

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

"" !" «»
(METHOTREXAT «EBEWE»)

!,:04:

4VNG0 @5G>28=0: methotrexate;

1 B01;5B:0

4>?>28=8: ;0:B>70, <=>3V4@0B; :@>E<0;L :C:C@C47O=89; F5;N;>70 :@8AB0;VG=0; :@5<=VN
4V>:A84 :>;>W4=89 1572>4=89; <03=VN AB50@0B.

V:0@AL:0 D>@<0. "01;5B:8.

A=>2=V DV78:>-EVABV.

5B>B@5:A0B «1525» 2,5 <3: :@C3;V ?>A:V B01;5B:8 7V A:>H5=8<8 :@0O<8, A2VB;>-6>2B>3>
:>;L>@C, 4>?CA:0TBLAO =0O2=VABL 2:@0?;5=L 2V4 6>2B>3> 4> >@0=652>3> :>;L>@C 01>
1V;C20B8E 2:@0?;5=L;

5B>B@5:A0B «1525» 5 <3: :@C3;V 42>>?C;:V B01;5B:8 A2VB;>-6>2B>3> :>;L>@C 7 @8A:>N 4;O
?>4V;C 7 >4=>3> 1>;C, 4>?CA:0TBLAO =0O2=VABL 2:@0?;5=L 2V4 6>2B>3> 4> >@0=652>3> :>;L>@C
01> 1V;C20B8E 2:@0?;5=L;

5B>B@5:A0B «1525» 10 <3: :0?AC;>?>4V1=V 42>>?C;:V B01;5B:8 A2VB;>-6>2B>3> :>;L>@C 7 @8A:>N
4;O ?>4V;C 7 >4=>3> 1>;C, 4>?CA:0TBLAO =0O2=VABL 2:@0?;5=L 2V4 6>2B>3> 4> >@0=652>3>
:>;L>@C 01> 1V;C20B8E 2:@0?;5=L.

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

=B8=5>?;0AB8G=V 70A>18. □=B8<5B01>;VB8. !B@C:BC@=V 0=0;>38 D>;VT2>W :8A;>B8.

>4 "% L01B A01.

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

\$0@<0:>48=0

5B>B@5:A0B ?>EV4=5 D>;VT2>W :8A;>B8, =0;568BL 4> F8B>B>:A8G=8E 70A>1V2 ;;0AC 0=B8
<5B01>;VBV2. V= 4VT ?V4 G0A S-D078 ;;VB8==>3> F8;;C V :>=:C@5=B=> V=3V1CT D5@<5=B
483V4@>D>;0B@54C:B07C, 70?>1V30NG8 B0:8< G8=>< 2V4=>2;5==N 483V4@>D>;0BC 4>
B5B@03V4@>D>;0BC, I> T =5>1EV4=8< 4;O A8=B57C B0 @5?;V:0FVW ;;VB8=. :B82=>

?@>;VD5@CNGV B:0=8=8, B0:V O: 7;>O:VA=V CB2>@5==O, :VAB:>289<>7>;, D5B0;L=V ;;VB8=8,
A;87>20 >1>;>=:0 @>B>2>W ?>@>6=8=8 V :8H5G=8:C, ;;VB8=8 A5G>2>3> <5B>B@5:A0BC. A:V;L:8
?@>;VD5@0FVO 7;>O:VA=8E B:0=8= H284H0 70 =>@<0;L=C, <5B>B@5:A0B <>65 ?>@CHC20B8
WE=V9 @>728B>;, =5 70240NG8 =5>1>@>B=>W H:>48 74>@>28< B:0=8=0

5E0=V7< 4VW <5B>B@5:A0BC ?@8 70E2>@N20==V =0 @52<0B>W4=89 0@B@8B =52V4<>89,
<>6;82>, 2V= 2?;820T=0 V1EV4=5 ?>40;LH5 282G5==O 4VW <5B>B@5:A0BC =0 V?0B>35=57>
@8 ?A>@V07V H284:VABL @5?;V:0FVW 5?VB5;V0;L=8E ;;VB8= C H:V@V 7=0G=> 28I0 70 =>@ABV
?@>;VD5@0FVW T ?V4AB02>N 4;O 70AB>AC20==O <5B>B@5:A0BC 4;O :>=B@>;N ?A>@V0B8G=>3>
?@>F5AC.

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

@8 ?5@>@0;L=>AC20==V 5B>B@5:A0B «1525» H284:> 01A>@1CTBLAO. VA;O ?@89<0==O 4>78 2 □
2,5 <3 <0:A8<0;L=0 :>=F5=B@0FVO <5B>B@5:A0BC C A8@>20BFV :@>2V 4>AO30TBLAO G5@57
0,83 3>48=8 V AB0=>28BL C A5@54=L>

;87L:> 50 % <5B>B@5:A0BC 7207CTBLAO 7 1V;;0<8 ?;07<8 :@>2V. VA;O @>7?>4V;5==O
<5B>B@5:A0B =0:>?8GCTBLAO ?5@5206=> C ?5GV=FV, =8@:0E B0 A5;57V=FV C 283;04V ?>;V3;CB0
<0BV2, O:V <>6CBL CB@8BO3<< B86=V2 B0 AC20==V C =87L:8E 4>70E C F5@51@>A?V=0;L=C
@V48=C ?@>=8:0T 4 =0?V2282545==O <5B>B@5:A0BC 20@VNT 2V4 3 4> 17 3>48= V 2 A5@54=L>
28BL 6-7 3>48=. # ?0FVT=BV2 V7 B@5BL>N :0<5@>N @>7?>4V;C (?;52@0;L=8< 28?>B><, 0AF8B><)
?5@V>4 =0?V2282545==O <5B>B@5:A0BC <>65 1CB8 4> 4 @07V2 1V;LH8

@81;87=> 10 % 2V4 ?@89=OB>W 4>78 <5B01>;V7CTBLAO C ?5GV=FV. >;>2=8< <5B01>;VB<<
<5B>B@5:A0BC T 7-3V4@>:A8<5B>B@5:A0B.
5B>B@5:A0B 5:A:@5BCTBLAO ?5@5206=> C =57 =8@:0<8 (H;OE>< DV;LB@0FVW C ;;C1>G:0E V
0:B82=>W A5:@5FVW C ?@>:A8<0;L=8E :0=0;LFOE).
@81;87=> 5-20 % <5B>B@5:A0BC V 1-5 % 7-3V4@>:A8<5B>B@5:A0BC 282>48BLAO 7 6>2GN. 002=0
28@065=0 5=B5@>35?0B8G=0 @5F8@:C;OFVO <5B>B@5:A0BC.
?0FVT=BV2 V7 ?>@CH5==O<8 DC=:FVW =8@>: 282545==O <5B>B@5:A0BC 2V41C20TBLAO
7=0G=> ?>2V;L=VH5. 52V4<>, G8 2?;820NBL ?>@CH5==O DC=:FVW ?5GV=:8 =0 282545==O
<5B>B@5:A0BC.

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

>:070==O.

@>B8@52<0B8G=0 B5@0?VO. 52<0B>W4=89 0@B@8B 2 0:B82=V9 D>@@>A;8E ?0FVT=BV2, O:8<
?>:070=5 ;V:C20==O E2>@>1><>48DV:CNG8<8 ?@>B8@52<0B8G=8<8 ?@5?0@0B0<8 (%).
V:C20==O ?A>@V07C. "O6:V B0 ?>H8@5=V D>@<8 ?A>@V07C 2C;L30@=>3>, >A>1;82> 1;OH:>2>3>
B8?C, C 4>@>A;8E ?0FVT=BV2 ?@8 =55D5:B82=>ABV B@048FV9=>W B5@0?VW, =0?@8;;04,
D>B>;V:C20==O, PUVAB5@0?VW B0 70AB>AC20==O @5B8=>W4V2.
/: F8B>AB0B8G=89 ?@5?0@0B. V4B@8AB@>3> ;V;59:>7C.

@>B8?>:070==O.

- V?5@GCB;82VABL 4><5B>B@5:A0BC 01> 4> V=H8E :>=5=BV2 ?@5?0@0BC.
- =0G=V ?>@CH5==O DC=:FVW ?5GV=:8 (@V25=L 1V;V@C1V=C > 85,5
- ;>26820==O 0;:>3>;5
- >@CH5==O DC=:FVW =8@>: (:;V@5=A :@50B8=V=C < 20 <;/E2).
- 002=V ?>@CH5==O 7 1>:C A8AB5<8 :@>2>B2>@5==O (7>:@5<0 3V?>?;07VO :VAB:>2>3><>7:C,
;59:>?5=VO, B@><1>F8B>?5=VO 01> 28@065=0 0=5
- 45DVF8B.
- "O6:V, 3>AB@V 01> E@>=VG=V V=D5:FVW (=0?@8;;04, BC15@:C;L>7 01>).
- 8@07:8 @>B>2>W ?>@>6=8=8 01> H;C=:>2>-.8H:>2>3> B@0:BC.
- 5@V>4 203VB=>ABV B0 3>4C20==O 3@C44N.
- 0:F8=0FVO 6828<8 20:F8=0<8 C ?5@V>4 ;V:C20==O <5B>B@5:A0B>

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

;;>3>;L, 35?0B>B>:A8G=V B0 35<0B>B>:A8G=V ?@5?0@0B8
878: 35?0B>B>:A8G=>W 4VW <5B>B@5:A0BC 7@>AB0T C @07V @53C;O@=>3> 26820==O 0;:>3>;N
01> AC?CB=L>3> ?@89<0==O V=H8E 35?0B>B>:A8G=8E ?@5?0@0BV2. !;V4 C=8:0B8 26820==O
0;:>3>;N ?V4 G0A ;V:C20==O <5B>B@5:A0B>;), =5>1EV4=0 >A>1;820 >15@56=VABL. <1V=>20=5
;V:C20==O <5B>B@5:A0B>< V @5B8=>W40<8, =0?@8;;04 0F8B@5B8=>< 01> 5B@5B8=0B><,
71V;LHCT @878: @>728B:C 35?0B>B>:A8G=>ABV.

@8 :><1V=>20=V9 B5@0?VW <5B>B@5:A0B>< V ;5D;C=>< G0AB>B0 @>728B:C ?0=F8B>?5=VW V
35?0B>B>:A8G=8E 5D5:BV2 71V;LHCTBLAO.

