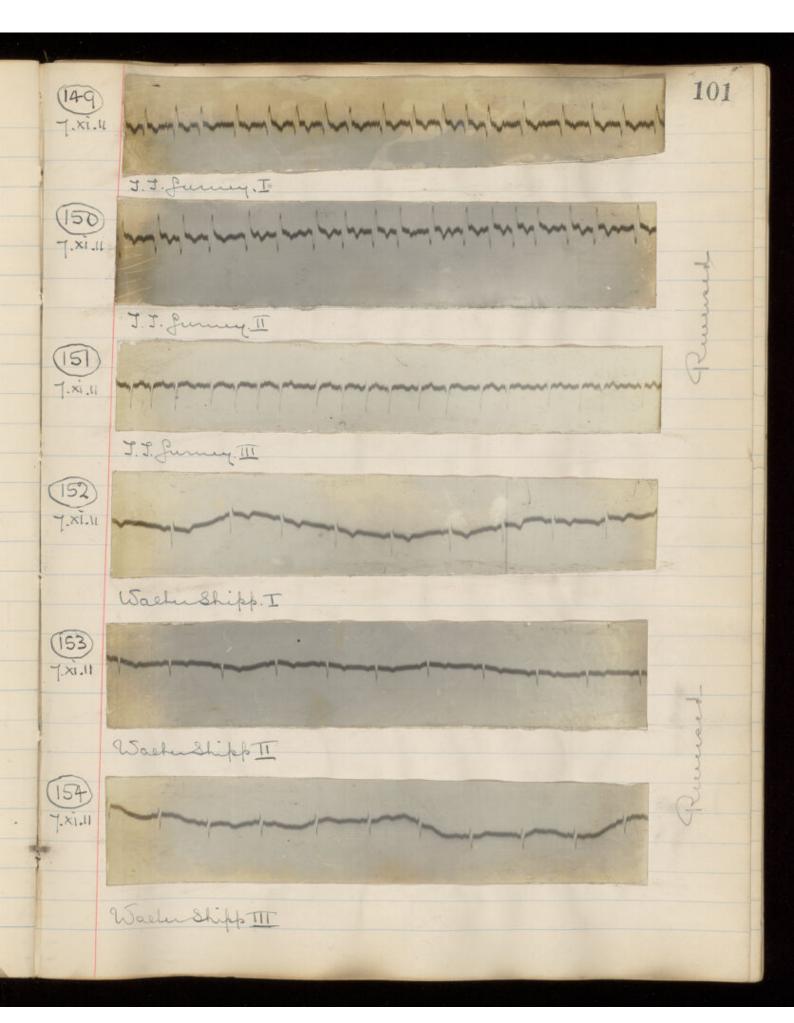


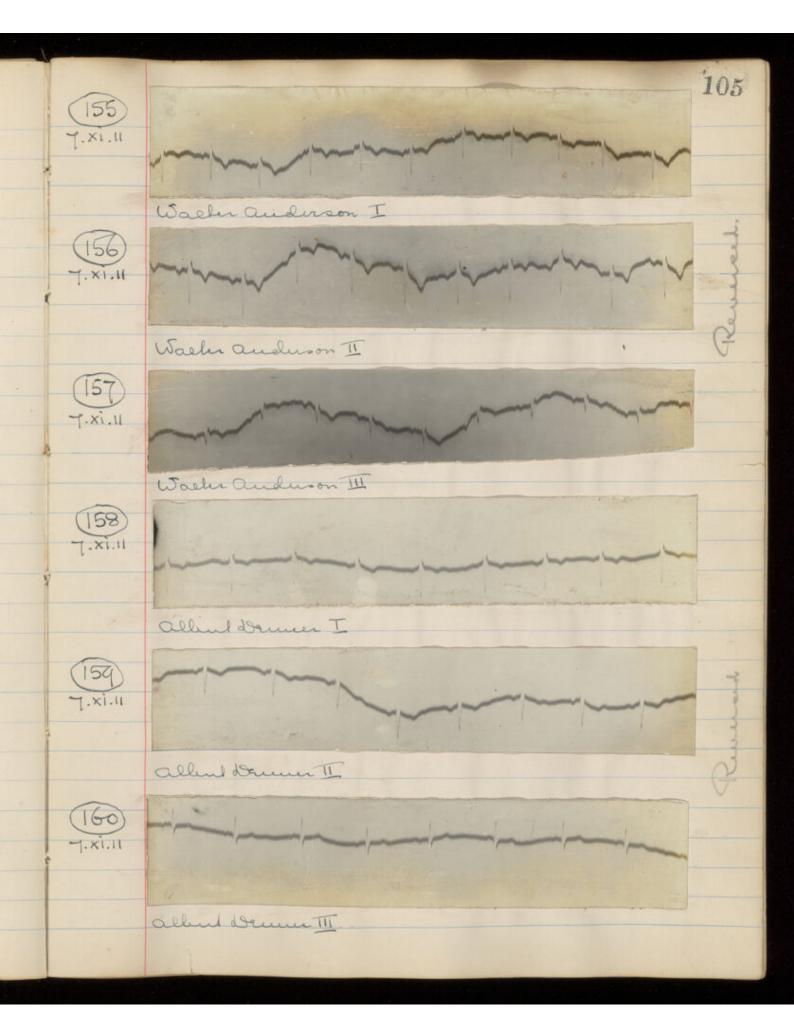
94 1911 Frog(see aule) Plov. 3 Rabbit - Lead I from Sound legs - 3 u totall 1%. William. 2.x 141. (1) 3300 ohus. 20 m/r - would 142. (2) 2300 " 10 m/v - (both vagicul) 143. (3) do Gonfr-adrenalin-10/020,000 hola 4 minetale - (6) do. 25m/r. refl. photo failed Sourthily - 4 ofur du m/r



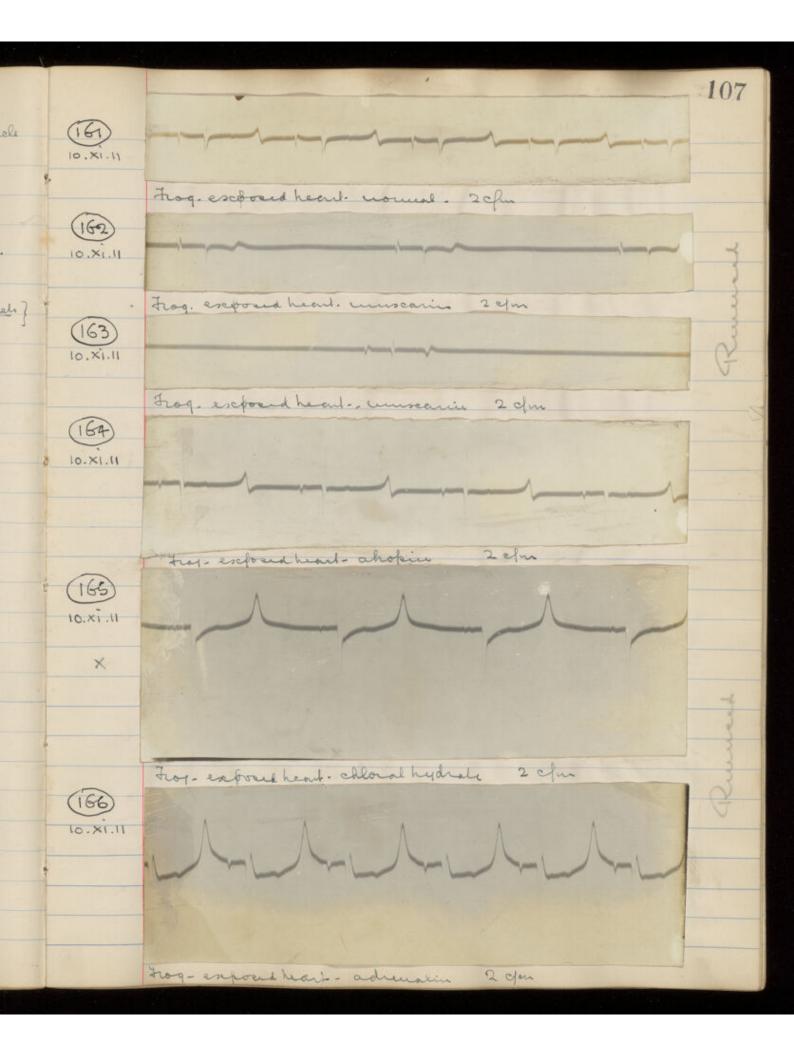
96 1911 Wach Shiff. 9 Lou: 3 (aulaher levimals of electrodes at hospital loose Inol clean - pakind moving) 144. (1) Lead I . 1100 ohus ++ m/v 145.(2) do II. do ++ W/V 146(3) do TII. do 32 WV nov: 3 Walla Cuduson (see later. lemminds of electrodes at hospital loves, 14 I had clean. Salund moving) 147 (4) Lead I - ohus - n/v 148 (5) do II - do - m/r (6) do III not laken - ho inneh moument

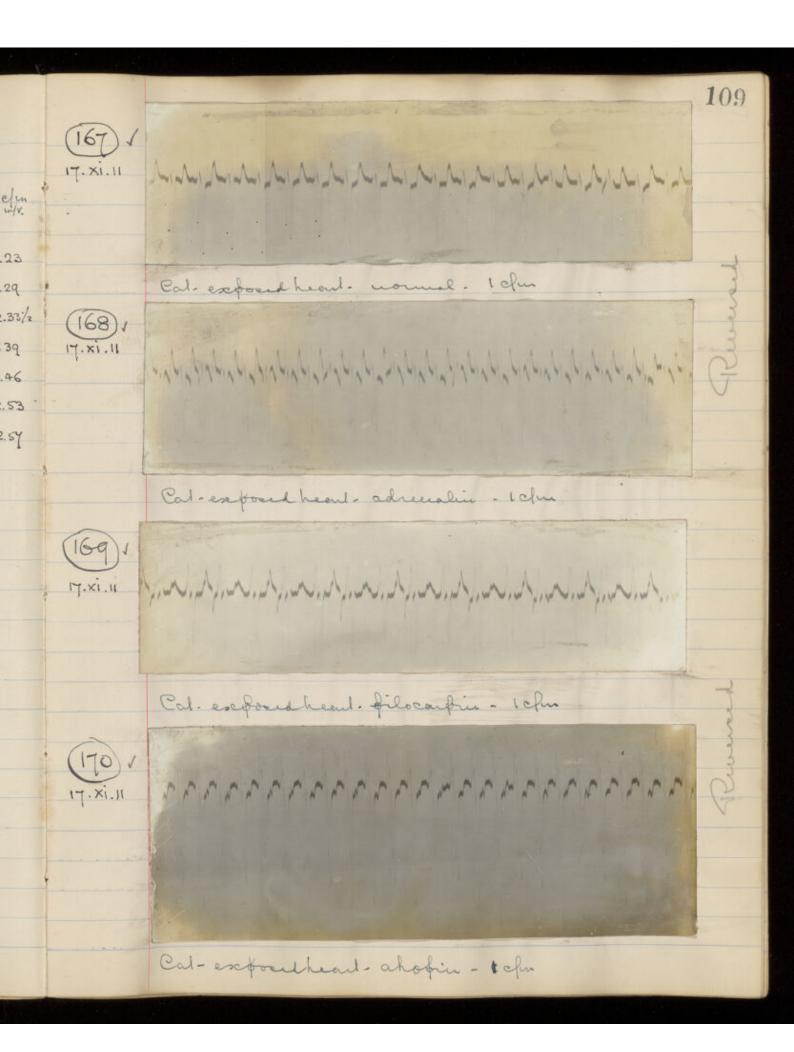






	106	Frog- auchity - 2 du pu ml. Lead right aurile	(16
1	Plov: 10	161. (1) 4000 ohers - ? w/v (workin res) 11.31. wound	10.7
The state of the s		162. (2) do do do \$11.35 consearing 163. (3) do do do do la lit. At do do refl.	10.
		164. (4) do do do \$11.46 ahobin } 165. (5) do do do \$11.50 ehloral hydral } 1 166. (6) do do \$11.52 adrivation}	10.
I			10.7
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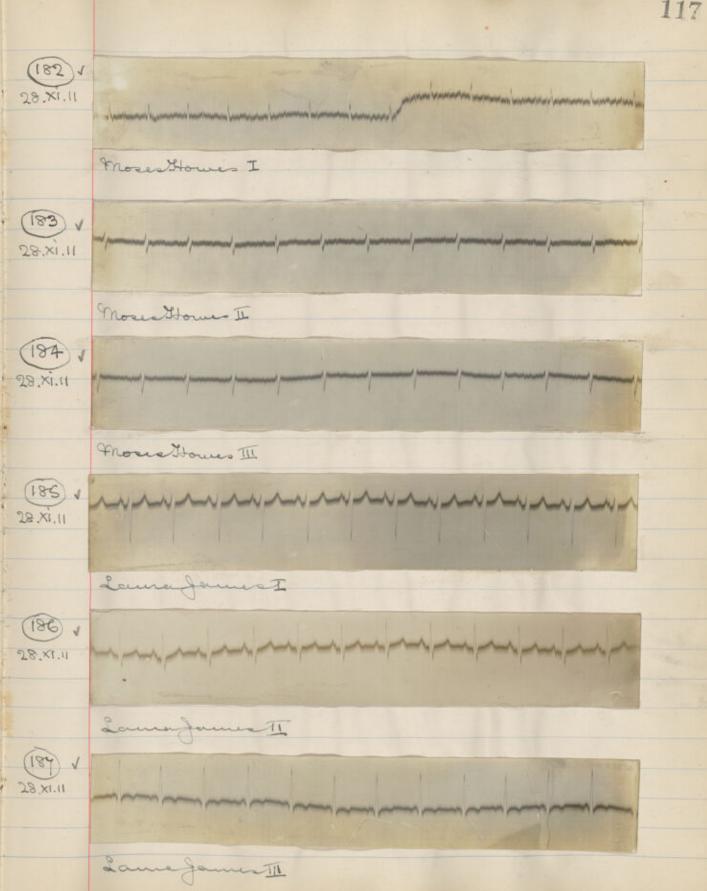




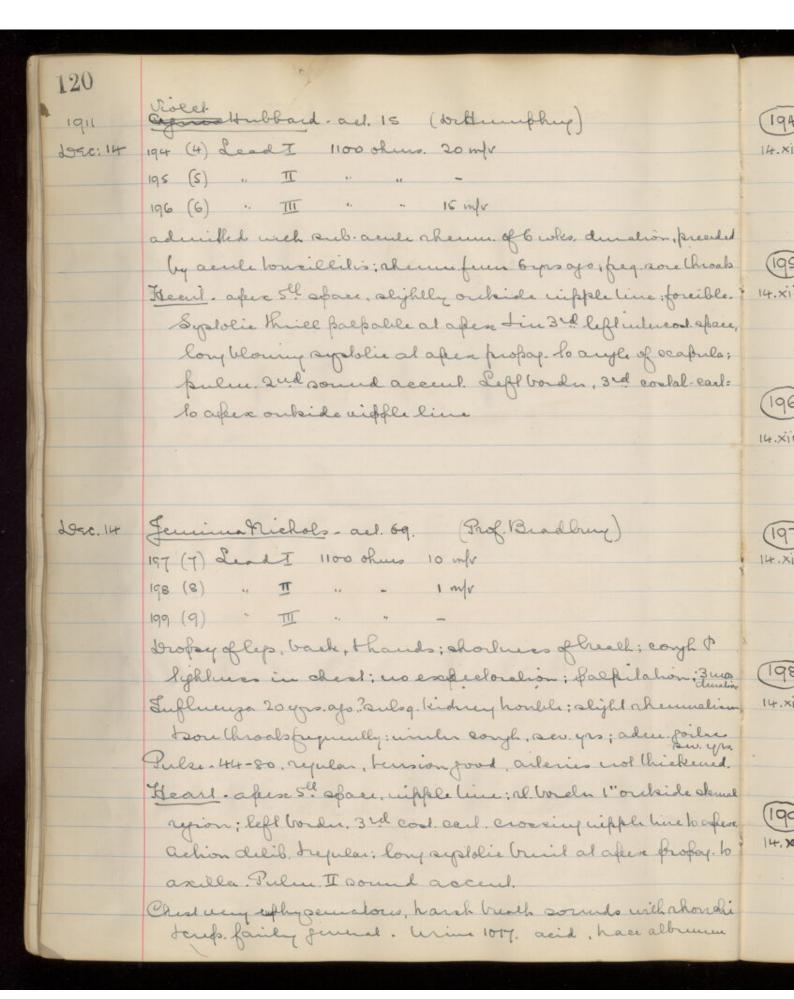


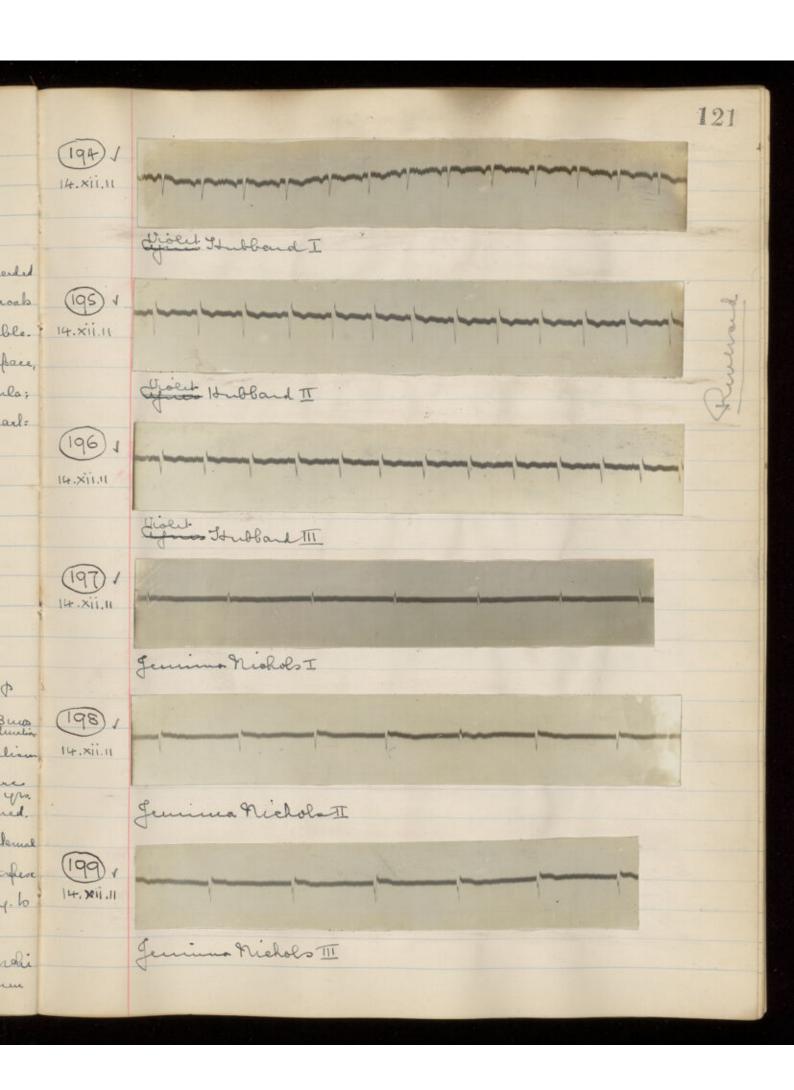
112		8
1911	Cat. methane- platimum needles in pedoral muscles-	(T9
Plov: 24		24.×
	Lead I throughout sensitually I afor four holy and rigidion. In left jugueles. 1100 ohius.	
	176 (2) 18 - adrenaline 11.44 balen 11.44/2	
	176 (2) 18 adienaline 11.44 laken 11.44 2 in of pendhud like (west) heard date upon work against a rive of pendhud like thought of the control of th	(T)
	178 (4) 21 - filocarbin. 1 c/c-20/0 12.9. laken 12.10	24.
	179 (5) 50 . ahofin . 1 c/c - 0.1 % 12.11 . laken 12.11/2	
	180 (6) 23 . huel. squill 1 cfc. 12.18, laken 12.19	
	187 (7) 25 . do 4 ofe- 12.23/2. haken 12.26/2. heard in delening	(17
	auinal dud	24.1
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118 Dorationers. T. 1911 188 (7) 1000 ohus Lead I 12 m/v Mov. 28 189 (8) " " T 33 " 1870 (9) " " III 10 " Thumslie fun 3 ms. go. On admis: cyanosis, upent dyspuses, esteurine P (180 unueva dropay, asciles. Jule repular, leursion food. Gearl, after in 6. wherepase 5" from windle line and alwood in a sciel line; at border /2" from slemmen, left (190 border begins upper border of 3rd coal carl thanks to afer 28.X outside uipple line. Land africal explotie propag to anyle of capula, sustreion of rough physicalis ; apololis buil al voilie orifice. Diagnosis. aorlie slenosis, mihal ment DEC: 14 Louis Savin. ad. 26. (Dr. Humphry) 191 (1) Lead I 1100 ohume 48 mfr 10,2 (2) " II " " 13 m/r 193 (3) " III " " Pain our fraecordia, dyspusca, falpiation, occasional 193 fainliers Leddeners, 8 yas. duration. Pulse ing affiel, soon because regular, trustow, arteries wounds Heard. sypl. Knill of after aprice Il space, wound position (193 Blowing angelolic bruit at agest, not propagated markedly 14. Xi in any direction. Pulm. 2nd sound accumbuled.





-	122		200
-	1911 bea. 16!	9. S. Woodhead. 200. (1) Lead I 1100 ohust 3. 5 mfv 10.15 f. melseg - 300/c brus aleohol diluted (= 2/23 whichy)	16.xii
-		202 (3) · II6.0 10.25	
		203 (4) . I + 2.5 10.46  2024 (5) I 6.0 10.45	20 16.xii
		205 (6) . II , -5,5 10.55 206 (7) I + 12.0 10.30	
		204 (8) · II · · · -5 11.38 · · · · · · · · · · · · · · · · · · ·	(200
	)	208 (Y) " JL " - 1110 (1.10	16.xii
			203
			10.21
-			200
-			16.X
1			(209
-	-		16.×
1			

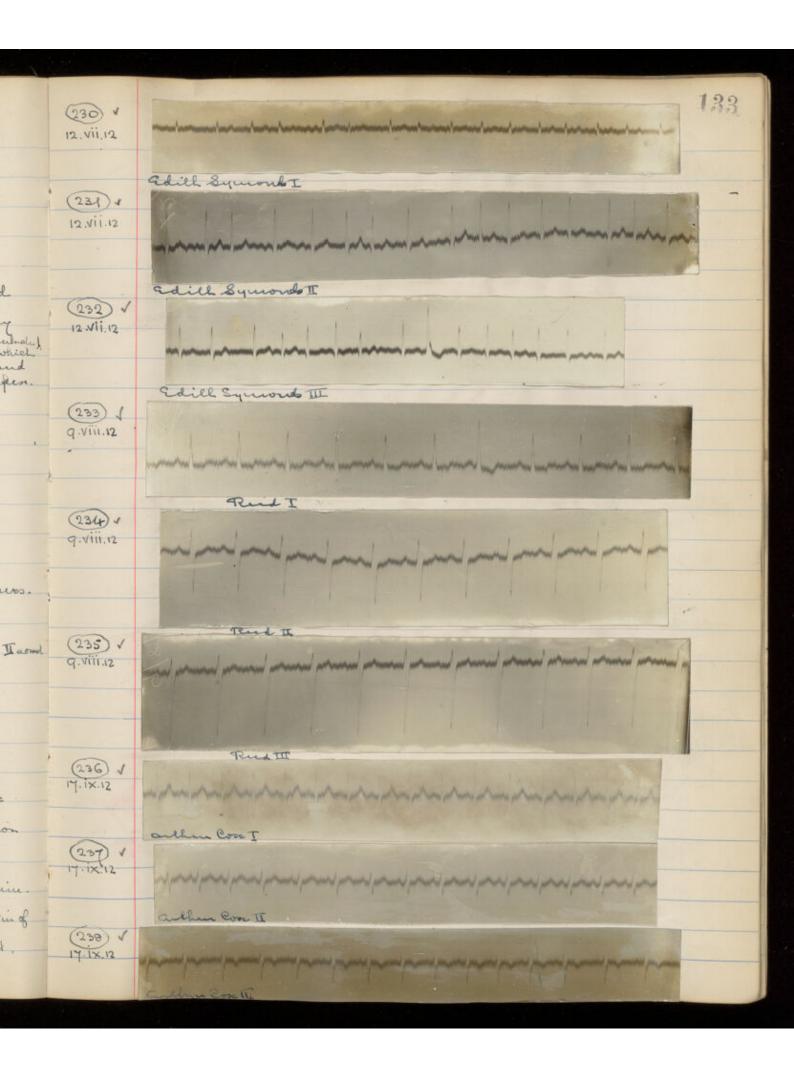
124 (subminos dap) 1911 Dec: 16 1912 Jaly. 28 Idedor Frike- act. 20. (beldeupphy) 209 (1) Lead I 1100 ohus. 10 m/r 210 (2) Lead III . . 29 m/v Shortness of healt, geddeness, feeling of faintness & achial syncope, cough. withal denosio Phenmatiefum, chorea, I measles 11 yrs. ago; no Lincomp growing facus or some throats. Pulse. regular, leusion low, rale average 100. Heart forcible diffuse after beat in 5th interest in wife Al. border, just beyondal sternal margin; lft. border, 3rd coel. carl. to afees of heart slightly or beide upple line. al aferse foresyplolie takord syplolie thill. Some puryst runbling before to sound, whis reflaced by long blowing appl. bruil propag to ascilla taryle of scapula. Pulm. 2nd sound account Hollowed by a well marked diastolic bruil. To bruils at the bace 4th aface Harhed worked these the propagation of these.

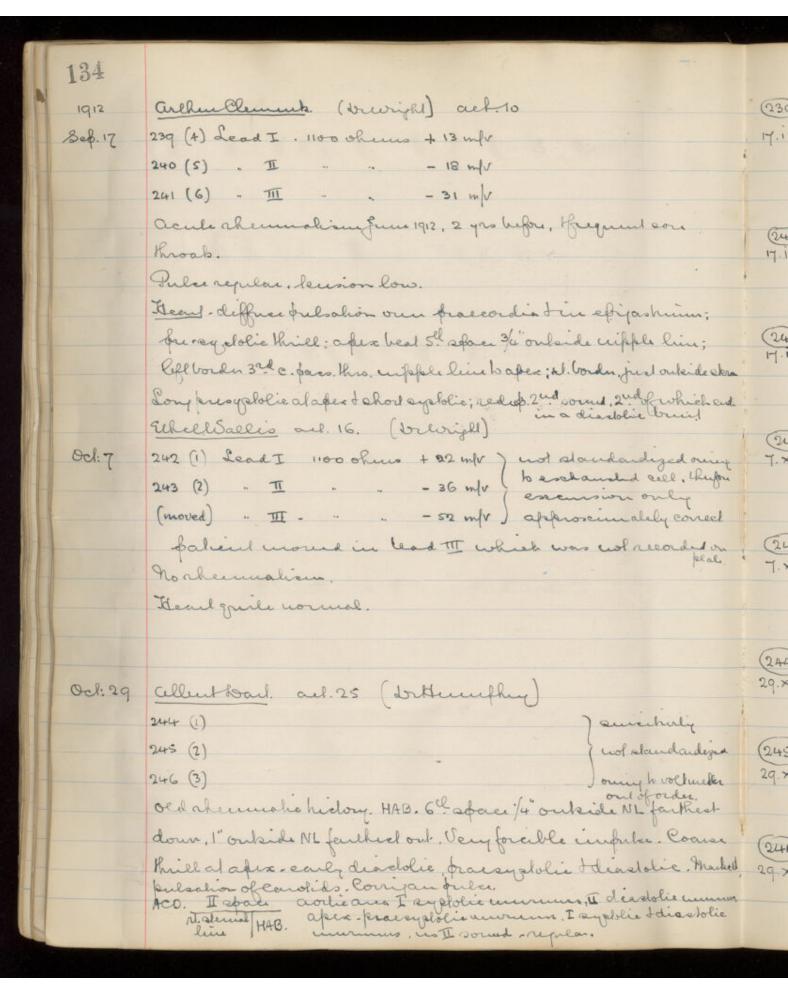
els shed.

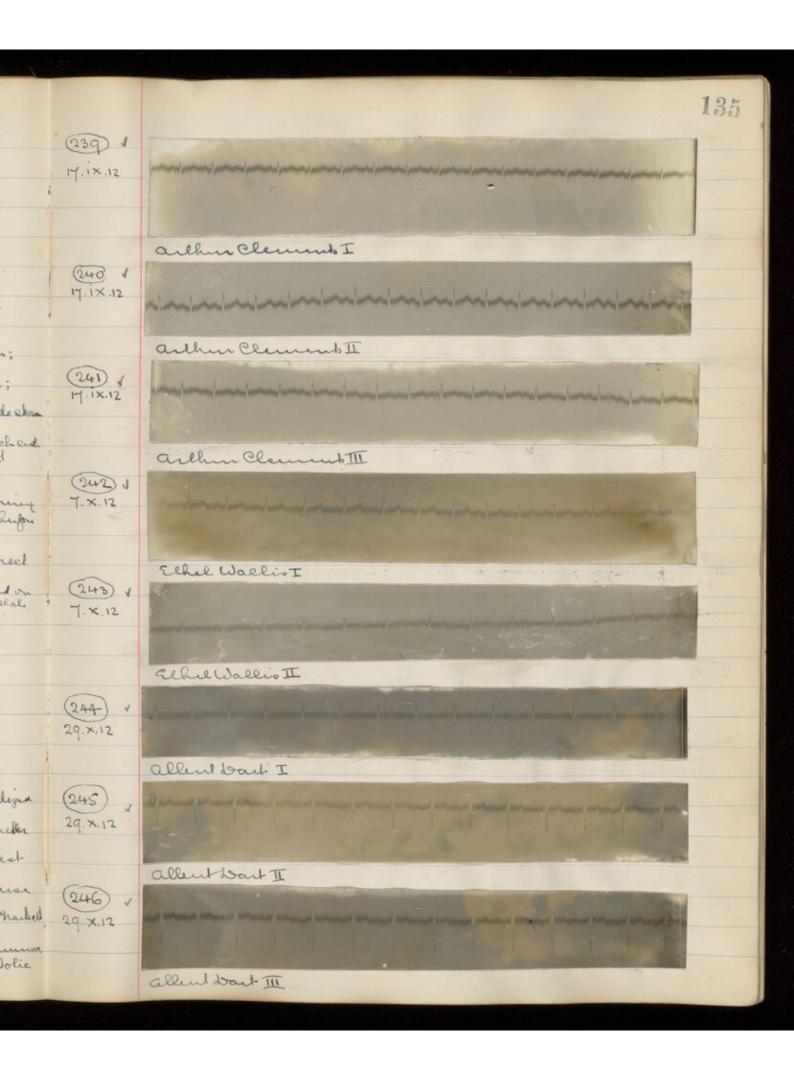
126 Ernel Forman 18 (dr. Henrifty) 1912 212 (3) Lead I 1100 ohus 15 m/v Jaly. 28 213 (**5**) " II " " 82 " 214 (6) " 111 " " 68 admilled with acule about alien. Rulse reselection low diesolie 28. Pulse repleusion low, dierolie. Theart. afece 5! of aci /2" outside infople line; olight praceed from nt. bondu just begond sterman; left bondu, 3rd cost caul. 21 passing to about "outside cupple time. Long syd. bruid at after propag. lo mid-ascilla biadolie bruil also heard. al aorlie-raehu sharfs closure of aorlie cuels with low filehed diaslolie bruit propay. down each side of sterrium. Julia Steploe - al. 43 (Orknufly) 215 (7) Lead I 1100 ohus 5 m/v 216 (8) " II " ... 32 217 (9) " 111 " " 32 Shortness of healt, palfilation, weakness, court, ordered When fer 14 yes ago; dry flering as a fire; slight rheundi 21 Has slight exauseis of face, life; yellowish hip of face, us acheur oflys; gours swellen from old rhumalism. Julae. amall exchairs, alrest pulse is intermettent, missing (21 a beal, after exceeding is becomes more disorderly Hearl afex 64 space in and axill line, us thill. 28. N. Vordu, margin of Sermin; left bordu. 3rd cost. carl. through ripple line lo adex. Sypt. brief at after propag. lo aryle of Scafula; closine of serie luna value clear Holland by long diast bruit Syst bruit also heard at artie Houling contrage (tally probably sum bruit and after). Old walls record presumes of a bruit yelding bruit.

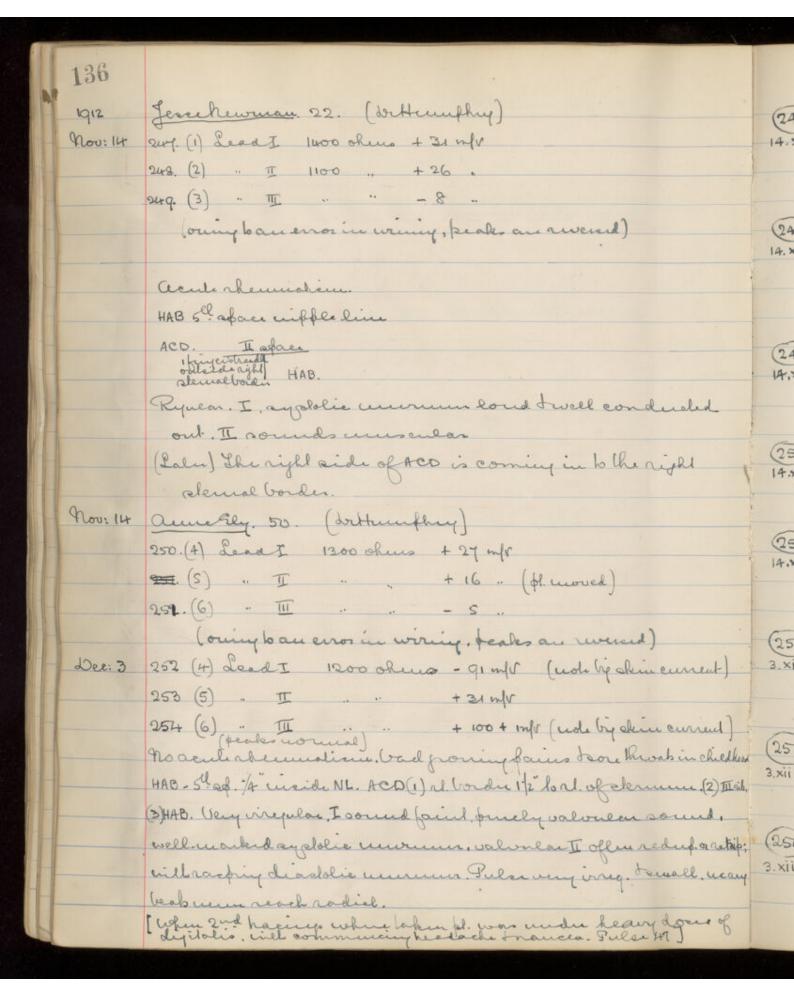
-	128 1912 afril 2	Jack Kicker.  218 (1) Lead I  219 (2) " I  220 (3) " III	2.1
1		(sechos 93-94-95)	
ı			
1	10000		2.14
+			2,10
1			
1	1		
1			2.iv
1			2.10
1			
	abil 19	Amothuman (Liea) (50) (Dewight)	
		221 (1) Lead I	22
A	1	222 (2) I	19 iv
-	1	223 (3) III	
-	-	Theart. HAB. 1/4" inside mid-clavicular line, 5th space.	
ŀ		ACD. rightstemp HAB Sounds amuscular: I, long bound any dole	19.10
ŀ	1	unrum will conducted on boodeds; I sound, incide the	19.10
		afex is heard a short persypholic curring. Pulse repular	
		en shythus, but not en volume.	(200
			19:11
-			
1	-		

130 (Paof. Bradling) Win Blogd 1912 224 (1) Lead I . 2000 ohus + 30 m/r May 3 225 (2) " II - 110-0 " - 8 " 226 (3) - 111 - .. + 12 -Mathew Threadgiel act. 5%. (brokenighy) may 3 227 (4) Lead I 1100 ohers - 20 m/v 228 (S) . II 1300 . - 66 m/v 229 (6) . II .. . - 61 m/v Ingheed, us ademuation, us S, old soldier. Heart 400 obscured by emplyeems, not persusable. HAB, not feel. Errepulan, frequent escha syplates. Sounds observed by employeems, loud sydolie unrum conducted lo some. Sounds rather aimsender. Harchmenly. (220 3.V. 132 (Dr. Bradbuy) Edelh Symonds act. 17. 1912 July 512 230 (1) Ledd I 231 (2) " II 232 (3) . 11 aculo Rheumaham at 7,812, H3 yes old. Hearl. 10. Rlaide 2" ont. dernal border in ili aface, 1" below serfhord carblage, l'ordside unfile in vi aface, ili rib. Sounds monbedly irrepular. al akes. Not sound, loved applolie murum. It daemont sometimes reduct. Thus a rembling diasolie murum. which is not constant, occas. escha sy globie murum. Pulm It sound much accord. Diasolie thiel. Luthelse very heaving over after. F. Reed ad At. (Drwight) 9.41 233 (1) Lead I 1100 ohus. 30 mfr aug.9 234 (2) " II " 41 mfv 205 (3) " II " 10 mfv no nheumahem, demies S, old solden. HAB-50 space, wifefel line. ACD Valeruse HAB. allacks of lachycardia, rale 160, sounds clear, co murums. Belwein the allacks renegular escha syploles, rele to. Tracey folic murum, I, ambling on plotic murum, acent I and arthur Cox . act. 11. (Delvright) Def. 17 236 (1) Leas I 1100 ohurs. + 22 mfv 237 (2) . II - 36 . 238 (3) . II - 52 ° always had vague bains; measles; whook cough; and acube sheumaliem Deceque, acute sheumalism legon adunasion Tulse regular leusion los. Heart. rehaction of paccordium, after 5th space in nipple lime. lege border, 3rd ce. wiside upple live to afex; el border, al margin of elemme. I'd sound foulially reflaced by apolice bruit bulu. 2 nd sound assembiated.

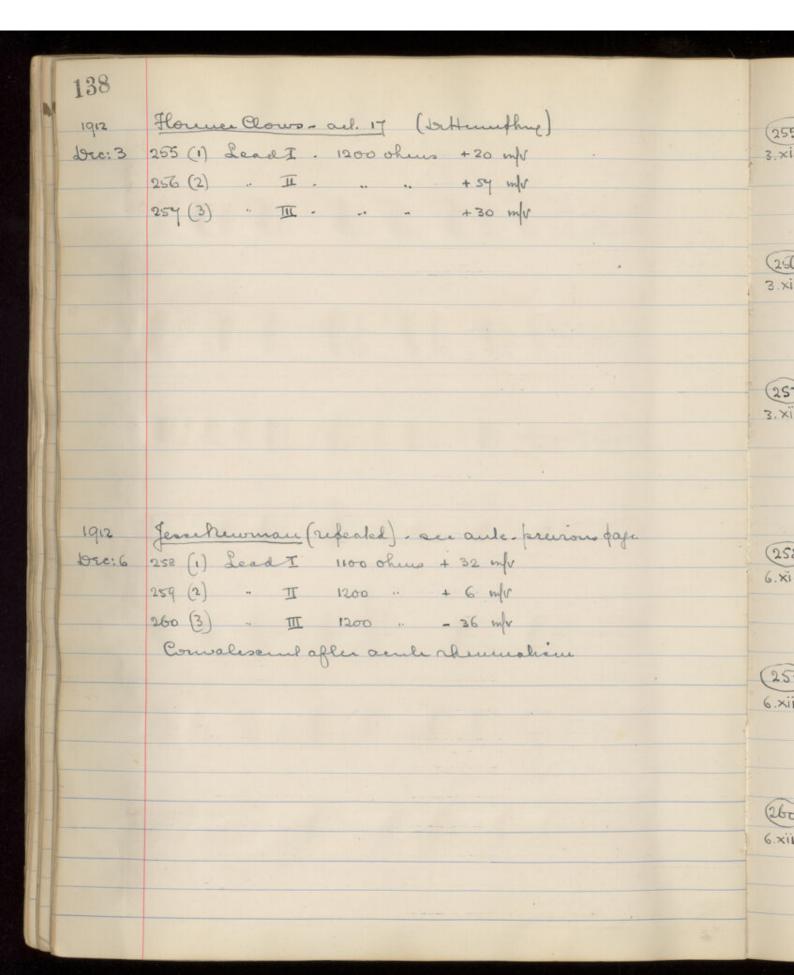




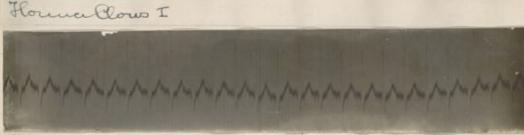




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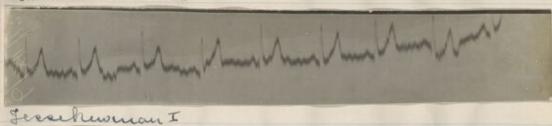


255 3.×11.12 256) 3. xii.12





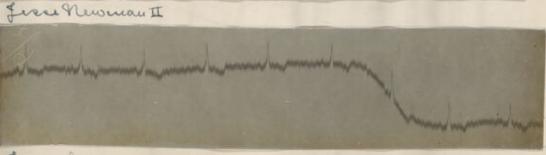
258 6.xii.12



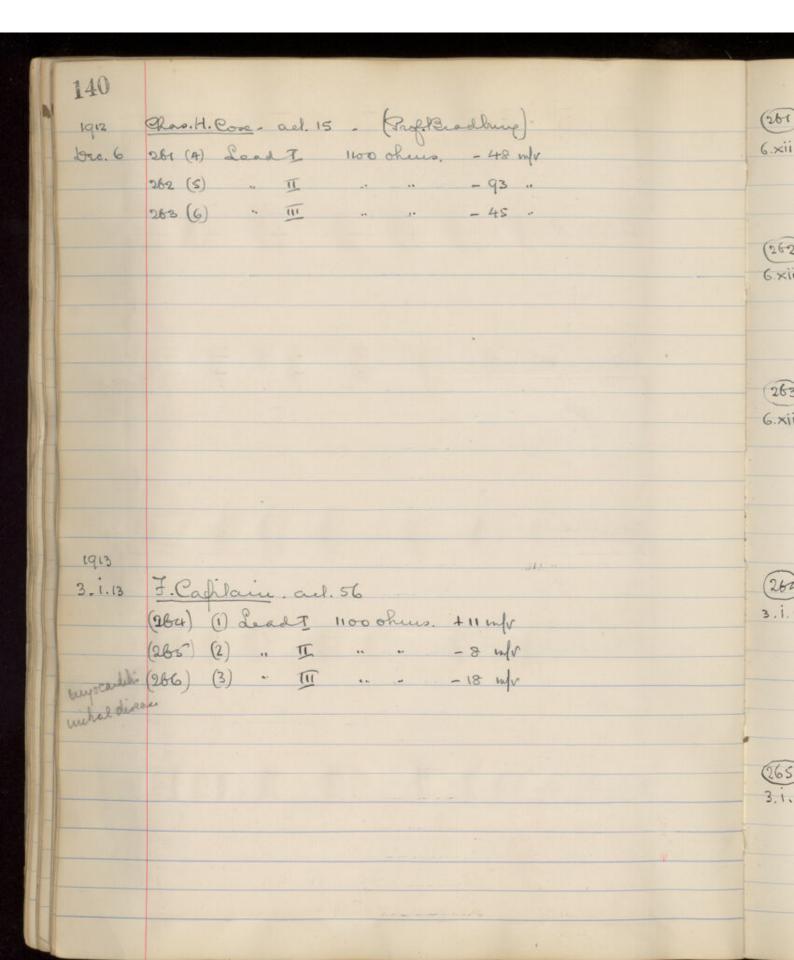
(259) 6.XII.12



(260) 6.xii.12



Jessehewman III



(261) 6.xii.12 What Cose I

Addenbrooke's Cospital, Cambridge.

Chas. H. Cosc. 18.

acula sheumalin noo. 2 hd

Heart

HAB. 54 es. /2' maile NL.

