



MUSC3806

GndY f [g]Yg&b`Gci bX`HYWbc`c[m

GYa YghYf`Hk c`#`&\$%



GWcc`cZH Y`5ftg`UbX`A YXJU`#`I BGK`..5ftg`UbX`GcWJU`GWYbWg

7 ci fgY`Cj Yfj JYk

`GHUZZ7cbhUW`8YHU`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWUjcb	D\cbY
8F"5XUa `<i`VYfh	U"i`VYfh i bgk "YXi "Ui	K YX`&!` `cfVm Uddc]bha Ybh	F cVYfh K YVghYf%\$,	- ' ,)`%%%)

GWcc`7cbhUW`bZcfa Uh]cb

Fcca "`%&Z`Yj Y`` `F cVYfhK YVghYf`6i]X]b[

D\cbY. f\$&L`- ' ,) `(,) *

9a Uj]: [gUa 4 i bgk "YXi "Ui](#)

K YVg]hY: [\hfdg.#gUa "Ufhg"i bgk "YXi "Ui](#)

H\Y`GWcc`cZHY`5fhg`UbX`A YX]U`k ci `X`_]Y`hc`F YgdYWz`m5W_bck`YX[Y`hY`HfUX]hcbU`7i`ghcX]Ubgz`hY`6YXY[U`fP`Ybg]b[hcb`WUa`di`gEz`; UX][U`f7`]mUbX`5fh/`8Yg][b`7 Ua`di`gYgE`UbX`hY`B [i`bbUk`U`dYcd`Y`f5i`ghU]Ub`8YZf`bW` : cfW`5WUXYa`m]b`7`UbVYffU`E`cZHY`UbXg`k`YfY`YUW`WUa`di`g`cZI`BGK`]g`c`WUHYX"

~~6WU~~XUbW`F`Yei`]fYa`Ybhg

5`gh`XYbh]g`YI`dYW`X`hc`U`hY`bX`U`WUgg`W`b`h`U`W`i`ci`fg`Z`c`f`U`Z`J`W`!`h`!`Z`J`W`f`l`&`E`c`f`V`Y`b`X`Y`X`W`e`i`fg`Y`Ub`X`W`e`a`d`Y`h`U`U`W`U`j`]h`Y`g`Z`c`f`U`V`Y`b`X`Y`X`c`f`Z`m`c`b`]b`Y`W`e`i`fg`Y"

5`gh`XYbhk` \c`Uffj`Yg`a`cfY`h`Ub`%)`a`]bi`h`g`U`h`a`Um`V`Y`d`Y`b`U`]g`Y`X`Z`c`f`b`c`b`!`U`h`Y`b`X`U`b`W`"Z`gi`W`U`d`Y`b`U`m`]g`]a`d`c`g`Y`X`Z`h`Y`gh`XYbhia`i`gh`V`Y`]b`Z`c`f`a`Y`X`j`Y`f`V`U`m`U`h`h`Y`Y`b`X`c`Z`W`U`g`g`U`b`X`U`X`j`]g`Y`X`]b`k`f`]h`b[`k`]h`]b`&(`\`ci`fg`"

Z`U`gh`XYbhYI`d`Y`f`]b`W`g`]`b`Y`gg`Z`a`]g`U`X`j`Y`bh`f`Y`c`f`c`h`Y`f`c`W`W`f`f`Y`b`W`h`U`h`a`U`_`Y`g`U`V`g`Y`b`W`Z`c`a`U`W`U`g`g`#`U`W`j`]m`i`b`U`j`c`]X`U`V`Y`Z`c`f`YI`d`Y`W`g`h`c`V`Y`U`V`g`Y`bh`Z`c`a`U`Z`c`f`h`W`e`a`]b[`W`U`g`g`#`U`W`j`]m`Z`h`Y`m`i`g`l`c`i`X`g`Y`Y`_`d`Y`f`a`]g`g`]c`b`Z`c`a`h`Y`7`ci`fg`Y`5`i`h`c`f`]m`Z`U`b`X`k`Y`f`Y`U`d`]W`U`V`Y`Z`h`Y`]f`f`e`i`Y`g`h`g`l`c`i`X`V`Y`U`W`W`e`a`d`U`b`]Y`X`V`m`U`b`c`f`]b`U`c`f`W`f`h`Z`Y`X`W`e`d`m`c`Z`U`a`Y`X`]W`W`f`h`Z`W`h`Y`c`f`c`h`Y`f`Z`c`a`c`Z`U`d`d`f`c`d`f`]U`h`Y`j`]X`Y`b`W`"