5@>@0;L=V 0=B81V>B8:8

=B81V>B8:8 4;O ?5@>@0;L=>3> 70AB>AC20==O (7>:@5<0 B5B@0F8;;V=8, E;>@0; B0 0=B81V>B8:8
H8@>:>3> A?5:B@0 4VW, I> =5 01A>@1CNBLAO)<>6CBL 2?;820B8 =0 5=B5@>35?0B8G=C
F8@:C;OFVN 2=0A;V4>: V=3V1C20==O D;>@8 :8H5G=8:C 01> ?@83=VG5==O 10:B5@V0;L=>3>
<5B01>;V7

=B81V>B8:8

"0:V 0=B81V>B8:8 O: ?5=VF8;V=8, 3;V:>?5?B848, AC;LD>=0D;>:A0F8= V F5D0;>B8= C ?>>48=>:8E
28?04:0E <>6CBL 7=86C20B8 =8@:>289 ;;V@5=A <5B>B@5:A0BC, 2=0A;V4>: G>3> <>65
?V428IC20B8AO 9>3> :>=F5=B@0FVO C A8@>20BFV :@>2V B0 ?>A8;N20B8AO B>:A8G=0 4VO =0
A8AB52>B2>@5==O V B@02=89 B@0:B.

@>15=5F84, A;01:V >@30=VG=V :8A;>B8, ?V@07>;8 B0 =5AB5@>W4=V ?@>B870?0;L=V ?@5?0@0B8
@>15=5F84, A;01:V >@30=VG=V :8A;>B8 (=0?@8;;04, ?5B;L>2V 4VC@5B8:8) B0 ?V@07>;8
(D5=V;1CB07=>) <>6CBL C?>2V;L=N20B8 282545==O <5B>B@5:A0BC, 2=0A;V4>: G>3> <>65
7@>AB0B8 9>3> :>=F5=B@0FVO 2 A8@>20BFV :@>2V B0 ?>A8;N20B8AO 35<0B>;>3VG=0

B>:A8G=VABL. 878: B>:A8G=8E 5D5:BV2 B0:>6 7@>AB0T C @07V :<1V=>20=>3> 70AB>AC20==O
<5B>B@5:A0BC 2 =87L:8E 4>70E V =5AB5@>W4=8E ?@>B870?0;L=8E ?@5?0@0BV2 01> A0;VF8;0BV2.
>15@56=VABN A;V4 AB028B8AL 4> ?@89>5AB5@>W4=8E ?@>B870?0;L=8E ?@5?0@0BV2 B0
<5B>B@5:A0BC ?@>BO3>< 24 3>48= ?VA;O ?@89>;8 @V25=L <5B>B@5:A0BC C ?;072V <>65
?V428I8B8AL B0 A?@8G8=8B8 ?V428I5==O B>:A8G=>ABV ?@5?0@0BC.
>A;V465==O =0 B20@8=0E ?>:070;8, I> =5AB5@>W4=V ?@>B870?0;L=V ?@5?0@0B8 (), C B>20
:8A;>B0, 28;;8:0NBL 7=865==O :0=0;LF52>W A5:@5FVW <5B>B@5:A0BC 9 2V4?>2V4=> ?>A8;NNBL
9>3> B>:A8G=V 5D5:B8. @>B5 ?V4 G0A ;;V=VG=8E 4>A;V465=L, C O:8E B0 A0;VF8;>2C :8A;>BC
70AB>A>2C20;8 O: ?@5?0@0B8 AC?CB=L>W B5@0?VW 4;O ;V:C20==O ?0FVT=BV2 7 @52<0B>W4=8<
0@B@8B><, =5 2V47=0G5=> 71V;LH5==O G0AB>B8 ?>1VG=8E @50:FV9. 3040=V ?@5?0@0B8
4>72>;OTBLAO ?@>4>26C20B8 70AB>A>2C20B8 C A;;04V :>W B5@0?VW @52<0B>W4=>3>
0@B@8BC >4=>G0A=> 7 <5B>B@5:A0B><, 0;5 ;8H5 ?V4 @5B5;L=8< <548G=8< =03;O4>
15@56=VABL ?>B@V1=0 ?@8 >4=>G0A=>AC20==V =5AB5@>W4=8E ?@>B870?0;L=8E ?@5?0@0BV2
() B0 <5B>B@5:A0BC, >A:V;L:8 ?@8 >4=>G0A=>AC20==V <5B>B@5:A0BC (C 28A>:8E 4>70E) B0
?>2V4><;O;>AO ?@> A5@9>7=V ?>1VG=V O28I0, B0:V O: @0?B>25 B06:5 ?@83=VG5==O :VAB:>2>3>
<>7:C, 0?;0AB8G=0 0=52>.:8H:>20 B>:A8G=VABL, B0 =02VBL >:@5.
@5?0@0B8, O:V 4VNBL =5A?@8OB;82> =0 :VAB:>289 <>7>:
@8 AC?CB=V9 B5@0?VW ?@5?0@0B0<8, O:V <>6CBL A?@8G8=OB8 ?>1VG=V 5D5:B8 =0 :VAB:>289
<>7>: (=0?@8;;04, AC;LD>=0,, ?V@8<5B02C20B8 <>6;82VABL @>728B:C 1V;LH 28@065=8E 35
<0B>;>3VG=8E ?>@CH5=L.
@5?0@0B8, O:V A?@8G8=ONBL 45DVF8B D>;0BV2
@8 AC?CB=V9 B5@0?VW ?@5?0@0B0<8, O:V A?@8G8=ONBL 45DVF8B D>;0BV2 (=0?@8;;04,
AC;LD>=0 V=H>W AB>@>=8, AC?CB=V9 ?@89> ?@5?0@0BV2, I> ;VT2C :8A;>BC 01> 2VB0
=HV ?@>B8@52<0B8G=V ?@5?0@0B8
@8 :<<1V=>20=>AC20==V 7 V=H8<8 ?@>B8@52<0B8G=8<8 ?@5?0@0B0<8 (=0?@8;;04, A>;O<8 7>;>B0,
?5=VF8;0<, 3V4@>:A8E;>@>EV=><, AC;LD0A0;078=><, 070BV?>@8=><, F8;>A?>@8=><) B>:A8G=0
4VO <5B>B@5:A0BC 70728G09 =5 ?>A8;NTBLAO.
!C;LD0A0;078=
%>G0 ?@8 :<<1V=>20=>AC20==V 7 AC;LD0A0;078=>< 4VO <5B>B@5:A0BC <>65 ?>B5=FVN20B8AO
2=0A;V4>: ?@83=VG5==O A8=B57C D>;VT2>W :8A;>B8 AC;LD0A0;078=>< (C @57C;LB0BV G>3> <>65
7@>AB0B8 G0AB>B0 ?>1VG=8E 5D5:BV2), >4=0: ?V4 G0A :V;L:>E ;;V=VG=8E 4>A;V465=L B0:V
5D5:B8 A?>AB5@V30;8AO ;8H5 C ?>>48=>:8E 28?04:0E.
=3V1VB>@8 ?@>B>==>3> =0A>A0
@8 >4=>G0A=>AC20==V <5B>B@5:A0BC B0 V=3V1VB>@V2 ?@>B>==>3> =0A>A0 (=0?@8;;04, >
<5?@07>; 01> ?0=B>?@07>;) <>6;820 WE 270T<>4VO. <5?@07>; <>65 7=86C20B8 =8@:>289 ;;V@5=A
<5B>B@5:A0BC, 0 ?0=B>?@07>; <>65 V=3V1C20B8 =8@:>2C 5;V2>46C20;>AO @>728B:><
5>1EV4=> 1@0B8 4> C2038 D0@<0>:V=5B8G=C 270T<>4VN I0 ?V4 D0@<0>:V=5B8G=>N :@82>N 4;O
<5B>B@5:A0BC), 0=B8:>=2C;LA0=B0<8 (7=86CTBLAO :>=F5=B@0FVO <5B>B@5:A0BC 2 :@>2V) V
5- DB>@C@0F8;>< (71V;LHCTBLAO ?5@V>4 =0?V2282545==O 5-DB>@C@0F8;C). VA;O
70AB>AC20==O <5B>B@5:A0BC @07>< 7 >:A0F8;V=>< V >5?@07>;>< 2 >:@5<8E 28?04:0E
A?>AB5@V30;>AO 7=0G=5 ?V428I5==O :>=F5=B@0FVW <5B>B@5:A0BC 2 A8@>20BFV :@>2V. >2V4>
<;O;>AO ?@> 270T<>4VN < V <5B>B@5:A0B>< (7 @>728B:>< F8@>7C ?5GV=:8, <O7>2>-A:5;5B=8E
V=D5:FV9 B0 7=865==O< :V;L:>ABV B@>1>F8BV2). 5>1EV4=> 7 >15@56=VABN 70AB>A>2C20B8
<5B>B@5:A0B C :<<1V=0FVW 7 V<>4C;OB>@0<8 ?@8 ?@>2545==V >@B>?548G=8E >?5@0FV9, :>;8
2@07;82VABL 4> V=DV:C20==O 71V;LHCTBLAO!C?CB=T 70AB>AC20==O <5@:0?B>?C@8=C B0
<5B>B@5:A0BC <>65 ?V428I8B8 1V>4>ABC?=VABL<5@:0?B>?C@8=C, V<>2V@=>, 70 @0EC=>:
A?>2V;L=5==O <5B01>;V70FVW <5@:0?B>?C@8=C.
!C?CB=T 70AB>AC20==O <5B>B@5:A0BC B0 B5>DV;V=C <>65 7<5=H8B8 ;;V@5=A B5>DV;V=C. !;V4
70157?5G8B8 @53C;O@=5 287=0G5==O @V2=N B5>DV;V=C C ?;072V.
!0;VF8;0B8, D5=V;1CB07>=, D5=VB>W=, 10@1VBC@0B8, B@0=:2V;V70B>@8, ?5@>@0;L=V
:>=B@0F5?B828, B5B@0F8;;V=8, ?>EV4=V 0?V@8=C, AC;LD015=7>9=0 :8A;>B0 70<, C=0A;V4>: G>3>
?V428ICTBLAO 9>3> 1V>4>ABC?=VABL (>?>A5@54:>20=5 71V;LH5==O 4>78).

