## ALLERGY SCREENING TESTS (BY IMMUNO - EIA )

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| TEST | RESULT | NORMALS |
| AGE | IgE Level |
| IgE | 137.5 KU/L | <5 Years5 - 10 Years>10 Years | 5 - 25 KU/L20-50 KU/L20-100 KU/L |
|  | Normal For All Allergens is | <than 0.35 U/L |

ALLERGEN DETECTED

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| **Food Veg.** | APPLE, SEASAME SEED,GROUNDNUT,MELON, MAIZE, ONION, SOYA BEANS |
| **Food Non veg.** | NIL |
| **Inhalants** | HOUSE DUST, HOUSE DUST MITE, COCKROACH, WOOD DUST, PARTHENIUM, JHONSON GRASS, BERMUDA GRASS |
| **Contact** | LATEX |
| **Drug** | SULFAMETHAXOLE |

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| FOOD (VEG) |
| ALLERGEN |  | VALUE | ALLERGEN |  | VALUE |

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| ALMOND | बादाम |  |  | 0.02 | ARECANUT | सुपारी |  |  | 0.11 |
| BARLEY | जौ |  |  | 0.22 | CABBAGE |  |  |  | 0.15 |
| CARROT | गाजर |  |  | 0.22 | CHEESE | पनीर |  |  | 0.21 |
| CLOVE | लौगं |  |  | 0.33 | COFFEE | कॉफी |  |  | 0.24 |
| CUCUMBER | खीरा |  |  | 0.17 | DAL ARHAR | दालअरहर |  |  | 0.10 |
| DAL MOONG | दालमूंग |  |  | 0.15 | DATES | खजूर |  |  | 0.31 |
| GARLIC | लहसुन |  |  | 0.20 | **GROUNDNUT** | **मूंगफली** |  | **+** | **0.50** |
| JAGGERY | गुड़ |  |  | 0.24 | LADY S FINGER |  |  |  | 0.14 |
| MANGO | आम |  |  | 0.13 | MSG ( AJINOMOTO) | अजीनोमोटो |  |  | 0.17 |
| NUTMEG | जायफल |  |  | 0.13 | ORANGE | संतरा |  |  | 0.24 |
| PINEAPPLE | अनानास |  |  | 0.11 | RADISH | मूली |  |  | 0.02 |
| **SESAME** |  |  | **+** | **0.43** | SQUASH |  |  |  | 0.28 |
| SUNFLOWER |  |  |  | 0.02 | TOBACCO |  |  |  | 0.14 |
| TURMERIC | gYnh |  |  | 0.23 | WHEAT |  |  |  | 0.10 |
| ANISEED | सौफं |  |  | 0.32 | BAJARI | बजरी |  |  | 0.22 |
| BLACK PEPPER |  |  |  | 0.15 | CAPSICUM |  |  |  | 0.21 |
| CASHEWNUT | काजू |  |  | 0.28 | CHILLY |  |  |  | 0.02 |
| COCOA | कोको |  |  | 0.22 | CORIANDER | िधनया |  |  | 0.14 |
| CUMMIN | जीरा |  |  | 0.02 | DAL CHANA | दालचना |  |  | 0.14 |

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| FOOD (Veg) |
| ALLERGEN |  | VALUE | ALLERGEN |  | VALUE |

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| DAL RAJMA | दालराजमा |  | 0.12 | EGGS | अंडे |  | 0.14 |
| GINGER | अदरक |  |  | 0.23 | GUVAVA |  |  |  | 0.05 |
| KATHA |  |  |  | 0.23 | LEMON |  |  |  | 0.02 |
| **MELON** | **खरबूज** |  |  | **0.50** | MUSHROOM |  |  |  | 0.23 |
| OAT | जई |  |  | 0.20 | PAPAYA | पपीता |  |  | 0.33 |
| PISTA. |  |  |  | 0.14 | RICE | चावल |  |  | 0.22 |
| **SOYABEAN** | **सोयाबीन** |  | **+** | **0.39** | STRAW BERRY | झरबेर |  |  | 0.14 |
| TAMARIND | इमली |  |  | 0.31 | TOMATOES | टमाटर |  |  | 0.05 |
| VINEGAR |  |  |  | 0.22 | YEAST | ख़मीर |  |  | 0.33 |
| **APPLE** | **सेब** |  | **+** | **0.48** | BANANA | केला |  |  | 0.14 |
| BRINJAL |  |  |  | 0.22 | CADIMUM | इलायची |  |  | 0.01 |
| CAULIFLOWER | फूलगोभी |  |  | 0.31 | CINNAMON | दालचीनी |  |  | 0.24 |
| COCONUT |  |  |  | 0.02 | COTTON SEED |  |  |  | 0.18 |
| CURD | दही |  |  | 0.11 | DAL MASOOR | दालमसूर |  |  | 0.31 |
| DAL URAD | दालउड़द |  |  | 0.05 | FENUGREEK |  |  |  | 0.06 |
| GRAPES | अंगूर |  |  | 0.23 | HONEY | शहद |  |  | 0.03 |
| LACTOGLOBULIN |  |  |  | 0.23 | **MAIZE** |  |  | **+** | **0.45** |
| MILK | दू ध |  |  | 0.19 | MUSTARD | सरसों |  |  | 0.02 |
| **ONION** |  |  | **+** | **0.38** | PEAS | मटर |  |  | 0.11 |
| POTATO | आलू |  |  | 0.02 | SALT | नमक |  |  | 0.13 |
| SPINACH | पालक |  |  | 0.31 | SUGAR | चीनी |  |  | 0.22 |
| TEA | चाय |  |  | 0.14 | TOOR DAL | तूरदाल |  |  | 0.15 |
| WALNUT | अखरोट |  |  | 0.33 |  |  |  |  |  |

