



# MUSC2802

A i g]WGh X]c`HYUVX]b[

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

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





: cf`YggYbh]U`gh XYbh]bZcfa Uh]cb`fY`Uh]b[ `rc.`fYei Yg]g`Zcf`YI hYbg]cb/fYj ]Yk `cZa Uf\_g/cVW dUh]cbU`YU`h

7 ci fgY'8YHJ]`g

7 fYX]hDc]bhtg`\*`

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

Gi V`Y`W`i5fYU.`? ge[U

A i g]Wgh X]c`h`UW`X]b[ ]g`h`Y`[ UH`k Um`W`i fgY`Z`f`h`Y`A i g]WDYXU[ c[ midU`h`k Um]b`h`Y`6UW`X`c`f`cZA i g]W d`f`c[ fUa a Y`"H`Y`W`i fgY`]g`Z`W`gYX`c`b`]bghfi a YbH`U`UbX`j`cW`"h`UW`X]b[ ]UbX`"YUfb]b[ ]b`h`Y`d`f`j`U`H`g`h`X]c`gYH]b[ "M`c`i`k`]"a U`\_`Y`Z`fa U`c`V`g`Y`f`j`U`h`c`b`g`c`Z`Y`I`d`Y`f`h`Y`UW`X`Y`f`g`U`h`k`c`f`\_]b`h`Y`g`h`X]c`"D`U`f`U`"Y`"h`"h`]g`z`m`c`i`k`]"[ U]b`d`f`UW`X]W`"Y`I`d`Y`f`j`Y`b`W`"V`m`h`Y`UW`X]b[ ]UbX`d`f`Y`g`Y`b`h]b[ ]U`g`d`Y`W`X]c`Z`m`c`i`f`g`d`Y`W`U`"gh]bghfi a YbH`U`"UbX`j`cW`]g`\_]g`z`k`]h`d`Y`Y`f`Y`j`U`i`U`h`c`b`UbX`g`i`d`d`c`f`h`m`c`i`k`]"U`g`c`"Y`U`f`b`h`c`U`d`d`f`U]g`Y`z`Y`j`U`i`U`h`"UbX`"U`d`d`m`U`g`d`Y`W`X]c`Z`d`f`c`Z`g`g]c`b`U`"UbX`f`Y`g`Y`U`f`W`"b`c`k`"Y`X[ Y`U`g`m`c`i`"X`Y`j`Y`c`d`m`c`i`]"b`X]j`]X`i`U`"U`d`d`f`c`UW`X`Y`g`h`c`d`f`UW`X]W`"

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

- % 9I d`U]b`UbX`"X`Y`a`c`b`g`h`U`H`"h`Y`k`c`f`\_]b[ ]g`c`Z`h`Y`]f`g`d`Y`W`U`"gh]bghfi a Ybhtg`c`f`j`c]W`z`UbX`"U`f`Ub[ Y`c`Z`Z`b`X`U`a`Y`b`H`"a`i`g]W`"W`c`b`W`d`h`g`"
- &" F`Y`W`c`[ b]g`Y`"UbX`"W`]h`W`"m`U`g`g`Y`g`g`"U`j`U`f`]Y`m`c`Z`U`d`d`f`c`UW`X`Y`g`h`c`"h`Y`"h`UW`X]b[ ]UbX`"Y`U`f`b]b[ ]c`Z`a`i`g]W`z`h`f`c`i`[ \`f`Y`Z`Y`W`]c`b`c`b`h`Y`]f`c`k`b`"Y`I`d`Y`f`j`Y`b`W`z`d`f`c`Z`g`g]c`b`U`""]h`f`U`h`f`Y`"UbX`c`V`g`Y`f`j`U`h`c`b`g`c`Z`g`h`X]c`"Y`g`g`c`b`g`"
- ' " I`b`X`Y`f`g`h`U`b`X`z`Y`j`U`i`U`h`"UbX`"U`d`d`m`U`g`d`Y`W`X]c`Z`W`f`Y`b`h`f`Y`g`Y`U`f`W`"Z`W`g`Y`X`c`b`]bghfi a YbH`U`"UbX`j`cW`"Y`U`f`b]b[ ]UbX`"h`UW`X]b[ ]"

