

Client: Example Client ABC123
123 Test Drive

UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB

Sex:

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD

Collection Date: 01/01/2017 12:34

Desmoglein 1 and Desmoglein 3 (Pemphigus) Antibodies, IgG by ELISA

ARUP test code 0090649

Desmoglein 1 and 3 Antibodies, IgG

See Note

CLINICAL INFORMATION

Mouth lesions and patchy crusted skin lesions for months, rule out pemphigus.

Specimen Details

S22-IP0000521 - Serum; Collected: ; Received:

DIAGNOSTIC INTERPRETATION

Normal IgG desmoglein 1 and IgG desmoglein 3 antibody levels by ELISAs

(See Results and Comments including further testing recommendations)

RESULTS

Enzyme-Linked Immunosorbent Assay (ELISA)

Desmoglein (DSG) 1 and 3 IgG Antibodies

IgG desmoglein 1 antibody level: 5 U/mL

Reference Range:

Normal (negative) = Less than 14 U/mL

Borderline/Indeterminate = 14-20 U/mL

Increased (H) (positive) = Greater than 20 U/mL

IgG desmoglein 3 antibody level: 2 U/mL

Reference Range:

Normal (negative) = Less than 9 U/mL

Borderline/Indeterminate = 9-20 U/mL

Increased (H) (positive) = Greater than 20 U/mL

(H) = high/positive

U = antibody level in ELISA units

COMMENTS

Specific

These normal results for IgG desmoglein 1 and IgG desmoglein 3 antibodies by ELISA testing do not provide support for, but do not rule out, the diagnosis of pemphigus foliaceus or pemphigus vulgaris. These results do not rule out evolving or treated

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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 22-173-114978
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Page 1 of 3 | Printed: 11/22/2022 8:05:44 AM

pemphigus, pemphigus with antibodies to desmoglein epitopes that are not expressed in the tested ELISAs, non-desmoglein antibody pemphigus, or other immunobullous diseases including IgA pemphigus, pemphigoid, or linear IgA disease.

To further evaluate the immunopathological profile with respect to cell surface (pemphigus) antibodies, additional testing for IgG and IgA cell surface antibodies by indirect immunofluorescence can be performed on this specimen by contacting ARUP Client Services at 1-800-242-2787, option 2, with add-on test request(s) for:

- Cell Surface (Epithelial) Antibodies, IgG by IIF (ARUP test number 0090266); and/or
- Pemphigus Antibodies, IgA by IIF (ARUP test number 0092106)

And/or for basement membrane zone (pemphigoid, epidermolysis bullosa acquisita, linear IgA disease) antibodies:

- Basement Membrane Zone Antibody Panel (ARUP test number 3001410).

Detection, levels, and patterns of diagnostic antibodies may fluctuate with disease manifestations. Clinical correlation is needed, including with direct immunofluorescence findings on a biopsy specimen and treatment status, with consideration for monitoring serum antibody profiles by indirect immunofluorescence as well as antibody levels by ELISAs to aid in assessing disease expression and activity.

General

Pathogenic antibodies in serum from patients with pemphigus bind to desmogleins, calcium-dependent adhesion molecules in cell surface desmosomes; such antibodies are detected by enzyme-linked immunosorbent assay (ELISA). Specific reactivity to the type of desmoglein may be helpful in determining pemphigus subtypes; the IgG desmoglein 1 antibody level is increased in patients with pemphigus foliaceus, and the IgG desmoglein 3 antibody level, with or without an increased IgG desmoglein 1 antibody level, is predominantly increased in patients with pemphigus vulgaris. Overlapping expression with antibodies to both desmogleins 1 and 3 clinically is associated with both mucosal and skin lesions. ELISA testing for IgG desmoglein 1 and IgG desmoglein 3 antibodies is highly sensitive, with greater than 90 percent of patients with pemphigus showing increased levels of one or both antibodies, and IgG desmoglein antibody levels correlate with disease activity. However, patients with cell surface antibody-positive pemphigus by indirect immunofluorescence can have normal results on ELISA testing with cell surface antibodies to different desmoglein 1 and/or desmoglein 3 epitopes than displayed in tested ELISAs or to other adhesion molecules.

TESTING METHODS

Enzyme-Linked Immunosorbent Assay (ELISA)

IgG desmoglein 1 and IgG desmoglein 3 serum antibody levels determined by U.S. Food and Drug Administration (FDA)-approved ELISAs (Mesacup, MBL BION). [Two ELISAs]

Electronically signed by _____, MD, on
at _____
Performed At:

Medical Director: _____, MD
CLIA Number:

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EER Desmoglein 1 and 3 Antibodies, IgG

See Note

Authorized individuals can access the ARUP Enhanced Report using the following link:

https:

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Desmoglein 1 and 3 Antibodies, IgG	22-173-114978			
EER Desmoglein 1 and 3 Antibodies, IgG	22-173-114978			

END OF CHART

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Page 3 of 3 | Printed: 11/22/2022 8:05:44 AM