R.S. b. HAB.

Soyund T. muffled, with a shoot very roft SM

II. clear but felower by a

bleure- seriears. morning.

dorlie sounds. I II, famil

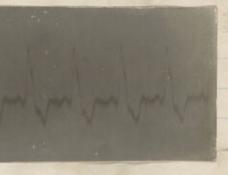
Pulmonary. I II loude than a ordie I

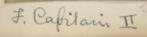
marked puls. in spiskem notch, toarolid. Capillary pulsalia.

Pulse weesel distuidly thecken, along tow leverin with very greek tranked anytheries that

· Millian Minima







## Addenbrooke's Hospital, Cambridge.

Chas. H. Cox. 18. aculi sheumahim 900.24 Heart HAB. 54 sp. /2" winde NL. QD TIT R.S.G. HAB. Sounds T. muffled, with a short very rofts M II. clear but fellowed by a Slewro-surcart. human. aorlie sounds. I II, famil Julmonary. I, II louder Chan aorlie I marked puls. in spistern nolch, tearolid. Capillary pulsalion. Pulse-versel distuidly thecker, elong low tension with very gruet Imarket systolie vise fall. se how. def. diadol. umrum, best heard over derum alt. interspace. Jone ontal 212 hor. diadolie murum heard over a orlie carlilago very localized, not conducted donn derum. Dre: The lail few days. developed anoquem luf. dureg. Julse, bul dischayed. Howevelleus. 17 HAB. 54 sp. and ascill him
ACD. The space.
3/4" out RSL HAB. Valent fanlin ares. I Sta. II tt.

(261)

6.xii.12

(262) 6.xii.12

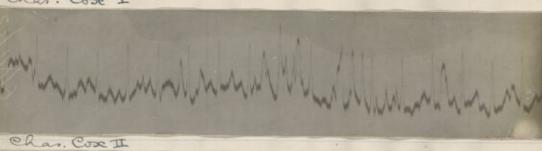
263 6.xii.12

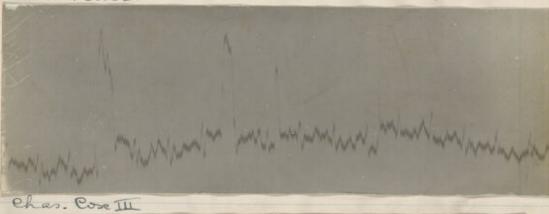
264

3,1.13

265











#### DR. HUMPHRY.

Register No ......

Age. Single or Married Abode. Occupation. Name. Result and date of discharge. Date of Admission. For what admitted. Elizabeth green age 33. per Humpbez Date. Exaphilhalinic goutre - history of 6 monthes . Palfitations . no orhumatic history. Heart. A.B 5 th sp niffle line 4 inch outside night sternal harder TV out above. trafied, regular unless excited when it becomes arregular " Sounds clear. Emily Jewes 16. De Humply. ctule whemation & years of when & years old followed & heart trouble, again when 13. × 14 years old Heart 5th space and axillar line, my farible.

My fin outside night sterned harder

TT costal space above.

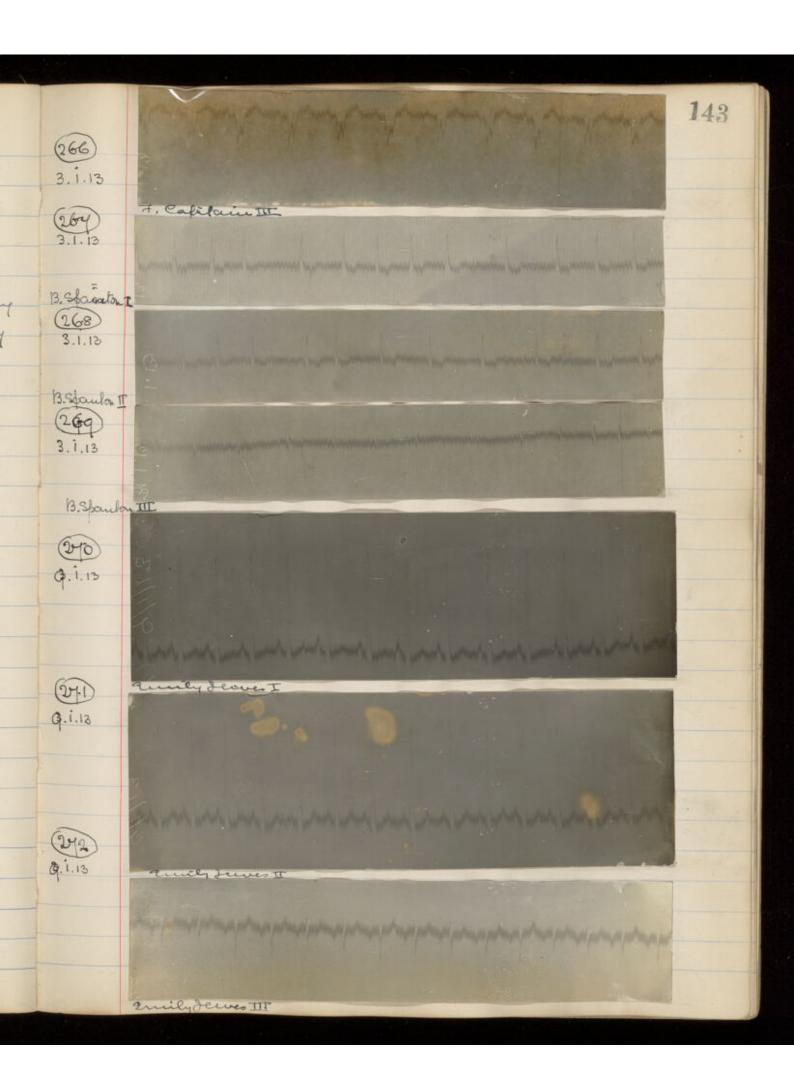
Emily dewes III

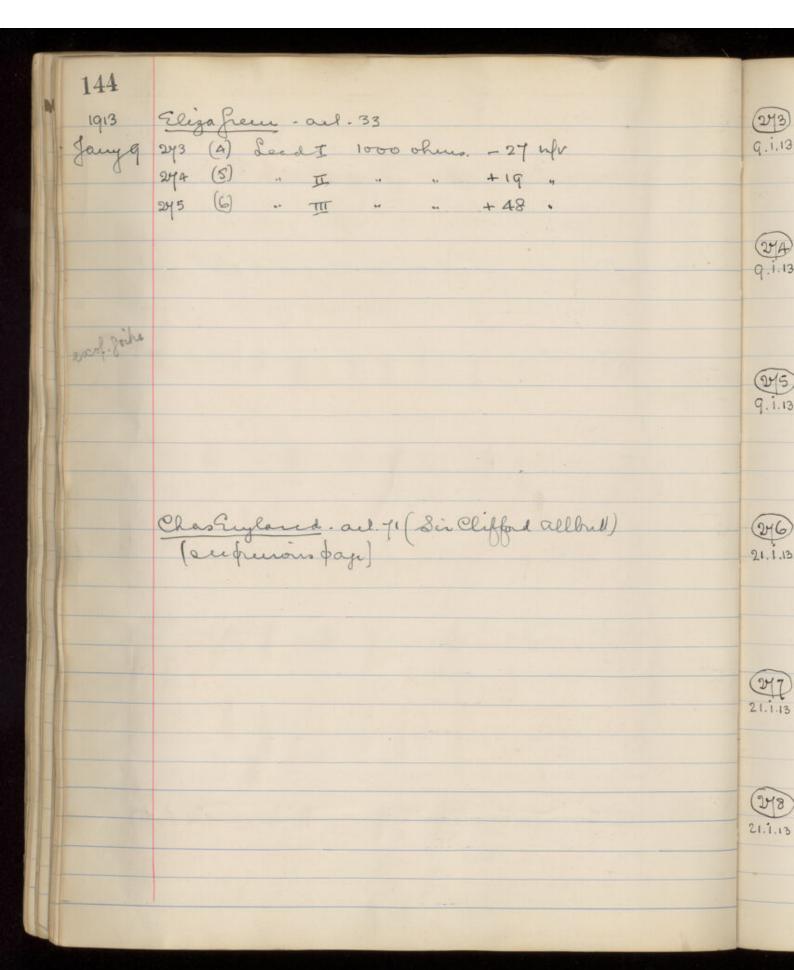
#### DR. HUMPHRY.

Register No..... Age. Single or Married Occupation. Abode. Name. Result and date of discharge. Date of Admission. For what admitted. Date. Elizabetto Green age 33. per Humpberg Exaphilhalinic goutre - history of 6 mouths. Palfutations. no orhumatic history. Heart. A.B 5 th sp niffle line I wich outside night sternal harder IV out above. trafied, regular unless excited when it becomes arregular . Sounds clear . Emily Jewes 16. De Humpley. deute ahumation & year of when & years old followed of heart trouble, again when 13: × 14 years old Heart 5th space and anchar hime, my forible. As ; in outside night sterned harder TI costal space above

Sounds at aper Praiseptohi, accentuated I, IT sound after reduplicated, long diastatic mus It antre area. double antre murunt. Pulse or - Covergen. Capitaine 56 Der Humpling. no rhumatism Heart AB 5th space ruffle line. right sternal harder to rile above marked pulsation in was jugulars, low blood pressure no murmurs, sounds are very torreless + scratchy. Irregular at times, with some entra systoles, especially on admission, later they become chas Cox 15 Prof Bradlewry. Come in with acute ashermation no previous attache, but hashad growing faires Heart HAB 5 space 2 in winde supple line III rile above. Right sternal horder I, soft systalie nurmer, TI, pleuro pericardial rule. I, II, there is a diastolic morning, which is not constant.

Date.







The spirit was a proper proper to the second proper

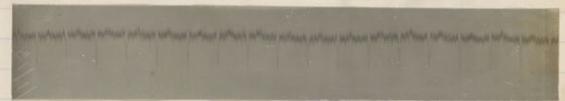
ElizafernI





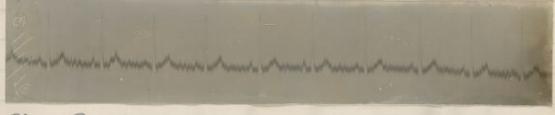
Eliza frem II





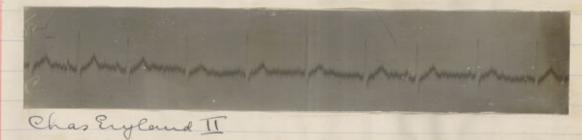
Elija fem III





Chas England. I



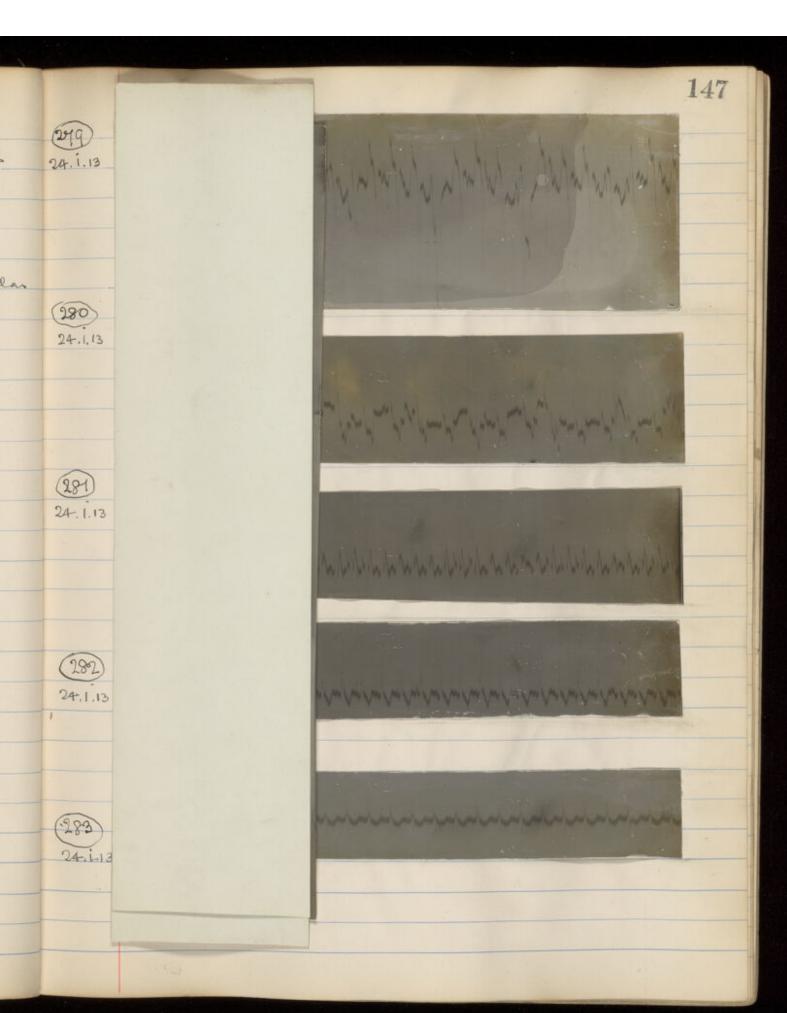


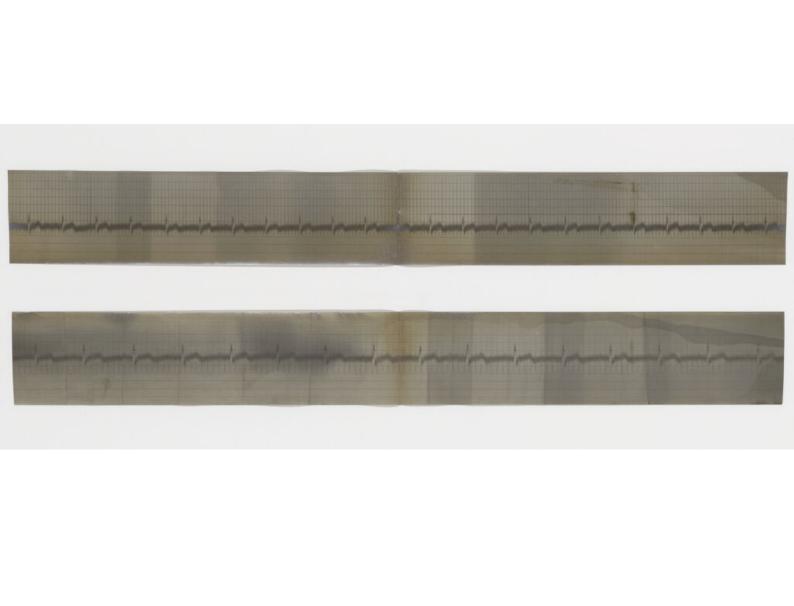
248



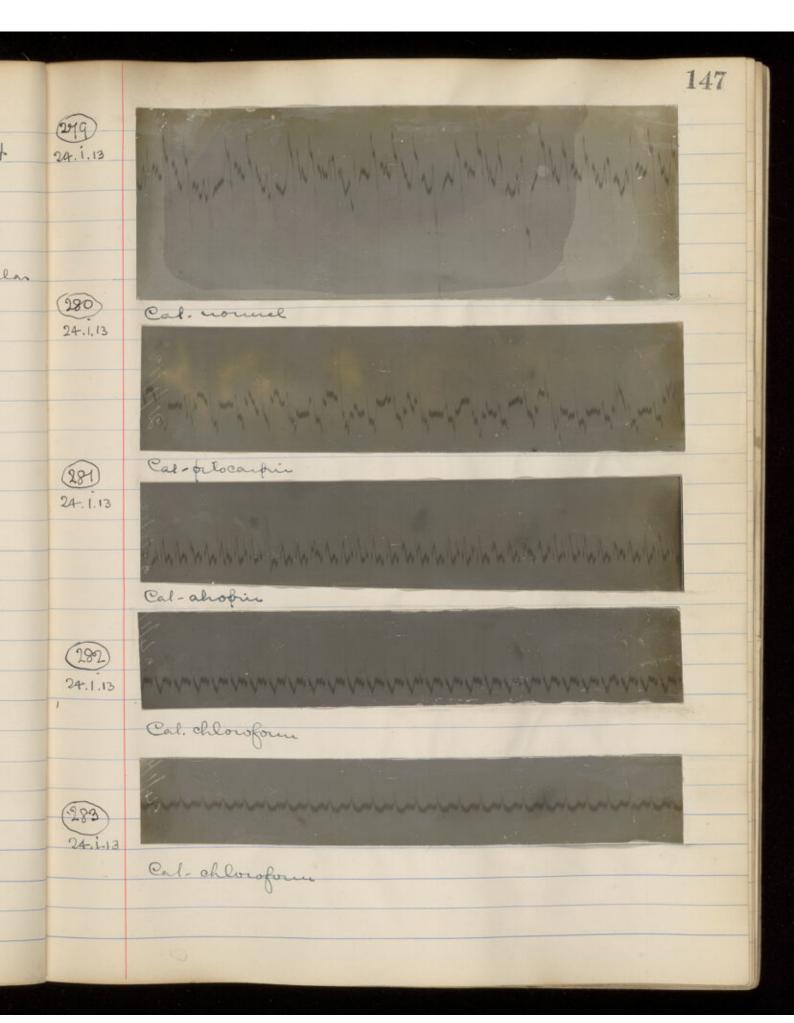
Chas Cryland III

146 1913 Jaly A Cal- eseposedheart of needles to S.H. junction t avla. sursilvily 0.25 cfu pea mfv. mechanical hacings laken respiration rapid. 11.32 2 mis after 1 solg folocarpin in jupular 11.35 Imfgahopin 281 (A) 11.40 Chlowform wihalation 282 (5) 223 (6) laye dose of chlowform 11.45

