

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 11/4/1985
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Herpes Gestationis Factor (Complement-Fixing Basement Membrane Zone Antibody IgG)

ARUP test code 0092283

Herpes Gestationis Factor Ab IgG

See Note
IMMUNODERMATOLOGY REPORT

Specimen(s):
1. Serum specimen

Clinical/Diagnostic Information:
No clinical information provided.

DIAGNOSTIC INTERPRETATION

Possible pemphigoid (herpes) gestationis
(See Results and Comments)

RESULTS

Indirect Immunofluorescence

Herpes (pemphigoid) gestationis factor (complement-fixing IgG antibodies)

Negative, human split skin substrate with complement

Negative, human split skin substrate without complement

Reference Range:

Positive - Titer greater than or equal to 1:4
Borderline - Titer equal to 1:2
Negative - Titer less than 1:2

Basement Membrane Zone (BMZ) IgG Antibodies

IgG: Negative, human split skin substrate

Reference Range:

Positive (H) - Titer greater than 1:10
Borderline - Titer 1:10
Negative - Titer less than 1:10

Pattern on Human BMZ Split Skin:

IgG epidermal or epidermal-dermal combined BMZ antibody pattern = pemphigoid

IgG dermal BMZ antibody pattern = epidermolysis bullosa acquisita

(H = high/positive)

H=High, L=Low, *=Abnormal, C=Critical

Enzyme Linked Immunosorbent Assay (ELISA)

Bullous Pemphigoid (BP) 180 IgG Antibody

IgG BP 180 antibodies: 35 units (H)

Reference Range:

Positive (H) = Greater than or equal to 9 units

Negative = Less than 9 units

(H = high/increased)

COMMENTS

Specific

The increased IgG BP 180 antibody level in this testing panel supports the diagnosis of pemphigoid (herpes) gestationis; however, the complement-fixing basement membrane zone antibody testing (so-called herpes gestationis factor) is negative in this patient's serum. A small proportion of patients with herpes gestationis do not have detectable complement-fixing basement membrane zone antibodies (approximately 10 percent), and this profile also may reflect evolving, treated, or remitted disease. IgG BP 180 antibodies correlate with disease activity in bullous pemphigoid but may remain increased in patients with pemphigoid gestationis even with disease remission/resolution. Notably, however, up to 7 percent of individuals unaffected by pemphigoid, including some with other immunobullous diseases, have increased IgG BP 180 and/or IgG BP 230 antibody levels. The ELISA testing was repeated with similar findings in each assay.

Clinical correlation is needed. Recommend consideration for monitoring antibody profiles and levels to assess disease expression and activity.

If it would be helpful to discuss this patient's case with this report, contact ARUP Client Services at 1-800-242-2787 option 2 and ask and speak with the Immunodermatology Laboratory at the University of Utah regarding patient results.

General

Basement membrane zone antibodies without added complement are detected in up to 25 percent of patients with pemphigoid gestationis and with added complement in more than 90 percent. IgG BP 180 antibody levels by ELISA are increased in most patients with pemphigoid gestationis.

TESTING METHODS

Indirect Immunofluorescence

Herpes (pemphigoid) gestationis factor (complement-fixing IgG antibodies)

Testing for herpes gestationis factor (HGF) was performed on progressive two-fold dilutions of patients serum, layered on sections of human split skin substrate both with and without a fresh source of complement, and stained with fluorescein-conjugated anti-C3 and anti-IgG using Analyte Specific Reagents (ASRS). These tests were developed and their performance characteristics determined by the Immunodermatology Laboratory at the University of Utah. They have not been cleared or approved by the U.S. Food and Drug Administration. ASRS are used in many laboratory tests necessary for standard medical care and generally do not require FDA approval. These tests should not be regarded as investigational or for research only. [Immunofluorescence studies, two antibodies on one substrate with and without complement]

Enzyme Linked Immunosorbent Assay (ELISA)

H=High, L=Low, *=Abnormal, C=Critical

BP 180 IgG serum antibody levels determined by U.S. Food and Drug Administration-approved ELISAs (Mesacup, MBL International). [One ELISA repeated for results verification]

Kristin M Leiferman, MD
Immunodermatologist
Electronically signed 1/16/2019 12:08:24AM
Performed at: ARUP - University Hospital Laboratory 50 N. Medical Drive Salt Lake City UT 84132

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Herpes Gestationis Factor Ab IgG	19-011-402902	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical