

!" #&/
4;O <548G=>3> 70AB>AC20==O ;V:0@AL:>3> 70A>1C

&5D"

!:>04:

4VNG0 @5G>28=0: cefotaxime;
1 D;0:>= B0:A8 F5D>B0:A81 3.

V:0@AL:0 D>@<0. >@>H>: 4;O @>7G8=C 4;O V= T:FV9.

A=>2=V DV78:>-EVABV: :@8AB0;VG=89 ?>@>H>: 2V4 1V;>3> 4> 1;V4>-6>2B>3> :>;L>@C.

\$0@<0:>B5@0?52B8G=0 3@C?0.

@>B81=V 70A>18 4;O A8AB5<=>3> 70AB>AC20==O. =HV β-;0:B0<=V 0=B81V>B8:8. ?>A?>@8=8
?>:>;V==O. &5D>B0:A8>4 "% J01D D01.

\$0@<0:>;>3VG=V 2;0AB82>ABV.

\$0@<0:>48=0

&5D>B0:A8< =0?V2A8=B5B8G=89 F5D0;>A?>@8=>289 0=B81V>B8: III ?>:>;V==O 4;O

?0@5=B5@0;L=>3> 70AB>AC20==O. VT 10:B5@8F84=>. 0T H8@>:89 A?5:B@ 4VW.

> ?@5?0@0BC GCB;82V: *StreptocoAci*(70 28=OB:>< 3@C?8 D), 2;;NG0NG8 *Streptococcus pneumoniae*;
Staphylococcus aureus, C B. G. HB0<8, O:V CB2>@NNBL B0 =5 CB2>@NNBL ?5=VF8;V=07C; *Bacillus subtilis* V *mycoides*;
Neisseria gonorrhoeae (HB0<8, O:V CB2>@NNBL B0 =5 CB2>@NNBL ?5=VF8;V=07C), *Neisseria meningitidis* V=HV 2848 *Neisseria*;
Escherichia coli, *Klebsiella spp.*, 2;;NG0NG8 *Klebsiella pneumonia*, *Enterobacter spp.* (45O:V HB0<8 @578AB5=B=V); *Serratia spp.*; *Proteus* (V=4>;?>78B82=V B0 V=4>;=530B82=V 2848); *Salmonella*;
Citrobacter spp.; *Providencia*, *Shigella*, *Yersinia*, *Haemophilus influenzae* V *parainfluenzae* (HB0<8, O:V CB2>@NNBL B0 =5 CB2>@NNBL ?5=VF8;V=07C, C B. G. ABV9:V 4> 0 Bordetella pertussis;
Moraxella, *Aeromonas hydrophilia*, *Veillonella*, *Clostridium perfringens*, *Eubacterium*, *Propionibacterium*, *Fusobacterium*;
Bacteroides spp. V *Morganella*

> 4VW ?@5?0@0BC =5?>ABV9=> GCB;82V: *Pseudomonas aeruginosa*, *Acinetobacter*, *Helicobacter pylori*, *Bacteroides fragilis* V *Clostridium difficile*

> 4VW ?@5?0@0BC ABV9:V: *Streptococcus* 3@C?8 D, *Listeria* V <5B8F8;V=>ABV9:V AB0DV;>:>:8.

\$0@<0:>:V=5B8:0.

A<>:BC20==O. '5@57 5 E28;8= ?VA;O >4=>@07>2>3> 2=CB@VH=L>25==>3> 22545==O 1 3 F5D>B0:A8 3> :>=F5=B@0FVO C A8@>20BFV :@>2V AB0=>28BL 1007V <0:A8<0;L=0 :>=F5=B@0FVO C :@>2V 4>AO30TBLAO G5@57 0,5 3>48=8 V AB0=>28BL 24

>7?>4V; . 207C20==O 7 1V;:0<8 ?;07<8 :@>2V AB0=>28BL C A5@54=L>%. &5D>B0:A8< 4>1@5

?@>=8:0T C B:0=8=8 V 1V;>;>3VG=V @V48=8 >@30=V7=F5=B@0FVOE C ?;52@0;L=V9,

?5@8B>=50;L=V9, A8=>2V0;L=V9 @V48=0E. @>=8:0T :@V7L 35<0B>5=F5D0;VG=89 10@T@.

V>B@0=AD>@@5==O< 0:B82=>3> <5B01>;VBC.

82545==O. @81;87=> 60-70 % 22545=>W 4>78 ?@5?0@0BC 282>48BLAO 7 A5G5N C =57

1-1,5 3>48=8 ?@8 2=CB@VH=L<<□O7>2>2V9 =54>AB0B=>ABV B0 C ?0FVT=BV2 ;VB=L>3> 2V:C

?5@V>4 =0?V2@>7?04C ?@5?0@0BC 71V;LHCTBLAO ?@81;87=> C 2 @078. # =>2>=0@>465=8E

4VB59 ?5@V>4 =0?V2@>7?04C ?@5?0@0BC AB0=>28BL 2V4 0,75 4> 1,5 3>48=8, 0 C =54=>=H5=8E

4VB59 2V4 1,4 4> 6,4 3>48=8.

;V=VG=V E0@0:B5@8AB8:8.

>:070==O.

=D5:FVW, A?@8G8=5=V GCB;828<8 4> 4VW ?@5?0@0BC >@30=V7<0<8:

V=D5:FVW ->@30=V2 (0=3V=8, >B8B8);

V=D5:FVW 48E0;L=8E H;OEV2 (1@>=EVB8, ?=52<>=VW, ?;52@8B8, 01AF5A8);

V=D5:FVW A5G>AB0B52>W A8AB5<8;

A5?B8F5

V=B@0014>=VB);

V=D5:FVW H:V@8 B0 <O:8E B:0=8=;

V=D5:FVW :VAB>: B0 AC3;>1V2;
<5=V=3VB (70 28=OB:<< ;VAB5@V>7=>3>) B0 V=HV V=D5:FVW F5=B@0;L=>W =5@2>2>W A8AB5<8.
@>DV;0:B8:0 V=D5:FV9 ?VA;O EV@C@3VG=8E >?5@0FV9 =0 B@02=>;>3VG=8E B0 0:CH5@AL:>-
3V=5:>;>3VG=8E >?5@0FV9.

@>B8?>:070==O.

V?5@GCB;82VABL 4> 0=B81V>B8:V2F5D0;>A?>@8=>2>3> @O4C B0 V=H8E β-;0:B0<=8E
0=B81V>B8:V2, 3V?5@GCB;82VABL 4> ;V4>:0W=C Q=CB@VH=L<<□O7>25 22545==O), :@>2>B5G0,
5=B5@>:>;VB 2 0=0<=57V (>A>1;82> =5A?5F8DVG=89 28@07:>289 :>;VB).
AV-1;>:048 157 2AB0=>2;5==O 2>4VO A5@F52>3> @8BAB0B=VABL.

70T<>4VO 7 V=H8<8 ;V:0@AL:8<8 70A>10<8 B0 V=HV 2848 270T<>4V9.

@8 >4=>G0A=>AC20==V 7 =5D@>B>:A8G=8<8 ?@5?0@0B0<8 (03;V:>7848) V A8;L=>4VNG8<8
4VC@5B8:0<8 (5B0:@8=>20 :8A;>B0, DC@>A5:>;VAB8=><, ?>;V< ?V428ICTBLAO @878: @>728B:C
=8@:>2>W =54>AB0B=>ABV.

V4 G0A ;V:C20==O F5D>B0:A8<< <>65 7=86C20B8AL 5D5:B82=VABL?5@>@0;L=8E
:>=B@0F5?B82V2, B>4 =5>1EV4=> 28:>@8AB>2C20B8 4>40B:>2C :=B@0F5?FVN. &5D>B0:A8< =5
A;V4 70AB>A>2C20B8 @07<< V7 10:B5@V>AB0B8G=8<8 0=B81V>B8:0<8 (=0?@8::04, B5B@0F8::;V=0
<8, 5@8B@>< V E;>@0;><), >A:V;L:8 <>6;8289 0=B03>=VAB8G=89 5D5:B.

