

\$OEHWUW DQG %HUWUDQG 'HQW ,PSO

& DVH 5HSRUW

20, & 6 , Q W H I

" / PWFM BOE 1SFEJDUBCMF 8BZ GPS . BYJMMBS  
8JOEPX 'FOFTUSBUFE \$PSUJDPUPNZ - '\$ 5FDIC

\$OEHUWDOQG %HUWUDQG 6&&

1DWLRQDO 'HQWDO & HQWUH 6LQJDSRUH 6LQJDSRUH

&R UUH VSR QGLQJOE XWWRUH / 1DWLRQDO 'HQWDO &HQWUH QG +RVSLWDO 'ULYH  
FDVH UHSRUW

6LQJDSRUH 7@ P...P

,QWHUSUHWDLRQ ,W UHGXFHV WKH FOLQLFDO FKDQFH RI D PHPEUDQH SHUI  
QHHG IRU DQ\ DGGLWLRQDO HTXLSPHQW

, QWURGXFWLRQ

H LQYROYHG SDWLHQW QHHGHG LPSOD  
FREXUÂQ€ 'RWI rlx•4-•l [€ 0 F•D@ I

0D[LOODU\ VLQXV HOHYDWLRQ DQG DXZP\ VQWHDWGRQ LWKDWLUDR\ H4QXUHHQRQDWLRQ  
LQFUDVH WKH VXEWDQWUDO YHUWLFDOPSERUQDFKLPHQVSLORDFHILUPSSDOPHILQH  
LPSODQWYUVQWVZDULEHG E\ %R\QH LQ R > @ DQG 7DWXP LQ  
> @H VLQXWV JHQHUDOO\ D VDIH DQGQ SWKHLF\ WUDFHFRP BURQSDWLRQV  
1HYHUWKHOHVW WKHUH DUH FRPSOLFDWLRQH QGHQWLWKR DODRVUXUQFLUDQVSHQRFYH&KE  
H FRPSOLFDWLRQV LQFOXGH SHUIRUDWLRQVJHRV\ WRM SVLQWRVPHGPXEQBQH ORFDO  
KHPRUUKDJH LQIHFWRQ DFKWWRVWQGRPRBQGLVHQLWVLDLV FOHDQVHG DQG GUD  
FRPSOLFDWLRQ WKDW DULVHV LV WKH SHUIRUDWLRQYRDLWEKILVLOXWV\ KQHGLQH  
PHPEUDQHZLWK D UHSRUWHG SUHYDOHQFH EHWZHQQ DQG @

0DLQWDLQLQJ WKH LQWHJULW\ RI **VLQH** VLQXV PHPEUDQH GXULQJ D VLQXV SURFHGXUH LV HVVHQWLDO LQ DFKLHYLQJ D SUHGLFWDEOH RXWFRPH 3HUIRUDW XVXDOO\ KDSSHQV GXULQJ HOHYDWLRQ DV WKH PHPEUDQH OLQLQJ LV VWLOO DWWDFKHG WR WKH PD[LROPODHW\ IRU\ DQWLVRQD **OBXODQG** SRWHQWLDOO\ UHVXOW LQ EDFWHULDQ LQIHFWRQ FRPSURPLVH RI WKH VLQXV KHDQG IXQFWLRQ ZLWK **DWDKLHO** XVLHEV **TRQH** **QW\ H\ W\ O\ Y\ M\ H\ DRXH\ G** DIZDUHDYQH<sup>Q</sup> OUDHW **D\ LQ\ H\ Q\ W** PHPEUDQH VHUURXQGLQJ 6FKQHLGHULDQ PH SHUIRUDWLRQP 0 WHFKQLTXHV LQFOX **QH\ H\ K\ A\ O\ X\ V\ B\ R\ A\ W\ K\ H\ S\ Z\ A\ P\ R\ O\ H\ A\ F\ W\ K\ R\ K\ W\ H\ O\ H\ V\ W\ U\ X\ P\ H\ Q\ W\ V\ K\ G\ U\ D\ X\ O\ L\ F\ S\ U\ H\ V\ V\ X\ U\ H\ D\ Q\ D\ Q\ V\ D\ X\ W\ H\ G\ V\ X\ R\ W\ F\ L\ R\ Q\ D\ W\ H\ @\ I\ H\ Q\ H\ V\ W\ U\ D\ W\ L\ R\ Q\ Z\ L\ O\ G\ B\ Z\ V\ L\ H\ W\ H\ Q\ V\ Y\ R\ H\ P\ H\ E\ U\ D\ O\ H\ Z\ D\ V\ L\ O\ W\ H\ C**

§ | P

H REMHFVLYH RI WKLV UHSRUW LV WR ]B HRMFWKIEHHIDQGR WHUDV LQGQ SVLHGRGLQFH DQISI  
WFKQLTXH WFKQLTXH UHVXOWV LQ D SWRHRGEWWDQ ODH WHQXH DFK B RQH RRW L ZQXH F R Q Q H  
DWWDFKHG 6FKQHLGHULDQ PHPEUDQW VILHROPH WWKUHD FZDHRQEVQD QDH G DRW WHICH Y ID Q XNGRZDUO V  
WHFKQLTXH LV XVHG GXULQJ ODWHUD OL ZLKQ GR QDQHSEMSHFBBLKQD QGQ M WLW L YHHV SWKHW  
SULQFLSOH RI QHJDWLYH SUHVVXUH VWRF VDLVRQ VWR V QW ORWIK WSKHQV B QHQJQ QOR II UWR RH  
6FKQHLGHULDQ PHPEUDQW VGHFRKLOQWTXH DQHWRQDURQUGH \$ UHVRUEDEOH FROODJHQ P  
/DWHUDO ZLQGRZ )HQHVWUDWHG & RUWL3R B WRD (\$ %) & ROKXVHQ 6ZLW1HUODQG ZDV

'HQW ,PSODQWV 'HQWXUHV DQ RSHQ DFFHVV MRXUQDO

9R0XPH k ,VVXH k

6FKQHLGHULDQ PHPEUDQH ,PSODQWV ZHUH SODFHG LQ DW DQG ZLWK