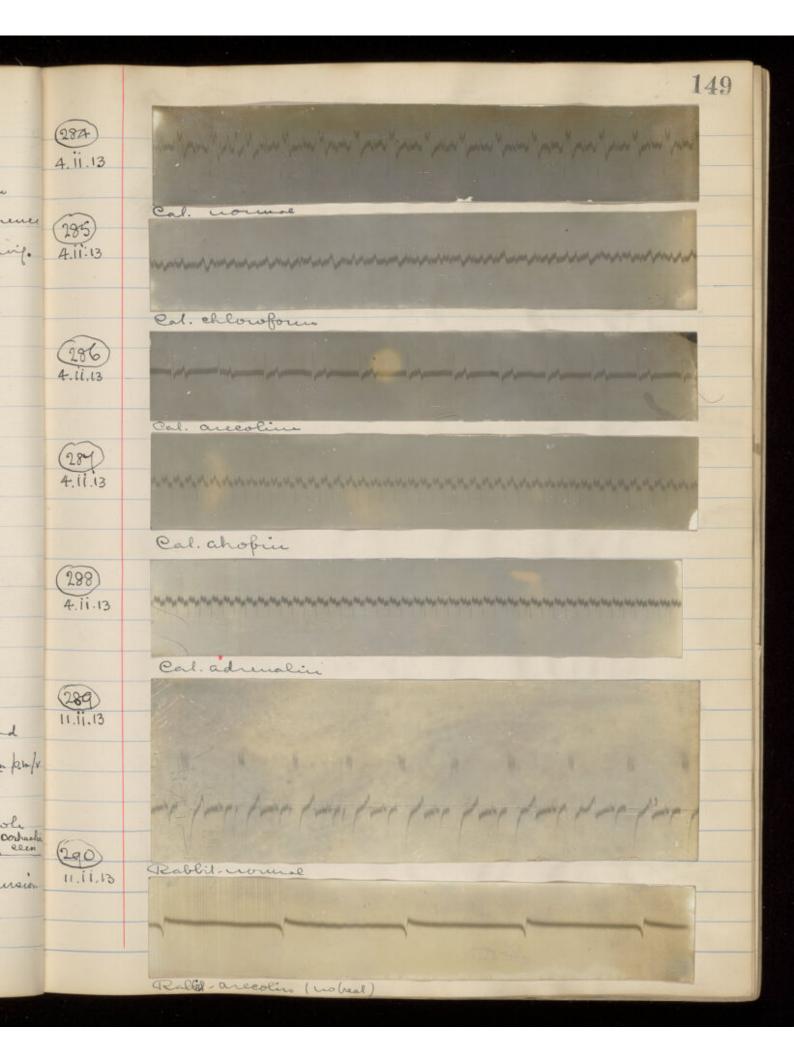




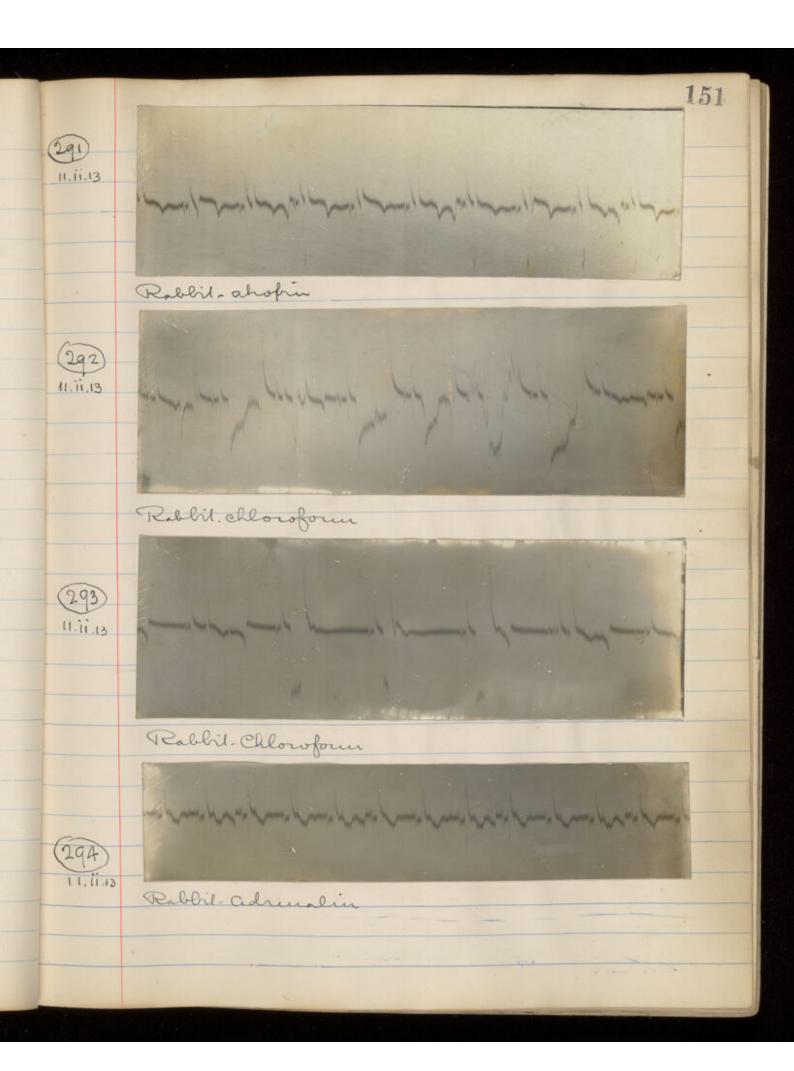


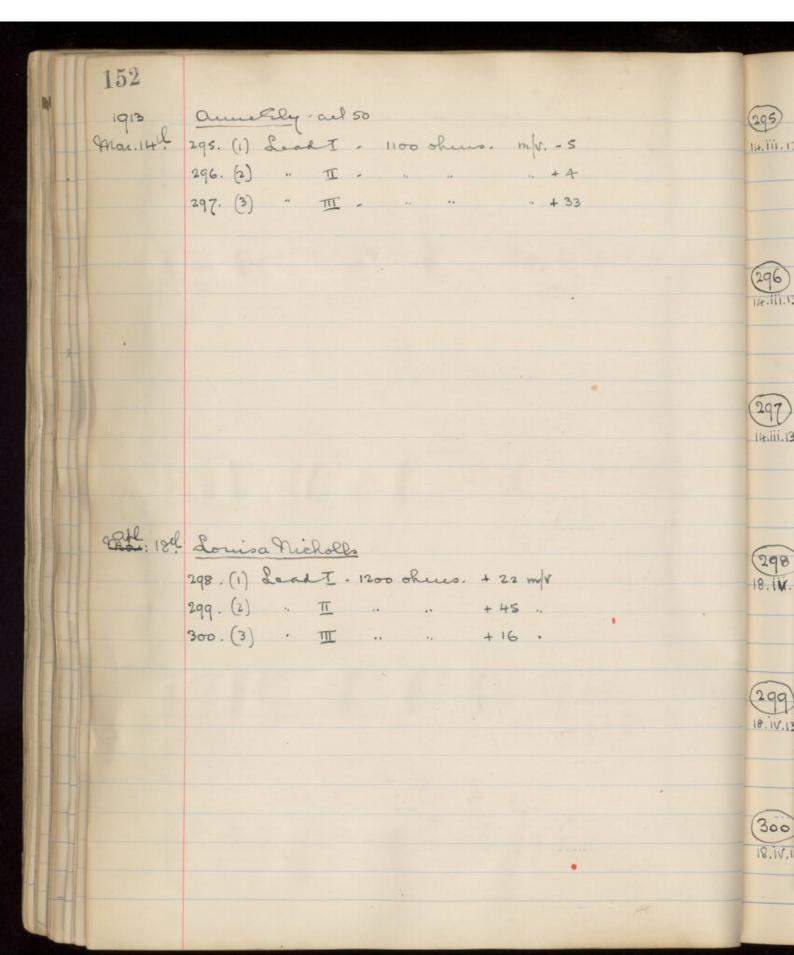


148 1913 Cal. pl. midles in al. Heft feet unseles. Febry A 4.11.1 Mechanical hacingo labour through incision in rhande of neck & full of carolid. Therek interference 185 ne talle by ferrodical synchronization of treathering. A.ii. 284 (1) hours 11.4 285 (2) chloroform 11.6. heavy doe. 286 (3) arecolue Info 11.14 - heard slowed. 284 (4) ahobin - 1 m/g. 11.19 - 3 curies. Infor agen 288 (5) adrenalin-/50 m/g. 11.30 -(6) chloroform - heart very week (plate stoilt) Globbis Heart-excised - 2 of weedles flaced wear 3. A. junision & avila. Heast balked will oscygenald waln. I mechanical hacings laken. Sensibuly/2 of in p. m/v 11.42 head stoffed wiel accolies. 0.04 m/g - woll effect of dimmedior of overpen drof, no cortaction ahobin - 0.1 m/g 11.46 291 (3) 11.56 11.11 292 (4) 12.3 chloroform - was effed, Intamell execusion 293 (5) do reflect worm of 12.12 adrualii. laye escrip. 1/50 mlg 12,17



Faly ! Robbit (corld) 11.ii.1 29: 





# Electrical Department Mr. F. SHILLINGTON SCALES.

Name.	Age.	Number.	Physician or Surgeon.	Ward.
annely	50		Lothunghu	Hallon

297)
Date.
1913
Man 14

Report :-

as compared will havings taken nov. 14/12 the aurientar fibrillation, though whill evident, is less marked, the heart would affear to be healing rather more shough. There is still marked megularity.

298 18.14.1

as compared will having laker Drc:3/12 where the faheed was wired under the influence of digitalis, the heart which was their astring very slowly & weakly. has become in returned to more to its usual condition, but there is no longer the almost gomfel.

(299) 18.1V.13

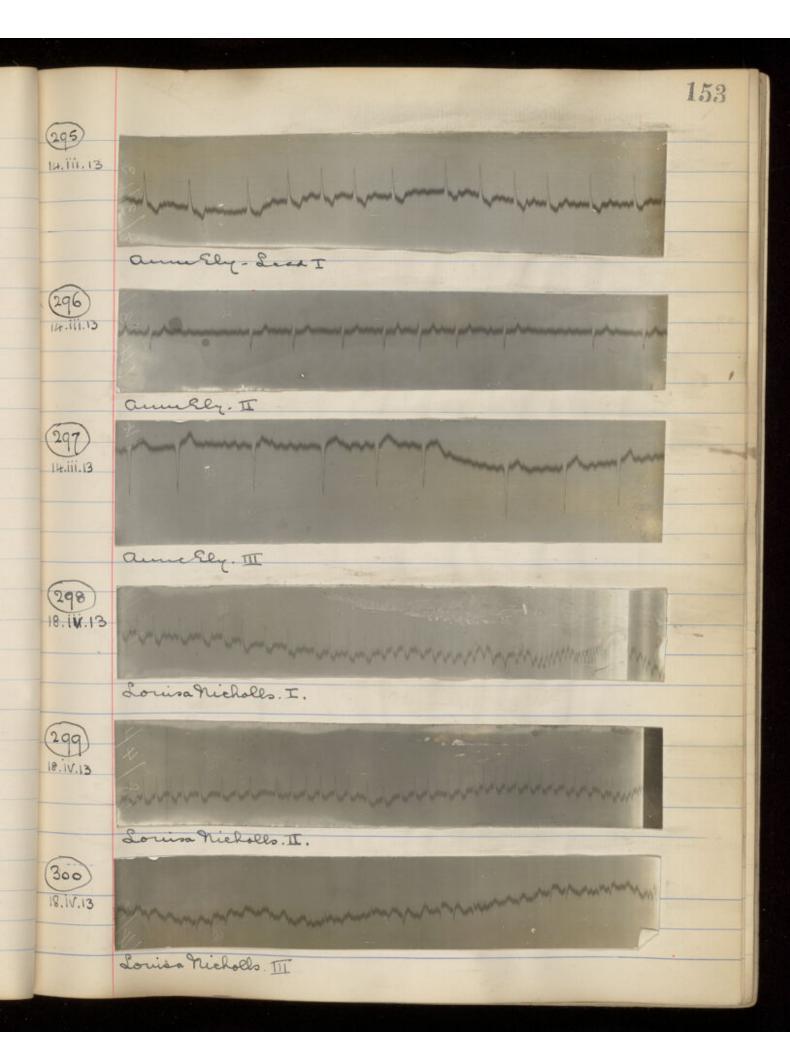
300

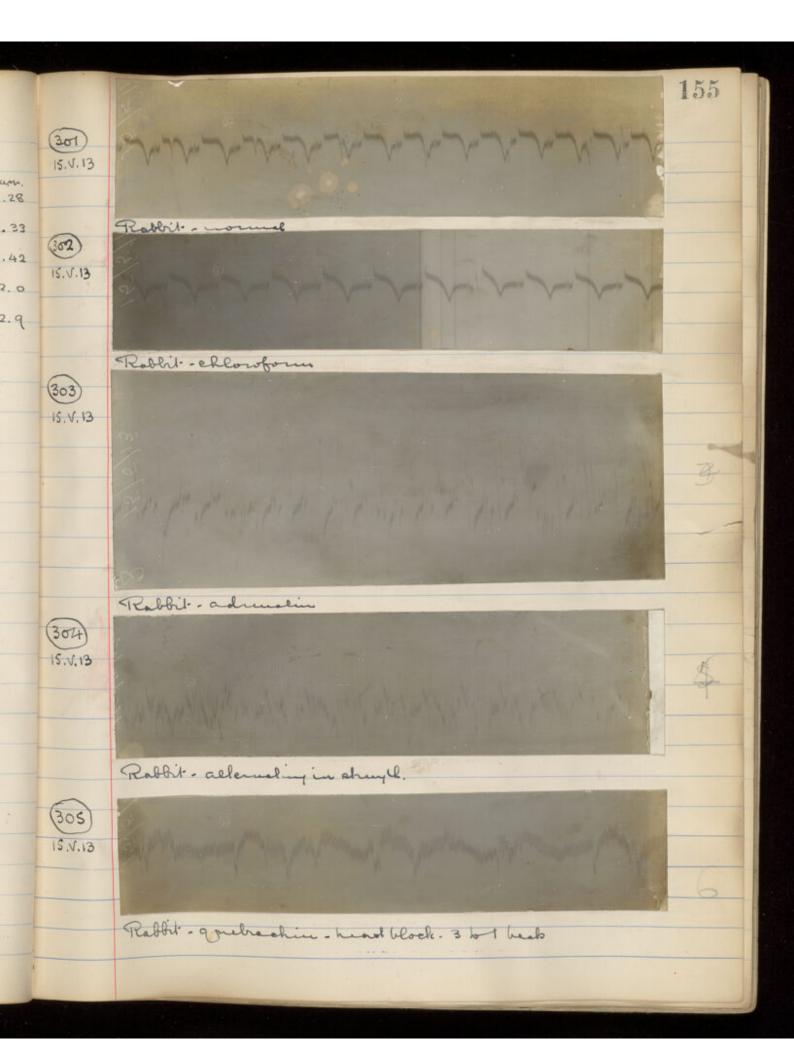
Louisa nicholls III

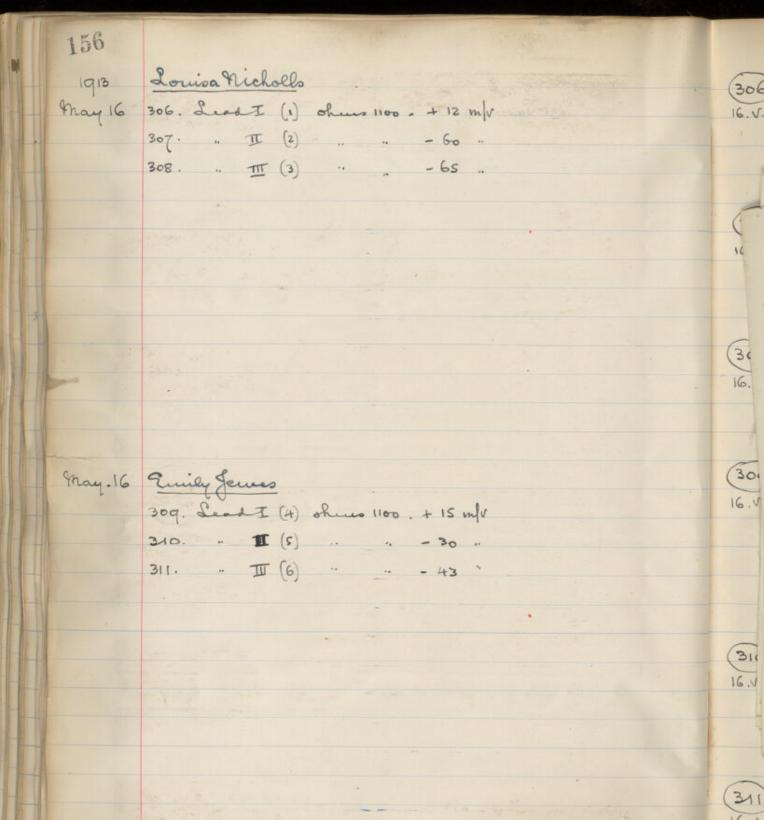
# Electrical Department—Mr. F. SHILLINGTON SCALES.

	Name.	Age.	Number.	Physician or Surgeon.	Ward.					
a	mely	50		Destunthy	Hallon					
Report:  Pate 1913 Man 114  Report:  On comfaud will havings baken how. 114/12  The aurieular fibrillation, though shill evident, is less marked, the heard would appear to be heading rather more shough There is shell mearked irregularity.  On comfaud with having laken the: 3/12  Where the fahend was wined under the influence of digitalis, the heart which was then ashing very slowly to weakly, has become a returned to more to its almost gomfilm which which would condition, but there is no longer the almost gomfilm which fibrillary condition										

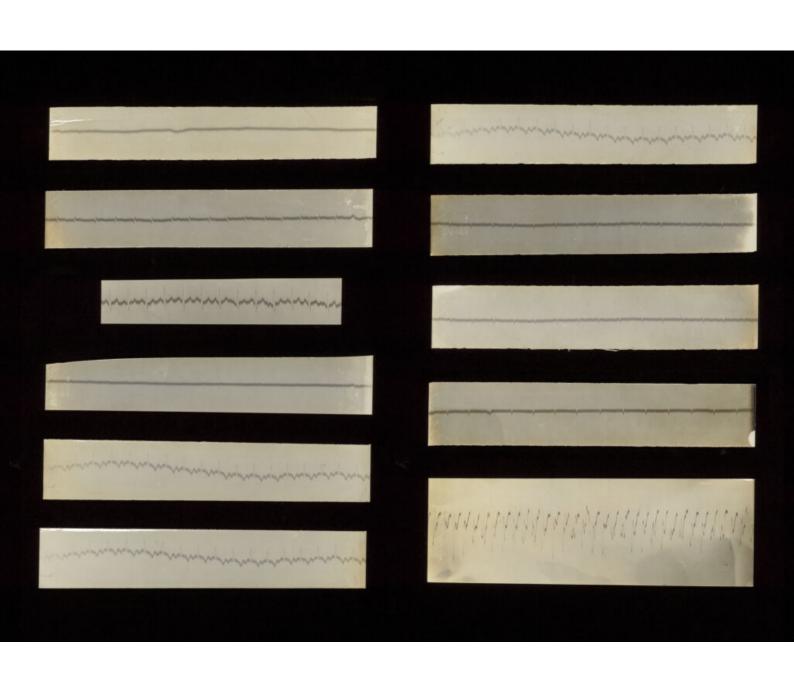
Date. Louison Nichollo vrejulen. deur annie fib. us hypen. C. Lophan viner l. v. hyp oug in auric. a hyp.







Quily Jews III

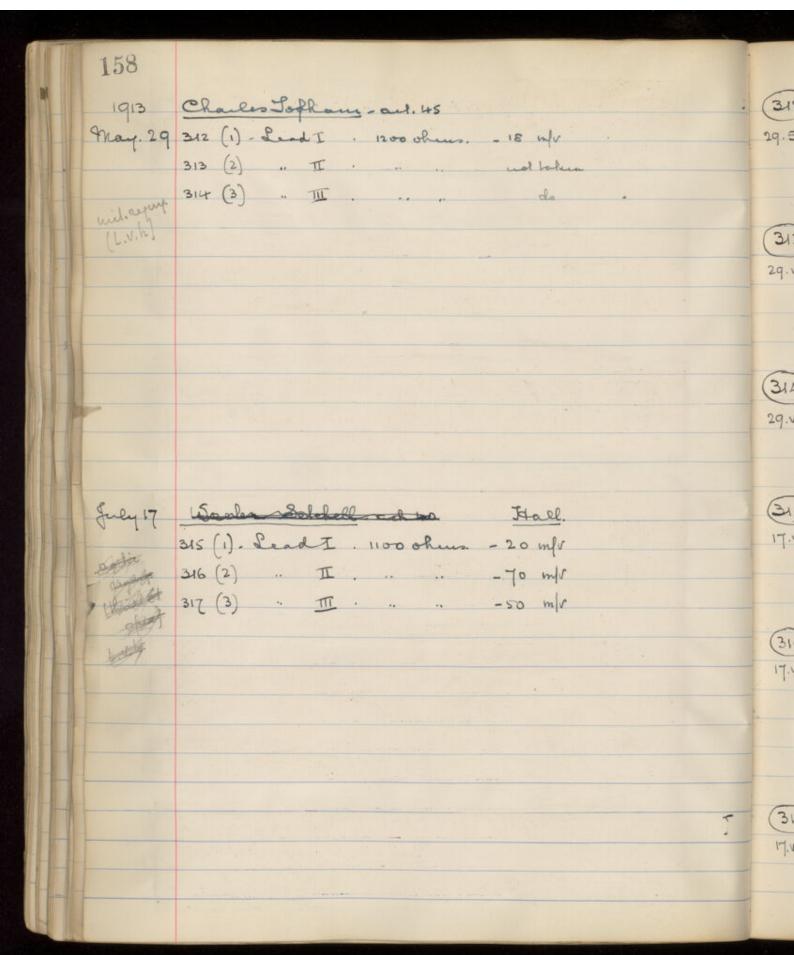


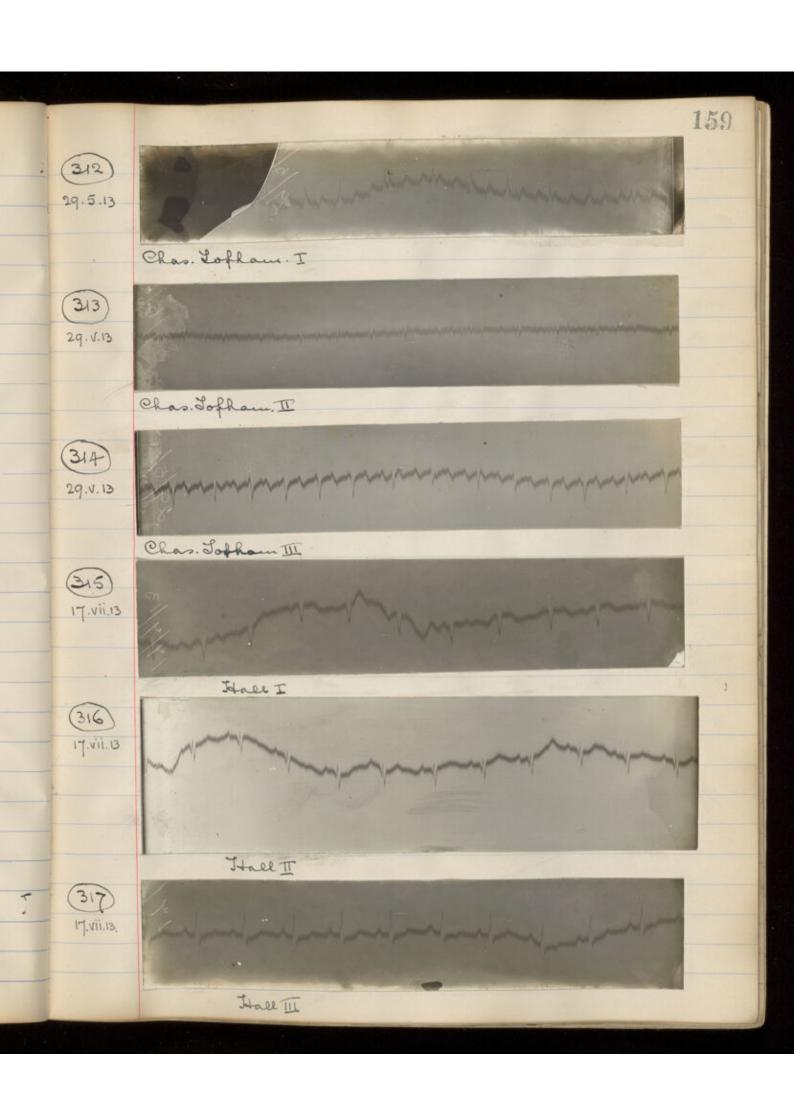
Mo 1. 14/x1/11	7. A 15/x1/11
702 14/x1/11	70 5 15/x1/11
2. 2/H/12 Tuplicate	7.5. 15/x1/11
40 3 14/×1/n	706 15/x1/11
70 4 16/x1/11	174
70 4 15/x1/11	(8) 17/x1/11 Impliente

