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NEWTON & CO'S, CATALOGUE  
OF LANTERN SLIDES  
PART II.

37, KING STREET, COVENT GARDEN,  
LONDON, W.C.

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Telegraph  
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A

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## B

## HUMAN PHYSIOLOGY.

Selected and arranged by JOHN GAY, Esq., M.D.

Coloured, 5s. 6d. each; Plain Photographs, 1s. each.

The majority of the slides are taken with permission of the publishers and authors from Kirkes' Handbook of Physiology (marked *k* for convenience of reference), Foster's Physiology (marked *f*), Huxley's Physiology (*h*), Gray's Anatomy (*g*), Quain's Anatomy (*q*), Alexander Bruce's "Mid and Hind Brain." (*b*), other sources are mentioned. Some of the slides are taken from apparatus set up.

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- 7 The Organs of the Thorax
- 8 The Heart and Lungs
- 9 Transverse Section of the Thorax
- 10 The Pericardium, Posterior
- 11 The Heart and its Vessels, Anterior
- 12 The Heart and its Vessels, Posterior
- 13 Interior of Heart, right side
- 14 " " left side
- 15 Transverse Section through the Ventricles

- 16 The Valves of the Heart, viewed from above
- 17 The Semilunars of the Pulmonary Artery
- 18 The Semilunars of the Aorta
- 19 The Coronary Vessels
- 20 The Superficial Muscular Fibres of the Heart, Anterior
- 21 The Superficial Muscular Fibres of the Heart, Posterior
- 22 Muscular Fibres of the Sheep's Heart, showing the different layers
- 23 Voluntary and Involuntary Muscular Fibres
- 24 Microscopic Structure of the Muscular Fibres of the Human Heart
- 25 The Circulatory System

- 26 Pulmonary Circulation
- 27 Transverse Section of an Artery and a Vein
- 28 The Capillary System of Villi
- 29 The Valves of Veins
- 30 Blood Corpuscles
- 31 Air-cells of the Lungs
- 32 Diagram showing the position of the Valves of the Heart during Relaxation
- 33 Diagram showing the position of the Valves of the Heart during Ventricular Contraction
- 34 Circulation of Blood in the Web of a Frog's Foot
- 35 The Cerebro-spinal Nerve System
- 36 The Sympathetic Nerve System

**E**

These

- 1 Man's hand
- 2 Various of wooden
- 3 Human foot
- 4 Living human crampet
- 5 Hand of a
- 6 Cigars in a substance, sparcen; ebonite, nias, at Plaster carbon,
- 7 Human hat
- 8 Living human
- 9 Lady's hand bone in
- 10 Steel eyegh
- 11 Lady's hat heald
- 12 Gentleman
- 13 Working in
- 14 Spectacles
- 15 Man's brok
- 16 Mr. Rowlar shadowg
- 17 Broken arm
- 18 Man's foot
- 19 Child's foot
- 20 Child's ank
- 21 Child's hand cation o
- 22 Hand of m
- 23 Foot of man
- 24 Infant aged column,
- 25 Boy's hand,
- 26 Boy's chest
- 27 Photograph backton
- 28 Man's foot,
- 29 Man's elbow
- 30 Lead pencil
- 31 Man's hand
- 32 Lady's hand

Take

- 33 Man's skull
- 34 Woman's h
- 35 Boy's tumc bore in t
- 36 Boy's forea case as 2
- 37 Woman's h
- 38 Young boy's
- 39 Hand of M
- 40 Foot of Mu
- 41 Mummy cat
- 42 Mummy bir
- 43 A knee joint
- 44 Complete S
- 45 Infant inje

Taken b

- 46 Pte. B. shot
- 47 Pte. E. shot, extracted pieces bel
- 48 Pte. G. wot shell in f
- 49 Pte. B. shot Mauser, which is t



## EDUCATIONAL SERIES OF SLIDES—Continued

## E RONTGEN "X" RAY PHOTOGRAPHS.

These "X" Ray Lantern Slides are printed direct from the original Negatives.

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Plain Photographs, 1s. each, except where otherwise marked.

ED

SYSTEM.

