

5IF \$VSSFOU "XBSFOFTT BOE ,OPXMFEHF PG U
\$BSEJPWBTDVMBS)FBMUI

7LQD 5DPLQHQL DQG & 1RHO %DLUH\ 0HU]

%DUEUD 6WUHLVDQG :RPHQTV +HDUW & HQWHU & HGDUV 6LQDL +HDUW ,QVWLWXWH /RV \$QJHOHV 86\$
&RUUVHSRQGLQJ & DR%WURQHUVJ))\$ &))\$+\$ 'LUHFWRU %DUEUD 6WUHLVDQG URPDL +HDUW ,QVWLWXWH
%OYG \$+63 /RV \$QJHOHV & \$ 86\$ 7HO PHD#FVKV RUJ(PDLO

5 H F H L Y H G6 B S W H P E H U \$ F F H S W H G6 16 \$ W W H P E H U 3 X E O L V K H G6 16 \$ D W H H P E H U

&RS\ULJKW 5DPLQHQL 7 HW DO 7KLV LV DQ RSHQ DFFFHVV DUWLØ Øô H•KDYH VKRZQ GHFOLQLQJ PRUW
LQLWLDWLYHV DQG FDPSDLJQV WR UDLVH DZDUHQHV RI &9' ZLWKLQ
FRPPXQLW\ ZRPHQ DQG SK\VLFLDQV > @ 6XEVHf(YLGHQFH %DVREVWHWULFLDQ J\QHFRORJLWW
ZRPHQ 2SSRUWXQLWLHV VXFK DV GH VWLJPDWL]DWLRQ PD\ FRQWULEXWH WR
LQFUHDVLQJ QDWLRQDO DZDUHQHV RI WKH UROH RI &9' SDUWLFXODUO\ LQ
\RXQJHU DQG HWKQLF PLQRULW\ ZRPHQ DQG HQFRXUDJLQJ WKH XVH RI
HYLGHQFH EDVHG SUHYHQWDWLYH JXLGHOLQHV ZKHQ WUHDWLQJ IHPDOH SDWHLHQWV

) X Q G L Q J

5 HIH UHQFHV

%HQMDPLQ (- %ODKD 0- &KLXYH 6(&XVKPDQ 0 'DV 65 HW DO
+HDUW GLVHDVH DQG VWURNH VWDWLWLFV XSGDWH \$ UHSRUW IURP WKH
\$PHULFDQ KHDUW DVVRFLDWLRQ &LUFXODWLRQ H H
:LOPRW .\\$ 2)ODKHUW\ 0 &DSHZHOO 6)RUG (6 9DFFDULQR 9
&RURQDU\ KHDUW GLVHDVH PRUWDOLW\ GHFOLQHV LQ WKH 8QLWHG 6WDWHV IURP
WKURXJK (YLGHQFH IRU VWDJQDWLRQ LQ \RXQJ DGXOWV HVSHFLDOO\ ZRPHQ
&LUFXODWLRQ

&LWDW15BQ LQHQL 7 OHU] &1%
+HDOWK 1XUGRL

7KH &XUUHQW \$ZDUHQHV DQG .QRZOHGJH RI WKH ,PSDF

0RVFD -RQHV :. LQJ .%HGXBDQJ 3 \$ZDUHQHORVFD /LQIDQWH \$+ %HQMDPLQ (- %HUUD .
SHUFHSWLRQ DQG NQRZOHGJH RI KHDUW GLWWXDGAH RWLS\ VOL\GDSU\BZBQWQ RQVDBQQJDGKH
ZRPHQ LQ WKH 8QLWHG 6WDWHV \$PHULFDQSKUH\WQ WDLVRQR\KDO/H\QDQZH\RP H&Q UWF\KOIDWWWRQ
GLVHDVH DQG VWURNH FDPSDLJQ WDVN IRUF\H\\$UH\W) D&P O\OGHUVHQ + 6SUDJXH (%XU
0RVFD+DPPRG * 0RFKDUL7RUH\HOLESHUEH\W 0\\$QRZOHGJH DWWLWXGHV DQG EHOLHIV UHJ
)LVHHQ WHUDLUQ GV LQ DZDUHQHV RI KHDZURP\H\ZRP\H\VKHZURPM\OOLDQFH - \$P &RO
5HVXOWV RI D \$PHULFDQ KHDUW DVVRFLDWLRQ QDWLRQDO VXUYH\ &LUFXODWLRQ

0RVFD 0RFKDUL + &KULVWLDQ \$ %HUUD . 7DXEHUW . 1DWLRQDO
VWXGI RI ZRPHQ V DZDUHQHV SUHYHQWLYH DFWLRQ DQG EDUULHUV WR
FDUGLRYDVFXODU KHDOWK &LUFXODWLRQ