

I'm not robot!

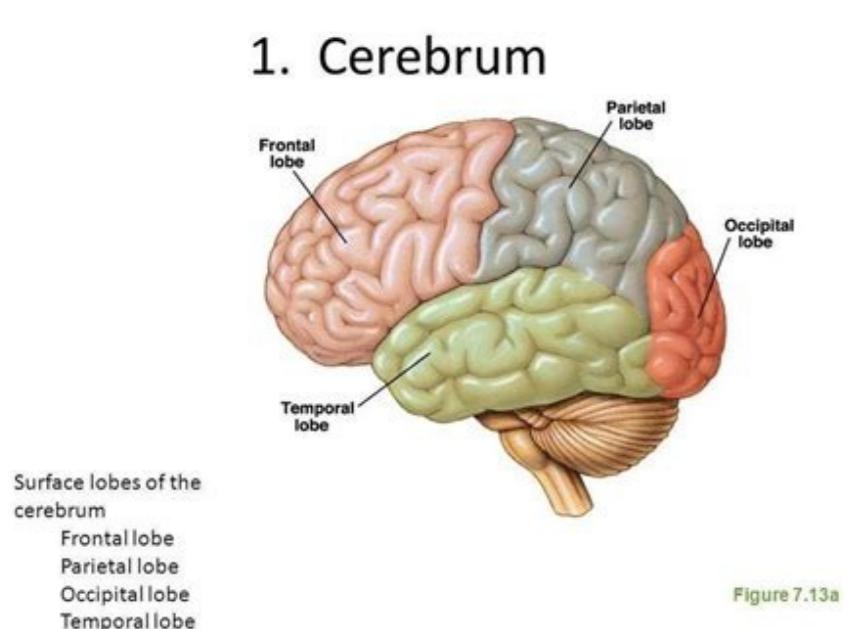
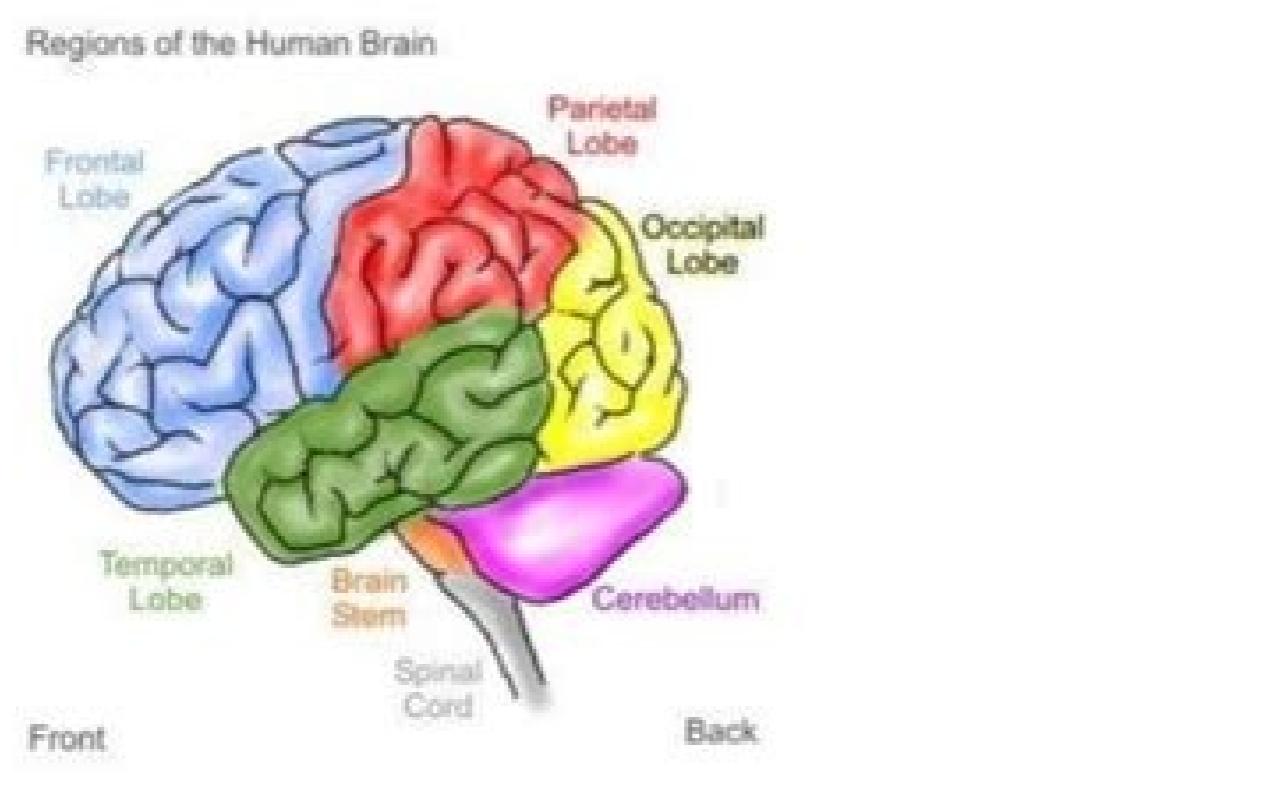


