

TRAUMATIC SPINAL CORD INJURIES THE UNDERWRITING SIGNIFICANCE

Executive Summary

Many people like to talk about how thrilling avocations are, while very few talk about the

Case Presentation \$ \H DU ROG F LQFLGHQW \H DU V DJR ZKLFK UHVXO VSLQDO FRUG LQMXU\ DW / DQG 7 SDUDSOHJD +H LV IXOO\ HPSORIHG QHHU OHG LFOFKDLU ERUGV UHYHDO WK

- 7KH SURSRVHG LQVXUHG UHOLHV
- +HLV DEOH WR XVH WKH WRLOHW UHJXODU\ ZLWK QRUPO
- EODGGHU IXQFWLRQ DQG GDLO\ ERZHO PRYHPHQW
- +HKDV FKURQLF SDLQ DQG KDV EHHQ SUHVFULEHG
- JDEDSHQWLQ R\FRGRQH DQG WUDPDGRO IRU SDLQ
- PDQDJHPHQW ZKLFK KH RQO\ XVHV DV QHHGHG
- +HKDV VWDEOH GHSUHVVRQ SRVW WUDXPDWLF VWUHV
- GLVRUGHU 376' DQG DQ[LHW\ ZKLFK DUH FRQ-
- WUROOHG ZLWK PJ =RORIW GDLO\ DQG PJ DOSUD-
- JRODP DV QHHGHG

Epidemiology of Traumatic Spinal Cord Injuries

2QH RI WKH PRVW FDWDVWURSKLF WISHV RI LQMXU\ LV WUDXPDWLF VSLQDO FRUG LQMXU\ ZKLFK FDQ UHVXOW LQ YDU\LQJ GHJUHHV RI SDUDOHVLV VHQVRU\ ORVV DQG EODGGHU RU ERZHO G\VIXQFWLRQ 76&, QRW RQO\ KDV D QHJDWLYH

LPSDFW RQ RQH\ KHDOWK EXW LW DOVR KDV D V\JOLGFRQWRZQLZp 0 \H DU V DQG LQ XQGHUHYHQRSHG RQWUHYWKH DYHUDJH DJH YDULHV IURP WR FRUG DV 3UVRXYW HG OHUYHV DQ VWXGLHV KDYH UHYHDOHG WKDW WKH DFWX@tE@1x@F@athophysiology of Trauma 76&,V RFFXU ZKHQ WKUH LV H[FHVVVWHFDO WDIWHPHQKDQFDO WUDSHQHWUDWLQJ LQMXU\ RQ WKH YHUWKHUPROGDU\ PHKDQLV LQFOXGH WR GDPDJH RI WKH VSLQDO FRUG OHFELQFKHLD LQMXU\ FHOXODU SU LQFOXGH WUDQVHFWRQ FRPSUHVVLRQ FRUWFRUWV DQ RUPWKH VSLQDO FRUG &RPSURPLVH RI WKH FRUG YDU\XODU\ SSKHLD HGHPD LQJ WKH FRUG FDQ OHDG WR LVFKHPD DQ DQSWRUUFWLRQ DOG FHO VSLQDO FRUG 6WXGLHV KDYH VXJJHVW WKDW DFXWH VSLQDO FRUG LQMXU\ LV D WZR VWHS SUPREHVY LOYRQYLQ\ SUIPDUI DQG VHFRQGDUI\ PHFKDQLVPV

Severity of Traumatic Spinal Cord Injuries

A	&RPSO	HWH 1R PRWRU RU VHQVRU\ IXQFWLRQ LV SUHVVHUYHG L H VDFUDO VHJPHQWV 6 6
B	,QFRPS	OHWH 6HQVRU\ IXQFWLRQ SUHVVHUYHG EXW PRWRU IXQFWLRQ WKH QHXURORJLFDO OHYHO DQG LQFOXGHV WKH VDFUDO V
&	,QFRPS	OHWH 0RWRU IXQFWLRQ LV SUHVVHUYHG EHORZ WKH QHXUR

2Q SK\VLFDQ H[DP VHQVRU\ IXQFWLRQ LV JUDGHG IURP
WR ZLWK DV DEVHQW DV DOWHUHG DQG DV QRUPDO
ZKLOH PXVFOH IXQFWLRQ LV JUDGHG RQ D VFDOH RI WR

- 7RWDO SDUDO\VLV
- 3DOSDEOH RU YLVLEOH FRQWUDFWLRQ
- \$FWLRMHPHQW IXOO UDJH RI PRWLRQ 520
ZLWK JUDYLW\ HOLPLQDWHG
- \$FWLYH PRYHPHQW IXOO 520 DJDLQVW JUDYLW\
- \$FWLYH PRYHPHQW IXOO 520 DJDLQVW JUDYLW\ DQG
PRGHUDWH UHVLVWDQFH
- 1RUPDO PXVFOH IXQFWLRQ

