



## MUSC3104

7 cbhYa d`Uhjb[ `>Unn. `< ]ghc fmž`G hm`Y ž`F YW d hcb

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

7ci fgY`Cj Yfj JYk

`GHUZZ7cbhUWhi8YHJ`g`

`7cbj Ybcfg`

Ua i g i U

BUa Y	9a Uj`			



9a Uj`

BUa Ybcfg` 7cbhUWhi b cf c`

5 7 ci fgY 5i hcfjma UmYI W gY U'gh XYbhZca WUggYg'cf UWj jhYg Zcfi d'hc'cbY'a cbh" <ck Yj YfZ hYm

7 ci fgY'8YHJ]`g

7 fYX]hDc]bhr`\*`

Gi a a UfmcZ`hY'7 ci fgY

Gi VYWh5fYU. ? ge[U

G]bW`]hg`VY[ ]bb]b[ g`Ufci bX`U`W`bh fmU[ cz`Unn`Ug`V`bg]ghYbhmYbH`i gYX`]]ghYbYfg`k ]h`hY  
]bj Ybhj] YbYggZ`YI dfYgg]j YbYgg`UbX`j ]fh`cg]micZ]hg`dYfZcfa YfgZ`UbX`hY`j Uf]YmicZ]hg`ghmYg`"6Y[ ]bb]b[  
k ]h`5Z]Wb`5a Yf]Wb`VX`UbhgZ`Z]Y`X`c`YfgZ`YUf`mV`i Yg`UbX`i fVUb`X`UbW`Zcfa gZ`h]g`V`i fgY`fUW`g`U  
]ghc`fmcZ`hY`a i g]VZ`ci h]b]b[ `hY`XYj Y`cda YbhUbX`XYHJ]g`cZj Uf]ci g`ghmYg`cZ`UnnZ`Vc`h`]b`hY`i b]hYX  
G`hU`g`UbX`UVfc`UX`"HfUW]b[ `hY`W`Ub[ ]b[ `c`W]h]cbg`]b`k` \]W`hY`a i g]W`Ug`XYj Y`cd`YXZ`]h`YI`Ua ]bYg`hY  
fc`Yg`cZ]bX]j ]Xi U`Uf]ghg`UbX`a i g]W`U`V`"Y`W]j ]h]Yg`]b`hY`]b]bcj U]h]cb`cZ`ghmYg`" #i]bj Ygh[ ] U`hYg`hY  
X]ggYa ]bU]h]cb`cZ`Unn`h`fci [ \`Ya Yf[ ]b[ `a`YX]U`h`W`bc`c` ]YgZ`UbX`b`chYg`hY`]bZi YbW`cZ`chYf`a i g]W`cb  
`Unn`a i g]W]Ubg`d`cdi `Uf`a i g]VZ`f`n`h`a `UbX`V`i YgZ`gci `Z`fc`W`Z`W`Ugg]W`"a i g]W`UbX`k`cf`X`a i g]VZ`gi W`Ug  
@U]h]b`5a Yf]Wb`a i g]VZ`fYbW`[ `md]gma i g]VZ`Gci h`5Z]Wb`\_k`Y`U`UbX`a`VeUb[ U`"5g`Unn`Ug`VY`W`a`Y`hY  
g]W]b]h]U]h]b[ `gci bX`fUW`h`c`a`Ubmi`j YgZ`hY`V`i fgY`YI`Ua ]bYg`V`c`h`hY`dfUW]W`"i gY`cZ`Unn`Ug`gci bX`UbX  
]a U[ Y`]b`Z`a`Z`]h`fU`h`fY`UbX`hY`j ]gi U`Uf]hgZ`UbX`gca Y`cZ`hY`a`Ubma`Y`Ub]b[ g`]]ghYbYfg`Uj`Y`Ug`W]VYX`h`c`]h`  
H`Y`V`ei fgY`]b]h`c`Xi`W`g`mci `h`c`W]h]W`"XYV`U`hY`g`gi`f`fci`bX]b[ `Unn`"XYV`U`hY`g`cZ`fUW`Z`Ui`hY`b]h]W]mZ`ck`bYfg` \]dZ`  
[ YbXYf`UbX`V`c`a`a`Yf]W]U`n]U]h]cb`"H`Y`V`ei fgY`Yb[ U[ Yg`mci `]b`hY`dfc`W`gg`cZ]b`Zcfa`YX`]]ghYb]b[ "

