

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

!"#,!"
(MILISTAN MULTISYMPTOMIC)

!,:04:
4VNGV @5G>28=8: ?0@0F5B0<>;, F5B8@878=C 3V4@>E;>@84, E;>@D5=V@0 45:AB@>
<5B>@D0=C 3V4@>1@>
5 <; ACA?5=7VW F5B8@878=C 3V4@>E;>@84C 2,5 <3, E;>@D5=V@0 45:AB@><5B>@D0=C
3V4@>1@>
4>?>28=8: =0B@VN <5B8;?0@015= (219), =0B@VN ?@>?V;?0@015= (217), =0B@VN :0@1>:A8
<5B8;F5;N;>70, 0A?0@B0< (951), :A0=B0=>20 :0<54L, A>@1VBC @>7G8= 70 %, 48=0B@VN 545B0B,
10@2=8: :0@<>W78= (122), FC:@>70, 5A5=FVO D@C:B>20, 2>40 >G8I5=0.

V:0@AL:0 D>@<0. !CA?5=7VO >@0;L=0.
A=>2=V DV78:>-EVABV: cCA?5=7VO 2V4 A2VB;>@>652>3> 4> @>652>3> :>;L>@C.

\$0@<0:>B5@0?52B8G=0 3@C?0. >4 "%. =0;35B8:8 B0 0=B8?V@5B8:8. 0@0F5B0<>;, :<1V=0FVW 157
?A8E>;5?B8:V2. □>4 AT% N02B 51.

\$0@<0:>;>3VG=V 2;0AB82>ABV.
\$0@<0:>48=0
0@0F5B0<>; <0T 0=0;35B8G=C, 60@>7=86C20;L=C B0 A;01:C ?@>B870?0;L=C 4VW. 5E0=V7< 4VW
?>2O70=89 7 V=3V1C20==O< A8=B57C ?@>AB03;0=48=V2 B0 ?5@52060NG8< 2?;82< =0 F5=B@ B5@
<>@53C;OFVW C 3V?>B0;0
&5B8@878=C 3V4@>E;>@84 <0T ?@>B80;5@3VG=V 2;0AB82>ABV 7024O:8 V=3V1C20==N ?V7=L>W
D078 <1>F8B-0:B82CNG89 D0:B>@) B0 AC1AB0=FVO . @0:B8G=> =5 <0T 0=B8E>;V=5@3VG=8E B0
0=B8A5@>B>=V=>28E 5D5:BV2. # B5@0?52B8G=8E 4>70E =5 A?@8G8=OT A540B82=>W 4VW.
5:AB@><5B>@D0=C 3V4@>1@>B8:0H;L>289 70AV1, 5D5:B82=89 ?@8 =5?@>4C:B82=>=EV0;L=>
4@07=5==O 1@>=EV2 ?@8 248E0==V E>;>4=>3> ?>2VB@O. 5E0=V7< 4VW ?>2O70=89 7 2?;82< =0
F5=B@ :0H;N C 4>230AB>
%;>@D5=V@028E 1-@5F5?B>@V2. !?@8G8=OT ?> 28@065=89 A540B82=89 5D5:B.
\$0@<0:>:V=5B8:0.
A<>:BC20==O. VA;O 2=CB@VH=L>3> 70AB>AC20==O ?@5?0@0B H284:> B0<0965 ?>2=VABN 2A
<>:BCTBLAO V7 B@02=>3> B@0:BC.
0AB>AC20==O ?@5?0@0BC >4=>G0A=> 7 W65N =5 2?;820T =0 2A<>:BC20==O, 0;5 B@>E8 7=86CT
H284:VABL.

