



MUSC3704

DYfZcfa UbWV '@JvcfUhc fm* 'f7 fyUHj Y 'DfUWjWV #A i g]W
DYXU[c[mŁ

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

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5 WUXYa]WbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[`hc. fYei Yghg`Zcf`YI hYbg]cb/fYj]Yk `cZa Uf_g/cVW dUh]cbU``YU`h
UbX`gUZ`m/YI Ua]bUh]cb`dfcW`Xi fYg/gdYW]U`Wcbg]XYfUh]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a]gUXj Ybh fY/
ghi XYbhYeI]mUbX`X]gUV]`]m`UbX`ch`Yf`YggYbhU``UWUXYa]W]bZcfa Uhcbž
gYY`[\fhdg.##k k "Ufng"i bgk "YXi "Ui #W ffYbhghi XYbhg#UWUXYa \]W\]bZcfa Uhcb#dfcfcWc`gl`i \]XY`\]bYg#](#)

7 ci fgY'8YHJ]`g

7 fYX]hDc]bng`*`

Gi a a UfmicZ`h`Y'7 ci fgY

Gi V`Y`W`i`5`f`Y`U`?` ge[U

⊕`h`g`V`e`i` fgY`m`e`i` `k`]`V`e`b`h`b`i` Y`h`c` `XY`j` Y`c`d`m`e`i` f`g`d`Y`W`U`]g`h`g`_]`g`]b`]b`g`f`i` a` Y`b`h`U` `c`f`j` c`W`U` `d`Y`f`Z`c`f`a` Ub`V`W` `c`f`
d`Y`f`Z`c`f`a` Ub`V`W` `d`Y`X`U` [`c` [`m`i`c`f`V`e`a` d`c`g`]h`c`b`i` b`X`Y`f`h`Y` [`i`]X`U`b`W` `c`Z`U` `g`Y`Y`W`W`X` `d`f`j` U`H`Y` `h`i` h`e`f` `M`c`i` `k`]`U` `g`c`
f`Y`W`]j` Y` [`i`]X`U`b`W` `U`b`X` `W`]h`W`]g`a` `]b`d`Y`f`Z`c`f`a` Ub`V`W` `X`Y`j` Y`c`d`a` Y`b`h`i`h`f`c`i` [` `k` c`f`_`g` `l`c`d` `d`Y`f`Z`c`f`a` Ub`V`W`g` `U`b`X` `d`Y`Y`f`
f`Y`j`]Y`k` " `7` f`]h`W` `g`_]`g` `b`Y`W`g`g`U`f`m`Z`c`f` `]b`X`Y`d`Y`b`X`Y`b`h`i`Y`U`f`b`]b` [`U`g` `k` Y` `U`g` `V`e` `U`V`c`f`U`h`j` Y` `U`b`X` `Y`U`X`Y`f`g` `]d` `g`_]`g`
b`Y`W`g`g`U`f`m`Z`c`f` `Y`Z`Y`W`]j` Y` `]b`h`Y`f`U`W`]c`b` `k`]h` `a` `i` `g`]W`]U`b`g` `c`Z`X`]Z`Y`f`b`h`g`d`Y`W`U`]n`U`h`c`b`g` `U`b`X` `]b`h`Y`f`g`h`g` `k`]`V`Y`
U`V`e`i`]f`Y`X` `h`f`c`i` [` `Y`b`g`Y`a` V`Y`Z`g`Y`a` `]b`U`f` `U`b`X` `k` c`f`_`g` `l`c`d` `d`U`f`h`W`]d`U`h`c`b`"

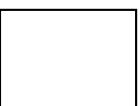
5 h`h`Y`V`e`b`W`i` g]c`b` `c`Z`h`g`V`e`i` fgY`h`Y`g`h`i` X`Y`b`h`k`]`V`Y`U`V`Y`h`c`