5 h`hY`V`c`b`Wi`g]cb`cZ`h]g`V`i fgY`h`Y`gh`XYbhk`j`VY`UV`Y`h`c`

- % 8 YgW]VY`UbX`X]gW`gg`Unn`dYfZcfa`UbW`g`cZ`U`k`]XY`fUb[ Y`cZ`ghmYgZ`]b`]] YZ`a`YX]U`hY`X`UbX`  
]b]W]XYbH`V`c`b`h`i`h`g`
- &" 9I`d`U]b`hY`XYj`Y`cda`YbhUbX`fY`W`d]h]cb`cZ`Unn`ghmYg`]b`hYfa`g`cZ`hY`[ YbYf`g`]b]hYfbU`  
XYj`Y`cda`YbhZ`]hg`fY`U]h]cbg` \]dg`h`c`h`Yf`a`i`g]W`UbX`]hg`W`Ub[ ]b[ ` \]ghc`f]W`"UbX`gc`W]c`!W`"h`fU`  
W]fW`a`g`fU`b`W`g`"
- ' " 7 f]h]W`"m`YI`Ua`]bY`ei`Ygh]cbg`cZ`fUW`Z`Ui`hY`b]h]W]mZ`ck`bYfg` \]dZ`[ YbXYf`UbX`V`c`a`a`Yf]W]U`n]U]h]cb`h`Uh`  
]a`d]b[ Y`cb`X]gW`gg]cb`cZ`a`i`g]W`
- (" : cfa`i`U`hY`Z`g`h]Zmi`UbX`XYj`Y`cd`d`Ubg`Zc`f]b]bcj`U]h]Y`h`Ya`U]h]V` \]ghc`f]W`"cf`UbU`m]h]W`dfYg`Yb]h]cbg`cZ`  
UnnZ`Zc`f`U`k`]XY`fUb[ ]b[ `Ui`X]YbW`"H` \]g`g`\_]"a`Um`h`Yb`VY`Udd`]YX`h`c`h`Yf`a`i`g]W`" [ YbYf`g`"

HYUW]b[ `G`h`fU`hY`[ ]Yg`

@YWh`fYgZ`gi`ddc`f`hY`X`Vm`Ui`X]c]j`]gi`U`dfYg`Yb]h]cbZ`k`j`YI`Ua`]bY`hY` \]ghc`f]W`Z`gc`W]U`Z`UbX`Uf]h]gh]W`V`c`b`h`i`h`g`  
UbX`XYj`Y`cda`YbhicZ`Unn`"@YWh`fYg`k`j`"ci`h]bY`hY`V`Ug]W`g`cZ`a`i`g]W`"ghmYgZ`k` \]W`k`j`"VY`]bj`Ygh[ ] U`hY`X`]b`  
[ fY`U`hY`f`XY`HJ]Z`]b]h`c`Xi`W]b[ `UbX`fY`Z]b]b[ `Udd`f`c`d`f]U`hY`hYfa`]b`c`[ mZ`]b`W`c`gY`]]ghYb]b[ `gYgg]cbg`k`]h]b`  
h`h`c`f]U`g`"H`Y`gY`k`j`"XYj`Y`cd`mci`f`U`V`]h]m]h` \]ghc`f]W`"m`X`Y`g`W]VY`UbX`W]h]W`"m`X]gW`gg`Unn`dYfZcfa`UbW`g`  
cZ`U`k`]XY`fUb[ Y`cZ`ghmYg`"H`Y`gY`]]ghYb]b[ `gYgg]cbg`k`j`"ZYei`Ybhmi`Z`W`g`cb`k`cf`\_g`YI`Ua`]bYX`]b`\_Ym`  
fYUX]b[ gZ`h`i`g`]]b`\_]b[ `d`Uf]h]W`U`f`k`cf`\_g`UbX`ghmYg`h`c`W]h]W`"XYV`U`hY`g`gi`f`fci`bX]b[ `Unn`"Mci`f`X]gW`gg]cb`  
UbX`V`c[ g`cb`fYUX]b[ `UbX`]]ghYb]b[ `U`W]j`]h]Yg`k`j`"U`ck`mci`hY`c`ddc`f`h`b]h]m]h`XYj`Y`cd`UbX`XYa`cbgh`fU`hY`  
mci`f`i`bXYfg`h]UbX]b[ `cZ`Unn`Ug`gci`bX`UbX`Ug`gc`W]U`dfUW]W`" #!W`Ugg`fYUX]b[ gZ`j`Yk`]b[ g`UbX`X]gW`gg]cbg`  
cZ]hYfUfmi`UbX`Z]a`]W]fYdfYg`Yb]h]cbg`cZ`Unn`k`j`"gi`dd`Ya`Ybhmi`f`i`bXYfg`h]UbX]b[ `cZ`hY`fY`W`d]h]cb`cZ`Unn`  
UbX`hY`a`Y`Ub]b[ g`]]ghYbYfg`Uj`Y`X`fU`k`b`Zcfa`]h`"DYf]cX]W]YI`Ua`]bU]h]cb`cZ`Z`f]h]j`U`dfc[ fUa`gZ`fU`X]c`d`Um]ghgZ`  
fY`W`f`X]b[ `V`c`a`d]U]h]cbg`Y`h`W`k`j`"Y`d`mci`h`c`XYj`Y`cd`d`Ubg`Zc`f]b]bcj`U]h]Y`h`Ya`U]h]V` \]ghc`f]W`"cf`UbU`m]h]W`  
dfYg`Yb]h]cbg`cZ`Unn`"


