CT AND MRI OF THE ABDOMEN AND PELVIS A TEACHING FILE RADIOLOGY TEACHING FILE

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What is the difference between a pelvic MRI and an abdominal MRI? A pelvic MRI can be used to help visualize and stage cervical, uterine, bladder, rectal, prostate, and testicular cancers, as well as diagnose pelvic abscesses. An abdominal MRI can detect and monitor cancers in abdominal organs, the adrenal glands, liver, gallbladder, pancreas, kidneys, ureters, and intestines.

What is a CT scan of the pelvis and abdomen with contrast? CT of the abdomen and pelvis is a special type of imaging performed with intravenous contrast material after the ingestion of oral barium. Images are generated and can be viewed on a computer monitor and burned on a CD. The weight limit for most scanners is 350 pounds.

What is the procedure code for CT abdomen and pelvis with IV and oral contrast? Report 74176 when both studies (abdomen and pelvis) are performed without contrast. Apply 74177 if both studies are performed with contrast.

What is the difference between a CT scan and an MRI of the pelvis? MRI (along with ultrasound) provides the frontline diagnostic evaluation for pelvic soft tissue disease including the gynecological, prostate, ureters, and bladder. CT should not be considered as a frontline test for most cases of pelvic soft tissue disease imaging.

Which is better for abdomen, CT or MRI? Magnetic resonance imaging produces clearer images compared to a CT scan. In instances when doctors need a view of soft tissues, an MRI is a better option than x-rays or CTs. MRIs can create better

pictures of organs and soft tissues, such as torn ligaments and herniated discs, compared to CT images.

What is the difference between a CT scan and an MRI? CT scans take a fast series of X-ray pictures, which are put together to create images of the area that was scanned. An MRI uses strong magnetic fields to take pictures of the inside of the body. CT scans are usually the first choice for imaging. MRIs are useful for certain diseases that a CT scan cannot detect.

Why would a doctor order a CT scan of the abdomen and pelvis? There are many indications for a CT of your abdomen and pelvis. Your doctor may ask for this test when looking for kidney stones, other causes of abdominal pain or nausea / vomiting (including appendicitis and diverticulitis), and assessing a wide variety of cancers involving organs in your abdomen or pelvis.

How long does a CT scan of abdomen and pelvis with and without contrast take? Depending on the reason for your test, the procedure can take anywhere from 10 to 30 minutes, and you will get the results of the exam from your doctor.

How to prepare for a CT scan of abdomen and pelvis with contrast? For four hours prior to your exam, please do not eat solid foods. You may drink fluids such as water, juice, or black decaffeinated coffee or tea. Some CT scan exams, particularly abdominal CT scans, may require that you drink water or an oral contrast so we may better visualize structures within the abdominal area.

What cancers can an abdominal CT scan detect? The abdominal CT scan may show some cancers, including: Cancer of the renal pelvis or ureter. Colon cancer. Hepatocellular carcinoma.

What organs does a pelvic CT scan show? Structures inside and near the pelvis include the bladder, prostate and other male reproductive organs, female reproductive organs, lymph nodes, small intestine, colon, and pelvic bones. Single CT images are called slices. The images are stored on a computer, viewed on a monitor, or printed on film.

Why would a doctor order a CT with and without contrast? CONTRAST MEDIA: CT scans are most frequently done with and without a contrast media. The contrast

media improves the radiologist's ability to view the images of the inside of the body. Some patients should not have an iodine-based contrast media.

What is MRI abdomen and pelvis? MR imaging of the abdomen and pelvis is performed to evaluate: organs of the abdomen, such as the liver, biliary tract, kidneys, spleen, bowel, pancreas, and adrenal glands. organs of the pelvis, such as the bladder and the reproductive organs such as the uterus and ovaries in females and the prostate gland in males.

Why is MRI of pelvis needed? An MRI of the pelvis can help find problems such as tumours in the ovaries, uterus, prostate, rectum, and anus. It also can be used to look for an anal fistula (a tube-shaped passage from the anal canal to a hole in the skin near the anus) and look for the cause of pelvic pain in women, such as endometriosis.

Why would a doctor order a CT scan instead of an MRI? A CT scan may be recommended if a patient can't have an MRI. People with metal implants, pacemakers or other implanted devices shouldn't have an MRI due to the powerful magnet inside the machine. CT scans create images of bones and soft tissues.

