

## LAB ALERT

## Date: February 28, 2020 Test Update: Method and Test Code Changes for Serum Protein Electrophoresis

Dear Regional Pathology Services Clients,

In order to automate testing for serum protein testing, on Monday March 16<sup>th</sup> we will switch methodologies for detection and quantification of serum monoclonal proteins (paraproteins) from standard gel electrophoresis to Capillary Zone Electrophoresis (CZE) [Test Code: TPEP]. For reporting and patient management, paraprotein concentrations will be recorded in a numeric field that will allow trending over time.

At the same time, the lab will switch from serum immunofixation electrophoresis [Old Test Code: IFE] to Immunotyping (Immunosubtraction typing) by CZE [Test Code: ITS] for both initial confirmation and characterization of serum monoclonal protein isotypes. In the case of a new diagnosis in a patient with a small, possible paraprotein identified on serum CZE screening, immunotyping may be required to confirm the presence of the paraprotein for quantification purposes.

For ease of ordering, a Gammopathy Serum Panel which contains TPEP, ITS, GAM, and KAPLAM, [Test Code: GPS] was created for Regional Pathology clients.

The CZE method change will involve only serum protein studies. Urine protein electrophoresis [Test Code: UTPEP] and paraprotein isotyping (Bence-Jones proteins), [Test Code: IFEU] will continue to be performed by standard gel electrophoresis and immunofixation.

## Interface Build:

TPEP same	e order code and specimen r New results added	equirements.					
OrderCo de	<u>OrderName</u>	ResultCo de	<u>ResultName</u>	<u>ResultU</u> nits	LOI NC	<u>CPT</u>	
TPEP	PROTEIN/SERUM &ELECT	TPE	TOTAL PROTEIN/SERUM	g/dL	2885- 2	84155, 84165	
TPEP	PROTEIN/SERUM &ELECT	ALM	ALBUMIN SPE	g/dL	2862- 1		
TPEP	PROTEIN/SERUM &ELECT	ALF1	ALPHA 1 SPE	g/dL	2865- 4		
TPEP	PROTEIN/SERUM &ELECT	ALF2	ALPHA 2 SPE	g/dL	2868- 8		
TPEP	PROTEIN/SERUM &ELECT	BETA	BETA SPE	g/dL	2871- 2		
TPEP	PROTEIN/SERUM &ELECT	GAMA	GAMMA SPE	g/dL	2874- 6		
TPEP	PROTEIN/SERUM &ELECT	PARAP1	SERUM PARAPROTEIN 1	g/dL	3335 8-3		New result code*
TPEP	PROTEIN/SERUM &ELECT	PARAP2	SERUM PARAPROTEIN 1	g/dL	3335 8-3		New result code*
TPEP	PROTEIN/SERUM &ELECT	PARAP3	SERUM PARAPROTEIN 1	g/dL	3335 8-3		New result code*
TPEP	PROTEIN/SERUM &ELECT	INTR2	VISUAL INTERPRETAT		4929 6-7		

If you have any questions regarding this interface build please e -mail: rpsinterfacesupport@unmc.edu



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\*NOTE: These results codes will not always be resulted. For those interfaced clients whose EMR's match result slot, these should be made not required.

	ne order code and speci OTEU. New results add		ents. Remove results UA	ALM,UALF1,	UALF2, U	BETA,	
<u>OrderCo</u> <u>de</u>	OrderName	<u>ResultCo</u> <u>de</u>	<u>ResultName</u>	<u>ResultUni</u> <u>ts</u>	LOIN C	<u>CPT</u>	
UTPEP	PROTEIN/URINE &ELECT	MIN12	COLLECTION TIME(MIN)	minutes	13362- 9	84156, 84166	
UTPEP	PROTEIN/URINE &ELECT	VOL12	TOTAL VOLUME	mL	19153- 6		
UTPEP	PROTEIN/URINE &ELECT	UP	PROTEIN/URINE	mg/24 hr	2889-4		
UTPEP	PROTEIN/URINE &ELECT	UPARA1	URINE PARAPROTEIN 1	mg/24 hr	42484- 6		New result code*
UTPEP	PROTEIN/URINE &ELECT	UPARA2	URINE PARAPROTEIN 2	mg/24 hr	42484- 6		New result code*
UTPEP	PROTEIN/URINE &ELECT	UPARA3	URINE PARAPROTEIN 3	mg/24 hr	42484- 6		New result code*
UTPEP	PROTEIN/URINE &ELECT	INTR3	VISUAL INTERPRETAT		32210- 7		
UTPEP	PROTEIN/URINE &ELECT	PATHX	CONFIRMED BY		50595- 8		