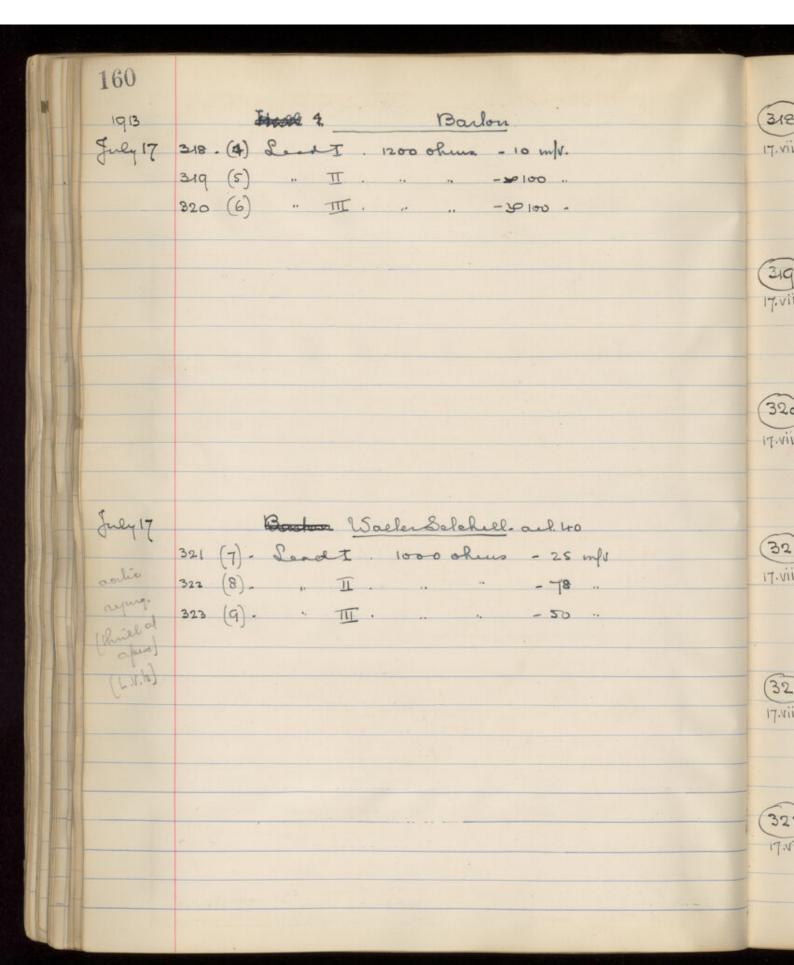
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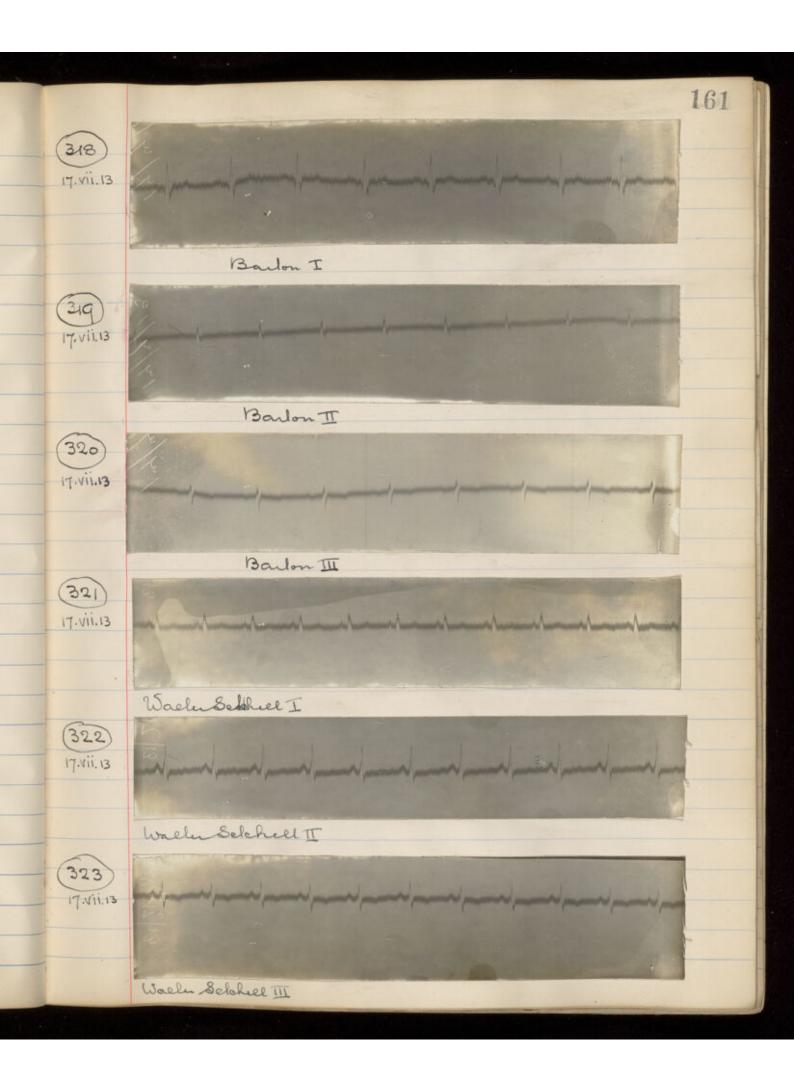
a ven of theythen Cadis De is willy to tea free huntelf for tainer till for anye a him an verient heckengie w be for there a: having as he has ten line Les a folyfulle team of the 2 Hunge had . 6.11

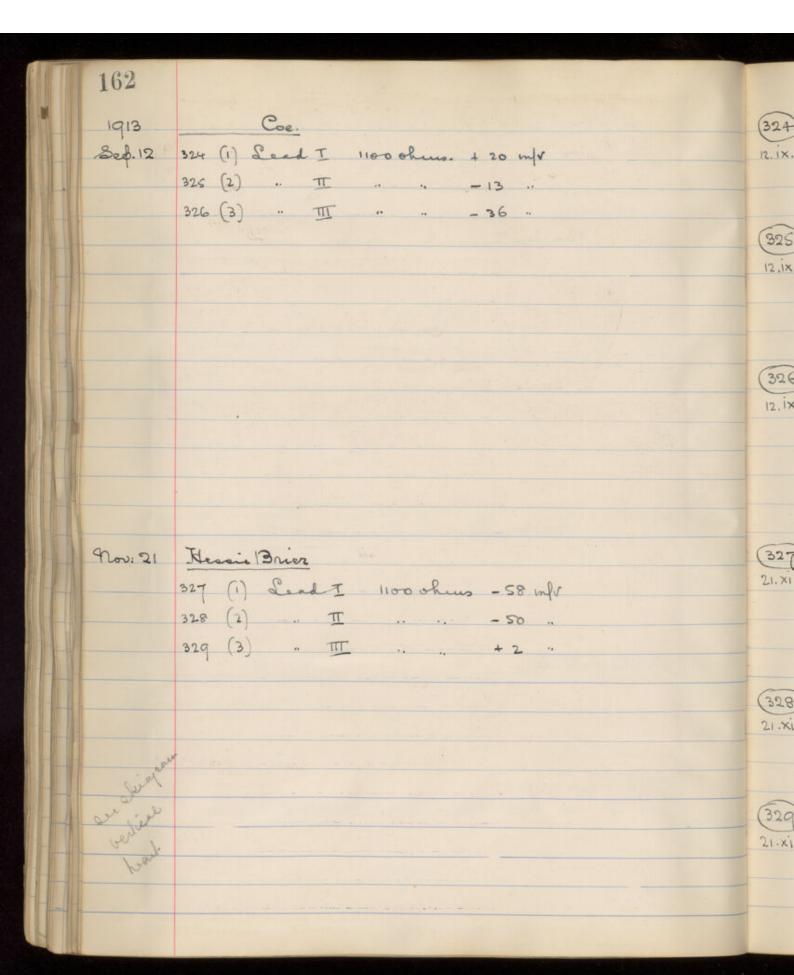
Quily Jeens III

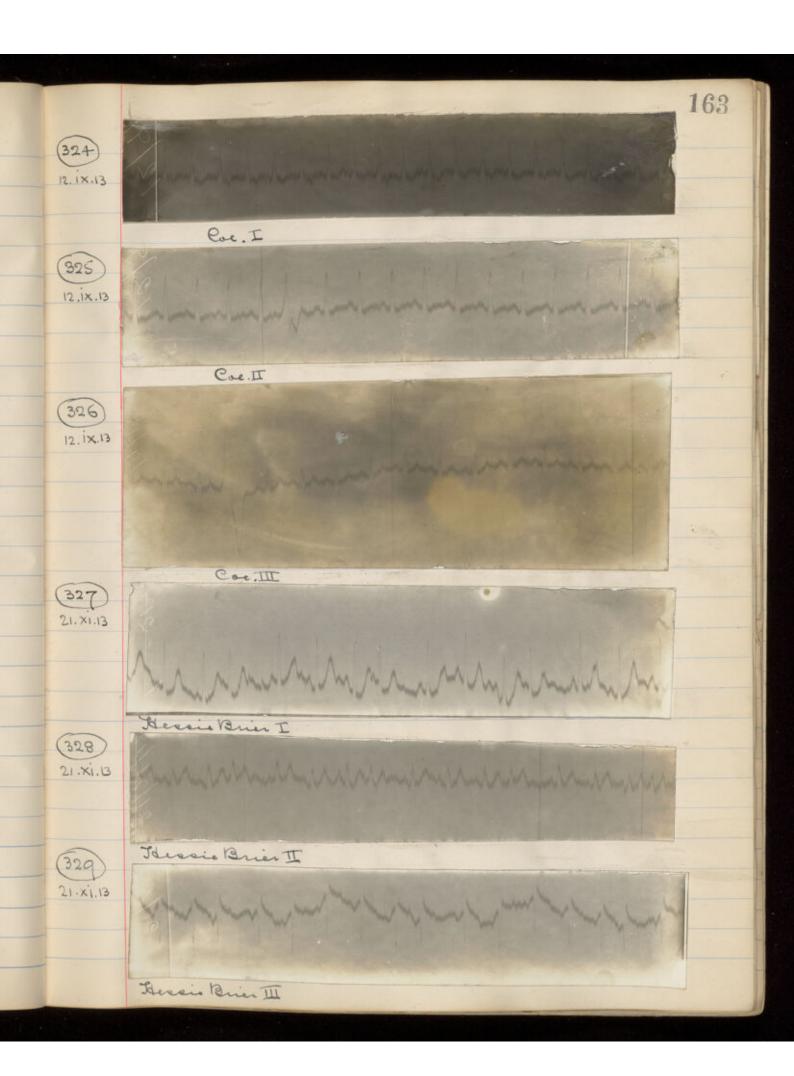


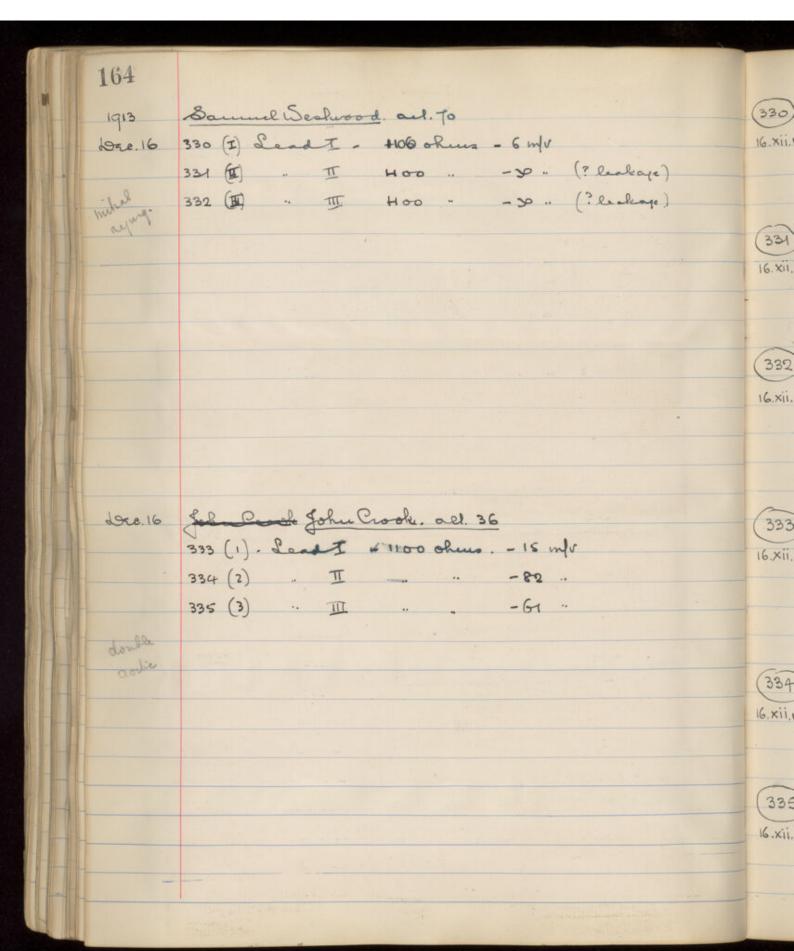


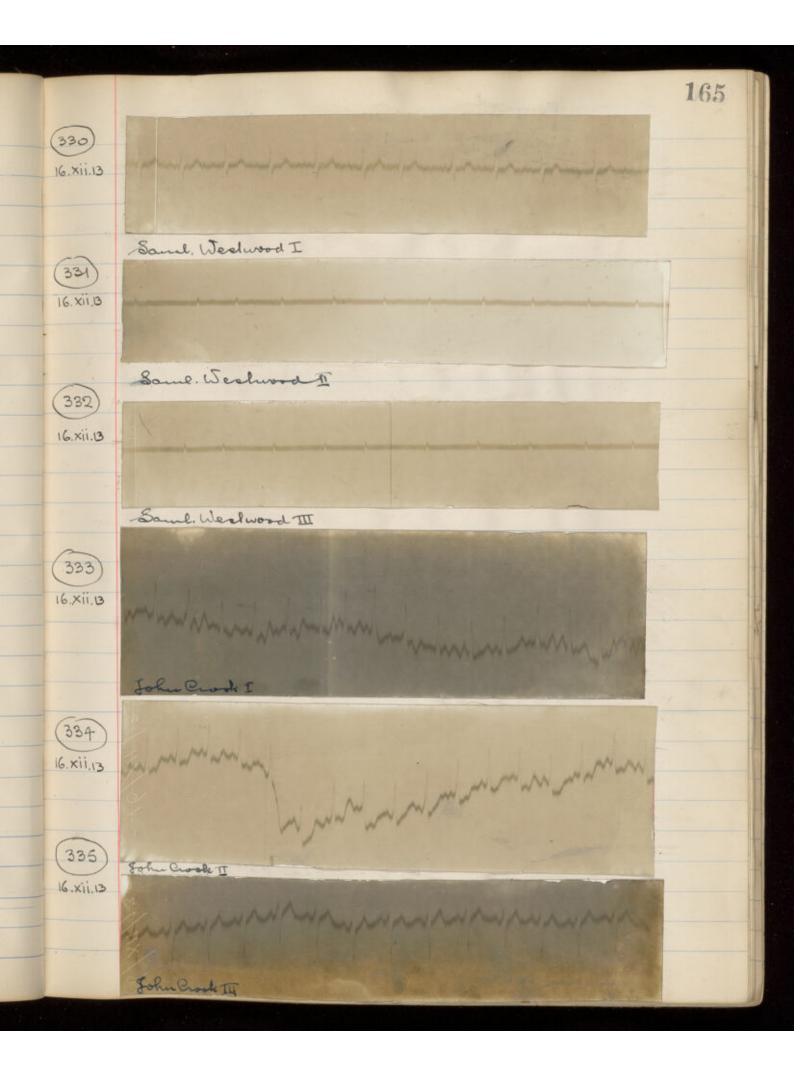




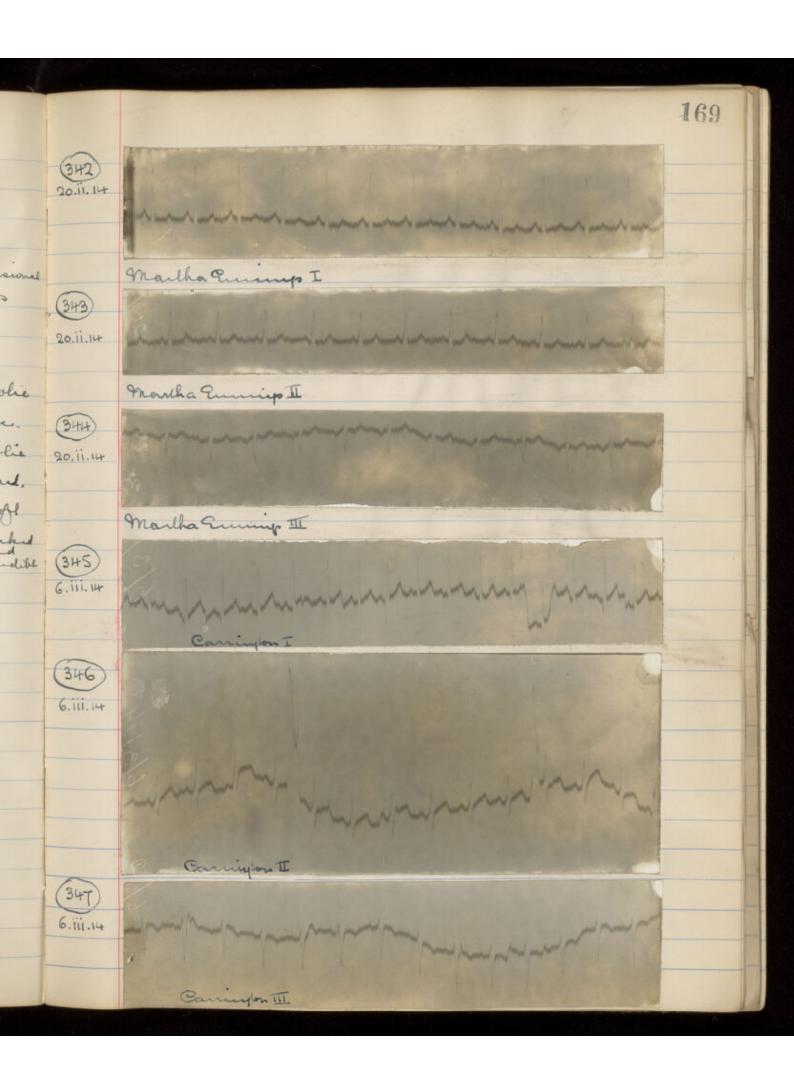




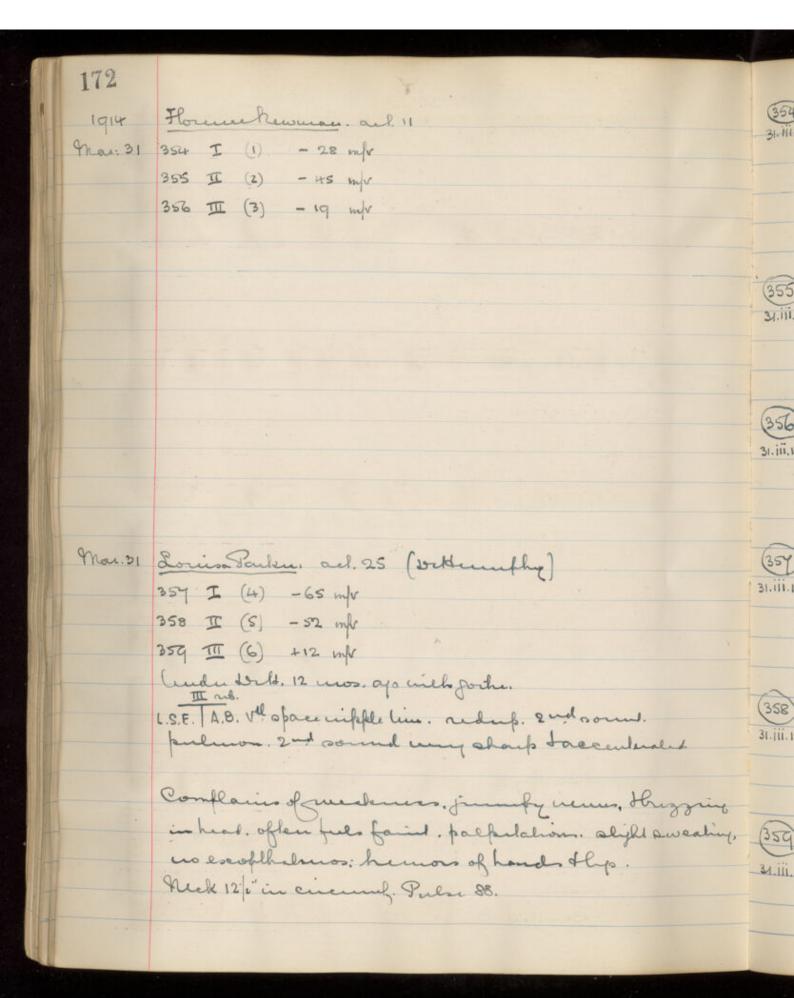




-	-			
	1	166		
		A CONTRACTOR OF THE PARTY OF TH	* D	
		1913	James Bernell - acl. 36	(336
			336. (4) Lead I. 1100 ohus 15 m/v	16.XII
			337. (S) II82	-
I B	- 1	o modie	338. (6) III	-
B.A.		Alph.		
				33
PH				16.×ii
	Ш			
				(338
				16.xï
MI				
		Jaly 5	Blacy - acl.	
		240953	stacy are	(33
			339 (1) Lead I : 1200 ohus - 58 m/r	
			340 (2) II	
			341 (3) " III . " ( do )	340
	1			5.11
	Н			
				-
				(2)
				34
11-1				3.11
THE				-
-				
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MI	170		
		Siver Hubbard. act. 17.	348
MIL		348 I (1) 1100 ohens + 82 m/v	24.111.1
	*	349 I (2) +85	
		350 11 (3) + 12 -	
			(349)
			24.iii.
			(350
			24.111.
AF			
11			
	On 2. 24	9m-1-012-11	
		Mabel Bentley. and. 18 351. I (4) 1100 ohns -8 m/V	35T) 24.iii
		352. I (5)«	24.111
		353. 11 (6) 4	
H			
14			(352
			24.111.1
1			353
			24.111.