0A>18 4;O 0=5AB57VW =0 >A=>2V >:8AC 07>BC <>6CBL ?>A8;N20B8 2?;82 <5B>B@5:A0BC =0
<5B01>;VG=5 ?5@5B2>@5==O D>;VT2>W :8A;>B8, =0A;V4:>< G>3> T =5 ?@>3=>7>20=5
?@83=VG5==O DC=:FV9 :VAB:>2>3><>7:C 28A>:>3> ABC?5=O BO6:>ABV B0 AB<0B8B. ;O 7=865==O
V=B5=A82=>ABV B0:8E O28I =5>1EV4=5 22545==O D>;V=0BC :0;LFVN.
>?5AB8@0
@07V >4=>G0A=>3> 70AB>AC20==O 7 V=H8<8 F8B>AB0B8:0<8 ;;V@5=A <5B>B@5:A0BC <>65
7=86C20B8AO.
VB0@0;L=>3> 70AB>AC20==O, I> ;VT2C :8A;>BC, <>6CBL 7@30=V7
>3;O4C =0 <>6;8289 2?;82 =0 VA;V465=L (V;>3VG=V ?@>F54C@8 4;O 287=0G5==O VW @50:FVW). V4
G0A B5@0?VW <5B>B@5:A0B>< =5 A;V4 ?@>2>48B8 AC?CB=N 20:F8=0FVN 6828<8 20:F8=0<8.
0?>W, O:VD5W= V B5>DV;V=
!;V4 C=8:=CB8 =043> 26820==O =0?>W2, I> D5W= 01> B5>DV;V= (:020, E>;>4=V :>D5W=-2W, G>@=89
G09) ?V4 G0A ;V:C20==O <5B>B@5:A0B><, >A:V;L:8 F5 <>65 7<5=H8B8 5D5:B82=VABL
<5B>B@5:A0BC G5@57 270T<>4VN <5B>B@5:A0BC B0 <5B8:A0=B8=C 045=>78=>28E @5F5?B>@V2.
&8B0@01V=
8?04:8 BO6:8E =52@>B8G=8E @>7;04V2 2V4 3>;>2=>3> 1>;N 4> ?0@0;VGC, :><8 B0
V=AC;LB>?>4V1=8E 5?V7>4V2 A?>AB5@V30;8AO ?5@5206=> C 4VB59 B0 ?V4;VB:V2 =0 D>=V
;V:C20==O <5B>B@5:A0B>< 2 :><1V=0FVW 7 F8B0@01V=><.
V4 G0A AC?CB=L>3> 70AB>AC20==O V7<5B>B@5:A0B>< L-0A?0@03V=070 1;>:CT 4VN
>AB0==L>3>.
>:@5<8E 28?04:0E :>@B8:>AB5@>W48 ?@872>48;8 4> 35=5@0;V7>20=>3> >?5@V7C20;L=>3> ;8H0N C
?0FVT=BV2 7>?5@V7C20;L=8< ;8H0T< 01> ?>AB35@?5B8G=>N =52@0;3VTN B0 ?@8 AC?CB=L>
!C?CB=T 70AB>AC20==O <5@:0?B>?C@8=C B0 <5B>B@5:A0BC <>65 ?V428I8B8 :>=F5=B@0FVN
<5@:0?B>?C@8=C 2 ?;072V, V<>2V@=>, 70 @0EC=>: A?>2V;L=5==O <5B01>;V70FVW
<5@:0?B>?C@8=C.
"0:8< G8=><, AC?CB=T 70AB>AC20==O <>65 28<030B8 :>@83C20==O 4>78.
V@8<5B0 :>-B@V<:A07>;, I> 70AB>A>2CNBLAO C :><1V=0FVW 7 <5B>B@5:A0B><, <>6CBL
A?@8G8=OB8 ?0=F8B>?5=VN, V<>2V@=>, 70 @0EC=>: 4>40B:>2>3> ?@83=VG5==O @54C:B078
483V4@>D>;VT2>W :8A;>B8 2=0A;V4>: 2?;82C F8E @5G>28= B0 <5B>B@5:A0BC (?@> 270T<>4VW =0
0FVT=B8, O:V >4=>G0A=> ?@89<0NBL @5B8=>W48, =0?@8;;04 5B@5B8=0B, B0 <5B>B@5:A0B
<0NBL ?5@51C20B8 ?V4 @5B5;L=8< =03;O4>< 7 <5B>N A2>TG0A=>3> 28O2;5==O >7=0: <>6;82>3>
?V428I5=>3> @V2=O ?5GV=:>2>W B>:A8G=>ABV.

?>:A0F8=
=86CT :0=0;LF52C A5:@5FVN; A;V4 1CB8 >15@56=8< ?@8 70AB>AC20==V FL>3> ;V:0@AL:>3>
70A>1C @07>< V7 <5B>B@5:A0B>

A>1;82>ABV 70AB>AC20==O.
V:C20==O <5B>B@5:A0B>< <0T 74V9A=N20B8AO ?V4 =03;O4>< :20;VDV:>20=8E ;V:0@V2->=:>;>3V2,
45@<0B>;>3V2 01> @52<0B>;>3V2, O:V <0NBL 4>A2V4 70AB>AC20==O EVB5@0?52B8G=8E
70A>1V2.
5B>B@5:A0B A;V4 ?@89<0B8 @07 =0 B8645=L. # @5F5?BV A;V4 2:070B8 45=L ?@89>
V4 G0A B5@0?VW <5B>B@5:A0B>< =5>1EV4=89 ?8;L=89 =03;O4 70 ?0FVT=B0<8 7 <5B>N
A2>TG0A=>3> 28O2;5==O >7=0: <>6;82>W B>:A8G=>W 4VW B0 ?>1VG=8E 5D5:BV2. @0E>2CNG8
@878: BO6:8E 01> =02VBL ;5B0;L=8E B>:A8G=8E @50:FV9, ?0FVT=BV2 ?>B@V1=> 45B0;L=>
?@>V=D>@4> <>6;828E CA::04=5=L B0 @5:>5=4>20=8E 70AB5@56=8E 70E>4V2. @>B5 ?@89>< 4>7,
I> ?5@528ICNBL 20 <3/B8645=L, <>65 AC?@>2>46C20B8AO 7=0G=8< ?V428I5==O< B>:A8G=>ABV,
>A>1;82> ?@83=VG5==O< :VAB:>2>3> <>7:C.
>2V4><;O>;AO, I> <5B>B@5:A0B <>65 =530B82=> 2?;820B8 =0 @5?@>4C:B82=C DC=:FVN,
A?@8G8=OB8 >;V3>A?5@>CH5==O <5=AB@C0;L=>3> F8;;C B0 0<5=>@5N ?V4 G0A B5@0?VW B0
?@>BO3>< =5B@820;>3> ?5@V>4C ?VA;O WW ?@878=5==O. :@V< FL>3>, <5B>B@5:A0B
A?@8G8=OT 5<1@V>B>:A8G=VABL, 28:84=V B0 2=CB@VH=L>CB@>1=V ?0B>;>3VW. V4?>2V4=>,
;V:0@ <0T ?>?5@548B8 ?0FVT=BV2 @5?@>4C:B82=>3> 2V:C ?@> 2AV<>6;82V @878:8, ?>2O70=V 7
?@89><< ?@5?0@0BC.
5:><5=4>20=V 4>A;V465==O B0 70AB5@56=V 70E>48