>7?>4V;. 0@0F5B0<>; 4>1@5 @>7?>4V;OTBLAO C B:0=8=0E (70 28=OB:< 68@>2>W B:0=8=8) B0
A?8=><>7:>2V9 @V48=V. 2O7C20==O ?0@0F5B0<>;C 7 1V;;0<8 ?;07<8 :@>2V AB0=>28BL ?@81;87=>
10 % V 2 =57=0G=V9 7C20==V. &5B8@878= B0:>6 740B5= 72O7C20B8AO 7 1V;;0<8 ?;07<8 :@>2V. 0T
=87L:89 >1T< @>7?>4V;C (V_d 0,5 ;/:3), =5 ?@>=8:0T 2A5@548=C ;;VB8=8.
5B01>;V7 0@0F5B0<>; <5B01>;V7CTBLAO ?5@5206=> C ?5GV=FV H;OE< :>=N30FVW 7
3;N:C@>=V4<, AC;LD0B>< B0 >:8A;5==O 7 CG0ABN 7:A8407 ?5GV=:8 B0 F8B>E@>450. &5B8@878=
C ?5GV=FV ?@0:B8G=> =5 <5B01>;V7CTBLAO. 5:AB@><5B>@D0=C 3V4@>1@> B0 <0965 ?>2=VABN
<5B01>;V7CTBLAO C ?5GV=FV 4> 0:B82=>3> <5B01>;VBC 45:AB@>@D0=C.
82545==O. 5@V>4 =0?V2282545==O ?0@0F5B0<>;C AB0=>28BL 1-3 3>4. # ?0FVT=BV2 V7 F8@>7<
?5GV=:8 ?5@V>4 =0?V2282545==O ?>4>26CTBLAO. 8@>:289 ;;V@5=A ?0@0F5B0<>;C AB0=>28BL
5 %. 82>48BLAO V7 A5G5N, 3>;>2=8< G8=><, C 283;O4V 3;N:C@>=V4=8E B0 AC;LD0B=8E :>=N30BV2.
5=H5 5 % 282>48BLAO C 283;O4V =573> ?0@0F5B0<>;C. @5?0@0B 740B5= 282>48B8AO 7 3@C4=8<
<>;>:4=>@07>2>3> 2=CB@VH=L>3> 70AB>AC20==O F8B8@878=C 3V4@>E;>@84C ?5@V>4 9>3>
=0?V2282545==O AB0=>28BL ?@81;87=> 10 3>4. 5@V>4 =0?V2282545==O 45:AB@><5B>@D0=C
3V4@>1@> - <0965 4 3>4., ?@5?0@0B 282>48BLAO G5@57 =8@:8 C =57

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

>:070==O.

!8<0B8G=5 ;V:C20==O 3@8?C B0 3>AB@8E @5A?V@0B>@=>-2V@CA=8E V=D5:FV9, O:V
AC?@>2>46CNBLAO ?V428I5==O< B5;5< C <O70E V AC3;>10E, 3>;>2=8< 1>;5<, 1>;5< C 3>@;V B0 C
4V;O=FV ?@840B:>28E ?>@>6=8= =>A0, 70:;045==O< =>A0, =568BBN, ACE8< ?>4@07=NNG8< :0H;5<,
A;L>7>B5G5N B0 GE0==O

@>B8?>:070==O.

V428I5=0 GCB;82VABL 4> :>5=BV2 ?@5?0@0BC, 4> 3V4@>:A878=C 01> 4> 1C4L-O:>3> ?>EV4=>3>
?V?5@078=C, V=H8E 0=B83VAB0@CH5==O DC=:FVW ?5GV=:8, =8@>:, 2@>465=0 3V?5@1V;V@C1V=5
7>-6-D>AD0B453V4@>35=078, 0:;>3>;V7<, 70E2>@N20==O :@>2V, 28@065=0 0=5?5=VO,
3V?>:>03C;OFVO, 70:@8B>:CB>20 3;0C:><0, @878: 70B@8@N20==O<8 C@5B@8 B0 ?@>AB0B8,
>1AB@C:FVO H89:8 A5G>2>3> @>4C>45=0;L=89 AB5=>7, =5?@>EV4=VABL :8H5G=8:C, B06:89
?5@51V3 3V?5@B>=VG=>W E2>@>18, 70E2>@N20==O :>@>=0@>8E 0@B5@V9 A5@FO, 0@8B7.
"0:>6 ?@>B8?>:070=89 ?0FVT=B0< 7 @878:>< 28=8:=5==O 48E0;L=>W =54>AB0B=>ABV. 5
70AB>A>2C20B8 @07>< 7 V=3V1VB>@0<8 <=>0:A84078 () B0 ?@>BO3< 2 B86=V2 ?VA;O
?@8?8=5==O 70AB>AC20==O V=3V1VB>@V2, 0=B845?@5A0=BV2 7V 72>@>B=8< =59@>=0;L=8<
70E>?;5==O< A5@>B>=V=C (D;C>:A5B8=, ?0@>:A5B8=).

