

IV HYDROGEN PEROXIDE THERAPY

UNDERSTANDING IV HYDROGEN PEROXIDE THERAPY: A COMPREHENSIVE OVERVIEW

IV HYDROGEN PEROXIDE THERAPY REPRESENTS A CONTROVERSIAL YET INTRIGUING AREA OF ALTERNATIVE AND COMPLEMENTARY MEDICINE, GARNERING ATTENTION FOR ITS PURPORTED BENEFITS IN ADDRESSING A WIDE RANGE OF HEALTH CONDITIONS. WHILE NOT A CONVENTIONAL MEDICAL TREATMENT, PROponents SUGGEST THAT INTRAVENOUS ADMINISTRATION OF HYDROGEN PEROXIDE CAN ACT AS A POWERFUL OXIDANT, TARGETING PATHOGENS AND IMPROVING OXYGEN UTILIZATION WITHIN THE BODY. THIS ARTICLE DELVES INTO THE SCIENCE, POTENTIAL APPLICATIONS, ADMINISTRATION PROTOCOLS, AND SAFETY CONSIDERATIONS SURROUNDING THIS THERAPY. WE WILL EXPLORE THE PROPOSED MECHANISMS OF ACTION, DISCUSS THE CONDITIONS IT IS CLAIMED TO TREAT, OUTLINE THE GENERAL PROCEDURES INVOLVED IN ITS DELIVERY, AND CRITICALLY EXAMINE THE AVAILABLE EVIDENCE AND INHERENT RISKS ASSOCIATED WITH IV HYDROGEN PEROXIDE THERAPY. UNDERSTANDING THE NUANCES OF THIS TREATMENT IS CRUCIAL FOR ANYONE CONSIDERING ITS USE OR SEEKING TO COMPREHEND ITS PLACE IN THE BROADER HEALTH LANDSCAPE.

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WHAT IS IV HYDROGEN PEROXIDE THERAPY?

IV HYDROGEN PEROXIDE THERAPY INVOLVES THE INTRAVENOUS (IV) ADMINISTRATION OF HYDROGEN PEROXIDE (H_2O_2), A SIMPLE CHEMICAL COMPOUND COMPOSED OF HYDROGEN AND OXYGEN. IT IS TYPICALLY DILUTED TO VERY LOW CONCENTRATIONS, OFTEN RANGING FROM 0.03% TO 0.1%, BEFORE BEING INFUSED INTO A VEIN OVER A PERIOD OF TIME. THIS METHOD OF DELIVERY BYPASSES THE DIGESTIVE SYSTEM, ALLOWING THE HYDROGEN PEROXIDE TO ENTER THE BLOODSTREAM DIRECTLY AND CIRCULATE THROUGHOUT THE BODY. THE RATIONALE BEHIND THIS APPROACH IS TO LEVERAGE THE OXIDIZING PROPERTIES OF HYDROGEN PEROXIDE IN A CONTROLLED MANNER TO ACHIEVE THERAPEUTIC EFFECTS.

WHILE HYDROGEN PEROXIDE IS COMMONLY RECOGNIZED AS AN ANTISEPTIC FOR TOPICAL USE, ITS INTRAVENOUS APPLICATION IS A MORE SPECIALIZED AND DEBATED PRACTICE. IT IS CRUCIAL TO DISTINGUISH BETWEEN THE TOPICAL SOLUTIONS READILY AVAILABLE OVER THE COUNTER AND THE MEDICAL-GRADE HYDROGEN PEROXIDE USED IN CONTROLLED IV INFUSIONS UNDER PROFESSIONAL SUPERVISION. THE CONCENTRATION AND PURITY OF THE HYDROGEN PEROXIDE USED IN IV THERAPY ARE PARAMOUNT FOR SAFETY AND EFFICACY, AND IT IS TYPICALLY ADMINISTERED BY PRACTITIONERS TRAINED IN ALTERNATIVE OR COMPLEMENTARY MEDICINE MODALITIES.

