

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

!>;C-□>@B5D
(Solu-Cortef®)

!>;04:
4VNG0 @5G>28=0: hydrocortisone;
1 D;0:>= :>@B87>=C C 283;O4V =0B@VN 3V4@>:>@B87>=C AC:F8=0BC 100 <3;
4>?>28=8: =0B@VN 483V4@>D>AD0B <=>3V4@0B; =0B@VN 3V4@>D>AD0B 1572>4=89.

V:0@AL:0 D>@<0. >@>H>: 4;O @>7G8=C 4;O V=T:FV9.
A=>2=V DV78:>-EVABV: 2V4 1V;>3> 4> <0965 1V;>3> :>;L>@C ;V>DV;V70B.

\$0@<0:>B5@0?52B8G=0 3@C?0. @>ABV ?@5?0@0B8 :>@B8:>AB5@>W4V2 4;O A8AB5<=>3>
70AB>AC20==O. ;N:>:>@B8:>W48. V4@>:>@B87>=. >4 "% H02A B09.

\$0@<0:>;>3VG=V 2;0AB82>ABV.
\$0@<0:>48=0
!>;C->@B5D <0T B0:V 6 A0 9 3V4@>:>@B87>=.
5E0=V7< 4VW
VA;O ?@>=8:=5==O :@V7L ;;VB8==C <5<1@0=C 3;N:>:>@B8:>W48 CB2>@NNBL :>@0<8 2 F8B>?;07
4OBL 4> O4@0, 72O7CNBLAO 7 (E@><0B8=><) V AB8 2:07CT=0 B5, I> 9>3> 5D5:B82=VABL 1V;LH5
>1C<>2;5=0 <>48DV:0FVTN D5@<5=BV2, 0 =5 9>3> 157?>A5@54=L>N 4VTN.
\$0@<0:>:V=5B8:0.
1A>@1FVO
V:>20 :=F5=B@0FVO 2 ?;07AO30TBLAO G5@57 30-60 E28;8= ?VA;O 2=CB@VH=L<O7>2>3>
22545==O.
;O ?V4B@8<0==O A8@>20B:>2>W :=F5=B@0FVW =0 ?>ABV9=> 28A>:> @V2=V =5>1EV4=>
>6=V
46 3>48= @>18B8 2=CB@VH=L>25==V 01> 2=CB@VH=L<O7>2V V=T:FVW.
>7?>4V;
V4@>:>@B87>= =0 4090 % T 72O70=8< 7 1V;;0<8 ?;07<8. V;LH0 9>3> G0AB8=0 72O7CTBLAO 7
3;>1C;V=>< (B@0=A:>@B8=><), B>4V O: <5=H0 7 0;L1C;>3VG=0 0:B82=VABL 287=0G0TBLAO
2V;L=>N, =572O70=>N D@0:FVTN 3>@<=>C, B>4V O: 9>3> 72O70=0 D@0:FVO @575@2 A;C68BL
@575@2>
V>B@0=AD>@<0FVO
>;>2=8< G8=>< 3V4@>:>@B87>= <5B01>;V7CTBLAO 2 ?5GV=FV.
82545==O
2545=0 4>70 <0965 ?>2=VABN 282>48BLAO ?@>BO3< 12 3>48=. V4 22 4> 30 % 2=CB@VH=L>25==>
01> 2=CB@VH=L<O7>2> 22545=>W 4>78 ;V:0@AL:>3> 70A>1C 282>48BLAO 7 A5G5N C <560E 24
3>48=.

;V=VG=V E0@0:B5@8AB8:8.
>:070==O.
CB0=8, ?@8 O:8E 1060=> >B@8<0B8 H284:89 V V=B5=A82=89 5D5:B 2V4 4VW :>@B8:>AB5@>W4V2.
=4>:@8==V @>7;048:
• 5@28==0 01> 2B>@8==0 =54>AB0B=VABL :>@8 =04=8@:>28E 70;>7;
• 3>AB@0 =54>AB0B=VABL :>@8 =04=8@:>28E 70;>7;
• 70AB>AC20==O C ?5@54>?5@0FV9=>4V, C @07V BO6:>W B@02<8 01> 70E2>@N20==O,
?0FVT=B0< 7 =54>AB0B=VABN :>@8 =04=8@:>28E 70;>7 01> C @07V AC<=V2V2 I>4>
@575@2=8E DC=:FV9 :>@8 =04=8@:>28E 70;>7;
• H>:, =5GCB;8289 4> B@048FV9=>W B5@0?VW, :>;8 T 01> ?V4>7@NTBLAO =54>AB0B=VABL
:>@8 =04=8@:>28E 70;>7;
• 2@>465=0 3V?5@?;07VO =04=8@:>28E 70;>7;
• =53=V9=89 B8@5>W48B;

