

TRAUMATIC SPINAL CORD INJURIES THE UNDERWRITING SIGNIFICANCE

Executive Summary

Many people like to talk
vacations are, while very

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few talk about theCase Presentation$      \HDU ROG F
LQFLGHQW  \HDUV DJR ZKLFK UHVXO
VSLQDO FRUG LQMXU\ DW /      DQG 7
SDUDSOHJLD +H LV IXOO\ HPSOR\HG
HYROD DZGLFQFKDTHFRUGV UHYHDO WK
W\H\XODUQ\ZLWKFORUDQ

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7KH SURSRVHG LQVXUHG UHOLHV SDUDSOHJLD +HDLV IXOO
• +HLV DEOH WR XVH WKH WRLOHW QHHQ OTHG FDOH ERUGV
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

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## Epidemiology of Traumatic Spinal Cord Injuries

2QH RI WKH PRVW FDWDVWURSKLF WISHV RI LQMXU\ LV WUDX-  
PDWLF VSLQDO FRUG LQMXU\ ZKLFK FDQ UHVXOW LQ YDU\LQJ  
GHJUHHV RI SDUDOLVLV VHQVRU\ ORVV DQG EODGGHU RU  
ERZHO G\IXQFWLRQ 76&, QRW RQO\ KDV D QHJDWLYH  
LPSDFW RQ RQH\ KHDOWK EXW LW DOVR KDYH D VXLQGHU  
ZQLZOpO \HDUV DQG LQ XQGHU GHYDPSH\XFKRQWUHYWKHFRPSUHV  
DYHUDJH DJH YDULHV IURP WR FRUGDQG<sup>3</sup>HYH\XWHG OHUYHV DQ  
VWXGLHV KDYH UHYHDOHG WKDW WKH D\W\B@tE@X1xS\F@athophysiology of Trauma  
76&,V RFFXU ZKHQ WKHUH LV H\FHVVDWHG D\W\B@tE@X1xS\F@athophysiology of Trauma  
SHQHWUDWLQJ LQMXU\ RQ WKH YHU\WKHFRUGDQG<sup>3</sup>HYH\XWHG OHUYHV DQ  
WR GDPDJH RI WKH VSLQDO FRUG RHFHQWLFHFDLQMXU\FHOXODU SU  
LQFOXGH WUDQVHFWLRQ FRPSUHVVDWHG D\W\B@tE@X1xS\F@athophysiology of Trauma  
VSLQDO FRUG &RPSURPLVH RI WKH FHOXODU SU  
LQJ WKH FRUG FDQ OHDG WR LVFKHPLDQDQWUHYWKHFRUGDQG<sup>3</sup>HYH\XWHG OHUYHV DQ  
VSLQDO FRUG 6WXGLHV KDYH VXJJHVWHG WKDW DFXWH VSLQDO  
FRUG LQMXU\ LV D WZR VWHS SURFHVVLQJ LQJ SULDU\  
DOG VHFROGDU\ PHFKDOLVPV

|   |        |                                                                                                         |
|---|--------|---------------------------------------------------------------------------------------------------------|
| A | &RPSO  | HWH 1R PRWRU RU VHQVRU\ IXQFWLRQ LV SUHVVHUYHG L H<br>VDFUDO VHJPHQWV 6 6                               |
| B | ,QFRPS | OHHW 6HQVRU\ IXQFWLRQ SUHVVHUYHG EXW PRWRU IXQFWLRQ<br>WKH QHXURORJLFDO OHYHO DQG LQFOXGHV WKH VDFUDO V |
| & | ,QFRPS | OHHW 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
- \$FWLRMMHPHQW IXOO UDJJH 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 ORVVRIHUS\$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 LQFRPSOHHW 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\  
\$PEURJDLWLWV .9 .RQWDXWDV ( 6SDNDXVNDV % 9DLWNDLWLWV ' 1XJDURV  
VPHJHGX SDJHLGLPR SDWR¿]LRORJLMD >3DWKRSK\VLORORJ\ 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  
>,QWHUQHW@ 7UHDVXUH ,VODQG )/ 6WDW3HDUOV 3XEOLVKLQJ -DQ  
9DQ 0LGGHQGRUS -- +RVPDQ \$- 'RQGHUV \$5 0PG@ à0P&OLQ 2UWKRS 5@W DP %ñHöP € 4P %ñĐ 0P N €