5ggYgga Ybh' . 'DfYdUfUhc fmF YgYUfVX 'HUg\_

GHUfhXUHY. 'Bch5dd')WUV'Y

@Yb[ h. ') \$\$'k cfXg'dYf'V'c[

8YHU]'g. '5gg)[ bYX'fYUX]b[ g'UbX'X]gW gg]cb") \$\$'k cfXg'dYf'V'c[ "K f]HY'b'ZYXVUW'cb'fYUX]b[ 'gi a a Uf]Yg"

5XX]h]cbU'XYHU]'g.

5`'ghi XYbha i ghVta d'YH'%'V'c[ ']'b'YUWX'cZHY'Zc`ck ]b[ 'k YY\_g. '%cf'&Z' 'cf'(z) 'cf'\*Z+'cf', z%\$'fl ]j Y  
V'c[ g:]b'hcHU'z'9UWX'k YY\_'g'V'c[ 'fYUX]b[ g'k ]'VY'X]gW ggYX:]b'hY'h'hc f]U'']b'hY'Zc`ck ]b[ 'k YY\_'': cf'YUWX  
k YY\_z'mci 'bYXX'cb'mUXXfYgg'cbY'cZHY'Ugg)[ bYX'fYUX]b[ g"

9UWX'V'c[ ']g'Xi Y'cb'hY': f]XUmcZ]hg'k YY\_z'Uh) "\$\$'DA "

H\]g'hUg\_'UggYggYg''YUfb]b[ 'ci hVta Yg'&'UbX'("

# Gi Va ]gg]cb'cZ5ggYgga YbhHUg\_g

Gh XYbng'UFY'YI dYWX'hc'di hH'Y'f'buA Yg'UbX'ghi XYbhibi 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'h  
\ci fg'UFY' , .\$Ua '-%\$. \$da 'cb'k YY\_XUmj'UbX'-. \$Ua '-) . \$da 'cb'k YY\_YbXg'f'\*) 'XUmj'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'Z'ca '9I HYfbU'Gi ddcf'h'U'cb[ 'k ]h'Ubmc'h'Y'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]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]W'm'Ug'\_Z'f'cb'Y"  
Hi fb]hb'U'gc'd'fcj ]XY'gi dXU'Y'g'cb'h'Y]f'g'm'g'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'm'j ]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'U'Y'X'cb'mci f'W'ci fg'Y'g'A ccX'Y'g]h'k ]h'  
U'h'fb'U]h] Y'gi Va ]gg]cb'XY'U]g"

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

Gh XYbng'UFY'f'Y'g'd'cbg]V'Y'Z'f'h'Y'gi Va ]gg]cb'cZ'UggYgga YbhHUg\_g'V'm'h'Y'f'Yei ]f'Y'X'X'U'Y'g'UbX'h'a Yg'  
8Yd'YbX]b[ 'cZ'HY'YI HY'h'bcZ'XY'Um]b'h'Y'gi Va ]gg]cb'cZ'Ub'UggYgga YbhHUg\_g'd'Ugh'h'Y'Xi Y'X'U'Y'UbX'h'a Yz  
cb'Y'cZ'HY'Z'ck ]b[ 'UH'd'Yb'U'h]Y'g'k ]'Udd'mi b'Y'gg'gd'Y'W'U'W'cbg]X'Y'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'Y'U'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'Z'f'gi Va ]gg]cb"

- K cf\_'gi Va ]h'X'Y'gg'h'Ub'%'\$'X'Umj'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'\_Z'ca 'h'Y'a U'f\_'h'U'hk ci 'X'\Uj Y'V'Y'Y'b'U'W'X]Yj YX']Z'b'ch'Z'f'h'Y  
d'Yb'U'm'Z'cf'Yj Y'f'm'X'U'm'd'U'gh'h'Y'g'h]di 'UH'X'XY'UX']b'Y'Z'f'gi Va ]gg]cb" H\U'h]g'Z'U'gh'XY'b'hk \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%'\$i "

