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-RXUQDO RI &KLOG $GROHVFHQW %HKDYLRU

2ODURWLPL - &KLOG $GROHVF
'2,

5HVHDUFK $UWLFOH

2SHQ $F

5IF 4XBZ PG (FOEFS BOE "OYJFUZ PO 1FSDFQU

5DML 6DNLUX 2ODURWLPL

'HSDUWPHQW RI 6RFLRORJ\ +RXGHJEH 1RUWK $PHULFDQ 8QLYHUVLW\ %HQLQ 5HSXEOLF %HQLQ

&RUUHVSRQGLQJ DXWKRU 5DML 6DNLUX 2ODURWLPL 'HSDUWPHQW RI 6RFLRORJ\ +RXGHJEH 1RUWK $PHULFDQ 8QL
ZDOHUDMHH#JPDLO FRP

5HFHLYHG GDWH -XO\ $FFHSWHG GDWH $XJXVW $XJXVW 3XEOLVKHG GDWH

&RS\ULJKW ‹ 2ODURWLPL 56 7KLV LV DQ RSHQ DFFHVV DUWLFOH GLVWULEXWHG XQGHU WKH WHUPV
XVH GLVWULEXWLRQ DQG UHSURGXFWLRQ LQ DQ\ PHGLXP SURYLGHG WKH RULJLQDO DXWKRU DQG VRXU

$EVWUDFW

7KH VWXG\ LQYHVWLJDWHG DQ[LHW\ DQG JHQGHU DV FRUUHODWHV RI XQGHUJUDG
VWXG\ DLPHG DW H[DPLQLQJ WKH UHODWLRQVKLS EHWZHHQ DQ[LHW\ DQG XQGHUJ
DOVR DVVHVVHG JHQGHU @À«L SHU ÀP0pÀ 0RI VSD ÀP 07KHDLPÀ P ?0JHQGHMð` 0
DQG WKH FROOHFWLRQ RI GDWD 7KH VDPSOLQJ WHFKQLTXHV LQFOXGH WKH
UDQGRP VDPSOLQJ $ WRWDO RI UHVSRQGHQWV ZHUH XVHG IRU WKLV UHVHDU
YDULRXV IDFXOWLHV DQG GHSDUWPHQWV RI IXOO WLPH XQGHUJUDGXDWH VWXGH
TXHVWLRQQDLUH ZDV XVHG WR PHDVXUH UHVSRQGHQW¶V OHYHO RI DQ[LHW\ DQG S

7ZR K\SRWKHVHV ZHUH WHVWHG DW OHYHO RI VLJQLILFDQFH XVLQJ 7 WHVW
FRHIILFLHQW 7KH UHVXOW RI WKH ILUVW K\SRWKHVLV VKRZV D VLJQLILFDQW UHO
SHUFHSWLRQ RI SHUVRQDO VSDFH 3U FDO WDE @ 7KH UHVXOW RI WKH VHFRQG K\SRWK
WKDW WKHUH LV D VLJQLILFDQW JHQGHU GLIIHUHQFH LQ XQGHUJUDGXDWHV SH
WDE FDO 3! @ :KLOH PDOH Q KDYH D PHDQ VFRUH RI DQG D VWDQGDU
HUp`0 p°€Q RLV Q ÀVS S`4•u
SHUFHSW HPI SHUVRQD@Pp€FH >W . 6qX‰wÅ t @T– #ƒG6i #ƒG @Racƒ

Q[LHW\ *HQGHU 3HUFHSWLRQ

%DFNJURXQG WR WKH 6WXG\

3HUVRQDO VSDFH UHIHUV WR D SHUVRQ¶V SHUFHLYHG VHOI ERXQGDULHV DUH LQYLVLEOH DQG HQFRPSDVV D SHUVRQ¶V ERG\ $FFRUGLQJ WR > @ HDFK LQGLYLGXDO FDUULHV D SHUVRQDO VSDFH EXEEOH DURXQG QRW SK\VLFDOO\ YLVLEOH LQ DQ\ ZD\ IRU FRPIRUWDEOH LQWHUDFWLRQ DQG PD\ EH DOWHUHG DFFRUGLQJ WR WKH FLUFXPVWDQFHV SHUVRQDO VSDFH UHTXLUHG J

3HUVRQDO VSDFH LV DOVR NQRZQ DV SHUVRQDO GLVWDQFH > @ HYHQ PRUH FURZGHG WKHQ WKH\ ZRXOG SUHIHU DQG WKLV FRQFHSW LV DSSOLFDEOH LQ WKH GLIIHUHQW DUHDV EH\RQG WKHLU LQWLPDWH GLVWDQFH WR LQFKHV 3HRSOH PRUH GLVWDQFH FRXOG UHVXOW LQ VRPH]RQHV DURXQG XV DQG DWWULEXWHG D XQL