System  
showing  
of Brain, showing  
of nerves

ES.

endings in Skin  
of Noseof Eye  
structure of Eye  
Apparatusnx, &c.  
re of Bone  
re of Teeth  
re of Muscle  
rowth of Nailculat'on  
ion of an Artery

System of

Veins

es

Lungs

ng the position

s of the Heart

ation

ng the position

s of the Heart

Blood in the

og's Foot

spinal Nerve

ic Nerve System

- 1 Man's hand; index finger shows incipient gout
- 2 Various objects photographed while inside a wooden box
- 3 Human foot, showing bones spread as in walking
- 4 Living human foot in sock, showing bones cramped together by the sock
- 5 Hand of a lady
- 6 Cigars in an Aluminium fluted case, and various substances showing different degrees of transparency. *Left hand column.*—Gutta-percha, ebonite, slate, sulphur, sealing wax, sal ammoniac, and Calc Spar. *Right hand column.*—Plaster of Paris, red vulcanized fibre, ebony, carbon, mahogany, resin, and paraffin
- 7 Human hand, displacement of middle finger
- 8 Living human hand, showing damaged bones
- 9 Lady's hand, showing needle under metacarpal bone in palm
- 10 Steel eyeglasses in leather case
- 11 Lady's hand, tops of two fingers crushed and healed
- 12 Gentleman's hand with ring
- 13 Working man's hand
- 14 Spectacles in shagreen case
- 15 Man's broken finger badly set
- 16 Mr. Rowland's laboratory; process of taking a shadowgraph
- 17 Broken arm badly set
- 18 Man's foot
- 19 Child's foot, 10 years old
- 20 Child's ankle, 10 years old
- 21 Child's hand, 6 years old, showing partial ossification of the bones
- 22 Hand of man (*Gout*)
- 23 Foot of man (*Gout*)
- 24 Infant aged three months, showing vertebral column, ribs, &c.
- 25 Boy's hand, showing incomplete ossification
- 26 Boy's chest, showing halfpenny he had swallowed
- 27 Photograph through a man's chest, showing backbone and ribs and heart
- 28 Man's foot, side view, showing ankle bones
- 29 Man's elbow joint
- 30 Lead pencil and horn magnifier
- 31 Man's hand, showing pieces of iron
- 32 Lady's hand, with diamond rings

Taken by A. A. C. Swinton, Esq.

- 33 Man's skull, the lower portion
- 34 Woman's hand, with bullet flattened in the wrist
- 35 Boy's tumorous hand showing the particle of bone in the tumours
- 36 Boy's forearm, showing protruding bone; same case as No. 37
- 37 Woman's hand, needle embedded
- 38 Young boy's hand, with bullet in the wrist
- 39 Hand of Mummy, 3,000 years old
- 40 Foot of Mummy. (Lady)
- 41 Mummy cat
- 42 Mummy bird
- 43 A knee joint, normal
- 44 Complete Skeleton of a Boy, 14 years old. 2s.
- 45 Infant injected, showing veins and arteries. 2s.

Taken by Cheyne Wilson, Esq. M.D.

- 46 Pte. B. shot at Gripsville. Mauser bullet in hip
- 47 Pte. E. shot at Pretoria near the knee, and bullet extracted near the ankle, leaving two small pieces behind
- 48 Pte. G. wounded at Friedrichstaad, pieces of shell in forearm
- 49 Pte. B. shot at Pieter's Hill by a soft-nosed Mauser, which bent on hitting the femur which is fractured

