

(PS\HPD &DXVHG E\ 8 Q&XVXQDRF \3\DR\SKRDUJHDQ

(PKHPPLG .DUHP +D]LP %RXVDPX\OJDULHG DQG 0DKPRXG 6KRUPDQ  
,QWUHQDO 0HGLFLQH 'HSDUWPHQW -RDQ & (GZDUGV 6FKRRO RI 0HGLFLQH 0DUVKDOO 8QLYHUVLW\ +XQ  
&RUUHVSRRQLQ+D]LP%RXVDPXU .QWUHQDO 0HGLFLQH 'HSDUWPHQW -RDQ & (GZDUGV 6FKRRO RI 0HGL  
( PD%NDPXU#PDUVKDOO HGX  
5HFHLYHG-&DWH \$FFHSWHG\$&DXHW 3XEOLVKHG GDWH 6HSWHPEHU  
&RSULJKW .DUHP ( HW DO 7KLV LV DQ RSHQ DFFHVV DUWLFOH GLVWULEXWHG XQGHU WKH WHUPV RI V  
XVH GLVWULEXWLRQ DQG UHSURGXFWRU LQ DQ\ PHGLXP SURYLGHG WKH RULJLQDO DXWKRU DQG VRXU

\$EVWUDFW  
(PS\HPD LV D FROOHFWLRQ RI SXV LQ WKH SOHXUDO VSDFH ,W LV W\SLFDOO\ D  
UDUH DQG DIWHU H[WHQVLYH UHYLHZ RI WKH OLWDLU &DSQRF\WRSKDJD DQG QO\ IRXU  
RXU FDVH UHSRUW ZH SUHVHQW D &DSQRF\WRSKDJD DQG QO\ IRXU UHVHQWHG ZLV  
DQG V\PSWRPV RI DFXWH FRQJHVWLYH KDUW IDLOXUH &+) ZLWK QR KLVWRU\ R  
IOXLG &XOW\ &DSQRF\WRSKDJD KHU RUJDQLVPV ZHUH LGHQWLILHG DQG EORRG FXOW  
DW LQFUHDVHG UL &DSQRF\WRSKDJD LQ RQV LQFOXGH SRVW VSOHQHFWRP\ SDWLHQW  
DJH RYHU DQG DOFRKRO DEXVH 7KH ULVN IDFWRUV IRU RXU FDVH ZHUH DJH  
KLVWRU\ RI DOFRKRO DEXVH 7KH SDWLHQW ZDV WUHDWHG ZLWK FKHWV WXEH GUD  
UHVROXWLRQ RI KLV HPS\HPD

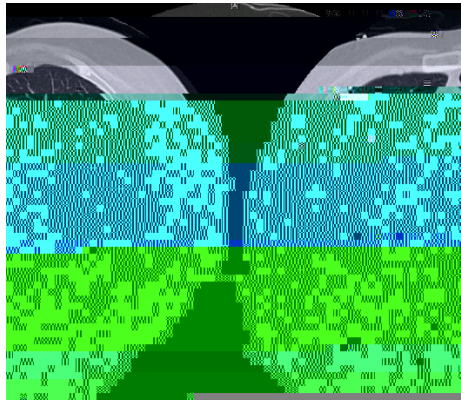
.H\ZRUGV (PS\HPD &DSQRF\WRSKDJD =RRQRWLF

,QWURGXFWRQ

(PS\HPD LV D FROOHFWLRQ RI SXV LQ WKH SOHXUDO VSDFH ,W LV W\SLFDOO\ D  
VHULRXV FRPSOLFWRQ RI SQHXPRQLD ZLWK KLJK PRUELGLW\ DQG PRUWDOLW\  
UDWHVPRVW FRPPRQ RUJDQLVPV FDXVLQJ HPS\HPD DUH JUDP  
SRVLWLYH RUJDQLVPV &DSQRF\WRSKDJD SWRFRFFXV  
0DQJHPHQW RI HPS\HPD LQFOXGHV GUDLQDJH E\ FKHWV WXEH RU VXUJHU\  
DQG XVH RI DSSURS\ &DSQRF\WRSKDJD LLW > @  
H[WUHPHO\ UDUH > @ DQG WR RXU NQRZOHGJH WKHUH LV RQO\ IHZ FDVHV WKDW  
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VORZO\ JURZLQJ IDFXOWDWLYH DQDHURELF \*UDP QHJDWLYH URGV ZLWK JOLGLQ  
PRWLOLW\ ZKR VH JURZWKH QULRS MG PDV PRQSK H&Z  
KHQFH WKH QDPH &DSQRF\WRSKDJD FRQVXPSWLRQ RI &2  
&DSQRF\WRSKDJD DUH SDUW -RIUMK &RJRUFDOVRUDO  
DQG KXPQV DQG ZHUH RQFH DVVRFLDWHG ZLWK SHULRGRQWDO GLVHDVH EXW DU  
QRZ FRQVLGHUHG FRPPHQVDQV LQ GHQWDO SODTXH RI KXPQV  
&DSQRF\WRSKDJD RQV FDQ KDYH YDULHG FOLQLFDO SUHVHQWDWLRQV VXFK  
DV SHULRGRQWDO GLVHDVH UHVSLUDWRU\ WUDFW LQIHFWLRQV RSKWKDOPLF OH  
WUDXPDWLF SHULFDUGLWLV PHGLDVWLQDO DEVFHVV EUDLQ DEVFHVV PHQLQL  
DQG SHULWRQLWLV > @

&DVH

\$ \HDUV ROG ZLWK HPS\HPD LQ FDO KLVWRU\ RI  
&RQJHVWLYH KDUW IDLOXUH 'LDEHWHV 1RQ +RGJNLQdV \APSKRPD LQ  
UHPLVLRQ DQG &KURQLF .LGQH\ GLVHDVH VWDJH +H SUHVHQWHG WR RXU  
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VRFLDO KLVWRU\ +H GLG QRW UHSRUW DQLPDO ELWH RU VFUDWFK EXW UHJXOD  
FDUHG IRU IRXU GRJV DW KLVHV H\VO WLUp4\ JHG WRPRGL ~W KLVH\_H@` H2LQ SW  
Hp LPDJLRQ \$0KL \$0YLWDO\$0VLWL \$0ZHU \$0RX%\0UHDUD€0 \$0IRU\$0W€0 WH VP Q\



)LJXU#7 VFDQ RI WKH FKHVW VHKRZLQRJQLODWHUDO SOHXUDO  
PRUH RQ WKH ULJKW VLGH

UHVXOWV )LQDOO\ ZLWK GHDOLQJ ZLWK ROGHU SDWLHQWdV SRSXODWLRQ DQG