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 hcZ&) 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'ghi XY'b'h'Z'f'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 'UZhYf'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''UhYbYgg'UbX'hY'k cf\_]g'U'Wta di `gcfmWci fgY'Wta dcbYbhfi fX'Y'fYei ]fYa YbhZ'U'gh XYbhk ]''VY'XYa YX'hc'\Uj Y'a Yh'hUhfYei ]fYa Ybh'
- K cf\_gi Va ]hYX &\$'cfa cfY'XUmg 'UZhYf'h'Y'gh]di 'UhYX'XYUX`]bY'k ]''bchVY'UWW'dhYX'Zcf UggYgga YbhUbX'k ]''fYW]j Y'bc'ZYXVUW\_za Uf\_cf[ fUXY''Z'hY'UggYgga YbhUg\_]g'U'Wta di `gcfm Wta dcbYbhicZ'hY'Wci fgY'U'gh XYbhk ]''fYW]j Y'Ub'l bgUh]gZUWcfm: U]'fl : k'[ fUXY'Ug'U'fYgi `hcZ i bgUh]gZUWcfmdYfZcfa UbVW`]b'Ub'YggYbh]U'Wta dcbYbhicZ'hY'Wci fgY''

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

[\h\]g.#k k k "Ufmg"i bkg "YXi "Ui #W ffYb\]h\]gh XYbh\]g#JW\]XYa \]W\]bZcfa Uh\]cb#\]fchcWc`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 cghmifYhU]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]hU`bX`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'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' ]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.VYWf\[i\]XYg"\]VfUfm'i bkg "YXi "Ui #'\]gY#UVci h' \]gYŁ](#)

7 ci fgY'GWXYXi `Y

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

H]a YhUV`Y`

8UH	HmdY	7cbhYbh
<p>K YY_% '&amp;' 'i `m! '&amp;- 'i `m</p>	<p>@YWi fY</p> <p>Hi hcf]U`</p> <p>F YUX]b[</p>	<p>H\Y`5Z]WJb'fcchg'cZ`Unn""5ggYgga YbhiUg_% X]gW ggYX"</p> <p>Hi hcf]U`. `8 ]gW gg]cb`UbX`WUf]Z]WJhcb'cZ`h'fa ]bc`c[ m`</p> <p>ϕ!WUgg'fYUX]b[ . `A ` fZWDaSV`Vm&gt;UW_?Yfci UW`f#b! WUgg'fYUX]b[ g`k ]`VY`dcghYX'hc`hY`A ccX`Y`g]h`Uh`YUghU`k YY`VYZcfY`hY`h`hcf]U`k ]`cWW`f`8 ]][ Ybh`UbX`Yb`h`i`g]Ugh]Wgh`XYbhg`z`k ]h`k` \ca` `=g`U`VY`k`Y`d`YUgYX`z`k ]`fYUX`h`Y`g`Y`]b`UXj`UbW`L`</p> <p>5`F`95856@9`J`9F`G`€`B`C`:`H`&lt;`€`G7&lt;98I`@9`€`5J`5`@56@9`C`B`A`C`C`8`@9`</p> <p>.</p> <p>5gg][ bYX`F`YUX]b[ g.`6`c[ `Xi`Y`:`f]XUmK`YY`_%"</p> <p>;`f]X`Y`m`z`A`Uf`_`7`" `UbX`K`U`UW`F`Uj`Y`z`%`-`(`Hck`UfXg`⇒Ybh]Z]WJhcb'cZ5Z]WJb'HfU]hg`]b`9Uf`m&gt;Unn""F`Z`W`4`S`U]`B`W`d`e`b`W`U`f`h`W`[`?`ge[U`J`c`" `%`&amp;`z`B`c`" `"%`C`F`</p> <p>K`Ug` \Vi`fbY`z`7` \f]ghcd` \Yfz`%`-`+`"H\Y`7`Uj`Y`c`Z`&gt;Unn.`5`7`Uf]V`V`Y`U`b`7`cb`h`f]Vi`h`cb`h`c`h`Y`F` \m`h`a` ]W`:`ci`b`X`U`h`cb`c`Z`U`b`5`Z]WJb!`5`a`Y`f]WJb`A`i`g]W`" `4`S`U]`?`ge[U`D`V`e`V`S`d`J`Z`&lt;agd`S`↑`J`c`" `"%`+`z`B`c`" `"%`z`dd`")`-`!`,\$`</p>
<p>K YY_&amp;." \$'i `m!`)</p> <p>5i [i gh</p>	<p>Hi hcf]U`</p>	<p>Hi hcf]U`</p>