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

(284:VABL 2A<>:BC20==O ?0@0F5B0<>;C <>65 71V;LHC20B8AO 7024O:8 270T<>4VW 7 <5B>;:>?@0<
B0 4>=>< V 7<5=HC20B8AO - E>;5AB8@003C;O=B=89 5D5:B 20@D0@8=C B0 V=H8E :C<0@8=V2
<>65 1CB8 ?>A8;5=89 ?@8 >4=>G0A=>23>B@820;>45==>AC20==V ?0@0F5B0<>;C 7 ?V428I5==O<
@878:C :@>2>B5GV. 5@V>48G=5 70AB>AC20==O =5<0T 7=0G=>3> 5D5:BC.

0@1VBC@0B8 7<5=HCNBL 60@>7=86C20;L=89 5D5:B ?0@0F5B0<>;C.

@>B8AC4>=<=V ?@5?0@0B8 (2;;NG0NG8 D5=VB>W=, 10@1VBC@0B8, :0@10<075?V=),
10@1VBC@0B8, @8D0=V0784 B0 0:;>3>;L <>6CBL ?>A8;N20B8 B>:A8G=89 2?;82 ?0@0F5B0<>;C =0
?5GV=:C. @8 >4=>G0A=>AC20==V ?0@0F5B0<>;C 7 35?0B>B>:A8G=8<8 70A>10<8 71V;LHCTBLAO
B>:A8G=89 2?;82 ?@5?0@0BV2 =0 ?5GV=:C.

0@0F5B0<>; 7=86CT 5D5:B82=VABL 4VC@5B8:V2.

>D5W= <>65 ?>B5=FVN20B8 7=51>;N20;L=C 4VN ?0@0F5B0<>;C.

%;>@D5=V@0@8, 10@1VBC@0B8), ?@>B8?0@:V=A>=VG=8E ?@5?0@0BV2.

4=>G0A=5 70AB>AC20==O 7V A=>4V9=8<8 70A>10<8, 10@1VBC@0B0<8, 70A?>:V9;828<8 70A>10<8,
=59@>;5?B8:0<8, B@0=:2V;V70B>@0<8, 0=5AB5B8:0<8, =0@>:B8G=8<8 0=0;L35B8:0<8, 0:;>3>;5<
?>A8;NT 4VN E;>@D5=V@0

"@8F8;;VG=V 0=B845?@5A0=B8 01> <0?@>B8;V= (G>B8@8F8;;VG=89 0=B845?@5A0=B) B0 V=HV
?@5?0@0B8 0=B8E>;V=5@3VG=>W 4VW: <>65 ?>A8;8B8AL 0=B8E>;V=5@3VG=0 4VO F8E
?@5?0@0BV2 G8 B0:8E 0=B83VAB01V2 O: E;>@D5=V@01VG=8E 5D5:BV2 7 1>:C H;C=:>2>:-:8H:>2>3>
B@0:BC ?0FVT=B0< =5>1EV4=> O:><>30 @0=VH5 725@=CB8AO 4> ;V:0@O, >A:V;L:8 F5<>65
?@8725AB8 4> ?0@0;VB8G=>W =5?@>EV4=>ABV :8H5G=8:C.

5:AB@><5B>@D0=C 3V4@>1@>40@>=, D;C>:A5B8=, 30;>?5@84>;, ?0@>:A5B8=, ?@>?0D5=>= B0
BV>@84078=.