@8 AC7G8=8 F5D>B0:A87G8=0<8 03;V:>784V2 WE =5>1EV4=> 22>48B8 >:@5<>.
4=>G0A=5 70AB>AC20==O =VD548?V=C ?V428ICT 1V>4>ABC?=VABL F5D>B0:A8
@>15=5F84 1;>:CT :0=0;LF52C A5:@5FVN F5D>B0:A84>26CT 9>3> ?5@V>4 =0?V2282545==O.
&5D>B0:A8< =5 A;V4 70AB>A>2C20B8 @07<< 7 ;V4>:0W=><:
?@8 2=C@VH=L>25==>
4VBO< 2V:<< 4> 30
?0FVT=B0< 7 3V?5@GCB;82VABN 4> ;V4>:0W=C 2 0=0<=57V;
?0FVT=B0< 7 1;>:04>N A5@FO.

A>1;82>ABV 70AB>AC20==O.

>15@56=VABN ?@87=0G0B8 ?@5?0@0B ?@8 ?>@CH5==OE DC=:FVW =8@>: 01> ?5GV=:8

@8 ?>@CH5==OE DC=:FVW =8@>: 4>7C ?@5?0@0BC A;V4 7<5=H8B8 7 C@0EC20==O<
28@065=>ABV =8@:>2>W =54>AB0B=>ABV V GCB;82>ABV 71C4=8:0. @8 B@820;>AC20==V
?@5?0@0BC A;V4 :=B@>;N20B8 DC=:FVN =8@>:, ?@>2>48B8 ?@>DV;0:B8:C 48A10:B5@V>7C.
>FV;L=> @53C;O@=> :=B@>;N20B8 ;VB8==89 A::04 ?5@8D5@8G=>W :@>2V, DC=:FVN ?5GV=:8. V4
G0A 70AB>AC20==O ?@5?0@0BC <>6;8289 @>728B>: E81=>-?>78B82=>W ?@>18 C<1A0.

=0DV;0:B8G=V @50:FVW. 0AB>AC20==O F5D0;>A?>@8=V2 28<030T CB>G=5==O 0;5@3>;>3VG=>3>
0=0<=57C (0;5@3VG=89 4V0B57, @50:FVW 3V?5@GCB;82>ABV 4> β-;0:B0<=8E 0=B81V>B8:V2). @8
@>728B:C C ?0FVT=B0 @50:FVW 3V?5@GCB;82>ABV ;V:C20==O A;V4 ?@8?8=8B8. 0AB>AC20==O
F5D>B0:A8@> ?@>B8?>:070=5 ?0FVT=B0< V7 =0O2=VABN 2 0=0<=57V @50:FVW 3V?5@GCB;82>ABV
=5309=>3> B8?C 4> F5D0;>A?>@8=V2. # 28?04:C 1C4L-O:8E AC<=V2V2 ?@8ACB=VABL ;V:0@O ?@8
?5@H>1>2O7:>20 G5@57 <>6;8289 @>728B>: 0=0DV;0:B8G=>W @50:FVW. V4<0 ?5@5E@5A=0
0;5@3VO A?>@8=0<8 V ?5=VF8;V=0<8, I> 28=8:0T C 5-10 % 28?04:V2.