5`7`ci`fg`Y`5`i`h`c`f`]m`a`Um`YI`W`g`Y`U`gh`XYbhZ`c`a`W`U`g`g`Y`g`c`f`U`W`j`]h`Y`g`Z`c`f`i`d`h`c`b`Y`a`cb`h`"<`c`k`Y`j`Y`f`Z`h`Y`m`a`Um`U`g`g`]b`U`X`X`]h`c`b`U`U`b`X`#`f`U`h`Y`f`b`U`h`j`Y`h`U`g`_`h`c`Y`b`g`i`f`Y`W`e`a`d`]U`b`W`"5`7`ci`fg`Y`5`i`h`c`f`]m`W`e`b`g`]X`Y`f`]b[`g`Z`"

: cf`YggYbh]U`gh XYbh]bZcfa Uh]cb`fY`Uh]b[`rc. `fYeI Ygrg`Zcf`YI hYbg]cb/fYj]Yk `cZa Uf_g/cVW dUh]cbU`\\YU`h
UbX`gUZ`hm/YI Ua]bUh]cb`dfcW`Xi fYg/gdYW]U`W`bg]XYfUh]cb`]b`h`Y`Yj YbhcZ]`bYgg`cf`a]gUXj Ybh fY/
gh XYbhYeI]mUbX`X]gUV`]m`UbX`ch`Yf`YggYbh]U`UWXYa]W]bZcfa Uh]cbž

7ci fgY'8YHJ]`g

7fYX]hDc]bng`*`

Gi a a UfmicZh\Y'7ci fgY

Gi VYWh5fYU.`? ge[U

H\]g`Wci fgY`]b`gci bX`hYWXbc`c[mUbX`]hg`WYUhj Y`Udd`]WUhcBg`Vi]Xg`cb`hY`g_]`g`XYj Y`cdYX`]b
A I G7 &, \$' # 8 -5%\$\$) " Mci `k]``\Uj Y`hY`cddcfh b]mhc`Yj U`i UH`U`fUb[Y`cZWcbWdh U`zghm]gh]WUbX

hY`]bXi gfmghUbxUfX`dfcZ'gg]cbU`'gci bX`gh X]cg"

⇒YU`mhY`Gh X]c`WUggYg`k]`VY`ghfYUa YX`VmgY`ZgY`YW]cbžUWwcfX]b[`hc`hYwXb]WU`dfcZ]WYbWñ

5ggYgga Ybh

Q-YFY'mci 'WUbc'i h]bY'UbmFY'Yj Ubh]bZcfa Uh]cb'hUhk Ug'bc]bWl XYX']b'5 A G'Vi ha Umidfcj Y'\Y'dZ' 'Zcf mci f'gh XYbhg": cfYI Ua d'Yžmci 'a][\hdfcj]XY'XYHJ]g'cb'hY'fYZfYbW]b['gmghYa ž']b_g'hc'dfYj]ci g gh XYbhYI Ya d'Ufg'cf'hY'XYg][bUH'X'k YY_]]b'hY'Włi fgY'hUhmc'i 'k]'X]gW gg'hY'UggYgga YbhUh'Yb[h" a dcfUbh'mž'h]g'gYW]cb']g'Ub'UfYU'Zcf'mci 'hc'dfcj]XY']bZcfa Uh]cb'hUhXcYg'bc]b[c'h'fci [\ 'hY'Uddfcj YX [cj YfbUbW'g'f'i W'i fY"Q

5ggYgga YbhHUg_g'