>A;V465==O D0@<0>:V=5B8G=>W 270T<>4VW ?@>2>48;8AO 4;O F5B8@878=C B0

?A524>5D54@8=C, F8<5B848=C, :5B>:=>07>;C, 5@8B@>

4>A;V465==OE 70AB>AC20==O F5B8@878=C 7 F8<5B848=><, 3;V?V784><, 4V075?0<<< B0

?A524>5D54@8=>< =5 28O2;5=> 4>:07V2 ?>1VG=8E D0@<0>:48=0<, 5@8B@><, :5B>:=>07>;<,&br/>B5>DV;V=< B0 ?A524>5D54@8=>< =5 28O2;5=> 4>:07V2 ?>1VG=8E ;V=VG=8E 270T<>4V9.

:@V< B>3>, >4=>G0A=5 70AB>AC20==O F5B8@878=C 7 <0:@>;V40<8 01> :5B>:=>07>;< =V:>;8=5
?@872>48;> 4> ;V=VG=> 7=0GCI8E 7A;V465==V 1030B>@07>2>3> 70AB>AC20==O @8B>=02V@C

(600<3 2 @078=0 4>1C) B0 F5B8@878=C (10<3 =0 4>1C) B@820;VABL 5:A?>78FVW 4> F5B8@878=C
71V;LH8;0AO ?@81;87=> =0 40 %, C B>9 G0A O: 48A?>78FVO @8B>=02V@C 45I> ?>@CHC20;0AO (-11
%) ?@8 >4=>G0A=>G0 ?>:07=8: 01A>@1FVW 7<5=HCTBLAO =0 1 3>48=C.

5<0T 40=8E I>4> ?>A8;5==O 5D5:BC A540B82=8E 70A>1V2 ?@8 70AB>AC20==V C B5@0?52B8G=8E
4>70E. ;5 A;V4 C=8:0B8 70AB>AC20==O A540B82=8E 70A>1V2 ?V4 G0A ?@89>

B>B>:A8G=V ?@5?0@0B8 <>6CBL 70<0A:C20B8 B0:V A8<8 >B>B>:A8G=>ABV O: 472V= C 2CE0E, 70?0<>@>G5==O B0 =5?@8B><=VABL.

\$>B>A5=A81V;V7CNGV ?@5?0@0B8 <>6CBL A?@8G8=8B8 ?>O2C 4>40B:>2>W

D>B>A5=A81V;V7CNG>W 4VW.

@5?0@0B =5 70AB>A>2C20B8 >4=>G0A=> 7 ?@>B8:0H;L>28<8 70A>10<8, I> ?@83=VGCNBL :0H;L>289 @5D;5:A (=0?@8::04 7 :>45W=×), >A>1;82> ?5@54 A=×<1V=>20=5 70AB>AC20==O ?@5?0@0BV2 CB@C4=NT 2V4E0@:C20==O.

5 70AB>A>2C20B8 >4=>G0A=> 7 0;>3>;5

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

A:V;L:8 ;V:0@AL:89 70AV1T 70AB>AC20==O C ?0FVT=BV2 7 ?>@CH5==O<8 DC=:FVW =8@>: V ?5GV=:8. !;V4 2@0E>2C20B8, I> C E2>@8E =0 0;>3>;L=V =5F8@>B8G=V C@065==O ?5GV=:8 71V;LHCTBLAO @878: 35?0B>B>:A8G=>W 4VW ?0@0F5B0<>;C; ?@5?0@0B <>65 2?;820B8 =0 @57C;LB0B8 ;01>@0B>@=8E 4>A;V465=L I>4> 22V 3;N:>78 B0 A5G>2>W :8A;>B8. >15@56=VABN ?@87=0G0B8 ?@5?0@0B ?0FVT=B0< ;VB=L>3> 2V:C, ?0FVT=B0<, C O:8E VA=CT @878: 28=8:=5==O AC4><=8E =0?04V2, ?0FVT=B0< 7 1@>=EV0;L=>N 0AB<>N, ?5@A8ABCNG8< G8 E@>=VG=8< :0H;>5<, O:89 28=8:0T 2=0A;V4>: :C@V==O, 0AB<8 G8 5 5@54 70AB>AC20==O< ?@5?0@0BC =5>1EV4=> ?>@048B8AL 7 ;V:0@5<, O:I> 28 70AB>A>2CTB5 20@D0@8= G8 ?>4V1=V ?@5?0@0B8, O:V <0NBL 0=B8:>03C;OB=89 5D5:B. 0FVT=B0<, O:V ?@89 <0NBL 0=0;L35B8:8 :>6=89 45=L ?@8 =5A5@9>7=8E 0@B@8B0E =5>1EV4=> ?@>:=AC;LBC20B8AO 7 ;V:0@5 /:I> 3>;>2=89 1V;L AB0T ?>ABV9=8<, A;V4 725@=CB8AO 4> ;V:0@O. @8 B@820;>AC20==V =5>1EV4=> :=B@>;N20B8 DC=:FVN ?5GV=:8, =8@>:, AB0=:@>2>B2>@=>W A8AB5<8. /:I> A8<8 =5 7=8:0NBL, A;V4 725@=CB8AO 4> ;V:0@O.