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| INHALANTAS |
| ALLERGEN |  | VALUE | ALLERGEN |  | VALUE |

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|  |  |  |  |  | ACACIA RABICA | बबूल |  |  | 0.33 |
| AMARANTHUS | चौलाई |  |  | 0.18 | ASPERGILLUS |  |  |  | 0.26 |
| AZADIRECHTA INDICA | नीम |  |  | 0.09 | BRASSICA Campestris | सरसोंकाफू ल |  |  | 0.23 |
| CANNABIS SATIVA | भांगकापौधा |  |  | 0.33 | CAT DANDER | कै ट रोष |  |  | 0.14 |
| CHALK POWDER | चाकपाउडर |  |  | 0.23 | **COCKROACH DUST** |  |  | **+** | **0.50** |
| COTTON FIBERS | कपासफाइबर |  |  | 0.30 | CYNODON DACTYLON | दू ब घास |  |  | 0.21 |
| DANDELION | कुकरौधंा |  |  | 0.14 | EUCALYPTUS |  |  |  | 0.33 |
| GOAT DANDER | बकरीकी |  |  | 0.35 | HONEY BEE |  |  |  | 0.01 |
| **HOUSEDUST** | **घरधूल** |  | **+** | **0.40** | INSECT | कीट |  |  | 0.33 |
| **JOHNSON GRASS** | **जॉनसनघास** |  | **+** | **0.65** | JUNIPERUS COMMUNIS | जूनीपेरस |  |  | 0.22 |
| LAWSONIA INERMIS | मेहँदी |  |  | 0.14 | NEUROSPORA SPP |  |  |  | 0.22 |
| PENICILLIUM SPP |  |  |  | 0.24 | RAGWEED | रैगवीड |  |  | 0.33 |
| RICINUS COMMUNIS |  |  |  | 0.02 | SORGHUM VULGARE | बाजरा |  |  | 0.21 |
| TEA LEAVES | चायकी |  |  | 0.22 | **WOOD DUST** | **लकड़ीकाबुरादा** |  | **+** | **0.56** |
| ADHATODA VASICA | अडूसा |  |  | 0.33 | ARGEMONE MEXICANA |  |  |  | 0.22 |
| ASPERGILLUS NIGER |  |  |  | 0.14 | GRAVEL DUST | बजरीधूल |  |  | 0.33 |
| BUFFALO DANDER |  |  |  | 0.22 | CARICA PAPAYA | पपीतेकापेड़ |  |  | 0.33 |
| CEDRUS DEODARA | देवदार |  |  | 0.11 | CHENOPODIUM ALBUM | बथुआ |  |  | 0.22 |
| COCUS NUCIFERA |  |  |  | 0.22 | COW DANDER | गायकी |  |  | 0.14 |
| CYPERUS ROTUNDUS |  |  |  | 0.22 | DOG DANDER |  |  |  | 0.34 |

