



MUSC1708

65 'DYfZcfa UbWV '@UVcfUhc fm5

HYfa 'H\fYY'##'&\$%-

7ci fgY`Cj Yfj]Yk

`GHUZZ7cbhUWhi8YHJ`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j U]UV]]m	@cWjhcb	D\cbY

5ggYgga Ybh

8YHJ]g. 'DYfZcfa UbW#dfYgYbHhcbg:k]''VY'WcbXi WYX'Xi f]b['k cf_g\cd'gYgg]cbg']b'H%žH&'UbX
H' "' 'bghfi a YbH]'ghg'UbX'j cWU'ghg'k]''dYfZcfa 'cbY'Wca d'YH']H'a žk \]W'a UmVY'U'a cj Ya YbhcZU''Uf[Yf
k cf_"9UW' dYfZcfa UbW#dfYgYbHhcb'a i gh]bW' XY'bYk 'a UHf]U''K f]Hb'ZYXVUW_k]''VY'dfcj]XYX']b
k f]h]b['UZf'dYfZcfa UbWg#dfYgYbHhcbg

5XX]h]cbU'XYHJ]g.

H\Y%'\$'a]bi H'UggYggYX'dYfZcfa UbWg'dfYgYbHhX']b'HYfa "' 'WU'b'bc'h]bW' XY'H\Y'fYdYfrc]fY'dfYgYbHhX']b
HYfa g%'UbX'&"H\Y'dYfZcfa UbW'a i gh]bW' XY'Ub'Ui fU'dfYgYbHhcb'gh]h]b['H\Y'fU]h]cbU'UbX'↑ gh]Z]W]h]cb
Zc'f'H\Y'fYdYfrcf]Y'W'cgYb"

5 HbXUbW F Yei]fYa Ybhg

D YUgY bch hUh YWfi fy fYwFX]b[g Ufy bchUj U]UV Y Zcf h]g Wci fgY" Gh XYbhg Ufy gfc b[mYbWci fU[YX hc UHbX U WUggYg UbX WcbhUWhY 7 ci fgY 5i hcf]mhc a U_Y UHfbUhj Y UffUb[Ya Ybhg Zcf WUggYg a]ggYX"

7 ci fgY GWYXi Y

[J Jk WUgg ha YHUVY](#)

Hja YHUVY

8UH	HmdY	7cbhYbh
K YY_% %* GYdhYa VYf! &\$ GYdhYa VYf	@YWhi fy	HYfa d Ub X]gW ggYX UbX UggYgga YbhXYHJ]g UbX XUHyg Ufy YI d U]bYX"
K YY_& & GYdhYa VYf! &+ GYdhYa VYf	@YWhi fy	Gh XYbh]b! WUgg dYfZcfa UbWg/8]gW gg]cb c ZghU[Y dfYgYbhUj]cb g_]`g"
K YY_ " . " \$GYdhYa VYf! (C WcVYf	@YWhi fy	!WUgg gc`c dYfZcfa UbWg/ ; fci d k cf_ !hYbh]cb!Vi]X]b[UbX dfUW]W d Ubb]b[Zcf dfUW YI Ua g! fYZYWhj Y YI WfW]gYg/
K YY_(. + C WcVYf! % C WcVYf	@YWhi fy	!WUgg gc`c dYfZcfa UbWg/ ; fci d k cf_
K YY_) . % (C WcVYf! % C WcVYf	!hYbg]j Y	F YUX]b[K YY_ Gh XYbhg k] U`c WWh YI HfU! ha Y Zcf dYfgcbU dfUW]W UbX fYZYWhj]cb cb hY a UghfWUggYg UHbX YX]b h]g hfa gc ZF"
K YY_* . &% C WcVYf!) C WcVYf	@YWhi fy	GYWhjcbU fy YUfgU`g/ ; fci d k cf_
K YY_+ . & C WcVYf! % Bcj Ya VYf	@YWhi fy	!WUgg [fci d dYfZcfa UbW UbX XYVf]YZ
K YY_ , . (Bcj Ya VYf! , Bcj Ya VYf	@YWhi fy	!WUgg dfYgYbhUj]cb UggYgga Ybhg VY []b
K YY_- . % Bcj Ya VYf!) Bcj Ya VYf	5ggYgga Ybh	Gh XYbh]b! WUgg dYfZcfa UbW UggYgga Ybhg Wcbh]bi Y"
K YY_ %\$. % Bcj Ya VYf! && Bcj Ya VYf	5ggYgga Ybh	Gh XYbh]b! WUgg dYfZcfa UbW UggYgga Ybhg Wcbh]bi Y"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

%`9j Yfmh]b[`]g`7 cbbYWYX. `H\Y`Dck Yf`cZA i g]WWm8 Ub]Y`6UfYbVc]a

&``A ch]cbz`9a ch]cbz`UbX`@cj Y. `H\Y`B Uhi fY`cZ5fh]gh]WDYfZcfa UbW`Vm[H\ca Ug`7Ufgcb`A Uf`](#)

