

ROYAL HOSPITAL FOR WOMEN	APPROVED: NCC QUALITY COMMITTEE
DEPARTMENT MANUAL: DIVISION OF NEWBORN SERVICES	DATE: 12th May 2014

**NEWBORN USE ONLY
GIVEN ON DOCTORS ORDERS ONLY**

HIGHER DEXTROSE CONCENTRATION SOLUTION PREPARATION

To make the required concentration of dextrose from a standard solution the following table is used for a 100ml burette using 50% dextrose as the additive solution.

ADD THE VOLUME OF 50% DEXTROSE TO THE VOLUME OF 10% DEXTROSE TO MAKE UP A TOTAL OF 100 ML		
DESIRED DEXTROSE CONC.	VOLUME OF 10% DEXTROSE	VOLUME OF 50% DEXTROSE
12%	95 ml	5 ml
12.5%	93.75 ml	6.25 ml
14%	90 ml	10 ml
16%	85 ml	15 ml
18%	80 ml	20 ml
20%	75 ml	25 ml

ADD THE VOLUME OF 50% DEXTROSE TO THE VOLUME OF 2.5% DEXTROSE TO MAKE UP A TOTAL OF 100 ML		
DESIRED DEXTROSE CONC.	VOLUME OF 2.5% DEXTROSE	VOLUME OF 50% DEXTROSE
7.5%	89.5 ml	10.5 ml
10%	83.5 ml	16.5 ml
12%	80 ml	20 ml
12.5%	79 ml	21 ml
14%	75.8 ml	24.2 ml
16%	71 ml	29 ml
18%	67.5 ml	32.5 ml
20%	63.5 ml	36.5 ml

ADD THE VOLUME OF 50% DEXTROSE TO THE VOLUME OF 3.75% DEXTROSE TO MAKE UP A TOTAL OF 100 ML		
DESIRED DEXTROSE CONC.	VOLUME OF 3.75% DEXTROSE	VOLUME OF 50% DEXTROSE
7.5%	91.8 ml	8.2 ml
10%	86.3 ml	13.7 ml
12%	82 ml	18 ml
12.5%	81 ml	19 ml
14%	78 ml	22 ml
16%	73.5 ml	26.5 ml
18%	69 ml	31 ml
20%	65 ml	35 ml

ADD THE VOLUME OF 50% DEXTROSE TO THE VOLUME OF NO DEXTROSE (0.9% NaCl, 0.45% NaCl) TO MAKE UP A TOTAL OF 100 ML		
DESIRED DEXTROSE CONC.	VOLUME OF NO DEXTROSE	VOLUME OF 50% DEXTROSE
7.5%	85 ml	15 ml
10%	80 ml	20 ml
12%	76 ml	24 ml
12.5%	75 ml	25 ml
14%	72 ml	28 ml
16%	68 ml	32 ml
18%	64 ml	36 ml
20%	60 ml	40 ml