5ggYgga YbhHUg_	K Y][\ h	8i Y'8UH'	Gh XYbh@YUfb]b[Ci hWła Yg'5ggYggYX
F YZYW]j Y'>ci fbU'	' \$i	&#%\$- #&\$% '%%) - 'DA	%ž
Gh X]c'F YWłfX]b['Dfc YWłi	&\$i	' #&\$- #&\$% '%%) - 'DA	%ž
7ca dcg]h]cb'Dfc YWłi) \$i	%- #&\$#&\$% '\$) . \$\$'DA	%ž&ž

5ggYgga Ybh8YHJ]g

5ggYgga Ybh% F YZYW]j Y'>ci fbU'

GHUfhXUH'. 'K YY_'m

@Yb[h. ' &, \$\$'k cfXg

8YHJ]g. 'F YZYW]j Y'>ci fbU'ž&, \$\$'k cfXgžgdFYUX'cj Yf'Y][\ h' ') \$'k cfX'ga U'Yf'fk YY_'mł'Ugg][ba Ybhg" H\YgY'Ugg][ba Ybhg'k]' 'Włbg]ghcZU'fYZYW]j YžW]h]W]žUbU'm]W]g'c'fhYggUmcb'Ub'Ugg][bYX'fł'fž]b'gca Y k YY_gžgY'žgY'YWłXł'YI hcf'gci bX'k cf_'K f]hY'b'žYXVUW_ 'UbX'bi a Yf]W] '[fUXY'žca 'h' hcf"

Hi fb]h]b'gYH]b[. 'H\]g'Ugg][ba Ybh]g'gi Va]hY'X'h'fci [\ 'Hi fb]h]b'UbX'ghi XYbhg'WU'bg'Y'Hi fb]h]b'ga]Uf]hm fYdcfng"

5ggYgga Ybh&. 'Gh X]c'F YWłfX]b['Dfc YWłh

GHUfhXUH'.

8YHJ]g. 'H\]g']g'U' [fci d'dfc YWłi]b'k \]Wł'WUgg'a Ya VYfg'fł d'hc' ' 'k cf_'hc[Yh'Yf'hc' Wł'a d'YH'U'ghi X]c fYWłfX]b['d'fc YWłi' H\Y'i gY'cZ'hY'ghi X]c']g'gi V'YWłhc' d'Ugg][b['U'ghi X]c' d'fc]W]YbWłh'gh'k f]hY'b'žYXVUW_ 'UbX'bi a Yf]W] '[fUXY'žca 'h' hcf"

5ggYgga Ybh' . '7ca dcg]h]cb'Dfc YWłh

GHUfhXUH'. 'Bch5dd']WUV'Y

@Yb[h.) 'a]bg'ž'cbY'dU[Y'XYgW]d]h]cb

8YHJ]g. '7 fYUH'U'gi VghUb]U'cf][]bU'gci bX'Wł'a d'cg]h]cb'fUddfcł "'%\$'a]bgł'i g]b['X][]h' 'h'Wł'bc'c' []Ygž k \]Wł'XYa cbghfUH'g'Wł'b]XYbWł'UbX'cf][]bU']mik \Yb'k cf_]b[']b'hY'8][]h' '5i X]c'K cf_g]h]cb Ybj]fcb'a Ybh' 'H\]g']g'hY'ž]bU'UggYgga YbhHUg_'Zcf'UhY'bXUbWł' di fdcgYg"K f]hY'b'žYXVUW_ 'UbX'bi a Yf]W]'

[fUXY 'Zca 'hi hcf"

Gi Va]gg]cb'bcH'g.Gi Va]gg]cb'j]U'W'i fgY'Z'XYf'fW'a d'cg]]cbL'UbX'A ccXY'fHYI H

Gi Va]gg]cb'cZ5ggYgga YbhHUg_g

Gh XYbng'UFY'YI dYWX'hc'di hHAY'f'buA Yg'UbX'ghi XYbhbi a VYfg'cb'Yj YfmdU[Y'cZHY]f'Ugg][ba Ybng"

