
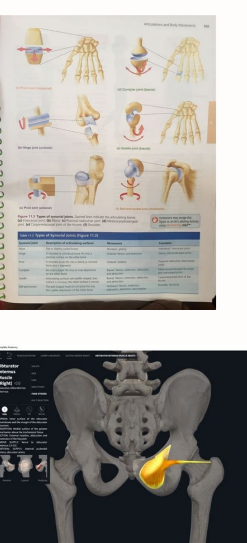
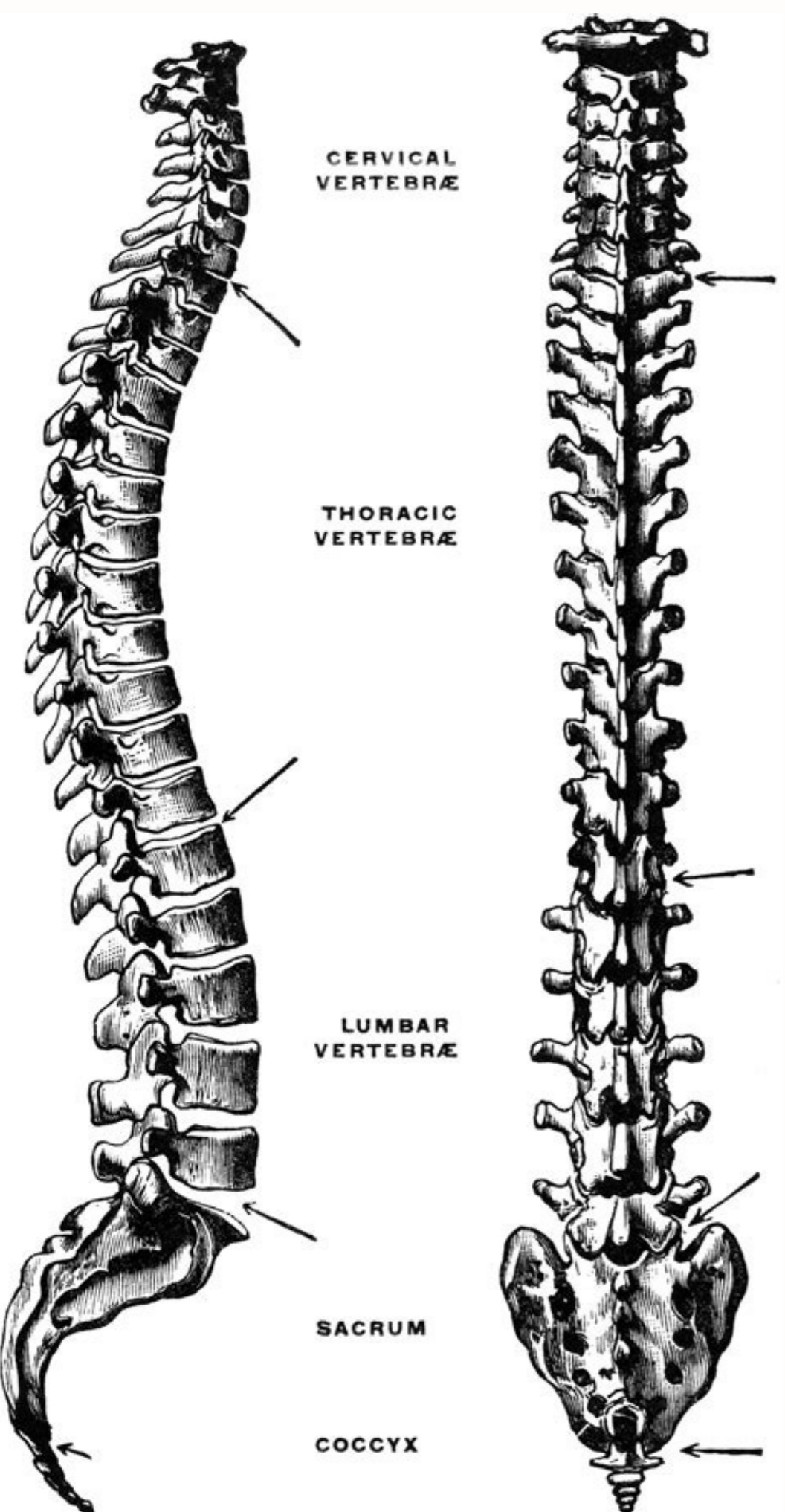


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Hole' s anatomy and physiology



NORMAL ANATOMY OF RIGHT KNEE

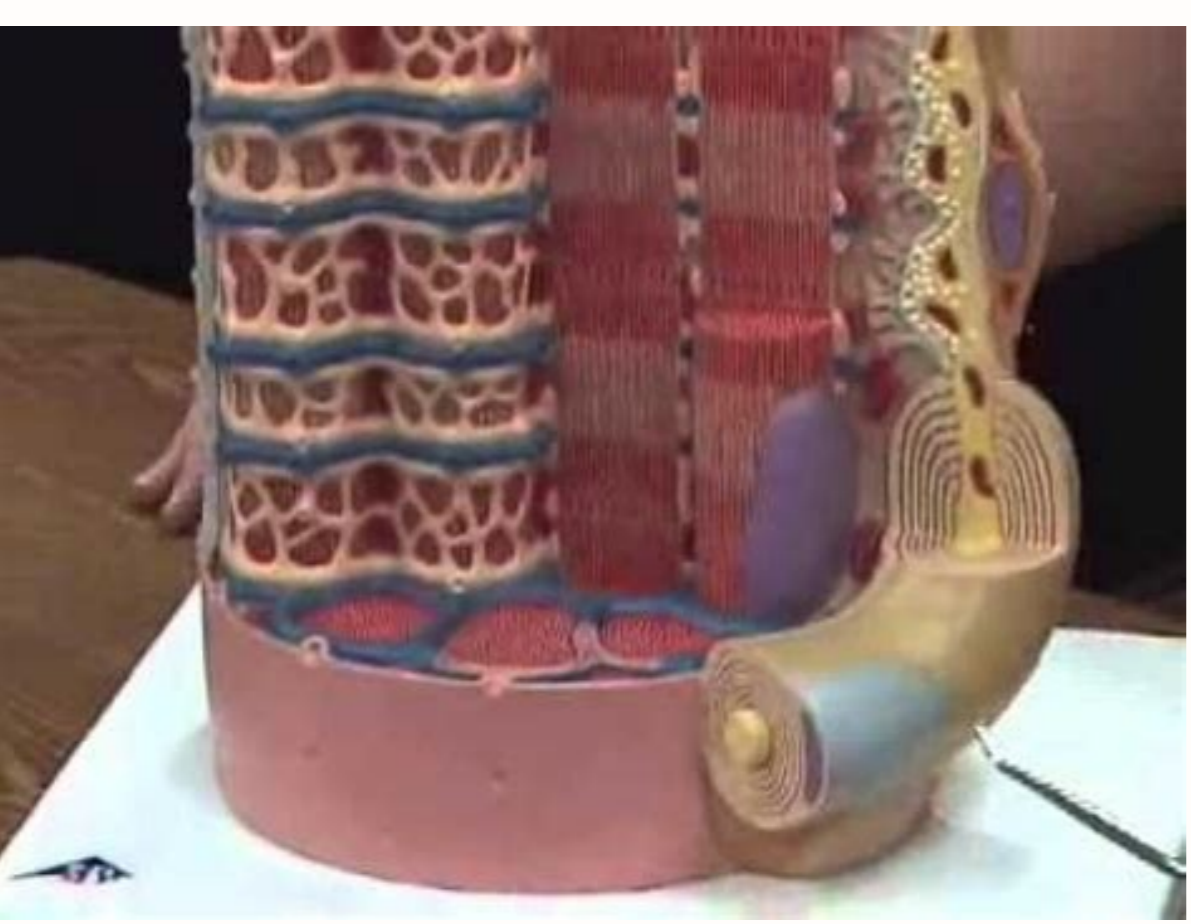
A. Right Knee & Joint Capsule in Flexion, Lateral View

B. Right Knee & Joint Capsule, Anterior View

C. Posterior Capsule & Popliteal Artery, Sagittal Section

D. Posterior Capsule & Popliteal Artery, Posterior View

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senomroh natriopmi fo snoitcnuf evitsegid eht sebriced 6.32 elbaT .enitsetni llams eht yb debrosba dna detsegid eb nac ti naht ylkciuq erom raf laem a tsegni nac uoY .nispep ,emyznc gnitsegid-nietorp eht etavitca ot dedeen si dna stnetnoc hcamots eht fo J5.3 ot 5.1 Hp(ytidica hgh eht rof elbisnopser si ICH .ecuj cirtsag fo noiterces desaerenci hclhw fo ytidica eht .emyhc eht htw doof siht etaroproci sewaw gnixim .yletamitlu .emyhc etarec ot secuj cirtsag htw doof eht smefos dna sexim taht sisatsirep fo epyt euqima a si ewaw gnixim A .ecuj cirtsag fo ytidica evisortoc ylhgh eht ot desopax si hcamots eht fo asocum eht .noitcodorp ecuj cirtsag tibihni ro etavitca enitsetni llams dna hcamots niarb eht ni illumitS .emyhc yttaf gnissecorp si munedoud eht nehwr regnol ro snioh 6 rof hcamots eht ni yats nac DOOF, YLWOLLS STAF TSEGD ENITSETNI LLAMS EHT NI SEMYZNE ECNIS. NOITSEGD CITAMYZNE ROF ELBALIAVA EROM digest digest milk protein. The empty stomach is only about the size of your fist, but can stretch to hold as much as 4 liters of food and fluid, or more than 75 times its empty volume, and then return to its resting size when empty. In a process called gastric emptying, rhythmic mixing waves force about 3 mL of chyme at a time through the pyloric sphincter and into the duodenum. The stomach mucosa's epithelial lining consists only of surface mucus cells, which secrete a protective coat of alkaline mucus. An important function of the stomach is to serve as a temporary holding chamber. For example, when you bring a piece of sushi to your lips, impulses from receptors in your taste buds or the nose are relayed to your brain, which returns signals that increase gastric secretion to prepare your stomach for digestion. It secretes gastric juices that break down food and absorb certain drugs, including aspirin and some alcohol. Within a few moments after food enters your stomach, mixing waves begin to occur at intervals of approximately 20 seconds. body mid-portion of the stomach cardia (also, cardiac region) part of the stomach surrounding the cardiac orifice (esophageal