174 EmmaSmill. al: 60 (brHumfly) 1914 apl. 3 360 I (1) -50 mfr 361 II (2) - C .. 362 111 (3) - 4 ... Bow him in Hook before in 1911. with withel almosis 361 midslan A.B. hearing & diffus appears to be in Vopen apac just in 3.11.1 front of and assistany him. Systolic thiel fel st apex. Lord and unmen of and died cummen at after, ayalalis being conduct into axielas tandible at aufe. 362 of scalule behind. Scallend riles tomored sounds own 3.iv. both lung, esf. 1. Thelin Hundslead. art 12. (Dr. Hundha)

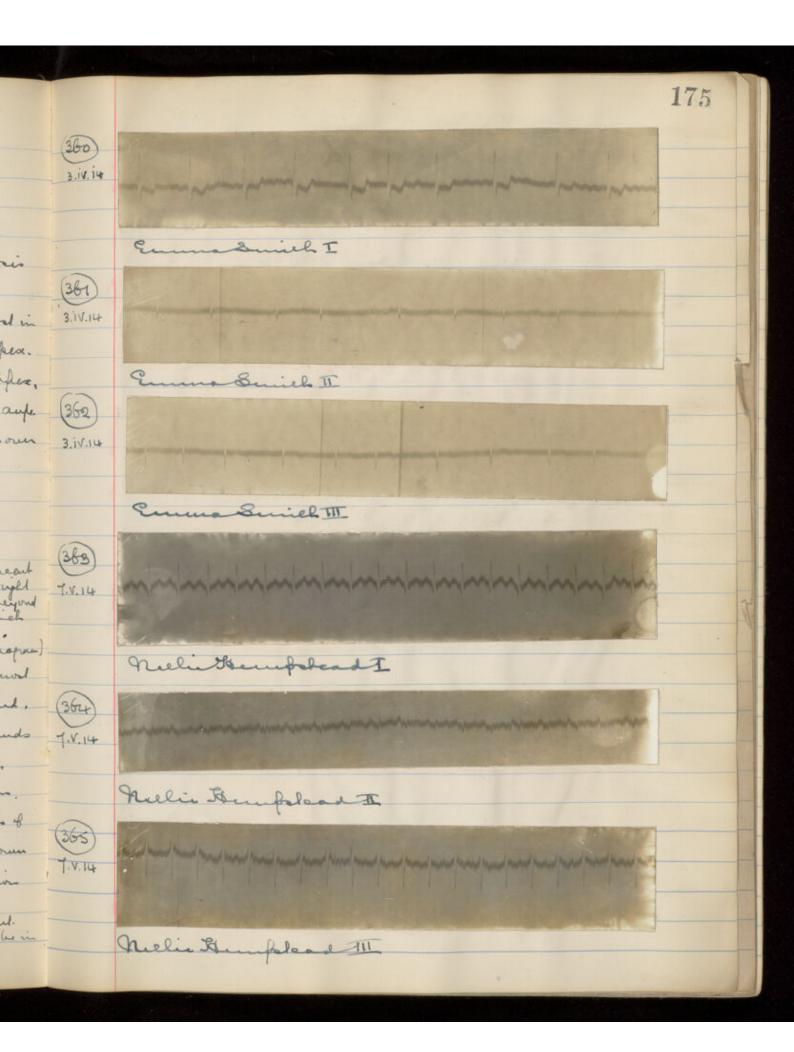
363. I (1) - 32 m/v Slengiam (27 N. 11) aleused heart

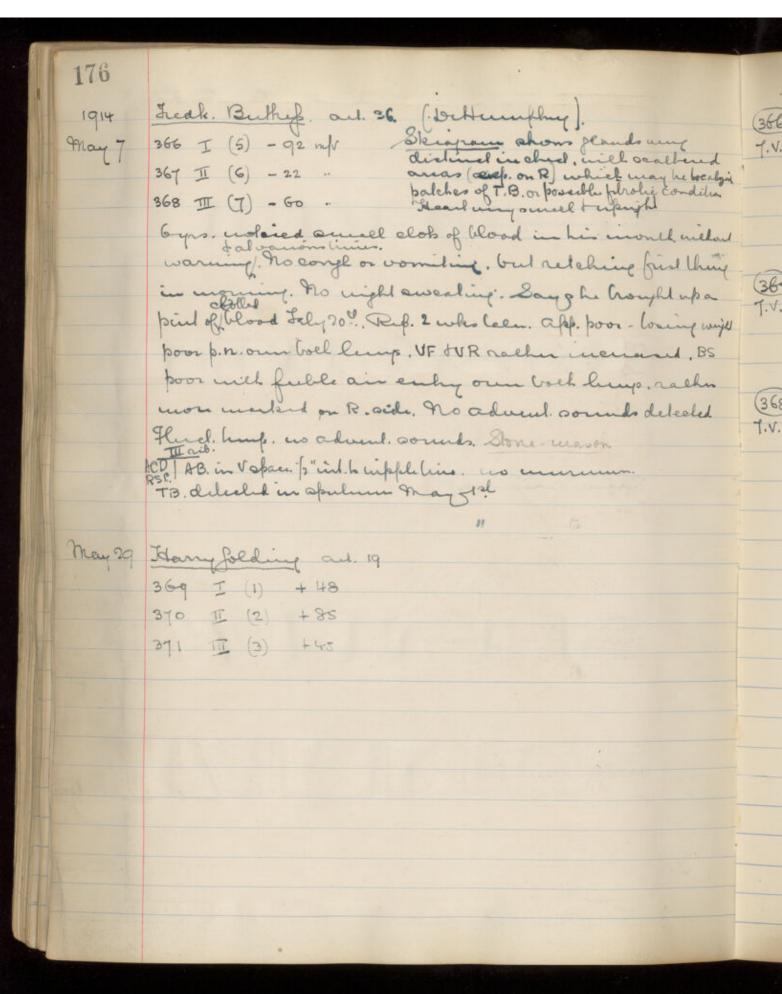
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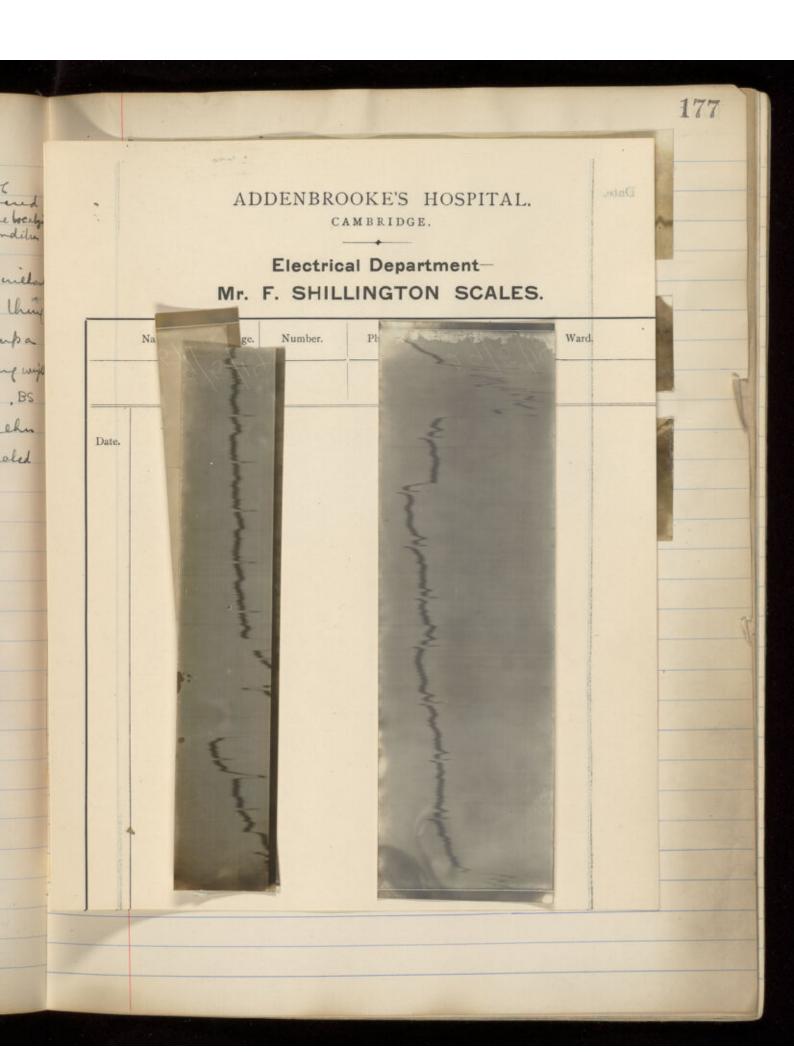
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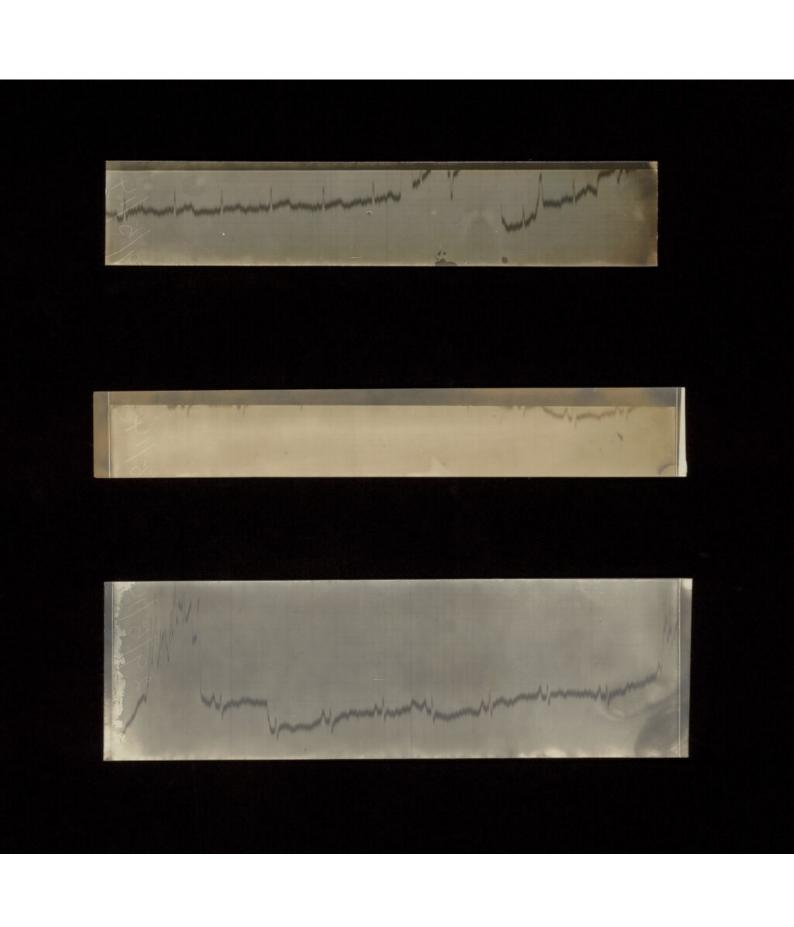
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all unique of the side. which may 7 363 T.V.16 ? cougar. 365. Th (3) +12 " (chied wwons during elsehocardiapan) Loud presyd wermen our whole fraccordine, mod marked in efigashim. 2" sound at afer muffled. (364 no rebarale unumeros al base. but any forsible sounds 7.V.14 Obsained by about Ronali & moral counds in lungs. EN, Benformed, BE, VF, H.R. aliminished on a such as the leaves Clubbed Juigers, flushed checks, bules foor vol. Hension, come irreg, of shythm. Cheshpipeon breashed, prohusin & 365 vi. vii. triii ails, resp. rapid. Lumelnons pulsalios our laun 7. V. I 6. chest very wanted where ails are from ind. Tulsaha bolk side of neck. I rib. Well worked prought third to wifele line, AB. Dennish int.
in spirashimm than 13th, no P.M. L. of epipashimm.









1. 369 29/5/14

(2) 29/5/14

3. 3/1

29/5/14

## ADDENBROOKE'S HOSPITAL. CAMBRIDGE.

## Electrical Department—Mr. F. SHILLINGTON SCALES.

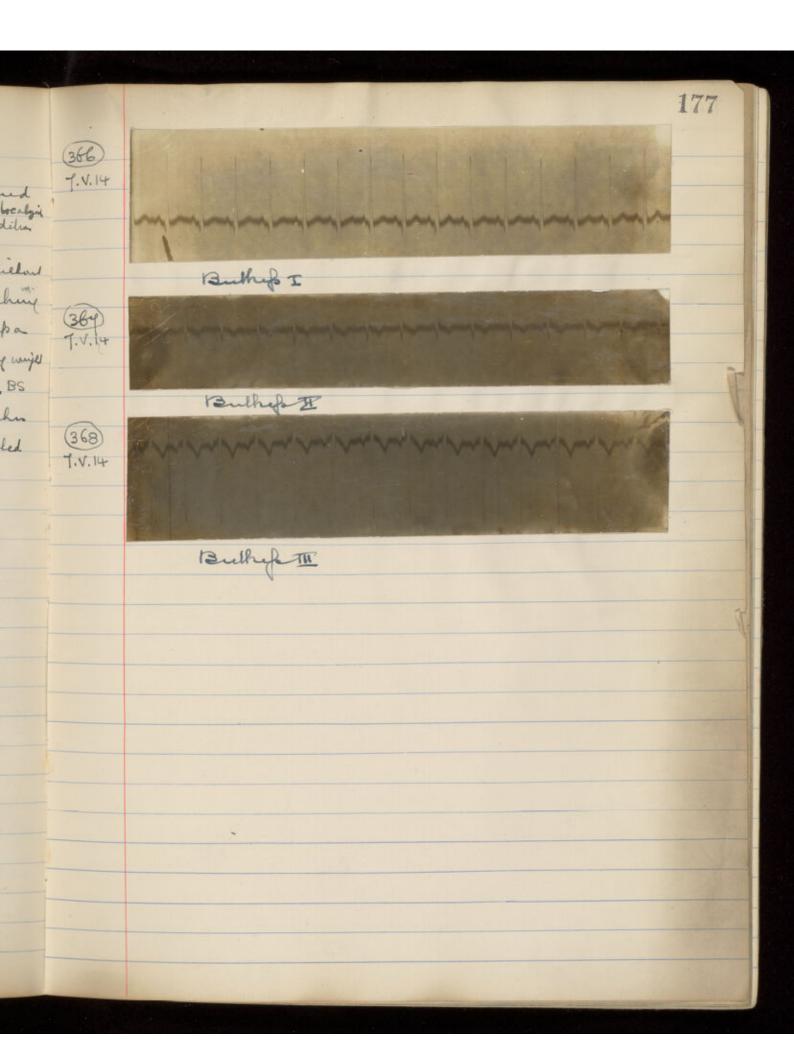
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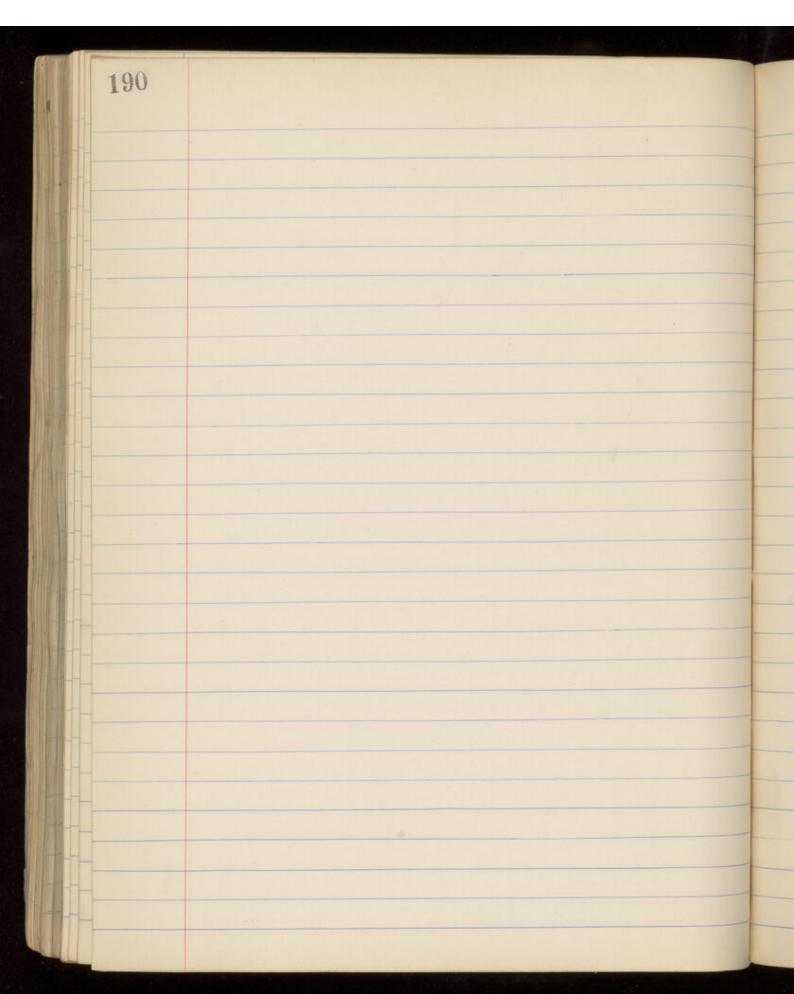
## ADDENBROOKE'S HOSPITAL.

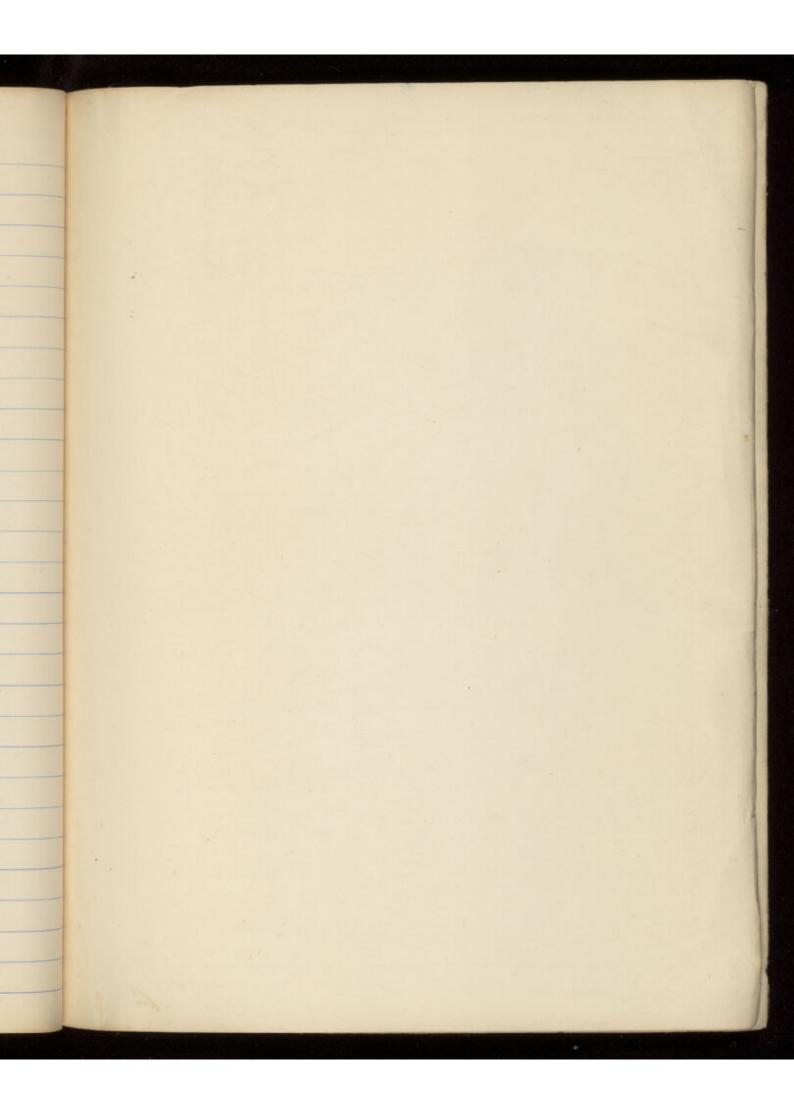
## Electrical Department— Mr. F. SHILLINGTON SCALES.

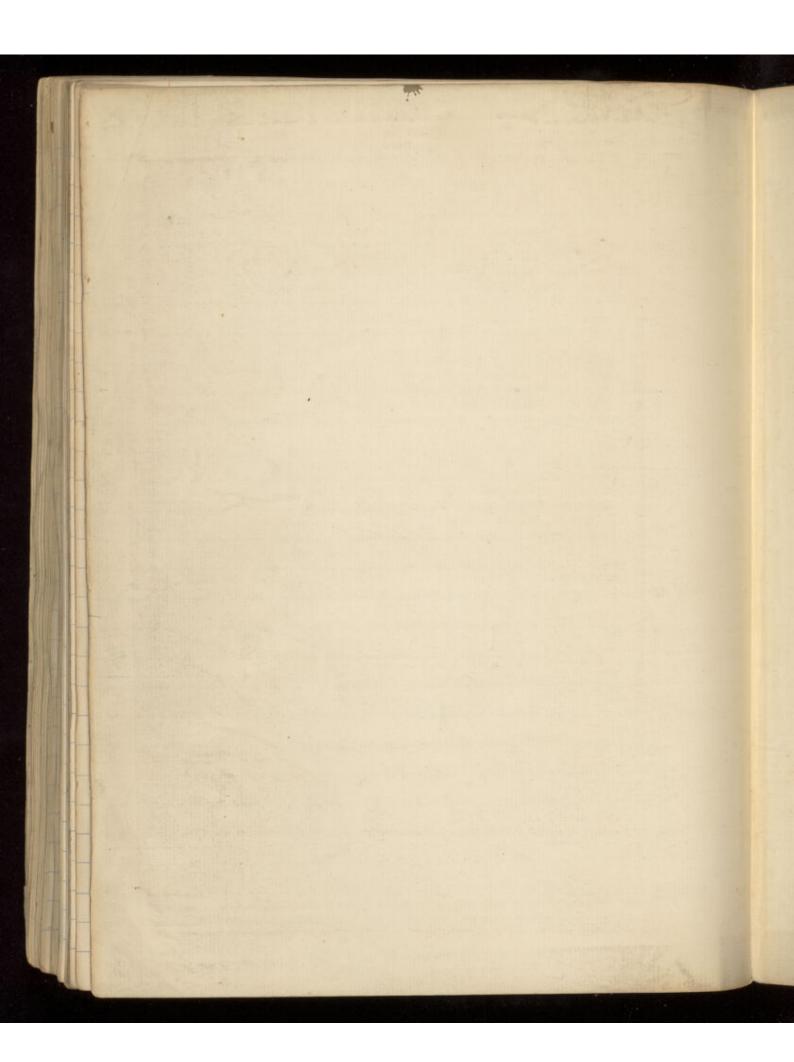
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Date.	Report :				