Can you see bowels on pelvic MRI? Structures inside and near the pelvis include the bladder, prostate and other male reproductive organs, female reproductive organs, lymph nodes, large bowel, small bowel, and pelvic bones. An MRI does not use radiation. Single MRI images are called slices.

What is the difference between the abdomen and pelvis? The pelvic cavity is a bowl-like structure that sits below the abdominal cavity. The true pelvis, or lesser pelvis, lies below the pelvic brim (Figure 1). This landmark begins at the level of the sacral promontory posteriorly and the pubic symphysis anteriorly.

Why would a doctor order a pelvic MRI? An MRI of the pelvis can help find problems such as tumours in the ovaries, uterus, prostate, rectum, and anus. It also can be used to look for an anal fistula (a tube-shaped passage from the anal canal to a hole in the skin near the anus) and look for the cause of pelvic pain in women, such as endometriosis.

What does an abdominal MRI cover? What is it? MRI (magnetic resonance imaging) is a test that uses a magnetic field and pulses of radio wave energy to make pictures of the organs and structures inside the body. An MRI of the abdomen (belly) can give your doctor information about your liver, pancreas, and kidneys and other structures in the belly.

What is Chapter 1 Of Mice and Men about? In Chapter 1, the reader learns that George and Lennie are migrant laborers who travel together. Lennie has an intellectual disability and George looks after him. Though George cares about Lennie, he is frustrated by the fact that Lennie keeps getting them fired from their jobs.

What is the central idea of the chapter 1 Of Mice and Men?

What is the importance of the mouse in Chapter 1? Mice are a symbol of false hope, mostly for Lennie. They're bound to be important (they're in the title, after all), and there are several mice images throughout the novel that support their importance. The first is of a dead mouse that Lennie keeps in his pocket to pet. It's a comfort thing.

What are some questions to ask about Of Mice and Men Chapter 2?

What is Lennie's disability? Of Mice and Men is a story about an intellectually disabled man. Lennie's disability is central to the plot; if he were not intellectually disabled, the story would simply not work. It has also been suggested (Loftis, 2015, 2016) that Lennie exhibits characteristics of autism.

Why did George shoot Lennie? Answer and Explanation: The reason George shoots Lennie at the end of Of Mice and Men is because Lennie killed Curley's wife. If George did not shoot Lennie, the large man would either be shot in the stomach by Curley, a slow and painful death, or locked up in an institution.

What was Lennie hiding in Chapter 1? Lennie interrupts him to ask where they are going. His companion impatiently reminds him of their movements over the past few days, and then notices that Lennie is holding a dead mouse. George takes it away from him.

How is George mean to Lennie in chapter 1? Tired of constantly reminding Lennie of things he should remember, George gets quickly angry when Lennie forgets to get the firewood, for example, and instead goes after the dead mouse. On the other hand, George's anger is quickly under control, and he blames himself for scolding Lennie.

What is the point of view in Chapter 1 Of Mice and Men? Of Mice and Men is told from an omniscient third-person point of view, meaning the narrator has full knowledge of all situations and characters.

What is the significance of Chapter 1? The first chapter is the most important because it must serve two functions and do them both quickly: set the stage for the story (and often, the world), and engage the reader's attention. If it fails, the reader is not going to make it to the second chapter.

What memorable lines from Of Mice and Men chapter 1?

How does Lennie act like an animal in Chapter 1? In Chapter One, Lennie is described through animalistic characteristics, "His [George's] huge companion dropped his blankets and flung himself down and drank from the surface of the green pool; drank with long gulps, snorting into the water like a horse.

What is the main conflict in Of Mice and Men Chapter 2? What was the conflict in chapter 2 of Of Mice and Men? The conflict mainly occurs when George and Lennie meet Curley, the boss's son. Curley doesn't like Lennie for being so big. Curley is also recently married, and his wife is flirtatious, which could also lead to trouble.

What does Lennie want in Chapter 2? Lennie wants George to ask Slim for a puppy so that he can pet it, hopefully without killing it accidentally. Curley comes back looking for his wife, and George tells him she was there but left.

Why does Lennie carry mice? Lennie has the dead mouse because it is soft, and he likes to pet soft things. The mouse was originally alive, but it bit him, so he killed it. However, he refuses to accept the mouse is gone, so he keeps it in his pocket. George takes it away because it will start to decompose.