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

G`h`i`X`Y`b`h`k`]"`V`Y`[ ]j`Y`b`"Y`W`i`f`Y`]b`d`i`h`c`b`]g`g`i`Y`g`g`U`f`Y`X`"V`m`U`f`U`b[ Y`c`Z`g`d`Y`W`U`"gh]bghfi a Ybhtg`c`f`j`c]W`z`]b`W`i`X]b[ ]f`Y`Y`j`U`b`h`U`W`c`i`g`h]W`d`f`c`d`Y`f`h]Y`g`z`a`Y`W`X`U`b]W`"Z`b`W`]c`b`g`z`UbX`Z`b`X`U`a`Y`b`H`"a`i`g]W`"W`c`b`W`d`h`g`"H`Y`g`Y`k`]"`V`Y`"W`c`a`d`"Y`a`Y`b`h`X`"V`m`g`h`i`X`Y`b`h`d`f`Y`g`Y`b`h`U`h`c`b`g`]"b`"U`V`c`f`U`h`c`f`m`g`Y`h]b[ ]g`z`]"b`k`"X]W`"h`Y`m`k`]"`]b`f`c`X`i`W`z`X`Y`a`c`b`g`h`U`H`z`X]g`W`g`g`"UbX`"U`b`g`k`Y`f`e`i`Y`g`h`c`b`g`"U`V`c`i`h`h`Y`]f`c`k`b`]bghfi a Ybhtg`"G`h`i`X`Y`b`h`k`]"`d`U`f`h]W`d`U`H`"]b`k`c`f`\_`g`c`d`g`z`V`m`i`]j`]b[ ]b`X]j`]X`i`U`"Y`g`g`c`b`g`h`c`"Ub`c`h`Y`f`g`h`i`X`Y`b`h`c`b`h`Y`]f`g`d`Y`W`U`"gh]bghfi a Ybhtg`c`f`j`c]W`z`k`]h`d`Y`Y`f`"UbX`"h`h`c`f`Z`Y`X`V`U`W`"H`Y`m`k`]"`U`g`c`"U`j`Y`"h`Y`c`d`d`c`f`h`b]h`m`h`c`"Y`U`X`"h`Y`"W`U`g`g`[ ]f`c`i`d`"V`m`h`Y`UW`X]b[ ]"U`g`\_]""`@`Y`W`i`f`Y`]b`d`i`h`k`]"`Y`d`"h`c`d`f`Y`d`U`f`Y`g`h`i`X`Y`b`h`k`]Z`f`c`V`g`Y`f`j`U`h`c`b`g`c`Z`Y`I`d`Y`f`h`h`h`c`f`g`z`V`m]b`f`c`X`i`W]b[ ]g`g`i`Y`g`"UbX`a`Y`h`c`X`g`X`f`U`k`b`Z`f`c`a`"d`f`c`Z`g`g]c`b`U`"UbX`f`Y`g`Y`U`f`W`""]h`f`U`h`f`Y`"

...

# 5ggYgga Ybh

5b`Ugg][ ba YbhVf]YZk ]`UddYUf`cb`a`ccXY`Zcf`YUWX`UggYgga YbhUg\_"

## 5ggYgga YbhHUg\_g`

5ggYgga YbhUg_	K Y][ \h	8i Y`8UH`	Gh XYbh@YUfb]b[ Ci hWta Yg`5ggYggYX
9ggUm	( \$i	) #/\$#&\$% ` \$) . \$\$`DA	&Z
DcfhZ`]c`	* \$i	Bch5dd`]WUV`Y	%z&