\*NOTE: These results codes will not always be resulted. For those interfaced clients whose EMR's match result slot, these should be made not required.

Dele	te IFE Test Code. Add order code ITS for replacement of IFE.					
OrderC ode	<u>OrderName</u>	<u>ResultC</u> ode	<u>ResultName</u>	<u>ResultU</u> <u>nits</u>	LOIN C	<u>СР</u> Т
ITS	IMMUNOTYPING WITH	ITSB	IMMUNOTYPING			863
	INTERPRETATION, SERUM		SERUM			34

New orde	r code GPS which include the					
	O de Ne co	ODT				
OrderC ode	<u>OrderName</u>	<u>ResultC</u> ode	<u>ResultName</u>	<u>ResultU</u> nits	LOI NC	<u>CPT</u>
GPS	GAMMOPATHY PANEL SERUM	TPE	TOTAL PROTEIN/SERUM	g/dL	2885- 2	84155, 84165, 82784 X3, 83520 X2
GPS	GAMMOPATHY PANEL SERUM	ALM	ALBUMIN SPE	g/dL	2862- 1	
GPS	GAMMOPATHY PANEL SERUM	ALF1	ALPHA 1 SPE	g/dL	2865- 4	
GPS	GAMMOPATHY PANEL SERUM	ALF2	ALPHA 2 SPE	g/dL	2868- 8	
GPS	GAMMOPATHY PANEL SERUM	BETA	BETA SPE	g/dL	2871- 2	
GPS	GAMMOPATHY PANEL SERUM	GAMA	GAMMA SPE	g/dL	2874- 6	
GPS	GAMMOPATHY PANEL SERUM	PARAP 1	SERUM PARAPROTEIN 1	g/dL	3335 8-3	



REGIONAL PATHOLOGY SERVICES

GPS	GAMMOPATHY	PARAP	SERUM	g/dL	3335	
	PANEL SERUM	2	PARAPROTEIN 1	-	8-3	
GPS	GAMMOPATHY	PARAP	SERUM	g/dL	3335	
	PANEL SERUM	3	PARAPROTEIN 1		8-3	
GPS	GAMMOPATHY	INTR2	VISUAL		4929	
	PANEL SERUM		INTERPRETAT		6-7	
GPS	GAMMOPATHY	ITSB	IMMUNOTYPING			
	PANEL SERUM		SERUM			
GPS	GAMMOPATHY	IGG	IGG QUANT	mg/dL	2465-	
	PANEL SERUM		ONLY/SERUM		3	
GPS	GAMMOPATHY	IGA	IGA QUANT	mg/dL	2458-	
	PANEL SERUM		ONLY/SERUM		8	
GPS	GAMMOPATHY	IGM	IGM QUANT	mg/dL	2472-	
	PANEL SERUM		ONLY/SERUM		9	
GPS	GAMMOPATHY	KAPQN	KAPPA QNT FREE	mg/L	3691	
	PANEL SERUM	Т	LT CH		6-5	
GPS	GAMMOPATHY	LAMQ	LAMBDA QNT	mg/L	3394	
	PANEL SERUM	NT	FREE LT CH		4-0	
GPS	GAMMOPATHY	KLRAT	K:L FREE LT CH		4837	
	PANEL SERUM	0	RATIO		8-4	

If you have any questions or issues with these changes please contact client services at 402-559-6420 and ask to speak with one of the client coordinators.