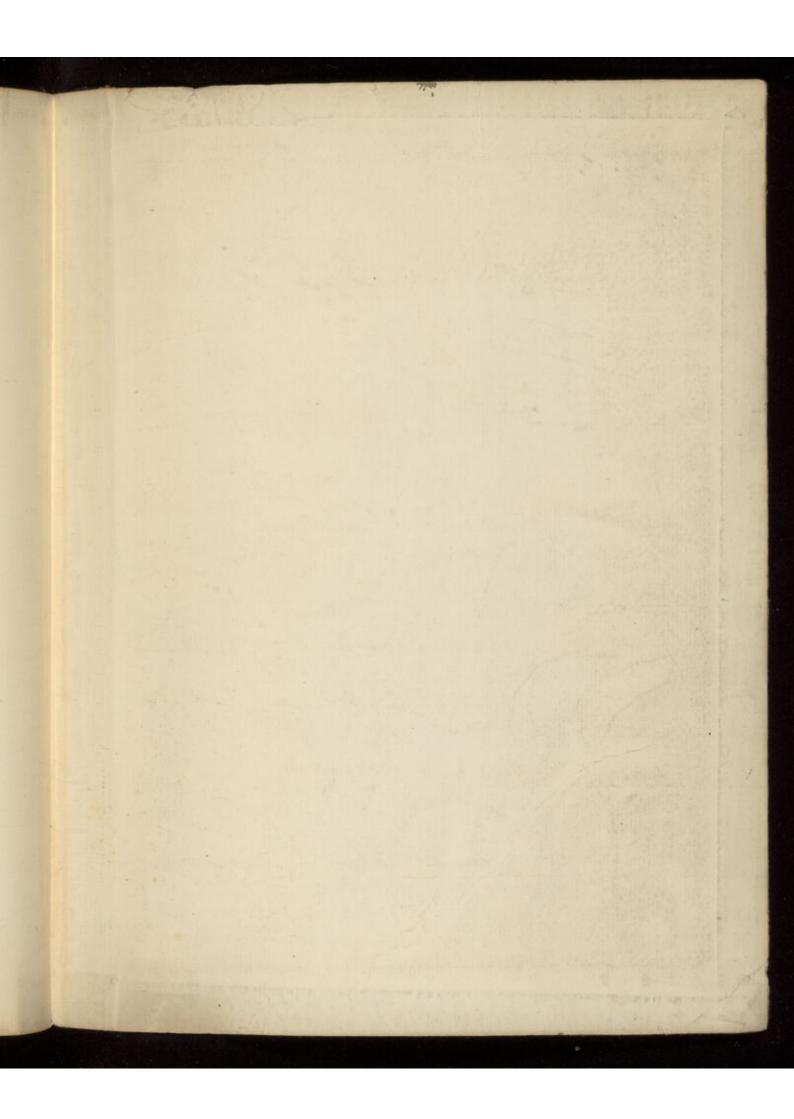
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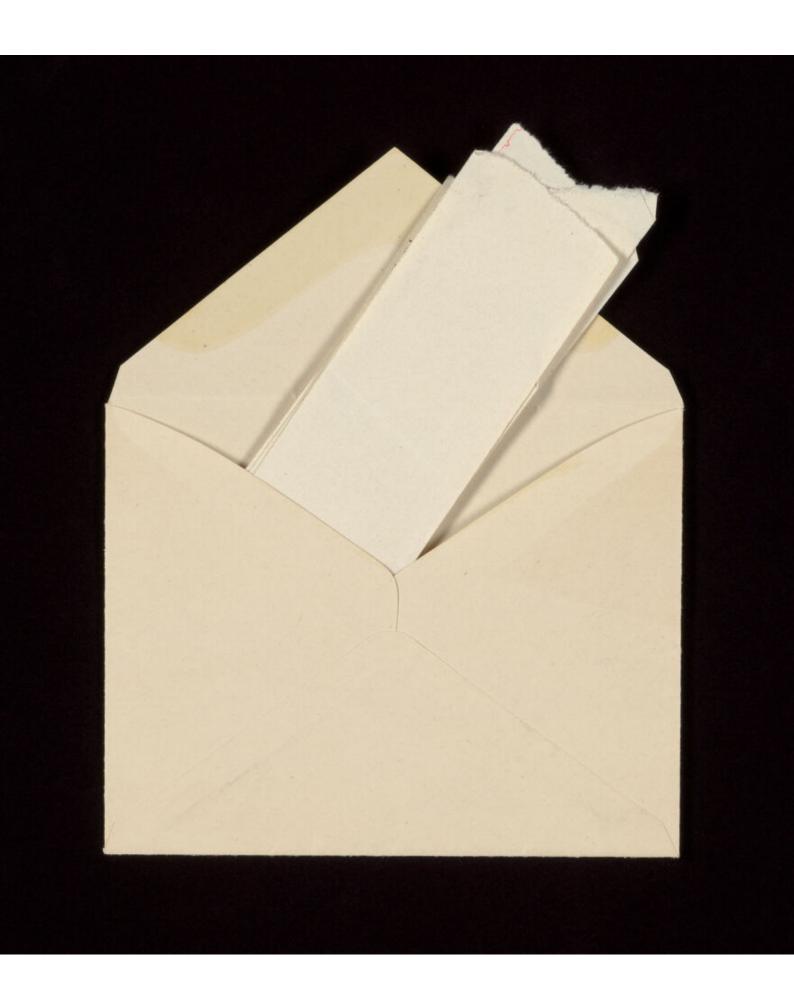


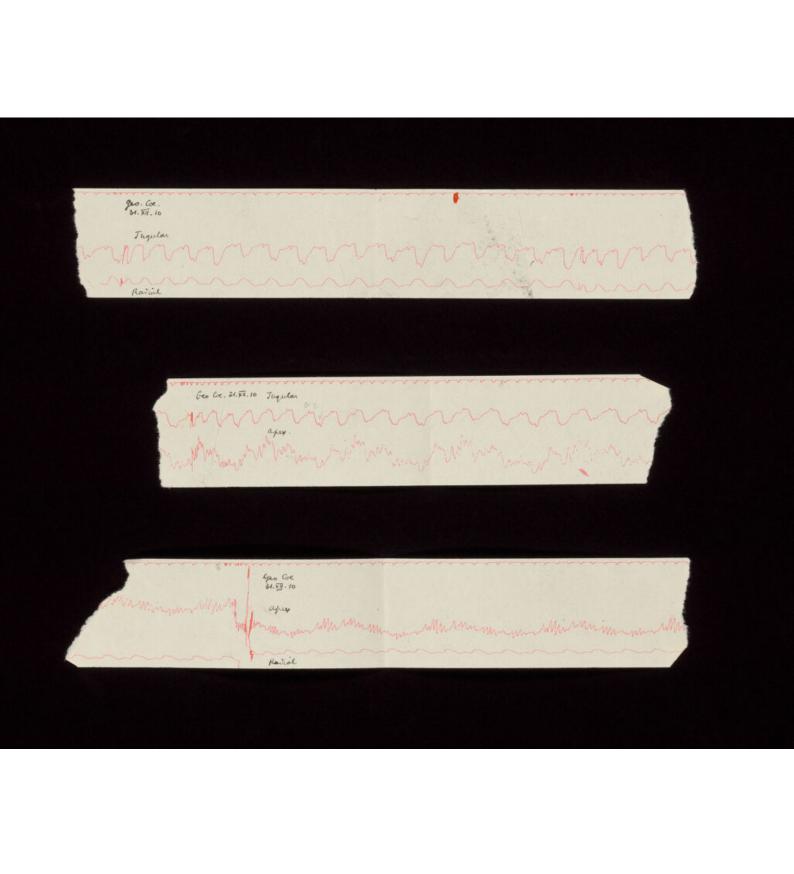
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I helleugton Scales's papers from Curriograph record book

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inhauenous \$5 to 10 mand Date Chl le 25 Date.

Jeo Coe





Adjust Resistances

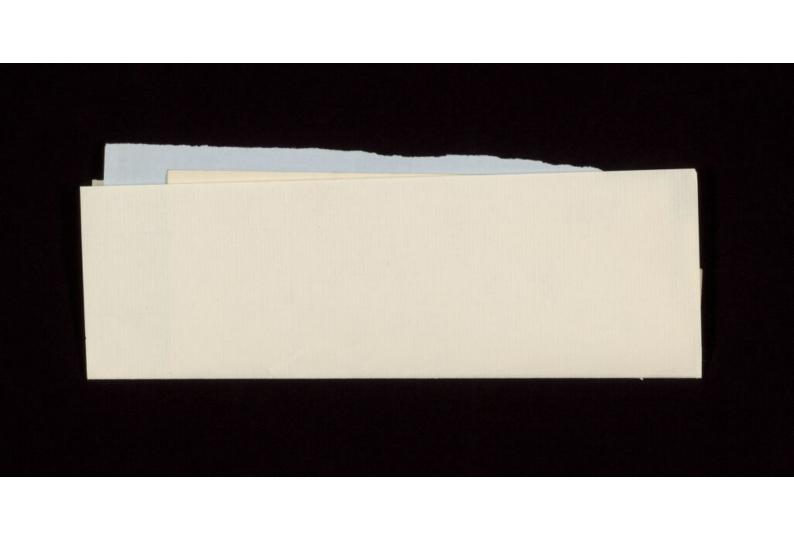
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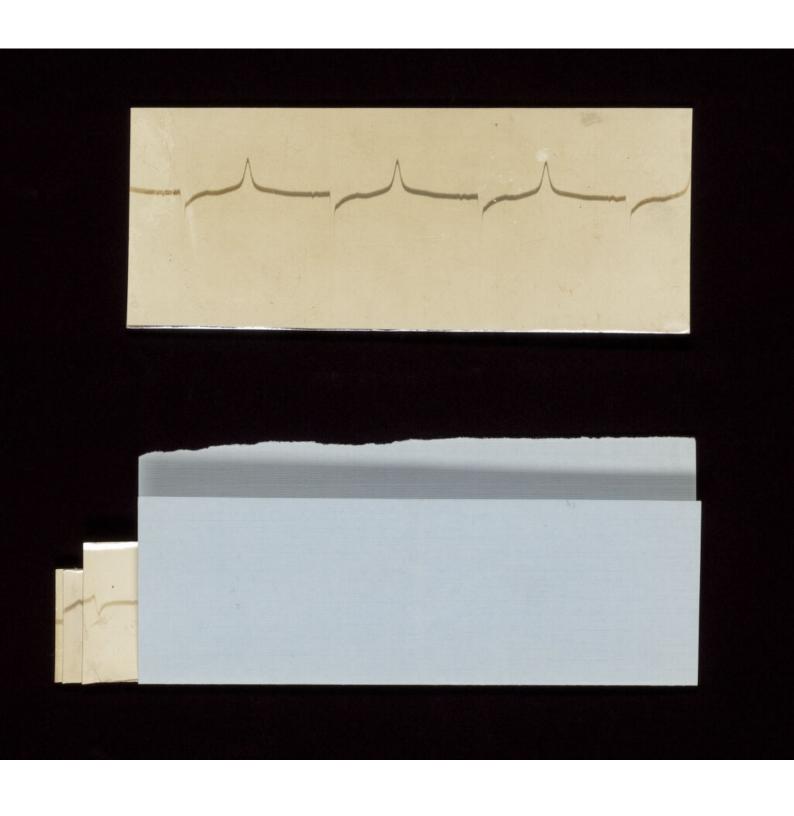
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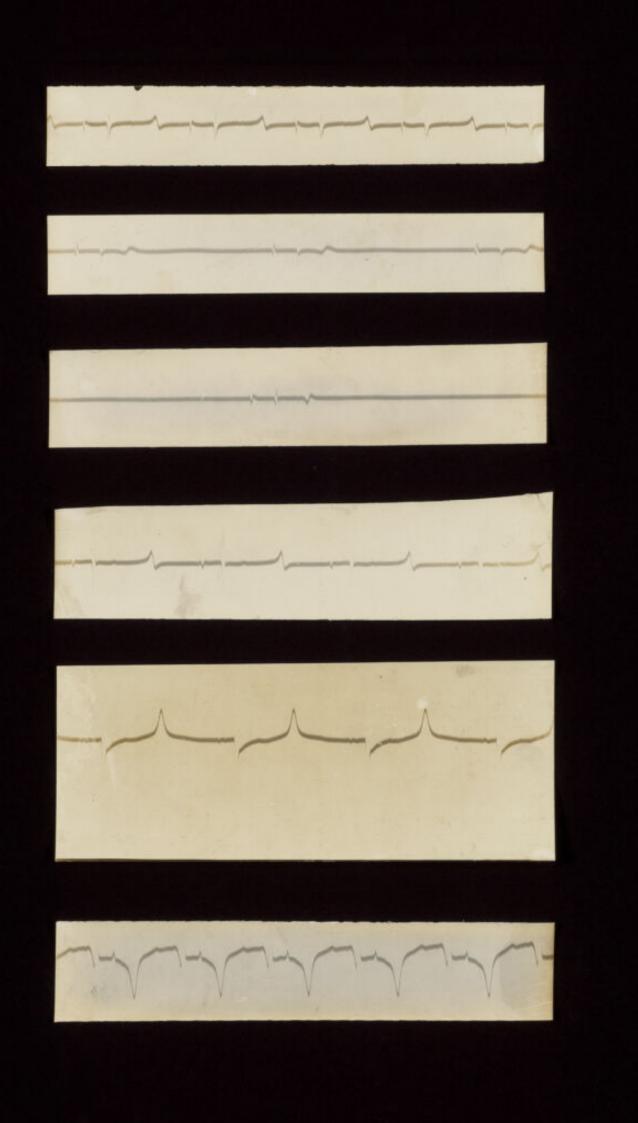
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1 Li!

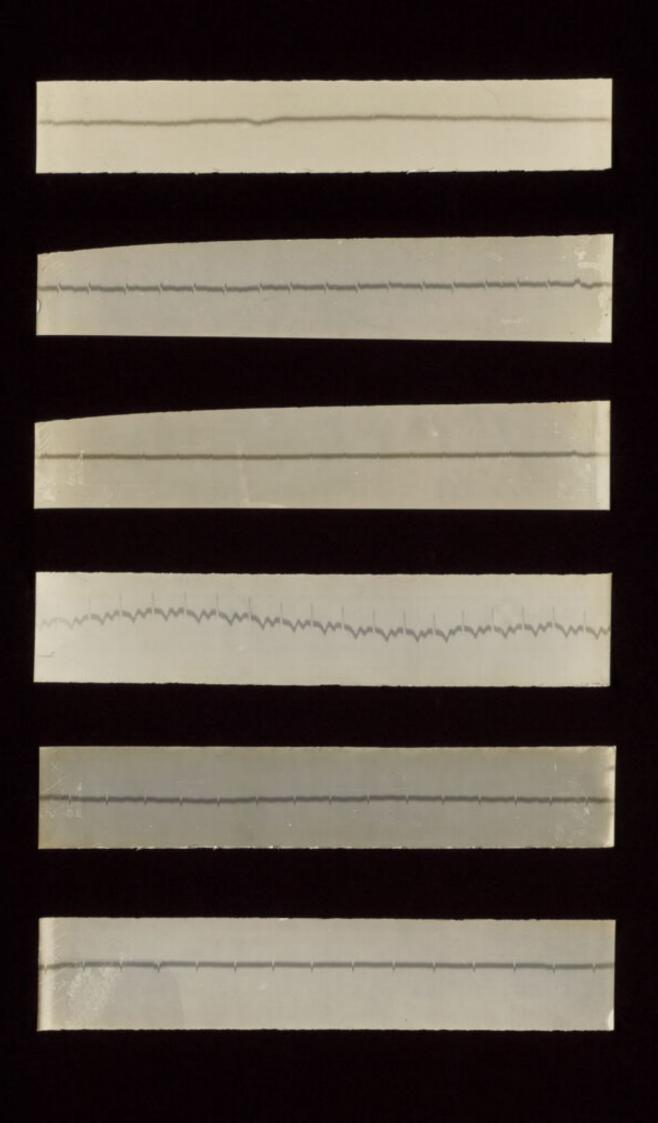
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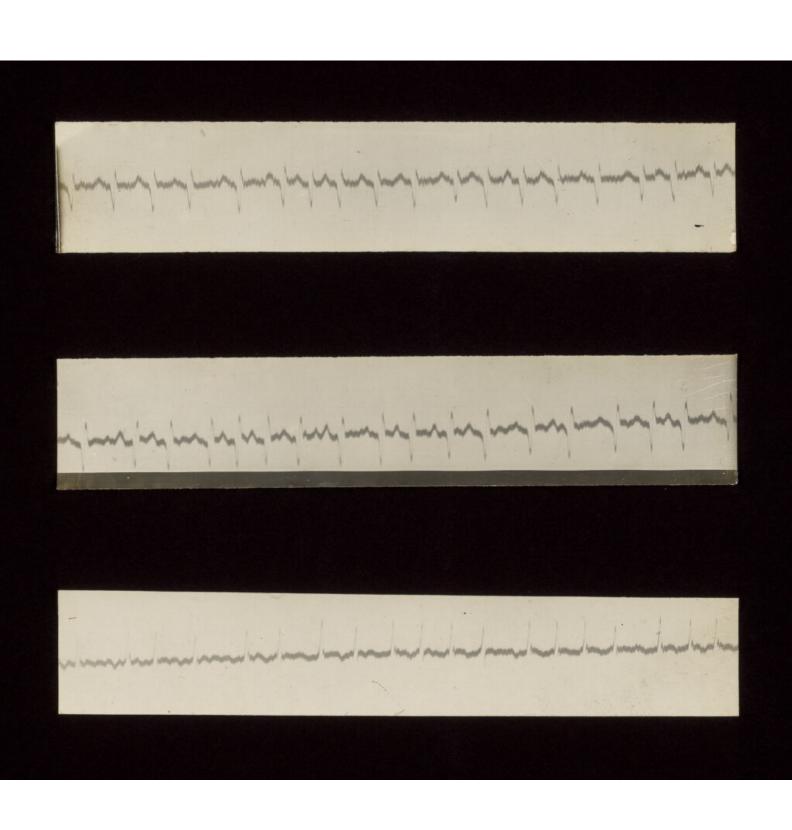




7069 10/x1/11



noyes 701 14/x1/11 oshory 70 2. 14/21/0 There 70 3. 14/×1/11 40 4 15:/x//11 Dora haveis Dora Frances 14/x1/11 70 5. 18:/x1/11 mount 20006 706



(149). 4/x1/11 (160) 4/x1/11 (151) 7/x1/11 III

Method of Using Imporary apparatus for the Compensation of Body Resistance & Shin Current Effet. Body Hisistance. How the envilence. 142 in the left hand positions, then lapping one of the kups of switch of adjust the body balancing resistance until the defector just shows the slightest hundancy to nove in one direction & then changes & moves in the opposite direction almost immediately due to polarization. as a check tap the other key & ~ more whether the same morements of the defector are produced but in reverse directions. Having done this put awatch (1) in the right hand position which knows The usestance gound to be equivalent to that of the body into the standardising circuit, whereby the gaws is Sandardised under the same condition as those which pertain show laking the cardiogram. Clase witch a right hand position which discounceds the passing from the bridge & connects to the left side of souther 3 Mandardising Compensalors. By means of the wilches a & E. adjust the current on the compensator until the differtion on the standard oddineter is 10 m the lower scale. If the dry cells have fallen so much that a & 6 are insufficient to adjust the ootherter correctly, plugs should be fait in the sesistance box c, until the possessance box avices at a can again to brought Standardising Salvanometer. to sensitivity of 10 m per or. V. (millivolt) of cardiai E. M. F. adjust the head of the intrated until a deflection of 10 % so stamed when strowing witch is over from the newhal position to the ugus hand position

To Compensate for the burents. blow model 6 +

Mean and so we to the left, then if the mean position of the fibre is displaced bring it book to the good position by himing the deal avited of the sompensator in a clotherine direction.

Should this increase the displacement than switch 5 are to the other side. Having these roughly compensated, spen the shunking worth 6 a make the final compensation by means of the shale wire on the cardiogram may be taken. The strength of the skin current is shown by the reattings of the deal avitch or slice wire

CSIC. T.R. 5/5/11.

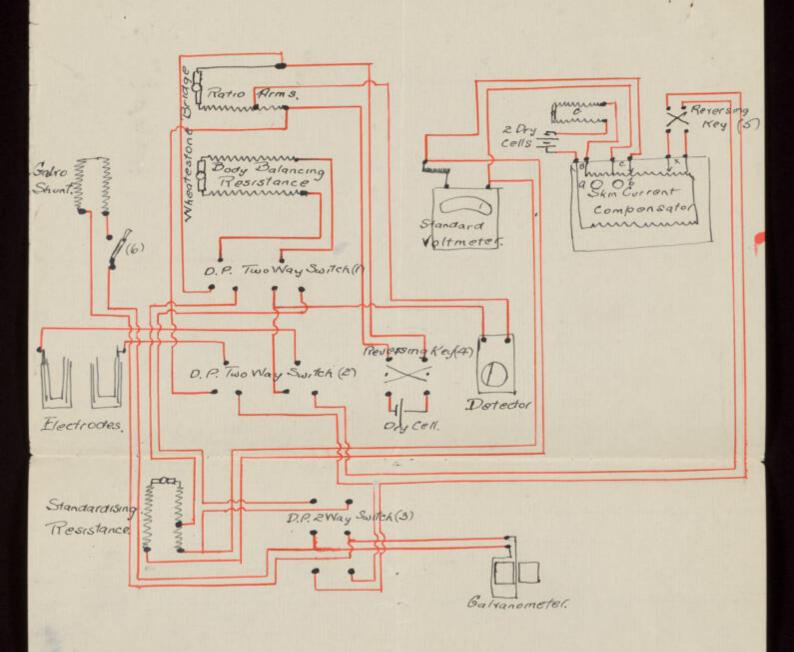


Diagram of Commections
of
Temporary Apparatus
for

Body Resistance & Skin Current Componsation

Apparatus indicated thus: - mun.

