

救急痧術

救急療術

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RED CROSS MANUAL

OR

FIRST AID

AND

STRETCHER DRILL

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救 急 療 術

第 一 篇

講演骨之構造及血循環等。

(一) 以骨之一部份置於強性鹽酸 acid hydrochloric 內一二日。其土鹽礬質消蝕而動物各質剩留。則骨之構造可一目了然矣。

(二) 以磷酸鈣(石灰磷質) calcium phosphate 一瓶作試驗之準備

(三) 解說骨折後如何能接合。

(四) 以獸之關節(骨折)表證關節之構造。

(五) 以蛙掌皮置顯微鏡下表血循環(血運)之流行。

(六) 以豬羊之心肺表證心肺之構造。

解剖學及生理學

ANATOMY AND PHYSIOLOGY

研究救急療術者。對於解剖學及生理學。必須有粗淺之知識。解剖學述身體之構造。生理學述身體之作用。

解剖學及生理學

凡論身體。必先及骨骼 skeleton。骨之形繁。骨有軟骨(肋) cartilage or gristle。骨中滿含石灰鹽質 lime salts。此質中磷酸鹽 phosphate 佔最多數。骨之所以硬而勁者。因是故也。石灰鹽質每能爲酸所消蝕。軟骨則不能。幼童之骨。因尙未飽含石灰鹽質。故折斷。較難。

骨形。長者爲四肢骨。短者爲腕骨 wrist 爲踝骨 ankle 扁者爲顱骨 skull。而不規則者爲脊骨(脊椎骨) backbone。

關節 joints。骨與骨相連絡接合之處曰關節。茲分爲二。曰動關節(動性關節) movable joints。曰不動關節 immovable joints。後者即顱骨等關節是。前者則分爲四種。(甲)杵臼關節 socket joints。如肩關節 shoulder 及臑關節 hip joint 是。(乙)屈戍(伸屈)關節 hinge。如肘關節 elbow 及膝關節 knee 是。(丙)車軸關節 pivot joint。如脊柱上端之首關節是。(丁)磨動關節(平滑關節) gliding joint。如各脊椎之關節是。凡骨與骨相連接之處(即關節)。其骨面有軟骨包之。更有膜出滑液

synovia。故柔潤而易轉動。且無聲。關節四周有關節囊(裹筋帶) capsule。而靱帶(筋帶) ligaments 更將骨纏連。故轉動而骨不致脫筭(即移位)。

茲將骨骼分爲三部。以便研究。第一部爲頭顱骨。第二部爲軀幹骨。第三部爲四肢骨。頭顱骨內腔一腔。內藏腦府。此腔底有一孔。脊柱之上端卽在此處。而腦髓由此孔入脊管成脊髓(脊腦)。軀幹分二腔。一爲胸腔 chest。前有胸骨 breast bone。後有脊椎骨 back bone。左右有肋骨 ribs。下有膈 diaphragm。一爲腹腔 abdomen, 下有骨盆 pelvis。盆爲兩髖骨所成(見第一圖)

顱腔內所包含之物。卽腦 brain, 分爲大腦 cerebrum, (即精神機關)。小腦 cerebellum 及延髓(延腦) medulla oblongata。延髓爲脊髓 spinal cord 之發源處。脊髓者。由兩種神經(腦經)所組成。一由腦下降。曰運動(司動)神經 motor nerves。一自皮及他處上升。曰感覺(司覺)神經 sensory nerves。譬如搔小兒之足心。或刺以針。足卽移避。此蓋搔或刺之感覺

第 二 圖

背 面