Figure 7.13a

Brain



ATAxia

Ataxia is a Degenerative Disease of the Nervous System Consisting of Lack of Voluntary Coordination of Muscle Movements

ATAxia is a Clinical Manifestation indicating DYSFUNCTION of the Parts of The NERVOUS SYSTEM that COORDINATE MOVEMENT

Brain

- Cerebrum
- Cerebellum
- Brain Stem

Neuromuscular Junction

- Motor Neuron
- Myelin
- Muscle Fiber
- Muscle

ATAxia SYMPTOMS

- Lack of Coordination
- Eye Movement Abnormalities
- Slurred Speech
- Trouble Eating and Swallowing
- Heart Problems
- Tremors and Deterioration of Fine Motor Skills
- Gait Abnormalities
- Difficulty Walking and Poor Balance

A central figure of a woman is shown with purple arrows pointing to various parts of her body (hands, feet, head) to illustrate the symptoms of ataxia.



A dna ,mets niarb eht ,droc lanips eht fo Trap Reppumni Niarbdnih Eht .Niarbdimâ Ä,eht ,Niarberofaä,eht :Stinu cisab eerht otni dedivid eht .Seitreorp nwo sti sahtporp nwo sti sti shi shi shi sht trap ,Rehtegot Krow is a long time strap eht lla .strepixe fo eettimmoc a ekil si niarb eht fo Egami .lanosyd ro desaesid si niarb eht nehw sneppah taww dna ,yhtlaeh ti peek , skrow niarb ,yhtlaetsid si niarb eht. yhtlaeh eht woh dnatsrednu uoy p and yam ti EHT FO stnemele rehto dna niarb eht no hcraeser fo tunorferof eht ta seirutnec suoiverp lla ni naht sraey 01 tsal eht ni niarb eht tuoba erom denrael evah stsitneicS .sterces sti hsiuqniler ot gninnigeb si niarb eht ,revewoh ,woN .elbisneherpmocni ylraen sa niarb eht deweiv yeht yltnecer litnu tub ,niarb eht yb detanicsaf neeb evah srehposolihp dna Stitneics ,Seirutnec Rof .ydot ,ydot nworc eht si niarb eht .ytinnamuh ruo eifed .Diulf sti .roivaheb fake ,tnemevo ,tnemevo ni. ,sesnes eht fo rerepretni ,ecnegilletni fo taeS eht si nagro dnuop-eerht sihT .ydot namuh eht fo trap xelpmoc tsom eht si niarb ehT noitcudortnI ekortS dna sredrosiD lacigolorueN fo etutitsnI lanoitaN ehT xetroC Larbeerc eht thguoht fo Yhpargoeg eht niarb eht fo yurutcetihcra eht noitcudni eruhcorb deliam eerf tseuq .dezylarap dna mra tfel eht evael nac eht eht fo erehpsimeh thigir eht edorts ,elpmaxe rof .detceffa ydot eht fo edis essel eht tgim tgir tgir tgir tgir yp slot tgir yp. eht fo edis tfel eht slortnec yliramirp erehpsimeh larberec thigir eht taht snaem sihT .niarb eht morf dna ot yaw rieht no revo ssorc asrev-eciv dna ydot eht ot niarb eht morf slangs eht fo lla ylraen ,nosaeR nwonknu-tey-sa emos roF . slliks gninosaer tcartsba ynam lortnec ot smeess erehpsimeh thigir eht elihw ,erehpsimeh tfel eht ni yliramirp eil ot smeess sdrow mrof ot ytiliba eht ,ecnatsni roF .tnereffid era yeht ,rehto hcae fo segami rorrim eb ot mees serehpsimeh owt eht hguohtLA .erussif siht fo esab eht ta seiL taht srebif evren fo tcart kcicht a hguorht rehto hcae htiw etacinummoc serehpsimeh larberec owt eht ,tilps eht etipseD .erussif peed a yb)serehpsimeh(sevlah owt otni tilps si murberec ehT .semag yalp dna ,skoob daer ,sdneirf ezingoc er ot ot ot ot ot ot ot os swolla ,seomem sdloh of .seitivitca lautcelletni fo craos eht dna fot yht yhitot essomt smomtamt taymsomt somtampot Eht Fo Serutcip Ees Ees "Niarb Renni Eht" Ees(The Htaeneb Neddih Serutcurts Eht Fo Amurberecâ Ä,eneht FO ssynoc is .stnevom Yratnalov rehto dna stnemevom fo lotnoc eht by devlovni tiucric eht fo trap snoitca xelfer emos restnec stnemevom eter denrael of devlovni ni dna tnemevom Setanidrooc mulleberec eht .Etar Traeh dna noitaripser of hcuS snoitcnuf lativ SâÄâÄâTob Eht Stelbdnih yarbdnich yarbdnic The Forbrain The Hindbrain The Geography of Thought Each cerebral hemispheres can be divided into sections, or Lóbulos, each of which specializes in different functions. To understand each ninth and its specialty we will take a tour of the cerebral hemispheres, starting with the two frontal lobes (3), which are directly detail from the forehead. When you plan a schedule, imagine the future or use reasoned arguments, these two libs do a lot of work. One of the ways in which the frontal lists seem to do these things is to act as short -term storage sites, allowing an idea to take into account while other ideas are considered. In the rear part of each frontal line is a motor zone (4), which helps control the voluntary movement. A nearby place in the left front zibulo called Broca (5) allows thoughts to be transformed into words. When you enjoy a good meal, the flavor, the aroma and the texture of the food, two details of the front z bous called parietal lists (6) are working. The front parts of these zós, just detriment of the motorized areas, are the main sensory areas (7). These people