6SLQVFRFN LV WKH DOWHUHG SK\VLORORJLF VWDWH LPPHGL-
DWHO\ DIWHU D 76&, ZKLFK SUHVVHQW DV D ORVV RI VSLQDO
FRUG IXQFWLRQ EHORZ WKH OHYHO RI WKH LQMXU\ ZLWK ADF-
FLG SDUDO\VLV DQHVWKHVL D ORVV RI ERZHO DQG EODGGHU
FRQWURO DQG ORVV RI HUS\$JDLQVW
DIWHU VSLQDO VKRFN KDV UHVROYHG LV KLJKO\ SUHGLFWLYH
RI DQ LQGLYLGXDO\ DV DELOLW\ WR ZDON DW \HDU
ZLWK \$6,\$ *UDGH \$ LQMXU\ DUH KLJKO\ XQOLNHO\ WR UH-
JDLQ LQGHSHQGHQW DPEXODWLRQ DW \HDU SRVW LQMXU\

Complications

76&,V KDYH VLJQL¿FDQW ORQJ WHUP VHTXHODH DcHFWLQJ
DOPRVW HYHU\ RUJDQ V\VWHP &RPSOLFDFWLRQV WKDW DUH
PRVW FRPPRQO\ HQFRXQWHUHG DQG KDYH D VLJQL¿FDQW
LPSDFW RQ XQGHUZULWLQJ LQFOXGH

- Cardiovascular

C & R QD UO S D S W H U R I G L O H D W A I Q L Q P R H Q V I W W G Y H S I D Q G € p
0, ZHUH IRXQG LQ DQG RI SDWLHQWV
UHVSHFWZKLFK\LV VOLJKWO\ KLJKHU WKDQ WKH
JHQHUDO SRSXODWLRQ 7KLV LV WKRXJKW WR EH GXH
WR WKH SUHVHQFH RI ULVN IDFWRUV REHVLW\ LQDFWLY-
LW\ G\VOLSLGHPLD DQG DW\SLFDO SUHVHQWDWLRQV RI
P\RFDUGLDO LVFKHPLD

,Q WKLV FDVH WKH IDYRUDEOH IDFWRUV OLNHO\ RXWZHLJK WKH
 XQIDYRUDEOH IDFWRUV 7KH FKURQLF SDLQ DQG EHQ]RGLD]
 HSLQH XVH DORQJ ZLWK LQFRPSOHWH SDUDSOHJLD ZLWK QR
 FXUUHQW HYLGHQFH RI VHYHUH DVVRFLDWHG FRPSOLFDWLRQV
 DOVR ZHLJK LQ WKH RYHUDOO UDWLQJ :LWK VHYHUDO IDYRUDEOH
 IDFWRUV LQ WKLV FDVH DQ RCHU LQ WKH PRGHUDWH WR KLJK
 VXEVWDQGDUG UDQJH LV VXSSRUWHG

Notes

.DQJ < 'LQJ + =KRX +; :HL =- /LX / 3DQ '<)HQJ 64 (SLGHPL-
 RORJ\ RI ZRUOGZLGH VSLQDO FRUG LQMXU\ D OLWHUDWXUH UHYLHZ -RXUQDO RI
 1HXURUHVWRUDWRORJ\
 \$PEURJDLWL .9 .RQWDXWDV (6SDNDXVNDV % 9DLWNDLWL ' 1XJDURV
 VPHJHGX SDJHLGLPR SDWR¿]LRORJLMD >3DWKRSK\LRORJ\ RI DFXWH VSLQDO
 FRUG LQMXU\@ Medicina .DXQDV /LWKXDQLDQ
 5REHUWV 77 /HRQDUG *5 &HSHOD '- &ODVVL¿FDWLRQV LQ %ULHI \$PHULFDQ
 6SLQDO ,QMXU\ \$VVRFLDWLRQ \$6,\$,PSDLUPHQW 6FDOH &OLQ 2UWKRS 5HODW
 5HV
 =LX (0HV¿Q)% 6SLQDO 6KRFN >8SGDWHG 1RY @ ,Q 6WDW3HDUOV
 >,QWHUQHWH@ 7UHDVXUH ,VODQG)/ 6WDW3HDUOV 3XEOLVKLQJ -DQ
 9DQ 0LGGHQGRUS -- +RVPDQ \$- 'RQGHUV \$5 0P G@ à0P&OLQ 2UWKRS 5@W DP %ñHöP € 4P %ñĐ 0P N €