- 50 Pte. C. shot at Paardeburg, Cronje's Laager. Bullet entered in front under the clavicle, seen lying on the last rib. Unsuccessful attempts were made at Cape Town to find it
- 51 Pte. E. shot in the hip with exploding bullet at 20 yards range at Wakerstroom
- 52 Pte. O. C. shot at Laand's River in thigh. Bullet flattened and thigh fractured
- 53 Trooper C. shot in elbow. Fractured joint
- 54 Bomb. C. shot in thigh. Piece of shell present
- 55 Pte. H. shot in the thigh by exploding bullet at Paardeburg, Cronje's Laager
- 56 Pte. G. shot in the thigh at Wakerstroom
- 57 Fracture of an ankle joint of a soldier who fell nearly 40 feet and pitched on his foot
- 58 Pte. G. shot in chest in lower part of sternum at Driefontein. Mauser bullet lying in heart's shadow
- 59 Fractured ankle in man
- 60 Bullet in boy's femur
- 61 Fracture of Humerus clavicle
- 62 Fractured femur wired together. Wire *in situ*
- 63 Bullet in ulna of boy shot by a toy pistol
- 64 Penny in oesophagus of a girl
- 65 Fractured elbow
- 66 Fractured wrist
- 67 Jaw with swelling showing the teeth
- 68 Pelvis of child
- 69 Needle in the hand, showing eye of needle
- 70 Fractured (compound) leg pinned together. Taken through the splints
- 71 Fractured hip of child
- 72 Small bullet in hand of young man
- 73 A Soldier's knee with a piece of shell, shot near Pekin. Shell since removed and patient well. (One of the very few cases taken in England from the War in China)
- 74 Dislocation of shoulder joint (not often obtained, as the dislocation is usually reduced before an X ray photo can be taken)
- 75 A fractured thigh
- 76 A bony tumour growing from the femur
- 77 Part of a pom-pom cartridge case in a man's brain
- 78 Small lead pellet in boy's eye
- 79 Fractured finger of man
- 80 Darning-needle showing the eye in a lady's hand
- 81 Part of the ulna (forearm) shot away in Boer War
- 82 Injury to a boy's elbow joint
- 83 Needle in a lady's knee
- 84 "
- 85 Needle in a boy's hip

Taken by Messrs. Coxeter and Son.

- 86 Coin in oesophagus
- 87 Exostosis of tibia (showing arteries)
- 88 Necrosis of radius
- 89 Bullets in arm
- 90 Hand with five fingers
- 91 Ossifying sarcoma (head of humerus)
- 92 Fracture of tibia
- 93 Hip dislocation
- 94 Leg rickets

Birds, Animals, Reptiles, Shells.

- 95 Bones in the legs and feet of a living frog
- 96 Fish, sole, showing bones, etc.
- 97 Fish, plaice, showing bones, etc.
- 98 Puppy dog, one day old
- 99 Frog, showing bones broken leg
- 100 Chicken's foot
- 101 Young pigeon, 10 days old
- 102 Dove, showing bones and feathers
- 103 Mouse
- 104 Three-live frogs
- 105 Tortoise
- 106 Snake, showing all the bones



## RONTGEN "X" RAY PHOTOGRAPHS—Continued.

- |   |  |
|---|--|
| 107 Fully Clothed Man, showing watch-chain, etc.                          | 113 Small Stones in Uretur.  |
| 108 Chest taken in about 1-10 of second, showing very sharp heart shadow. | 114 Bismuth Meal in Stomach immediately after taking the meal, stomach having Hourglass Stricture. |
| 109 Chest as above, a different view.                                     | 115 Bismuth Meal in Stomach after 2 hours.   |
| 110 Stomach after patient had taken bismuth meal.                         | 116 " " " after 7 hours.   |
| 111 Bismuth arrested in Oesophagus.                                       | 117 " " " after 7 hours.   |
| 112 Bismuth in the Intestines.  |  |