		<p>A cXYfb]ghg'cZ\Y '%- &amp;\$g" FZW? ge[US^ C gSdWkt J c""+, žBc" (ždd"* (*!**, 'CF</p> <p>f&amp;L'5gi _]YžH\UV]h'&amp;\$%\$ "&gt;"5" F c[ Yfgf'&gt;Unn'Uh &lt; ca Y". '5Zfc!5a Yf]WJb'&gt;Unn'jb'DUf]g'8i f]b[ 'hY &gt;Unn'5[ Y" FZW4 'SU] EUZa 'Sd' J c" ( \$žBc" ' ždd" &amp;&amp;' )"</p>
<p>K YY_( :% '5i [i gh! '%- 5i [i gh</p>	<p>Hi hc f]U' @YWi fy F YUX]b[</p>	<p>Hi hc f]U' @ghYb]b[ "C dYb'a ]W H\Y'Ya Yf[ YbW'cZ\Y'gc'c]ghž'cf "Fi a ci fg'cZa m XYUH'UfY'dfYa Uhi fy'j "%" 5gg][ bYX'F YUX]b[ g.'8i Y': f]XUmK YY_( f&amp;L'A W YYž? f]gh]b'&amp;\$\$, "H\Y': Ya ]b]nU]cb'cZA Ugg 7i 'hi fy'UbX'hY'Bcj Y'hmicZ5`!; ]f'6UbXg.'H\Y'7 UgY cZ\Y' b[ Ybi Yg"žBabg'Sd? ge[U S' V EaU]Wfk J c" ' %žBc" ) ždd"* &amp;- -* * &amp;"CF f&amp;L'Hi W_YfžG\Yff]Y' %- , "BcVcXm]g'Gk YYhYUf]g. ' YbXYfžF UWž'&gt;UnnžUbX'hY'8Uf]b[ g'cZF \m]a "" 3_ Wd[US' ? ge[Uf' J c""%žBc" ' ždd"&amp; ) !&amp;, "</p>
<p>K YY_( :&amp;\$'5i [i gh! '&amp; * 5i [i gh</p>	<p>Hi hc f]U' @YWi fy F YUX]b[</p>	<p>Hi hc f]U' b!WUgg'fYUX]b[ :A i a Vc'&gt;i a Vc'Vm g\ a UY'F YXX Gk ]b[ 'VUbXg'f'cf "Gca Y'cZ\hYgY'[ i mg]UfY'↑ gh]cc GK '99H"Ł" 5gg][ bYX'fYUX]b[ g.'8i Y': f]XUmK YY_( f&amp;L'5bXYfgcbžA Ui fYYb'&amp;\$\$( "H\Y'K \]h'F YWd]h]cb cZ&gt;Unn'jb'5a Yf]WJ"3X[US' 3_ Wd[US' DWh[W i'J c" ' , žBc""%dd"% ) !&amp;( ) 'CF f&amp;L'K ]'Yhž'F U'd\ '%, - "&lt;chGk ]b[ 'UbX'hY</p>

<p>K YY_+. " GYdhYa VYf! '- GYdhYa VYf</p>	<p>Hi hcf]U'</p>	<p>!WUgg'fYUX]b[. 'HS'S[VS'Vm7 UbXUW'5`Yb"</p>
	<p>@YWi fY</p>	<p>7 cc`UbX`UfX`Vcd"7 cUgtU`6]bUf]Yg"  : ]a`j`Yk`]b[. :3eUW eWgdbagd^ UZSXSgV/7`WhSfad fa fZW9 S^ai efz</p>
	<p>F YUX]b[</p>	<p>f%&amp;:6fcZg_mz'8Uj ]X`% , ' "A ]Yg'8Uj ]g`UbX`A m : i bbmJ U`Ybh]bY'. H\Y`9j c`i hcb`cZU`Gc`c"4`SU] ? ge[U DWeVSDJZ &lt;agd S↑j c`"" ždd`&amp;' !() "CF  f&amp;E`A ]`Yfz'8ci [ `%- -) "H\Y`A cUb`k ]h`]b`hY`HcbY. 5Z]W]b`F`Yh`b]cbg`]b`F` \m\`a` `UbX`6`i` Yg GUl cd\cbY`GmY`]b`5Zc!5a`Yf]W]b`Dcdi` `Uf`A`i`g]Wz</p>