PROPOSED MECHANISMS OF ACTION FOR IV HYDROGEN PEROXIDE THERAPY

THE PROPOSED MECHANISMS OF ACTION FOR IV HYDROGEN PEROXIDE THERAPY ARE MULTIFACETED, THOUGH NOT UNIVERSALLY ACCEPTED BY MAINSTREAM MEDICAL SCIENCE. PROponents SUGGEST THAT WHEN INTRODUCED INTO THE BLOODSTREAM, HYDROGEN PEROXIDE CAN ACT AS AN OXIDANT. THIS OXIDIZING CAPABILITY IS THEORIZED TO IMPACT CELLULAR PROCESSES IN SEVERAL WAYS. ONE PRIMARY HYPOTHESIS IS THAT HYDROGEN PEROXIDE CAN DESTABILIZE AND DESTROY FOREIGN INVADERS SUCH AS VIRUSES, BACTERIA, FUNGI, AND PARASITES BY OXIDIZING THEIR CELLULAR COMPONENTS. THIS IS SIMILAR TO HOW IT WORKS AS A TOPICAL DISINFECTANT, BUT ON A SYSTEMIC LEVEL.

ANOTHER PROPOSED MECHANISM INVOLVES THE RELEASE OF OXYGEN. WHEN HYDROGEN PEROXIDE ENCOUNTERS CERTAIN ENZYMES IN THE BODY, SUCH AS CATALASE, IT BREAKS DOWN INTO WATER AND OXYGEN ($H_2O_2 \rightarrow H_2O + O$). THIS RELEASE OF OXYGEN IS THOUGHT TO ENHANCE CELLULAR RESPIRATION AND IMPROVE TISSUE OXYGENATION, POTENTIALLY BENEFITING

CONDITIONS RELATED TO OXYGEN DEPRIVATION. FURTHERMORE, IT IS THEORIZED THAT THE OXIDATIVE STRESS INDUCED BY LOW-DOSE IV HYDROGEN PEROXIDE CAN, PARADOXICALLY, STIMULATE THE BODY'S ANTIOXIDANT DEFENSE SYSTEMS, LEADING TO A NET BENEFICIAL EFFECT OVER TIME. THIS CONCEPT IS OFTEN REFERRED TO AS HORMESIS.

IMMUNE SYSTEM MODULATION

BEYOND DIRECTLY TARGETING PATHOGENS, PROPONENTS SUGGEST THAT IV HYDROGEN PEROXIDE THERAPY CAN MODULATE THE IMMUNE SYSTEM. THE CONTROLLED INTRODUCTION OF OXIDATIVE STRESS IS BELIEVED TO PRIME THE IMMUNE RESPONSE, MAKING IT MORE EFFECTIVE IN FIGHTING OFF INFECTIONS AND DISEASE. SOME PRACTITIONERS CLAIM IT CAN STIMULATE THE PRODUCTION OF CYTOKINES AND OTHER IMMUNE MEDIATORS, THEREBY ENHANCING THE BODY'S NATURAL DEFENSE CAPABILITIES. THIS IMMUNE-BOOSTING EFFECT IS CONSIDERED A KEY BENEFIT BY THOSE WHO ADVOCATE FOR ITS USE IN CHRONIC AND ACUTE ILLNESSES.

IMPROVED CIRCULATION AND METABOLISM

ANOTHER AREA OF PROPOSED BENEFIT RELATES TO CIRCULATION AND CELLULAR METABOLISM. IT IS THEORIZED THAT THE INCREASED OXYGEN AVAILABILITY AND THE OXIDIZING EFFECTS OF HYDROGEN PEROXIDE CAN IMPROVE BLOOD FLOW BY POTENTIALLY BREAKING DOWN CELLULAR DEBRIS OR IMPROVING THE FLEXIBILITY OF RED BLOOD CELLS. THIS IMPROVED CIRCULATION, IN TURN, COULD ENHANCE NUTRIENT DELIVERY AND WASTE REMOVAL AT THE CELLULAR LEVEL, LEADING TO BETTER OVERALL METABOLIC FUNCTION. SOME PRACTITIONERS ALSO SUGGEST IT CAN INTERFERE WITH ANAEROBIC PATHWAYS USED BY CANCEROUS CELLS, ALTHOUGH THIS REMAINS A HIGHLY SPECULATIVE CLAIM.