## Z U

## PATHOLOGICAL TISSUES.

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- |                                       |   |  |
|---------------------------------------|---|--|
| 1 Pleura, Pleurisy.                   | 26 Liver, Acute Atrophy.                                    | 52 Testis, Tuberculous.                        |
| 2 Lung, Pneumonia, Red Hepatization.  | 27 " Gumma.   | 53 " Syphilitic.                               |
| 3 " Pneumonia, Gray Hepatization.     | 28 " Lardaceous and Leukemic.                               | 54 Suprarenal, Tuberculosis.                   |
| 4 " Broncho-pneumonia.                | 29 " Carcinoma.   | 55 Oesophagus, Carcinoma.                      |
| 5 " Miliary Tuberculosis.             | 30 " Sarcoma.   | 56 Stomach, Acute Gastritis.                   |
| 6 " Chronic Fibroid Phthisis.         | 31 " Tuberculosis.  | 57 " Chronic Gastritis.                        |
| 7 " Bronchitis.                       | 32 " Fatty.   | 58 " Peptic Ulcer.                             |
| 8 " Infarction.                       | 33 Pancreas, Fibrosis.                                      | 59 " Carcinoma.                                |
| 9 " Secondary Carcinoma.              | 34 " Hyaline Degeneration of Langerhans Islands (Diabetes). | 60 Intestines, Acute Enteritis.                |
| 10 " Secondary Sarcoma.               | 35 " Carcinoma.   | 61 " Typhoid Ulcer.                            |
| 11 Trachea, Diphtheria.               | 36 Spleen, "Sago."  | 62 " Tuberculous Ulcer.                        |
| 12 Nose, Nasal Polypus.               | 37 " "Bacon."   | 63 " Carcinoma.                                |
| 13 Pericardium, Pericarditis.         | 38 " "Hardbake."  | 64 Vermiform Appendix, Catarrhal Inflammation. |
| 14 Heart, Acute Myocarditis.          | 39 " Tuberculosis.  | 65 " Suppurative and Gangrenous Inflammation.  |
| 15 " Fatty Degeneration.              | 40 Kidney, Acute Nephritis.                                 | 66 " Chronic Obliterative Inflammation.        |
| 16 " Fibroid Disease.                 | 41 " Large White.   | 67 Rectum, Polypus of.                         |
| 17 " Acute Valvulitis.                | 42 " Small White.   | 68 Lymphatic Gland, Tuberculous.               |
| 18 " Infarct of Heart Wall.           | 43 " Granular.  | 69 Breast, Mastitis (acute).                   |
| 19 Aorta, Atheroma.                   | 44 " Lardaceous.  | 70 " Mastitis (chronic).                       |
| 20 Arteries, Syphilitic Endarteritis. | 45 " Infarction.  | 71 " Fibro-adenoma.                            |
| 21 Thyroid Gland, Goltre.             | 46 " "Surgical."  | 72 " Carcinoma.                                |
| 22 Liver, Nutmeg.                     | 47 " "Congenital Cystic."                                   | 73 Uterus, Chorion-epithelioma.                |
| 23 " Multilobular Cirrhosis.          | 48 " "Suprarenal Rest" in.                                  | 74 Scolia from Hydatid Cyst.                   |
| 24 " Monolobular Cirrhosis.           | 49 " Tuberculosis of.                                       | 75 Strongylus in Lung.                         |
| 25 " Pericellular Cirrhosis.          | 50 Bladder, Cystitis.                                       |  |
|                                       | 51 " Villous Tumour of.                                     |  |

## A B P

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| 3 Scarlet-fever Rash.                         | 7 Moluscum Fibrosum on Leg. | 12 Scabies and Impetigo on Arm. |
| 4 Shingles, Herpes Intercostalis.             | 8 Chicken-pox Rash.         | 13 Melanotic Sarcoma.           |
|   | 9 Circinate Ringworm.       |                                 |

- |  |  |
|--|--|
| 14 Rickets. Harrison's Sulcus in Chest     | 31 Severe Ringworm resembling Actinomycosis          |
| 15 Tuberculous Testis                      | 32 Dental Cyst and Caries                            |
| 16 Infant carried on Pillow                | 33 Achondroplasia in Child of 3                      |
| 17 Deformity of Feet. (From tight boots)   | 34 Sarcoma of Hand                                   |
| 18 Moluscum Fibrosum of Back               | 35 Double Hare-lip and Cleft Palate                  |
| 19 Large Scrotal Hernia                    | 36 Scars round Angle of Mouth in Congenital Syphilis |
| 20 Meningocele in Occipital Region         | 37 Meningocele in Gluteal Region                     |
| 21 Trichina Spiralis in Pork               | 38 Actinomycosis of Face                             |
| 22 Myeloid Sarcoma of Lower End of Femur   | 39 Congenital Hernia into Umbilical Cord             |
| 23 Thickened Epiphyses of a Rickety Wrist  | 40 Great Hypertrophy of Breasts                      |
| 24 Rickets in a Child. Genu Valgum         | 41 Winged Scapula                                    |
| 25 Sub-conjunctival Haemorrhage            | 42 Rickets. Harrison's Sulcus                        |
| 26 Primary Sore on Lip and Secondary Signs | 43 Back of Eye affected by Chronic Alcoholism        |
| 27 Accessory Auricles                      | 44 Back of Normal Eye                                |
| 28 Primary Sore on Lip                     | 45 Back of Eye affected by Tuberculosis              |
| 29 Sucking Cushion in an Infant            |  |
| 30 Umbilical Hernia in Child of 5 months   |  |