receive information on temperature, taste, touch and movement of the rest of the body. Reading and arithmâ © technique are also functions in the repertoire of each parietal bolt. Looking at the words and images of this página, two users on the back of the brain are at work. These zós, called occipital liburies (8), process images of the eyes and link that information with images stored in memory. Daâ ± o to occipital liburies can cause blindness. The last lines of our journey through the cerebral hemispheres are the temporary lines (9), which are in front of the visual users and nest under the and front legs. Whether you appreciate symphonies or rock music, your brain responds through the activity of theseAt the top of each temporal lobe is an area responsible for receiving ear information. The bottom of each temporal lobe plays a crucial role in the formation and recovery of memories, including those associated with music. Other parts of this lobe seem to integrate memories and sensations of taste, sound, view and touch. The Cortex Cerebral Coating the surface of the cerebrum and the ceebello is a vital layer of tissue the thickness of a stack of two or three cents. It's called bark, the Latin word for bark. Most of the actual information processing in the brain takes place in the cerebral cortex. When people talk about "grey matter" in the brain they're talking about this thin bark. The bark is grey because the nerves of this area lack isolation that makes most of the other parts of the brain seem white. The folds in the brain add to its surface and therefore increase the amount of gray matter and the amount of information that can be processed. The inner brain Deep within the brain, hidden from the eye, lies structures that are the porters between the spinal cord and the cerebral hemispheres. These structures not only determine our emotional state, but also modify our perceptions and answers depending on that state, and allow us to initiate movements that you do without thinking about them. Like the lobes in the cerebral hemispheres, the structures described below appear in pairs: each is doubled in the opposite half of the brain. The hypothalamus (10), around the size of a pearl, runs a multitude of important functions. He wakes you up in the morning, and gets the adrenaline to flow during a test or job interview. Hypothalamus is also an important emotional center, controlling the molecules that make you feel excited, angry or al al y lanipse alud©Äm al edsed y a n³Äicamrofni ed oibmacretni ed ortnec etnatropmi nu ,)11(omal;Ät le artneucne es omal;Ätopih led acreC la sanoruen sal erbos ohcum odidnerpa nah socifÄtneic soL 6 negamI .lanipse alud©Äm al atsaH orberec le edsed sejasnem navell euq sol omoc ,sogral yum res nedeup senoxa sol O .ollebac ed ohcna nu euq sonem a adlec arto a azetroc al ne adlec anu ed sela±Äes navell euq sal omoc ,sotroc yum res nedeup senoxa soL .sojel s;Äm y odip;Är s;Äm nejaiv sasoivren sela±Äes sal euq a aduya y n³Äxa le arap otneimalsia anoicroporp euq ,anileim adamall asarg aluc©Älom anu riulcni edeup aniav atsE .)61(etnalsia aniav anu ramrof arap n³Äxa led rodederaL nevleuvne es saluL©Äc ed sopit sonuglA .oyopa ed saluL©Äc sahcum rop adaedor ;Ätse etnemlareneg anoruen aL .onagr3Ä orto n³ÄglA ne saluL©Äc o ralucsum alul©Äc anu ,anoruen arto a)51(n³Äxa nu rop ralulec opreuc led sojel rajaiv nedeup y ralulec opreuc led s;Äavart a satirdned sal ed nasap ogeul sela±Äes sal . .nacirbaf es n³Äicnuf al y riviverbos atisecen anoruen al euq saluL©Älom sal ed aÄroyam al ednod ,oelc©Än le eneitnec)31(saluL©Äc ed opreuc LE .setrap sert ne netsisnoc sanoruen sal .sanoruen sal rop nasap euq sela±Äes ed odatluser le nos sotneimitnes y sodreucer ,sotneimasnep ,senoicasnes sal sadoT .anoruen adamall alul©Äc anu se airamirp lanoicnuf dadinu al oreP ,saluL©Äc ed setnerefid sopit sohcum rop sotseupmoc n;Ätse osoivren ametsis led otser le y orberec LE senoixenoc recaH 5 negamI .selasab soilgnag sol a necudnoc euq sasoivren saluL©Äc sal ed dademrefne anu se ,otarab y adigÄr atanimaC anu y zedigir ,serolbmet ne atluser euq ,nosnikraP ed dademrefne aL .sotneimivom rargetni e raicini ed selbasnopser noS .omal;Ät le naedor euq sasoivren saluL©Äc ed sopurc nos)nartseum es on(selasab soilgnag soL .oirasecen aes odnauc solrarepuer y ozalp ogral a otneimanecamla le arap larberec oirefsmeh led adaiporpa etrap al a sodreucer odnaivne ,airomem ed rodaxedni nu omoc aºÄtc a bun o±Äeuqep etsE .)21(opmacopih la omal;Ät le y omal;Ätopih le edsed ecudnec sasoivren saluL©Äc ed odaeuqra otcart nU I mean, I don't know. I'm not sure. JJ

