

CENTRAL SKULL BASE ANATOMY AS SEEN THROUGH THE ENDOSCOPE

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What is the anatomy of the central skull base? The 5 bones that make up the skull base are the ethmoid, sphenoid, occipital, paired frontal, and paired temporal bones. The skull base can be subdivided into 3 regions: the anterior, middle, and posterior cranial fossae.

What is the endoscopic approach to the skull base? The endoscopic approach can be especially useful for tumors, aneurysms, CSF leaks, and other diseases of the skull base. Because this area is crowded with so many vital structures, and due to the difficulty in accessing skull base lesions, traditional or open surgery is not always ideal.

What is the anatomy of the internal base of the skull? The internal cranial base accommodates the brain, intracranial parts of the cranial and spinal nerves, meninges, intracranial blood vessels, and the cerebrospinal fluid. Anteriorly, the space of the internal cranial base is bounded by parts of the frontal, sphenoid, ethmoid bones.

Is skull base surgery endoscopic or minimally invasive? Endoscopic or minimally invasive skull base surgery. This type of surgery often doesn't need a large cut (incision). A surgeon may make a small opening (keyhole) inside the nose. The neurosurgeon can then remove a growth through a thin lighted tube called an endoscope.

What are the symptoms of a tumor at the base of the skull? Symptoms of Skull Base Tumors Blindness or blurred vision. Altered sense of taste and smell. Difficulty swallowing or speaking. Headaches.

What are the painful muscles at the base of the skull? Suboccipital muscle inflammation— The suboccipital muscles are a group of four neck muscles that run between the neck and skull. Their job is to help extend and rotate the head. Poor posture, like hunching over a desk, can lead to tension and pain in these muscles and irritate the base of the skull.

What is the recovery time for endoscopic skull base surgery? By three to four months, healing is usually complete and crusting diminishes. Additional follow up depends on the diagnosis, need for additional therapy, and symptoms.

What are the skull base approaches to tumors? Surgical approaches for skull base tumors include the following: modified orbitozygomatic, pterional, middle fossa, retrosigmoid, far lateral craniotomy, and midline suboccipital craniotomy.

What is the head position for endoscopy? In the initial period after its introduction, ERCP was performed with the patient in a left lateral position, but over time, the prone position has become the preferred position for most endoscopists performing this procedure.

What is the middle skull base? The middle cranial fossa, also known as the central skull base, is an intricate intracranial area that contains many structures susceptible to pathology, making it an area directly pertinent to neurosurgeons, neurologists, otolaryngologists, ophthalmologists, radiologists, and endocrinologists.

What part of the brain is at the base of the skull? The brain is divided into several parts, all protected by the skull. At the base of the skull is bone that supports 4 brain components—the frontal lobe, temporal lobe, brain stem, and cerebellum. The skull base offers support from the bottom of the brain.

What is the anatomy of the base of the skull bone? The cranial base is the most inferior part of the skull. It consists of the floor of the cranial cavity plus the inferior aspect of the viscerocranium, minus the mandible. Together with the cranial vault, which is the part of the skull that protects the brain, it contributes to the neurocranium.

How risky is skull base surgery? Potential complications of transtemporal skull base surgery vary according to your specific condition and the type of approach your

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surgical team applies to your case. Transtemporal skull base surgery carries a risk of damage to surrounding areas that can result in: Hearing loss. Facial nerve paralysis.

What anesthesia for endoscopic skull base surgery? General endotracheal anesthesia is required.

What type of condition would require surgery of the skull base? Common skull base disorders approached through the nose include pituitary tumors, sinus tumors, and orbital tumors (located near the eye). Many spinal fluid leaks (with fluid that drips out of the nose) can also often be repaired through the nostrils.

Are most skull base tumors benign? Most skull base tumors are benign (not cancerous) and don't spread to other parts of the body. But even benign ones, which grow slowly, can cause serious damage. What are the most common types? Pituitary adenomas are benign tumors that develop on the pituitary gland behind the eyes.

What are the two lumps at base of skull? Much like other lymph nodes located throughout the body, the occipital lymph nodes play an active role in the body's immune defense system.