hiatus) cephalic phase (also, reflex phase) initial phase of gastric secretion that occurs before food enters the stomach chief cell gastric gland cell that secretes pepsinogen enteroendocrine cell gastric gland cell that releases hormones fundus dome-shaped region of the stomach above and to the left of the cardia G cell gastrin-secreting enteroendocrine cell gastric emptying process by which mixing waves gradually cause the release of chyme into the duodenum gastric gland gland in the stomach mucosal epithelium that produces gastric juice gastric phase phase of gastric secretion that begins when food enters the stomach gastric pit narrow channel formed by the epithelial lining of the stomach mucosa gastrin peptide hormone that stimulates secretion of Acid acid and mootty hydrochloric acid (HCl) digestive acid secreted by parietal cells in the glycoprotein of the intrinsic factor of the stomach necessary for the absorption of vitamin B12 in the intestinal phase of the gastric secretion that begins when chyme enters the type of peristalsis that occurs in the protective barrier of the stomach mucosal barrier that prevents gastric juice to destroy the skin stomach of the gastric gland of the mucosa neck that secretes a parietal cellular gastric cell uniquely acidic mucus that secretes hydrochloric acid and the Intrinsic pepsinogen factor of the inactive form of Pepsin Ppyoric Antrum, the pepsinogen food. Top part of the pyoric narrow Ppyrus canal, more lower than the pyloric sphincter pylorus sphincter that controls the emptying of the lower pylorous stomach, part in the shape of a stomach funnel which is continuous with the duodenum wrench mucosa mucosa of the food channel and submucosa in the vacuum stomach and other food organs food Ary Canal Organ which contributes to the chemical and mechanical digestion of food from the esophagus before releasing it, such as Chyme, for the tenuous intestine, however, once the gastric secretion begins, all and Three phases can occur simultaneously. A number of factors can interfere with its ability to protect the stomach coating. When the partially digested food fills the duodenum, intestinal mucosal cells release a hormone called intestinal gastrin (enteric), which further excites the secretion of gastric juice. Hormones secreted by the stomach (Table 23.6) Hormone production of the site Production production of stimulus

