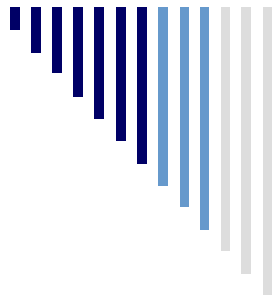


Where Are We Today: Results and Data Collection Techniques

Region 4 Sample Exchange
Meeting

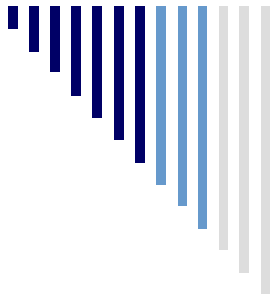
Lansing, MI

June 27, 2006



How Good Are We?

- This presentation will address the areas of:
 - Sample Exchange—presenting answers, addressing questions and finding solutions
 - Proper form submission-details and determination
-

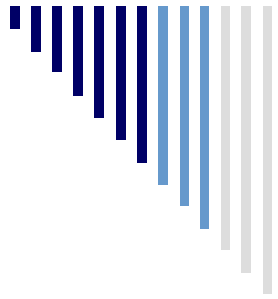


Summary to date

#State participating: 6/7

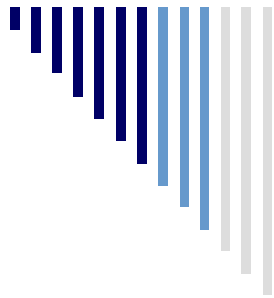
Participation by state:

# Submitted	#Received
IL: 0	4
IN: 3	3
KY: 1	3
MI: 1	6
MN: 6	2
OH: 11	2
WI: 2	3

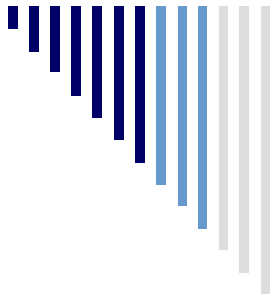


DX Correlation

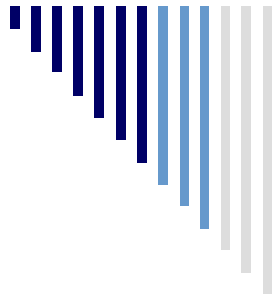
- 94% of cases received correlated with submitter's DX.
 - One case with mildly high Phe was normal by receiving institution.
 - 90% of primary analytes within 10-15% of submitters values
-



					C4 2.25;1.4 C4/C2 .103; .06
Indiana	200603070649		SCAD	C4 2.58; 1.4	C4/C3 1.72; .7 C4/C8 24.2; 18.0
Indiana	200604120576			Phe: 1,240; 136.0 PHE and TYR 23.2; 2.8	phe 1360; 134 cutoff tyr 48; 330 cutoff
Indiana	200605241001	CPT-I	CPT-1	C0 MRM 296; C10 .678 ; C2 MRM 102.0; C3DC MRM .582;	C0 130(60); C0/ (C16+C18):83(50)
Kentucky	200605410107	3MCC	3MCC		C5OH 2.68; .9cutoff C8 .12; .43 cutoff C6DC .09; .40 cutoff C5:1 .07; .42 cutoff C3 1.64; 8.43 cutoff
Michigan	20060900224	Argininosuccinic Aciduria		A	C3 12.60; 5.60
Minnesota	174-740(001)	MCAD	MCAD*		C8 6.5; .70 cutoff
Minnesota	175-090(002)	MCAD	MCAD*		C6 1.51;.30 cutoff C10 1.22; .34cutoff C8 14.0; .50 cutoff C8/C10 11.48; 10.00 cutoff
Minnesota	167-937	GA-1			C5DC 3.06; .41 cutoff C8 .037; .43 cutoff C5OH .263; .75 cutoff C16 8,37; 4.08 cutoff
Minnesota	170-593	C3 (false positive)	C3*		C3 21.2; 8.43 cutoff C16 4.89; 8.37 cutoff C2 67.9; 80.0 cutoff C4DC .79; 1.51 cutoff
Minnesota	176-574(004)	VLCAD	VLCAD*		Tyr 484; 298 cutoff C10 .695; .66 cutoff C12 .958; .86 C14 3.87; .94 cutoff C14:2 .539; .39 cutoff C16 14.8; 8.0 cutoff C16OH .307; .3 cutoff C16:1 1.43; .86 cutoff C18 3.6; 2.55 cutoff C18:1 4.28; 3.45
Minnesota	175-161(003)	VLCAD			
					C3 24.0; 7.0 C3/C0 .533; .15
Ohio	06-031-10-01	Propionic Acidemia	Propionic Acidemia*	C3 27.07; 5.6 cutoff	C3:C16 7.6;3.8 C3:C2 1.71; .2