Hi fb]hb'Gi Va]gg]cb

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UHYa dh]b['hc'gi Va]hrci f'Ugg][ba YbhHfci [\ 'Hi fb]hbzd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-' ,) ' ' ' %cf'Ya U]'HYa 'cb'[YI HYfbU'HY'fji ddcfh4 i bgk "YXi "Ui "](#)Gi ddcfh
\ci fg'UFY' , .\$\$Ua '-'%. \$\$da 'cb'k YY_XUmg'UbX'-. \$\$Ua '-') . \$\$da 'cb'k YY_YbXg'f'*) 'XUmg'U'mYUfL'Zmci
UFY'i bUVY'hc'gi Va]hrci f'Ugg][ba YbhXi Y'hc'U'ZU' 'hk]H'Hi fb]hb'rci 'a UmUdd'mZcf'Ub'YI HYbg]cbZ'Vi hrci
a i ghfYHU]b'rci f'h]W_Yhbi a VYfZ'ca '9I HYfbU'Gi ddcfhfU'cb['k]H'UbmcH'Yf'fY'Yj UbhXcW a Ybng'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhrci f'YI HYbg]cb'Udd']W]hcb"-Zmci 'Ya U]'9I HYfbU'Gi ddcfhrci 'k]'
Ui 'ca UH]W' 'm'fYW'j] Y'U'h]W_Yhbi a VYfZ'Vi h]Zmci 'HY'Yd\cbY'mci 'k]' 'bYX'hc'gdYW]W' 'm'Ug'_Zf'cbY"
Hi fb]hb'U'gc'dfc]]XYgi dXUH'g'cb'HY]f'gmgHYa 'ghUH'g'cb'Hk]HYf"

; YbYfU'mZ'UggYgga YbhHUg_g'a i ghVY'gi Va]HYX'Y'YWfcb]W'mj]U'Y]H'Yf'Hi fb]hb'cf'U'A ccX'Y
Ugg][ba Ybh' 'b]bgHUbW'g'k \YfY'h.]g']g'bchidcgg]V'YZ'hk]'VY'g'UH'X'cb'mci f'Wci fgY'g'A ccX'Y'g]HY'k]H
U'HYfbUH] Y'gi Va]gg]cb'XYHU]g"

@UH'5ggYgga YbhDYbU'h]Yg

Gh XYbng'UFY'fYgdcbg]V'Y'Zcf'HY'gi Va]gg]cb'cZUggYgga YbhHUg_g'VmiHY'f'YeI]fYX'XUH'g'UbX'h'a Yg'
8YdYbX]b['cZHY'YI HYbhcZXY'Um]b'hY'gi Va]gg]cb'cZUb'UggYgga YbhHUg_g'dUghHY'Xi Y'XUH'UbX'h'a Yz
cbY'cZHY'Zc'ck]b['UH'dYbU'h]Yg'k]'Udd'mi b'Ygg'gdYWU'W'bg]XYfUH'cb'cf'U'V'Ub_YhYI HYbg]cb'Xi Y'hc'U
HYWb]W'ci HU] Y']g[fUbHYX": cf'HY'di fdcgY'cZ'UH'dYbU'm'W'W'UH]cbZ'U'XUm]g'XYYa YX'hc'VY'YUWX
&(!\ci f'dYf]cX'f'cf'dUfhHYfYcZ'dUghHY'gh]di 'UH'X'XYUX']bY'Zcf'gi Va]gg]cb"

- K cf_'gi Va]HYX'Ygg'h'Ub'%'\$'XUmg'UZH'f'h'Y'gh]di 'UH'X'XYUX']bY']g'gi VYWH'hc'U'XYXi W]cb'cZ
) i 'cZHY'hc'U'Uk UfXUV'Y'a Uf_'Zca 'h'Y'a Uf_'h'Uhk ci 'X'\Uj Y'VYYb'UWX]Yj YX']ZbchZcf'hY
dYbU'm'Zcf'Yj YfmXUmdUghHY'gh]di 'UH'X'XYUX']bY'Zcf'gi Va]gg]cb" H\UH]gZ'U'gh XYbhk \c'gi Va]hg
Ub'Ugg][ba Ybhk]H'U'gh]di 'UH'X'XYUX']bY'cZ(. \$\$da 'cb'%' 'A Um&\$%' 'Uh(. \$\$da 'cb'%' 'A Um&\$%'
k]']bW'f'U'XYXi W]cb'cZ%'\$i " "