V4 G0A ;V:C20==O =5 26820B8 A540B82=V ?@5?0@0B8 (>A>1;82> 10@1VBC@0B8), I> ?V428ICNBL A540B82=C 4VN 0=B83VAB0@D5=V@0

=B83VAB0E;>@84) ?@83=VGCNBL H:V@=C 0;5@3VG=C ?@>1C, B>2545==O< ?@89>< ?@5?0@0BC =5>1EV4=> ?@8?8=8B8 70 3 4=V 4> 4>A;V465==O (?5@V>4 282545==O).

/:I> 70E2>@N20==O A?@8G8=5=5 10:B5@V0;L=>N V=D5:FVTN, @5:>×5=4CTBLAO ?0@0;5;L=5 ;V:C20==O 0=B81V>B8:0<8.

/:I> ?V4 G0A 70AB>AC20==O ?@5?0@0BC V;VAB0= ?@5?0@0B ?>B@V1=> =5309=> 2V4

@8 28=8:=5==V H:V@=8E 28A8?0=L 70AB>AC20==O ?@5?0@0BC A;V4 ?@8?8=8B8.

V4 G0A 70AB>AC20==O ?@5?0@0BC 701>@>=OTBLAO 26820B8 0;>3>;L!

>15@56=VABN 70AB>A>2C20B8 E2>@8< =0 FC:@>289 4V015B, B> ?@5?0@0B C A2>T7C. 5

70AB>A>2C20B8 ?0FVT=B0< V7 =5?5@5=>A878, 3;N:>78-A0E0@>78, A0E0@>78-V7><0;LB>78.

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

5 A;V4 70AB>A>2C20B8 ?@5?0@0B C ?5@V>4 203VB=>ABV. 060=> CB@8<0B8AO 2V4

70AB>AC20==O ?@5?0@0BC C ?5@V>4 3>4C20==O 3@C44N 01> A;V4 28@VH8B8 ?8B0==O ?@>

?@8?8=5==O 3>4C20==O 3@C44N, O:I> 28=8::0 =5>1EV4=VABL C 70AB>AC20==V ?@5?0@0BC.

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.

@07V 28=8:=5==O =52@>;>3VG=8E @>7;04V2 (A>=:82VABL, 70?0<>@>G5==O, ?>@CH5==O 7>@C) =5>1EV4=> CB@8<0B8AO 2V4 :5@C20==O 02B>B@0=A?>@B×< 01> @>1>B8 7 V=H8<8 <5E0=V7<0<8.

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

1 6:0 (5 <;) 7=0E>48BLAO 2A5@548=V C?0:>2:8.

VBO< 2V:×< 2V4 4 4> 6 @>:V2: ?> 1 65GFV 2 @078 =0 4>1C;

4>@>A;8< B0 4VBO< 2V:×< AB0@H5 6 @>:V2: ?> 2 65G:8 2 @078 =0 4>1C.

0:A8<0;L=0 B@820;VABL ;V:C20==O: 3-5 4V1.

=B5@20; <0<8 <0T AB0=>28B8 =5 <5=H5 4 3>48=.

5 26820B8 1V;LH5 2 @07V2 =0 4>1C!

VB8.