5@54 ?>G0B:><;V:C20==O <5B>B@5:A0B>< 01> ?@8 ?@>4>265==V B5@0?VW ?VA;O ?5@5@28
=5>1EV4=> ?@>2>48B8 0=0;V7 :@>2V 7 287=0G5==O<;59:>F8B0@=>W D>@ABV B@><1>F8BV2,
@V2=V2 ?5GV=:>28E D5@<5=BV2, 1V;V@C1V=C, 0;L1C20B:8 :@>2V V ?>:07=8:V2 DC=:FVW =8@>;, 0
B0:>6 @5=B35=>3@0DVG=5 >1AB565==O >@30=V2 3@C4=>W ;;VB8=8. @8 =0O2=>ABV ;;V=VG=8E
?>:070=L A;V4 ?@87=0G8B8 4>A;V465==O 7 <5B>N 28;;NG5==O BC15@:C;L>7C B0 35?0B8BC.
V4 G0A B5@0?VW (?@>BO3< ?5@H8E 6 40;LH> ?@>2>48B8 =0ABC?=V 4>A;V465==O:
1AB565==O @>B>2>W ?>@>6=8=8 V 3>@;0 4;O 28O2;5==O 728E >1>;>=:.
=0;V7 :@>2V 7 287=0G5==O<;59:>F8B0@=>W D>@ABV B@><1>F8BV2. 02VBL ?@8
70AB>AC20==V C 728G09=8E B5@0?52B8G=8E 4>70E <5B>B@5:A0B <>65 @0?B>2> A?@8G8=OB8
?@83=VG5==O A8AB5<8 :@>2>B2>@5==O. # @07V 7=0G=>3> 7=865==O :V;L:>ABV ;59:>F8BV2 G8
B@><1>F8BV2 ;V:C20==O <5B>B@5:A0B>< A;V4 =5309=> ?@8?8=8B8 V ?@87=0G8B8 A8<0B8G=C
?V4B@81EV4=> ?@>V=AB@C:BC20B8 I>4> =5>1EV4=>ABV =5309=> ?>2V4<;OB8 ;V:0@N ?@>
1C4L-O:V >7=0:8 V A8<8, I> A2V4G0BL ?@> @>728B>: V=D5:FVW. @8 AC?CB=V9 B5@0?VW 35
<0B>B>:A8G=8<8 ?@5?0@0B0<8 (=0?@8;;04, ;5D;C=>) =5>1EV4=> @5B5;L=> AB568B8 70 :V;L:VABN
;59:>F8BV2 V B@><1>F8BV2 C :@>2V.
>A;V465==O DC=:FVW ?5GV=:8. A>1;82C C203C =5>1EV4=> ?@84V;OB8 28O2;5==N >7=0:
CH:>465==O ?5GV=:8. V:C20==O <5B>B@5:A0B>< =5 A;V4 @>7?>G8=0B8 01> =5>1EV4=>
?@87C?8=OB8 C @07V 1C4L-O:8E 2V4E8;5=L @57C;LB0BV2 DC=:FV>=0;L=8E ?5GV=:>28E B5ABV2
01> 1V>?AVW ?5GV=:8.
0728G09 ?>:07=8:8 =>@<0;V7CNBLAO ?@>BO3<< 42>E B86=V2, ?VA;O G>3> ;V:C20==O 70 @VH5==O
<;V:0@O <>65 1CB8 ?@>4>265=>.
\$C=:FV>=0;L=V ?5GV=:>2V ?@>18. 5>1EV4=> ?@>25AB8 4>40B:>2V 4>A;V465==O, I>1 2AB0=>28B8,
G8 <>6=0 70 4>?><>3>N ?5GV=:>28E ?@>1 V7 A5@VW 1V>EV2V 01> H;OE>< 287=0G5==O @V2=O
?@>?5?B84C :>;035=C III B8?C 28O28B8 35?0B>B>:A8G=VABL V7 4>AB0B=L>N B>G=VABN. "0:89
0=0;V7 4>72>;8BL 48D5@5=FVN20B8 ?0FVT=BV2 157 6>4=8E D0:B>@V2 @878:C V E2>@8E V7
D0:B>@0<8 @878:C, 7>:@5<0 B0:8E, I> 7>;26820;8 0;;>3>;5< 4> ?>G0B:C ;V:C20==O; C O:8E
2V47=0G0TBLAO ABV9:5 ?V428I5==O @V2=O ?5GV=:>28E D5@<5=BV2; O:V <0NBL 70E2>@N20==O
?5GV=:8 2 0=0<=57V 01> AV<59=89 0=0<=57 A?04:>28E 70E2>@N20=L ?5GV=:8; O:V E2>@V =0
FC:@>289 4V015B, >68@V==O; O:V <0;8 @0=VH5 :>=B0:B 7 35?0B>B>:A8G=8<8 ?@5?0@0B0<8 01> EV
1,5 3 01> 1V;LH5.
>=B@>;L ?5GV=:>28E D5@<5=BV2 C A8@>20BFV :@>2V.
>2V4<;O;>AO ?@> B@0=78B>@=5 ?V428I5==O @V2=V2 B@0=A0 2-3 @07V2 ?>=04 25@E=N <56C
=>@<8) C 45O:8E ?0FVT=BV2. # @07V ABV9:>3> ?V428I5==O 0:B82=>ABV ?5GV=:>28E D5@<5=BV2
=5>1EV4=> 7=86C20B8 4>78 01> ?@8?8=OB8 ;V:C20==O <5B>B@5:A0B>
A;V;L:8 <5B>B@5:A0B G8=8BL B>:A8G=C 4VN =0 ?5GV=:C, C ?5@V>4 ;V:C20==O ?@5?0@0B< =5
A;V4 157 O2=>W =5>1EV4=>ABV ?@87=0G0B8 V=HV 35?0B>B>:A8G=V ?@5?0@0B8. "0:>6
=5>1EV4=> C=8:0B8 01> 7=0G=> >1<568B8 A?>6820==O 0;;>3>;N. A>1;82> @5B5;L=> ?>B@V1=>
:>=B@>;N20B8 @V2=V ?5GV=:>28E D5@<5=BV2 C ?0FVT=BV2, O:V >45@6CNBL AC?CB=N B5@0?VN
V=H8<8 35?0B>B>:A8G=8<8 V 35<0B>B>:A8G=8<8 ?@5?0@0B0<8 (7>:@5<0 ;5D;C=>).
I>?AVO ?5GV=:8. >AB0B=VE 4>:07V2 C ?V4B@82545==O 1V>?AVW ?5GV=:8 7<5B>N :>=B@>;N
35?0B>B>:A8G=>ABV C ?0FVT=BV2 V7 @52<0B>;>3VG=8<8 70E2>@N20==O<8 =5<0T. # 28?04:C
1V;LH B@820;>3> ;V:C20==O B06:8E D>@< ?A>@V07C 70 4>?><>3>N <5B>B@5:A0BC, C 72O7:C 7
<>6;82VABN @>728B:C 35?0B>B>:A8G=>ABV A;V4 ?@>2>48B8 1V>?AVN ?5GV=:8. !;V4
@>7@V7=OB8 ?0FVT=BV2 V7 =>@<0;L=8< B0 ?V428I5=8< @878:>< 35?0B>B>:A8G=>ABV.
/I> @57C;LB0B 1V>?AVW ?5GV=:8 A2V4G8BL BV;L:8 ?@> =57=0G=V N >C=V:0), B5@0?VN
<5B>B@5:A0B>< <>6=0 ?@>4>26C20B8 ?@8 @5B5;L=> B06:V 7 IV 70 H:0;>N >C=V:0, B0:8< ?0FVT=B0
< ?@89>< <5B>B@5:A0BC A;V4 ?@8?8=8B8.
0FVT=B8 157 D0:B>@V2 @878:C. 3V4=> 7 ACG0A=8<8 <548G=8<8 7=0==O<8, C ?@>2545==V
1V>?AVW ?5GV=:8 =5<0T =5>1EV4=>ABV 4> 4>AO3=5==O =0:>?8G5=>W 4>78 1,0-1,5 3.
0FVT=B8, O:V <0NBL D0:B>@8 @878:C. \$0:B>@8 @878:C 2 ?5@HC G5@3C 2;;NG0NBL: 7;>26820==O
0;;>3>;5< 2 0=0<=57V; ABV9:5 71V;LH5==O :V;L:>ABV D5@<5=BV2 ?5GV=:8; 0=0<=5AB8G=0
35?0B>?0BVO, I> 2;;NG0T E@>=VG=89 35?0B8B B 01> C; A?04:>20 35?0B>?0BVO C @>48==>289
4V015B; >68@V==O; ;V:C20==O 35?0B>B>:A8G=8<8 ?@5?0@0B0<8 01> EV?@5?0@0B0<8. "0:8<
?0FVT=B0< @5:><5=4CTBLAO ?@>2545==O 1V>?AVW ?5GV=:8 ?V4 G0A 01> >4@07C ?VA;O ?>G0B:C
;V:C20==O <5B>B@5:A0B>B>: ?0FVT=BV2 ?@8?8=OT ;V:C20==O 7 @V7=8E ?@8G8= ?@>BO3< 2-4

?AVO<>65 1CB8 ?@>2545=0 ?VA;O ?5@H>W D078. V>?AVN A;V4 ?@>2>48B8, :>;8 ?5@5410G5=>4>23>B@820;5 ;V:C20==O. >2B>@=V 1V>?AVW ?5GV=:8 @5:<5=4CNBLAO ?VA;O 4>AO3=5==O =0:>?8G5=>W 4>78 1,0-1,5 3.

?@>2545==V 1V>?AVW ?5GV=:8 =5<0T =5>1EV4=>ABV C =0ABC?=8E 28?04:0E: ?0FVT=B8 ;VB=L>3> 2V:C; ?0FVT=B8 7 3>AB@8<8 70E2>@N20==O<8; ?0FVT=B8, O:8< ?@>B8?>:070=5 ?@>2545==O 1V>?AVW ?5GV=:8 (B0:V O: ?>@CH5==O A5@F52>W 4VO;L=>ABV, 7 >65 28=8:=CB8 =5>1EV4=VABL C @53C;O@=>2545==V >1AB565=L: =0 ?>G0B:C ;V:C20==O; ?@8 ?V428I5==V 4>78; ?@8 28A>:>

