



# MUSC4101

7 f]h[VWU` ðj Ygh[ Uh]cb`]b`A i g]W

HYfa `C.bY`#`&\$%-



GWcc`cZHAY`5ftg`UbX`A YX]U`#`I BGK `5ftg`UbX`GcWU`GWYbWg

7 ci fgY`Cj Yfj ]Yk

`GHUZZ7cbhUWh8YHJ`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j U]UV] ]m	@cWjhcb	D\cbY
A ]WUY`<ccdYf	a "\ccdYf4 i bgk "YXi "Ui	6mUddc]bha Ybh fYa U]`a Yt		

7 ci fgY'8YHJ]`g

7 fYX]hDc]bHg '\*`

Gi a a UfmcZ\hY'7 ci fgY

Gi VYWh5fYU.'? ge[U

H\Y`Wci fgY`Wca d`YHg`hY`dfc[ fUa `cV`YW] Yg/ ]hYbUV`Yg`mci `hc`XYa cbghfUH`mci f`a UghYfmcZ\hY X]gW]d`]bY!gdYW]Z]W\_bck`YX[ Y`hUhmci `Uj Y`XYj Y`cdYX`hfc[ [ \ci h\hY`XY[ fYY" `h`hY`Wci fgY`mci `k ]` XYVUH`UbX`X]gW gg`g][ b]Z]W]bhdV`Ya g`]b`hY`Z]Y`Xzk ]h`Uf[ i a YbHg`VUgYX`cb`\_YmUfh]WYgžgW`fYg`UbX fYW`fX]b[ g" `h`g`k Um]hdV`c]XYg`U`Z`fi a `Z`f`mci `hc`]b]Ygh[ UH`UgdYW]g`cZa i g]W\hUhZ`fa `W ffYbh gW`c`Uf`mX]gU[ fYYa YbHg" `Mci `k ]`U`gc [ U]b`]b!XYd\`ZJa ]`]Uf]m]k ]h`Uj Uf]YfmcZUddfcUW`Yg`hc`a i g]W]b ]hg`]b`hY`fX]gW]d`]bUf`m`W`b`h`i`h`

7 ci fgY`@YUfb]b[ `Ci hWca Yg

%` 5fh]W`UH`XYW]g]cbg`UVci hgY`YW]b[ `U`gdYW]Z]WUddfcUW`hc`f][ cfc] g`m]b]Ygh[ UH`U` [ ]j Yb`a i g]W] dV`c]V`Ya `dfYgYbh]b`h`Y`X]gW]d`]bY"  
&" 8Ya cbghfUH`U`W]h]W`i bXYfghUbX]b[ `cZW ffYbha i g]W`c[ ]W`XYVUH`g`UVci ha i g]W`  
' " 7cbf]Vi h`hc`XYVUH`VmX]g]b[ `hY`W] W]U`]bZ`fa U]cb`Z`ca `X]j Yf[ Ybh]XYUg`]b`di V`]g\YX`k cf`ž ]bW] X]b[ ž`dYfZ`fa UbW]gž`fYgYUfW]ž`fYW`fX]b[ gž`UbX`gW`fYg"

HYUW]b[ `GhfUH[ ]Yg`

9UW`YWh fY`k ]`]bfcXi W`U`hcd]W`5h`YUghk c`X]ZYfYbhUf[ i a YbHg`k ]`VY`dfYgYbhXž`dfcV`Ya U]g]b[ `U W`bW`d]ž`XYUž`d\]cgcd`mž`cf`a Yh`cX" `H\Y`YWh fY`k ]`]b`h`g`k Um]bfcXi W`YUW`k YY`fj`fYUX]b[ ž`UbX cdYb`i d`dcgg]V]`]hYg`Z`f`X]gW gg]cb`UbX`XYVUH`]b`hY`gYa ]bU"

h`YUW`gYa ]bUf`g]i XYbHg`k ]`XYVUH`UbX`X]gW gg`hY`]XYUg`dfYgYbhX`]b`hY`YWh fY`ž`k ]h`fYZ`fYbW`hc`hY`f`fYUX]b[ "