What were Lennie's last words? Lennie's last words are about the farm that he dreams of owning with George Milton: 'Le's do it now. Le's get that place now. '

Was Lennie a real person? In a 1937 interview with The New York Times, John Steinbeck said he had based Lennie on a man who had killed a ranch foreman but was shown leniency. "Lennie was a real person," Mr. Steinbeck said. "He's in an insane asylum in California right now."

Is Of Mice and Men a true story? The main characters, George Milton and Lennie Small, do not get the ending the reader anticipates. Set in California during the Great Depression, this novella paints very real circumstances for realism, but these characters are not real people and the events in the story are not true, making it a fictional piece.

Why is Lennie so obsessed with rabbits? Lennie is also associated with rabbits, which are part of his dream (he will get to tend them on the farm) and because they are soft things he likes to pet.

Who is to blame for Lennie's death? George is one of the most culpable as he was partly responsible for taking care of Lennie and was the person who kills Lennie.

Why was mice of men banned? It has been banned because of vulgarity, racism, and its treatment of women. The challenges don't seem to go away as time goes on; even in the twenty-first century, the book is still being challenged. Steinbeck was interested in writing a book that was historically accurate and reflected the times.

Why did Aunt Clara stop giving Lennie mice? Aunt Clara used to give Lennie mice to pet. Lennie loved the mice because they were soft. However, Aunt Clara had to stop giving them to him because he would accidentally kill them from petting them too hard.

What does Lennie see before he dies? Lennie gets to the river and begins to have hallucinations: first of his aunt telling him that George would be better off without him; and then of a giant rabbit telling him that George is going to beat him out of anger and never let him tend to rabbits at their farm.

Why did Lennie go to jail? To guys George and Lennie work a farm to get the money to buy a house, but Lennie gets into trouble when he accidentally kills curley's wife.

What did George tell Lennie before he killed him? He tells Lennie about the rabbits, and promises that nobody will ever be mean to him again. "Le's do it now," Lennie says. "Le's get that place now." George agrees. He raises Carlson's gun, which he has removed from his jacket, and shoots Lennie in the back of the head.

Who is the only one who really understands what George did? 2. Who is the only one who really understands what George did? When the men arrived, Slim was the only one who could sympathize with George. Because of their earlier conversation, he understood the relationship between George and Lennie.

What did Lennie forget in chapter 1? What did Lennie forget in chapter one? Why he and George had to run from their last job.

What is the point of view in Chapter 1 Of Mice and Men? Of Mice and Men is told from an omniscient third-person point of view, meaning the narrator has full knowledge of all situations and characters.

What was Lennie hiding in Chapter 1? Lennie interrupts him to ask where they are going. His companion impatiently reminds him of their movements over the past few days, and then notices that Lennie is holding a dead mouse. George takes it away from him.

How is George described in Of Mice and Men Chapter 1? George is described as being 'small and quick, dark of face, with restless eyes and sharp, strong features'.

What story does George tells Lennie in Chapter 1? What story does George tell Lennie in Chapter 1? George tells Lennie the story of their future: that one day they will have money, live off the fat of the land, and Lennie will have a hutch of rabbits.

Why is Lennie so obsessed with rabbits? Lennie is also associated with rabbits, which are part of his dream (he will get to tend them on the farm) and because they are soft things he likes to pet.

What memorable lines from Of Mice and Men chapter 1?

Why is George upset with Lennie? In Of Mice and Men, George is constantly upset with Lennie because of Lennie's impact on his life. First, he complains that Lennie forgets everything, so George has to spend his days repeating information to Lennie that Lennie will only forget. Then, George complains that Lennie always wants "what we ain't got.

What events happened in chapter 1 Of Mice and Men? The story begins with George Milton and Lennie Small traveling together along the Salinas River in California to find work. They have work cards indicating that there are jobs available at a nearby ranch, but they decide to stop and sleep in the woods for the evening.

What does Lennie see before he dies? Lennie gets to the river and begins to have hallucinations: first of his aunt telling him that George would be better off without him; and then of a giant rabbit telling him that George is going to beat him out of anger and never let him tend to rabbits at their farm.

Why did Lennie go to jail? To guys George and Lennie work a farm to get the money to buy a house, but Lennie gets into trouble when he accidentally kills curley's wife.