• 3V?5@:0;LFVT2O70=0 7V 7;>O:VA=8<=>2>CB2>@5==O
 >7;048=55=4>:@8==>3> ?>E>465==O
52<0B8G=V 70E2>@N20==O, O: 4>?>@>B:>G0A=>3> 70AB>AC20==O (I>1 4>?><>3B8 ?0FVT=B>2V
 ?5@568B8 3>AB@89 5?V7>4 01> 703>AB@5==O) ?@8 B0:8E 70E2>@N20==OE:
 • 3>AB@89 V ?V43>AB@89 1C@A8B;
 • 3>AB@89 ?>403@8G=89 0@B@8B;
 • 3>AB@89 =5A?5F8DVG=89 B5=4>A8=>2VB;
 • 0=:V;>7CNG89 A?>=48;VB;
 • 5?V:>=48;VB;
 • ?>ABB@02<0B8G=89 >AB5>0@B@8B;
 • ?A>@V0B8G=89 0@B@8B;
 • @52<0B>W4=89 0@B@8B, C B>W B5@0?VW =87L:8<8 4>70<8 ?@5?0@0BC);
 • A8=>2VB ?@8 >AB5>0@B@8BV.
>;035=>78, ?V4 G0A 703>AB@5==O 01> O: ?V4B@8:@5<8E 28?04:0E B0:8E 70E2>@N20=L:
 • 3>AB@89 @52<0B8G=89 :0@48B;
 • A8AB5<=89 45@<0B>78B (?>;V78B);
 • A8AB5<=89 G5@2>=89 2>2G0:.
5@<0B>;>3VG=V 70E2>@N20==O:
 • 1C;L>7=89 35@?5B8D>@<=89 45@<0B8B;
 • 5:AD>;V0B82=89 45@<0B8B;
 • DC=3>W4=89 7;
 • ?CE8@G0B:0;
 • B06:0 @<=0 5@8B5<0 (A8=4@>< !B825=A0-6>=A>=0);
 • B06:0 D>@<0 ?A>@V07C;
 • B06:0 D>@<0 A51>@59=>3> 45@<0B8BC.
:5@3VG=V AB0=8: :>=B@>;L B06:8E 0;5@3VG=8E AB0=V2 01> 0;5@3VG=8E AB0=V2, I>
?@872>4OBL 4> 2B@0B8 ?@0F5740B=>ABV B0 =5 ?V440NBLAO B@048FV9=>@N20==OE:
 • 3>AB@89 =5V=D5:FV9=89 =01@O: 3>@B0=V;
 • 0B>?VG=89 45@<0B8B;
 • 1@>=EV0;L=0 0AB<0;
 • :>=B0:B=89 45@<0B8B;
 • @50:FVW 3V?5@GCB;82>ABV 4> ;V:0@AL:8E ?@5?0@0BV2;
 • A57>==89 01> ?>ABV9=89 0;5@3VG=89 @8=VB;
 • A8@>20B:>20 E2>@>10;
 • B@0=ADC7V9=V @50:FVW B8?C :@>?82 O=:8.
DB0;L<>;>3VG=V 70E2>@N20==O: B06:V 3>AB@V V E@>=VG=V 0;5@3VG=V B0 70?0;L=V ?@>F5A8
 7 C@065==O< >G59, B0:V O:.
 • 0;5@3VG=89 :>=N=:B82VB;
 • 0;5@3VG=V :@09>2V 28@07:8 @>3V2:8;
 • 70?0;5==O ?5@54=L>3> A53<5=B0 >:0;
 • E>@V>@5B8=VB;
 • 48DC7=89 704=V9 C25WB V E>@V>W48B;
 • >G=0 D>@<0 >?5@V7CNG>3> ;8H0N;
 • V@8B B0 V@84>F8:;VB;
 • :5@0B8B;
 • =52@8B 7>@>2>3> =5@20;
 • A8DB0;L
(;C=>2>-.:8H:>2V 70E2>@N20==O, I>1 4>?><>3B8 ?0FVT=B>2V ?5@568B8 :@8B8G=89 ?5@V>4 ?@8
 B0:8E 70E2>@N20==OE:
 • 28@07:>289 :>;VB (A8AB5<=0 B5@0?VO);
 • @53V>=0;L=89 5=B5@8B (A8AB5<=0 B5@0?VO).
5A?V@0B>@=V 70E2>@N20==O:
 • 0A?V@0FV9=89 ?=52<>=VB;
 • 15@8;V>7;

- DC;L 48A520=89 BC15@:C;L>7 ;535=L, ?@8 >4=>G0A=>AC20==V 7 2V4?>2V4=>N ?@>B8BC15@:C;L>7=>N EVB5@0?VTN;
- A8=4@<< 5D;5@0, O:89 =5 ?V440TBLAO ;V:C20==N V=H8<8 70A>10<8;
- A0@:>W4>7.

5<0B>;>3VG=V 70E2>@N20==O:

- =01CB0 (0CB>V
- 2@>465=0 (5@8B@>W4=0) 3V?>?;0AB8G=0 0=5
- 5@8B@>1;0AB>?5=VO (5@8B@>F8B0@=0 0=5
- V4V>?0B8G=0 B@<<1>F8B>?5=VG=0 ?C@?C@0 4>@>A;8E (;8H5 2=CB@VH=L>25==>; 2=CB@VH=L><□O7>25 70AB>AC20==O ?@>B8?>:070=5);
- 2B>@8==0 B@<<1>F8B>?5=VO 4>@>A;8E.

5>?:0AB8G=V 70E2>@N20==O: ?0;V0B82=5 ;V:C20==O B0:8E 70E2>@N20=L:

- 3>AB@89 ;59:>7 4VB59;
- ;59:>78 V ;V<8 4>@>A;8E.

!B0=8, I> AC?@>2>46CNBLAO =01@O:> 4;O V=4C:FVW 4VC@57C 01> @5B5W=C@VW ?@8 =5D@>B8G=>?0B8G=>3> B8?C 01> 2=0A;V4>: G5@2>=>3> 2>2G0:0.