F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

F YWca a YbXYX`F Ygci fWg

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

: YY`ZY`hc`hU`\_`hc`a Y`UVci hH`Y`Wci fgY`hfc [ \ci hH`Y`h`fa "H\YfY`k ]`VY`U`A m9I dYf]YbW`gi fj YmUhH`Y`YbXzVi h]b`a mYI dYf]YbW`h`Y`a cghi gYZ` ``ZYXVUW`\_`hU`\_Yg`h`Y`Zcfa` `cZU`Wcbj YfgUh]cb"

Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

Hi fb]hb`Gi Va ]gg]cb

Ʒmci`YbWci`bhYf`U`dfcV`Ya`k`Yb`U`H`Ya`dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybh`h`fci`[`\`Hi`fb]hb`z`d`YUgY`  
H`Y`d`l`cb`Y`9I`H`f`b`U`Gi`ddcfh`cb`-`,`)``%`cf`Ya`U]`h`Ya`cb`YI`H`f`b`U`H`f`gi`ddcfh`i`bgk`"YXi`"Ui`"Gi`ddcfh`  
`l`ci`fg`UfY`,`.\$\$Ua`-`%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`f`l`\*)`XUmg`U`m`Y`Uf`l`"Ʒmci`  
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybh`Xi`Y`hc`U`Z`U`h`k`]h`Hi`fb]hb`mc`i`a`Um`Udd`m`Z`f`Ub`YI`H`f`bg]cb`z`Vi`hmc`i`  
a`i`gh`f`Y`h]b`mc`i`f`h]W`Y`h`bi`a`VY`f`Z`ca`9I`H`f`b`U`Gi`ddcfh`f`U`cb[`k`]h`Ub`mc`h`Y`f`f`Y`j`Ub`h`X`c`W`a`Y`b`h`g`l`hc`  
]b`W`i`X`Y`U`g`Y`j`]X`Y`b`W`hc`gi`ddcfh`mc`i`f`YI`H`f`bg]cb`Udd`]W`h]cb"Ʒmci`Ya`U]`9I`H`f`b`U`Gi`ddcfh`mc`i`k`]`  
Ui`hc`a`U`h]W`m`f`Y`W`j`Y`U`h]W`Y`h`bi`a`VY`f`z`Vi`h]Z`mci`H`Y`d`l`cb`Y`mc`i`k`]`b`Y`Y`X`hc`gd`Y`W`Z`W`m`U`g`\_`Z`f`cb`Y`  
Hi`fb]hb`U`gc`d`fc`j`]X`Y`g`i`d`X`U`H`Y`g`i`cb`h`Y`j`f`g`m`g`h`Ya`g`h`U`h`g`i`cb`H`k`]h`Y`f`"

;`Yb`Y`f`U`m`z`Ugg`Y`gga`Y`bh`h`U`g`\_`g`a`i`gh`V`Y`gi`Va`]h`Y`X`Y`Y`W`f`cb]W`m`j`]U`Y`]h`Y`f`Hi`fb]hb`cf`U`A`cc`X`Y`  
Ugg][`ba`Y`b`h`h`b`]b`g`h`U`b`W`g`k`Y`f`Y`h`l`g`]g`b`ch`id`c`g`g]V`Y`z`]h`k`]`V`Y`g`h`U`H`X`i`cb`mc`i`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`  
U`h`f`b`U`h]`Y`gi`Va`]gg]cb`X`Y`h]`g`"

:`cf`]b`Z`c`fa`U`h]cb`cb`l`ck`hc`gi`Va`]h`Ugg][`ba`Y`b`h`g`i`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`td`g`#`gh`X`Y`b`h`i`bgk`"YXi`"Ui`#`ack`!  
gi`Va`]h`Ugg][`ba`Y`b`h`a`cc`X`Y`"

## 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`Z`fa`g`z`Z`ca`XY`]VYfUHY`WXYU]b[ `hc`UW]XYbhU`mW`dm]b[ `Z`ca`U`gci`fW`k`]h`ci`hUW`bck`YX[ Ya`Ybh`

I`BGK`[`fci`dg`d`U[ ]Uf]ga`]b`hc`hY`Z`ck`]b[ `W]HY`[`cf]Yg.