<p>K YY_%. 'C VtVYf! '+ C VtVYf</p>	<p>@YWh fy F YUX]b[</p>	<p>Bc'WUgg!'@UVci f'8Um 5gg][ bYX'F YUX]b[ . '8i Y': f]XUmK YY_ '%\$ f%&amp;:Hca `]bgcb`ž; Ufm&amp;\$&amp;\$&amp;"7i `hi fU`8]U`c[ ]Mg`UbX &gt;Unn. '5`K ` \]H`&lt; ]ghcf]Ub`G][ b]Z]Yg" 4`SU` ? ge[U D WëWsdJZ &lt;agd` S`^`J`c`""&amp;&amp;žGi dd`Ya Ybh`6YghcZ 6A F &gt;ž`dd`"+%d%\$) `C F f&amp;Ł&gt;UVëi Ygž; YcZFYmfA cXYfUhcfl&amp;\$\$&amp;"7U`"UbX F YgdcbgY. '5`F`ci bXHU`V`Y`cb`? Yb`6i fbg`g`&gt;Unn`ž` &lt;agd` S`^`a`XBabg`Sd? ge[U`E`fgV[Wëž`c`""%`.'&amp;\$`+!&amp;&amp;)" C F fl`L`DcbXž`GHj`Yb`:"`&amp;\$`\$` "'&gt;Ua`a` ]b[ `h`Y`F`YW`dh]cb. ? Yb`6i fbgž`"&gt;Unn`ž`UbX`h`Y`D`fc`V`Ya` `c`Z`f`a` Yf]WUfj A`i`g]Wf`@afWëf`GYWëbX`GYf]Ygž`J`c`""*`ž`B`c`""%ž`dd` %d`(`) `C F</p>
<p>K YY_ '%%'; 'C VtVYf!`%( C VtVYf</p>	<p>Hi hcf]U` @YWh fy</p>	<p>@]ghYb]b[ " b!WUgg`fYUX]b[ . '4gf 4W\$gf]Xg`^Vm; YcZ8mYf" BYc`Wëbg`cf`U`W`a`i`U`h`j`Y`df`U`W`W`3`C`f`W`U`b`m`c`i` `_]` Ub`U`fh`k` ]h`_]b`X`b`Y`gg`3</p>
<p>K YY_ '%&amp;. %) 'C VtVYf! &amp;%C VtVYf</p>	<p>Hi hcf]U` @YWh fy</p>	<p>: ]a` `J` ]Yk` ]b[ . '?`a` 4WfVd`4`g`Wëž K ` \U`h`b`c`k` 3</p>
<p>K YY_ '%`.'&amp;&amp;'C VtVYf! &amp;, 'C VtVYf</p>	<p>Hi hcf]U` @YWh fy</p>	<p>@]ghYb]b[ `HYgh . . &gt;Unn`C`i`h]XY`h`Y`I`G</p>

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

A U`cf`F Ygci fWg

GW`th8YJ YUi I `UbX`; Ufm; ]XXYbg" &\$-\$- "<SI I ž B c f r c b"

5W`ta dUbm]b[ `78 `Ubhc`c[ m]g`U`gc`\\[ `\\mfY`ta a YbXYX"

H\\YfY`UfY`fk`c`chYf`a U`cf`Ubhc`c[ ]Yg`cZ`U`nn`fY`W`fX]b[ g`h`Uhg`ci `X`VY`fYUX]mUj U]UV`Y.

<SI I , FZWE\_ [fZea` [S` 3` fZa`aYkž

?Yb`6i fbg`<SI I I

H\\Y`6i fbgžUj U]UV`Y`]b`h`Y`\\]VfUfmž]g`XfUk b`Zca `\\]g`h`Y`j ]g]cb`gYf]Yg`cZ`h`Y`gUa Y`b`Ua Y`"K `\\Yb`≡`Ugh  
W`Y`W`Y`X`ž`h`]g`k`Ug`Uj U]UV`Y`cb`Mci`h`VY`" `h`]g`\\[ `\\mfY`ta a YbXYX`h`U`h`m`ci`k`U`h`W`h`]g`]a`d`c`f`h`b`h`ž`h`ci`[ `\\  
a`i`W`W`h`h`Y`X`ž`d`f`c`X`i`W`]c`b`"