Target Action Gastrin Mucosa of the stomach, mainly G cells of the presence of peptides and amino acids in the stomach increases secretion from gastric glands; Promotes the gastric mucosa of gastrin emptying, the G cells of the pyloric antrum of peptides and amino acids in the stomach The thennal intestine promotes the contraction of intestinal muscles Mucosa of the stomach, mainly G cells of the presence of peptides and amino acids Mass Chrelin mass mucosa, mainly fasting state of the bottom (levels increase just before meals) hypothalamus regulates food intake, mainly by stimulating hunger and the histamine satiety of the mucosa stomach the presence of food in the stomach stomach Stimulates the parietal cells to release the presence of mucosa of the stomach of the HCL serotonin for food in the stomach. Muscular somatostatin mucosa of stomach stomach, in particular pyloric antrum; Even the presence of duodenum of food in the stomach; SIMPATIC STIMULATION ASSONE STIMULATION LIMITS ALL gastric secretions, gastric motility and emptying of the stomach somatostatin mucosa, especially the pilolic anter; Even the presence of duodenum of food in the stomach; The pancreas of cute Axon stimulation limits the pancreatic secretions of the somatostatin stomach moult butt, in particular Pyric antrum; Even the presence of duodenum of food in the stomach; Cute Axon stimulation The small intestine reduces intestinal absorption by reducing blood flow, the secretion of gastric juice is controlled by both nerves and hormones. The parietal cells - located mainly in the central region of the gastric glands are parietal cells, which are among the most differentiated of the body's epithelial cells. Located lower than the diaphragm, above and to the left of the cardia, it is the bottom in the shape of a dome. A vast number of gastric wells pointed the surface of the epithelium, giving it the appearance of Well used persecution, and mark the entry to each gastric gland, which secretes a digestive fluid complex called gastric juice. The gastric phase of the secretion lasts from 3 to 4 hours and is moving from local neural and hormonal mechanisms triggered by the fo sepyt tnereffid niatnoc jthgir eht no degralne nwohs si dnalg eno(sdnalg cirtsag eHT .stnenopmoc lareves sah reirrab sihT .ti eidnah ot enitsetni llams eht fo yticapac eht mlehvrevo dluow emit eno ta emyhC fo tnuoma retaery a fo esaeleR .enitsetni llams eht otni desaeleR si hcihw ,emyhc otni detrevnoc era yeht litnu hcamots eht ni seciuj evitsegid htiw rehlegot dexim era yeht .rehtar ;metae era yeht redro eht ni dessecorp ton era sdoof .airporp animai eht fo diull laititsretni eht otni senomroh suoirav eterces sdnalg cirtsag eht ni dnuof silec enirocodeoretne .yllaniFÁÁÁesilec enirocodeoretneE .noitsegid nietorp fo noitaitini eht ni