52V4::04=V AB0=8:

- H>:, O:89 @>728=C2AO 2=0A;V4>: =54>AB0B=>ABV :>@8 =04=8@:>28E 70;>7, 01> H>:, =5GCB;8289 4> B@048FV9=>W B5@0?VW, C @07V<<6;82>W =54>AB0B=>ABV :>@8 =04=8@:>28E 70;>7;
- 3>AB@V 0;5@3VG=V AB0=8 (0AB<0B8G=89 AB0BCA, 0=0DV;0:B8G=V @50:FVW, C:CA8 :<0E B>I>), O:V =5 ?@>E>4OBL ?VA;O 70AB>AC20==O 5?V=5D@8=C.

=H5:

- B@8EV=5;L>7 V7 70;CG5==O< =5@2V2 01> :0@40;
- BC15@:C;L>7=89 <5=V=3VB V7 AC10@0E=>W40;L=>N 1;>:04>N 01> 703@>7>N 1;>:048, ?@8 O:>A>2CTBLAO AC 7 2V4?>2V4=>N ?@>B8BC15@:C;L>7=>N EVB5@0?VTN.

@>B8?>:070==O.

- V428I5=0 GCB;82VABL 4> 4VNG>W @5G>28=8 01> 4> 1C4L-O:>W 7 4>?>28=.
- C8AB5<=V 3@81:>2V V=D5:FVW.
- 0FVT=B0<, O:V >B@8@B8:>AB5@>W48 2 VAC?@5A82=8E 4>70E, ?@>B8?>:070=5 70AB>AC20==O 6828E 01> 0B5=C9>20=8E 20:F8= (482. @>74V; «A>1;82>ABV 70AB>AC20==O»).
- □=CB@VH=L><O7>2> :>@B8:>AB5@>W4=V ?@5?0@0B8 ?@>B8?>:070=V ?@8 V4V> <0B8G=V9 B@<<1>F8B>?5=VG=V9 ?C@?C@V.
- @>B8?>:070=> 4;O V=B@0B5:0;L=>3> 22545==O.

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

V:0@AL:V 70A>18, O:V V=4C:CNBL ?5GV=:>2V D5@<5=B8, B0:V O: D5=>10@1VB0;, D5=VB>W= V @8D06CBL 71V;LHC20B8 ;V@5=A :>@B8:>AB5@>W4V2, V ?@8 WE=L>AC20==V <>65 1CB8 =5>1EV4=8< ?V428I5==O 4>78 :>@B8:>AB5@>W4V2, I>1 >B@8<0B8 1060=C 2V4?>2V4L =0 ;V:C20==O. "0:V ;V:0@AL:V 70A>18, O: B@>;50=4>:>=07>;, <>6CBL V=3V1C20B8 <5B01>;V7< :>@B8:>AB5@>W4V2 V, B0:8< G8=><, 7<5=HC20B8 WE=V9 ;V@5=A. ">7C :>@B8:>AB5@>W4V2, 4;O C=8=:5==O @>728B:C :>@B8:>AB5@>W4=>W B>:A8G=>ABV. >@B8:>AB5@>W48 <>6CBL 71V;LHC20B8 ;V@5=A 0A?V@8=C, O:89 70AB>A>2CNBLAO B@820;89 G0A V C 28A>:8E 4>70E. &5 <>65 ?@872>48B8 4> 7=865==O @V2=V2 A0;VF8;0BC 2 A8@>20BFV :@>2V 01> 4> ?V428I5==O @878:C @>728B:C A0;VF8;0B=>W B>:A8G=>ABV ?@8 2V4 @B8:>AB5@>W4V2. A?V@8= A;V4 7 >15@56=VABN 70AB>A>2C20B8 @07< 7 :>@B8:>AB5@>W40 <8 ?0FVT=B0< 7 3V?>B@<<1V=5 ?;82 :>@B8:>AB5@>W4V2 =0 ?5@>@0;L=V 0=B8:>03C;O=B8 7=0G=>N N 20@VNT; 2>=8 <>6CBL O: ?>A;01;N20B8, B0: V ?V4A8;N20B8 WE=N 4VN. ">2>48B8 @53C;O@=89 <=VB>@8=3 ?>:07=8:V2 :>03C;>3@0<8, I>1 ?V4B@803C;O=B=89 5D5:B. >15@56=VABN A;V4 70AB>A>2C20B8 7 ?@5?0@0B0<8, O:V 2?;820NBL =0 @V25=L :0;VN (=0?@8::04 4VC@5B8:0<8). 5 70AB>A>2C20B8 7 0B5@8F8=><. >@B8:>AB5@>W48 <>6CBL A?@8G8=8B8 3V?5@3;V:5A>2C20B8 7 ?@>B84V015B8G=8<8 70A>10<8 ?>B@V1=> 7 >15@56=VABN.

