

Newborn Blood Bank Workup and Cord Blood Evaluation - HDN Result Comments

Maternal Clinically Significant Antibody(ies)	ABO Group Incompatibility	Neonatal DAT result	Antigen Typing result	Eluate	Result comment(s) to be added to the HDN Test Code
No**	Yes	Neg	NI	NI	NI
		Pos	NI	NI*	HDABO and HDNP
	No	Neg	NI	NI	NI
		Pos	NI	Yes	Eluate comment ID and HDN comment ID
WRM, WkU, DNK, or Antibody to rare antigen – antisera unavailable	Yes	Neg	NI	NI	NI or HDAUN, if indicated
		Pos	NI	Yes	HDABO, Eluate comment ID, and HDNP, HDAUN, if indicated
	No	Neg	NI	NI	NI or HDAUN, if indicated
		Pos	NI	Yes	Eluate comment ID, HDN comment ID, and HDAUN, if indicated
D Passive (in current sample or received RhIG in previous 4 months)	Yes	Pos	D - Pos	NI*	HDABO, HDAP (free text RhIG administered on [date]), and HDNP
			D - Neg	NI*	HDABO and HDNP
		Neg	Any	NI	NI
	No	Pos	D - Pos	NI*	HDAP (free text passive Anti-D)
			D - Neg	Yes	Eluate comment ID and HDN Interpretation comment ID
		Neg	Any	NI	NI
Yes (see note below regarding blocking***)	Yes	Neg	Neg	NI	HDNA and HDNN
			Pos	NI	HDAP (free text antibody specificity) and HDNP
		Pos – Antigen typing requires IAT	NI	Yes	HDAUN (free text antibody specificity), HDABO, HDNP, and Eluate comment ID
		Pos – Antigen typing does not require IAT	Pos	Yes	HDAP (free text antibody specificity), HDABO, and HDNP
		Pos – Antigen typing does not require IAT	Neg	Yes	HDNA (free text antibody specificity), HDABO, and HDNP
	No	Neg	Pos	NI	HDAP (free text antibody specificity)
			Neg	NI	HDNA and HDNN
		Pos – Antigen typing requires IAT	NI	Yes	HDAUN (free text antibody specificity), HDNP, and Eluate comment ID
		Pos – Antigen typing does not require IAT	Pos	Yes	HDAP (free text antibody specificity) and HDNP
		Pos – Antigen typing does not require IAT	Neg	Yes	HDNA (free text antibody specificity), HDNP, and Eluate comment ID

*If the DAT is 3+ or greater and the presumed indication is ABO Incompatibility or Passive Anti-D, consult with a BB Medical Director regarding eligibility for Eluate testing.

**The following maternal antibodies are not routinely considered clinically significant: Anti-M, Anti-Le^a, Anti-Le^b, Lu^a, Anti-I, Anti-H, Anti-P1, Anti-A₁, a cold reacting antibody of unknown specificity, a cold autoantibody (CLD), or reactions due to reagent preservatives (NSG).

***Anti-D and Anti-K have the potential to cause blocking. Blocking may occur when the mother has Anti-D or Anti-K, and the neonatal RBCs become heavily coated with maternal antibody. Testing of the neonatal RBCs may yield a false negative result. If eluate results indicate Anti-D or Anti-Kell, as applicable, result comment HDAAP is added.

Refer to Transfusion Medicine Policy, *Newborn Blood Bank Work Up and Cord Blood Evaluation – Blood Bank*

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Description of Result Comment IDs used for HDN Test Code

Category	For Use in the Following Scenarios	Result Comment ID	Description of Code
Antigen Typing	Presence of maternal clinically significant antibody	HDNA	Infant is negative for the antigen corresponding to the maternal antibody [free text antibody specificity].
		HDAP	Infant Antigen Pos for Maternal Antibody [free text antibody specificity]
		HDAUN	Infant RBCs cannot be typed for antigen to maternal antibody [free text antibody specificity]
		HDAAP	Neonate RBCs assumed to be antigen positive [free text “for antigen corresponding to maternal anti-____, based on eluate results.”]
Eluate	An eluate is completed. Note: These comments may be added to the Eluate and/or the HDN test	HDENR	Neonate RBC eluate is non-reactive with test RBCs.
		HDENS	Neonate RBC eluate is non-specific with test RBCs.
		HDESM	Neonate RBC eluate has same specificity as maternal ab [free text of the maternal antibody specificity]
ABO Incompatibility	When the maternal plasma contains ABO antibodies that correspond to ABO antigens present on the neonatal RBCs	HDABO	Infant is ABO incompatible with maternal plasma
HDN Interpretation	DAT is positive and/or there is a maternal clinically significant antibody	HDNN	No serologic evidence for HDN.
		HDNP	Serologic evidence for potential HDN; clinical correlation required.