A524><5<1@0=>7=89 :>;VB. # ?5@HV B86=V ;V:C20==O <>65 28=8:=CB8 ?A524><5<1@0=>7=89
:>;VB, I> ?@>O2;OTBLAO BO6:>N B@820;>N 4V0@5TN. V03=>7 ?V4B25@46CTBLAO ?@8
:>;=>A:>?VW V/01> 3VAB>;>3VG=>A;V465==V. &V CA::04=5==O @>7FV=NNBL O: 4>A8BL
A5@9>7=V: =5309=> A;V4 ?@8?8=8B8 22545==O ?@5?0@0BC V ?@87=0G8B8 045:20B=C B5@0?VN, I>
2::NG0T ?5@>@0;L=89 ?@89<< 20=> <5B@>=V407>;C. >T4=0==O 70AB>AC20==O F5D0B>:A8
B>:A8G=8<8 ?@5?0@0B0<8 28<030T :=B@>;N DC:FVW =8@>:, 70AB>AC20==O 1V;LH5 10 4=V2
:=B@>;N A::04C :@>2V. 0FVT=B0< ;VB=L>3> 2V:C B0 >A;01;5=8< ?0FVT=B0< ?@87=0G0B8 2VB0
DV;0:B8:0 3V?>:>03C;OFVW). /: V ?@8 ?@89>B8:V2 H8@>:>3> A?5:B@0 4VW, B@820;5
70AB>AC20==O <>65 ?@872>48B8 4> ?V428I5=>3> @>ABC =5GCB;828E >@30=V7 ?>B@51CT
?@8?8=5==O ;V:C20==O. /:I> ?V4 G0A ;V:C20==O 28=8:0T AC?5@V=D5:FVO, A;V4 70AB>A>2C20B8

0=B81=C B5@0?VN. @8 287=0G5==V @V2=O 3;N:>78 C A5GV <5B>4>< 2V4=>2;5==O <>6CBL 1CB8 >45@60=V E81=>-?>78B82=V @57C;LB0B8. ;O 70?>1V30==O FL>@8AB>2C20B8 D5@<5=B=89 B5AB.

V4 G0A ;V:C20==O =5 <>6=0 26820B8 0;:>3>;L, >A:V;L:8 <>6;82V 5D5:B8, AE>6V 7 4VTN 48AC;LDV@0 1;8GGO, A?07< C 682>BV V 4V;O=FV H;C=:0, =C4>B0, 1;N20==O, 3>;>2=89 1V;L, 7=865==O 0@B5@V0;L=>3> B8A:C, B0EV:0@4VO, CB@C4=5==O 48E0==O). # @07V 70AB>AC20==O ;V4>:0W=C 2 O:>ABV @>7G8==8:0 ?@8 2=CB@VH=L<<□O7>2>:0W=C.

0AB>AC20==O C ?5@V>4 203VB=>ABV 01> 3>4C20==O 3@C44N.

0AB>AC20==O ?@5?0@0BC C ?5@V>4 203VB=>ABV ?@>B8?>:070=5.

0 ?5@V>4 ;V:C20==O ?@5?0@0B<< 3>4C20==O 3@C44N A;V4 ?@8?8=8B8.

40B=VABL 2?;820B8 =0 H284:VABL @50:FVW ?@8 :5@C20==V 02B>B@0=A?>@B< 01> V=H8<8 <5E0=V7<0<8.

'5@57 <>6;82VABL 28=8:=5==O ?>1VG=8E @50:FV9 7 1>:C =5@2>2>W A8AB5<8 A;V4 C=8:0B8 :5@C20==O 02B>B@0=A?>@B=8<8 70A>10<8 01> @>1>B8 7 V=H8<8 <5E0=V7<0<8 =0 ?5@V>4 ;V:C20==O.

!?!>AV1 70AB>AC20==O B0 4>78.

@5?0@0B 70AB>A>2C20B8 4;O 2=CB@VH=L>25==>3> (AB@C<8==> V :@0?;8==>) B0 2=CB@VH=L> <O7>2>3> 22545==O.

5@54 70AB>AC20==O< ?@5?0@0BC =5>1EV4=> ?@>25AB8 H:V@=V ?@>18 =0 GCB;82VABL 4> 0=B81V>B8:0 B0 ;V4>:0W=C. @8 28:>@8AB0==V 2 O:>ABV @>7G8==8:0 @>7G8=C ;V4>:0W=C 4;O 2=CB@VH=L<<O752>3> 70AB>AC20==O ?@5?0@0BC, =5>1EV4=> 2@0EC20B8 V=D>@<0FVN 7 157?5:8 ;V4>:0W=C.