## W V

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- 1 Round Cell expanding a
- 2 Fibro-Sarcoma bone, and
- 3 Acute Tuberc (with nec
- 4 Simple Peric below the
- 5 Tubercular I losis in m
- 6 Myeloid Sarc within the
- 7 Acute Suppu (with necr
- 8 Central Absc and the p
- 9 Chronic Sypl Tertiary S
- 10 Necrosis of repair, ex
- 11 Early Tuberc (oskitis an
- 12 Exostosis of duration of
- 13 Exostosis of peduncula

WORK I  
A E W

- 1 Morning Scene
- 2 Male Surgical
- 3 Female Medic
- 4 Supplying Me
- 5 Old Operating
- 6 New Operatin
- 7 The Dispensar
- 8 Manufacturin

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Text I

- 1 Artificial Res
- 2 " "
- 3 " "
- 4 A Reef Knot
- 5 First Aid treat
- 6 " "
- 7 " "
- 8 " "
- 9 " "
- 10 " "
- 11 " "
- 12 Soap and Arm
- 13 " " Back
- 14 A Shoulder Ba
- 15 Compression o
- 16 " "



## WV

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- 4 Simple Periostitis of Tibia (showing the swelling below the Periostitis)
- 5 Tubercular Knee Joint (showing the bony ankylosis in malposition which follows)
- 6 Myeloid Sarcoma of Fibula (the Growth entirely within the bone)
- 7 Acute Suppurative Osteitis and Periostitis of Tibia (with necrosis, etc.)
- 8 Central Abscess of Tibia (showing abscess cavity and the periostitis set up around it)
- 9 Chronic Syphilitic Inflammation of Radius (due to Tertiary Syphilis)
- 10 Necrosis of Radius (showing loss of bone and repair, cavities in bone, etc.)
- 11 Early Tubercular Disease of Ulna and Phalanx (osteitis and periostitis)
- 12 Exostosis of Tibia (Cartilagenous type, long duration extension bony deposit)
- 13 Exostosis of Tibia (ordinary Cartilagenous type, pedunculated)
- 14 Early Tubercular Disease of Phalanx (osteitis, periostitis, abscess around)
- 15 Small Central Abscess of Tibia (three positions of bones) A B C
- 16 " " " " " B
- 17 " " " " " C
- 18 Exostosis of Phalanx (almost entirely cartilage)
- 19 Exostosis of Tibia (almost entirely bone, with broad base)
- 20 Osteoma of Phalanx (entirely bony growth, no cartilage)
- 21 Sarcoma growing from Phalanx of Index Finger
- 22 Round-Celled Sarcoma of Femur in the living subject
- 23 Ditto after removal
- 24 Tubercular Disease of Shoulder Joint (affecting the glenoid cavity and the inner side of head of humerus)
- 25 Myositis Ossificans, Left Thigh
- 26 Coxa Vara, Adult, Right and Left Hip Joints
- 27 " " " " " "
- 28 Pes Capris " " " "
- 29 Acute Suppurative Osteitis (recovery with altered and thickened bone)
- 30 Coxa Vara and Rickets, Child
- 31 Acute Periostitis of Humerus

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- 13 " " " " Back
- 14 A Shoulder Bandage
- 15 Compression of the Temporal Artery
- 16 " " " " Carotid
- 17 Compression of the Subclavian Artery
- 18 " " " " Axillary
- 19 " " " " Femoral
- 20 " " " " " by Tourniquet
- 21 " " " " Tibial Arteries
- 22 Fracture of left Clavicle or Collar Bone
- 23 Large Arm Sling
- 24 Compression of the Brachial Artery
- 25 " " " " Radial and Ulna Arteries
- 26 The Hip bandage
- 27 The Chest bandage (back)
- 28 " " " " (front)
- 29 Diagram of the Human Frame. The Skeleton
- 30 " " " " The Muscles, &c.
- 31 " " " " Scheme of Circulation