7`cdm]b[.`i`g]b[ `hY`gUa`Y`cf`j`Yfmg]a`]Uf`k`cfXg`hc`hY`cf][`]bU`hY`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[ Yg`z`Uf`h`UbX`XYg][`b`dfc`YW`g`z`Ug`k`Y`U`g`dfYgYbhU]cbg`k`Y`fY`gca`YcbY`dfYgYbh]b[ `Ubc`h`Y`f`g`]XYUg`cf`k`cfXg`k`]h`ci`hW`YX]h`

hUddfcdf]UHY`dUfUd`fUg]b[.`7`U`b[ ]b[ `U`Z`k`k`cfXg`UbX`d`fUgYg`k`Y`a`cghmi`fY]b]b[ `hY`cf][`]bU`g]fi`W`fY`UbX`#`f`dfc[`fYgg]cb`cZ]XYUg`cZ`h`Y`cf][`]bU`z`UbX`]b`Z`ca`U]cb`k`]h`ci`hUW`bck`YX[ Ya`Ybh`H`g`U`gc`Udd`Yg`]b`dfYgYbhU]cbg`k`Y`fY`gca`YcbY`dUfUd`fUgYg`Ubc`h`Y`f`g`]XYUg`cf`k`cfXg`k`]h`ci`hW`YX]h`UbX`hc`d]Y]b[ `hc[`Y`h`Y`f`ei`chYg`UbX`dUfUd`fUgYg`]b`hc`U`b`Y`k`k`Y`c`Y`z`k`]h`ci`hUddfcdf]UHY`fY`Z`fY`b]b[ "

7`c`i`g]cb.`k`cf\_]b[ `k`]h`chYfg`Vi`hdUgg]b[ `cZ`h`Y`k`cf\_]Ug`U`dYfgcb`g`]bX]j`]Xi`U`k`cf\_"`7`c`i`g]cb`U`gc`]bW`i`XYg`dfcj`X]b[ `mci`f`k`cf\_]hc`Ubc`h`Y`f`gh`XYbh`VY`Z`fY`h`Y`Xi`Y`XU`h`z`cf`Z`f`h`Y`di`fdcgY`cZ`h`Ya`d`U[ ]Uf]g]b[ `Uh`Ubm]h]a`Y`z`dUm]b[ `Ubc`h`Y`f`dYfgcb`hc`dY`Z`ca`Ub`UW`XYa`]W]Ug`z`gh`U`]b[ `cf`UW`ei`]f]b[ `Ubc`h`Y`f`dYfgcb`g`UW`XYa`]W`k`cf\_]UbX`W`dm]b[ `]h`z`cZ]f]b[ `hc`W`ca`d`Y`h`Ubc`h`Y`f`dYfgcb`g`k`cf\_]cf`gYY\_]b[`dU`ma`Y`bh`Z`f`W`ca`d`Y`h]b[ `UW`XYa`]W`k`cf\_"

hUddfcdf]UHY`W]h]cb.`7`h]b[ `gci`fW`g`k`]W`U`j`Y`bch`VYYb`fYUX`z`k`]h`ci`hUW`bck`YX[ ]b[ `hY`gY`W`b`XU`fm`gci`fW`Z`ca`k`]W`\_bck`YX[ Y`cZ`h`Ya`U`g`VYYb`cV]b]bYX"

8`i`d`]W]h]cb`f`f`gY`Z`d`U[ ]Uf]ga`"L`gi`Va`]h]b[ `mci`f`ck`b`k`cf`z`]b`k`Y`cf`]b`dUf`z`k`Y`fY`]h`Ug`dYj`]ci`g`m`VYYb`dfY`dUfYX`cf`gi`Va`]hYX`Z`f`Ubc`h`Y`f`UggY`gga`Y`bhcf`W`ci`fgY`Uh`I`BGK`cf`Ubc`h`Y`f`i`b]j`Yfg]m`

7`c`f`Y`W`i`fY`Z`fY`b]b[ `dU`W]W]g.

- DUFUd`fUg]b[`z`gi`a`a`Uf]g]b[`z`YggUm`k`f]h]b[`UbX`h]a`Y`a`UbU[`Ya`Ybh`

- i bXYfgHUbX'mci f'f][ \hg'UbX'fYgdcbg]V] ]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wcdmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi WñUbX'5WwdfUV'Y'I gY'cZ  
I BGK '⇒H'F Ygci fW'g'Dc`]Wñ



5 WUXYa ]WbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[ `rc.

- fYei Ygh`ZcfYI hYbg]cb/