

DATE:	30 October 2023
TO:	All Zones, Radiology and Endocrinology Health Care Providers
FROM:	Alberta Precision Laboratories, Clinical Biochemistry
RE:	Selective Adrenal Vein Sampling (SAVS) Order Set in Connect Care

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Message

- Updates to the test panel, timepoints, and reports for the SAVS Order Set in Connect Care are summarized in the Table below and demonstrated in the Appendix.
- A new tip sheet for ordering SAVS in Connect Care is also available by searching AHS Insite for “Venous Sampling Quick Start Guide”.

Parameter	Old build	New build
Test panel	<ul style="list-style-type: none"> • Cortisol and aldosterone. 	<ul style="list-style-type: none"> • Same as old build with addition of metanephrines and catecholamines.
Timepoints (min)	<ul style="list-style-type: none"> • Baseline minus 5, baseline, 5 min, and 20 min. 	<ul style="list-style-type: none"> • Minute-specific time points removed and replaced with: Baseline 0 (all tests), Timepoint 1 (all tests), Timepoint 2 (all tests), and Timepoint 3 (catecholamines only). • Numerical timepoints (and other descriptions) can be typed into the comment box.
Collection sites	<ul style="list-style-type: none"> • Right, Left, and Peripheral sites for all timepoints. • A, B, and C for Right at 20 min. 	<ul style="list-style-type: none"> • Removal of Right A, B, and C and replacement with Superselective 1, 2, and 3 for aldosterone and cortisol Left and Right.
Posture question	<ul style="list-style-type: none"> • No. 	<ul style="list-style-type: none"> • Yes, for metanephrines and catecholamines. • No interpretive comments will be reported.
Ordering format	<ul style="list-style-type: none"> • All tests were ordered for each timepoint and collection site at the same time. Tests not needed required manual cancelation. 	<ul style="list-style-type: none"> • Panel is a pick and choose format. • Default selection is for cortisol and aldosterone at Baseline and Timepoint 1. • Select and deselect option available.
Ratio calculation	<ul style="list-style-type: none"> • Not performed. 	<ul style="list-style-type: none"> • Not performed but will be considered in future optimization plans.

Background

- AVS with cosyntropin stimulation is used in the diagnosis and localization of primary hyperaldosteronism.
- The original Connect Care build was adopted from historical SAVS protocols used at the Royal Alexandra Hospital in Edmonton but did not fit with different protocols used in Calgary.
- A working group consisting of laboratorians, radiologists, endocrinologists, and nurses updated the Connect Care build to improve flexibility and meet the needs of different protocols.
- Results associated with the old build will remain in Chart Review.



Action Required

- Be aware of changes to the SAVS build including ordering workflow, test panels, timepoints, collection sites, ordering format, and reports.
- Refer to the “Venous Sampling Quick Start Guide” by searching AHS Insite.

Questions/Concerns

- Dr. Dennis Orton, Clinical Biochemist, Calgary, dennis.orton@aplabs.ca, 403-770-3219
- Dr. Isolde Seiden Long, Clinical Biochemist, Calgary, isolde.seidenlong@aplabs.ca, 403-944-3993
- Dr. Josh Raizman, Clinical Biochemist, Edmonton, josh.raizman@aplabs.ca, 780-718-2402
- DynaLIFE Edmonton, Clinical Chemist Team, clinical.chemists@dynamlife.ca, 780-451-3702 ext. 3572

Approved by

- Dr. Kareena Schnabl, Section Chief, Clinical Biochemistry, APL
- Dr. Michael Mengel, Medical Director, North Sector, APL
- Dr. Allison Venner, Associate Section Chief, Clinical Biochemistry, APL
- Dr. Dylan Pillai, Medical Director, South Sector, APL

Appendix

Default ordering selections

Selective Adrenal Vein Sampling -- Blood

Select Baseline orders:

- Aldosterone Left Baseline 0 min
- Aldosterone Right Baseline 0 min
- Aldosterone Peripheral Baseline 0 min
- Cortisol Left Baseline 0 min
- Cortisol Right Baseline 0 min
- Cortisol Peripheral Baseline 0 min
- Metanephrines Left Baseline 0 min
- Metanephrines Right Baseline 0 min
- Metanephrines Peripheral Baseline 0 min
- Catecholamines Left Baseline 0 min
- Catecholamines Right Baseline 0 min
- Catecholamines Peripheral Baseline 0 min

Select Timepoint 1 orders:

- Aldosterone Left Timepoint 1
- Aldosterone Right Timepoint 1
- Aldosterone Peripheral Timepoint 1
- Cortisol Left Timepoint 1
- Cortisol Right Timepoint 1
- Cortisol Peripheral Timepoint 1
- Metanephrines Left Timepoint 1
- Metanephrines Right Timepoint 1
- Metanephrines Peripheral Timepoint 1
- Catecholamines Left Timepoint 1
- Catecholamines Right Timepoint 1
- Catecholamines Peripheral Timepoint 1

Select Timepoint 2 orders:

- Aldosterone Left Timepoint 2
- Aldosterone Right Timepoint 2
- Aldosterone Peripheral Timepoint 2
- Cortisol Left Timepoint 2
- Cortisol Right Timepoint 2
- Cortisol Peripheral Timepoint 2
- Catecholamines Left Timepoint 2
- Catecholamines Right Timepoint 2
- Catecholamines Peripheral Timepoint 2

Select Timepoint 3 orders:

- Catecholamines Left Timepoint 3
- Catecholamines Right Timepoint 3
- Catecholamines Peripheral Timepoint 3

Select Superselective 1 orders:

- Aldosterone Left Superselective 1
- Aldosterone Right Superselective 1
- Cortisol Left Superselective 1
- Cortisol Right Superselective 1

Select Superselective 2 orders:

- Aldosterone Left Superselective 2
- Aldosterone Right Superselective 2
- Cortisol Left Superselective 2
- Cortisol Right Superselective 2

Select Superselective 3 orders:

- Aldosterone Left Superselective 3
- Aldosterone Right Superselective 3
- Cortisol Left Superselective 3
- Cortisol Right Superselective 3



Example report in Chart Review

SAVS - Cortisol Right Timepoint 2 -- Blood, Adrenal Vein Right

Order: 3234074 - Part of Panel Order 3234056

Status: Final result Visible to patient: No (scheduled for 06/10/2023 08:28)

0 Result Notes

Component	08:06
Ref Range & Units	
Cortisol Right Timepoint 2	202
nmol/L	
Resulting Agency	EDM DLH LAB

Narrative Performed by: [EDM DLH LAB](#)

Sample Description: 20 min
Specimen Collected: 06/10/2023 08:06

Last Resulted: 06/10/2023 08:28

Effective September 1, 2023, APL has become the sole provider of all public lab services in Alberta. As a result, community lab services formally provided by DynaLIFE Medical Labs will become the responsibility of Alberta Precision Labs (APL). This change impacts all zones.