POTENTIAL APPLICATIONS AND CONDITIONS TREATED WITH IV HYDROGEN PEROXIDE THERAPY

ADVOCATES OF IV HYDROGEN PEROXIDE THERAPY PROPOSE ITS USE FOR A WIDE ARRAY OF CONDITIONS, SPANNING INFECTIOUS DISEASES, CHRONIC ILLNESSES, AND EVEN AGE-RELATED CONCERNS. THE BREADTH OF THESE CLAIMS HIGHLIGHTS THE DIVERSE THEORIES REGARDING ITS PHYSIOLOGICAL IMPACTS. IT IS IMPORTANT TO NOTE THAT THESE APPLICATIONS ARE LARGELY BASED ON ANECDOTAL EVIDENCE AND THE THEORIES OF ITS PROPONENTS, RATHER THAN ROBUST, PEER-REVIEWED CLINICAL TRIALS THAT MEET CONVENTIONAL MEDICAL STANDARDS.

SOME OF THE CONDITIONS FOR WHICH IV HYDROGEN PEROXIDE THERAPY IS SOMETIMES RECOMMENDED INCLUDE:

- CHRONIC FATIGUE SYNDROME
- FIBROMYALGIA
- AUTOIMMUNE DISEASES (E.G., LUPUS, RHEUMATOID ARTHRITIS)
- VIRAL INFECTIONS (E.G., HERPES, INFLUENZA, HIV)
- BACTERIAL INFECTIONS (E.G., LYME DISEASE)
- FUNGAL INFECTIONS
- CERTAIN TYPES OF CANCER (AS AN ADJUNCTIVE THERAPY)
- CIRCULATORY DISORDERS
- DEGENERATIVE DISEASES

INFECTIOUS DISEASE SUPPORT

A significant portion of the proposed applications for IV hydrogen peroxide therapy centers on its role in combating various infectious agents. The idea is that its oxidizing properties can neutralize pathogens throughout the body. This includes a broad spectrum of microorganisms, from common viruses and bacteria that cause acute illnesses to more persistent or resistant infections that may not respond well to conventional antibiotics. Practitioners often suggest it as a supportive therapy for conditions where the immune system may be compromised or overwhelmed.

CHRONIC AND DEGENERATIVE ILLNESSES

Beyond acute infections, proponents also suggest IV hydrogen peroxide therapy can be beneficial for individuals suffering from chronic and degenerative conditions. These may include diseases characterized by inflammation, impaired immune function, or cellular dysfunction. The proposed mechanisms of improving oxygenation and stimulating antioxidant defenses are often cited as reasons why it might offer relief or support in managing conditions like chronic fatigue, autoimmune disorders, and certain neurological conditions. The controversial nature of these claims underscores the need for caution and critical evaluation.

THE ADMINISTRATION PROCESS OF IV HYDROGEN PEROXIDE THERAPY

The administration of IV hydrogen peroxide therapy is a procedure that must be performed by a qualified healthcare professional experienced in this specific treatment modality. It is not a therapy that can or should be attempted at home. The process begins with a thorough consultation and assessment of the patient's health status and medical history. The practitioner will determine if the patient is a suitable candidate for the therapy and discuss potential benefits and risks.

If deemed appropriate, the therapy is administered via a standard intravenous line, similar to how other IV fluids or medications are given. The hydrogen peroxide is typically prepared under sterile conditions, diluted to a precise, very low concentration, and mixed with sterile saline or dextrose solution. The infusion rate is carefully controlled to ensure a slow and steady delivery into the bloodstream. The duration of the infusion can vary, often lasting from 30 minutes to several hours, depending on the prescribed dosage and the patient's tolerance.

DOSAGE AND CONCENTRATION CONSIDERATIONS

The dosage and concentration of hydrogen peroxide used in IV therapy are critical safety parameters. These are typically started at very low levels and gradually increased over subsequent sessions if tolerated and deemed necessary. The exact concentrations and dosages are proprietary to individual practitioners and clinics, but they are significantly lower than what is found in household hydrogen peroxide solutions. The principle of "start low and go slow" is paramount to minimize the risk of adverse reactions.

MONITORING DURING AND AFTER TREATMENT

During the infusion, patients are closely monitored by the healthcare provider. Vital signs such as blood pressure, heart rate, and oxygen saturation are regularly checked. Patients are instructed to report any unusual sensations or symptoms immediately. After the infusion is complete, patients are usually observed for a period to ensure there are no delayed adverse reactions before they are cleared to leave. Follow-up

APPOINTMENTS ARE SCHEDULED TO ASSESS THE PATIENT'S RESPONSE TO THE THERAPY AND PLAN FUTURE SESSIONS IF INDICATED.