HUg_'k]H'U'bc'b dYfW'bhU[Y'a Uf_

ZHY'HUg_]g'a Uf_YX'ci hcZ&) Z'HYb'UH'gi Va]gg]cb'k]'UH'fUWH'U'dYbU'm'cZU'XYXi W]cb'cZ%'&) Z'ca 'h'Y
a Uf_'Uk UfYX'hc'h'Y'gh XYbhZcf'Yj Yfm&(!\ci f'dYf]cX'f'cf'dUfhHYfYcZ'dUghHY'gh]di 'UH'X'XYUX']bY"

- K cf_gi Va]hYX %\$'hc '%- 'XUmg 'UZhf'h'Y'gh]di 'UhYX'XYUX`]bY'k]''VY'UggYggYX'UbX'ZYXVUW_dfcj]YXX'Vi hU'a Uf_cZnYfc'k]''VY'fYWcfYXX''Z'hY'k cf_k ci 'X'\Uj Y'fYW]j YX'U'dUgg'a Uf_Vi hZcf hY''UhY'bYgg'UbX'hY'k cf_]g'U'Wta di `gcfmWci fgY'Wta dcbYbhfli fX'Y'fYei]fYa YbHžU'ghi XYbhk]''VY'XYYa YX'hc'\Uj Y'a Yh'hUhfYei]fYa Ybh'
- K cf_gi Va]hYX '&\$'cfa cfY'XUmg 'UZhf'h'Y'gh]di 'UhYX'XYUX`]bY'k]''bchVY'UWW'dhYX'Zcf UggYgga YbhUbX'k]''fYW]j Y'bc'ZYXVUW_ž'a Uf_cf[fUXY''Z'hY'UggYgga YbhUg_]g'U'Wta di `gcfm Wta dcbYbhcZ'hY'Wci fgY'U'ghi XYbhk]''fYW]j Y'Ub'l bgUh]gZUWcfm: U]'fl : Ł'[fUXY'Ug'U'fYgi `hcZ i bgUh]gZUWcfmdYfZcfa UbVW`]b'Ub'YggYbh]U'Wta dcbYbhcZ'hY'Wci fgY''

H\]g`]bZcfa Uh]cb`]g'U'gc'Uj U]UV'Y'Uh

[\h\]g.#k k k "Ufmg"i bgk "YXi "Ui #W ffYbH\]ghi XYbhg#JWJXYa \]W\]bZcfa Uh\]cb#dfchWc`g!\[i \]XY`\]bYg#](#)

5 WUXYa]W<c bYghmUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b[`hY`k cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b[`hYa `Ug`mci f`ck b" `hWUb`hU`Y`a Ubm
Zcfa gZ`Zca `XY`]VYfUHY`WXYU]b[`hc`UWV]XYbhU`mW`dm]b[`Zca `U`gci fW`k]hCi hUW_bck`YX[Ya Ybh`

I BGK `[fci dg`d`U[]Uf]ga `]bhc`hY`Zc`ck]b[`WUHY[cf]Yg.

7 cdm]b[.`i g]b[`hY`gUa Y`cf`j Yfmg]a]Uf`k cfXg`hc`hY`cf][]bU`hYI hcf`]XYU`k]hCi hUW_bck`YX[]b[`hY
gci fW`cf`i g]b[`ei chU]cb`a Uf_g`"H\]g`U`gc`Udd`]Yg`hc`]a U[YgZ`UfhUbX`XYg][b`dfc`YWgZ`Ug`k Y`Ug
dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]g`UbchYf`g`]XYUg`cf`k cfXg`k]hCi hWYX]h`

hUddfcdf]UHY`dUfUd`fUg]b[.`7`Ub[]b[`U`ZYk `k cfXg`UbX`d`fUgYg`k \]Y`a cghmifYU]b]b[`hY`cf][]bU`
ghfi W`i fY`UbX`#`f`dfc[fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`Z`UbX`]bZcfa U]cb`k]hCi hUW_bck`YX[Ya Ybh`H\]g`U`gc
Udd`]Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`UbchYf`g`]XYUg`cf`k cfXg`k]hCi hWYX]hUbX`hc
d]YW]b[`hc[YhYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk `k \c`Yz`k]hCi hUddfcdf]UHY`fYZYfYbW]b["