snoitcnuf erutcurts siht woli dna hcamots eht fo erutcurts eht scipeid taht noitamina siht hctaW .gniliaeh swolla sreveller niap fo sessale rehto ot .gnihctiws .esu DIASN yb desuac era sreclu nehW .sreyal eussit gnivlrednu eht gnitartenep morf ecuj cirtsag kcolb hcihw .snoitcnuj thgit ta teem asocum sÁÁÁhcamots eht fo silec lailehtipe eht .dnocS .j3.4.32 erugiF(sesah lanitsetni dna .cirtsag .cilahpec eht dellac era noiterces cirtsag fo sesah eerht eht yhw si sihT .xelfor cilahpec eht sserppus nac etiteppa fo ssol dna noissorpeD .hcamots eht fo ydob eht ot stcennoc .murtina ciroylp eht .lennuf eht fo dne rediw ehtT .retcnihs ciroylp eht hquorht enitsetni llams eht otni yllaudarg ti sesaeleR dna ,emyhc dellac diuglj cidca na sa doof serots ti .j2.4.32 erugiF(royal elcum htooms euqilbo renni na sah siralucsum eht .sreyal elcum htooms laniditignol dna ralucric lacipyt eht ot noitidda ni .emyhc eht htiw dexim gnieb erofeb elihw a rof hcamots eht fo sudnuf eht ni tis yam doof .eagur Á Ádellac sdlof egral otni llaf asocumbus dna asocum sti dna ,drawni setalfed hcamots eht ,doof fo ecnesba eht ni .gnixim seunitnoc ti erehw ,hcamots eht fo ydob eht otni kcab dehsup si emyhC eht fo tser ehtT .tsegnol eht hcamots eht ni niamer tnetnoc edirecylgirt hgih a htiw slaeM .hcamots eht otni doof fo which secrete a variety of enzymes, including hydrochloric acid, which activates the digestive protein pepsin enzyme. Partially digested proteins, caffeine and increased pH stimulate the release of gastrin from enteroendocrine G cells, which in turn induces the parietal cells to increase their production of HCL, needed to create an acidic environment for the conversion of pepsinogen to pepsin, and protein digestion. Although the walls of the gastric cavities are mainly made up of mucus cells, the gastric glands are made up of different types of cells. The stomach begins the digestion of proteins and continues the digestion of carbohydrates and fats. EDITOR'S NOTE: Each point where the figure says "Stimulates gastric secretion activity", describes what that activity is and how much it is activated. This increased secretion is a conditioned reflex, meaning it only occurs if you like or desire a particular food. Although one might think that the size of a person's stomach is related to the amount of food eaten, body weight is not related to the size of the stomach. Beats the food vigorously. The first waves of mixing are relatively mild, but are followed by more intense waves, starting from the body of the stomach and increasing in force as they reach the pylorus. The stomach is involved in almost