Who treats skull base tumors? Our radiation oncologists are experts in the treatment of skull base tumors. They have pioneered the use of modern high-precision radiation therapy techniques that target radiation doses precisely to the shape of tumors. These treatments minimize side effects, damage to healthy tissue and long-term toxicity.

How to get rid of pain at the base of the skull?

What causes inflammation at the base of the skull? Skull base osteomyelitis is a serious disease with a high risk of complications including neuroinfection. Typically, the inflammation of the skull base results from infection from neighboring tissues. In case of malignant otitis externa, inflammation disseminates from the external auditory canal.

How to instantly relieve neck pain at the base of the skull?

What is the anatomy of the base of the skull bone? The cranial base is the most inferior part of the skull. It consists of the floor of the cranial cavity plus the inferior aspect of the viscerocranium, minus the mandible. Together with the cranial vault, which is the part of the skull that protects the brain, it contributes to the neurocranium.

What is the middle part of the base of the skull? The middle cranial fossa, also known as the central skull base, is an intricate intracranial area that contains many structures susceptible to pathology, making it an area directly pertinent to neurosurgeons, neurologists, otolaryngologists, ophthalmologists, radiologists, and endocrinologists.

What is the anatomical position base of the skull? The base of skull, also known as the cranial base or the cranial floor, is the most inferior area of the skull. It is composed of the endocranium and the lower parts of the calvaria. Base of the skull, exterior or outer surface. Showing various muscle attachments.

What does the base of the skull consist of? Finally, the skull base allows the passage of various neurovascular structures. It is composed of the sphenoid and ethmoid bones (which have their associated air sinuses) and parts of the frontal, temporal, and occipital bones.

Who played the drum on Motörhead Overkill? Credit to @thelegendsofmusicTV Motorhead playing "Overkill" Live in Düsseldorf, Germany in 2005 "Overkill" was born out of drummer Phil Taylor's experimentation with the double bass drum back in 1978.

Does Motörhead still exist? Motörhead disbanded upon Lemmy's death on 28 December 2015.

What BPM is overkill by Motörhead? Overkill is a very emotional song by Motörhead with a tempo of 119 BPM. It can also be used half-time at 60 BPM or double-time at 238 BPM.

Is Motörhead considered heavy metal? Most often classified as heavy metal, Motörhead has been credited with being part of and influencing numerous musical scenes, thrash metal and speed metal especially. Lemmy, however, always insisted

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that they were a rock and roll band.

Who was the original drummer for Motörhead? Taylor, from Chesterfield, played on all of the group's major albums, including Overkill, Bomber, Ace of Spades and live recording No Sleep 'Til Hammersmith. He replaced Motörhead's first drummer, Lucas Fox, during the making of their first recording, On Parole, in 1975.

Who is the lead singer for Motörhead? Ian Fraser Kilmister (24 December 1945 – 28 December 2015), better known as Lemmy Kilmister or simply Lemmy, was a British musician. He was the founder, lead singer, bassist and primary songwriter of the rock band Motörhead, of which he was the only continuous member, and a member of Hawkwind from 1971 to 1975.

What were Lemmy's last words? He was riddled with cancer at the end, but mind you, he turned round to me and said 'I'm probably going to die, I suppose. Never thought I'd make 70, so I did good'. "His exact words were, 'I could have lived a lot longer and taken care of myself, but I lived my life the way I want to live and I ain't got no regrets'.

How rich was Lemmy? At the time, the estate of the Motorhead frontman was estimated to be worth north of \$8 million. However, records newly released by a London probate office suggest that Lemmy was only worth around \$646,000 at the time of his death. Lemmy lived a rich life doing what he loved.

Did Lemmy have a wife? Kilmister never married, preferring a solitary life on the road. "This is how I live, you know?" he told Rolling Stone in 2009. "It's what I'm supposed to do." He is survived by a son, Paul Inder.

How many studio albums does Motörhead have?

How many BPM is killed by death Motörhead? Killed by Death is a moody song by Motörhead with a tempo of 135 BPM. It can also be used half-time at 68 BPM or double-time at 270 BPM. The track runs 4 minutes and 39 seconds long with a F#/G? key and a minor mode.