=B81V>B8:8. >2V4><;O;>AO, I> <0:@>;V4=V 0=B81V>B8:8 A?@8G8=O;8 ACBBT25 7=865==O
::V@5=AC :>@B8:>AB5@>W4V2.
?>A?>@8=8. @8>4=>G0A=>AC20==V F8E ?@5?0@0BV2 A?>AB5@V30TBLAO ?V428I5==O
0:B82=>ABV V F8:;>A?>@8=C V :>@B8:>AB5@>W4C. >2V4<;O;>AO B0:>6 ?@> 28?04:8 28=8:=5==O
AC4>
=B8E>;V=5AB5@07=V ?@5?0@0B8. 4=>G0A=5 70AB>AC20==O <>65 ?@8725AB8 4> @>728B:C
BO6:>W A;01:>ABV C E2>@8E 7 AC20==O F8E ?@5?0@0BV2 =5>1EV4=> ?@8?8=8B8 I>=09<5=H5 70
24 3>48=8 4> ?>G0B:C B5@0?VW :>@B8:>AB5@>W40<8.
=B84V015B8G=V 70A>18. A:V;L:8 :>@B8:>AB5@>W48 <>6CBL ?V428I8B8 :>=F5=B@0FVW 3;N:>78 2
:@>2V, <>65 28=8:=CB8 =5>1EV4=VABL C :>@83C20==V 4>78 0=B84V015B8G=8E 70A>1V2.
@>B8BC15@:C;L>7=V 70A>18. >6;825 7=865==O :>=F5=B@0FVW V7>=V0784C 2 ?;072V.
%>;5AB8@0<>65 ?V428IC20B8 ::V@5=A :>@B8:>AB5@>W4V2.
3;NB5 <>65 28::8:0B8 2B@0BC V=4C:>20=>W :>@B8:>AB5@>W40<8 04@5=0;L=>W AC?@5AVW.
!5@F52V 3;V:>7848. 0FVT=B8, I> 70AB>A>2CNBL A5@F52V 3;V:>7848,<0NBL ?V428I5=89 @878:
@>728B:C 0@8B:0;VT
AB@>35=8, 2::NG0NG8 ?5@>@0;L=V :>=B@0F5?B828. AB@>35=8 <>6CBL A?@8G8=8B8 7=865==O
<5B01>;V7@B8:>AB5@>W4V2 C ?5GV=FV, I> ?@872>48BL 4> ?V428I5==O WE 5D5:BC.
(:V@=V ?@>18. >@B8:>AB5@>W48 <>6CBL ?@83=VGC20B8 @50:FVW =0 H:V@=V ?@>18.
0:F8=8. 0FVT=B8, O:V ?5@51C20NBL =0 4>23>B@820;V9 B5@0?VW :>@B8:>AB5@>W40<8, <>6CBL
?@>02;OB8 A;01:> 28@065=C 2V4?>2V4L =0 B>:A>W4=V B0 682V 01> V=0:B82>20=V 20:F8=8 G5@57
?@83=VG5==O 2V4?>2V4V 0=B8BV;.>@B8:>AB5@>W48 <>6CBL B0:>6 ?>B5=FVN20B8 2V4?>2V4L
45O:8E >@30=V7 20=8E 20:F8=0E.
@8 70AB>AC20==V 20:F8= 01> B>:A>W4V2 73V4=> 7 ?;0=< 20:F8=0FVW A;V4 @>73;O=CB8
<>6;82VABL 2V4::0AB8 20:F8=0FVN 4> 7025@H5==O B5@0?VW :>@B8:>AB5@>W40<8.

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

0FVT=B0<, O:V >B@8@B8:>AB5@>W4=C B5@0?VN V ?5@5=>AOBL =5728G=89 AB@5A, 4>, ?V4
G0A V ?VA;O B0:>W AB@5A>2>W A8BC0FVW ?>:070=5 70AB>AC20==O :>@B8:>AB5@>W4V2 C
?V428I5=8E 4>70E 01> :>@B8:>AB5@>W4V2 H284:>W 4VW.
572060NG8 =0 2V4ACB=VABL 4>1@5 :>=B@>;L>20=8E (?>42V9=8E A;V?8E, V7 70AB>AC20==O<
?;0F51>) ::V=VG=8E 4>A;V465=L, @57C;LB0B8, >B@8<0=V =0 5:A?5@8<5=B0;L=8E <>45;OE C
B20@8=, 2:07CNBL =0 B5, I> 70AB>AC20==O :>@B8:>AB5@>W4V2 <>65 1CB8 :>@8A=8< ?@8 35
<>@03VG=>FV, :>;8 AB0=40@B=0 B5@0?VO (=0?@8::04 2V4=>2;5==O >1TW @V48=8) T
=55D5:B82=>N.
>@B8:>AB5@>W48 <>6CBL <0A:C20B8 45O:V >7=0:8 V=D5:FVW, V ?V4 G0A WE=L>3>
70AB>AC20==O <>6CBL 28=8:0B8 =>2V V=D5:FVW. @8 70AB>AC20==V :>@B8:>AB5@>W4V2
@578AB5=B=VABL >@30=V7V=D5:FV9 V 740B=VABL >@30=V70;V7C20B8 V=D5:FVN <>6CBL 1CB8
7=865=8<8.
>728B>: V=D5:FV9 1C4L-O:>W ;>;0;V70FVW, A?@8G8=5=8E 1C4L-O:8<8 ?0B>35=0<8 (C B>2V,
?@>B>7>9=V 01> 35;LAC?@5A82=8<8 70A>10<8, O:V 2?;820NBL =0 ::VB8==C ;0=:C V DC=:FVN
=59B@>DV;V2. "0:V V=D5:FVW <>6CBL 1CB8 ;53:>3> ABC?5=O, 0;5 <>6CBL 1CB8 BO6:>3> ABC?5=O
V V=>4V <0B8 ;5B0;L=89 =0A;V4>.. V 71V;LH5==O< 4>7 :>@B8:>AB5@>W4V2 ?V428ICTBLAO
G0AB>B0 @>728B:C V=D5:FV9=8E CA::04=5=L.
@8 0:B82=>20=> DC;L7V 3V4@>:>@B87>= <>6=0 70AB>A>2C20B8 ;8H5 4;O ;V:C20==O
70E2>@N20==O @07<< 7 2V4?>2V4=>N ?@>B8BC15@:C;L>7=>N AE5<>N ;V:C20==O. /:I> :>;8
70AB>AC20==O :>@B8:>AB5@>W4V2 ?>:070=5 ?0FVT=B0< 7 ;0B5=B=8< BC15@:C;L>7<< 01>
BC15@:C;V=>2>N @50:B82=VABN, =5>1EV4=5 @5B5;L=5 A?>AB5@565==O, >A:V;L:8 70E2>@N20==O
<>65 7=>2C 0:B82C20B8AO. V4 G0A B@820;>W :>@B8:>AB5@>W4=>W B5@0?VW B0:V ?0FVT=B8
?>28==V >B@8?@>DV;0:B8:C.
0FVT=B0<, O:V >B@8@B8:>AB5@>W48 2 VAC?@5A82=8E 4>70E, ?@>B8?>:070=5 70AB>AC20==O
6828E 01> 0B5=C9>20=8E 20:F8=; B0:8< ?0FVT=B0< <>6=0 70AB>A>2C20B8 218BV 01> V=0:B82>20=V
20:F8=8. 4=0: 2V4?>2V4L =0 B0:V 20:F8=8 <>65 1CB8 7=865=>N. 0FVT=B0<, O:V >B@8
@B8:>AB5@>W48 2 =5VAC?@5A82=8E 4>70E, ?>:070=5 ?@>2545==O ?@>F54C@ V
V4@>:>@B87>= <>65 A?@8G8=OB8 ?V428I5==O 0@B5@V0;L=>3> B8A:C, 70B@8;V V 2>48 2
>@30=V7

