

TPN Policy Questions for NBS Programs

Questions	Responses				Comments
Do you have a specific place on your NBS collection form where you ask about TPN? If so, how is it asked?	Yes... Check off all feeding type options that apply, of which TPN is a choice. IA, IN, MN, MO, NE, NJ, TX	Yes... Question asked, "Child on TPN now?" WI	No NC		
Do you assign an "UNSAT", "NO RESULT", "INCONCLUSIVE", or Other comment to TPN fed infants?	Unsatisfactory NJ	No Result MO, WI	Inconclusive	Other... Results suggest TPN, Possible TPN, Release the results as Normal, Borderline, or Abnormal. IA, IN, MN, NC, NE, T X	
If reported as Unsat, No Result, or Inconclusive do you ever report any result values?	Yes MN, MO, NJ, WI	No	Not Applicable IA, IN, NC, NE,		MO usually reports results for the fatty acids and organic acids. AA's reported only when not typical TPN profile. NJ reports if profile not typical of TPN and ratios not typical. MN always reports quantitative results.
Are these comments for all infants where the NBS form is marked "TPN"?	Yes	No MN, MO, NE, NJ, TX, WI.	Not Applicable IA, IN, NC		

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Are these comments only for infants with inconclusive or abnormal results indicating TPN?	Yes MN, MO, NE, NJ, TX, WI	No	Not Applicable IA, IN, NC		
Do you request a repeat newborn screening specimen for infants displaying TPN interference, and if so, what does this comment say?	Yes IA, IN, MO, NC, NE, NJ, TX, WI	No MN (test plasma AA's at discharge, at least 48 hrs after TPN is discontinued).			Elevations may be from TPN. Repeat after TPN discontinued. Dietary artifact due to TPN, a finding of no clinical significance. * See NE comment below. TPN feeding invalidated the AA analysis. Repeat 48 hours after TPN has been discontinued.
How do you handle specimens that display TPN interference, but TPN feeding was not indicated on the patient form?	Verify TPN feeding with NICU by phone IA, IN, NE, WI	No phone calls, just report as TPN fed MN, MO, NJ, TX	Not Applicable NC		

* The amino acid profile showed mild elevations of many amino acids including Phe, Leu, and Met. A premature infant given supplemental intravenous nutrition can produce such a profile. Clinical information provided by submitter indicates that the child was receiving supplemental intravenous nutrition at the time of specimen collection. We recommend a repeat dried filter paper specimen in 2 weeks or 2 days after discontinuation of supplemental intravenous nutrition feeding, whichever is first.

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Do you know for your "initial/first specimens" what percentage of your TPN fed infants receive a normal screen for MS/MS testing?	<p style="text-align: center;">Yes</p> <p style="text-align: center;">MO (90 %)</p>	<p style="text-align: center;">No</p> <p style="text-align: center;">IA, IN, MN, NC, NE, NJ, TX, WI</p>			Missouri has found that 90% of TPN fed infants still do not have amino acid levels above the cutoffs.
Have you had any TPN fed infants that turned out to be true positives for an MS/MS disorder, and If so, was the result interpretation unmistakable, ambiguous, or somewhere in between?	<p style="text-align: center;">Yes...Unmistakable</p> <p style="text-align: center;">IA, MO, NE</p>	<p style="text-align: center;">No</p> <p style="text-align: center;">IN, MN, NC, NJ</p>	<p style="text-align: center;">Not sure</p> <p style="text-align: center;">TX</p>		IA and MO each had a PKU
Does your program have guidelines for NICU's concerning collection of NBS samples from infants receiving TPN?	<p style="text-align: center;">Yes</p> <p style="text-align: center;">MN, MO, NC, TX</p>	<p style="text-align: center;">No</p> <p style="text-align: center;">IN, NE, NJ,</p>	<p style="text-align: center;">Being developed</p> <p style="text-align: center;">IA</p>	<p style="text-align: center;">Yes...Indirectly</p> <p>WI (All NICU infants are advised to be repeat tested)</p>	MN...< 1,800 g infants are tested three times (2, 14, and 28 days). MO...collect at 24 to 48 hours of age or before transfusion. NC...The blood sample should not be obtained from a central line. TX...24 to 48 hours of age.
Are these guidelines for all newborns on TPN or only those who have an inconclusive or abnormal result and need a repeat screen?	<p style="text-align: center;">All TPN infants</p>	<p style="text-align: center;">Only abnormal</p>	<p style="text-align: center;">Not Applicable</p>		<p style="text-align: center;">TX has mandatory repeat screening on all newborns. Premature infants with abnormal results should be rescreened at time of discharge or when requested by the NBS</p>

MN, MO, NC, TX, WI

IN, NE, NJ, IA

program, whichever comes
first.