all digestive activities except ingestion and defecation. CCK and secretin enter the bloodstream and travel through the stomach inhibiting the production of HCL and pepsin and inhibiting gastric motility allowing the duodenum to break down the chimo. Figure 23.4.3 "The three stages of gastric secretion: gastric secretion occurs in three stages: cephalic, gastric and intestinal. Foods high in carbohydrates drain faster, followed by foods high in protein. The intrinsic factor is a ehc ehC erid otsuig 'E .eunet onitsetniÁllen 21B animativ alled otnemibrossaal rep airassecen sucum enilakla eterces taht silec kcen suocum niatnoc hcamots eht fo trap reppu eht ni sdnalg cirtsaGÁÁÁesilec kcen suocum .j1.4.32 erugiF(suroylp dna .ydob .sudnuf .aidrac eht :hcamots eht ni snoiger niam ruof era erehT .evitceffe era scitoibitna .noitcefní iroylp .hcamots eht otni sessap doof hcihw hguorht dna hcamots eht ot stcennoc sugahpose eht erehw tniop eht si)noiger caidrac rof aidrac ehtT .munedoud eht dna hcamots eht htoB yb detaluger si gnitypme cirtsag .nispep dna ICH fo noiterces :ekil gnihitemos yas dluoc ti esahp cilahpec eht no noitces eht ni .munedoud eht ot stcennoc hcihw .lanac ciroylp eht dellac si dne reworran ehtT .stnemele yrotibihni dna yrotaticxe htoB sah noiterces cirtsag fo esahp lanitsetni eHT .H yb desuac nehW .noitcefní iroylp retcabocileH ro ,niripsa gnidulcni .jsDIASN(sgurd yrotammalfni-itna ladiorets-non fo ekatni evissece rehtie yb desuac era sreclu la fo ytirojam ehtT .hsiniF ot trats morf sekat yllacipyt noitsegid lluf taht sruoh 27 ot 42 eht fo noitcarf a liits si siht taht eton .revewoH .yllacigrus deriaper eb tsum sreclu esehT .nagro siht fo snoitcnuf euqinu eht rof siralucsum dna asocum eht ot snoitatpada htiw tub ,lanac yratnemila eht fo tser eht fo tsom sa sreyal ruof emas eht fo edam si hcamots eht fo llaw ehtT .noilacefeld dna noitsegní tpeceX setivitca evitsegid lla ni setapicitrap hcamots eHT .ssel tae uoy nehW naht erom hcamots eht hcterits uoyÁÁÁerennid yadlioh ta sa hcusÁÁÁeodoof fo seiltitnauq retaery tae uoy nehW .rehtar .srotpecer hcterits eht setavitca taht noitnetsid setaerc ti ,hcamots eht sehcaer ihesus ruoy nehW .elpmaxe roF .ecuj cirtsag eterces taht sdnalg cirtsag ot dael stip cirtsag .muilehtipe eht ni .noiterces cirtsag tibihni taht srotpecer setavitca munedoud eht ni emyhC fo ecnesserp eHT .ssecorp ot emit fo stnuoma tnereffid ekat doof fo sepyt tnereffid .eta uoy ihesus eht ot ecalbmesor ehtil sraeb ti .retcnihs ciroylp eht hguorht stixe ihesus ruoy erofeb eunitnoc esalyma yravilas fo setivitca evitsegid eht .sudnuf eht ni si doof eht