A;V;L:8 2 ?>>48=>:8E 28?04:0E C ?0FVT=BV2, O:V >B@8@B8:>AB5@>W40<8 ?0@5=B5@0;L=>, @>72820;8AO 0=0DV;0:B>W4=V @50:FVW (=0?@8;:04 1@>=E>A?07<), ?5@54 WE=V< 70AB>AC20==O < A;V4 268B8 2V4?>2V4=8E 70?>1V6=8E 70E>4V2, >A>1;82> B>4V, :>;8 2 0=0<=57V ?0FVT=B0 =0O2=0 0;5@3VO =0 1C4L-O:89 ;V:0@AL:89 70AV1.

572060NG8 =0 B5, I> =5I>402=V 4>A;V465==O =5 ?@>2>48;8AO V7 70AB>AC20==O< 3V4@>:>@B87>=C 01> V=H8E AB5@>W4V2, @57C;LB0B8 4>A;V465=L 70AB>AC20==O <5B8;?@54=V7>;>=C =0B@VN AC:F8=0BC ?@8 A5?B8G=>FV 2:07CNBL =0 B5, I> 2 45O:8E ?V43@C?0E ?0FVT=BV2 28A>:>3> @878:C (B>1B> ?0FVT=BV2 7 ?V428I5==O< @V2=O :@50B8=V=C 1V;LH =V6 2,0 <3/4; 01> 7 2B>@8==8<8 V=D5:FVO<8) <>65 A?>AB5@V30B8AO ?V428I5==O @V2=O A<5@B=>ABV. D5:B 3V4@>:>@B87>=C <>65 1CB8 ?V4A8;5=8< C ?0FVT=BV2 V7 70E2>@N20==O< ?5GV=:8, >A;V;L:8 C =8E 7=0G=> 7<5=H5=V <5B01>;V7< V 282545==O 3V4@>:>@B87>=C.

4VB59, O:V >B@8:>@B8:>W40<8 C ?>4V;5=8E 4>1>28E 4>70E, <>65 A?>AB5@V30B8AO 70B@8ABC. 0AB>AC20==O B0:>W AE5<8 ;V:C20==O ?>28==> >1<56C20B8AL =091V;LH A5@9>7=8<8 ?>:070==O<8. >@B8:>AB5@>W48 A;V4 7 >15@56=VABN 70AB>A>2C20B8 ?0FVT=B0< 7 >G=8< ?@>AB8< 35@?5A> <, O:89 AC?@>2>46CTBLAO @878:< ?5@D>@0FVW @>3V2:8.

0AB>AC20==O :>@B8:>AB5@>W4V2 1C;> ?>2O70=5 7 @>728B:>< F5=B@0;L=>W A5@>7=>W E>@V>?0BVW, I><>65 ?@872>48B8 4> 2V4H0@C20==O AVB:V2:8.

@8 70AB>AC20==V :>@B8:>AB5@>W4V2 <>6CBL 28=8:0B8 ?A8EVG=V @>7;048, O:V 20@VNNBL 2V4 59D>@VW, 157A>==O, 7N, 7A>18AB>ABV 4> O2=8E <0=VD5AB0FV9 ?A8E>7C. "0:>6 :>@B8:>AB5@>W48 <>6CBL A?@8G8=OB8 03@020FVN VA=CNG>W 5>FV9=>W =5AB01V;L=>ABV 01> B5=45=FV9 4> @>728B:C ?A8E>7C.