What two animals is Lennie compared to in chapter 1? He is not only described as a horse but also as a bear, dog, and sheep. Steinbeck is not only showing Lennie's learning disability with the descriptions but that he acts more on instinct than through reasoning. His actions ultimately lead to his downfall at the end of the novel.

Why did Aunt Clara stop giving Lennie mice? Aunt Clara used to give Lennie mice to pet. Lennie loved the mice because they were soft. However, Aunt Clara had to stop giving them to him because he would accidentally kill them from petting them too hard.

What did Lennie forget in chapter 1? What did Lennie forget in chapter one? Why he and George had to run from their last job.

What is the setting Of Mice and Men chapter 1? When the story opens, for example, the setting is a few miles south of Soledad, California, near the Salinas River. "Soledad" is a Spanish word that translates into "loneliness" or "solitude," a reference to one of the novel's main themes.

What did George tell Lennie before he killed him? He tells Lennie about the rabbits, and promises that nobody will ever be mean to him again. "Le's do it now," Lennie says. "Le's get that place now." George agrees. He raises Carlson's gun, which he has removed from his jacket, and shoots Lennie in the back of the head.

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Why do astronomers build observatories in remote areas far away from cities? Light from populated areas can be a problem for telescopes; the glow interferes with the light coming from space. It's better to place a telescope far away from cities or other major sources of light.

What kind of telescope would you expect to find in most observatories? Refracting telescopes, because lenses are the best for bringing all colors of light to the same focal point b.

How do astronomers use observatories? An astronomical observatory is a place or building used for observing events in space. An observatory can contain just one telescope, but some have more than twenty telescopes. Astronomers use observatories to collect light from natural objects in space.

What are the drawbacks to space based observatories? Disadvantages. There are some limitations with the Hubble Space Telescope when imaging the Moon due to its sensitivity to light and it cannot image areas in the direction of the Sun. They are exceptionally expensive to build and position in place. Maintenance is difficult.

Why are large observatories built in remote locations up high mountains? The lack of environmental light in a less-inhabited area makes it possible to see vastly more heavenly objects in the night sky. This is partly why most observatories with CT AND MRI OF THE ABDOMEN AND PELVIS A TEACHING FILE RADIOLOGY TEACHING FILE

optical telescopes are located out in the country, usually on top of a mountain.

What is the best location for an observatory? The ideal locations for modern observatories are sites that have dark skies, a large percentage of clear nights per year, dry air, and are at high elevations. At high elevations, the Earth's atmosphere is thinner, thereby minimizing the effects of atmospheric turbulence and resulting in better astronomical "seeing".

What is the most powerful observatory telescope? The Webb Space Telescope is the largest, most powerful and most complex telescope ever launched into space. It's design and development history stretches back before the Hubble Space Telescope was launched. Learn about the design, the major components and subsystems of Webb and see Webb in 3d in a 3d Solar System.

Can you look through a telescope at an observatory? For an experience of a lifetime, view celestial objects through our historic 60-inch or 100-inch telescopes. These are the largest telescopes in the world that are available for public use.

How to make a home observatory?

Are observatories still used today? Many modern telescopes and observatories are located in space to observe astronomical objects in wavelengths of the electromagnetic spectrum that cannot penetrate the Earth's atmosphere (such as ultraviolet radiation, X-rays, and gamma rays) and are thus impossible to observe using ground-based telescopes.

What do observatories look like? Optical Observatories Observatories that hold powerful optical telescopes are often in the shape of a dome. The dome opens partway when the telescope is in use. When the telescope is not in use, the dome is closed to protect the instrument from the weather.

Why do astronomers build their telescopes far away from cities? To avoid radio frequency interference (also called RFI) and atmospheric absorption, radio telescopes are usually built far from cities, towns, and technology.. That way, astronomers can study cosmic radio emissions that would otherwise be lost or swamped by noisy human-made signals.

Why are observatories built in remote locations as far from cities as possible? For optical telescopes, most ground-based observatories are located far from major centers of population, to avoid the effects of light pollution. The ideal locations for modern observatories are sites that have dark skies, a large percentage of clear nights per year, dry air, and are at high elevations.

What are some reasons that observatories are built on remote mountaintops? At high altitudes, there is less atmosphere to absorb infrared energy, which reveals details about some of the coldest objects in the universe, such as clouds of gas and dust and the disks of dust that give birth to planets. Mountaintops also have unobstructed views of the horizon in all directions.