DUH VROD\ DWWHPSWLQJ WR FRQWURO RU PDLQWDLQ EXW PRUH D %XEEOH SHUVRQDO VSDFH RI SHUVRQ GXH WR WKH FXOWXUH WKH\ KDYH EHHQ DFFXVWRPHG WR EXV\ DQG FURZGHG VXEXUEDQ DUHDV QDWXUDOO\ ZRXOG UHTXLUH OHVV SHUVRQDO VSDFH WKDQ SHRSOH LQ 0HGLWHUUDQHDQ FXOWXUHV DQG PRUH WKDQ PHQ LQ $UDE SHRSOH DQG KR

VSDFH UHTXLUHPHQWV LQ H[FKDQJH UHDVRQ WR TXHOO RQHdV QHHG UHODWLRQVKLSV ,Q WKHVH FDVHV H[SHFWHG DV ZHOO DV GHVLUHG RU GHFOLQH K

LYHQ SHUVRQ LV VXEMHFWLYH)RU H[DPSOH RQH ZKR LV DFFXVWRPHG WR EXV\ FLW\ OLIH HVSHFLDOO\ ULGLQJ RQ FURZGHG VXEZD\V LV PRUH WROHUDQW RI RWKHUV LPSHGLQJ RQ WKHLU SHUVRQDO VSDFH WKDQ VRPHRQH ZKR PD\ OLYH LQ D PRUH UXUDO DUHD ,Q IDFW RQH ZKR LV XVHG WR KDYLQJ WKHLU SHUVRQDO VSDFH UHVSHFWHG PD\ EHFRPH H[WUHPHO\ DQ[LRXV DQG FODXVWURSKRELF ZKHQ SODFHG LQ D VLWXDWLRQ ZKHUH SHUVRQDO VSDFH LV D OX[XU\

$FFRUGLQJ WR VFLHQWLVWV SHUVRQDO VSDFH LQYROYHV QRW RQO\ WKH LQYLVLEOH EXEEOH DURXQG WKH ERG\ EXW DOO WKH VHQVHV 3HRSOH PD\ IHHO WKHLU VSDFH LV EHLQJ YLRODWHG ZKHQ WKH\ H[SHULHQFH DQ XQZHOFRPH VRXQG VFHQW RU VWDUH WKH ZRPDQ RQ WKH EXV VTXDZNLQJ LQWR KHU FHOO SKRQH WKH FR ZRUNHU LQ WKH DGMDFHQW FXELFOH EDWKHG LQ FRORJQH RU WKH PDQ LQ WKH VDQGZLFK VKRS OHHULQJ DW \RX %XW LQ EXVHV DQG LQ HOHYDWRUV VKRZV ZKHWKHU SHRSOH KDYH EHFRPH PRUH FRQVWUXFWLYH RI WKHLU SHUVRQDO VSDFH RU HYHQ GLyFXOWOD\ 6WXGLHV VKRZ SHRSOH WHQG WR DGDSW VSDFH FUHDWHV %XW LW KDV EHHQ VXJJHVWHG WKDW FKLOGUHQ LQ WKH FLW\ DQG FLWLHV ZKHUH PXFK

ZRUNV ERWK ZD\V ZKLFK LV ZK\ H[SHUWV EHOLHYH WKDW LQWLPDF\ LQ UHODWLRQVKLSV KHOSV WKHP WR JURZ VWURQJHU RYHU WLPH

5HVHDUFK 'HVLJQ

H VWXG\ HPSOR\V D GHVFULSWLYH VXUYH\ UHVHDUFK GHVLJQ WR GHWHUPLQH WKH UHODWLRQVKLS EHWZHHQ WKH LQGHSHQGHQW DQG GHSHQGHQ YDULDEOH—GEHMHFWLYH RI WKH VWXG\ GHVLJQ LV WR SURYLGH D TXDQWLWDWLYH RU QXPHULF GHVFULSWLRQ RI VRPH IUDFWLRQV RI WKH SRSXODWLRQ WKH VDPSOH E\ DVNLQJ UHOHYDQW TXHVWLRQV WKDW DGGUHVV VRPH XQNQRZQ DVSHFW RI WKH SRSXODWLRQ

6WXG\ SRSXODWLRQ

H SRSXODWLRQ IURP ZKLFK WKLV VWXG\ ZDV FDUULHG RXW FRQVLVWV RI IXOO WLPH XQGHUJUDGXDWH VWXGHHQWV RI WKH 8QLYHUVLW\ RI /DJRV 8QLYHUVLW\ RI /DJRV SRSXODUO\ NQRZQ DV 8QLODJ LV D IHGHUDO XQLYHUVLW\ ZLWK D PDLQ FDPSXV ORFDWHG DW $NRND <DED DQG D FROOHJH RI PHGLFLQH ORFDWHG DW ,GL $UDED DOO LQ /DHJRV /DJRV VWDWH VRXWKHUQ 1LJHULD XQLYHUVLW\ KDV IXOO WLPH XQGHUJUDGXDWH VWXGHQW VWUHQJWK RI RYHU LQGLYLLY