Ohio	06-04702-23	MCAD		C8 .90; .70 cutoff C5OH .17; .60 cutoff C5DC .03; .09 cutoff C5 .09; 1.0 cutoff C4 .21; 2.5 cutoff	C8 .87; .50 cutoff C8/C10 7.96; 6.0
Ohio	06-037-02-32	MCAD	MCAD	C8 31.73; .7 cutoff	C8 21.4; .35 cutoff C6 2.31; .24 cutoff C10 1.33; .42 cutoff C10:1 .664; .32 cutoff C8/C10 16.1; 5.0 cutoff C8/C2 1.03; .04 cutoff
Ohio	06-068-05-50	Methylmalonic Acidemia	C	C8 .09; .70 cutoff C5OH .33; .60 cutoff C5DC .013; .09 cutoff C5 .50; 1.0 cutoff C4 .75; 2.5 cutoff	C
Ohio	06-038-01-59	MCAD	MCAD*	C8 30.05; .7 cutoff	C8 18.0; .43 cutoff C6 3.0; .61 cutoff C10 1.9; .72 cutoff C2 19.8; 80 cutoff C10:1 .76; .56cutoff
Ohio	06-040-01-18	Propionic Acidemia	Propionic Acidemia*	C3 15.936; 5.6 cutoff	C3 15.58; 6.92 cutoff C3/C2 1.04; .20 cutoff C16-OH .42; .18 cutoff
Ohio	06-020-05-56	Hyperphenylalaninemia	Hyperphenylalaninemia*	PHE 130.99; 120 cutoff	Phe117; 150 cutoff
Ohio	06-070-05-38	Hyperphenylalaninemia		ARG 16.08; 238 cutoff C1T 6.69; 72 cutoff VAL 55.72; 340 cutoff MET 18.90; 82 cutoff PHE 214.5; 120 cutoff	ARG 10 C1T 14 Val 86 MET 33 Phe 285 TYR 70 LEU 109
Ohio	06-038-04-55	Phenylketonuria	Phenylketonuria*	PHE 201.39; 120 cutoff	PHE 190.06; Phe:Tyr 5.23 Phe .04
Ohio	06-082-02-46	Argininosuccinic Aciduria	ASA	ARG 12.44; 238 cutoff C1T 77.09; 72 cutoff VAL 98.27; cutoff 340 MET 16.72; 82 cutoff PHE 48.98; 120 cutoff	Cit 57; Cit/Arg 10.8;ASA 1.5
Ohio	06-031-05-46	MCAD	B	C8 2.294; 07cutoff	B
Ohio	06-065-01-59	Phenylketonuria	B	PHE 339.49; 120 cutoff	B
Wisconsin	wisc-06-08	SCAD	B	C4 1.72; 1.20 cutoff C4/C2 .10; .08 cutoff	B
Wisconsin	wisc-06-09	MCAD	MCAD	C6 5.55; .30 cutoff C10:1 .73; .40 cutoff C8/C10 12.95; 10.00 cutoff C8 30.98; .50 cutoff C10 2.36; .34 cutoff	C8/C1011.9; 5.2 cutoff C10 2.23; .66 cutoff C10:1 1.03' .5 cutoff C3DC .78; .45 cutoff C3DC MRM 1.14; .45 C4 1.98; 1.4 cutoff C5DC .676; .42 cutoff C5DC MRM.985; .42 cutoff C6 7.26; .47 cutoff



