

# ELECTROMYOGRAPHY AND NEUROMUSCULAR DISORDERS CLINICAL ELECTROPHYSIOLOGIC CORR

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**How accurate is an EMG study?** The sensitivity of EMG for the diagnosis of radiculopathy ranges from 36% to 64% in patients with only pain,<sup>2,-4</sup> and 51%–86% in patients with an abnormal examination. Studies of specificity are limited. One study reports 54%–58% specificity for any EMG abnormality.

**What type of doctor performs electromyography?** The EMG is performed by a neurologist (a doctor who specializes in brain and nerve disorders), although a technologist may also perform some portions of the test.

**What is electromyography EMG used for?** Electromyography (EMG) is a diagnostic procedure to assess the health of muscles and the nerve cells that control them (motor neurons). EMG results can reveal nerve dysfunction, muscle dysfunction or problems with nerve-to-muscle signal transmission.

**How do I bill for EMG studies?** CPT code 95869 should be used to bill a limited EMG study of specific muscles. Examinations confined to distal muscles only, such as intrinsic foot or hand muscles, will be reimbursed as Code 95869 and not as 95860-95866. Use CPT Code 96869 to study thoracic paraspinal muscles between T3 and T11.

**How painful is an EMG nerve test?** These needles will stay in your muscles, and the duration of the examination for each muscle generally takes one to two minutes.

You may feel slight discomfort or pain when they insert the needles.

**What is the downside of EMG?** Managing Side Effects Side effects from EMG testing include soreness or bruising where the electrodes were inserted into the muscles. 3 These symptoms generally fade within a few days.

**What will an EMG rule out?** An EMG can be used to diagnose a wide variety of neuromuscular diseases, motor problems, nerve injuries, or degenerative conditions, such as: Amyotrophic lateral sclerosis (ALS) Carpal tunnel syndrome. Cervical spondylosis.

**Are EMG tests expensive?** Procedure Details On MDsave, the cost of an EMG/NCS - Electromyogram (two limbs) ranges from \$123 to \$523.

**Is EMG better than MRI?** While an MRI or X-ray of the spine can provide clues about its structure, EMG and NCS tests provide data about how the muscles and nerves function. The tests add valuable information to what your doctor already knows from your history, physical exam, and imaging scans.

**What happens if EMG is abnormal?** What happens if my EMG is abnormal? An abnormal EMG test result may indicate the presence of a muscle or nerve disorder. Your doctor may order additional tests, such as nerve conduction studies, blood tests, or imaging tests such as MRI or CT to help further determine the cause of the problem.

**What are the symptoms of poor nerve conduction?**

**What happens when EMG is positive?** An EMG examines how well your muscles and the nervous system's motor neurons are working together. What does a positive EMG mean? A positive EMG indicates that you do have a condition affecting your muscles or the nerves that control them. Your doctor will follow up to make a definitive diagnosis.

**How much is an EMG scan?** EMG test cost is usually around Rs. 3000.

**Who performs EMG studies?** Electromyography (EMG) is a form of electrodiagnostic testing that is used to study nerve and muscle function. It is commonly performed by a physiatrist or neurologist with special training for this

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procedure.

**Who can order an EMG?** An EMG and NCV is used to help detect neuromuscular abnormalities and is often ordered by your medical professional when one has unexplained pain, tingling or muscle weakness.

**Do they sedate you for an EMG?** Typically, this test is done without sedation because you have to be able to move your muscles voluntarily.

**Does a pinched nerve show up on an EMG?** The EMG test is the most accurate test used to properly diagnose pinched nerves.

**Are EMG results immediate?** Your doctor may review the results with you right after the procedure. However, if another healthcare provider ordered the EMG, then you may not know the results until you attend a follow-up appointment with your doctor. If your EMG shows any electrical activity in a resting muscle, then you may have a muscle disorder.