@5?0@0B 70AB>A>2C20B8 4VBO< 2V:×< 2V4 4-E @>:V2.

5@54>7C20==O.

/28I0 ?5@54>7C20==O 70728G09 28=8:0NBL ?@8 70AB>AC20==V ?0@0F5B0<>;C, O:89 T 4VNG>N
@5G>28=>N ?@5?0@0BC V;VAB0= C 4>@>A;8E C @07>2V9 4>7V 15 3 V 1V;LH5, C 4VB59 C
@07>2V9 4>7V 150 <3/:3 V 1V;LH5. "0:>6 ?5@54>7C20==O <>65 AB0B8AO, O:I> ?@5?0@0B V;VAB0=
!8<0<8 ?5@54>7C20==O <>6CBL 1CB8 1;V4VABL, ACEVABL H:V@8 B0 A;87>28E >1>;>=>;,
?V428I5==O B5B0, 1;N20==O, 0=>@5:AVO, 014>VO :8H5G=8:0, 71V;LH5==O @V2=O B@0=A0B5
@CH5==O <5B01>;V778 B0 0;L1C:), 35?0B>=5:@>7, <>6;820 3>AB@0 =8@:>20 =54>AB0B=VABL V7
3>AB@8< =5:@>7>< :0=0;LFV2, I> <>65 ?@>O2;OB8AO A8;L=8< 1>;5< C 4V;O=FV ?>?5@5:C, 35
<0BC@VTN, ?@>B5W=C@VTN; =8@:>20 :>;V:0, V=B5@AB8FV0;L=89 =5D@8B, ?0?V;O@=89 =5:@>7;
70B@828?CA:0==O, A5@F520 0@8B5, ?0=:@50B8B, 70?0<>@>G5==O, 3>;>2=89 1V;L, ?V428I5==O B5
@CH5==O A=C, A>;82VABL, B@5>@, ?A8E><>B>@=5 71C465==O, 3V?5@0:B82=VABL,
4@0BV2;82VABL, ?A8EVG=V @>7;048, =5GVB:VABL 7>@C, =VAB03, ?>@CH5==O >@VT=B0FVW;
28A8?0==O, A25@1V6, C@B8:0@=89 28A8?, CH:>465==O A;87>2>W >1>;>=:8 @>B>2>W ?>@>6=8=8,
A?;CB0=VABL A2V4><>ABV, ?V428I5=0 2B>;N20=VABL, =574C60==O, :V9, D>B>D>1VO, A540B82=89
5D5:B, ABC?>@, ?@83=VG5==O F5=B@0;L=>W =5@2>2>W A8AB5<8, I> AC?@>2>46CTBLAO @>7;040
<8 48E0==O B0 ?>@CH5==O<8 @>1>B8 A5@F52>-AC48==>W A8AB5<8 (7<5=H5==O G0AB>B8
?C;LAC, ?04V==O 0@B5@V0;L=>3> B8A:C 06 4> AC48==>W =54>AB0B=>ABV), 48?;>?VO, 0B0:AVO,
AC4><8.