` ``@YhYfg`hc`U`Mci b[`DcYhVmF U]bYf`F]_Y

F YWca a YbXYX`F Ygci fWg

BchUj U]UV`Y

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

Øf]YZmci h]bY`ck `gh XYbhZYXVUW`fVch`Zcfa U`UbX`]bZcfa U`E`cb`h`Y`W`i fgY`k]`VY [U`h`Y`f`Y`X`Z`ck `]h
k]`VY `UbU`mgYX`UbX`ck `]hk]`VY `U`W`Y`X`i`dcb`hc`]a dfcj Y`h`Y`gh XYbh`YUfb]b[`Yi dYf]YbW``: cf`Yi Ua d`Y`Z
mci `a][`h`X]gW gg`k `U`h`k Ug`]X`Y`bh]Z`Y`X`]b`d`U`gh`Z`Y`X`V`U`W`U`b`X`ck `h`]g`W`i fgY`k Ug`W`X`Ub[YX`hc`U`X`X`f`Y`gg`h`Y
]ggi Y`Q

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`fb`U`Gi`ddcfh`cb`-`,`)``%`cf`Ya`U]`h`Ya`cb`YI`H`fb`U`H`h`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`bg]cb`z`Vi`hmc`i`
a`i`gh`f`Y`h]b`mc`i`f`h]W`Y`h`bi`a`VYf`Z`ca`9I`H`fb`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`bg]cb`Udd`]W`h]cb"Ʒmci`Ya`U]`9I`H`fb`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`VYf`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`bh`h`b`]bg`h`U`b`W`g`k`Y`f`Y`h`l`g`]g`b`ch`id`c`gg]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`bh`g`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`td`g`#`g`h`X`Y`b`h`i`bgk`"YXi`"Ui`#`ack`!
gi`Va`]h`Ugg][`ba`Y`bh`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`WX`YU]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]g`UbchYf`g`]XYUg`cf`k`cfXg`k`]h`ci`hW]YX]h`

~~U~~Uddfcdf]UHY`dUfUd`fUg]b[`7`U`b[]b[`U`Z`k`k`cfXg`UbX`d`fUgYg`k`Y`a`cghmifYU]b]b[`hY`cf][`]bU`g]fi`W`fY`UbX`#`f`dfc[`fYgg]cb`cZ]XYUg`cZ`hY`cf][`]bU`z`UbX`]b`Z`fa`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`UbchYf`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`bYk`k`Y`c`Y`z`k`]h`ci`hUddfcdf]UHY`fY`ZY`fY`b]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`]bW`i`XYg`dfcj`X]b[`mci`f`k`cf`_`hc`UbchYf`gh`XYbhVY`Z`fY`hY`Xi`Y`XU]h`z`cf`Z`f`hY`di`fdcgY`cZ`hY`a`d`U[]Uf]g]b[`Uh`Ubm]h]a`Y`z`dUm]b[`UbchYf`dYfgcb`hc`dYfZ`fa`Ub`UW]XYa`]W]Ug`z`ghYU`]b[`cf`UW`i`]f]b[`UbchYf`dYfgcb`g`UW]XYa`]Wk`cf_]UbX`W`dm]b[`]h`z`cZ]f]b[`hc`W`a`d`Y`h`UbchYf`dYfgcb`g`k`cf_]cf`gYY_]b[`dU`ma`Y`bh`Z`f`W`a`d`Y`h]b[`UW]XYa`]Wk`cf_"`

~~U~~Uddfcdf]UHY`W]h]cb.`7`h]b[`gci`fW]g`k`Y`W`U]j`Y`bchVYYb`fYUX`z`k`]h`ci`hUW`bck`YX[]b[`hY`"gY`W`bXUfm`gci`fW`Z`ca`k`Y`W`_`bck`YX[`Y`cZ`hY`a`_`Ug`VYYb`cV]h]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`c`f`]b`dUf]z`k`Y`fY`]h`Ug`dYj`]ci`g`m`VYYb`dfYdUfYX`cf`gi`Va`]hYX`Z`f`UbchYf`UggYgga`Ybhcf`W`i`fgY`Uh`I`BGK`cf`UbchYf`i`b]j`Yfg]m`

7`cffY`W`i`fY`ZY`fY`b]b[`dUfUW]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`

5 WUXYa]WbZcfa Uhcb`

: cf`YggYbh]U`ghi XYbh]bZcfa Uhcb`fY`Uh]b[`hc.

- fYei Yghg`ZcfYI hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I B GK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcVWXi fYg/
- gdYW]U`Vc]bg]XYfUh]cb`]b`hY`Yj YbhcZ]`bYgg`cf`a]gUXj Ybhi fY/
- ghi XYbhYei]hmUbX`X]gUV`]`]m/
- UbX`chYf`YggYbh]U`UWUXYa]W]bZcfa Uh]cbz`gYY

[\hfdg.#k k k "Ufmg"i bkg "YXi "Ui #W ffYbhghi XYbh\]bZcfa Uhcb`dfc\]Vc`g!\[i \]XY`\]bYg#](#)

⇒ U[Y`7 fYX]h

Gc`c`DYfZcfa UbW`A U_]b[`&\$%-

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7cXY.`\$\$\$- ;