

4VSGBDF 5PQP HSBQIJDBM \$IBOHFT

9DQGHZDOOH 6

'HSDUWPHQW RI 3URVWKRGRQWLFV 8QLYHUVLW\ RI &LQFLQQDWL &LQFLQQDWL 2KLR 865

&RUUHVSRRQLQDQGWZDOOH 6 'HSDUWPHQW RI 3URVWKRGRQWLFV 8QLYHUVLW\ RI &LQFLQQDWL D&LQFLQQDWL
FWU#XV DI PLO

5HFHLYHG GDWH)HSDUWPHQW GDWH 0DUFK 3XEOLVKHG GDWH \$SULO

&RSULJKW 9DQGHZDOOH 6 7KLV LV DQ RSHQ DFFHV DUWLFQ GLVWULEXWHG XQGHU WKH WHUPV RI W
XVH GLVWULEXWLRQ DQG UHSURGXFWRQ LQ DQ\ PHGLXP SURYLGHG WKH RULJLQDO DXWKRU DQG VRXU

\$EUVUDFW
7KHLP RI WKLW VWXG\ ZDV WR HYDOXDWH D QHZ VXUJLFDO WHFKQLTXH IRU LP
HQKDQFLQJ ERQH GHQVLW\ ULGJH ZLGWK DQG LPSODQWLQJ VHFRRGDU\ VWDELQ

.HIZRUG%RQH YROXPQH QWLV\HFDWLRQ LQWHJUDWLRQ
%RQH H[SDQVLRQ 3RRU ERQH

,QWURGXFWRQ

HUHV QR TXHVWLRQ WKDW RYHU WKH ODVW WZR GHFDGHV GHQWDO LPSODQW
KDYH UHYROXWLRQLJHG WRRWK UHSODFPHQW DQG WKH SUDFWLFH RI GHQWLVW
'H FRQFHSW RI GHQWDO LPSODQW LV QRW QHZ WKH HDUOLHVW UHFRUGHG
DWHPSW RI WKHLU XVH ZHUH GLVFRYHUHG LQ WKH 0D\ DQ FLYLOL]DWLRQ GDWLQ
EDN WR \$ ' RGD V KLJG V FFFH\JQD} GHQWDO LPSODQW WRQVXWY RDXH
URR\UH ODFHHQW U D QWXU O WDWKDW RRZKFK DDFXZ QILDVWVDFKLFU
OLNH WKH WHH\K LQ\RXU\YWK ZKHQRXSLQ PLDHS HWZH\WKW QR FRLQW EGD JU
GLYUHQHGGLW RQ W\H\ GR QRW GHFD\ DQG DUH UHODWLYHO\ IUHH IURP
GHQRSLJ JXP SLVHDYH \$VZLWK PRVW WRQFOXVLRQ

7UHDWPHQW PRGDOLWLHV LQ GHQWLVWV W\BQPL\DWLRQ ORW X RQ\ LQWRQYUW
VFLHQW\FRYHU\ UHVHDFK DQG XQGHLVWQDGHGEXW PHSOLFWRQ LQHUHV
FOLQLFDO SUBFWLFW\F@ RI LPSODQW LQGHQWLVWU\ ORZSHQV\ ERQH LQ UH
H[SUWLVH LQ SODQQLQJ VXUJLFDO SOFHQW DQG FKHQZ\FUZRPLRQ\ LSOBY
PXFK DERXW DUW DQG H[SHULHQFH DV LWLQDWRXV\VFHQFH PLDQVFRUHLRQW
WHDPZRUN EHWZHHQ\RX WKH SDWLHQW\PSODQW GLWLVWUHSODQWV\XUJHQ
DQG GHQWDO WHFKQLFLDQ 6SHFL}QDQJHG LPSODQW IRU ORZ GH

H PHFKDQLFDO VW `•RVWHRWRPLHV WRFRQGHQWVWLRQ\WKHUPVFRUHLRQW
LQFUHDVH SULPDU\ LPSODQW VWDELQW DQGWDELOLW\SRQ\$%QHWL\PERQH
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Z WUDEHFXODU EXW WKLW WHFKQLTXH GRH
GHQVLW\ %9 RU LPSODQWV\HFRPHQDQZFRUHLRQW
W\UDEHFXODU LQ SHUL LPSODQW ERQH FD

HUHV DOVR REVHUYHG > @ EHWZHHQ VWDQGDUG VLWHV

ODWHULDQV DQG OHWKRGV

DQVLRQ WHFKQLTXH LQ VWDJH ZDV SU

H HGJHV RI WKH LQDF FUHVWV RI VKHS ZHUH H[SRVHG DQG WHQ
PPG\QDPLFV LPSODQWV &RUUHVSRRQLQDQGWZDOOH 6 'HSDUWPHQW RI 3URVWKRGRQWLFV 8QLYHUVLW\ RI &LQFLQQDWL D&LQFLQQDWL

@\,%1dcVB D ` `

S D

&LWDW 99QGHZDOOH 6

6XUIDFH 7RSRJUDSKLFD0 &KDQJHV 'HQW ,PSODQWV 'HQWXUHV

3DJH RI

RQWRJHQHVLV DQG ULGJH VSOIHW FLHQW 6K&Q L%R QDUH:FRQHLEGHUHG 6XUIDF
LQFUHDVH ERQH ZLGWK ZLWK OHVVHU FRPSOLFDWRFKHPLEPQGHIFGLJHG LPSODQWV D

5HIHUFHV

%UDFHU'DV0DH]WX 0\$ \$ODYD -, *D\ (&)RUPDWLRQ ZRFGHQW
ERQH DSSRGLWH LPSODQW VXUIDFH PDWHULDOV ,QWUHQDWLRQDQ DQG SODVPD VSUD\H
MRXUQDO RI RUDO DQG PD[LLOORIDFLDO VXUJPLQLOORIDF ,PSODQW
:HQQHUSHUSOEUHNWVVRQ 7 6XJJHVWHG JXNOLHU08070HUBUWKH %HUQDUG -3
WRSRJUDSKLF HYDOXDWLRQ RI LPSODQW VXUIDFHV WLYHW VXUIDFH 0DL0VRI IRXU
,PSODQW ELRPHGLFD0 PDWHULDOV UHVHDFK 3DUW %
&KDWXU7HGL \$Q RYHUYLHZ RI WKH FRUURVLRQ DVSHFW RI GHQWDO
LPSODQWV WLWDQLXP DQG LWV DOOR\ ,QGLDQ MRXUQDO RI GHQWDO UHVHDFK