@8 B@820;>AC20==V ?@5?0@0BC C 25;8:8E 4>70E 7 1>;C >@30=V2 :@>2>B2>@5==O <>65
@>728=CB8AL 0?;0AB8G=0 0=5?5=VO, 03@0=C;>F8B>7, =59B@>?5=VO, ;59:>?5=VO, B@>
<1>F8B>?5=VO, ?>3V@HCTBLAO 73>@B0;L=0 0:B82=VABL :@>2V, I><>65 AC?@>2>46C20B8AO
:@>2>B5G0<8, 7>:@5<0 7 1>;C B@02=>3> B@0:BC.
V:C20==O. @8 ?5@54>7C20==V =5>1EV4=0 H284:0 <548G=0 4>?><>30. ;O =040==O H284:>W
<548G=>W 4>?><>38 ?0FVT=B0 A;V4 =5309=> 4>AB028B8 C ;V:0@=N, =02VBL O:I> 2V4ACB=V
@0==V A8<8 ?5@54>7C20==O. !8<8 <>6CBL 1CB8 >1<565=V =C4>B>N B0 1;N20==O< 01> <>6CBL =5
2V4>1@060B8 BO6:>ABV ?5@54>7C20==O G8 @878:C C@065==O >@30=V2.
/I> =0470 ?@5?0@0BC 1C;0 ?@89=OB0 C <560E 1 3>48=8, A;V4 @>73;O=CB8 ;V:C20==O 0:B82>20=8<
2C3V;;O=F5=B@0FVN ?0@0F5B0<>;C C ?;072V A;V4 28
4 3>48=8 01> ?V7=VH5 ?VA;O ?@89>F5=B@0FVW T =54>AB>2V@=8<8). V:C20==O N-
0F5B8;F8AB5W=>< <>6=0 70AB>A>2C20B8 ?@>BO3>< 24 3>48= ?VA;O ?@89>BC @V7:> 7=86CTBLAO
?VA;O FL>3> G0AC. # @07V =5>1EV4=>ABV ?0FVT=BC 2=CB@VH=L>25==> A;V4 225AB8 N-0F5B8;-
F8AB5W= 73V4=> 7 2AB0=>2;5=8< ?5@5;V:> 4>7. @8 2V4ACB=>ABV 1;N20==O <>6=0
70AB>A>2C20B8 ?5@>@0;L=> <5BV>=V= O: 2V4?>2V4=C 0;LB5@=0B82C C 2V440;5=8E @09>=0E
?>70 ;V:0@=5N.
@V< 28I5707=0G5=>3>, @5:><5=4CTBLAO ?@>2>48B8 A8<0B8G=C 01> ?V4B@8

>1VG=V @50:FVW.

I>;C H:V@8 B0 ?V4H:V@=>W ;;VB:>28=8: H:V@=V 28A8?0==O, 2;;NG0NG8 35=5@0;V7>20=V, ?;O
<8AB>?0?C;L>7=V, 5@8B5<0B>7=V; :@>?82O=:0, 28A8?8 =0 A;87>28E >1>;>=:0E, 3V?5@5
2V4GCBBO A25@156C, @<=0 5:AC40B82=0 5@8B5<0, A8=4@>< !BV25=A0-6>=A>=0, B>:A8G=89
5?V45@<0;L=89 =5:@>;V7, ABV9:0 <548:0<5=B>7=0 5@8B5<0, AC48==89 =01@O.; A8=FV.
I>;C VW A8AB5<8: @50:FVW 3V?5@GCB;82>ABV, 2;;NG0NG8 0=0DV;0:AVN, 0=0DV;0:B8G=89 H>;,
0=3V>=52@>B8G=89 =01@O:.
I>;C B@02=>3> B@0:BC: 48A?5?A8G=V @>7;048, =C4>B0, 1;N20==O, 1V;L C 682>BV, ACEVABL C
@>BV, 4V0@50, 30AB@8B, ?5GVO, ?V428I5=89 0?5B8B, 70?>@, <5B5>@87
I>;C 35?0B>1V;V0@=>W A8AB5<8: ?V428I5==O 0:B82=>ABV «?5GV=>28E» D5@<5=BV2 (B@0=A0W
D>AD0B078, "), 3V?5@1V;V@C1V=5AC20==V, >A>1;82> C 25;8:8E 4>70E, =5 28;;NG5=0
35?0B>B>:A8G=0 4VO, ?>@CH5==O DC=:FVW ?5GV=:8.
I>;C 5=4>:@8==>W A8AB5<8: 3V?>3;V:5 3V?>3;V:5W :><8.
I>;C :@>2V B0 ;VW A8AB5<8: 0=57, 7048H:0, 1>;V 2 A5@FV), 0?;0AB8G=0 0=5F8B>7, B@>
<1>F8B>?5=VO, ;59:>?5=VO, :@>2>B5GV.
I>;C 48E0;L=>W A8AB5<8: D0@8=3VB, @8=VB, 1@>=E>A?07< C ?0FVT=BV2, C B. G. GCB;828E 4>
0F5B8;A0;VF8;>2>W :8A;>B8 B0 4> V=H8E , 70;;045=VABL =>A0.