>2V4><;O;>AO ?@> @>728B:>: 5?V4C@0;L=>3> ;V?><0B>7C C ?0FVT=BV2, ?5@5206=> ?@8 B@820;> AC20==V :>@B8:>AB5@>W4V2 C 28A>:8E 4>70E.

>@B8:>AB5@>W48 A;V4 7 >15@56=VABN 70AB>A>2C20B8 ?@8 =5A?5F8DVG=>2>;VBV, O:I> VA=CT 9<>2V@=VABL @>728B:C ?5@D>@0FVW C @07V =0O2=>ABV 01AF5AC 01> V=H8E ?V>35==8E V=D5:FV9, 0 B0:>6 ?@8 4825@B8:C;VBV, A2V68E :8H:>28E 0=0AB><>70E, 0:B82=V9 01> ;0B5=B=V9 ?5?B8G=V9 28@07FV, =8@:>2V9 =54>AB0B=>ABV, 0@B5@V0;L=V9 3V?5@B5=7VW, >AB5>?>@>7V V @8 70AB>AC20==V 28A>:8E 4>7 :>@B8:>AB5@>W4V2 >?8A0=V 28?04:8 @>728B:C 3>AB@>W ?0BVW, O:0 =091V;LH G0AB> 28=8:0T C ?0FVT=BV2 7 ?>@CH5==O<8 =5@2>2>-<O7>2>W ?5@540GV (7>:@5<0, C ?0FVT=BV2, O:V >B@82>-<□O7>28<8 1;>;:0B>@0<8 (B0:8<8 O: ?0=:C@>=V9). "0:0 3>AB@0 ?0BVO T 35=5@0;V7>20=>N, <>65 70;CG0B8 >G=V V 48E0;L=V <O78 V <>65 ?@872>48B8 4> @>728B:C :204@8?0@57C. >65 A?>AB5@V30B8AO 71V;LH5==O @V2=O :@50B8=:V=078.> =0AB0==O ;V=VG=>3> ?>:@0I5==O 01> >4C60==O ?VA;O ?@8?8=5==O 70AB>AC20==O :>@B8:>AB5@>W4V2 <>65 <8=0B8 2V4 45;V;L:>E B86=V2 4> 45;V;L:>E @>:V2.

C;8 ?>2V4><;5==O ?@> @>728B:>: A0@:><8 0?>HV C ?0FVT=BV2, O:V >B@8@B8:>AB5@>W40<8, ?@>B5 ?@8?8=5==O B5@0?VW <>65 ?@872>48B8 4> WW ;V=VG=>W @5 >2V4><;O;>AL ?@> 28=8=:5==O D5>E@><>F8B><=>3> :@87C, I> <>65 <0B8 ;5B0;L=89 =0A;V4>;, ?VA;O A8AB5<=>3> 70AB>AC20==O :>@B8:>AB5@>W4V2. 0FVT=B0< V7 ?V4>7@N20=>N 01> 28O2;5=>N D5>E@><>F8B><>N A;V4 ?@87=0G0B8 :>@B8:>AB5@>W48 BV;L:8 ?VA;O 2V4?>2V4=>3> >FV=N20==O @878:V2 V :>@8ABV.

7 <5B>N 7<5=H5==O <>6;82>ABV @>728B:C 0B@>DVW H:V@8 C <5=4>20=V 4>78. !;V4 C=8:0B8 V=T:FVW 2 45;LB>?>4V1=89 <O7 G5@57 28A>:89 @878: @>728B:C ?V4H:V@=>W 0B@>DVW. 8A>:V 4>78 A8AB5<=8E :>@B8:>AB5@>W4V2 =5 A;V4 70AB>A>2C20B8 4;O ;V:C20==O ?@8 G5@5?=>- <>7>2V9 B@02.

?C1;V:>20=V 40=V A2V4G0BL ?@> 9<>2V@=89 72O7>: AC20==O< :>@B8:>AB5@>W4V2 B0 @>7@82> < :0@40 ?VA;O =5I>402=> ?5@5=5A5=>3> V=D0@:BC:0@40; B> >65 A?@8G8=8B8 ?@83=VG5==O 3V?>B0;0<-3V?>DV70@=>=-04=8@:>2>W A8AB5<8, @>728B:>: A8=4@>

B>@8==C 04@5=>:>@B8:0;L=C =54>AB0B=VABL, 28;;8:0=C 70AB>AC20==O< ;V:0@AL:>3> 70A>1C, <>6=0 7<5=H8B8 H;OE>< ?>ABC?>2>3> 7=865==O 4>78. 54>AB0B=VABL B0:>3> @>4C <>65 715@V30B8AO ?@>BO3>< 45;V;L:>E O2C AB@5AC ?@>BO3>< FL>3> ?5@V>4C 3>@<=>0;L=0 B5@0?VO <0T 1CB8 2V4=>2;5=0.

@8 >4=>G0A=>AC20==V 7 0B5@8F8=>< 1C;8 28?04:8 @>7H8@5==O 3@0=8FL A5@FO B0 @>728B:C A5@F52>W =54>AB0B=>ABV (482. @>74V; «□70T<>4VO 7 V=H8<8 ;V:0@AL:8<8 70A>10<8 B0 V=HV 2848 270T<>4V9»).

