

* N Q M F N F O U J O H . F E J D B M 1 S B D U J D F 1 V M N P O B # P S O , J E T

Shubham Gupta*

Department of Neonatal and Pediatric, School of Medicine, India

Abstract

Very preterm infants often require some form of respiratory support to facilitate the cardiopulmonary transition that
RFFXUV LQ WKH UUVW KRXUV RI OLIH &XUUHQW UHVXVFLWDWLRQ JXLGHOLQHV LG
VXUYLYDO LV HVWDEOLVKLQJ DGHTXDWXO OXQJ LQADWLRQ DQG YHQWLODWLRQ LP
UHVLGXDO FDSDFLW\ +RZHYHU WKH UHVSLUDWRU\ DVVLVWDQFH SURYLGHG LV DG
RI EURQFKRSXOPRQDU\ G\VSODVLD &RQYHUVHO\ WKH ULVNV DVVRFLDWHG ZLWK
JHVWDWLRQDO DJH 3UHPDWXUH LQIDQWV DUH ERUQ ZLWK HDUO\ OXQJ GHYHORS
IURP PHFKDQLFDO YHQWLODWLRQ \$SSURDFKHV DLPHG DW UHGXFQJ WKH JOREDO
OXQJ SURWHFWLYH YHQWLODWLRQ VWUDWHJLHV EHLQQLQJ ZLWK WKH QHZERUQ
WRGD\ PXVW EH DEOH WR DGPLQLVWHU ERWK LQYDVLVH DQG QRQ LQYDVLVH UHVS
UDQJLQJ IURP DFXWH WR FKURQLF FRQGLWLRQV <RX VHDFKHG 3XE0HG IRU DUW
2XU QDUUDWLYH UHYLHZ SURYLGHV DQ HYLGHQFH EDVHG RYHUYLHZ RI UHVSLUDW
GHOLYHU\ URRP WR 1, & 8 UHVSLUDWRU\ PDQDJHPHQW LQ WKH DFXWH SKDVH RI Q
LQFOXGHV D VHFWRU RQ HIRJHQRXV VXUIDFWDQW WKHUDS\

*Corresponding author: 6KXEKDP *XSWD 'HSDUWPHQW RI 1HRQ
6FKRRO RI 0HGLFLQH ,QGLD (PDLO JXSWDUU#JPDLO

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Copyright: © *XSWD 7 6LV LV DQ RSHQ DFFHVV DUWLFOH
WHUPV RI WKH &PRJLV @pJHQR\$0P`À0,PSO@GHH"Dc`À0,

especially ELGAN, and other neonatal respiratory diseases that exhibit altered surfactant homeostasis (e.g., meconium aspiration syndrome, pneumonia, pulmonary hemorrhage, acute neonatal respiratory

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FKLOGKRRG D UHYL~~K~~ ZUR~~8~~ UROFDVHV 6XSSRUW LQ 3UHWHUP ,QIDQWV)URP &3\$3 WR 1\$9
/HERZLWJ 5/ *ULVFR~~P~~ H~~7~~ Q~~D~~ W~~D~~ O K\GURQH~~S~~KURVLV %R~~E~~ V~~H~~ W~~R~~ X~~D~~ G~~L~~ R~~S~~ O~~H~~ L~~F~~ U~~D~~ O\ \$GMXVWHG 9HQWLQDW
&OLQ 1RUWK \$P 3DWLHQW±9HQWLQDWRU ,QW~~H~~U~~D~~F~~W~~L~~R~~Q LQ ,QIDQW
+XEHUWXV - 3OLHQLQJHU 6 0DUWLQRYLF 9 +HLQULFK 0 6FKXVWHU 7 HW DO Ventilation 3HGLD 5HV Indexed at
&KLOGUHQ DQG DGROHV~~F~~HQWV ZLWK XUHWHURS~~H~~ O~~Y~~ L~~F~~ Z~~M~~ X~~I~~ Q~~W~~ L~~R~~ Q~~L~~ R~~E~~ F~~W~~ U~~X~~ R~~A~~ W~~L~~ R~~Q~~ D~~O~~ \ D~~S~~ G~~M~~ X~~V~~ W~~H~~ G
DGGLWLRQDO YRLGLQJ F\VWRXUHWKURJUDP QHFHV~~V~~ D~~S~~ S~~@~~ H~~X~~ C~~O~~ V RQ D~~I~~ R~~O~~ Q~~W~~ L~~R~~ Q~~W~~ H~~H~~ Q~~W~~ L~~R~~ Q~~D~~ W~~H~~ G 3D
:RU - 8URO (OHFWULF 'LDSKUDJPDWLF \$FWLYLW%DRGHGILGDDJ 9
6ZHQRQ ': 'DUJH . =LQLHO &K~~U~~ R~~F~~ Z~~M~~ BULJLQJ XSSHU XULQDU\
WUDFW GLQDWLRQ RQ XOWUDV~~R~~XQG D VXUYH\ RI 1RUWK \$PHULFDQ SHGLDWULF UDGLRORJLWV¶
practices 3HGLD 5DGLRO