I>:C =5@2>2>W A8AB5<8: 70?0<>@>G5==O, 3>;>2=89 1V;L, <>6;820 ?0@04>:A0;L=0 AB8<8, @CE>2V @>7;048, 48A3527VO, =5?@8B><=VABL, B@5<>@, ?>@CH5==O B>=CAC (48AB>=VO), 48A:V=57VO, 25@B83>, ?>@CH5==O :>>@48=0FVW, B@82>6=VABL, 7=5@2>20=VABL, 4@0BV2;82VABL, 59D>@VO, 472V= C 2CE0E, 3>AB@89 ;01V@8=B8B, =52@>7, =52@8B, :><0, 7254V=:8, ?>@CH5==O ?0 <OBV, 0<=57VO.

I>:C A5G>284V;L=>W A8AB5<8: CB@C4=5==O B0 70B@828?CA:0==O, 487C@VO, 5=C@57.
I>:C >@30=V2 7>@C: ?>@CH5==O 0:><>40FVW >:0, =5GVB:VABL 7>@C, 7=865==O 3>AB@>B8 7>@C, <8<>2V;L=V @CE8 >G=8E O1;C:, 70BC<0=5==O, 42>W==O, ?V428I5==O 2=CB@VH=L>>G=>3> B8A:C, 1>O7=L.

A8EVG=V @>7;048: 03@5AVO, A?;CB0=VABL A2V4>>ABV, 45?@5AVO, 30;NF8=0FVW, ?>@CH5==O A=C, 157A>==O, A>;82VABL, =5@2>289 B8:, ACWF840;L=V 4C

I>:C A5@F52>-AC48==>W A8AB5<8: B0EV:0@4VO, 0@8B@5=>3> A5@F518BBO, :>;820==O 0@B5@V0;L=>3> B8A:C.

030;L=V @>7;048: 0AB5=VO, ?V428I5=0 2B><;N20=VABL, =574C60==O, =01@O:.

01>@0B>@=V 4>A;V465==O: 71V;LH5==O <0A8 BV;0.

I>:C @5?@>4C:B82=>W A8AB5<8: ?>@CH5==O <5=AB@C0;L=>3> F8;;C; VB5=FVO.
=HV: ACEVABL A;87>28E >1>;>=>:, ?V428I5=0 ?VB;82VABL, 2B>;N20=VABL.

0B@VN ?@>?V;?0@015= B0 =0B@VN <5B8;?0@015=, I> 2E>4OBL 4> A:;04C ?@5?0@0BC, <>6CBL A?@8G8=OB8 @>728B>: 0;5@3VG=8E @50:FV9 (<>6;82> 2V4AB@>G5=8E).

"5@ABV.
2 @>:8.

#<>28 715@V30==O.
15@V30B8 ?@8 B5 25 °C 2 >@83V=0;L=V9 C?0:>2FV B0 =54>ABC?=>

#?0:>2:0.
> 100 <; ACA?5=7VW C ?;0AB8:>2>=V. > 1 D;0:>=C @07> 7 N ;>65G:>N C :0@B>==V9 C?0:>2FV.

0B53>@VO 2V4?CA:C.
57 @5F5?B0.

8@>1=8:..
@0:C@5 \$0@<0ALNBV:0;A ", =4VO/Gracure Pharmaceuticals LTD, India.

VAF57=0E>465==O 28@>1=8:0 B0 9>3> 04@5A020465==O 4VO;L=>ABV.
E-1105, @><8A;>20 7>=0, 4V;O=:0 III, EV204V, 0460AB0=, @09>= ;20@, 301019, =4VO/
E-1105, Industrial Area, Phase III, Bhiwadi, Rajasthan, Alwar District, 301019, India.

002=8:..
V;V %5;A:5@5 VMili Healthcare Limited, Great Britain.

VAF57=0E>465==O 7002=8:0.
\$0V@D0:A %0CA 15, \$0;2C4 ;59A, >=4>=, WC1V 6AY, 5;8:0 @8B0=VO/
Fairfax House 15, Fulwood Place, London, WC1V 6AY, Great Britain.