>65 A?@8G8=8B8 703>AB@5==O V=B5@:C@5=B=8E V=D5:FV9, A?@8G8=5=8E *Amoeba, Candida, Cryptococcus, Mycobacterium, Nocardia, Pneumocystis, B0 Toxoplasma.* > ?>G0B:C B5@0?VW
:>@B8:>AB5@>W40<8 @5:><5=4CTBLAO 28::NG8B8 ;0B5=B=89 G8 0:B82=89 0<51V07 C ?0FVT=BV2,
O:V 2V42V4C20;8 B@>?VG=V :@0W=8, 01> C ?0FVT=BV2 V7 4V0@5TN =57OA>20=>3> '5=57C.
5 70AB>A>2C20B8 ?@8 F5@51@0;L=V9 <0;O@VW, >A:V;L:8 =5<0T =0 AL>3>4=V 4>:07V2 :>@8ABV
2V4 70AB>AC20==O :>@B8:>AB5@>W4V2 ?@8 FL>
VB@O=0 2VA?0 B0 :V@: <>6CBL 1CB8 A5@9>7=V 01> =02VBL A<5@B5;L=V CA:;04=5==O C
4>@>A;8E B0 4VB59. 0FVT=BV2, O:V =5 ?5@5=5A;8 FV E2>@>18 2 <8=C;> 70E8AB8B8 2V4 @878:C
@>7?>2AN465==O =0 =8E F8E 70E2>@N20=L.
0AB>AC20==O :>@B8:>AB5@>W4V2 <>65 A?@8G8=8B8 704=N AC1:0?AC;O@=C :0B0@0:BC, 3;0C:>
H:>465==O 7>@>28E =5@2V2, <>65 A?@8OB8 @>728B:C 2B>@8==8E >G=8E V=D5:FV9,
A?@8G8=5=8E 10:B5@VO<8, 3@810<8 G8 2V@CA0<8.
0AB>A>2C20B8 7 >A>1;82>N >15@56=VABN ?0FVT=B0< 7 2V4><8< 01> ?V4>7@N20=8< C@065==O<
=0 *Strongyloides* # B0:8E ?0FVT=BV2 VAC?@5AVO<>65 ?@8725AB8 4> 3V?5@V=D5:FVW B0
?>H8@5==O :, I> <>65 ?@825AB8 4> B06:>3> 5=B5@>:>;VBC B0 ;5B0;L=>W 3@0<=530B82=>W
A5?B8F5
>15@56=VABN A;V4 70AB>A>2C20B8 ?0FVT=B0< V7 70ABV9=>N A5@F52>N =54>AB0B=VABN,
3V?5@B>=VTN.
0FVT=B0< 7 3V?>B8@5>7>< 4>7C :>@B8:>AB5@>W4V2 =5>1EV4=> :>@83C20B8.
?0FVT=BV2 7 F8@>7>< VA=CT ?>A8;5=89 5D5:B 70 @0EC=>: 7=865==O<5B01>;V7
@B8:>AB5@>W4V2.
@8 B5@0?VW :>@B8:>AB5@>W40<8 <>6;825 ?V428I5==O 2=CB@VH=L>>G=>3> B8A:C, I>
?>B@51CT 9>3> :>=B@>;N, >A>1;82> C @07V B@820;>W B5@0?VW.
&59 ;V:0@AL:89 70AV1

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

0AB>AC20==O ?V4 G0A 203VB=>ABV

>A;V465==O =0 B20@8=0E ?>:070;8, I> :>@B8:>AB5@>W48, C @07V WE=L>3> 70AB>AC20==O
203VB=V9 C 28A>:8E 4>70E, <>6CBL A?@8G8=OB8 2048 @>728B:C ?;>40. 45:20B=8E 4>A;V465=L
2?;82C =0 @5?@>4C:B82=C DC=:FVN ;N48=8 =5 ?@>2>48;>AO. ">AC20==O FL>3> ;V:0@AL:>3>
70A>1C ?V4 G0A 203VB=>ABV 01> 6V=:0< O:V 1060NBL 70203VB=VB8, ?>B@51CT @5B5;L=>3>
7206C20==O :>@8ABV 2V4 9>3> 70AB>AC20==O ?>@V2=O=> 7 ?>B5=FV9=8<8 @878:0<8 4;O
203VB=>W V ?;>40. A:V;L:8 4>:078 157?5:8 70AB>AC20==O ;N48=V ?V4 G0A 203VB=>ABV T=5?@<8
<8, 3V4@>:>@B87>= A;V4 70AB>A>2C20B8 ?V4 G0A 203VB=>ABV, ;8H5 :>;8 :>@8ABL 2V4
B5@0?VW ?5@52060T ?>2O70=V 7 =5N @878:8 4;O ?;>40.

>@B8:>AB5@>W48 ;53:> ?@>E>4OBL :@V7L ?;0F5=B0@=89 10@T@. VB59, =0@>465=8E 6V=:0<8,
O:V >B@878 :>@B8:>AB5@>W4V2 ?V4 G0A 203VB=>ABV, A;V4 @5B5;L=> >1AB56C20B8 I>4>
2V4ACB=>ABV >7=0: =54>AB0B=>ABV :>@8 =04=8@:>28E 70;>7.

