

5HVHDFK \$UWLFOH

2SHQ \$F

PDLOWR D FDEEROHW#@OHT•WRp0 6O #PAWR#70cAO D 0pEP J\°µP J\ D U

\$EVWUDFW

VXJJHVW WKH LQIHFWRQ LV QRW DOZDV WUDYHO UHODWHG 7KH GHWDLOV RI DFXW
WUDYHOHQG RI KHSDWLWL (LQIHFWRQ LV QRW DOZDV WUDYHO UHODWHG 7KH GHWDLOV RI DFXW
EHHQ IXOO\ HOFGLDWHG

2EMHFWLYHV 7KH DLP RI WKLV VWXG\ ZDV WR HYDOXDWH FOLQLFDO IHDWXUHV
GHYHORSHG ZRUOG

6WXG\ GHYHORSHG SDWLHQWV ZLWK D SRVLWLYH UHVXOW RQ KHSDWLWL (VHUROR
HYDOXDWHG 5HWURVSHFWLYHO\ WKH ILOHV RI SDWLHQWV ZLWK DQ DFXWH LQIHF

5HVXOWV 2YHUDOO SDWLHQWV ZHUH WHVWHG ,Q SDWLHQWV WKHUH ZDV D
WUDYHOHQG WR D GHYHORSLQJ FRXQWU\ 7KUH SDWLHQWV ZHUH DVPSWRPDWLF
PDODLVH IDWLJXH DQG QDXVHD DQG RU YRPLWLQJ -DXQGLFH ZDV VHHQ LQ SDW
DOO SDWLHQWV EXW UDQJHV YDULHG FRQLGHUDEO\ 7KH LQIHFWRQ ZDV VHOI
RFFXUUHG DIWHU WZR PRQWKV

&RQFOXVLRQ FOLQLFDO IHDWXUHV RI DFXWH KHSDWLWL (LQIHFWRQ DUH QRQVS
SUHVHQWDWLRQ ,Q SDWLHQWV ZLWK DFXWH RQVHW RI PDODLVH DQG HOHYDWLRQ

.HIZRUG\$FXWH LQIHFWRQ &OLQLFDO DFXWH KHSDWLWL (LQIHFWRQ DUH QRQVS
FRXQWU\ +HSDWLWL (1HWKHUODQGVLQIHFWRQ DQG HPSKDLV]HV WKH QHHG IRU

,Q JHQHUDO KHSDWLWL (YLUXV FDX
%DFNJURXQG +RZHYHU UHFHQW REVHUYDWLRQV LQGLF

+HSDWLWL (YLUXV LV D PDMRU FDXWH KHSDWLWL (YLUXV FDX
GHYHORSLQJ FRXQWULHV LQ \$IULFD DQG LQ FULFDVHV WKH FRPSOHIB DQG RLSWKHOG
FDXVHV H[SORVLYH RXWEUHDNV RI DFXWH KHSDWLWL (LQIHFWRQ
KHSDWLWL (LQIHFWRQ LV DVVRFLDWHG ZLWK SRRU VDQLWDWLRQ GXH WR IDH
FRQWDPLQDWLRQ RI WKH ZDWHU VXSSO\ SRSXWV RYMDUJH JHQSHUDDOORLQJ
SUHJQDQW ZKRVH DFXWH KHSDWLWL (LQIHFWRQ DUH QRQVS

,Q GHYHORSHG DQG QRQ HQGHP LF FRXQWULHV RFFXUUHQFH RI KHSDWLWL (LQIHFWRQ
LQIHFWRQ KDV EHHQ DVVRFLDWHG ZLWK WUDYHOHQWV UHWXUQLQJ IURP HQGHP
FRXQWULHV > @ 'XULQJ WKH SDVW GHFDGH YSRUDGLF EDVHV RI KHSDWLWL (LQIHFWRQ
LQIHFWRQ KDYH EHHQ UHSRUWHG LQ PDODLVH DFXWH KHSDWLWL (LQIHFWRQ
SDWLHQWV ZLWK QR WUDYHOHQG IHDWXUHV

DWRFKWKRQRXV FDXVH KDV LQFULDVHG GUDPDLFDOO\ DQG HYLGHQFH IRU
DQLPDO UHVHUYRLUV DQG JRRRWLF WUDYHOHQWV KDV EHHQ UHYHDOHG ORVV
HSLVRGHV RI JRRRWLF WUDYHOHQWV DUH IRRGERUQH DQG KDYH EHHQ OLQNHG
WR LQJHVWLRQ RI UDZ RU XQGHUFRRNHG IHDWXUHV DQG GRPHVWLF DQDQW
> @ YLUDO KHSDWLWL (LQ WKH VRXWK RI WKH
KHSDWLWL (FDQ EH UHFRJQLVHG DW SUL

,Q 1HWKHUODQGV KHSDWLWL (51\$ KDV EHHQ GHWHFWHG LQ PRUH
WLDQ RI WKH SLJ IDU RSHQDQW KEISOHMLWZHUH
GHVWHG LQ DSSUR[LPDWHO\ RI WKH VODXJKWHU SLJV > @ ,Q
1HWKHUODQGV FRXQWHG RYLULQGILFDWH RQW&HJV > @

6WXG\ 'HVLJQ

(SLGHPLRORJ\

5HWURVSHFLVGHVHVLQKZSDWLHQWV WHVWHG IRU KHSDWLWLV (
LQIHFWLRQ LQ WKH WZR JHQRUHQKRWOSLQDOV LQ 7LOEXUJ
HVHWZR KRVSLWDOV VHUYH D SRSXODWLRQ RI DSSUR[LPDWHO\

GLvHUBQMLQJ V\MWHPWKHQODQGV 6HH FRPPHQW LQ 3XE0HG
&RPPRQV EHZ -)RRG 3URW
&KULVWHQVHQ 3% (QJOH 5(+MRUW & +RPEXUJ .0 9DFK : HW DO
7LPH WUHGG RI WKH SUHYDOHQFH RI KHSDWLWL (DQWLERGLHV DPRQJ IDUPHUV DQG
EORRG GRQRUV D SRWHQWLDO JRRQRVLV LQ 'HQPDUN 6HH FRPPHQW LQ 3XE0HG
&RPPRQV EHZ &OLQ ,QIHFV 'LV
<XJR '0 0HQJ ;- +HSDWLWL (YLUXV IRRGERUQH ZDWHUERUQH DQG
JRRQRWLF WUDQVPLVLRQ 6HH FRPPHQW LQ 3XE0HG &RPPRQV EHZ ,QW -
(QYLURQ 5HV 3XEOLF +HDOWK