- %` 8`Y`a` c`b`g`h`f`U`H` `U`X`j` Ub`V`W`X` `a` `i` `g`]W`d`Y`f`Z`c`f`a` Ub`V`W` `g`_]`g` `h`f`c`i` [` `Y`b`g`Y`a` V`Y` `d`Y`f`Z`c`f`a` Ub`V`W`
- &` 8`Y`a` c`b`g`h`f`U`H` `g`h`m`]g` `U`b`X` `]b`Z`c`f`a` Y`X` `d`Y`f`Z`c`f`a` Ub`V`W` `g`_]`g` `h`f`c`i` [` `h`Y` `d`f`Y`g`Y`b`h`U`h`c`b` `c`Z`U` `d`f`U`W`]W`
Y`I`U`a` `]b`U`h`c`b` `d`Y`f`Z`c`f`a` Ub`V`W` `c`Z`&` `!` ` \$` `a` `]b`i` `h`Y`g` `X`i` `f`U`h`c`b`
- '` " `8`Y`a` c`b`g`h`f`U`H` `d`Y`f`W` `d`h`j` Y`Z`g`Y`b`g`]h`j` Y` `U`b`X` `]b`Z`c`f`a` Y`X` `d`Y`Y`f` `a` Y`b`h`c`f`]b` [`g`_]`g` `h`f`c`i` [` `k` c`f`_`g` `l`c`d`d`]b` [`U`
d`Y`Y`f`g` `d`Y`f`Z`c`f`a` Ub`V`W`
- (` " `F`Y`V`e` [`b`]g`Y` `U`b`X` `V`e`a` d`U`f`Y` `U` `V`f`c`U`X` `f`U`b` [`Y` `c`Z`f`Y`d`Y`f`h`c`]f`Y` `]b`j` `U`f`]Y`X` `d`Y`f`Z`c`f`a` Ub`V`W` `g`h`m`Y`g`

H`Y`U`W`X`]b` [`G`h`f`U`H` [`]Y`g`

H`Y` `h`Y`U`W`X`]b` [`g`h`f`U`H` [`m`U`b`X` `f`U`h`c`b`U`Y` `]g` `U`]a` Y`X` `U`h`V`e`b`g`c` `]X`U`h`b` [`h`Y` `a` `]Y`g`h`c`b`Y`g` `U`W`X`]Y`j` Y`X` `]b` `D`Y`f`Z`c`f`a` Ub`V`W`
@`U`V`c`f`U`h`c`f`m`V`e`i` fg`Y`g`%`d`) `U`b`X` `Z` `f`h`Y`f` `X`Y`j` Y`c`d`]b` [`V`e` `U`V`c`f`U`h`j` Y`Z`Y`j` U`i` `U`h`j` Y` `U`b`X` `W`]h`W`]g`_]`g` " `H`c` `U`W`X`]j` Y` `h`]g`
h`Y` `X`Y`]j` Y`f`m`i`g`h`f`U`H` [`m`]b`W`i` X`Y`g`.

- &(` ` `l`c`i` fg` `c`Z`Y`b`g`Y`a` V`Y` `f`U`]b`]b` [`Z`k` `]W`X` `Z`c`W` `g` `c`b` `V`e` `U`V`c`f`U`h`j` Y` `g`_]`g`
- , ` `l`c`i` fg` `c`Z`Y`W`h`i` f`Y`g`#` c`f`_`g` `l`c`d`g`Z`k` `]W`X` `Z`c`W` `g` `c`b` `]g`h`Y`b`]b` [`U`b`X` `V`e` `U`V`c`f`U`h`j` Y` `g`_]`g`
- , ` `l`c`i` fg` `c`Z` `d`f`U`W`]W` `d`Y`f`Z`c`f`a` Ub`V`W` `k` c`f`_`g` `l`c`d`g`Z`k` `]W`X` `]b`j` `c`]` Y`X` `g`h`i` X`Y`b`h`d`Y`f`Z`c`f`a` Ub`V`W`Z` [`f`c`i` `d`
X`]g`W`g`g`]c`b` `U`b`X` `d`Y`Y`f` `f`Y`j`]Y`k` `g` `h`U`h`d`f`Y`d`U`f`Y` `h`Y` `g`h`i` X`Y`b`h`Z`c`f` `h`Y` `d`f`U`W`]W` `Y`I`U`a` `]b`U`h`c`b`
- %`\$` `l`c`i` fg` `c`Z`]b`X`]j`]X`i` U` `Y`g`g`c`b`g` `k`]h` `U` `d`f`j` U`H`Y` `]b`g`f`i` a` Y`b`h`U`Z`j` c`W`U` `c`f`V`e`a` d`c`g`]h`c`b`]b`g`f`i` W`c`f` `f`Z`c`f`
7`f`Y`U`h`j` Y` `D`f`U`W`]W` `g`h`f`Y`U`a` `g`h`i` X`Y`b`h`g` `c`b` `m`e`"