SAFETY CONSIDERATIONS AND RISKS ASSOCIATED WITH IV HYDROGEN PEROXIDE THERAPY

WHILE PROponents OF IV HYDROGEN PEROXIDE THERAPY EMPHASIZE ITS SAFETY WHEN ADMINISTERED CORRECTLY, IT IS ESSENTIAL TO ACKNOWLEDGE THE POTENTIAL RISKS AND SIDE EFFECTS ASSOCIATED WITH THIS TREATMENT. HYDROGEN PEROXIDE IS A POTENT OXIDANT, AND IMPROPER ADMINISTRATION OR EXCESSIVELY HIGH CONCENTRATIONS CAN LEAD TO SERIOUS ADVERSE EVENTS. THE MEDICAL COMMUNITY GENERALLY REGARDS INTRAVENOUS HYDROGEN PEROXIDE WITH CAUTION DUE TO THE LIMITED ROBUST SCIENTIFIC EVIDENCE SUPPORTING ITS EFFICACY AND SAFETY COMPARED TO ESTABLISHED MEDICAL TREATMENTS.

POTENTIAL RISKS INCLUDE:

- LOCAL IRRITATION OR PHLEBITIS AT THE INJECTION SITE
- GAS EMBOLISM (AIR BUBBLES ENTERING THE BLOODSTREAM), WHICH CAN BE LIFE-THREATENING
- OXIDATIVE DAMAGE TO HEALTHY CELLS IF ADMINISTERED AT TOO HIGH A CONCENTRATION OR RATE
- ELECTROLYTE IMBALANCES
- ALLERGIC REACTIONS
- DISCOMFORT, SUCH AS A BURNING SENSATION DURING INFUSION

POTENTIAL FOR SERIOUS ADVERSE EVENTS

THE MOST SERIOUS CONCERN WITH IV HYDROGEN PEROXIDE IS THE RISK OF GAS EMBOLISM. IF AIR IS INTRODUCED INTO THE IV LINE OR IF THE HYDROGEN PEROXIDE DECOMPOSES TOO RAPIDLY, THE RESULTING OXYGEN BUBBLES CAN TRAVEL INTO THE BLOODSTREAM AND OBSTRUCT BLOOD FLOW TO VITAL ORGANS LIKE THE BRAIN OR HEART. THIS IS A MEDICAL EMERGENCY THAT CAN HAVE SEVERE OR FATAL CONSEQUENCES. DILIGENT ADMINISTRATION PROTOCOLS, INCLUDING CAREFUL ATTENTION TO THE RATE OF INFUSION AND THE USE OF APPROPRIATE EQUIPMENT, ARE DESIGNED TO MITIGATE THIS RISK, BUT IT CANNOT BE ENTIRELY ELIMINATED.

IMPORTANCE OF PROFESSIONAL ADMINISTRATION

DUE TO THESE INHERENT RISKS, IT IS UNEQUIVOCALLY STATED THAT IV HYDROGEN PEROXIDE THERAPY SHOULD ONLY BE ADMINISTERED BY LICENSED HEALTHCARE PROFESSIONALS WHO POSSESS SPECIALIZED TRAINING AND EXPERIENCE IN ADMINISTERING IV THERAPIES AND UNDERSTANDING THE SPECIFIC PROTOCOLS FOR HYDROGEN PEROXIDE. SELF-ADMINISTRATION OR TREATMENT BY UNTRAINED INDIVIDUALS IS EXTREMELY DANGEROUS. PRACTITIONERS MUST ADHERE TO STRICT STERILE TECHNIQUES, ACCURATE DILUTION RATIOS, AND CONTROLLED INFUSION RATES. PATIENTS CONSIDERING THIS THERAPY SHOULD THOROUGHLY VET THE QUALIFICATIONS AND EXPERIENCE OF THEIR PRACTITIONER AND DISCUSS ALL POTENTIAL RISKS AND BENEFITS OPENLY.

EVIDENCE AND SCIENTIFIC STANDING OF IV HYDROGEN PEROXIDE THERAPY

THE SCIENTIFIC EVIDENCE SUPPORTING THE EFFICACY AND SAFETY OF IV HYDROGEN PEROXIDE THERAPY FOR MOST OF THE CONDITIONS IT IS CLAIMED TO TREAT IS CONSIDERED LIMITED AND LARGELY ANECDOTAL BY CONVENTIONAL MEDICAL STANDARDS. WHILE THE BASIC CHEMICAL PROPERTIES OF HYDROGEN PEROXIDE ARE WELL-UNDERSTOOD, TRANSLATING THESE PROPERTIES INTO PROVEN THERAPEUTIC BENEFITS VIA INTRAVENOUS ADMINISTRATION HAS NOT BEEN SUBSTANTIATED BY LARGE-SCALE, RANDOMIZED, PLACEBO-CONTROLLED CLINICAL TRIALS. MUCH OF THE SUPPORT FOR THIS THERAPY COMES FROM CASE STUDIES, OBSERVATIONAL REPORTS, AND THEORETICAL EXPLANATIONS RATHER THAN RIGOROUS SCIENTIFIC VALIDATION.

THE MEDICAL COMMUNITY GENERALLY CATEGORIZES IV HYDROGEN PEROXIDE THERAPY AS EXPERIMENTAL OR UNPROVEN. REGULATORY BODIES SUCH AS THE U.S. FOOD AND DRUG ADMINISTRATION (FDA) HAVE NOT APPROVED HYDROGEN PEROXIDE FOR INTRAVENOUS USE AS A MEDICAL TREATMENT FOR ANY CONDITION. CONSEQUENTLY, IT IS OFTEN OFFERED IN CLINICS THAT SPECIALIZE IN ALTERNATIVE OR COMPLEMENTARY MEDICINE, AND PATIENTS MAY HAVE TO PAY OUT-OF-POCKET AS IT IS TYPICALLY NOT COVERED BY STANDARD HEALTH INSURANCE.

NEED FOR FURTHER RESEARCH

WHILE SOME PRELIMINARY STUDIES AND THEORETICAL DISCUSSIONS EXIST, THERE IS A SIGNIFICANT CALL FOR MORE ROBUST, WELL-DESIGNED CLINICAL RESEARCH TO DEFINITELY ESTABLISH THE BENEFITS AND RISKS OF IV HYDROGEN PEROXIDE THERAPY. SUCH RESEARCH WOULD NEED TO INVESTIGATE SPECIFIC DOSAGES, TREATMENT PROTOCOLS, AND TARGET PATIENT POPULATIONS. UNTIL SUCH EVIDENCE BECOMES AVAILABLE, ITS USE REMAINS OUTSIDE THE REALM OF CONVENTIONAL MEDICAL PRACTICE, AND PATIENTS SHOULD APPROACH IT WITH INFORMED CAUTION, THOROUGHLY DISCUSSING ITS POTENTIAL WITH QUALIFIED HEALTHCARE PROVIDERS WHO UNDERSTAND BOTH CONVENTIONAL AND ALTERNATIVE APPROACHES.

IN CONCLUSION, IV HYDROGEN PEROXIDE THERAPY REMAINS A SUBJECT OF INTEREST AND DEBATE. WHILE ITS PROponents HIGHLIGHT POTENTIAL BENEFITS STEMMING FROM ITS OXIDIZING AND OXYGEN-RELEASING PROPERTIES, THE MEDICAL ESTABLISHMENT LARGELY VIEWS IT AS AN UNPROVEN TREATMENT WITH ASSOCIATED RISKS. A THOROUGH UNDERSTANDING OF THE PROPOSED MECHANISMS, ADMINISTRATION PROTOCOLS, AND SAFETY CONSIDERATIONS IS ESSENTIAL FOR ANYONE EXPLORING THIS THERAPEUTIC OPTION. AS WITH ANY MEDICAL INTERVENTION, CONSULTING WITH KNOWLEDGEABLE HEALTHCARE PROFESSIONALS AND CRITICALLY EVALUATING AVAILABLE INFORMATION ARE PARAMOUNT STEPS IN MAKING INFORMED DECISIONS ABOUT ONE'S HEALTH.

FAQ

Q: WHAT IS THE PRIMARY PROPOSED BENEFIT OF IV HYDROGEN PEROXIDE THERAPY?

A: THE PRIMARY PROPOSED BENEFIT OF IV HYDROGEN PEROXIDE THERAPY IS ITS HYPOTHESIZED ABILITY TO ACT AS A POWERFUL OXIDANT, TARGETING AND DESTROYING PATHOGENS LIKE VIRUSES, BACTERIA, AND FUNGI WITHIN THE BODY, AS WELL AS ENHANCING CELLULAR OXYGEN UTILIZATION.