7DEOH   6KRZLQJ FRUUHODWLRQ DQDO\XEVM RHFUUHG DWYLRL 3HFKLVSRGHJDZHUHOO DWYLRLEGDWV DQG   XQGHUJUDGXDWHVᵈ SHUFHSWLRQWᴿH SXᵐᵐᵂᴼᴺDRI WS%DFFUHVXPOWHVW WKH K\SRWKHVLV   GDWD FROOHFWHG RQ DQ[LHW\ DQG SHUVRQDO VSDFH ZHUH

9DULDEOH	1	0HDQ	6'	'I	U FDO	U WDE	3 YDO "
$Q[LHW\							
							!
3HUVRQDO VSDFH							

7DEOH

LQFOXGH ERWK SK\VLFDO LV DQG SMFFDXXVRO RDL FPDOHV SDFH
PRUH ZLOOLQJ WR JLYH XS KLV SHUVRQDO VSDFH WR D IHPDOH WKDQ WR DQRWK
PDOH %\ LPSOLFDWLRQ PDOHV KDYH D KLJK SUHFHSWLRQ RI SHUVRQDO VSDFH
WKDQ IHPDOHV ZKR FDQ JLYH XS WKHLU SHUVRQDO VSDFH WR DQ\ PDOH WKH\
KDYH D FORVH UHODWLRQVKLS ZLWK DQG DOVR WR RWKHU IHPDOHV

6XPPDU\ RI WKH 6WXG\

LV VWXG\ LQYHVWLJDWHG DQ[LHW\ DQG JHQGHU DV FRUUHODWHV RI
XQGHUJUDGXDWHVd SHUFHLVWWLRQ RI DZ\ SHUVRQDOO VWSDFH
LQYHFKDSWHH LQWURGXFWRU\ FKDSWHU FKDSWHU RQH SUHVHQWV
EDFNJURXQG WR WKH VWXG\ WKH VWDWHPHQW RI SUREOHP REMHFWLYHV DQG
VLJQL}FDQOWFKH HVWWGLHZ RI HPSLULFDO OLWHUDWXUH LQ FKDSWHU
WZR FRYHUV FRQFHSW RI SHUVRQDO VSDFH DQ[LHW\ DQG JHQGHU DV ZHOO D
WKHRUHWLFDO IUDPHZRUN DQG UHYLHZ RI HPSLULFDO VWXGLHV

H PHWKRGRORJ\ DQG WHFKQLTXH RI JDWKHULQJ DQG SURFHVVLQJ WKH
GDWD IRU VWXG\ ZHUH UHSRUWHG LQ FKDSWHU WKUHH 5HOHYDQW GDWD ZHUH
FROOHFWHG XVLQJ TXHVWLRQQDLUHV VXUFKYH\ WHFKQLTXH
TXHVWLRQQDLUH FRQVLVWHW\WUSDWWUFRQPDMRV 8DUWV
WKH GHPRJUDSKLF LQIRUPDWLRQ DERXW WKH UHVSRQGHQW WKH VHFRQG SDUW
H[DPLQHG DQ[LHW\ OHYHO ZKLOH WKH WKLUG SDUW DVVHVVHG WKH SHUFHSWLRQ
SHUVRQDO VSDFH

4XDQWLWDWLYH GDWD ZHUH DQDO\]HG XVLQJ 7 WHVW 3HDUVRQ FRUUHODWLRQ
FRHyFLHHHQ\RXUW FKDSWHU SUHVHQW WKH DQDO\VLV UHVXOW RI GDWD ZKLOH
GLVFXVVLRQ DQG VXPPDU\ FRQFOXVLRQ DQG UHFRPPHQGDWLRQ ZHUH WKH
IRFXV RI}FKHDSWYO K\SRWKHVHV ZHUH WHVWHG DW OHYHO RI
VLJQL}FDOQFHVXOWV VKRZHG WKDW

HUHLVVDJQL}FDQ\DWLRQVKLS EHWZHHQ DQ[LHW\ DQG SHUVRQDO
VSDFH SHUFHSWLRQ DPRQJ XQGHUJUDGXDWHV

HUHLVVDJQL}FDOQGHUHUHQFHHUFHSWLRQ RI SHUVRQDO
VSDFH DPRQJ XQGHUJUDGXDWHV

&RQFOXVLRQ

H LQWHJULW\ RI SHUVRQDO VSDFH DQG SULYDF\ LV SURWHFWHG E\
WHUULWRULDOLW\ 1R ZRQGHUV XQGHUJUDGXDWHV GHPDFDWH WKHLU VSDFHV
WKHLU UHVSHFWLYH OKDVOHNHRQWHVRLGFXQFWDLLQWKDQG