

Tipos de precipitacion inmunologia

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various HLA loci (HLA-A locus, HLA-B locus, HLA-C locus, HLA-D locus, etc.) are amplified separately. Enhanced DNA fragments are then immobilized on nylon membranes and hybridized with marked probes (oligonucleotides) specific to various HLA alleles. A diagram of signals received according to the probes that reacted is detected using radiographic plates, allowing the allele to be assigned to a sample analyzed. Stages: 1. Patient blood test 2. DNA isolation 3. A chain reaction polymerase (PCR) with different specific primers for different HLA 4 loci. Electrophoresis in agarosis gels to check the response quality of PCR 5. PCR products in nylon 6 membranes. Hybridization of membranes with allele-specific probes marked 32P 7. Exposure to membranes on X-ray plates 8. Analysis of the structure of signals received in membranes 9. Integration of the results 10. Assigning alleles in the sample analyzed

General Methods of Sketch Considerations: Benefits: - Does not require cellular isolation (working with all blood) - High resolution - Technique can be discontinued in various steps - Using quite a large number of probes, homisogosis can be detected , detection of hemoluminescence can be performed, so that no radioactive waste is generated - Allows detection of zero alleles - allows simultaneous analysis of a large number of samples Flaws: - Complex interpretation (cross reactivity between probes , the detection of certain combinations of alleles produce similar models in autoadiographic plates) - The conditions of washing different probes can be different, which complicates in the simultaneous processing of many samples - Despite their high resolution, ambiguities remain (although they are much less than in the above methods) - Complex and expensive equipment that requires somewhat more complex equipment (PCR machine, hybridization of furnace, radioscope processing infrastructure) - SBT Foundation radioactive waste generation: 22. 21 In this method, chain reaction polymerase (PCR) is carried out using DNA extracted from the patient's peripheral blood cells as a form. Specific oligonucleotides are used as a primer of oligonucleotides for various HLA loci (HLA-A locus, HLA-B locus, HLA-C locus, HLA-D locus, etc.) are amplified separately. Enhanced DNA fragments are then sequenced directly using an automatic DNA sequencer, which also analyzes the resulting sequences and, compared to the internal database, assigns the HLA alleles to the analyzed sample. Stages: 1. Patient blood test 2. DNA isolation 3. A chain reaction polymerase (PCR) with different specific primers for different HLA 4 loci. Electrophoresis in agarosis gels to check the response quality of PCR 5. Perform a sequence reaction using the first, marked with orochroms, suitable for the type of detector possessed by sequencer 6. The sequence analysis received 7. Comparison with the sequence database used by the device and the integration of the results 8. Assigning alleles to a sample analyzed by General Sketches of Techniques Considerations: Benefits: Cell Isolation (working with whole blood) - High resolution (maximum possible resolution achieved) - Technique can be discontinued in various steps - Ideal for detection of gomosigosis - Optimal for cadaver donor typing - Automated interpretation - Allows you to detect zero alleles Flaws: - Complex technique requiring complex and expensive equipment (automatic sequence) 22 6. CROSS-MATCH. Purpose: Determine the presence of specific serum HLA allel antibodies of patients on the waiting list for vascularized solid organ transplantation. Modalities: 6th place. Final cross-match vs. donor. The goal is to analyze the presence of serum antibodies specifically directed against the potential donor's HLA alleles. Analyzing the presence or absence of these antibodies is crucial to deciding whether or not a transplant is performed. This is because the presence of this type of pre-formed antibodies in the recipient of the transplant inevitably leads to hyperagat rejection. This method can be performed micro lymphocytotoxicity in Terasaki plates or cytometry flow. In the first case, the recipient's serum collides with peripheral blood cells from a potential donor (if it is a living donor) or with spleen cells or lymph nodes (if you are a cadapher donor). After incubation, the source of the supplement is added and the technique described in Microinfocytotoxicity in Telasaki plates continues. In the case of the final cross-match against the flow of cytometry give, monoyander peripheral blood or spleen or lymph nodes of the cells of a potential donor, with the serum receptor collide. After incubation, the system is revealed with human anti-immunoglobulin goat or rabbit immunoglobulins marked with fluorochrome (phtorshane isotocyanate commonly used). Finally, the cells are analyzed in the cytometer of the stream. 6.b. Cross-match vs. panel: Aims to analyze the presence of serum antibodies against various HLA alleles from a potential donor. This method is usually performed microlinfocytotoxicity in Terasaki plates, where the serum receptor collides with peripheral blood cells of various individuals whose HLA alleles are representative of the population (usually using 20 heterozygous individuals in order to cover 40 alleles of each locus). After incubation, the source of the supplement is added and the technique described in Microinfocytotoxicity in Terasaki plates continues. This method calculates the percentage of cells that were poured in the test, which is equivalent to the number of alleles against specific Ac, expressed as a percentage of the total number of alleles analyzed during the trial. The calculated setting is called PRA (reactive antibody panel), and it has been noted that there is a link between PRA and the likelihood of success or failure of a kidney transplant. 7. IMMUNOLOGICAL TECHNIQUES TO STUDY THE FUNCTIONALITY OF FAGOCYTES 7th Nitroblue Tetrazolium Reduction Trial (NBT) This study evaluates the ability of microbicides of certain immune system cells by converting a colorless chemical compound, NBT, into an intensely colored compound. For this test, blood is taken from the patient and the procedure is performed to separate polymorphono cell cells (mostly neutrophils). NBT is added to these cells. Neurothylas have the enzyme NADPH Oxidase, which is capable of generating reactive oxygen mediators that attack microorganisms. These reactive oxygen mediators are also responsible for turning the colorless NBT into a dark blue compound called Formazan. This is displayed by looking at a patient's neutrophils under a microscope to see if they have a dark blue compound. If the patient's neutrophils have any changes in the functioning of the nadPH oxidase enzyme (as in those with chronic granulomatous diseases), they can ingest bacteria but not destroy them and therefore will not be able to cause a change in the color of the NBT. In a healthy person, more than 95% of neutrophils are able to reduce NBT. In most patients with chronic granulomatous diseases, only 20% to 80% of neutrophils are able to reduce NBT. In cases where clinical suspicions of chronic granulomatous disease are high, more specific tests should be carried out on oxidative metabolism of neutrophil neutrophil (oxidation dyes producing fluorescent compounds, etc.). The use of the drug D-penicillamine can give abnormal results in the trial of reducing NBT, as if it were a chronic granulomatous disease. 24. 23 7.b. Microbicide Analysis This study assesses the phagocytic function of immune system cells. It requires that these cells, to be able to phagocytes and make a breathing explosion, depends on the enzyme nadPH oxidase. For this test, blood is taken from the patient and the procedure is performed to separate polymorphonogluary (mostly neutrophil) or monocyte cells. Oponized bacteria (Staphylococcus aureus) are added to these cells, incubated at 37oC and samples are extracted at 30-minute intervals within 2 hours. These plaque samples on the blood agar and are incubated throughout the night at 37oC. This allows bacteria to grow and form visible colonies. Thus, the number of colonies for each mining time is calculated and number of colonies against time. It is to be expected that as the incubation time is longer, the number of colonies is lower because the patient's cells have phagocyte bacteria and therefore fewer and fewer bacteria. Agar is a nutritious cultural environment (looks like gelatin). In particular, the agar of blood is enriched with blood and serves to detect some bacteria, such as Staphylococcus aureus, which are released by exotoxins called hemotysins, which can smooth out red blood cells. % Bacteria die time tipos de reacciones de precipitacion inmunologia

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