What BPM is Crybaby? "Cry Baby" runs for three minutes and fifty-nine seconds. The alt-pop song opens the album, creating a "spooky" atmosphere with minimalist electronic sounds and whispered lyrics. The song is positioned in the key of F minor

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and runs at a tempo of 95 BPM.

Was Motörhead the loudest band? 1986. An article by Scott Cohen appeared in February 1986 issue of Spin entitled "Motörhead is the Loudest Band on Earth". In it, Cohen alluded to an undated concert during which Cleveland's Variety Theater actually sustained damage from Motörhead reaching a decibel level of 130.

What bands were influenced by Motörhead? Metallica had such a huge Motörhead influence on Kill 'Em All, and other bands, like Kreator, took that influence from Metallica." For Sodom bassist/vocalist Tom Angelripper, Motörhead had a profound effect on his life. "If there had been no Lemmy Kilmister," he says, "there'd have been no Tom Angelripper.

How did Lemmy get his nickname? There is no official origin of the name Lemmy. It was the nickname of Motörhead's singer Ian Fraser Kilmister.

Why is the band called Motörhead? Realizing that this would preclude them from commercial acceptance, he eventually settled on Motörhead, after a song he had written for Hawkwind. His stated aim was for the outfit to be "the dirtiest rock n' roll band in the world". The name Motörhead was derived from a slang term for an amphetamine user.

Who was the best Motörhead guitarist? As the lead guitarist of Motörhead from 1984 until the band's end in 2015, Phil Campbell has been one of the most influential guitar players in all of Hard Rock and Heavy Metal. His influence on the genre and its players over the last 40 years is both undeniable and indelible.

Why did Eddie Clarke leave Motörhead? Clarke left Motörhead in 1982, whilst on tour of the United States. Becoming unhappy at the results of the Iron Fist album, the recording sessions with the Plasmatics were the final straw.

Who inherited Lemmy's estate? He lived in a rental apartment in West Hollywood for more than two decades up until the time of his death. Lemmy's son Paul Inder is believed to be the beneficiary of his estate, which includes any royalties earned after his death. It is believed that Lemmy also had another son who was adopted.

Why did Phil Taylor leave Motörhead? He said "I always regretted leaving. Let's just say I took a three-year holiday." He continued playing in the group until 1992.

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After having been warned three times in the previous two years "to get his act together", he was fired after recording "I Ain't No Nice Guy", because of his poor performance.

What is the meaning of Motörhead? Noun. motorhead (plural motorheads) (US, Canada, slang) A car, truck, or motorcycle enthusiast.

How many people did Lemmy sleep with? Lemmy shunned relationships almost completely. He claimed to have slept with between 1,000 and 2,000 women, and one in the late '60s, named Tracey, angered Lemmy by informing him she was pregnant, causing him to storm off.

Did Lemmy and Ozzy get along? Elsewhere in the discussion, Osbourne confirms that he had always had a light-hearted relationship with Lemmy, and confirms that the musician considered his 1991 solo album, No More Tears to be some of his favourite work. "I think about Lemmy all the fucking time.

What is Lemmy's accent? No Pirate, as that cliché is West Country - Somerset, Devon, Cornwall and add to that mix Bristol too. Lemmy had a West Midlands accent. Mostly Stoke-on-Trent. As his biography says, It's where he spent the first 10 years of his life before moving to Benllech, Anglesey in North Wales.

Was Lemmy a heavy drinker? After 40 years of drinking a half-gallon of Jack Daniels daily, he switched to vodka and orange juice and had no more than five daily drinks. He still took speed every day. While little is published about his mental health throughout his life, towards the end, he lived with depression.

What kind of car did Lemmy drive? Allegedly owned by Lemmy Kilmister of Motörhead, this Packard-Bentley is known as "Mavis," and it's suitably antisocial to be owned by that distinguished gentleman. However, it is Chris Williams who should get credit for the construction of Mavis.

Was Lemmy a loner? He had always been a loner. At this time of his life though did he ever think he might prefer to have someone share his bed on a more permanent basis?

How to calculate cooling load for air conditioning?

How to calculate air conditioner cooling capacity? To calculate the size, simply multiply the length times the width of the room or area to be cooled. Then, as a practical number, multiply that total times 25 BTU. This allows ample cooling, whether it is a rainy, moist day or a hot, sunny, humid day.

How do you calculate air cooler load?

Why is cooling load calculation important in air conditioning system? Energy Efficiency: An accurate cooling load calculation ensures the HVAC system operates with minimal energy wastage. System Sizing: It prevents the installation of undersized (leading to an insufficient cooling process) or oversized (leading to cost inefficiencies) HVAC systems.

What is the thumb rule for AC load calculation? The thumb rule for air conditioning sizing is mostly used when there's a temporary cooling requirement because they are quick and easy. The thumb rule uses 500 square feet per ton to calculate the size of the air conditioning system.

What is the formula for HVAC load calculation? Calculate the HVAC load (House surface in square feet) x (height of the ceiling) (Number of occupants) x 100 BTU. (Number of exterior doors) x 1,000 BTU. (Number of windows) x 1,000 BTU.

How do you calculate AC design? The quick and easy way to estimate AC size is to use a rule of thumb based on square footage. Most HVAC professionals recommend about 20 BTUs per square foot of living space.

How do I determine what size air conditioner I need? Calculate cooling capacity: You can use a rule of thumb that suggests around 20 BTUs per square foot of space to get an idea of how much cooling capacity you need. Multiply the room's square footage by 20 to get a basic estimate of the required cooling capacity.

How many ton AC do I need for 1500 sq ft? The recommended capacity for a home that is 1,201 to 1,500 square feet is 2.5 tons. For a home 1,501 to 1,800, the recommended capacity is 3 tons. For a 2,000 square-foot home, the best AC capacity is 3.5 tons. Since larger homes are costlier to cool, you'll need a 5-ton unit to cool a 3,000 square-foot home.

How to calculate air cooler capacity? You can calculate the required CFM by dividing the cubic feet of your room by two. For example, if your room is 300 sq feet in size, with the ceiling at a height of 10 feet. Then the CFM required would be 1,500 (300 sq ft x 10 ft/2). The airflow of an air cooler also depends on whether it uses a blower or a fan.

What is the difference between cooling load and cooling capacity? If you're new to the HVAC system, it's easy to get confused between the two. Load means the amount of heating or cooling required by a building. Capacity refers to the amount of heating or cooling an HVAC system can offer.

How do you calculate CFM for cooling loads?

How to do cooling load calculation?

How is AC cooling capacity calculated? To estimate your AC tonnage needs, multiply the number of square feet you're cooling times 25. This equals the total number of BTUs you need to adequately cool your space. Next, divide that number by 12,000 to determine the tonnage capability you need in your new air conditioning unit.

What is the formula for total cooling capacity? Using the energy equation of $Q = \dot{m} \times C_p \times \Delta T$ we can calculate the cooling capacity. We add 273.15K to the celcius to convert it to units of Kelvin. The Specific heat capacity (C_p) is measured in units of kJ per kg per Kelvin. This gives us a final answer of $Q = 2,500\text{kW}$ of cooling.

How many CFM per square foot for cooling? One cfm is needed per square foot (1 cfm/sq ft) of floor area. This is the average air quantity required for a room or an entire building. This number is based upon an averaged heat load calculation for comfort cooling.

How do you calculate the load of an air conditioner? Many designers use a simple square foot method for sizing the air-conditioners. The most common rule of thumb is to use "1 ton for every 500 square feet of floor area". Such a method is useful in preliminary estimation of the equipment size.

What is the rule of thumb for cooling loads? Cooling Loads If a designer provides the desired cooling load in kilowatts, a quick crosscheck can be performed using the rule of thumb that suggests a maximum of 20 kilowatts per cubic meter of air. Any value surpassing this threshold will likely necessitate an increase in air volume.

How to do a load calculation? You have to isolate the power point or circuit that you want to measure. Take the breaker's size and multiply it by the rated voltage. For example, if you have a 20 amp breaker operating at 120 volts, it will have a maximum load of 2400 watts (20 amps x 120 volts).

