

UAC Catheter - Approximate mL fluid fill volumes : 2.5 Fr. = 0.10mL 3.5 Fr. = 0.16mL 5.0 Fr. = 0.22mL

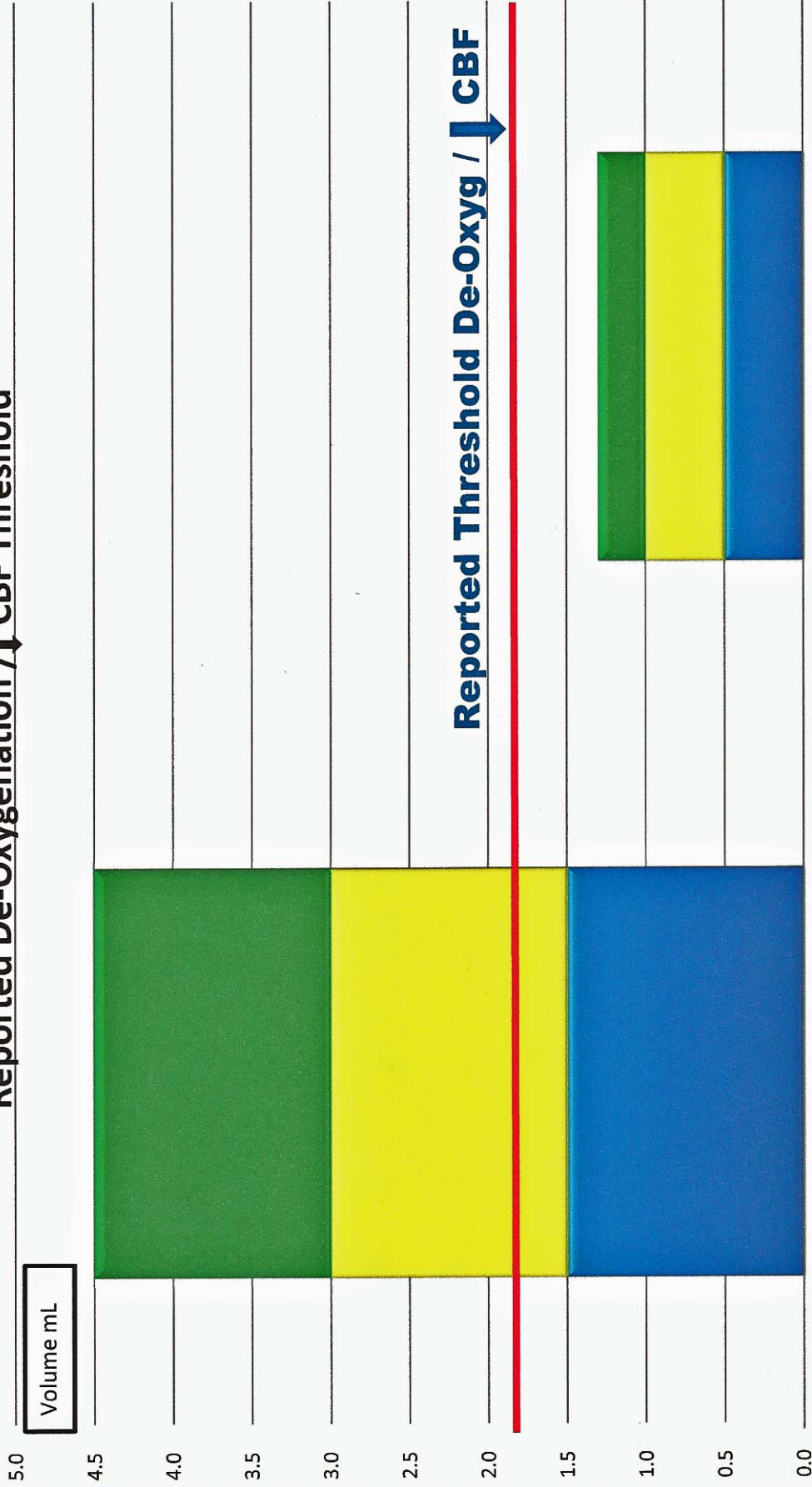
UAC Catheter - HUMMI approx. mL withholding volume : 2.5 Fr. = 0.30mL 3.5 Fr. = 0.40mL 5.0 Fr. = 0.50mL

