

Antinuclear Antibodies (ANA) and Anti-Neutrophil Cytoplasmic Antibodies (ANCA)

February 13, 2024

ENHANCED REPORTING

Effective February 20, 2024, Pacific Diagnostic Laboratories (PDL) will be updating the result reporting for ANCA, ANA pattern, as well as deactivating redundant tests. This notice is being provided as a summary of the changes.

Reason for the Change:

PDL is implementing modernized technology for Indirect Immunofluorescence tests (IIFT); also known as immunofluorescence assay (IFA). This technology includes a high throughput testing system and an automated microscope allowing for high-resolution images as well as computer-aided result interpretation.

Benefits:

- ➔ Alignment with International Consensus on ANA Patterns (ICAP) nomenclature: The changes will reflect the competent-level naming conventions recommended by ICAP.
- ➔ Improved standardization and consistency for IFA microscopy.
- ➔ Decreased turnaround time with use of the automation.

Impacted Tests:

- ANA Titer/Pattern by IFA which is a reflex for:
 - ANA by IFA reflex Titer/Pattern (LAB147)
 - ANA by IFA reflex Titer/Pattern reflex ENA (LAB9279)
- ANCA by IFA which is a part of the following panel:
 - ANCA Panel (LAB458)
 - Panel Includes: ANCA by IFA, MPO, PR3

ANCA Testing and Reporting Changes:

The ANCA Panel will now be reported out for each of the following ANCA patterns:

- P-ANCA, C-ANCA, ATYPICAL-ANCA, Myeloperoxidase (MPO), Proteinase 3 (PR3)

Additionally, to avoid false-positive P-ANCA tests, immunofluorescence assays will be routinely performed on both formalin- and ethanol-fixed substrates.

ANCA Test/Result field detail:

Test Name	Test Code	Order LOINC	Lab Code/Interface Code	
Anti-Neutrophil Cytoplasmic Antibodies (ANCA) Panel	1230100493	N/A	LAB458/ANCAP	
<i>Result name</i>	<i>Result Code</i>	<i>Result LOINC</i>	<i>CPT</i>	<i>CDM</i>
P-ANCA	1230018978	30539-1	86036	30200987
C-ANCA	1230018979	30538-3	86036	30200987
Atypical ANCA	1230018980	29641-8	86036	30200987
Myeloperoxidase, IgG (MPO)	1230011086	46266-3	83516	30100804
Proteinase 3, IgG (PR3)	1230011085	46267-1	83516	30100805

Reporting Update:

Antinuclear Antibodies (ANA) Pattern

February 13, 2024

Reporting Changes for ANA pattern:

TEST	UPDATED REPORTING	PREVIOUS REPORTING
ANA Pattern	Discrete Nuclear Dots	Atypical Speckled
	Dense Fine Speckled*	Homogeneous and Speckled
	Pleomorphic	Cell Cycle Dependent Speckled Cell Cycle Dependent Nucleolar
	Nuclear Envelope	Nuclear Membrane
	Speckled	SSA-Ro antibodies seen on HEP 2000 cells. Titer for SSA is not valid using HEP 2000 substrate. See ENA panel for quantitation
	Speckled	SSA-Ro antibodies seen on HEP 2000 cells. Titer for SSA is not valid using HEP 2000 substrate. Please order ENA screen if quantitation is desired. Serum will be held for one week.

**A subset of patients with Homogeneous and Speckled patterns will be reported as Dense Fine Speckled*

- ✦ **Benefit of the Dense Fine Speckled Pattern:** Reporting the Dense Fine Speckled pattern, which appears as a mixed Homogeneous and Speckled pattern, will allow physicians to better discriminate between ANA-positive healthy individuals and patients with autoimmune rheumatic diseases. The Dense Fine Speckled pattern is commonly found in high titers in apparently healthy individuals or in patients who do not have a systemic autoimmune rheumatic disease (SARD).
- ✦ **SSA pattern will now be reported as Speckled Pattern:** The ability to report the SSA pattern was specific to the previous technology. The presence of SS-A antibodies, under the new technology, will appear as a Speckled pattern. For specific antibody identification, please refer to ENA testing results.
- ✦ **Additional Pattern Information:** ICAP website at www.anapatterns.org
- ✦ **PDL Technical Specialist:** Ada Joyce Lauigan, CLS, MLS (ASCP) Phone: (805) 324-9809 Email: alauigan@sbch.org

Test Codes to be DEACTIVATED (effective 2/20/2023):

The following codes were identified to be redundant test offerings. Please be sure your office electronic medical record (EMR) and/or requisitions are updated.

DEACTIVATE	
Lab Code / Interface Code	Test Name
LAB10867	ANA w/Reflex
LAB10843	Antineutrophil Cytoplasmic Ab