How many BTU per ton of cooling? The size (cooling capacity) of your air conditioner is measured in BTU (British thermal unit) and tons (12,000 BTU = 1 ton).

How many BTU is 5 ton?

What is the rule of thumb for air conditioning calculations? A good rule of thumb to follow is that you'll need approximately 20 BTU for every square foot of floor area. However, there are also other considerations to take into account before calculating the capacity, including the height of your ceiling as well as how many windows and doors are in a specific room.

How is HVAC design calculated? To calculate the estimated HVAC load for a house with 2,500 square feet, 12 windows, and 3 exterior doors occupied by 4 people, simply plug it into this formula: $2,500 \times 25 = 62,500$ base BTU. $4 \text{ people} \times 400 = 1,600$. $12 \text{ windows} \times 1,000 = 12,000$.

How do I calculate what size AC unit I need? In the case of air conditioning, it's the amount of heat it needs to remove. So, the higher the BTU of a unit is, the more powerful it is. To match the air conditioner's size to the room's size, multiply the area's square footage by 25, which will give you the required BTU.

How many sq ft will a 3 ton AC cool? What is a 3 Ton AC Unit? A 3 Ton AC unit is a type of air conditioner system that has the ability to cool up to approximately 1,500 to 2,500 square feet of living space, although there are many other factors that contribute to determine the size/tonnage of your AC needs.

How many square feet will a 2 ton AC cool?

How to calculate HVAC tonnage? Simply divide the BTUs by 12,000 to calculate the tonnage of your unit. For example, if your air conditioner is 36,000 BTUs, you have a 3-ton unit. Some manufacturers bury tonnage or BTU information in their model numbers. Look for an even, two-digit number between 18 and 60.

How to calculate the load of an AC? Let us now calculate the AC power consumption using an example. For example, there is a branded 1.5 kW AC that runs 8 hours per day. As a result, the total power consumption of that air conditioner will be $1.5 \times 8 \times 30 = 360$ units per month.

How many BTU per person for cooling load? When calculating the cooling load for a particular space, managers can use a rough estimate of 600 Btu per person. So a quick estimate for a 400-square-foot office with minimal occupancy is about 12,000 Btu, or 1 ton of cooling.

How do you calculate CFM for cooling loads?

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What is the rule of thumb for CFM per square foot? One cfm is needed per square foot (1 cfm/sq ft) of floor area. This is the average air quantity required for a room or an entire building.

How do I calculate how much ton AC I need? As a general rule of thumb, you'll need 1 ton of cooling capacity for every 400-600 square feet of a bedroom. A 1.5-ton AC unit is suitable for a bedroom that is up to 900 square feet, while a 2-ton AC is appropriate for a room that is up to 1200 square feet.

What is the cooling capacity in AC? 'Cooling capacity' is the measure of an air conditioning system's ability to remove heat from a room, thus making the room 'cooler'. The reverse of this gives you 'heating capacity' (i.e. an air conditioner's ability to remove heat from outside and transferring this into the room).

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How many BTU needed to cool 1,000 square feet?

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How many CFM do I need for cooling tonnage? 1 ton of cooling is equal to 400 cubic feet of air per minute. 2 ton of cooling is 800 cfm and so on. So a 4 ton unit will have 1600 cubic feet of air passing through the system every minute.

How many CFM for 1000 sq ft? It is considered that 135 CFM is needed per square foot of space. So 135 CFM would be required for a 100-square-foot area. A room of 1,000 square feet would require 135 CFM.

How many sq ft will a 3 ton AC cool? What is a 3 Ton AC Unit? A 3 Ton AC unit is a type of air conditioner system that has the ability to cool up to approximately 1,500 to 2,500 square feet of living space, although there are many other factors that contribute to determine the size/tonnage of your AC needs.

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Is a 3 ton AC too big for 1500 square feet? While a local HVAC professional can help you with this, the general rule of thumb is that one ton of AC capacity will cool approximately 500 square feet. So if your home is 1,500 square feet, a two to three-ton unit would be best.