## 5ggYgga Ybh8YHJ]`g

5ggYgga Ybh%`9ggUm

GhUfhXUH`. %\$#\$, #&\$% ` \$- . \$\$`5A

@Yb[ h. `&Z\$\$\$`k cfXg

8YHJ]`g. `9ggUmf&\$\$\$`k cfXgE`VUgYX`cb`Zcfa U`cVgYfj Uh]cbg`UbX`Wf]h]WU`UddfU]gU`cZ]bgfhi a YbhU`Yggcbg  
[ ] Yb`]b`h`Y`gdYWU]ghZ]Y`X`cZYUWX`ghi XYbh`H\Y`YggUmk ]`VY`UWwta`dUb]YX`Vmih`Y`cVgYfj Uh]cb`gWXYXi `Y  
XYj ]gYX`gdYW]Z]WU`mZcf`h`Y`di`fdcgY`cZ`h`Y`Yi`YfW]gY`K`f]h]b`fYdcfhdfcj ]XYX`"

Gi Va ]gg]cb`bchYg.Gi Va ]gg]cbg`UfY`Xi`Y`Uh%+\$\$`cb`h`Y`Xi`Y`XUH`"

Hi fb]h]b`gYH]b[ . H\]g`Ugg][ ba Ybh]g`gi Va ]h]X`h`fci [ \`Hi fb]h]b`UbX`gh XYbhg`Xc`bchgYY`Hi fb]h]b  
g]a ]Uf]h]mifYdcftrg"

5ggYgga Ybh&`DcfhZ`]c`

GhUfhXUH`. `Bch5dd`]WUV`Y

@Yb[ h. ` ` `I`%\$\$\$`k cfXg

8YHJ]`g. H\`fY`d]YW]g`fY`UH`X`h`c`h`Y`UWX]b[ `]b`h`Y`gh XYbhg`gdYWU]ghUfYU`h`Uha`Um]bWi`XY`Yj ]XYbW`cZ  
UbX`Wf]h]WU`fYZYW]cb`cb`h`UWX]b[ `UW]j ]m` ` `I`%\$\$\$`k cfXgZ`&\$`Z`&\$`Z`&\$` ` `H\]g`]g`h`Y`Z]bU`UggYgga Ybh  
hUg\_`K`f]h]b`fYdcftrg`k ]`VY`[ ] Yb`Zcf`YUWX`cZ`h`Y` `d]YW]g`"

5XX]h]cbU`XYHJ]`g.

GYY`7`ci`fgY`gWXYXi`Y`Zcf`Xi`Y`XUH`g`"

Gi Va ]gg]cb`bchYg.Gi Va ]gg]cbg`UfY`Xi`Y`Uh%+\$\$`cb`h`Y`Xi`Y`XUH`"

# 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]hb'z'd'YUgY  
HY'd\cbY'9I HYfbU'Gi ddcf'hc'b'-' , ) ' ' ' %cf'Ya U]'hYa 'cb'[YI HYfbU'HY'f'gi ddcf'f' i b'gk "YXi "Ui "](#)Gi ddcf'h  
\ci fg'UFY' , .\$\$Ua '-'%. \$\$da 'cb'k YY\_XUmg'UbX'-. \$\$Ua '-') . \$\$da 'cb'k YY\_YbXg'f'l \*) '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'rci 'a UmUdd'm'Zcf'Ub'YI HYbg]cb'z'Vi hrci  
a i ghfY'U]b'rci f'h]W\_Yhbi a VYf'Zca '9I HYfbU'Gi ddcf'h'U'cb[ 'k ]h'Ubmc'h'Y'f'f'Y'Yj Ubh'Xc'W a Yb'ng'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]h'W' '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' 'm'Ug'\_Zcf'cb'Y"  
Hi fb]hb'U'gc'd'fcj ]XY'gi dXU'Y'g'cb'h'Y]f'g'm'g'h'Ya 'gh'U'h'g'cb'Hk ]h'f'"