Gi Va]gg]cb'cZ5ggYgga YbhHUg_g

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

Hi fb]hb'Gi Va]gg]cb

Zmci 'YbWci bHY'U'dfcV'Ya 'k \Yb'UHYa dh]b['hc'gi Va]hrci f'Ugg][ba Ybh'fci [\ 'Hi fb]hbzd'YUgY
HY'd\cbY'9I HYfbU'Gi ddcf'hc'b-' ,) "' ' ' %cf'Ya U]'HYa 'cb'[YI HYfbU'HY'f'gi ddcf'f4 i bgk "YXi "Ui "](#)"Gi ddcf'
\ci fg'UFY' , .\$\$Ua '-%\$. \$\$da 'cb'k YY_XUmg'UbX'-. \$\$Ua '-) . \$\$da 'cb'k YY_YbXg'f'*) 'XUmg'U'mYUf'Zmci
UFY'i bUV'Y'hc'gi Va]hrci f'Ugg][ba YbhXi Y'hc'U'ZU' 'hk]H'Hi fb]hb'mci 'a UmUdd'm'Zcf'Ub'YI HYbg]cb'Z'Vi hrci
a i ghfY'U]b'mci f'h]W'Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcf'f'U'cb['k]H'Ubmc'HY'f'f'Y'Yj Ubh'Xc'W a Ybng'hc'
]b'Wi XY'Ug'Yj]XYb'W'hc'gi ddcf'hrci f'YI HYbg]cb'Udd']W]h'cb"-Zmci 'Ya U]'9I HYfbU'Gi ddcf'hrci 'k]'
Ui 'ca U]W'U'm'f'Y'W'j Y'U'h]W'Yhbi a VYf'Z'Vi h]Zmci 'HY'd\cb'Y'mci 'k]'b'Y'X'hc'gd'Y'W'Z'W'U'm'Ug'_Zcf'cb'Y"
Hi fb]hb'U'gc'd'fc]]XY'gi dXU'Y'g'cb'HY]f'gmg'Y'a 'gh'U'h'g'cb'Hk]HY'f"

; YbYfU'm'Z'UggYgga YbhHUg_g'a i ghVY'gi Va]HY'X'Y'Y'W'f'cb]W'U'mj]U'Y]H'Y'f'Hi fb]hb'cf'U'A ccX'Y
Ugg][ba Ybh'f'f']bg'U'ub'W'g'k \Y'f'Y'h']g']g'b'chid'cgg]V'Y'Z'hk]'VY'g'U'HY'X'cb'mci f'Wci fg'Y'g'A ccX'Y'g]HY'k]H'
U'HY'fb'U]j Y'gi Va]gg]cb'XY'U]g"

@UH'5ggYgga YbhDYbU'h]Yg

Gh XYbng'UFY'fYg'd'cbg]V'Y'Zcf'HY'gi Va]gg]cb'cZUggYgga YbhHUg_g'Vmi'HY'f'Yei]fY'X'XU'HY'g'UbX'h'a Yg'
8Yd'YbX]b['cZ'HY'YI HY'bh'cZXY'Um]b'h'Y'gi Va]gg]cb'cZUb'UggYgga YbhHUg_g'dUgh'HY'Xi Y'XU'HY'UbX'h'a Yz'
cb'Y'cZ'HY'Z'ck]b['UH'd'Yb'U'h]Y'g'k]'Udd'mi b'Ygg'gd'Y'W'U'W'cbg]XY'f'U'h'cb'cf'U'V'Ub_Y'h'YI HY'bg]cb'Xi Y'hc'U'
HY'W'b]W'ci HU[Y']g[f'Ub'HY'X": cf'HY'di f'd'cg'Y'cZ'U'HY'd'Yb'U'm'W'W'U'h]cb'Z'U'X'U'm]g'XY'Ya YX'hc'VY'Y'U'W'
&(!\ci f'dY'f]c'X'f'c'f'd'U'f'h'HY'f'Y'c'Z'd'U'gh'HY'gh]di 'UH'X'XY'UX']b'Y'Zcf'gi Va]gg]cb"