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| INHALANTAS |
| ALLERGEN |  | VALUE | ALLERGEN |  | VALUE |

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| FEATHER DUST | पंखधूल |  | 0.14 | HAY DUST | घासधूल |  | 0.02 |
| HORSE DANDER | घोड़ेकेबालों |  |  | 0.33 | **HOUSE DUST MITE** | **घुन** |  | **+** | **0.43** |
| IPOMOEA FISTULOSA | बेहया |  |  | 0.18 | JOWAR DUST | कीधूल |  |  | 0.10 |
| JUTE DUSTRTG | जूटधूल |  |  | 0.33 | MOSQUITO |  |  |  | 0.02 |
| PAPER DUST | कागजधूल |  |  | 0.11 | PHOENIX Dactylifera | जंगलीबादाम |  |  | 0.33 |
| RHIZOPUS NIGRICANS |  |  |  | 0.22 | RYE GRASS | राईघास |  |  | 0.01 |
| STRAW DUST |  |  |  | 0.31 | TYPHA ANGUSTATA |  |  |  | 0.10 |
| XANTHIUM Stermarlum | छोटाधतूरा |  |  | 0.01 | ALTERNARIA TENUIS |  |  |  | 0.33 |
| ARTEMISIA SCOPARIA | नागदोना |  |  | 0.01 | ASPERGILLUSTAMARIE |  |  |  | 0.21 |
| **BERMUDA GRASS** | **बरमूडाघास** |  | **+** | **0.58** | CANDIDA ALBICANS |  |  |  | 0.01 |
| CASSIA FISTULA |  |  |  | 0.03 | CENCHRUS CILIARIS | बुफलघास |  |  | 0.22 |
| CLADOSPORIUM HERB |  |  |  | 0.11 | COTTON DUST | कपासधूल |  |  | 0.02 |
| CRICKET |  |  |  | 0.11 | DAISY | गुलबहार |  |  | 0.33 |
| ETHYLENE OXIDE |  |  |  | 0.25 | FLOUR MILL DUST | आटा धूल |  |  | 0.02 |
| HOLOPTELEA INT |  |  |  | 0.01 | HOUSE FLY |  |  |  | 0.28 |
| IMPERATA Cylindrica |  |  |  | 0.10 | JEERA DUST | जीराधूल |  |  | 0.12 |
| JULIFLORA | जंगलीबाबुल |  |  | 0.18 | KIGELIA PINNATA | जंगलीखीरे |  |  | 0.12 |
| MUGWORT | नागदोना |  |  | 0.11 | **PARTHENIUM** |  |  | **+** | **0.57** |
| PINE | चीड़कापेड़ |  |  | 0.23 | RICE DUST | चावलधूल |  |  | 0.01 |
| SHEEP WOOL | भेड़केबाल |  |  | 0.31 | SUAEDA FRUTICOSA |  |  |  | 0.20 |
| WHEAT DUST | कीधूल |  |  | 0.03 | ZEA MAYS |  |  |  | 0.14 |

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| CONTACTANTS & OTHERS |
| ALLERGEN |  | VALUE | ALLERGEN |  | VALUE |

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| ALCOHOL | शराब |  |  | 0.11 | DETERGENT | साफकरनेवाला |  |  | 0.34 |
| LEATHER | चमड़ा |  |  | 0.21 | NYLON FIBERS | नायलॉनफाइबर |  |  | 0.33 |
| PLASTIC |  |  |  | 0.20 | ASH | टैटू |  |  | 0.11 |
| HAIR DYE | के श रंगना |  |  | 0.14 | LIME STONE | चूनेका |  |  | 0.24 |
| PAINTS |  |  |  | 0.01 | POLYESTER |  |  |  | 0.22 |
| BONE CEMENTPMMA |  |  |  | 0.18 | **LATEX** |  |  | **+** | **0.39** |
| NICKEL |  |  |  | 0.11 | PERFUME | खुशबू |  |  | 0.31 |
| POWDER | पाउडर |  |  | 0.02 | SILK | रेशम |  |  | 0.31 |
| SOAP | साबुन |  |  | 0.01 | CAUSTIC SODA |  |  |  | 0.10 |
| SMOKE |  |  |  | 0.08 | WOOL MIX | ऊन |  |  | 0.21 |
| SULFUR |  |  |  | 0.23 | SMOKING(TOBACCO) |  |  |  | 0.14 |
| YARN FIBRE |  |  |  | 0.03 |  |  |  |  |  |

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| FOOD (NON-VEG) |
| ALLERGEN |  | VALUE | ALLERGEN |  | VALUE |

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| BEEF | गायकामांस |  |  | 0.335 | SHRIMP | दसपांवकीमछली |  |  | 0.11 |
| FISH | मछली |  |  | 0.02 | CHICHEN MEAT | कामांस |  |  | 0.14 |
| MUTTON | बकराकामांस |  |  | 0.33 | CRAB | केकड़ा |  |  | 0.14 |
| PORK | सूअरकामांस |  |  | 0.02 | PRAWN | झीगंा |  |  | 0.03 |