;O 2=CB@VH=L>25==>3> AB@C<8==>3> 22545==O 1 3 ?>@>H:C @>7G8=8B8 C 8 <; AB5@8;L=>W 2>48 4;O V=T:FV9. 2>48B8 ?>2V;L=>, ?@>BO3<< 3-5 E2.

;O 2=CB@VH=L>25==>W V=DC7VW @>7G8=OB8 1 3 ?>@>H:C C 50 <; 0,9 % @>7G8=C =0B@VN E;>@84C 01> 5 % @>7G8=C 3;N:>78. "@820;VABL V=DC7VW 50-60 E2.

;O 2=CB@VH=L<<O7>2>3> 22545==O 1 3 ?>@>H:C @>7G8=8B8 C 4 <; AB5@8;L=>W 2>48 4;O V=T:FV9 01> 1 % @>7G8=C ;V4>:0W=C B0 22>4OBL 3;81>:> C AV4=8G=89<O7.

"@820;VABL :C@AC ;V:C20==O 2AB0=>2;NT ;V:0@ V=482V4C0;L=>.

>@>A;8< V 4VBO< 7 <0A>N BV;0 50 :3 V 1V;LH5 ?@87=0G0B8 F5D>B0:A8< C 4>7V 1 3 :>6=V 12 3>48=. # BO6:8E 28?04:0E ?@87=0G0B8 ?@5?0@0B C 4>7V 13 3-4 @078 =0 4>1C.

0:A8<0;L=0 4>1>20 4>70 AB0=>28BL 12 3.

@8 =5CA.;04=5=8E V=D5:FVOE, 0 B0:>6 ?@8 V=D5:FVOE A5G>282V4=8E H;OEV2 ?@87=0G0B8 2=CB@VH=L<<O7>2> 01> 2=CB@VH=L>25==> C 4>7V 1 3 :>6=V 12 3>48=;

?@8 =5CA.;04=5=V9 3>AB@V9 3>=>@5W ?@5?0@0B ?@87=0G0B8 C 4>7V 1 3 2=CB@VH=L<<O7>2> 1 @07 =0 4>1C 01> 2=CB@VH=L>25==>;

?@8 V=D5:FVOE A5@54=L>W BO6:>ABV ?@87=0G0B8 ?@5?0@0B C 4>7V 1-2 3 :>6=V 12 3>48=;

?@8 BO6:8E V=D5:FVOE (<5=V=3VB) ?@87=0G0B8 C 4>7V 2 3 ?@5?0@0BC 2=CB@VH=L>25==> :>6=V 6-8 3>48=.

VBO< 7 <0A>N BV;0 4> 50 :3 ?@5?0@0B ?@87=0G0B8 C 4>7V 50-100 <3/:3 <0A8 BV;0 =0 4>1C,

@>7?>4V;5=V9 =0 3-4 2=CB@VH=L<<O7>2V 01> 2=CB@VH=L>25==V 22545==O. @8 BO6:8E V=D5:FVOE (C B.G. <5=V=3VB) 4>1>2C 4>7C 71V;LHC20B8 4> 100-200 <3/:3 <0A8 BV;0 V 22>48B8 4-6 @07V2 2=CB@VH=L>25==> 01> 2=CB@VH=L<<□O7>2>.

;O =54=>=>H5=8E 4VB59 B0 4VB59 2V:<< 4> 1-3> B86=O 68BBO 4>1>20 4>70 ?@5?0@0BC AB0=>28BL 50 <3/:3 <0A8 BV;0, @>7?>4V;5=V9 =0 2 @V2=V 4>78, 22>48B8 2=CB@VH=L>25==>.