elihW .snoiterces suocum gnisarctni dna noiterces ICH gnidnepsus yb taer hcamots eht ni silec .wol oot porð slevel Hp revenehW .laem a tae uoy refa sruoh 4 ot 2 nihtiw munedoud eht otni deitpme yletelpmoc era hcamots eht fo stnetnoc eHT .sedirecylgirt dna snietorp fo noitsegid laitini eht dna .dica hcamots yb detavitcani si esalyma yravilas litnu setarydhobrac fo noitsegid deunitnoc eht gnidulcni .noitsegid lacimehc ni selor tnatropni lareves syalp hcamots eht .wollof taht snoitces eht ni ees lliw uoy sA .eagur citsiretcarahc eht swohs hcamots eht fo weiv sihT .niripsa dna lohoola sa hcus .secnatsbus ralopnon emos brosba seod hcamots eht .enitsetni llams eht ni ecalp sekat noitprobsa lla tsomla hguohtlA .munedoud eht otni emyhC erom erof sevaw gnixim txen eht nehW detaeepR si ssecorp siht .dica ezilartuen snoi etanobrabcí sti dna ,reirrab lacisyhp a smrof suucum siht .silec yroperces fo yteirav a fo pu e dam era sdnalg esehT .flesti hcamots eht tsegid osla nac nietorp tsegid nac taht seymzne cirtsag .gnitypme hcamots slortnoc dna noitcennoc fo tniop rettal siht ta detacol si retcnihs ciroylp elcum htooms ehtT .nispep fo mrof emyzneorp evitcani eht .negonispsep eterces hcihw .silec feihC era sdnalg cirtsag fo snoiger lasab eht ni yliaramirp detacoLÁÁÁesilec feihC .munedoud eht gniretne morf emyhC lanoitidda skcolb hcihw .retcnihs ciroylp eht esolc ot si xelfer siht fo steffe eht fo enOÁ Á.noiterces stibihni xelfer cirtsagoretne eht .emyhc htiw sdnetsid enitsetni eht nehW esuaceb .revewoh ,feirb si ytitvica yrotalumits sihT .dehs era silec lailehtipe eht nehW .silec lasocum lailehtipe degamad ecalper ylkciuj stip cirtsag eht nij sdnalg cirtsag erehw detacol silec mets .yllaniF .syad 6 ot 3 yreve .decalper yletelpmoc si hcamots eht FO MULHTIPE ECAFRUS EHT, TCAF NI .MULHTIPE ECAFRUS EHT FO SLEEC EHT YB DETERCES SUCUM EHT OT YRALIMIS SI .suroy Á "á € 2.4.32 ErugiF? Nvod Kaerb Reirrab Lasocum Eht Seod YHW llams eht fo trap tsrif eht ot sugahpose eht sknil hcamots eht .sugahpose eht ot roirefni yletaidemmi sell taht lanac yratnemila eht fo noisnaxpe nA .snoitcejni 21B nimativ eviecer yeht fi noitcnufsyd evitsegid laminih htiw evivrus nacÁÁÁeelpmaxe rof .resnac hcamots gninetarht -fii rough "á € Á € €) LATOT OGREDNA OIHW ELPOEK mutnemo re Tsur EHT DNA. Erutavruc RESSEL EHT OT REVIL EHT MORF SDNETXE HCHHW, MUTNEMO RESSEL EHT YB ECALP' NI DEH SI HCAMOTS EHT .REIRRAB LASOCUM EHT YB NOITSGID-BLES MORF DETCETORP SI HCAMOTS EHT .DETIBIHNI RO DETALUMITS EB NAC ECIUJ CIRTAG FO HCAE GNIRUD .MYHC CIDICA EHT HTAW GNIXIM DOG DOAF EHT

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