Neonate's Weight Grams / Ounces and Approximate Total Blood Volume	CURRENT NICU PRACTICE Approximate Fluid Volume (mL) Movement Per Blood Draw		HUMMI mL Fluid Volume Movement Per Blood Draw	Clinical Improvement
	1.50	mL Blood Holding Withdrawn	0.50	HUMMI Micro-Draw Blood Transfer Device
	1.50	mL Blood Holding Returned	0.50	
	1.50	mL Line Flush Volume	0.30	
4.50	Total ML Fluid Volume Movement	1.30	HUMMI vs. CURRENT NICU PRACTICE 71.1% Overall Fluid Volume Movement Reduction	

Grams	Pounds / Ounces <small>(1GM - 0.036 oz)</small>	Approx. mL Total Blood Volume	CURRENT NICU Total Fluid mL Volume Movement	CURRENT NICU Percent of Neonate's Total Blood Volume	HUMMI Total Fluid mL Volume Movement	HUMMI Percent Neonate's Total Blood Volume	HUMMI Neonate's Total Body Fluid mL Volume Movement Reduction	HUMMI Fluid mL Volume Movement Reduction
1,000	2.25 lb = 36 oz	75.0	4.50	6.0%	1.30	1.7%	4.3%	3.20
950	2.14 lb = 34.2 oz	71.3	4.50	6.3%	1.30	1.8%	4.5%	3.20
900	2.03 lb = 32.4 oz	67.5	4.50	6.7%	1.30	1.9%	4.7%	3.20
850	1.91 lb = 30.6 oz	63.8	4.50	7.1%	1.30	2.0%	5.0%	3.20
800	1.80 lb = 28.8 oz	60.0	4.50	7.5%	1.30	2.2%	5.3%	3.20
750	1.69 lb = 27.0 oz	56.3	4.50	8.0%	1.30	2.3%	5.7%	3.20
700	1.58 lb = 25.2 oz	52.5	4.50	8.6%	1.30	2.5%	6.1%	3.20
650	1.46 lb = 23.4 oz	48.8	4.50	9.2%	1.30	2.7%	6.6%	3.20
600	1.35 lb = 21.6 oz	45.0	4.50	10.0%	1.30	2.9%	7.1%	3.20
550	1.24 lb = 19.8 oz	41.3	4.50	10.9%	1.30	3.2%	7.8%	3.20
500	1.13 lb = 18.0 oz	37.5	4.50	12.0%	1.30	3.5%	8.5%	3.20
450	1.13 lb = 18.0 oz	33.8	4.50	13.3%	1.30	3.9%	9.5%	3.20
400	0.90 lb = 14.4 oz	30.0	4.50	15.0%	1.30	4.3%	10.7%	3.20
375	0.84 lb = 13.5 oz	28.1	4.50	16.0%	1.30	4.6%	11.4%	3.20
350	0.79 lb = 12.6 oz	26.3	4.50	17.1%	1.30	5.0%	12.2%	3.20

Single Blood Draw UAC

Current Method vs. Hummi Micro Draw Total Volumes & Reported De-Oxygenation / \downarrow CBF Threshold



Hospital Protocol 4.5mL

Hummi Protocol 1.3 mL

■ Waste / Holding Volume - Withdrawn

■ Waste / Holding Volume - Re-Infused

■ Flush Volume

*1 Acta Paediatrica, 2006;95:68-73 Roll, Huning, Kaunicke, Krug & Horsch