;O 4VB59 1-4-3> B86=O 68BBO 4>1>20 4>70 ?@5?0@0BC AB0=>28BL 50-100 <3/:3 <0A8 BV;0, @>7?>4V;5=V9 =0 B@8 @V2=V 4>78, 22>48B8 2=CB@VH=L>25==>.

@8 ?@>DV;0:B8FV @>728B:C V=D5:FV9 ?5@54 EV@C@3VG=8< 2B@CG0==O< ?V4 G0A 22545==O =0@:>7C >4=>@07>2> 22>48B8 1 3 F5D>B0:A81EV4=>ABV 4>7C ?>2B>@8B8 G5@57

6-12 3>48=.

@8 ?>@CH5==OE DC=:FVW =8@>: 4>7C ?@5?0@0BC A;V4 7<5=H8B8. @8 ;V@5=AV :@50B8=V=C 10 <;/E2 V <5=H5 4>1>2C 4>7C ?@5?0@0BC 7<5=HC20B8 C42VGV.

VA;O ?@83>BC20==O @>7G8=C 4;O 2=CB@VH=L<O7>2>3> 22545==O <>65 715@V30B8AO
?@>BO3>< 12 3>48= ?@8 B5 7 4V1 2 >@83V=0;L=V9 C?0:>2FV C E>;>48;L=8:C ?@8 B5
VA;O ?@83>BC20==O @>7G8=C 4;O 2=CB@VH=L>25==>3> 22545==O <>65 715@V30B8AO 4> 24
3>48= ?@8 B5 5 4V1 C E>;>48;L=8:C ?@8 B5 2-8 !.

VB8.

VBO< 2V:> 4> 2,5 @>:V2 ?@5?0@0B 2=CB@VH=L<O7>2> =5 ?@87=0G0B8.

5@54>7C20==O.

!8<8: <>6;82V 30@OG:0, ;59:>?5=VO, B@><1>F8B>?5=VO, 3>AB@0 35<>;VB8G=0 0=52>.:8H:>2V
@50:FVW B0 @50:FVW 7 1>:C ?5GV=:8, 7048H:0, =8@:>20 =54>AB0B=VABL, AB<0B8B, 0=>@5:AVO,
B820 2B@0B0 A;CEC, 2B@0B0 >@VT=B0FVW C ?@>AB>@V, 5=F5D0;>?0BVO (>A>1;82> ?@8
=8@:>2V9 =54>AB0B=>ABV).

V:C20==O. !?5F8DVG=89 0=B84>B 2V4ACB=V9. V25=L F5D>B0:A820BFV :@>2V <>6=0 7=878B8 35
<>4V0;V7>< 01> ?5@8B>=50;L=8< 4V0;V7>1EV4=>ABV ?@>2>48B8 A8<0B8G=C B5@0?VN.
@8 28=8:=5==V 0=0DV;0:B8G=>3> H>:C A;V4 =5309=> 268B8 2V4?>2V4=8E 70E>4V2. @8 ?5@H8E
>7=0:0E @50:FVW ?V428I5=>W GCB;82>ABV (H:V@=V 28A8?0==O, :@>?82O=:0, 3>;>2=89 1V;L,
=C4>B0, 2B@0B0 A2V4<>ABV) 22545==O F5D>B0:A8W @50:FVW ?V428I5=>W GCB;82>ABV 01>
0=0DV;0:B8G=V9 @50:FVW A;V4 @>7?>G0B8 2V4?>2V4=C B5@0?VN (22545==O 5?V=5D@8=C B0/01>
3;N:>:@B8:>W4V2). @8 V=H8E ;V=VG=8E AB0=0E <>6CBL 7=04>18B8AO 4>40B:>2V 70E>48,
=0?@8:;04, HBCG=5 48E0==O, 70AB>AC20==O 0=B03>=VABV2 3VABQ8E @5F5?B>@V2. # @07V
AC48==>W =54>AB0B=>ABV A;V4 268B8 @50=V<0FV9=8E 70E>4V2.