Q: IS IV HYDROGEN PEROXIDE THERAPY A RECOGNIZED MEDICAL TREATMENT?

A: NO, IV HYDROGEN PEROXIDE THERAPY IS NOT A WIDELY RECOGNIZED OR APPROVED MEDICAL TREATMENT BY MAINSTREAM MEDICAL ORGANIZATIONS OR REGULATORY BODIES LIKE THE FDA. IT IS GENERALLY CONSIDERED EXPERIMENTAL OR ALTERNATIVE MEDICINE.

Q: WHAT ARE THE RISKS ASSOCIATED WITH IV HYDROGEN PEROXIDE THERAPY?

A: POTENTIAL RISKS INCLUDE LOCAL IRRITATION, PHLEBITIS, GAS EMBOLISM (WHICH CAN BE LIFE-THREATENING), OXIDATIVE DAMAGE TO HEALTHY CELLS IF NOT ADMINISTERED CORRECTLY, ELECTROLYTE IMBALANCES, AND ALLERGIC REACTIONS.

Q: WHO SHOULD ADMINISTER IV HYDROGEN PEROXIDE THERAPY?

A: IV HYDROGEN PEROXIDE THERAPY SHOULD ONLY BE ADMINISTERED BY LICENSED HEALTHCARE PROFESSIONALS WHO HAVE SPECIALIZED TRAINING AND EXPERIENCE IN INTRAVENOUS THERAPIES AND SPECIFICALLY IN THE ADMINISTRATION OF HYDROGEN PEROXIDE.

Q: CAN I PURCHASE HYDROGEN PEROXIDE FOR IV THERAPY AT A PHARMACY?

A: OVER-THE-COUNTER HYDROGEN PEROXIDE SOLUTIONS ARE NOT SUITABLE OR SAFE FOR INTRAVENOUS ADMINISTRATION. MEDICAL-GRADE HYDROGEN PEROXIDE, PREPARED AND DILUTED UNDER STRICT STERILE CONDITIONS BY TRAINED PROFESSIONALS, IS REQUIRED FOR IV THERAPY.

Q: WHAT IS THE TYPICAL CONCENTRATION OF HYDROGEN PEROXIDE USED IN IV THERAPY?

A: THE CONCENTRATIONS USED IN IV HYDROGEN PEROXIDE THERAPY ARE TYPICALLY VERY LOW, OFTEN RANGING FROM 0.03% TO 0.1%, AND ARE CAREFULLY DILUTED WITH SALINE OR DEXTROSE SOLUTIONS BEFORE INFUSION.

Q: WHAT CONDITIONS ARE ANECDOTALLY CLAIMED TO BE TREATED WITH IV HYDROGEN PEROXIDE THERAPY?

A: ANECDOTALLY, IT IS CLAIMED TO HELP WITH A WIDE RANGE OF CONDITIONS INCLUDING CHRONIC FATIGUE, FIBROMYALGIA, AUTOIMMUNE DISORDERS, VIRAL AND BACTERIAL INFECTIONS, FUNGAL INFECTIONS, AND EVEN AS AN ADJUNCTIVE THERAPY FOR CERTAIN TYPES OF CANCER.

Q: IS THERE STRONG SCIENTIFIC EVIDENCE TO SUPPORT THE USE OF IV HYDROGEN PEROXIDE THERAPY?

A: THE SCIENTIFIC EVIDENCE SUPPORTING THE EFFICACY AND SAFETY OF IV HYDROGEN PEROXIDE THERAPY IS CONSIDERED LIMITED AND LARGELY ANECDOTAL BY CONVENTIONAL MEDICAL STANDARDS, LACKING LARGE-SCALE, RANDOMIZED, PLACEBO-CONTROLLED CLINICAL TRIALS.

Q: CAN IV HYDROGEN PEROXIDE THERAPY BE COVERED BY HEALTH INSURANCE?

A: IN MOST CASES, IV HYDROGEN PEROXIDE THERAPY IS NOT COVERED BY STANDARD HEALTH INSURANCE BECAUSE IT IS CONSIDERED AN EXPERIMENTAL OR ALTERNATIVE TREATMENT. PATIENTS TYPICALLY PAY FOR IT OUT-OF-POCKET.

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