\$C=:FV>=0;L=V =8@:>2V ?@>18 V 4>A;V465==O A5GV. A:V;L:8<5B>B@5:A0B 282>48BLAO ?5@5206=> 7 A5G5N, C ?0FVT=BV2 V7 ?>@CH5==O<8 DC=:FVW =8@>: <>65 A?>AB5@V30B8AO ?V428I5==O :>=F5=B@0FVW <5B>B@5:A0BC 2 :@>2V, =0A;V4:< G>3> <>6CBL 1CB8 B06:V ?>1VG=V @50:FVW. 5>1EV4=> @5B5;L=> :>=B@>;N20B8 AB0= ?0FVT=BV2, C O:8E<>6;82V ?>@CH5==O DC=:FVW =8@>: (=0?@8::04, E2>@8E ;VB=L>3> 2V:C). &5 >A>1;82> 206;82> C @07V AC?CB=L>W B5@0?VW ?@5?0@0B0<8, I> 7=86CNBL 5:A:@5FVN <5B>B@5:A0BC, G8=OBL =5A?@8OB;82C 4VN =0 =8@:8 (7>:@5<0 =5AB5@>W4=V ?@>B870?0;L=V ?@5?0@0B8) 01> =0 A8AB5 2>B2>@5==O. 53V4@0B0FVO B0:>6 <>65 ?>B5=FVN20B8 B>:A8G=C 4VN <5B>B@5:A0BC. 5:> <5=4>20=> ?@>25AB8 ?@>F54C@8 7>;C6=5==O A5GV B0 71V;LH5==O 4VC@57C. >A;V465==O 48E0;L=>W A8AB5<8. >6;8289 @>728B>: 3>AB@>3> 01> E@>=VG=>3> V=B5@AB8FV0;L=>3> ?=52<=>VBC, I> G0AB> AC?@>2>46CTBLAO 5>78=>DV;VTN 2 :@>2V, B0:>6 ?>2V4><;O;>AO ?@> ;5B0;L=V 28?04:8. > B8?>28E A81EV4=> ?5@52V@OB8 ?@8 :>6=>=B@>;L=> A>1;82> ACE89, =5?@>4C:B82=89 :0H5;L) B0 ?V428I5==O B52V4><;5=V ?@> @878: @>728B:C ?=52 <=>VBC B0 ?>?5@5465=V ?@> =5>1EV4=VABL =5309=>3> 725@=5==O 4> A2>3> ;V:0@O ?@8 ?>O2V C =8E ABV9:>3> :0H;N G8 7048H:8. ;O ?0FVT=BV2 V7 A8<0<8 C@065==O ;535=V2 70AB>AC20==O <5B>B@5:A0BC A;V4 ?@8?8=8B8 V ?@>25AB8 @5B5;L=5 >1AB565==O (C B>@>3@0DVG=5 4>A;V465==O) 7 <5B>N 28;CG5==O <>6;82>ABV V=D5:FVW. @8 ?V4>7@V =0 =0O2=VABL 70E2>@N20==O ;535=L, A?@8G8=5=5 <5B>B@5:A0B><, A;V4 @>7?>G0B8 ;V:C20==O :>@B8:>AB5@>W40<8 157 2V4=>2;5==O B5@0?VW <5B>B@5:A0B> >B5=FV9=> ;5B0;L=V ?>@BC=VAB8G=V V=D5:FVW, 7>:@50 ?=52<=>VO *Pneumocystis-carinii*, <>6CBL 28=8:0B8 =0 D>=V ;V:C20==O <5B>B@5:A0B>ABV C ?0FVT=B0 A8@CH5=L ;535=528E DC=:FV9 A;V4 1@0B8 4> C2038 <>6;82VABL =0O2=>ABV ?=52<=>VW *Pneumocystis-carinii*. A:V;L:8<5B>B@5:A0B 2?;820T =0 V, 2V= <>65 7;>3VG=8E B5ABV2. A>1;820 >15@56=VABL =5>1EV4=0 ?@8 ;V:C20==V ?0FVT=BV2 V7 =50:B82=8<8 E@>=VG=8<8 V=D5:FVO<8 (B0:8<8 O: >?5@V7C20;L=89 ;8H09, BC15@:C;L>7, 35?0B8B 01> !) G5@57 WE=N <>6;82C 0:B820FVN. # ?5@V>4 ;V:C20==O <5B>B@5:A0B>< =5 A;V4 ?@>2>48B8 20:F8=0FVN 6828<8 20:F8=0<8. # ?0FVT=BV2, O:V >B@8<0; C B0:8E 28?04:0E ;V:C20==O <5B>B@5:A0B>< A;V4 ?@8?8=8B8. @8 2V4ACB=>ABV A?>=B0==>W @53@5AVW ;V<8 =5>1EV4=> @>7?>G0B8 B5@0?VN F8B>B>:A8G=8<8 ;V:0@AL:8<8 70A>10<8. > ?>G0B:C ;V:C20==O <5B>B@5:A0B>< A;V4 CAC=CB8 ?;52@0;L=V 28?>B8 B0 0AF8B8. V0@5O B0 28@07:>289 AB<0B8B <>6CBL 1CB8 >7=0:0<8 B>:A8G=>W 4VW B0 28<030NBL ?@8?8=5==O ;V:C20==O G5@57 @878: @>728B:C 35<>@03VG=>3> 5=B5@8BC B0 ;5B0;L=8E 28?04:V2 2=0A;V4>: ?5@D>@0FVW :8H5G=8:C. VB04C:B8, I> ;VT2C :8A;>BC, D>;V=>2C :8A;>BC 01> WE=V ?>EV4=V, <>6CBL 7=86C20B8 5D5:B82=VABL <5B>B@5:A0BC. 0AB>AC20==O 4VBO< 2V:< 4> 3 @>:V2 =5 @5:><5=4>20=5 G5@57 2V4ACB=VABL 4>AB0B=VE 40=8E AB>A>2=> 5D5:B82=>ABV B0 157?5:8 70AB>AC20==O ?@5?0@0BC FV9 :0B53>@VW ?0FVT=BV2. @8 ;V:C20==V <5B>B@5:A0B>< <>6;825 ?>=>2;5==O 45@<0B8BC, V=4C:>20=>3> >?@>1VG=8E 5D5:BV2). V4 G0A #>?@>4=>G0A=8< 70AB>AC20==O< <5B>B@5:A0BC <>6CBL 703>AB@N20B8AO ?@>O28 ?A>@V07C. VA;O B5@0?VW ;V:0@AL:8<8 70A>10<8, I> ?>A8;NNBL B>:A8G=C 4VN, 0 B0:>6 ?VA;O >?@>2>3> <>7:C 7=86CTBLAO @575@2 :VAB:>2>3> <>7:C. 0 D>=V B5@0?VW <5B>B@5:A0B>< F5 <>65 ?@8725AB8 4> ?V428I5=>W GCB;82>ABV :VAB:>2>3> <>7:C, B0 ?@83=VG5==O 35<0B>?>5B8G=>W DC=:FVW :VAB:>2>3> <>7:C. @8 ?@>2545==V 4>23>B@820;>W B5@0?VW V7 70AB>AC20==O< <5B>B@5:A0BC =5>1EV4=5 ?@>2545==O 1V>?AVW :VAB:>2>3> <>7:C.

@8 >4=>G0A=>AC20==V 7 ?@><5=52>N B5@0?VTN <5B>B@5:A0B <>65 71V;LHC20B8 @878:
=5:@>7C <O:8E B:0=8=
@07V 3>AB@>3> ;V1;0AB=>3> ;59:>7C, <5B>B@5:A0B <>65 A?@8G8=8B8 1V;L 2 5?V30AB@0;L=V9
4V;O=FV 7 ;V2>3> 1>:C (70?0;5==O :0?AC;8 A5;57V=:8 G5@57 @>7?04 ;59:5
"01;5B:8 5B>B@5:A0B «1525» 7C. 0FVT=B8 7 @V4:VA=8<8 A?04:>28<8 ?@>1;5<0<8 =5?5@5=>A8
<>ABV 30;0:B>78, 45DVF8B<> ;0:B078 0?70 01> ?>@CH5==O< 2A<>:BC20==O 3;N:>78-30;0:B>78 =5
?>28==V ?@89<0B8 F59 ?@5?0@0B.
5B>B@5:A0B A;V4 70AB>A>2C20B8 7 25;8:>N >15@56=VABN ?@8 ;V:C20==V ?0FVT=BV2 V7
AC?@5AVTN, ?>@CH5==O<8 DC=:FVW =8@>:, ?5?B8G=>N 28@07:>N, 28@07:>28< :>;VB<<,
28@07:>28< AB<0B8B<<, 4V0@5TN, ?>30=8< 7030;L=8< AB0=< , 0 B0:>6 ?@8 ;V:C20==V <0;5=L:8E
4VB59 V ;N459 ;VB=L>3> 2V:C.
@8 =002=>ABV ?;52@0;L=>3> 5:AC40BC 01> 0AF8BC =5>1EV4=> ?@>25AB8 4@5=C20==O 4>
?>G0B:C ;V:C20==O <5B>B@5:A0B> F5 =5<>6;82>, B5@0?VN <5B>B@5:A0B<> =5 ?@87=0G0B8.
@8 ?>02V A8:A8G=>W 4VW =0 B@02=89 B@0:B (70728G09 A?>G0B:C @>72820TBLAO AB<0B8B)
;V:C20==O <5B>B@5:A0B>< <0T 1CB8 ?@87C?8=5=>, >A:V;L:8 C @07V ?@>4>265==O B5@0?VW
<>6;8289 @>728B>: 35<>@03VG=>3> 5=B5@8BC B0 ?5@D>@0FVO :8H5G=8:C, I> AB0=>2;OBL
703@>7C 4;O 68BBO ?0FVT=B0. !B0=8, I> ?@872>4OBL 4> 7=52>4=5==O >@30=V7<0B8B <>6CBL
?V428I8B8 B>:A8G=VABL <5B>B@5:A0BC 70 @0EC=>: ?V428I5==O @V2=O ?@5?0@0BC 2>@30=V7
AC20==O <5B>B@5:A0BC 4> 7=8=:5==O A8
?0FVT=BV2 V7 ?0B>;>3VG=8< =0:>?8G5==O< @V48=8 C ?>@>6=8=0E BV;0 («B@5BV9 ?@>ABV@»)
B0:V O: 0AF8B8 B0 ?;52@0;L=89 28?VB, ?5@V>4 =0?V2282545==O <5B>B@5:A0BC 7 ?;07<8 :@>2V
4>2H89.
>A>1;82>N >15@56=VABN A;V4 ?@89<0B8 <5B>B@5:A0B ?@8 V=AC;V=>70;56=>2>@CH5==V
DC=:FVW ;535=V2.
>2V4><;O;>AO ?@> >:@5728B:C F8@>7C ?5GV=:8 =0 B;V B5@0?VW V7 70AB>AC20==O<
<5B>B@5:A0BC 157 ?>?5@54=L>3> 71V;LH5==O 0:B82=>ABV B@0=A0
/: V V=HV F8B>B>:A8G=V ?@5?0@0B8, <5B>B@5:A0B <>65 A?@8G8=8B8 A8=4@<;V78AC ?CE;8=8
C E2>@8E 7V H284:> ?@>3@5ACNG8<8 ?CE;8=0<8. ;O 70?>1V30==O 01> 7<5=H5==O ?@>02V2 FL>3>
AB0=C A;V4 268B8 2V4?>2V4=8E ?V4B@8
!5@9>7=V, V=>4V 7 ;5B0;L=8< =0A;V4:<<, H:V@=V @50:FVW, B0:V O: A8=4@< !BV25=A0-6>=A>=0
B0 B>:A8G=89 5?V45@<0;L=89 =5:@>;V7 (A8=4@<< 09T;;0), 2 >:@5<8E 28?04:0E 2V42>3> 01>
B@820;>3> ?@89>.
0E8A=C B5@0?VN D>;V=0B<< :0;LFDVN (=52V4;:04=0 B5@0?VO) A;V4 ?@>2>48B8 ?VA;O B5@0?VW
<5B>B@5:A0B><, ?>G8=0NG8 7 4>78 100 <3/<2 ?>;IV ?>25@E=V BV;0. 0;56=> 2V4 4>78
<5B>B@5:A0BC B0 B@820;>ABV V=DC7VW =5>1EV4=> 22>48B8 @V7=V 4>78 D>;V=0BC :0;LFDVN
4;O 70E8ABC =>@<0;L=8E ;VB8= 2V4 B>:A8G=>W 4VW <5B>B@5:A0BC.
0;56=C =52V4;:04=C B5@0?VN D>;V=0B<< :0;LFDVN A;V4 @>7?>G8=0B8 ?@>BO3<< 42-48 3>48= ?VA;O
22545==O <5B>B@5:A0BC. ">=F5=B@0FVN <5B>B@5:A0BC A;V4 :>=B@>;N20B8 G5@57 24, 48 B0 72
3>48= B0 ?@>4>26C20B8 :>=B@>;L C @07V =5>1EV4=>ABV 7 <5B>N 287=0G5==O B@820;>ABV
?5@V>4C ?@>2545==O =52V4;:04=>W B5@0?VW D>;V=0B<< :0;LFDVN.
?@8 ;V:C20==V ?A>@V07C B0 ?A>@V07=>3> 0@B@8BC ?@>2>48B8 :>=B@>;L :>=F5=B@0FVW
<5B>B@5:A0BC ?>B@V1=> ?@>BO3>< 42>E ?5@H8E B86=V2 >48= @07 =0 B8645=L, ?@>BO3><
=0ABC?=>3> 6=V 420 B86=V, ?>BV< 70;56=> 2V4 :V;L:>ABV ;59:>F8BV2 B0 AB01V;L=>ABV AB0=C
?0FVT=B0, ?@8=09<=V >48= @07 =0