- K cf_'gi Va]HY'X'Y'gg'HY'Ub'%'\$'XUmg'U'Z'HY'f'HY'gh]di 'UH'X'XY'UX']b'Y']g'gi V'Y'W'hc'U'XY'Xi W]cb'cZ
) i 'cZ'HY'hc'U'Uk Uf'X'U'V'Y'a Uf_'Z'ca 'HY'a Uf_'H'U'hk ci 'X'\Uj Y'V'Y'Y'b'U'W'X]Yj YX']Z'b'ch'Zcf'HY'
d'Yb'U'm'Zcf'Yj Yfm'X'U'm'd'U'gh'HY'gh]di 'UH'X'XY'UX']b'Y'Zcf'gi Va]gg]cb" H\U'h]g'Z'U'gh'XY'bhk '\ci'gi Va]hg'
Ub'Ugg][ba Ybhk]H'U'gh]di 'UH'X'XY'UX']b'Y'cZ(. \$\$da 'cb'%' 'A Um'&\$%' 'Uh(. \$\$da 'cb'%' 'A Um'&\$%'
k]']b'W'f'U'XY'Xi W]cb'cZ%'\$i "

HUg_'k]H'U'bc'b dY'f'W'b'U] [Y'a Uf_

Z'HY'HUg_]g'a Uf_Y'X'ci hcZ&) Z'HY'b'UH'gi Va]gg]cb'k]'U'h'f'U'W'hi'U'd'Yb'U'm'c'Z'U'XY'Xi W]cb'cZ%'&) Z'ca 'HY'
a Uf_'Uk Uf'Y'X'hc'HY'gh'XY'bh'Zcf'Yj Yfm'&(!\ci f'dY'f]c'X'f'c'f'd'U'f'h'HY'f'Y'c'Z'd'U'gh'HY'gh]di 'UH'X'XY'UX']b'Y"

- K cf_gi Va]hYX %\$'hc '%- 'XUmg 'UZhf'h'Y'gh]di 'UhYX'XYUX`]bY'k]''VY'UggYggYX'UbX'ZYXVUW_dfcj]YX'Vi hU'a Uf_cZnYfc'k]''VY'fYWcfYX'Z'hY'k cf_k ci 'X'\Uj Y'fYW]j YX'U'dUgg'a Uf_Vi hZcf hY''UhYbYgg'UbX'hY'k cf_]g'U'Wca di `gcfmWci fgY'Wca dcbYbhfli fX'Y'fYei]fYa YbHžU'ghi XYbhk]''VY'XYa 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'Wca di `gcfm Wca dcbYbhcZ'hY'Wci fgY'U'ghi XYbhk]''fYW]j Y'Ub'l bgUhgZUWcfm: U]'fl : Ł'[fUXY'Ug'U'fYgi `hcZ i bgUhgZUWcfmdYfZcfa UbVW`]b'Ub'YggYbh]U'Wca dcbYbhcZ'hY'Wci fgY''

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

[\hdg.##k k k "Ufng"i bgk "YXi "Ui #W ffYbHghi XYbmg#JWJXYa \]W\]bZcfa Uhcb#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]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hžI BGK 'Gh XYbh7cXY'cZ7cbXi WñUbX'5WwdfUV'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'jb'hY'I BGK 'Wca a i b]m
- `cWñh'gYfj]Wg'UbX'jbZcfa 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\hñ.#gi.VYWñ\[i\]XYg"\]VfUfm'i bgk "YXi "Ui #'\]gY#UVci h'lgYŁ](#)

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

BchUj U]UV`Y

F YWca a YbXYX`F Ygci fWg

Gh XYbkg`k]`VY`UXj]gYX`cb`gdYWZ]WfYUX]b[g`fYei]fYX`cb`U`fY[i `Uf`VUg]g"

7ci fgY`9j U`i Uh]cb`UbX`8Yj Y`cda Ybh

H\Y`Wti fgY`k]`VY`Yj U`i UhYX`h`fci [\ `a n9I dYf]YbW`ei Ygh]cbU]fY`]b`k YY_g`%%UbX`%&"`b`fYgdcbgY`hc`dfYj]ci g`gh XYbhZYXVUW_z`hY`@]ghYb]b[`HYghia UhYf]U`\Ug`VYYb`gi VghUbh]U`mVXUb[YX"

⇒ U[Y`7 fYX]h

H\]g`]a U[Y`]g`a mdfcdYfm"

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7cXY.`\$\$\$- , ;