

3ODQW EDVHG)RRGV)RU &KURQLF ,QIODPPDWL
 &RPELQHG XVH RI 7RPDWR DQG 2OLYH 2LO IDFLOLWDWH
 5R\ 6HEDVWLDQ 0' 9DQSLW 6HODYDQ\ 0HGLFLQH DQG &RPPX
 7HJDV 7HFK 8QLYHUVLW\ +HDOWK 6FLHQFHV &HQWHU

+<327+(6,6

5HYLHZ DQG SURYLGH HYLGHQFH ROLOWDNHRI SODQW EDVHG
 IRRGV GHFUHDVHV WKH SURJUHVVLRQ ELWLODPPDWRUJ
 GLVHDVHV ZLWK PRUH IRFXV WR SURYLVW WKH WFRDQWL
 O\FRSHQH DQG ROHRFDQWKDO LSKURQDEPQIODPPDWRUJ
 FRQWURO

%,&.*5281'

6WXGLHV KDYH GHPRQVWUDWHG FRQVXPLQJ SODQW EDVHG GLHW
 LPSURYHV KHDOWK WKURXJK LWV FRQVWLWXHQWV DW WKH PLFUR
 DQG PDFURPROHFXODU OHYHO &KURQLF LQIODPPDWRUJ
 FRQGLWLRQV OLNH FDUGLRYDVFODU GHJHQHUDWLYH GLVHDVHV
 FDQFHU GLDEWHV HWF OHDG WR SRO\SKDUPDF\ DQG SRRU
 TXDOLW\ RI OLIH &RQ

5(68/76

DFWLYDWLQJ QXFOHU IDFWRUJ
 DFWLYDWLQJ QXFOHU IDFWRUJ

'DLO\LQWDNHRI PJ O\FRSHQH
 RU PJ RI ROHRFDQWKDO ZDV FRPSDUDEOH WR RI
 ,EXSURIHQ SDQH

'6&866,21

/\FRSHQH D FDURWHQRLG ZLWK D SRZHUIXO QD
 SROLSKHQRORVRDGHU FDURWHQRLG LQ PDQ\ IUXLWY
 HUPHORQ SLQ
 DUH OLSLG
 WLR[LGDQW DQW
 %\ LQWUDF
 WUDQVODWLRQ DQG EORFN WKH WUDQVORFDWL
 WR WKH QXFOHXV WKDW LQWUDFW ZLWK WKH
 WR LQKLELW WKH GRZQVWUHP SUR
 LQIODPPDWRUJ\ F\WRNLQHV LQWHUOXNLQ RI
 2OLYH RLO ULFK ZLWK SKHQROLF ROHRFDQWK
 QRQVWHURLGDO DQWL LQIODPPDWRUJ\ FRPSRXQ
 RWKHU FRNLQJ RLOV 2OHRFDQWKDO KDV EHH
 H[KLELW YDULRXV PRGHV RI DFWLRQ LQ U
 LQIODPPDWRUJ\ UHODWHG GLVHDVH LQFOXGLQJ
 GLVHDVH QHXURGHJHQHUDWLYH GLVHDVH DQ

&21&/86,21

5(5(1&6

KHDOWK 6WUXFWXUH ELRDYDLODELWLW DQG HYLGHQFH RI SURWHFWLYH HHHFWV DJDLQV FKUR
 GRL DUV
 .DXOPDQ\$ %RKQ 7 &DURWHQRLGV LQT V 2aQ7 p C9TM CB'cHaV0 YDQ 6WHHQZLMN+3 %

6VWHPDWLF 5HYLHZ RI WKH /LWUDWXUH 0ROHFXOHV 6HS GRL PROHFXOHV
 30&' 30&
 'HYDUM 6 ODWKXU 6 %DVX 5XQJ ++ 8DVX 97 0HUV 6 -LDODD \$ GRVH UHVSROVH VWXG\ RQ W
 O\FRSHQH VXSSOHQDWLRQ RQ ELRPDUNHUV RI [LGDWLYH VWUHVV - SP &ROO 1XWU SSU
 30.' 30& 30&
 &LFHUOH 6 3DUNLQVRO /XFDV /LVD .HDVV 5XVVHOO 2OHRFDQWKDO \$ 1DWXUDOO \$ 1FF
 SJHQW LQ 9LUJLQ 2OLYH 2LO .H4E

0(7+2'6



HHHFWV



3HFDQV PJ J
 0RULQJD PJ J