F YW`ca a YbXYX`F Ygci fWg

5 [ Uk i ž? cZ]`% - - ) ""H\\Y` `h`j`Y`b`h`c`b`c`Z`5`Z]W`b`F`\\`m`h`a` """">ci`fb`U`c`Z`h`Y`5`a`Y`f]W`b`A`i`g]W`c`[ ]W`  
GcW`Y`m`(`,`f`l`L`",`\$!`-`-)`"

6U]Ymž`8YfY`\_"`% - - &`a`d`f`c`j`]g`U`h`c`b`."`h`g`b`U`h`f`Y`U`b`X`d`f`U`W`]W`]`b`a`i`g]W`@`c`b`X`c`b`."`6`f]h`g`\\`@]VfUfm`B`U`h`c`b`U`  
Gci`b`X`5`f`W`]j`Y`"

6YfYbXhž`>c`U`W`]a` `%-`+`\*`H\\Y`>U`nn`6`c`c`\_"`G`h`5`\\`U`b`g`f`l`?`L`D`U`U`X`]b`

6Yf]bYfž`D`U`i`""`% - - (`H\\]`b`\_]b[ `]b`U`nn`."`h`Y`]b`Z`b]h`f`U`f`h`c`Z]a`d`f`c`j`]g`U`h`c`b`""`7`\\]W`[`c`/`@`c`b`X`c`b`."`I`b]j`Y`f`g]m`i`c`Z`  
7`\\]W`[`c`D`f`Y`g`g`"

7Ua`V`f]X[`Y`W`ta`d`U`b]c`b`h`c`U`nn`"B`Y`k`M`c`f`\_`"7`Ua`V`f]X[`Y`I`b]j`Y`f`g]m`D`f`Y`g`g`&\$`\$`&".....

7`\\`Y`f`b`c`Z`ž`>c`\\`b`A`]`Y`f`""`%`+`-`"5`Z]W`b`F`\\`m`h`a` `U`b`X`5`Z]W`b`G`Y`b`g]V`]m`7`\\]W`[`c`."`I`b]j`Y`f`g]m`i`c`Z`7`\\]W`[`c`  
D`f`Y`g`g`"

8YJ`Y`U`i`I`ž`G`W`h`h`?`b`c`k`Y`g`""`%`-`+`H\\Y`V]f`h`c`Z`V`Y`V`c`d`."`U`g`c`W`U`U`b`X`a`i`g]W`"\\]g`h`c`f`m`6`Y`f`\_`Y`m`I`b]j`Y`f`g]m`i`c`Z`  
7`U`]Z`f`b]U`D`f`Y`g`g`"

8`c`b`U`X`ž`>Ua`Y`g`&\$`%)`G`c`a`Y`c`Z`H`\\`Y`g`Y`8`U`m`g`."`6`U`W`\_`G`h`f`g`ž`>U`nn`5`Y`g`h`Y`h`W`g`U`b`X`A`c`X`Y`f`b]g`h`7`i`h`i`f`Y`""`C`I`Z`c`f`X`.  
C`I`Z`c`f`X`I`b]j`Y`f`g]m`i`D`f`Y`g`g`"

:`f`Ua`d`h`c`b`ž`F`c[`Y`f`%`-`&`5`i`g`h`f`U`]U`b`>U`nn`f`l`]h`"G`n`X`b`Y`m`G`c`i`b`X`g`5`i`g`h`f`U`]U`b`"

;`Y`V`\\`U`f`X`h`ž`B]W`X`c`U`g`&\$`\$`%;`c]b[ `Z`c`f`U`nn`."`a`i`g]W`"d`f`U`W`]W`g`U`b`X`5`a`Y`f]W`b`]X`Y`c`c[`m`7`\\]W`[`c`."`I`b]j`Y`f`g]m`  
c`Z`7`\\]W`[`c`D`f`Y`g`g`"

;`f]X`Y`m`ž`A`U`f`\_`7`""`%`-`%`>U`nn`G`h`m`Y`g`."`<]g`h`c`f`m`U`b`X`5`b`U`m`g]g`"9`b[ `Y`k`c`c`X`7`]Z`g`f`B`Y`k` `>Y`f`g`Y`m`L`D`f`Y`b`h]W` `<U`""

>c\b'DcHf'fYX'E"&\$\$\$'7 Ua Vf]X[ Y'Wc'a dUb]cb'hc'g]b[ ]b[ "'7 Ua Vf]X[ YŽI " ?"/BYk 'Mcf\_ '7 Ua Vf]X[ Y  
I b]j Yfg]mDfYgg"

>c\bgcbž6fi W'&\$\$\$' bUi X]V'Y'A i g]W'GmXbYm'7 i ffYbWmDfYgg

? Y]ž7 \UFYg"%- ( 'A i g]W[ fccj Yg. YggUm]UbX'X]U'c[ i Yg"'7 \]WU[ c. I b]j Yfg]mDfYgg"

? YfbZ'Xž6 "'fYX"E"%- , - 'H\Y'BYk ' ; fcj Y'8]W]cbUfmcZ>Unn"'@cbXcb. 'A UWA ]'Ub"

@ca Ul ž5'Ub %- - ' 'H\Y'@UbX'K \YfY'hY'6'i Yg'6Y[ Ub"'BYk 'Mcf\_ 'DUbhYcb".....