## ADDENBROOKE'S HOSPITAL.

## PROFESSOR BRADBURY.

Register No.....

				register 110				
Name.	Age.	Single or Married	Occupation.	Abode.				
mand Game 19		S.	Jacton Hand	mill street.				
Date of Admission.		For	what admitted.	Result and date of discharge.				
25- ×1.11								
Date. admitt es	E	Rheumati	E Ferrer (Subacul	te),				
Shalvers of Breath 12 months. no othe Carrie								
symptom.								
Pres. Illnesses: Acute Rheumahon - 6 years ago.								
	2 " - He mouter later.							
	3 " - 1 yer av.							
State on Admiros: Poorly mourished. Shelling and Tendences of several joints. T. 100°.								
Circulat Sypt: Pulse - Tens. low. regular  Heart - pulsation in 4th 13th shaces.  aper 5th space nipple line,								
at abox -	angle of scapular. Short diastolie.							
at anti -	at antie - orpholic brief and diastolic propagated down							

Hermun. Clorus of arthi values who heard. Date. Left chest retracted and

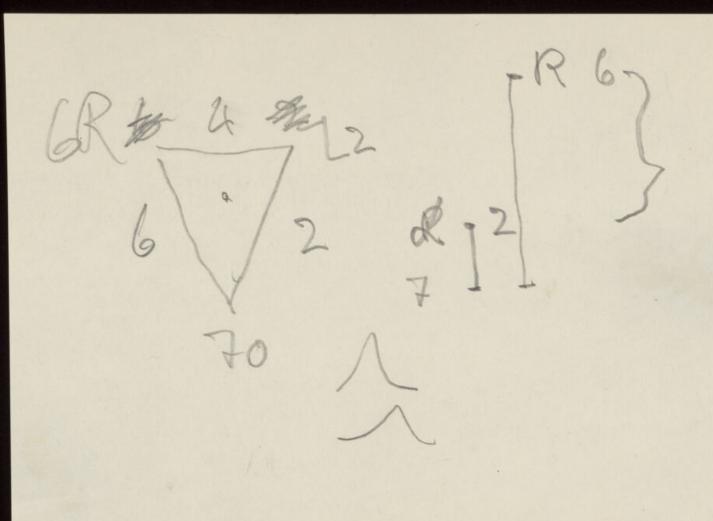
## ADDENBROOKE'S HOSPITAL.

## PROFESSOR BRADBURY.

Register No.....

					Register No					
	Name.	Age.	Single or Married	Occupation.	Abode.					
K	Kate Tofts 23		8.	Domestie	Hoxhan lave Lintor					
	Date of Admission.		For	what admitted.	Result and date of discharge.					
	20. Och. 1911									
Da	Date. Symptom of Amaemia - pallin, desproca, despeksie Knistaxis etc.									
	Social Conti:- por.									
	Hate a Admiss " intense pollor. Thin. Skin surface									
	and mucon membrane show frest anaemia.  Opleen - palpabl.									
	Blood Change: - severe pernicions anaemia.  Retinal Change: - Small Statemorrhages.									
	Circulat. Syst - Bulse 136. Tension low.  Heart - aper 4th space. nipple line.  Systolie throle (anamic)									
	Left Border - 300 Cost. Cart. to apac of hear under 5th rib.  Rt. Border - just outside sternum.									

when electro cardiofram was taken there Date. a market reduplication of 1st Sound. 4



" Short Instructions of Mong Cardiogram Compensating apparatus

Connect up the apparatus as shown diagramaticity in blue print. (T.R. 1. 158). The batteries shown should be a good make of dry cell, say Chack sage M. The one connected to the bridge should preprobly have an adjustable resistance in series with it so that the current thro' the patient may be varied according to circumstances. clok that the small induction coil is working properly, then with the switch in position "R' to measure the resistances by adjusting the dial switches T. U. Y. with the menumin sound is heard in the belieftone receiver.

Procedure. Set the 3 way switch to "10." their raggest the resistances C&D until the voltmeter indicates 0.9 tolt. (as marked by the red line). At the multiple way ewitch Flo to Galoo. resist of the multiple way ewitch Flo to Galoo. resist of the measure the resistance of the solvered film galvanometer. In doing, this it is essential that the field surrent should be awtiched of otherwise the film may be so violently deflected as to damage it.

The resistance of the patient, electrodes it leads them the resistance of the patient, electrodes it leads them there works to 3 which places the three resistance found in screes with the galoo, when calibrating it. The adejust the film to its yere position of the put switch to ballitate

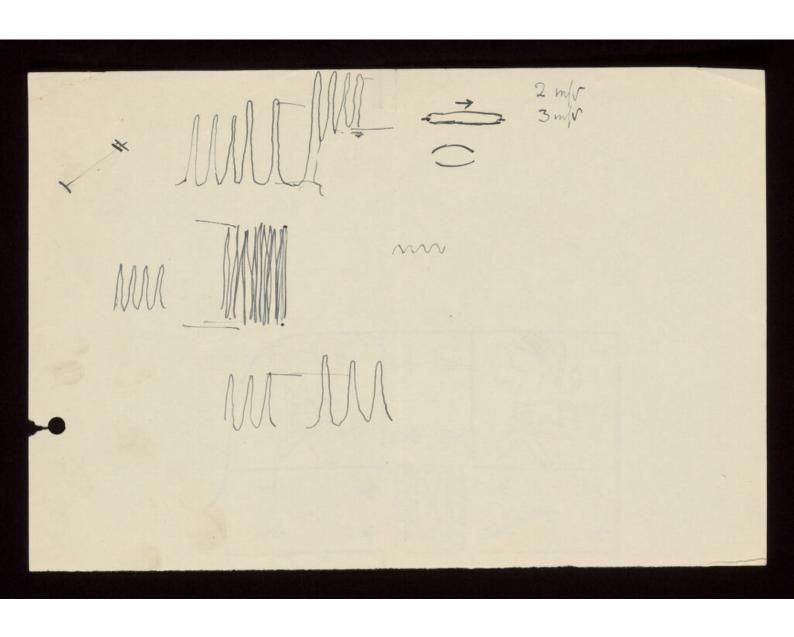
The deflection defamed so that due to 1 M.V. Dad adjusted so the usual unsitivity, him swifely so Compensalo. In the position the galvo. no heavily should so that even if the obserie current is very large the filte is not likely to be thrown of the scale. By adjusting the slider A along the stide bar the film san New brought back until it who about ito gero position bowing dow this set switch to record & finally compensate of necessary by locking The show on the box by the serent P. & radjusting My the milled mut D. Iw record may the be laten in the usual way. If with the Burry suntch & at "10 the skew current cannot be compensated him the revolch to "100" & readjust the resistances so that the wolfmeter organi read 0.9%. The amount roupensation to them 10 times as speak las vegore & the M.V. compensation indicated by the Lider should be mulhplud by 10. It so unimalerial Shether this world so on the io' or 100' M. range I'm calibrating but It must not be my the 'by posehow. If is unot instance that the galvo resistance should be measured each time measured occasionally its resistance will indicate whether the fibre is normal or not. when the second has then taken how both swelches to Off & disconnect the Coatlery

No.	33.	nounal.	Lea	d I	AHM feuss Lyfales
		do		d I	W
11	35.	.47 .60 do	Lec	ad III	
			Le	ad I	9sw.
,1	84 93	2.96.119 do	La	ad I	95W-5 mins afla whisty 3i
	136	do	Th	09-	whisty 31
	137	-			Ballz-tonusiu eyelole
	138	do			
	139	_		ti (On	Adrenalin - ine. head beat oning hope in pries - but stones though thim.
	140			1, 000	of vapus al medille.
	161	Uounal		ti	
	162	-		1.	alops he and this vayus
	163	-		4	do net
	164	-		4	ahofin
	165	-		t.	chloral hydrah.
	166	-		tı	adrenalin
45	167.16	8.169.170.171	1. 172.	173.174	r and a second
	175.17	6.17.178.179	1.180	181.	

Cast 190

Nov: 24/11 Cal. wethour. Lead I - pt. weedles in pectoral wessles Bay I. (175) -1100 ohun Longo normal 18 m/v. adrenalin 5 11.44/h I 24 (176) Solorofour head (177) 18 m/s } (12.0 {12.10 {12.10} {12.11/2} 3 (178) 21 m/v pilocontino Stryv ahopino, 100. 0.1%. 4 (179) Sonla \$12.18 (180) 23 m/s hid squill 196 6 (121) S12.26/21 25m/ du. 4 c/e

Togate. 1 c/m = 40/m = ·25mp .06 m/v 5000 W. 9 .2 mecro ampo 162 5,000. 1. mucro x. 15 % 001



10% 4000 Imie

A Nerrow hipshow are constantly passing from the special and to way of the special cord by way of the special special to the blood vessels of the head the letter later the cultivale this is shown & the contraction of the blood vessels of the Contraction of the blood vessels of the Contraction of the began who have before as you as the sympathetic in and.

The facetonic & determine are.

1 Whether the string galor: gives enidence of the passage of these herrors impulsors.

2. If so, whether any Industria can be Irawn whether Rin herrows unputs is continuous or always ? if admitted Is continuous of what rate per record.

B. The herrows impoless on their from the Cetri. Symp. to the tissues from the horse have cells of the superin Cerrical garytime to mirstigation have been made as to the undefication in the alectrical change accompanying a herrow ampelor a it frames through freeighteral were cells.

of the strong gate: genes suidence of the western when an the cere: squy. Their could be compared that that given when we alectrode is placed peripherally of the sup. cere: ganglian.

Further the wally could be tested by said a single whether shock out the news of leading of to the string galaries as a (0) a sec (2) of the string galaries as a (0) a

6. to 9. Jun.

thereals that could be used are an rubbit a cat.

Normally kervus augulors han down the cernical sympatholic

\* cause a the continuous slight contracter of the blood vissels

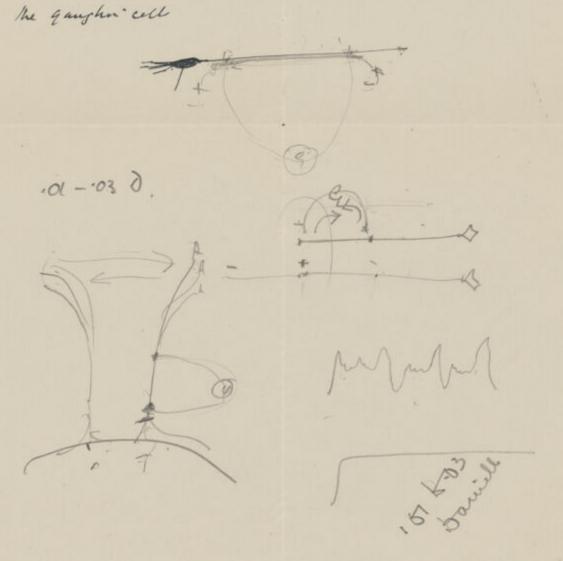
of certain parts of the head, \* of the delater populate.

Can any withication of this be obtained with the thing galvanay.

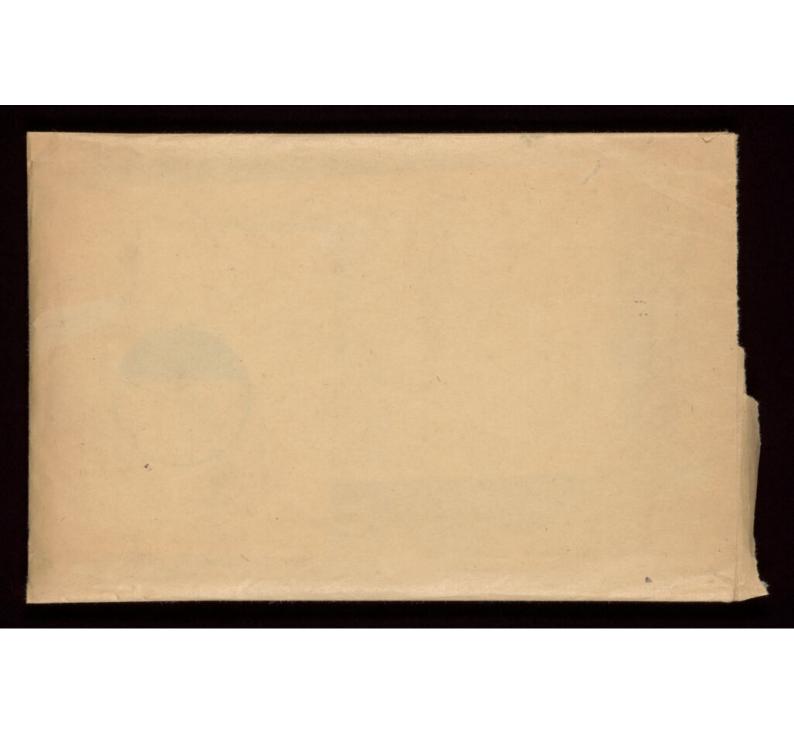
Stematic passing block along the cervical sympathetic have to pass

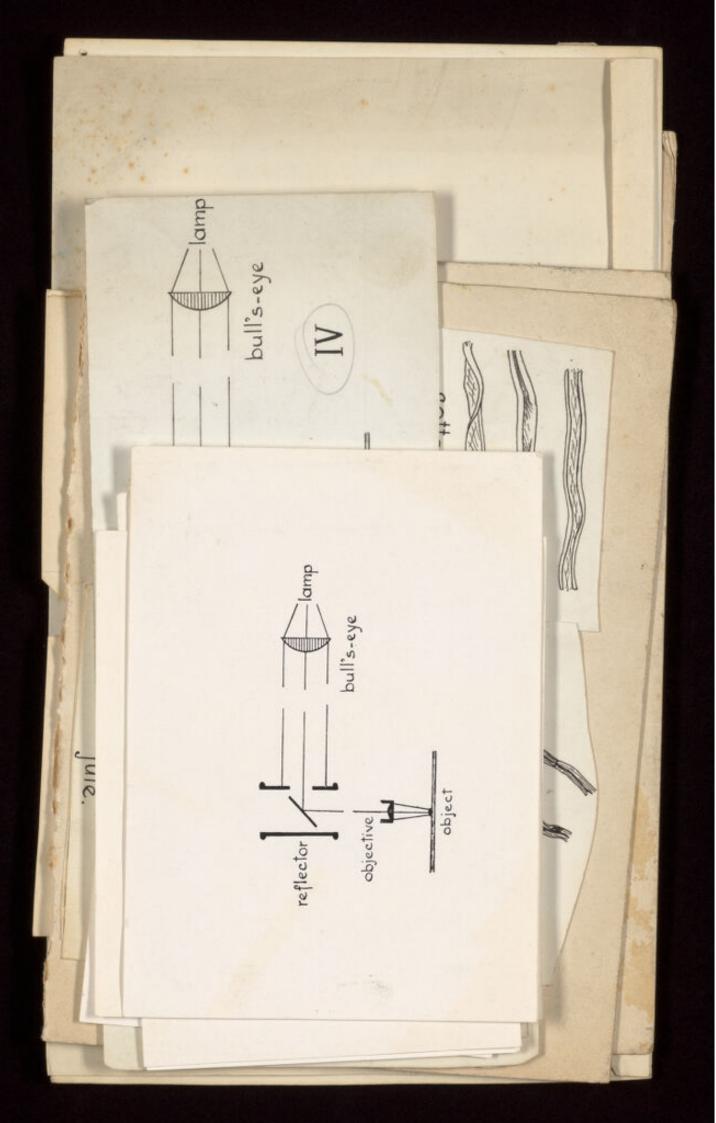
through gargher cells. When the herre is shemulated electricity

through gargher cells. When the herre is shemulated rections



marked TL hop-left.





eyepiece inner draw-tuberack-work to draw-tube outer draw-tube. -coarse adjustment body-tube fine - stage adjustment sliding bar mechanical fine stage adjustment --substage to substage centring clamp Screws coarse adjustment substage tail-rod foot-F.S.S.

Fig. 5

Comfound Microscope

reduce la sige suidable for dage - say, lo 3

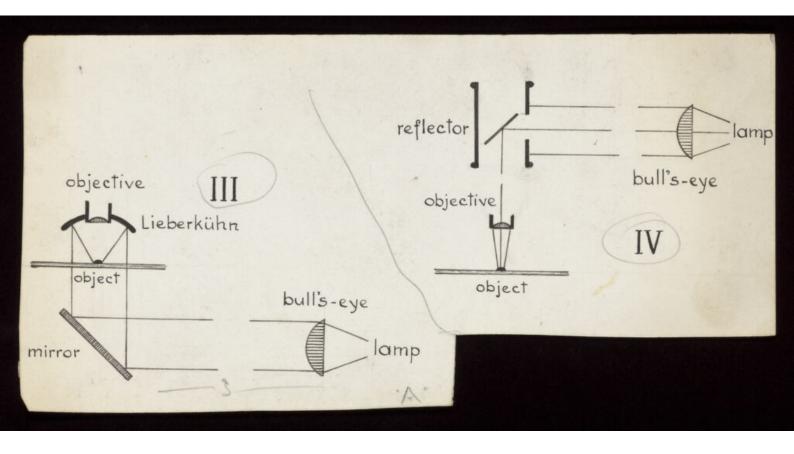
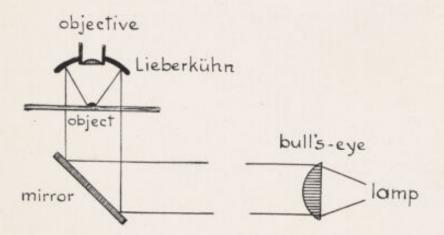
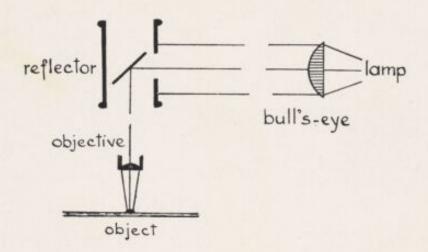


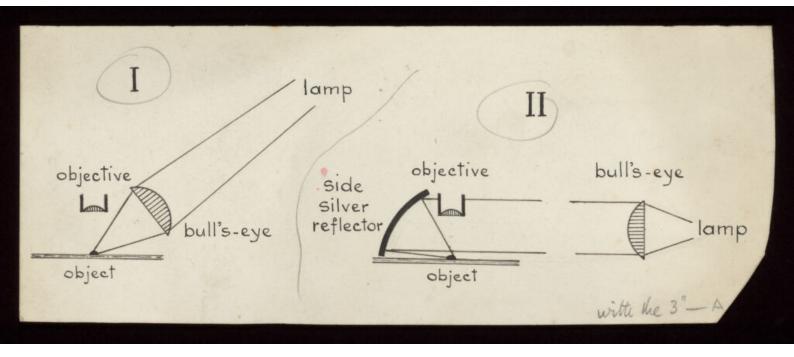
Fig. 108 (conld) Reduce to 2/3

1211

Methods of Reflecting Light.





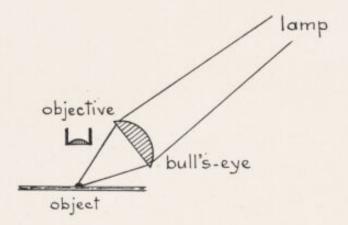


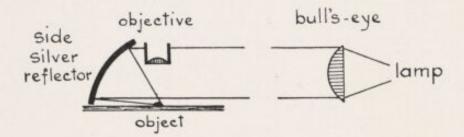
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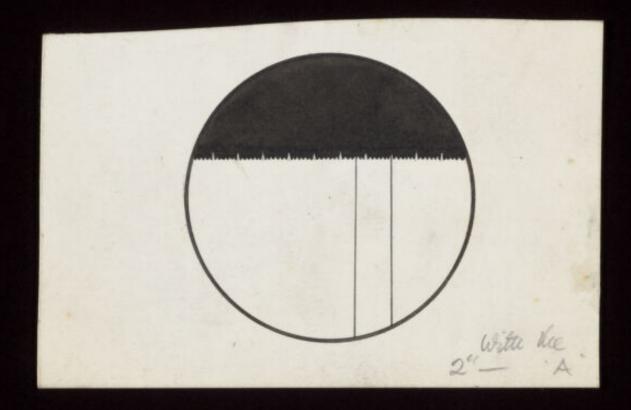
Reduce to 2/3

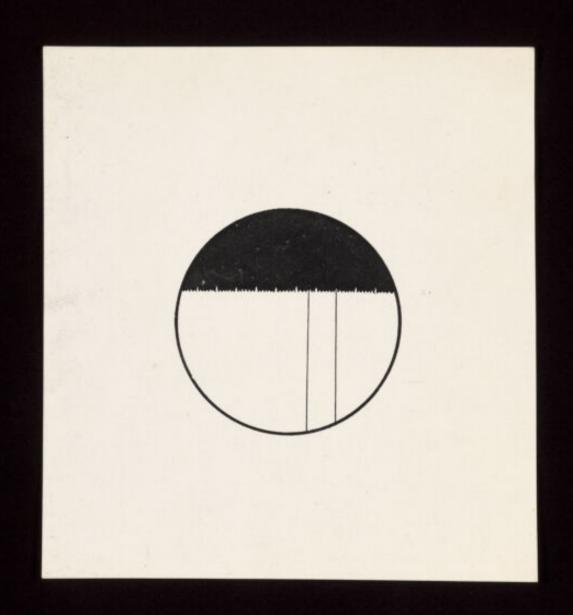
Frethods of Reflecting Light-

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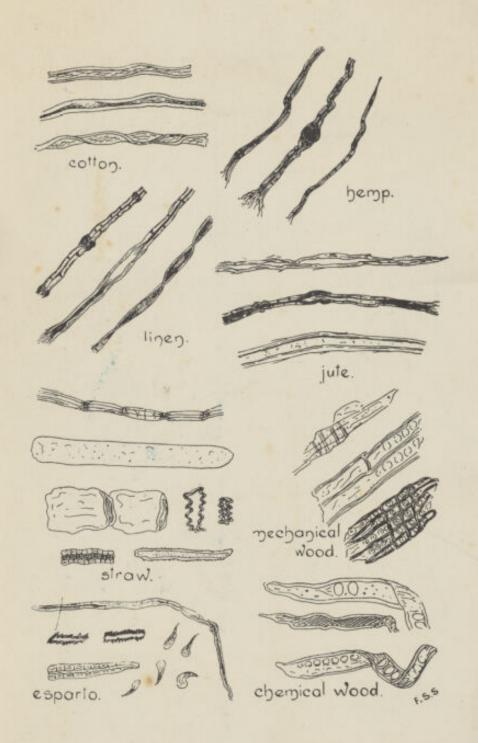




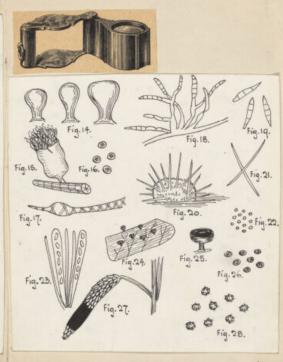
Reduce 102/3 Jig. 73 Field of Screw Micrometer Eyebice 7727



sufficient prossure to mon or ly plat







James Joseph

Reduce to 54 in 4 cut just 3 blocks 2 2 in will, such,

