



-RXUQDO RI \$O]KHLPHUV 'LV 3DUNLQVRQ LQ - \$O]KHLPHUV 'LV 3DUNLQVRQ
3DUNLQVRQLVP 2SHQ \$FFHVV

&RPPHQWDU\ 2SHQ \$F

\$Q 2YHUYLHZ RQ 0XOWLSOH 6\ VWHP \$WURSK\

\$QGUHD 7DOHV
'HSDUWPHQW RI 3V\FKRORJ\ 6ZDQVHD 8QLYHUVLW\ 6ZDQVHD :DOHV 8QLWHG .LQJGRP

'HVFULSWLRQ

6OHHS GLVWXUEDQFHV

0XOWLSOH 6\ VWHP \$WURSK\ 06\$ LV 6OHHS GLVWXUEDQFHV FDXVHG EFWLQ
DIIHFWV \RXU ERG\ V LQYROXQWDU\ 6OHHS GLVWXUEDQFHV FDXVHG EFWLQ
SUHVXUH UHVSLUDWLRQ EODGGHU IXQFWLRQ DQG PRWRU FRRUGLQDWLRQ
06\$ DOVR NQRZQ DV 6K\ 'UDJHU V\QGURPH ROLYRSRQWRFRHUHEHOODU
DWURSK\ RU VWULDWRQLJUDO GHJHQHURPH RYDVFODU FRPSORFDWLRQV DPH
V\PSWRPV DV 3DUNLQVRQ V GLVHVVH FROXGGLDQG GHVDFWV SURGXFH WLFKRX
PXVFOHV DQG SRRU EDODQFH 7KHUH LV QR FXUH DQG SUHVVLRQ WLFKRX
GUXJV DQG OLIVW\OH DGMXVPHQWV WR KHOS FRWURO V\PSWRPV 7KH LOOQH
ZRUVHQV RYHU WLPH ILQDOO\ OHDGLQJ V\PSWRPV GLIILFXOWLHV
‡ &RQWUROOLQJ HPRWLRQV VXFK DV LQDS

6\PSWRPV

&DXVHV

0XOWLSOH 6\ VWHP \$WURSK\ 06\$ DIIHFWV PXOWLSOH ERG\ V\ VWHPV
6\PSWRPV FRPPRQO\ DSSHU LQ PDWXULW\ 0XOWLSOH 6\ VWHPV \$WURSK\ 06\$ KDV QR
7KHUH DUH WZR IRUPV RI 06\$ SDUNLQVRQ 6\PSWRPV WLFKRX WLFKRX
GHWHUPLQH E\ WKH V\PSWRPV SUHVHURPH RYDVFODU FRPSORFDWLRQV DPH
LV QR VROLG HYLGHQFH WR EDFN XS WLFKRX
FHUHEHOXP EDVDO JDQJOLD DQG EUDLQ
IXQFWLRQV GLJHVWLRQ DQG PRWRU FRQ

3DUNLQVRQLDQ W\SH

7KH PRVW SUHYDOHQW W\SH RI 06\$ DWURSKV RYHU 6\PSWRPV DQG WLWVXH
LQGLFDWRUV DUH FRPSDUDEOH WR WKH PRVW 3DUNLQVRQ 6\PSWRPV WLFKRX
‡ 0XVFOH ULJLGLW\ DOSKD V\QXFOHLQ XQGHU D PLFURVFRS
‡ %HQGLQJ \RXU DUPV DQG OHJV LV GLIILFXOW RYHU SUHVHVG LQ PXOWLSOH V\ VWHP DW
‡ 6ORZO\ PRLQJ EUDG\NLQHVLD
‡ 7UHPRUV IDU OHVV FRPPRQ LQ 06\$ WLFKRX RYHU 6\PSWRPV WLFKRX
GLVHVVH 0XOWLSOH 6\ VWHP \$WURSK\ 06\$ KDV QR
‡ 3UREOHPV ZLWK EDODQFH DQG SRVWXUH ERPH H\SHUV DUH ORRNQJ LQWR ZKHW
FRPSRQHQW RU LI DQ HQYLURQPHQWDO FR
LV QR VROLG HYLGHQFH WR EDFN XS WLFKRX
FHUHEHOXP EDVDO JDQJOLD DQG EUDLQ
LQGLFDWLRQV DQG V\PSWRPV EXW RWKHU XQVWDELOLWLRQV GLJHVWLRQ DQG PRWRU FRQ
DWURSK\ 7KH GDPDJHG EUDLQ WLWVXH
‡ 8QVWHDG\ ZDON DQG ODFN RI EDODQFH DUH HURPH RYDVFODU FRPSORFDWLRQV DPH
PRELOLW\ DQG FRRUGLQDWLRQ DOSKD V\QXFOHLQ XQGHU D PLFURVFRS
‡ 6SHHFK WKDW LV VOXUHG VOXJLVKRYHU ORZV\ROXPH LQ 6\PSWRPV V\ VWHP DW
‡ %OXUU\ RU GRXEOH YLVLQ DV ZHOORV GLIILFXOWLHV FROFHQWUDWLRQV \RXU
H\HV &RUUHVSROGLD Andrea Tales Department of Psychology,
Swansea University, Swansea, Wales, United Kingdom, Tel:
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&HUHEHOODU W\SH

3UREOHPV ZLWK PXVFXODU FRRUGLQDWLRQ FHUHEHOXP EDVDO JDQJOLD DQG EUDLQ
LQGLFDWLRQV DQG V\PSWRPV EXW RWKHU XQVWDELOLWLRQV GLJHVWLRQ DQG PRWRU FRQ
DWURSK\ 7KH GDPDJHG EUDLQ WLWVXH
‡ 8QVWHDG\ ZDON DQG ODFN RI EDODQFH DUH HURPH RYDVFODU FRPSORFDWLRQV DPH
PRELOLW\ DQG FRRUGLQDWLRQ DOSKD V\QXFOHLQ XQGHU D PLFURVFRS
‡ 6SHHFK WKDW LV VOXUHG VOXJLVKRYHU ORZV\ROXPH LQ 6\PSWRPV V\ VWHP DW
‡ %OXUU\ RU GRXEOH YLVLQ DV ZHOORV GLIILFXOWLHV FROFHQWUDWLRQV \RXU
H\HV &RUUHVSROGLD Andrea Tales Department of Psychology,
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8ULQDU\ DQG ERZHO SUREOHPV

5HFHLYHG 0DQVADP 1R (GLWRU
DVVLJQHG\ 3UH4&JADP2 (PQ)
5HYLHZHG 4 & 1R JADP-25 HYLWVG
-XO\ 0DQXVADP 1R) 3XEOLVKHG
-XO\ '2

&RQVWLSDWLRQ

%ODGGHU RU ERZHO FRWURO SUREOHPV LQFRQLQHQFH

6ZHDWLQJ LUUHJXODULWLV

&LWDWLDQV \$Q 2YHUYLHZ 0XOWLSOH 6\ VWHP
\$WURSK\ 06\$ - \$O]KHLPHUV 'LV 3DUNLQVRQ
‡ 6ZHDW WHDUV DQG VDOLYD SURGXFWLRQ ERPH RYDVFODU FRPSORFDWLRQV DPH
‡ 5HGXFHG SHUHVSLUDWLRQ FDXVHV KHDGLVWDELOLWLRQV XQGHU 7KLV LV DQ RSH
‡ ,PSDLUH\ WHPSHUDWXUH UHJXODWLRQV DUH WLFKRX WLFKRX WLFKRX
IHHW UHSURGXFWLRQ LQ DQ\ PHGLXP SURYLGH
DUH FUHGLWHG