**What diseases does an EMG rule out?** Nerve and muscle disorders an EMG can diagnose Damage to nerves caused by diabetes, also called diabetic neuropathy. Herniated disc. Muscular dystrophy, a group of diseases that cause muscle weakness and muscle loss. Myasthenia gravis, a disease that causes weakness of muscles.

**Does an EMG show inflammation?** Electromyography shows how the nerves and muscles work together by measuring the electrical impulses along nerves, nerve roots, and muscular tissue. The results can help doctors distinguish inflammatory myopathies from other neuromuscular diseases, such as muscular dystrophy.

**What is the cost of an EMG test?** How Much Does an EMG/NCS - Electromyogram (one limb) Cost? On MDsave, the cost of an EMG/NCS - Electromyogram (one limb) ranges from \$78 to \$466. Those on high deductible health plans or without insurance can shop, compare prices and save.

**Can an EMG be done wrong?** It is feasible that an EMG needle may also injure a nerve by direct intraneural puncture during near nerve stimulation or if a nerve travels near or through the muscle of interest.

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**Can an EMG give false results?** The tests should be used to answer specific questions and to help arbitrate diagnostic dilemmas. The tests, however, have very definite limitations. There are significant false-negative rates, and unexpected positive results can be misleading.

**How reliable is electromyography?** The reliability of EMG data between testing sessions of isometric exercises has been shown to be highly reliable for quadriceps muscle activation, with a mean ICC of 0.99 and CV intra ranging from 5.30% to 7.29% (14,17) and moderately to highly reliable for the hamstrings, with ICC values ranging from 0.69 to 0.77 (11) ...

**What can throw off an EMG test?** Certain drugs that act on the nervous system (such as muscle relaxants) can interfere with electromyography results. You may need to stop taking these three to six days before the test. Have had bleeding problems or are taking blood thinning drugs, such as warfarin (Coumadin®) or heparin.

## **The Problem of Increasing Human Energy: With Special Reference to the Harnessing of the Sun's Energy**

The increasing demand for energy is a major challenge facing humanity. As the world's population grows and developing countries become more industrialized, the need for clean, sustainable energy sources becomes ever more pressing. One of the most promising renewable resources is solar energy, which has the potential to provide an abundant and affordable energy supply for centuries to come.

In the early 20th century, renowned inventor Nikola Tesla proposed a revolutionary idea for harnessing the sun's energy. Tesla envisioned a system of massive "solar towers" that would collect sunlight and convert it into electricity. He believed that such a system could provide the entire world with an unlimited source of clean energy.

### **Can solar energy meet the world's energy needs?**

Yes, solar energy has the potential to meet the world's energy needs many times over. The amount of sunlight striking the Earth in one hour is more than enough to power all of humanity's energy needs for over a year.

### **How efficient are solar panels?**

The efficiency of solar panels varies depending on the technology used. Modern monocrystalline and polycrystalline silicon solar panels have efficiencies of around 15-20%, meaning that they can convert 15-20% of the sunlight that strikes them into electricity.

### **What are the challenges to harnessing solar energy?**

One of the challenges to harnessing solar energy is its intermittent nature. Sunlight is only available during the day, and even then it can be obscured by clouds. This means that solar energy systems must be combined with other energy sources, such as batteries or grid-scale storage, to ensure a reliable supply of electricity.

### **What are the benefits of solar energy?**

Solar energy is a clean, sustainable, and affordable source of energy. It does not produce any greenhouse gases or other pollutants, and it is becoming increasingly cost-competitive with fossil fuels. Solar energy can also help to reduce our dependence on foreign oil and create jobs.

## **Solutions Upper Intermediate Test Answers**

### **Paragraph 1**

**Question 1:** What are the main themes explored in Solutions?

**Answer:** The main themes in Solutions include globalization, sustainability, innovation, and technology.

### **Paragraph 2**

**Question 2:** Describe the structure of a Solutions unit.

**Answer:** A Solutions unit typically includes a reading text, listening exercises, grammar review, vocabulary building exercises, and practice activities.