7 c`i g]cb. `k cf_]b[`k]h`chYfg`Vi hdUgg]b[`cZ`hY`k cf_]Ug`U`dYfgcb`g`]bX]j]Xi U`k cf_"`7 c`i g]cb`U`gc

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hžI BGK 'Gh XYbh7cXY'cZ7cbXi WñUbX'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wñ
- VY'Uk UfY'cZñY'ghUbXUfXg'cZVY\Uj]ci f'YI dYWñX'cZYj Yfmcby']b'hY'I BGK 'Wca a i b]m
- `cWñh'gYfj]Wg'UbX']bZcfa Uhcb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZñYgY'UfYUg'k]`VY'ZJa]]Uf'hc'mci žcñYfg'k]`VY'byk "; U]b]b['U'gc`X'i bXYfghUbx]b['cZU`ñY fY'UH'X'UgdYWñ'cZ9@G9'k]`Y'd'mci 'a U_Y'hY'a cghcZmci f'gh X]Yg'Uhl BGK "

[f\hd.#gi.VYWfi \]XYg" \]VfUfmi bkg "YXi "Ui #'\]gY#UVci h' \]gYŁ](#)

7 ci fgY'GWXYXi `Y

[J.Jyk.WUgg.ha.YhUV.Y](#)

H]a YhUV`Y`

8UHr	HmdY	7cbhYbh
K YY_%&'>i`m!&-'>i`m	6`YbXYX	K Y`W@a Y`h`GmbYf[]Yg]b`Gci bX`HYWkbc`c[m` D`YUgY`bchY`hUuU`hY`YWh fy`a Uhf]U`Zcf`h]g gi V`YWh]g`cb`]bY" : cf`h]g`k YY_ž`fi`VY`ci h]b]b[`hY`W@i fgYž`UbX`U` hY`]bZcfa Uh]cb`k]`VY`Uj U]UV`Y`cb`A ccX`Y`H\Yfy Ufy`bc`h`hcf]U`g`]b`k YY_%" .
K YY_&.`\$>i`m!) 5i [i gh	6`YbXYX	9bj]f bj]f

<p>cZfY`Uh]cog`h.Uh`h.YgY`k cf_g]`ja d`m'</p>		<p>VYYb`UddfcUW`YX`]b`Ui X]cZ`UbX`Wc]bg]XYf`h.Y`_]bXg cZfY`Uh]cog`h.Uh`h.YgY`k cf_g]`ja d`m']h]gmb`h.Yg]g`UbX`gmb`h.Ya]b`h.</p>
<p>K YY_+.`" GYd`hYa VYf!`- GYd`hYa VYf</p> <p>H\]g`k YY`_k Y`fYj]g]h]gmb`h.Yg]g`UbX`gmb`h.Yg]nYfg`Ug</p>	<p>6`YbXYX</p>	<p>Gmb`h.Yg]gYfg`UbX`7m`YfbYh]Vg</p> <p>H\]g`k YY`_k Y`fYj]g]h]gmb`h.Yg]g`UbX`gmb`h.Yg]nYfg`Ug gmg`hYa g`Zc`f`fYWc`bZ[i`f]b[`gci`bX`UbX`j]g]cb"</p> <p>@a`fW`G`kb`f`Vg]h`Vd`Vg]`X]b`Y`k a`d]g`Zadg`SdW eUZ`Wg`VW`Xad`fZW`V`y`f`Zd`WW [a`z</p>

		chYffg ZbU`Wca dclhcbg"
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