What is the most common problem with PT Cruiser?

Why is my PT Cruiser power window not working? The most common reasons a Chrysler PT Cruiser window won't go up or down are window's electrical system such as a fuse or relay, a broken window motor, or a broken window regulator.

What does PT mean in Chrysler? In its nameplate, PT stands for "Personal Transport" or "Personal Transportation". PT was the PT Cruiser's product code for the Mexican-made units.

What is ASD relay PT Cruiser? The automatic shutdown (ASD) relay powers the ignition coils, fuel injectors, and alternator field in many Chrysler vehicles. If this part fails, the engine can stall, fail to crank, or lag while accelerating. The ASD relay is in the junction box under the hood.

Is it worth fixing a PT Cruiser? The average annual repair cost is \$641 which means it has average ownership costs. The severity of repairs is average and the frequency of those issues is low, so major repairs are uncommon for the PT Cruiser.

How many miles does a PT Cruiser usually last? PT Cruiser drivers typically report a minimum lifespan of 200,000 miles, with maximum lifespans extending well past 250,000 miles. But, you're unlikely to see 300,000 on the odometer in a used model, as you can't vouch for the previous owner's maintenance habits. Expect to reach 250,000 on the original powertrain.

How do I know if my power window fuse is blown? If the fuse is blown, pushing a window button will do nothing at all: The motor won't groan and the glass won't quiver. If the fuse is good and you can hear the motor, or the glass acts like it wants to move, then you've got some sort of mechanical problem.

How do you get a power window up manually?

How do I reset my power window motor?

What is a Chrysler PT Cruiser worth? Prices for a used Chrysler PT Cruiser currently range from \$2,277 to \$99,888, with vehicle mileage ranging from 22,941 to 261,036. Find used Chrysler PT Cruiser inventory at a TrueCar Certified Dealership

near you by entering your zip code and seeing the best matches in your area.

Why were PT Cruisers discontinued? “The only people who were really buying it for much of the last decade were the rental car companies because it was cheap.” But after government intervention in Detroit drove up the price, the rental companies backed off. Then, in 2010, Chrysler discontinued the PT Cruiser line altogether.

Why was the PT Cruiser so popular? This was supposed to be a car for young people. Instead, the PT Cruiser was embraced by Boomers, who connected to the retro styling and liked its familial practicality. This sold a lot of cars — Boomers have money! — but it marked the vehicle as a parental unit shifter.

How do I know if my ASD relay is bad? Common signs include the car starting but stalling immediately, the Check Engine Light turning on, and the engine not cranking when turning the key.

What is PT fuse failure relay? 1. Introduction & Application. The relay FF1, three phase fuse failure relay, is used for monitoring the fuse continuously against blowing out or rupturing and inadvertent removals of the potential transformer secondary fuses. It is suitable for 3 phase, 3 wire or 3 phase, 4 wire application.

How do I know if my starter relay is blown?

What is the life of a PT Cruiser? What is Chrysler Pt Cruiser lifespan? The estimated lifespan of a Chrysler Pt Cruiser is 179,000mi, before reaching the life expectancy upper limit. Fuel type is a major factor when looking into a vehicles lifespan/life expectancy.

Do PT Cruisers have transmission problems? Common Chrysler PT Cruiser Transmission Problems Hard Shifting & Slipping: Two of the most common A604 transmission problems are slipping between the gears, or particularly hard shifts. There are a number of OE design flaws that cause these problems to occur.

Why do PT Cruisers overheat? The most common reasons a Chrysler PT Cruiser is overheating are a coolant leak (water pump, radiator, hose etc.), the radiator fan, or a failed thermostat. Coolant leak (water pump, radiator, hose etc.)

How many miles per gallon does a PT Cruiser have?

What are the pros and cons of a PT Cruiser? The Chrysler PT Cruiser is reliable, cheap to maintain, and priced to move. Steering is really wide for such a small SUV, crash test scores are mediocre, fuel economy is poor, seating is uncomfortable, and cargo space is limited, despite the fold-flat back seats.

What are common problems with a 2006 PT Cruiser?

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