

,QWHUDFWLRQV EHWZHHQ \$QWLFDDQFHURRGLF

)\*\$ -DQVPDQ

'HSDUWPHQW RI &OLQLFDO 3KDUPDF\ 'HYHQWHU 7HDFKLQJ +RVSLWDO 'HYHQWHU 7KH 1HWKHUODQGV

,QWURGXFWRQ

\$QWLFDDQFHURRGLFDDWLRQV IUHTXHQWO\ FDXVH 'UXJ 'UXJ ,QWHUDFWLRQV  
'',V ZKLFK FDQ KDYH D PDMRU LPSDFW RQ WKHUDSHXWLF HIIHFWLYHQHV  
DQG WRFDFWUHVXOW D PXOWLGLVFLSOLQDU\ H[SHUW SDQHO LQ WKH  
1HWKHUODQGV LV HYDOXDWLQJ WKH FOLQLFDO LPSRUWDQFH RI '',V LQ FDQFHU  
DQG PDNLQJ VXJJHVVLRQV IRU WKHLU WUHDWPHQW 7KH PHWKRGRORJ\ DQG  
ILQGLQJV RI DQ HYLGHQFH DQG FRQVHQVXV EDVHG DVVHVVPHQW RI '',V  
EHWZHHQ DQWLFDDQFHU DQG QRQ DQWLFDDQFHU PHGLFLQHV DUH SUHVHQWHG 'UXJ  
GUXJ LQWHUDFWLRQV ZLWK DQWLFDDQFHU GUXJV HYLGHQFH EDVHG DQG FRQVHQV  
EDVHG UHFRPPHQGDWLRQV D SUDFWLFDO DQG XQLYHUVDO PDQDJPHQW WRRO W  
GHHFW SUREDEOH '',V LQYROYLQJ DQWLFDDQFHU PHGLFDWLRQV D OLWHUDWXU  
VHDFK ZDV FRQGXFWHG XVLQJ 3XE0HG DQG (0\$ DQG )'\$ HYDOXDWLRQ

Sÿ(@\_šA%VTaWIHU0+PL'JU3"@p U0W 0WU ]pg4 ] &%Ág W @ D K xZLWKa0@1T'9 'SÁp FxvHŠ@• +HJWHDE|HHwPLH]'D ÔM4P p'H] lp`wE•8S'DW D7]H8S' D'bQ] gto Ñ K xZLWKaR501T' aprTE %x --E p04 € &%Áp W @ D c' @p &%gt AV 0L  
€•YQW@Q' Jv `(X!€ Á €• ••` @đ@ p0P Sx) G • @đ Bp0• @đ!<Y` (...%00 øD P0U h x v Q B p 0 O `€D Wx C ð A | ) "

FRQVLGHUDEOH \$OWKRJK PRVW ',V DULYPHLOVDO WRPRIOVDQ DAHHQDYEHOH KHPDW  
HYHQ IDWDO QHFHVVLWDWLQJ WUHDWEH&RVP7KRUVH DDZ DLOH RRIDS SVO'GWURLQYHQJWK  
&RXQWHU 27& DQG KHUEDO PHGLFDWMLQKWHUJ ZKLOFDLURHDDWHLRQWIXG\ WQWRD  
WKHLU LPSDFW RQ DQWLFDDQFHU WUHDQPRIOVR UDWHFRQYHQ' WRLQFLRWQ  
QHHGHG 6LQFH WKH 0XOWLGLVFLSOLQDWHPSHUW \*URXS V LQFHSLWRQ  
SRVVLEOH ',V KDYH EHHQ GLVFRYHUHG ZLWK QHDOU\ KDOI RI WKHP EHLQJ  
GHHPHG FOLQLFDOO\ UHOHYDQW 7KH 5HWHUHQFWLRQV DQG PDQDJHPHQW  
VWDQGDUGV DUH FRPELQH

%UD\HUGBRHUMRP,DWDHDFRUS\$H DVO  
\*OREDO FDQFHU VWDWLVLWLFV FDQF\*H2%  
LQFLGHQFH DQG GHDWKPDLJQDQ\$Q&DQFHU

&RQFOXVLRQ

ORUH SUHFLVH VFUHHQLQJ WHFKQRORJL&OLBU WKH LGHQWLILFDWLRQ RI ',V  
DUH UHTXLUHG DV WKH FRPSOH[LW\ RI DQWLFDDQFHU. WKH WUHDWPHQW +LQPRVH  
LPSURYH HIIHFWLYHQHV DQG UHGXFH DQUP 7KLVHUEDWPHQWRYKGRVDFWLD  
FRPSUHKHQVLYH VXPPDU\ RI FOLQLFDOO\ LQHSURYDQW WHV SKVFRFRWHLADZWW  
DQWLFDDQFHU WUHDWPHQW )XUWKHUPRUH D VLPSON PHWKRQ IRU HYDOXDWLQJ D  
LQWHJUDWLQJ ', UHFRPPHQGDWLRQV LQWR WKH QDWLBRQDQHOHFWURQLE  
SUHVFULSWLRQ V\WHP LV VKRZQ ZKLFK RPPRO SURYLGHFDU V\WHPDWLFDNLQJ  
HYLGHQFH EDVHG DQG FRQVHQVXV EDVHG &DQFHU IRU ', GUXJ WUDFNLQJ  
WKURXJKRXW DQWLFDDQFHU WKHUDS\ 7KLV VWXG\ V RYHUYLHZ DQG VSHFLILF