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

0AB>AC20==O <5B>B@5:A0BC C ?5@V>4 203VB=>ABV ?@>B8?>:070=5. >A;V465==O 28O28;8
B5@0B>35==C 4VN <5B>B@5:A0BC (?@5?0@0B A?@8G8=02 703815;L ?;>40 B0/01> C@>465=V 2048
@>728B:C, >A>1;82> ?@8 70AB>AC20==V C B@8<5AB@V 203VB=>ABV), B>3> =5 A;V4
70AB>A>2C20B8 C ?5@V>4 203VB=>ABV. @8 70AB>AC20==V ?@5?0@0BC C >1<565=>W 3@C?8
203VB=8E 6V=>: (42) 2V47=0G5=> 71V;LH5==O G0AB>B8 (1:14) 204 @>728B:C (:@0=V0;L=8E,
A5@F52>-AC48==8E B0 48AB0;L=8E). # @07V 2V4
0FVT=B8 @5?@>4C:B82=>3> 2V:C (V 6V=:8, V G>;>2V:8) B0 WE=V ?0@B=5@8<0NBL
:>@8ABC20B8AO 5D5:B82=8<8 :>=B@0F5?B82=8<8 70A>10<8 C ?5@V>4 ;V:C20==O V I>=09<5=H5
?@>BO3>< 6 < 5B>B@5:A0B «1525». /:I> ?0FVT=B:0 01> ?0@B=5@H0 G>;>2V:0, O:89 ;V:CTBLAO

<5B>B@5:A0B><, 2A5 6 B0:8 70203VB=VT, =5>1EV4=> ?@>:=AC;LBC20B8AO 7 D0EV2FO<8
AB>A>2=> @878:C =5A?@8OB;82>3> 2?;82C <5B>B@5:A0BC =0 ?;V4. >3;O4C =0 <>6;82C
35=>B>:A8G=C 4VN <5B>B@5:A0BC 2AV< 6V=:0<, O:V 1060NBL 70203VB=VB8, @5:<5=4CTBLAO
725@=CB8AO 70 :=AC;LB0FVTN 4> A?5FV0;VABV2 7 35=5B8:8 ?@8<>6;82>ABV ?5@54 ;V:C20==O<
?@5?0@0B<, 0 G>;>2V:0< ?>@048B8AO 7 D0EV2FO<8 AB>A>2=> <>6;82>ABV :=A5@20FVW A?5@
<8 4> ?>G0B:C B5@0?VW.

A:V;L:8 <5B>B@5:A0B ?@>=8:0T C <0B5@8=AL:5 <>;> V <>65 28O2;OB8 B>:A8G=C 4VN =0 =5
<>2;OB, ;V:C20==O ?@5?0@0B< ?@>B8?>:070=5 C ?5@V>4 3@C4=>3> 3>4C20==O. @8
=5>1EV4=>ABV 70AB>AC20==O ?@5?0@0BC 3>4C20==O A;V4 ?@8?8=8B8 4> ?>G0B:C B5@0?VW.

**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.**

5B>B@5:A0B G8=8BL A;01:89 01> ?>B@0=A?>@B< 01> V=H8<8 <5E0=V7<0<8. @8 ;V:C20==V
<5B>B@5:A0B>< <>6CBL A?>AB5@V30B8AO B0:V ?>1VG=V 5D5:B8 7 1>:C &! O: 2B<;N20=VABL,
A?;CB0=VABL A2V4<>ABV, A>=:82VABL; 740B=VABL :5@C20B8<0H8=0<8 B0 <5E0=V7<0<8 <>65
?>@CHC20B8AL C ?>>48=>:8E 28?04:0E. &V ?>@CH5==O ?@>O2;ONBLAO 1V;LH>NN ?@8
?>T4=0==V 7 0;>3>;5

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

V:C20==O ?@5?0@0B< 5B>B@5:A0B «1525» <0T 74V9A=N20B8AO ?V4 =03;O4<< ;V:0@O->=:>;>30,
45@<0B>;>30 01> @52<0B>;>30, 0 B0:>6 B5@0?52B0. @5?0@0B ?@89<0B8 1 @07 =0 B8645=L.
V:0@, O:89 28?8ACT @5F5?B, <>65 ?>7=0G8B8 =0 @5F5?BV 45=L ?@89>
"01;5B:8 :>2B0B8 =5 @>76>2CNG8, 70 1 3>48=C 4> 01> G5@57 1,5-2 3>48=8 ?VA;O ?@89=OBBO W6V.
>78 ?@8 @52<0B>W4=>@V07V

A>@V07. 5:<>5=4>20=0 ?>G0B:>20 4>70 4>@>A;8< AB0=>28BL 2,5<3 B@8GV =0 B8645=L 7
12- 3>48==8<8 V=B5@20;0<8 01> 7,5<3 1 @07 =0 B8645=L.

52<0B>W4=89 0@B@8B. >G0B:>20 4>70 4>@>A;8< AB0=>28BL 7,5<3 =0 B8645=L >4=>@07>2>.
0728G09 B5@0?52B8G=89 5D5:B 4>AO30TBLAO C?@>4>26 6 B86=V2 7 ?>40;LH8< ?>;V?H5==O<
AB0=C ?0FVT=B0 ?@>BO3<< =0ABC?=8E 12 B86=V2 G8 1V;LH5. @8 2V4ACB=>ABV
B5@0?52B8G=>3> 5D5:BC B0 >7=0: B>:A8G=>ABV G5@57 6-8 B86=V2 ;V:C20==O B86=52C 4>7C
?@5?0@0BC <>6=0 ?>ABC?>2> 71V;LHC20B8 =0 2,5<3.

28G09=0 >?B8<0;L=0 4>70 7=0E>48BLAO 2 4V0?07>=V 2V4 7,5 4> 15<3 9=5 ?>28==0 ?5@528IC20B8 20
<3 =0 B8645=L. @07V 2V4ACB=>ABV B5@0?52B8G=>3> 5D5:BC G5@57 8 B86=V2 ;V:C20==O V7
70AB>AC20==O< <0:A8<0;L=>W 4>78 ?@89>< <5B>B@5:A0BC ?@8?8=ONBL. @8 4>AO3=5==V
B5@0?52B8G=>3> 5D5:BC ?V4B@870 ?@5?0@0BC <0T 1CB8 7=865=0 4> =09=86G>3> <>6;82>3>
@V2=O. ?B8<0;L=0 B@820;VABL ;V:C20==O<5B>B@5:A0B>< =0@07V =5 2AB0=>2;5=0, ?@>B5
?>?5@54=V 40=V A2V4G0BL ?@> 715@565==O ?>G0B:>2>3> 5D5:BC I>=09<5=H5 ?@>BO3>< 2 @>:V2
?@8 70AB>AC20==V ?V4B@87. VA;O ?@8?8=5==O ;V:C20==O ?@5?0@0B< A8<8 E2>@>18 <>6CBL
?@>O28B8AO 7=>2C G5@57 3-6 B86=V2.

/: F8B>AB0B8G=89 ?@5?0@0B.

5B>B@5:A0B <>6=0 70AB>A>2C20B8 ?5@>@0;L=> C 4>70E 4> 30<3/<2, 28IV 4>78 =5>1EV4=>
22>48B8 ?0@5=B5@0;L=>.

V:C20==O ?0FVT=BV2 V7 ?>@CH5==O<8 DC=:FVW =8@>:

5B>B@5:A0B «1525» =5>1EV4=> 7 >15@56=VABN ?@87=0G0B8 ?0FVT=B0< V7 ?>@CH5==O<8
DC=:FVW =8@>.: >78 A;V4 :>@83C20B8 70;56=> 2V4 ;V@5=AC :@50B8=V=C (?@8 ;V@5=AV >50<;
/E2 7=86C20B8 4>7C =5<0T ?>B@518, ?@8 ;V@5=AV 20-50<;E2 4>7C 7=86C20B8 =0 50 %, 0 ?@8
;V@5=AV <20<;E2 <5B>B@5:A0B =5 ?@87=0G0B8).

V:C20==O ?0FVT=BV2 V7 ?>@CH5==O<8 DC=:FV9 ?5GV=:8

5B>B@5:A0B «1525» ?@87=0G0B8 7 25;8:>N >15@56=VABN (O:I> F5 :=G5 ?>B@V1=>) ?0FVT=B0< 7V
7=0G=8<8 ?>@CH5==O<8 DC=:FV9 ?5GV=:8 (=0O2=8<8 G8 2 0=0<=57V, >A>1;82> A?@8G8=5=8<8
7;>26820==O< 0;>3>;5<). 5B>B@5:A0B =5 <>6=0 70AB>A>2C20B8 ?@8 @V2=V 1V;V@C1V=C >85,5
V:C20==O ?0FVT=BV2 ;VB=L>3> 2V:C

A:V;L:8 7 2V:< ?>3V@HCTBLAO DC=:FVO ?5GV=:8 B0 =8@>:, 0 B0:>6 7=86CNBLAO @575@28
D>;0BV2, <>65 1CB8 4>FV;L=8< 7=865==O 4>7 4;O ?0FVT=BV2 ;VB=L>3> 2V:C.

VB8.

@5?0@0B 70AB>A>2C20B8 4VBO<, E2>@8<=0 3>AB@89 ;VF8B0@=89 ;59:>7 (O: ?V4B@8
<5=4CTBLAO 70AB>A>2C20B8 4;O 4VBO< 4> 3 @>:V2, >A:V;L:8 =5<0T 4>AB0B=L>W V=D>@<0FVW
I>4> 5D5:B82=>ABV B0 157?5:8 ?@5?0@0BC 4;O FVTW 3@C?8 ?0FVT=BV2.

