

**Date:** May 4, 2016

**To:** South Zone West:  
Physicians, Nursing Staff and Laboratory Staff

**From:** AHS Laboratory Services South Zone West

**Re:** Decommissioning of Chemistry Analyzer

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## PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

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### Key Messages:

- Effective June 1, 2016, the Centaur Chemistry analyzer will be decommissioned.
- The current test menu consisting of CEA, Cortisol, PSA, Testosterone (total), Thyroid Peroxidase Antibody and Vitamin B12 will no longer be performed at Chinook Regional Hospital (Lethbridge).
- Testing will be referred to Calgary Laboratory Services (CLS).
- PSA results can vary depending on the testing procedure used, therefore a comment will be appended temporarily to PSA results performed at CLS:
  - *The assay used for PSA has changed from a Siemens Centaur to a Roche E170 analyzer. The concentration of PSA in a given specimen, as determined by assays from different manufacturers, can vary due to differences in assay methods and reagent specificity. Studies in our laboratories have shown that for samples less than 15 ug/L, the new Roche method produces results about 20% higher than those from the old Siemens method. At higher PSA levels, the results of the two assays are less discrepant. To monitor therapy, it may be advisable to re-baseline a patient with the new assay.*
- Anticipated turn around time for results will be 24-48 hours.
- Results will be available in Netcare and POSP.
- Reference intervals will be changing:

<b>Test</b>	<b>Units</b>	<b>Current Reference Interval</b>			<b>CLS Reference Interval</b>		
<b>CEA</b>	µg/L	<5.1			0.0 - 5.0		
<b>Cortisol</b>	nmol/L	CORTAM	120-620		CORTAM	170-500	
		CORTPM	85-460		CORTPM	75-285	
		Baseline	none		Random	none	
<b>PSA</b>	µg/L	0 days - 39y	<4.1		1 day - 49y	0.0-2.5	
		40-49y	<2.6		1 day - 49y	0.0-2.5	
		50-59y	<3.6		50-59y	0.0-3.5	
		60-69y	<4.6		60-69y	0.0-4.5	
		70-79y	<6.6		70-150y	0.0-6.5	
		> 80y	<4.1				
<b>Testosterone (total)</b>	nmol/L	<b>Age</b>	<b>Male</b>	<b>Female</b>	<b>Age</b>	<b>Male</b>	<b>Female</b>
		0 days - 15y	none	<1.0	1 day - 9y	0.0-1.0	0.0-1.0
		16y - 17y	none	0.5-2.0	10y - 17y Tanner Stage 1	0.0-1.0	0.0-1.0
		>18y	8.0-29.0	0.5-2.0	10y - 17y Tanner Stage 2	0.0-15.0	0.0-1.0
					10y - 17y Tanner Stage 3	2.2-27.0	0.0-1.0
					10y - 17y Tanner Stage 4	6.2-26.5	0.0-1.0
					10y - 17y Tanner Stage 5	6.5-29.0	0.2-1.3
					18y - 150y	8.0-29.0	0.5-2.0
<b>Thyroid Peroxidase Antibody</b>	kU/L	<61			0 - 34		
<b>Vitamin B12</b>	pmol/L	>150			155 - 700		

**Why this is important:**

- Test menu alignment with Red Deer, Grande Prairie and Medicine Hat.
- Cost avoidance to replace Capital Equipment.

**Action Required:**

- The Meditech Lab Information System has been updated to inactivate test codes that are no longer performed at Chinook Regional Hospital.
- The Laboratory Guide to Services has been updated.
- Order the referred out test codes as required:

Test	Inactivated Test Codes:	NEW Referred Out Test Codes:
TPO Antibody	TPOAB1	TPOABRO
Carcinoembryonic Antigen	CEA	CEARO
Prostate Specific Antigen	PSA	PSARO
Total Testosterone	TESTT	TESTRRO
Cortisol Stimulation Test	CORBASE COR30 COR60	CORBASERO1 COR30RO1 COR60RO1
Cortisol, Random		CORRRO
Cortisol, AM	CORA	CORARO
Cortisol, PM	CORP	CORPRO
Vitamin B12	B12	B12RO

- If **STAT** testing is required, please contact Lab Client Services 403-388-6057.

**Inquiries and feedback may be directed to:**

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**This bulletin has been reviewed and approved by:**

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