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| DRUGS |

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| AMOXICILLIN |  | 0.06 | ASPIRIN |  | 0.02 |
| CIPROFLOXACIN |  | 0.21 | DOXYCYCLIN |  | 0.28 |
| INSULIN (HUMAN) |  | 0.11 | NIMESULIDE | + | 0.40 |
| OXACILLIN |  | 0.33 | HENYLPBUTAZONE |  | 0.01 |
| PYRAZOLONE |  | 0.15 | TETRACYCLINE |  | 0.22 |
| TINIDAZOLE |  | 0.33 | AMPICILLIN |  | 0.15 |
| BRUFEN |  | 0.32 | CLOXACILLIN |  | 0.21 |
| EPINEPHRINE |  | 0.35 | KETOPROFEN |  | 0.15 |
| NORFLOXACIN |  | 0.22 | PARACETAMOL |  | 0.31 |
| PIROXICAM |  | 0.02 | STREPTOMYCIN |  | 0.21 |
| TETRAZIN |  | 0.31 | TRIMETHROPRIM |  | 0.35 |
| ARTICAIN |  | 0.01 | CEPHALOSPORIN |  | 0.21 |
| DICLOFENAC |  | 0.31 | ERYTHROMYCIN |  | 0.02 |
| METAMIZOL |  | 0.03 | OFLOXACIN |  | 0.21 |
| PENICILLIN |  | 0.23 | PROCAIN |  | 0.21 |
| **SULPHA** | **+** | **0.40** | THEOPHILLINE |  | 0.22 |
| XYLOCAIN |  | 0.33 |  |  |  |



## Dr. YUGAM CHOPRA

## MBBS,MD (Consultant Pathologist)

*INTERPRETATION*:

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| *RAST CLASS* | *CONCENTRATION (IU/ml)* | *IMPRESSION* |
|  0 | < 0.35 |  NOT DETECTABLE |
|  1 |  0.35 – 0.70 |  LOW |
|  2 |  0.70 – 3.50 |  MODERATE |
|  3 |  3.50 – 17.50 |  CLEARLY POSITIVE |
|  4 |  17.50 – 50.00 |  STRONGLY POSITIVE |
|  5 |  50.00 – 100.00 |  VERY STRONG POSITIVE |
|  6 | > 100 |  EXTREMELY POSITIVE |

The Worlwide frequency of allergies has increased significantly over the past decades. The term allergy is used for TYPE 1 HYPERSENSITIVITY REACTIONS (IMMEDIATE TYPE REACTIONS). Symptoms generally occur 30-60 mins after contact with allergen.

SYMPTONS ARE:

1.HAY FEVER (RHINITIS)

2.CONJUNCTIVITIS

3.HIVES (URTICARIA)

4.ALLERGIC ASTHAMA

5.ANAPHYLACTIC SHOCK (MOST DANGEROUS)

The allergens causing Type 1 hypersensitivity reactions are mostly protein derived from the natural environment e.g. Plant pollens, animal,hair,food ,mites and insect venom. The characteristics of type 1 allergies is the environment of allergen specific immunoglobins (antibodies) of class E (IgE). Hence the detection of IgE is an important tool of modern allergy diagnostics.

IMPORTANT NOTE FOR DRUG ALLERGY:

*1.A DRUG ALLERGY IS AN ALLERGY CAUSED BY MEDICATION.*

*2.A PSEUDO ALLERGIC OR ANAPHALACTIOD REACTION, LOOKS LIKE AN ALLERGY DRUG REACTION, BUT IT MAY NOT BE ALLERGY. DRUG CONTAINS MANY DIFFERENT SUBSTANCES LIKE DYES, CHEMICALS WHICH CAN CAUSE ALLERGY LIKE REACTIONS. BUT IT MAY BE DRUG INTOLERANCE OR HYPERSENSTIVITY.*

*3.TRUE DRUG ALLERGY TEST IS IgE MEDIATED REACTION, IT DOES NOT HAPPEN THE FIRST TIME YOU TAKE A MEDICATION, MUCH MORE LIKELY TO OCCUR AFTER YOUR BODY HAS BEEN EXPOSED TO THE MEDICATION AT LEAST ONCE OR MORE, THE FIRST EXPOSURE ALLOWS BODY TO CREATE ANTIBODY AND MEMORY LYMPHOCYTE CELLS FOR THE ANTIGEN.*

*4.A DRUG ALLERGY IS MORE LIKELY TO DEVELOP WITH LARGE DOSES AND EXTENDED DOSES, STUDY SHOWS THAT ONLY 5% TO 10 % OF THESE REACTIONS ARE DUE TO ALLERGY DUE TO MEDICATION.*

TECHNOLOGY/METHOD: FOR IN VITRO DIAGNOSIS. THIS IS AN ENZYME IMMUNOASSAY (EIA) ON A NITRO-CELLULOSE MEMBRANE (ENZYME IMMUNOBLOT) FOR THE QUANTITATIVE DETERMINATION OF ALLSTANDARDS\*ERGEN SPECIFIC IgE ANTIBODIES IN HUMAN SERUM OR PLASMA.

QUALITY CONTROL:5 STANDARDS \*