5@54>7C20==O.

!8<8 ?5@54>7C20==O. !?>AB5@V30NBLAO ?5@5206=> A8<8, ?>2O70=V 7 ?@83=VG5==O< A8AB5<8
:@>2>B2>@5==O. !8<8 2;;NG0NBL ;59:>F8B>?5=VN, B@><1>F8B>?5=VN, 0=5?5=VN, =59B@>?5=VN,
?@83=VG5==O :VAB:>2>3><>7:C, 70?0;5==O A;87>28E >1>;>=:, AB<0B8B, CB2>@5==O 28@07>: C
@>B>2V9 ?>@>6=8=V, =C4>BC, 1;N20==O, CB2>@5==O 28@07>: B0 :@>2>B5GV C H;C=:>2>-.8H:>2>
>2V4><;O;>AO ?@> ;5B0;L=V 28?04:8 2=0A;V4>: A5?A8AC, A5?B8G=>3> H>:C, =8@:>2>W
=54>AB0B=>ABV B0 0?;0AB8G=>W 0=56 ?>2V4><;O;>AO ?@> 28?04:8 ?5@54>7C20==O, I> V=>4V
<0;8 ;5B0;L=V =0A;V4:8, ?@8 ?><8;:>2>@0;L=>
V:C20==O ?@8 ?5@54>7C20==V.!?5F8DVG=8< 0=B84>B<< <5B>B@5:A0BC T :0;LFDVN D>;V=0B. V=
=59B@0;V7CT ?>1VG=V B>:A8G=V 5D5:B8 <5B>B@5:A0BC.
@07V 28?04:>2>3> ?5@54>7C20==O :0;LFDVN D>;V=0B A;V4 22>48B8 2=CB@VH=L>25==> 01>
2=CB@VH=L><07>2> C 4>7V, I> 4>@V2=NT 01> ?5@528ICT 4>7C <5B>B@5:A0BC, =5 ?V7=VH5, =V6
G5@57 3>48=C ?VA;O 70AB>AC20==O <5B>B@5:A0BC. >BV< 22>48B8 I5 :V;L:0 4>7 :0;LFDVN
D>;V=0BC, 4>:8 :>=F5=B@0FVO <5B>B@5:A0BC C A8@>20BFV :@>2V =5 AB0=5 =86G>N 70 10□7
<>;L. @8 7=865==V @V2=O ;59:>F8BV2 ?@8 ?@89>7 <5B>B@5:A0BC, =0?@8;:04, 6-12 <3,
2=CB@VH=L>25==C 01> 2=CB@VH=L><07>2C B5@0?VN :0;LFDVN D>;V=0B>< A;V4 @>7?>G8=0B8
O:=09H284H5, 7 ?>40;LH8< :V;L:0@07>28< ?@89>1V30==O 28?040==N >A04C <5B>B@5:A0BC B0/01>
9>3> <5B01>;V BV2 C =8@:>28E :0=0;LFOE. 28G09=89 35<>4V0;V7 V ?5@8B>=50;L=89 4V0;V7 =5
?>:@0ICNBL 282545==O <5B>B@5:A0BC. 0157?5G8B8 5D5:B82=89 ;;V@5=A <5B>B@5:A0BC 4>72>;OT
V=B5=A82=89 V=B5@

>1VG=V @50:FVW.

09A5@9>7=VH8<8 ?>1VG=8<8 5D5:B0<8 ?@8 ;V:C20==V <5B>B@5:A0B>< T ?@83=VG5==O A8AB5<8
:@>2>B2>@5==O B0 =51060=V @50:FVW 7 1>:C B@02=>3> B@0:BC. # 1V;LH>ABV 28?04:V2
?>1VG=V @50:FVW <0NBL 72>@>B=89 E0@0:B5@ C @07V WE @0==L>3> 28O2;5==O. @8 WE ?>O2V
=5>1EV4=> 7<5=H8B8 4>7C ?@5?0@0BC 01> ?@8?8=8B8 B5@0?VN V 268B8 =5>1EV4=8E 70E>4V2.
>2B>@=5 70AB>AC20==O B5@0?VW <5B>B@5:A0B>< ?@>2>4OBL 7 >15@56=VABN, ?VA;O
@5B5;L=>W >FV=:8 =5>1EV4=>ABV 2 B0:>A8;5=8< :>=B@>;5< G5@57 <>6;825 2V4=>2;5==O
B>:A8G=>ABV.

I>:C A5@F52>W A8AB5<8

8?VB C ?>@>6=8=C ?5@8:0@40, B0=040 ?5@8:0@40, ?5@8:0@48B.

I>:C A8AB5<8 :@>2V B0 ;VW A8AB5<8

@83=VG5==O DC=:FVW :VAB:>2>3><>7:C (?@>O2;OTBLAO ?5@5206=> C 283;O4V ;59:>?5=VW, E>G0
<>6;82V B@><1>F8B>?5=VO, 0=5 WE=V :<1V=0FVW); ?0=F8B>?5=VO, <530;>1;0AB=0 0=5
?>>48=>:8E 28?04:0E ?>2V4><;O;>AO ?@> B06:5 ?@>3@5ACNG5 ?@83=VG5==O DC=:FVW
:VAB:>2>3><>7:C, 03@0=C;>F8B>7, 0?;0AB8G=0 0=5?0BVO, ;V?@>;VD5@0B82=V 70E2>@N20==O
(G0AB:>2> >1>@>B=V), 5>78=>DV;VO B0 =59B@>?5=VO. 5@H8<8 >7=0:0<8 =5157?5G=8E 4;O 68BBO
CA;:04=5=L <>6CBL 1CB8: ?V428I5==O B5@;V, 28@07:8 A;87>2>W >1>;>=:8 ?>@>6=8=8 @>B0,
A:0@38, ?>4V1=V 4> B0:8E, I> 28=8:0NBL ?@8 3@8?V, A8;L=0 2B<;N20=VABL, =>A>20 :@>2>B5G0
B0 :@>2>28;828 C H:V@C. !;V4 =5309=> ?@8?8=8B8 ?@89>< <5B>B@5:A0BC ?@8 7=0G=>ABV
5@8B@>F8BV2.

I>:C =5@2>2>W A8AB5<8

!>=:82VABL, 3>;>2=89 1V;L, AB<;N20=VABL. @8 B5@0?VW =87L:8<8 4>70<8 <5B>B@5:A0BC
<>6;82V =57=0G=V B@0=78B>@=V ?>@CH5==O :>3=VB82=8E DC=:FV9, =5728G=V 2V4GCBBO C
4V;O=FV G5@5?0.

45O:8E 28?04:0E 2V47=0G5=V ?>@CH5==O 7>@C, 1V;L, ?0@5AB57VW C :V=FV2:0E, 7

I>:C >@30=V2 7>@C

0BC<0=5==O 7>@C, ?>4@07=5==O >G59, :>=N=:B82VB, @5B8=>?0BVO. 2B@0B0 7>@C,
?5@V>@1VB0;L=89 =01@O:, 1;5D0@8B, 5?VD>@0 B0 D>B>D>1VO, A:>@><8=CI0 A;V?>B0.