>1VG=V @50:FVW.

I>:C B@02=>3> B@0:BC: =C4>B0, 1;N20==O, 4V0@50, <5B5>@87<, 1V;L C 682>BV, 48A1V>7, @V4:>
AB<0B8B, 3;>A8B, ?A524><5<1@0=>7=89 :>;VB.

;5@3VG=V @50:FVW: 3V?5@5?82O=:0, 1@>=E>A?0?<, @<=0 5:AC40B82=0 5@8B5<0, A8=4@<
!BV25=A0-6>=A>=0, B>:A8G=89 5?V45@<0;L=89 =5:@>;V7 (09T;:0), ?@>?0A=8FO, 0=0DV;0:B8G=V
@50:FVW, 0=3V>=52@>B8G=89 =01@O:, @V4:> 0=0DV;0:B8G=89 H>:.

I>:C 35?0B>1V;V0@=>W A8AB5<8: 35?0B8B, 3>AB@0 ?5GV=:>20 =54>AB0B=VABL, ?>@CH5==O
DC=:FVW ?5GV=:8, 6>2BO=8FO, E>;5AB07.

I>:C 1V>EV:07=8:V2: 71V;LH5==O @V2=O ?5GV=:>28E B@0=A035=078, ;C6=>W D>AD0B078 B0
1V;V@C1V=C, :=>F5=B@0FVW 07>BC A5G>28=8 B0 :@50B8=V=C, ?>78B82=0 @50:FVO C<1A0.

I>:C ?5@8D5@8G=>W :@>2V: 3@0=C;>F8B>?5=VO, =59B@>?5=VO, B@0=78B>@=0 ;59:>?5=VO,
B@><1>F8B>?5=VO, 03@0=C;>F8B>7, 0=V7>F8B>7, 5>78=>DV;VO, 3V?>?@>B@<1V=5:>03C;OFVO.

I>:C F5=B@0;L=>W =5@2>2>W A8AB5<8: 3>;>2=89 1V;L, 70?0<>@>G5==O, AC4<8, >1>@>B=0
5=F5D0;>?0BVO, ?V428I5=0 2B><;N20=VABL, A;01:VABL.

50:FVW C 1V;L B0 V=DV;LB@0B C<O7>2>3> 22545==O, 1V;L ?> E>4C 25=8, 70?0;5==O B:0=8=
D;51VB.

D5:B8, 7C<>2;5=V IV>;>3VG=>N 4VTN: <>6;8289 @>728B>: AC?5@V=D5:FVW (C B.G. :0=484>7,
203V=VB).

=HV: :@>2>B5GV B0 :@>2>28;828, 0CB>V35<>;VB8G=0 0=50@8B

@8 ;V:C20==V V=D5:FV9, A?@8G8=5=8E A?V@>E5B>N, <>65 28=8:=CB8 CA:;04=5==O, ?>4V1=5 4>
@50:FVW 5@:A359<5@0. &5 <>65 ?@8725AB8 4> 28=8:=5==O 30@OG:8, >7=>1C, 3>;>2=>3> 1>;N V
1>;N C AC3;>10E.

"5@ABV.3 @>:8.

#<>28 715@V30==O.

15@V30B8 ?@8 B5@83V=0;L=V9 C?0:>2FV.

15@V30B8 C =54>ABC?=>

5AC

>7G8= ?@5?0@0BC =5AC7G8=0<8 V=H8E 0=B81V>B8:V2, WE A;V4 22>48B8 >:@5<>.

#?0:>2:0.

> 1 D;0:>=C C :0@B>==V9 C?0:>2FV.

0B53>@VO 2V4?CA:C. 0 @5F5?B>

8@>1=8:.

N?V= V

VAF57=0E>465==O 28@>1=8:0 B0 04@5A0 20465==O 9>3> 4VO;L=>ABV.

198-202, LN =40AB@V0; @VO 2, 0=4848? 462046 8AB 09A5= ..., =4VO.