### **Paragraph 3**

**Question 3:** What are the different types of reading tasks in Solutions?

**Answer:** Solutions reading tasks include skimming for gist, scanning for specific information, finding main ideas, inferring meaning, and critical analysis.

#### **Paragraph 4**

**Question 4:** How does Solutions improve students' language skills?

**Answer:** Solutions develops students' reading, writing, listening, speaking, grammar, and vocabulary skills through authentic materials and interactive exercises.

#### **Paragraph 5**

**Question 5:** What are the benefits of using Solutions in an English language classroom?

**Answer:** Solutions fosters critical thinking, improves communication skills, promotes collaboration, and prepares students for real-world language use. Additionally, its flexible structure and variety of materials make it suitable for students with different learning styles and goals.

**What was the judgment in Hartog v Colin Shields?** Judgment. The judge found in Colin & Shields' favour on the grounds that the plaintiff must have realised the defendants' error, which, as it concerned a term of the contract, rendered the contract void.

**Why was the contract in Hartog v Colin and Shields 1939 void?** In Hartog the defendants mistakenly offered Argentine hare skins at price per pound, rather than per piece; it was held that as previous negotiations between the parties (as was customary) were based on price per piece, the mistaken offer did not represent the defendants' true intentions and was therefore void.

**What is the snap up doctrine?** In the snapping-up doctrine, the offeree is not allowed to accept an offer which he knows is mistaken as to its terms.

**What is mutual mistake in contract law?** A mutual mistake occurs when the parties to a contract are both mistaken about the same material fact within their

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contract. They are at cross purposes. There is a meeting of the minds, but the parties are mistaken.

**What is res extincta?** Res extincta: non-existence of the subject-matter of the contract. A mistake as to the existence of the subject matter of the contract renders it void.

**What is the snap rule?** The SNAP program implements Section 612 of the amended Clean Air Act of 1990, which requires EPA to evaluate substitutes for the ozone-depleting substances to reduce overall risk to human health and the environment.

**What is the physics behind snapping?** It turns out that when we snap, our fingers act like a spring-latch system. The compressibility of our fingers and the friction of our skin allows our fingers to store and then rapidly release elastic energy, just like a mousetrap.

**What is the snap approach?** The Support Needs Approach for Patients (SNAP) is a five-stage health care intervention which seeks to enable person-centred care for patients with progressive conditions.

**What is the Scrivener's law?** Doctrine of "scrivener's error" The doctrine of a "scrivener's error" is the legal principle that a map-drafting or typographical error in a written contract may be corrected by oral evidence if the evidence is clear, convincing, and precise.

**What are the three types of mistakes in law?** Mistakes in contract law fall within three main categories: mutual mistakes, common mistakes, and unilateral mistakes. These three types of mistakes will be discussed in more detail along with specific examples of each mistake.

**What is meant by quasi contract?** A quasi contract is a legal obligation—not a traditional contract—which is decided by a judge for one party to compensate the other. Thus, a quasi contract is a retroactive judgment to correct a circumstance in which one party acquires something at the expense of the other.

**What was the judgment in the ICC Katanga trial 2014?** Congolese rebel leader Germain Katanga was convicted by the ICC in March 2014 of war crimes and crimes

against humanity during an attack against Bogoro village in Ituri in eastern DRC. Sentenced to 12 year imprisonment.

**What was the judgment in Poussard v Spiers?** The court ruled that Poussard's breach was not fundamental, as she was ready and willing to perform, thus entitling her to be paid for the rehearsals she did attend. This case highlighted the importance of substantial performance over strict compliance in contractual obligations.

**What was the Judgement in Paradine v Jane?** Judgment. The justices of the King's Bench Division stated that even though in previous cases they would not allow a lessor to proceed against a lessee in time of war, Jane was still liable for the rent.

**What was the Judgement in Al adsani v UK?** The application was examined inter partes by the High Court on 15 March 1995. In a judgment delivered the same day the court held that it was for the applicant to show on the balance of probabilities that the State of Kuwait was not entitled to immunity under the 1978 Act.

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