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

## @UH'5ggYgga YbhDYbU'h]Yg

Gh XYbng'UFY'f'Yg'd'cbg]V'Y'Zcf'h'Y'gi Va ]gg]cb'cZUggYgga YbhHUg\_g'Vmi'h'Y'f'YeI ]f'Y'X'XU'Y'g'UbX'h'a Yg'  
8Yd'YbX]b[ 'cZ'HY'YI HY'h'bcZXY'Um]b'h'Y'gi Va ]gg]cb'cZUb'UggYgga YbhHUg\_g'dUgh'h'Y'Xi Y'XU'Y'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'bg]XY'f'U'h'cb'cf'U'V'Ub\_Y'h'YI HYbg]cb'Xi Y'hc'U'  
HY'W'b]W' 'ci ]U[ Y' ]g[ 'f'Ub'h'X'": cf'h'Y'di f'd'cg'Y'cZ'U'Y'd'Yb'U'm'W'W'U'h]cb'z'U'X'U'm]g'XY'Ya YX'hc'VY'YU'W'  
&(!\ci f'd'Y'f]c'X'f'c'f'd'U'f'h'Y'f'Y'c'Z'd'U'gh'h'Y'g'h]di 'UH'X'XY'UX']b'Y'Zcf'gi Va ]gg]cb"

- K cf\_'gi Va ]h'X'Y'gg'h'Ub'%'\$'XUmg'U'Z'h'f'h'Y'g'h]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 U'f'X'U'V'Y'a U'f'\_Zca 'h'Y'a U'f\_'h'U'hk ci 'X'\Uj Y'V'Y'Y'b'U'W'X]Yj YX']Z'b'ch'Zcf'h'Y'  
d'Yb'U'm'Zcf'Yj Y'f'm'X'U'm'd'U'gh'h'Y'g'h]di 'UH'X'XY'UX']b'Y'Zcf'gi Va ]gg]cb'" H\U'h]g'z'U'gh'XY'bhk '\c'gi Va ]hg  
Ub'Ugg][ ba Ybhk ]h'U'g'h]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%'\$' "

HUg\_'k ]h'U'bc'b d'Y'f'W'b'U[ Y'a U'f\_

Z'h'Y'HUg\_]g'a U'f\_Y'X'ci hc'Z&) z'h'Y'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 'h'Y'  
a U'f\_'Uk U'f'Y'X'hc'h'Y'g'h]XY'bh'Zcf'Yj Y'f'm'&(!\ci f'd'Y'f]c'X'f'c'f'd'U'f'h'Y'f'Y'c'Z'd'U'gh'h'Y'g'h]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 ]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 bgUhgZUWcfm: U]'fl : Ł'[ fUXY'Ug'U'fYgi `hcZ i bgUhgZUWcfmdYfZcfa UbVW`]b'Ub'YggYbh]U'Wta 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 XYbng#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 ]h`ci 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 ]h`ci 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 ]h`ci 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 ]h`ci 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 ]h`ci hWYX]hUbX`hc  
d]YW]b[ `hc[ YhYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk `k \c`Yz`k ]h`ci 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][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci f'W'g'Dc`]W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dY'W'X'cZYj Yfmcby']b'hY'I BGK 'W'a a i b]m
- 'cW'W'h'gYfj ]W'g'UbX' ]bZ'fa U'h'cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k ]''VY'ZJa ]]Uf'hc'mci ž'c'hY'fg'k ]''VY'byk "'; U]b]b[ 'U'gc`X'i bXYfghUbx]b[ 'cZU''hY fY'UH'X'UgdY'W'g'cZ9@-G9'k ]''\Y'd'mci 'a U\_Y'hY'a cghcZmci f'gh X]Yg'Uhl BGK "

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



F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

H\Y`Wci fgY`hI h]g`6i fk Y`z? "f&\$%&L`Gh X]c!VUgYX`]bghfi a YbU`YUfb]b[ "": Ufb\Ua .`5g\ [ UH`"

F YWca a YbXYX`F Ygci fWg

@]VfUfmgci fWg`k ]`VY`a UbU[ YX`h`fci [ \`h`Y`@Y[ Ubrc`gmghYa`cb`h`Y`Wci fgY`a ccX`Y`g]h`"

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

: cfa U`Yj U`i Uh]cbg`k ]`VY`gci [ \`h`Uh`h`Y`YbX`cZgYa Ygh`fz`UbX`]bZcfa U`ZYXVUW`UbX`ei Ygh]cbg`k ]`VY`k Y`Wca Y`UhUbmi]a Y`"

=a U[ Y`7 fYX]h

6cX]Yg`/`b`h`f`Z`U`W`g`&\$%\*`

7F =>CG

7F =>CG`Dfcj ]XYf`7cXY`.\$\$\$- , ;`