C [ fYbž? UHm>"% , - 'H\Y'Unn'fYj c'i h]cb. 'hk Ybh]Yg'5a Yf]WU/ 'hY'a YUb]b[ 'cZ'Unn"'BYk 'Mcf\_ 'CI žcFX  
I b]j Yfg]mDfYgg"

C ]j YfžDui ""% , \* 'H\Y'BYk ' ; fcj Y' [ cgdY'žV'i YgžUbX'Unnžk ]h'gd]f]h U'g'UbX'fU[ h]a Y"'BYk 'Mcf\_ 'Bcftcb"

F cgYbhUž8Uj ]X' %- - &'<UFX'Vcd. 'Unn'UbX'6'UW\_ 'a i g]W'ž% ) )!% \* ) "'BYk 'Mcf\_ 'CI žcFX'I b]j Yfg]mDfYgg"

GWxi ""Yfž; i bhYf' %- \* , '9Ufmi>Unn. 'h]F cct]g'UbX'8Yj Y'cda Ybh'BYk 'Mcf\_ 'CI žcFX'I b]j Yfg]mDfYgg"

GWxi ""Yfž; i bhYf' %- , - 'H\Y'gk ]b[ 'YfU. 'hY'XYj Y'cda YbhicZ'Unnž% - '\$!% ( ) "'BYk 'Mcf\_ 'CI žcFX  
I b]j Yfg]mDfYgg"

G\UfdYž>c\b'&\$\$\$%8cbf]k cffmVUVmž'hYmfi'gk ]b[ 'hY]f'UfgYg'cZ' 'H\Y'g]c]f]Yg'cZ5i g]fU']Ub'Unn  
a i g]W]Ubg"'7 UbVYffU. 'GW'YybGci bX'5i g]fU']U"

G\Uk ž5fbc'X" %- , + 'H\Y'Unn'U[ Y. 'dcdi 'Uf'a i g]W]b'hY' %- &\$]g"BYk 'Mcf\_ 'CI žcFX'I b]j Yfg]mDfYgg"

G\]d]cbž5'mb"&\$\$\$%5'bYk '\]g]c]f]m]cZ'Unn"'BYk 'Mcf\_ '7 cb]h]bi i a "

Gci hYfbž9]YYb"%- - + 'H\Y'A i g]WcZ6'UW\_ '5a Yf]WUbg. '5'< ]g]c]f]m]' 'fX'9X]h]cb"'BYk 'Mcf\_ 'Bcftcb"

H]ffcž: fUb\_ %- - ' ' >Unn!' '5'< ]g]c]f]m]&bX'9X]h]cb"BYk 'Mcf\_/@cbXcb. 'Bcftcb"

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

H\]g'Wci fgY'k ]'VY'Yj U'i UH'X'h]fci [ \ '7 5H9="7 5H9=gi fj Ymg'k ]'VY'Wc'a d'YH'X' ]b'cbY'cZ'hY'h'hc]f]U'g'UH  
]b'hY'gYgg]cb"

C b'hY'VUg]g'cZdUghYj U'i Uh]cbgž'k c'byk 'Wc]b]Ya dcfUf]m]k cf\_g'\Uj Y'VYyb'UXXYX'hc'hY' ]g]h]b]b[ '' ]g]h]UbX  
c'XYf'YI Ua d'Yg'XY'YH'X"'H\Y'a U'cf'UggYgga Ybh]Ug\_ '\Ug'VYyb'WUf]Z]YXž'UbX'cbY'Z' f'hYf'a c] ]Y'a UmVY  
UXXYX'hc'hY'gWYX'Y'Y"'H\Y'bi a VYf'cZV'c[ g'fYei ]fYX'\Ug'VYyb'fYXi W'X"

⇒ a U[ Y'7 fYX]h

H\]g:]a U[ Y ]g'dfcdYf]m]cZI BGK

7F ⇒ CG



7 F 7 CG Dfcj jXYf 7 cXY. \$\$\$- , ;