



Immunosciences Lab., Inc.

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REFERRING PHYSICIAN

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Patient Name:

PARK-ALVAREZ, RUBEN

Patient I.D.:

DOB08062002

Blood Drawn

Processed

Reported

ISL No.

07/18/06

07/20/06

08/03/06

200714

TEST

RESULTS NORMAL ABNORMAL

REFERENCE RANGE

UNITS

*** QUANT. IMMUNOGLOBULIN ***

| | | | |
|---------------------|-------|----------|-------|
| IgG IMMUNOGLOBULINS | 979.5 | 639-1349 | mg/dl |
| IgM IMMUNOGLOBULINS | 60.2 | 56-352 | mg/dl |
| IgA IMMUNOGLOBULINS | 99.40 | 70-312 | mg/dl |

Quantification of different classes of serum immunoglobulin is helpful in evaluation of immunodeficiencies, hypergamma-globulinemias and monoclonal gammopathies. Increased levels of IgE are noted in patients with parasitic infection and in Type I allergic reaction.

*** These reference ranges are based on International Federation of Clinical Chemists standardization. Since the levels of immunoglobulins is age dependent, please consult the following table:

Serum IgG, IgM, and IgA immunoglobulins

| Age | IgG mg/dl | IgM mg/dl | IgA mg/dl |
|-----------|-----------------|--------------|--------------|
| 1 year | 679 (345-1213) | 93 (43-173) | 44 (14-106) |
| 3 year | 728 (441-1135) | 104 (47-200) | 66 (22-159) |
| 4-5 year | 780 (463-1236) | 99 (43-196) | 68 (25-125) |
| 6-8 year | 915 (633-1280) | 107 (48-207) | 90 (33-202) |
| 9-10 year | 1007 (608-1572) | 121 (52-242) | 113 (45-236) |
| Adult | 994 (639-1349) | 156 (56-352) | 171 (70-312) |

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