parkinson's disease. many medications used to treat behavioral disorders work by modifying dopamine action in the brain. Neurological disorders the brain is one of the hardest working organs in the body. When the brain is healthy it works quickly and automatically. But when problems occur, the results can be devastating. About 100 million Americans suffer from devastating brain disorders at some point in their lives. the ninds supports research on more than 600 neurological diseases. Some of the main types of disorders include: neurogenetic diseases (such as huntington disease and mocular dystrophy), development disorders (such as cerebral palsy), degenerative diseases of adult life (such as parkinson's disease and alzheimer's disease), metabolic diseases (such as gaucher's disease), stroke diseases (such as brain and vascular dementia). Learn more about the brain can lead to the development of new treatments for nervous system diseases and disorders and improve many areas of human health. Since its creation by the Congress in 1950, the ninds has become the main supporter of neurological research in the United States. most of the researches funded by the Ninds are carried out by scientists in public and private institutions such as universities, medical schools and hospitals. government scientists also carry out a wide range of neurological research in the more than 20 laboratories and branches of the ninds. This research ranges from studies on the structure and function of individual brain cells to tests of new tools and diagnostic treatments for those with neurological disorders. for information on othersneurological or research programs funded by the Institute of Neurological Disorders and Stroke, contact the Institute's Brain Resources and Information Network (BRAIN) at: BRAIN P.O. Box 5801 Bethesda, MD 20824 (800) 352-9424 www.ninds.nih.gov Ä www.ninds.nih.gov Ä

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