I>:C 48E0;L=>W A8AB5<8, >@30=V2 3@C4=>W ;;VB8=8 B0 A5@54>ABV==O

%@>=VG=89 V=B5@AB8FV0;L=89 ?=52<>=VB (A8<8, I> A2V4G0BL ?@> ?>B5=FV9=> A5@9>7=5
C@065==O ;535=V2 ?@8 V=B5@AB8FV0;L=><;O;>AO ?@> 3>AB@89 =01@O: ;535=V2 ?VA;O
?5@>@0;L=>3> B0 V=B@0B5:0;L=>3> 70AB>AC20==O <5B>B@5:A0BC.
>2V4><;O;>AO ?@> =>A>2V :@>2>B5GV, 0;L25>;VB, ?;52@0;L=89 28?VB. # 45O:8E 28?04:0E
2V47=0G0;8AO ;535=5289 DV1@>7, ?=52<>F8AB=0 ?=52<>=VO, 7048H:0, 1@>=EV0;L=0 0AB<0,
D0@8=3VB, 0?=>5; @50:FVW O: ?@8 1@>=EV0;L=V9 0AB AC?@>2>46CNBLAO :0H;5
C;8 >:@52V4><;5==O ?@> A8=4@<, I> ?@>O2;OTBLAO ?;52@0;L=8< 1>;5< B0 ?>B>2I5==O< ?;52@8
(?@8 ;V:C20==V <5B>B@5:A0B>< C 28A>;8E 4>70E).
I>:C B@02=>3> B@0:BC
B@0B0 0?5B8BC, =C4>B0, 1;N20==O, 1>;V C 682>BV, 70?0;5==O B0 CB2>@5==O 28@07>: @>B>2>W
?>@>6=8=8 B0 3>@;0 (>A>1;82> 2?@>4>26 ?5@H8E 24-48 3>48= ?VA;O 70AB>AC20==O
<5B>B@5:A0BC). !B><0B8B, 48A?5?AVO. !?>AB5@V30;0AL 4V0@5O (>A>1;82> 2?@>4>26 ?5@H8E
24-48 3>48= ?VA;O 70AB>AC20==O <5B>B@5:A0BC). 8@07:8 B@02=>3> B@0:BC V :@>2>B5GV. #
>:@5<8E 28?04:0E 2V47=0G0;8AO 5=B5@8B, <5;5=0, 3V=3V2VB. VO <5B>B@5:A0BC =0 A;87>2C
>1>;>=:C :8H5G=8:C <>65 A?@8G8=8B8 @>728B>: A8=4@>
0=:@50B8B, =5V=D5:FV9=89 ?5@8B>=VB.
I>:C =8@>: B0 A5G>284V;L=>W A8AB5<8
0?0;5==O B0 28@07:8 A5G>2>3> @CH5==O DC=:FVW =8@>:, ?>@CH5==O A5G>28?CA:0==O. >2V4>
<;O;>AO ?@> 28?04:8 =8@>:2>W =54>AB0B=>ABV, >;V3C@VW, 0=C@VW, ?>@CH5==O
5;5:B@>;VB=>3> 10;0=AC, 07>B5:@5<8E 28?04:0E 2V47=0G0;0AO ?@>B5W=C@VO.
I>:C H:V@8 B0 ?V4H:V@=8E B:0=8=
:70=B5<0, 5@8B5<0, A25@1V6. !?>AB5@V30;8AO A2VB;>GCB;82VABL, 0;>;?5FVO, >?5@V7C20;L=89
;8H09, 20A:C;VB, 35@?5B8D>@<=V 28A8?8 =0 H:V@V, :@>?82O=:0, 28?040==O 2>;>AAO, ?>@CH5==O
703>T==O @0=, 71V;LH5==O @52<0B8G=8E 2C7;V2, A8=4@< !BV25=A0-6>=A>=0 B0 5?V45@
<0;L=89 =5:@>;V7 (A8=4@<< 09T;;0), 1>;NGVABL ?A>@V0B8G=8E C@065=L. @8 C;LB@0DV>;5B>2>
?@>@<=0 5@8B5<0, 5@8B5<0B>7=V H:V@=V 28A8?0==O. C;8 ?>>48=>:V ?>2V4><;5==O ?@> 3
>AB@C ?0@>=VEVN, DC@C=:C;L>7, B5;50=3V5:B07VN, 3V4@045=VB.
>2V4><;O;>AO ?@> CB2>@5==O 28@07>: =0 H:V@V C E2>@8E =0 ?A>@V07. >6;82V ?>A8;5==O ?V3
<5=B0FVW =V3BV2, 3>AB@0 ?0@>=VEVO, DC@C=:C;L>7 B0 3V4@045=VB.
I>:C <O7>2>-A:5;5B=>W A8AB5<8 B0 <O:8E B:0=8=
@B@0;3VO, AB5>?>@>7, AB@5A>2V ?5@5;<8.
=D5:FVW B0 V=207VW
=865==O @578AB5=B=>ABV 4> V=D5:FV9, D0@8=3VB; ?@>?0A=8FO. V47=0G0;8AO A5?A8A,
>?>@BC=VAB8G=V V=D5:FVW (C 45O:8E 28?04:0E<>6CBL 1CB8 ;5B0;L=8<8), V=D5:FVW,
A?@8G8=5=V F8B><530;>2V@CA>6;82V 28?04:8 =>:0@4V>7C, 3VAB>;07<8, :@8?B>:>:>2>3> 7C B0
@>7AVO=>3> ?@>AB>3> 35@?5AC.
"@02<8 B0 >B@CT==O
C;8 >:@52V4><;5==O ?>2B>@=0 ?>O20 A8 A>=OG=8E >?V:0E H:V@8 2 0=0<=57V.
>I@>O:VA=V, 7;>O:VA=V B0 =5A?5F8DVG=V =>2>CB2>@5==O (C B>V?8)
>2V4><;O;>AO ?@> @>728B>: ;V<, O:V 2 45O:8E 28?04:0E @53@5AC20;8 ?VA;O 2V4< ?@8 ;V:C20==V
<5B>B@5:A0B>
I>:C AC48==>W A8AB5<8
0A:C;VB, :@>2>B5GV @V7=>W ;>:0;V70FVW, 3V?>B5=7VO, B@><1>5<1>;VG=V O28I0 (C B><1>7
0@B5@V9 B0 AC48= 3>;>2=>3> <>7:C, B@><1>D;51VB, B@><1>7 3;81>;8E 25=, B@><1>7
@5B8=0;L=8E 25=, ;535=520 5<1>;VO).
D5:B8 7030;L=>3> E0@0:B5@C B0
0@OG:0, 7030;L=5 =574C60==O, =5:@>7.
I>:C VW A8AB5<8
V?>30<03;>1C;V=5>48=>:8E 28?04:0E 2V47=0G5=V VAC?@5AVO, 0=0DV;0:B8G=V @50:FVW
(0=0DV;0:B8G=89 H>:), 0;5@3VG=89 20A:C;VB.
I>:C 35?0B>1V;V0@=>W A8AB5<8
=0G=5 ?V428I5==O @V2=V2 ?5GV=:>28E B@0=A02V4><;O;>AO ?@> 68@>25 ?5@5@>465==O
?5GV=:8, DV1@>7 B0 F8@>7 ?5GV=:8 (G0AB> 7CAB@VG0TBLAO, =572060NG8 =0 =>@<0;L=V
?>:07=8:8 ?5GV=:>28E D5@<5=BV2 70 40=8<8 @53C;O@=>3> :>=B@>;N); 4V015B>?>4V1=89
<5B01>;V7<; 7=865==O @V2=O A8@>20B>:2>3> 0;L1C >AB@89 35?0B8B B0 35?0B>B>:A8G=VABL,

V=:>8 @50:B820FVO E@>=VG=>3> 35?0B8BC, 3>AB@0 48AB@>DVO ?5GV=:8, 3>AB@89
35?0B8G=89 =5:@>7, "O6:0 D>@<0 =5D@>?0BVW, =8@:>20 =54>AB0B=VABL, 70?0;5==O B0
CB2>@5==O 28@07>: A5G>2>3> @CH5==O A5G>28?CA:0==O, 487C@VO, >;V3C@VO, 0=C@VO,
3V?5@C@8:5=F5=B@0FVW A5G>28=8 V :@50B8=V=C 2 A8@>20BFV :@>2V, 07>B5
@V<FL>3>, A?>AB5@V30;8AO 35@?5B8G=89 35?0B8B B0 ?5GV=:>20 =54>AB0B=VABL.
I>:C @5?@>4C:B82=>W A8AB5<8 B0 <>;>G=8E 70;>7
8@07:8 B0 70?0;5==O ?VE28. 0DV:A>20=V >:@5, VB5=FVW, >;V3>A?5@7;04V2 <5=AB@C0;L=>3>
F8;;C, 284V;5==O 7 ?VE28, 157?;V44O, 3V=5:×0ABVW.
I>:C ?A8EVG=>W AD5@8
5?@5AVO, A?;CB0=VABL A2V4×>ABV, 7N, V=:>8 157A>==O, <8=CI5 ?>@CH5==O A?@89=OBBO.
=HV ?>1VG=V @50:FVW: 25@B83>, AC4×<8, ;59:>?0BVO, ?0B>;>3VG=V 7=0;L=8E B5ABV2, ;535=52V
CA:;04=5==O 2=0A;V4>: V=B5@AB8FV0;L=>3> 0;L25>;VBC, ?=52<=>VBC B0 ;5B0;L=V 28?04:8 (A8<8
<>6CBL 2;;NG0B8: ?>30=5 A0<>?>GCBBO, CA:;04=5==O 48E0==O I> ?5@5E>48BL 4> 7048H:8 C
AB0=V A?>:N, 1V;L C 3@C4OE), E@>=VG=V >1AB@C:B82=V 70E2>@N20==O ;535=L, 35<0B0<578A,
71V;LH5==O 1V;V@C1V=C, !", " , ;C6=>W D>AD0B078, 35<0BC@VO, BO6:V B>:A8G=V @50:FVW 7
1>:C H:V@8, ?>@CH5==O 703>N20==O @0=.
'0AB>B0 B0 ABC?V=L BO6:>ABV ?>1VG=8E 5D5:BV2 70;560BL 2V4 4>7 B0 G0AB>B8 ?@89>
@53C;O@=>, G5@57 :>@>B:V V=B5@20;8 G0AC :>=B@>;N20B8 AB0= ?0FVT=B0.
!>AB5@V30;8AO B0:V ?>1VG=V @50:FVW O: 5:AD>;V0B82=89 45@<0B8B, 28A8?0==O, F8B>
<530;>2V@CA=0 V=D5:FVO, 7<5=H5==O @V2=O 0;L1C20B:8 :@>2V, 48E0;L=0 =54>AB0B=VABL, ;V
?@>;VD5@0B82=V 70E2>@N20==O, ?>@CH5==O A?5@<0B>35=57C, 0<5=>@5O, 01>@B,
2=CB@VH=L>CB@>1=0 703815;L ?;>40, 2@>465=V 2048 @>728B:C.
"0:>6 ?>2V4×<;O;>AO ?@> B0:V ?>1VG=V @50:FVW, I> 0A>FVN20;8AO V7 70AB>AC20==O<
<5B>B@5:A0BC, O: >AB5?>@>7, @>728B>: FC:@>2>3> 4V015BC, V=HV <5B01>;VG=V ?>@CH5==O
B0 @0?B>289 ;5B0;L=89 =0A;V4>:.

"5@ABV.

3 @>:8.

#<>28 715@V30==O.

5 ?>B@51CT A?5FV0;L=8E C<>2 715@V30==O.

15@V30B8 C =54>ABC?=>

#?0:>2:0.

> 50 B01;5B>: C ?>;V?@>?V;5=>2>B59=5@V, 70:@8B>;V5B8;5=>2>N ?@>1:>N; ?> 1 :>=B59=5@C
@07>< 7 V=AB@C:FVTN 4;O <548G=>3> 70AB>AC20==O C :0@B>==V9 :>@>1FV.

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

0 @5F5?B>

8@>1=8:8.

\$0@<0 5A.EBEWE Pharma Ges.m.b.H. Nfg. KG.

0C?B \$0@<0 <0@53 <1%/Haupt Pharma Amareg GmbH.

01>:

!0;NB0A \$0@<0 <1%/Salutas Pharma GmbH.

0C?B \$0@<0 <0@53 <1%/Haupt Pharma Amareg GmbH.

VAF57=0E>465==O 28@>1=8:V2 B0 9>3> 04@5A0 20465==O 4VO;L=>ABV.

>=475THB@0AA5 11, 4866 #=B5@0E 0< BB5@75T, 2AB@VO /Mondseestrasse 11, 4866 Unterach am
Attersee, Austria.

>=0CAB0CD5@ 378, 93055, 535=A1C@3, V<5GG8=0/ Donaustauer Str. 378, 93055, Regensburg, Germany.

1>:

BB>-2>=-N@V:5-;5T 1, 39179, 0@;515=, V<5GG8=0 / Otto-von-Guericke-Allee 1, 39179 Barleben, Germany.

>=0CAB0CD5@ 378, 93055, 535=A1C@3, V<5GG8=0/ Donaustauer Str. 378, 93055, Regensburg, Germany.