Why are telescopes often placed in rural areas? The high level of light pollution in the urban sky makes it impossible to observe faint objects, but that doesn't mean you have to pack your astronomy equipment and go to the countryside, where the skies are much clearer and celestial objects appear brighter and more appealing.

What is the methodology of design science research? Design science research methodology (DSRM) refers to the research methodologies associated with this paradigm. It spans the methodologies of several research disciplines, for example information technology, which offers specific guidelines for evaluation and iteration within research projects.

What is the philosophy of science in research methodology? Philosophy of science can be viewed as a way of describing how research is conducted, and a way of deciding how it should be carried out. How do the real world, empirical data, models and theories relate to each other, and what can be done to improve their relationship?

What is the research philosophy of research methodology? A research philosophy and paradigm are a method or pattern for conducting research. It is a set of ideas, beliefs, or understandings within which theories and practices can function. Most paradigms derive from one of two research methodologies: positivism or Interpretation.

What is the methodology of science and technology? Methodology offers a perspective on technology that differs from a historical or sociological one. It focuses on the scientific, technological and social factors that are to be taken into account in technological developments. Other approaches tend to focus on actors other than factors.

How do you write a research methodology for a research design?

What are the three research design methodologies? The three common approaches to conducting research are quantitative, qualitative, and mixed methods. The researcher anticipates the type of data needed to respond to the research question.

What are the 4 philosophies of science?

What are the three types of philosophy of science? Philosophy of science focuses on metaphysical, epistemic and semantic aspects of scientific practice, and overlaps with metaphysics, ontology, logic, and epistemology, for example, when it explores the relationship between science and the concept of truth.

What is the difference between research design and research philosophy? 1-Research philosophy is an important part of the research methodology. Research philosophy is classified as ontology, epistemology and axiology. 2- Research design is defined as a framework of methods and techniques chosen by a researcher to combine various components of research.

What is the philosophy of methodology? Definition. The term "philosophical methodology" refers either to the methods used to philosophize or to the branch of metaphilosophy studying these methods. A method is a way of doing things, such as a set of actions or decisions, in order to achieve a certain goal, when used under the right conditions.

What is a research design in research methodology? Research design is a plan to answer your research question. A research method is a strategy used to implement that plan. Research design and methods are different but closely related, because good research design ensures that the data you obtain will help you answer your research question more effectively.

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What is the best philosophy for research?

What is the research methodology in science? The research methodology section in a scientific paper describes the different methodological choices made, such as the data collection and analysis methods, and why these choices were selected. The reasons should explain why the methods chosen are the most appropriate to answer the research question.

What are 4 types of science technology?

How do you write a science methodology?

What are the four types of research methodology? Some common types of research methodology include quantitative research, Qualitative Research Methodology, mixed-method research, experimental research, and case study research.

What is an example of a research methodology? Interviews (which can be unstructured, semi-structured or structured) Focus groups and group interviews. Surveys (online or physical surveys) Observations (watching and recording activities)

What is the difference between research method and research methodology? Research methodology is a systematic and theoretical approach to collect and evaluate data throughout the research process. Research method consists of all techniques, strategies, and tools employed by a researcher to complete the experiment and find solution to a research problem.

How to write a research methodology?

What is the difference between research design and methodology? For Durrheim (2004:29), research design is a strategic framework for action that serves as a bridge between research questions and the execution, or implementation of the research strategy. Schwardt (2007:195) defines research methodology as a theory of how an inquiry should proceed.

How to start a research design?

What is design research methodology? A design research methodology is an approach and a set of supporting methods and guidelines to be. used as a framework for doing design research, The Design Research Methodology by authors. Blessing and Chakrabarti called DRM has been chosen as the supporting framework for this research.

What is design based research methodology? Design-based research (DBR) is a type of research methodology used by researchers in the learning sciences, which is a sub-field of education. The basic process of DBR involves developing solutions (called "interventions") to problems. Then, the interventions are put to use to test how well they work.

What is the scientific method of research design? The process in the scientific method involves making conjectures (hypothetical explanations), deriving predictions from the hypotheses as logical consequences, and then carrying out experiments or empirical observations based on those predictions.

What is the methodological design of a research study? Methodological studies provide information on the design, conduct, analysis or reporting of primary and secondary research and can be used to appraise quality, quantity, completeness, accuracy and consistency of health research.

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