Form submission

- Submitters

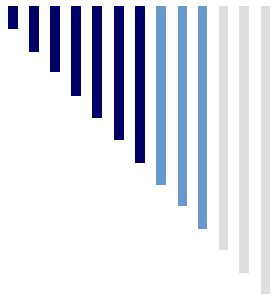
- Submitter must include values and diagnosis to the data banker (Kentucky) ONLY
 - Do NOT send form with diagnosis to the receiving site. The area on the form should be blank
-



Form Submission continued

Receiving Sites

- Place results under section of form labeled “Results Information (initial testing)”
 - Under Sender Information, please place your contact information
 - Can be in box or below box if sender information is filled
-



Region 4 - MS/MS WORKING GROUP

BLOOD SPOT EXCHANGE SUBMISSION FORM

(Please use one form per sample)

FROM		TO		Test to be performed		Sender Sample ID#	
Illinois	<input type="checkbox"/>	Illinois	<input type="checkbox"/>	Acylcarnitines	<input checked="" type="checkbox"/>	MN'S ID	
Indiana	<input type="checkbox"/>	Indiana	<input type="checkbox"/>	Amino acids	<input checked="" type="checkbox"/>	Date sent	
Kentucky	<input type="checkbox"/>	Kentucky	<input checked="" type="checkbox"/>	Steroids (CAH)	<input type="checkbox"/>	00/00/00	
Michigan	<input type="checkbox"/>	Michigan	<input type="checkbox"/>	Succinylacetone	<input type="checkbox"/>	Receiver ID#	
Minnesota	<input checked="" type="checkbox"/>	Minnesota	<input type="checkbox"/>	Methylmalonic acid	<input type="checkbox"/>	KY(NAME OF STATE)	
Ohio	<input type="checkbox"/>	Ohio	<input type="checkbox"/>	Homocysteine	<input type="checkbox"/>	Date received	
Wisconsin	<input type="checkbox"/>	Wisconsin	<input type="checkbox"/>		<input type="checkbox"/>	00/00/00	
OTHER		OTHER		No. of punches #			
				Size <input checked="" type="checkbox"/> 3/16" <input type="checkbox"/> 1/8"			

SPECIMEN	PATIENT	RESULTS
Date of collection MN's date	Birth weight (g) MN's DEMO.	True positive <input checked="" type="checkbox"/> Specify results below (optional) Dx SCAD (KY'S RESULT)
Age at time of collection <input type="checkbox"/> <24h <input type="checkbox"/> 1-7d <input type="checkbox"/> >7d	Gestational age (weeks)	False positive <input type="checkbox"/> Specify results below (optional) Dx
First specimen Second specimen Third specimen	Other relevant information	Undetermined <input type="checkbox"/>

RESULTS INFORMATION (INITIAL TESTING)

(TO BE COMPLETED BY RECEIVING SITE)

Analyte	Value	Cutoff	Analyte	Value	Cutoff	Analyte	Value	Cutoff
C4	x	x	C4/C3	x	x			

DIFFERENTIAL DIAGNOSIS OR ADDITIONAL DIAGNOSIS TO BE ADDED HERE:

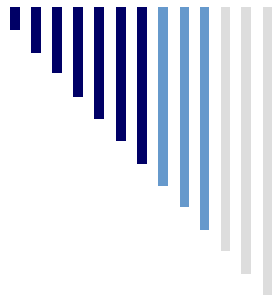
SENDER INFORMATION

NAME	PHONE/FAX	E-MAIL
KY'S CONTACT	P	
	F	



Form Submission continued

- Both Submitter and Receiving Site
 - Send actual panels/analytes attached with sample exchange form to data banker (Kentucky)
-



Results

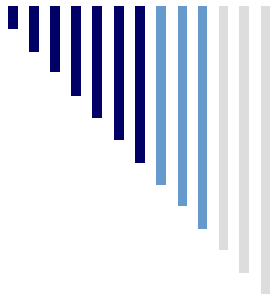
- Web Site: Sample Exchange Page
-Under Construction

 - One State in non-participatory status as
“Submitter and Active Recipient”
-



Additional Participants

- Update from Region 3
 - Sharing Sample Exchange Protocol
 - Adding new states
(Dr. Rinaldo)
-



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