0AB>AC20==O ?V4 G0A 3>4C20==O 3@C44N

>@B8:>AB5@>W48 284V;ONBLAO 2 3@C4=5 <>;>: V4@>:>@B87>= A;V4 70AB>A>2C20B8 ?V4 G0A
3>4C20==O 3@C44N, ;8H5 :>;8 :>@8ABL 2V4 B5@0?VW ?5@52060T ?>2O70=V 7 =5N @878:8 4;O
48B8=8.

5?@>4C:B82=0 DC=:FVO

4>A;V465==OE =0 B20@8=0E 1C;> 28O2;5=> =530B82=89 2?;82 :>@B8:>AB5@>W4V2 =0
@5?@>4C:B82=C DC=:FVN.

***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.***

?;82 :>@B8:>AB5@>W4V2 =0 740B=VABL :5@C20B8 B@0=A?>@B=8<8 70A>10<8 01>
28:>@8AB>2C20B8 V=HV <5E0=V7<8 =5 >FV=N202AO. VA;O ;V:C20==O :>@B8:>AB5@>W40<8
<>6;8289 @>728B>: B0:8E =51060=8E 5D5:BV2, O: A8=>?5, 25@B83> V AC4<8. 0 =002=>ABV
28I573040=8E 5D5:BV2 ?0FVT=B0< =5 A;V4 :5@C20B8 B@0=A?>@B=8<8 70A>10<8 01> ?@0FN20B8 7
V=H8<8 <5E0=V7<0<8.

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

(;OE 22545==O: 4;O 2=CB@VH=L>25==>3> (1>;NA=>, :@0?:8==>) 01> 2=CB@VH=L< O7>2>3>
70AB>AC20==O.
@5?0@0B8 4;O ?0@5=B5@0;L=>3> 22545==O A;V4 ?5@52V@OB8 2V7C0;L=> I>4> 7;L>@C @>7G8=C
01> ?>O28 G0AB>: C ?@83>B>20=>7G8=V C 2AVE 28?04:0E, :>;8 @>7G8= V C?0:>2:0 40NBL 7<3C F5
7@>18B8.
;O 2=CB@VH=L>25==>W 01> 2=CB@VH=L><O7>2>W V=T:FVW?@83>BC9B5 @>7G8=, 4>40NG8 C
D;0:>= (4>B@8NaCl 4;O V=T:FV9. # @07V 2=CB@VH=L>25==>W 01> 2=CB@VH=L<O7>2>W
V=T:FVW ?>40;LH5 @>72545==O =5 ?>B@V1=5.
;O 2=CB@VH=L>25==>W V=DC7VW @>7G8=, ?@83>B>20=89 O: >?8A0=> 28I5, <>6=0 70 ?>B@518
@>725AB8 5 % 2>4=8< @>7G8=< 45:AB@>78 (01> V7>B>=VG=8< @>7G8=< E;>@84C =0B@VN, 01>
5 % @>7G8=< 45:AB@>78 2 V7>B>=VG=>7G8=V E;>@84C =0B@VN, O:I> C ?0FVT=B0 =5<0T 70B@8
@30=V77G8=, O:89 1V>;>3VG=>W B>G:8 7>@C ?@83>B>20=89 @>7G8= 4;O V=DC7VW A;V4
70AB>A>2C20B8 =5309=>.
@07V :>;8 1060=> 22>48B8 =525;8:89 >1T< @V48=8, 3V4@>:>@B87>=C =0B@VN AC:F8=0BC,
5:2V20;5=B=89 100-3000 <3 3V4@>:>@B87>=C, <>6=0 @>725AB8 4> 50 <; 28I573040=8<8 @>7G8==8:0
<8. B@8<0=89 @>7G8= T AB01V;L=8< 2?@>4>26 I>=09<5=H 4 3>48=.
;O ?5@28==>W =52V4;:04=>W 4>?<>38 ?5@52030 =040TBLAO 70AB>AC20==N H;OE<<
2=CB@VH=L>25==>W V=T:FVW. VA;O ?@>2545==O ?5@28==>W =52V4;:04=>W 4>?<>38 @5:>
<5=4CTBLAO 70AB>A>2C20B8 V=T:FV9=V 70A>18 1V;LH B@820;>W 4VW 01> ?5@>@0;L=V 70A>18.
V:C20==O A;V4 ?>G8=0B8 7 2=CB@VH=L>25==>3> 22545==O 70A>1C 2?@>4>26 ?5@V>4C 2V4 30
A5:C=4 4> 10 E28;8= (=0?@8::04, ?>G0B:>25 22545==O 3V4@>:>@B87>=C =0B@VN AC:F8=0BC C 4>7V,
5:2V20;5=B=V9 100 <3 3V4@>:>@B87>=C, 01> 4> 500 <3 V 1V;LH5). 8A>:>4>7>2C
:>@B8:>AB5@>W4=C B5@0?VN ?>B@V1=> ?@>2>48B8 4> AB01V;V70FVW AB0=C ?0FVT=B0
70728G09 =5 4>2H5 =V6 48-72 3>48=8. E>G0 =51060=V 5D5:B8 28A>:>N N ?>2O70=V 7 70AB>AC20==O
< 28A>:8E 4>7, C ?>>48=>:8E 28?04:0E ?5?B8G=0 28@07:0 B0:>6 <>65 28=8:0B8 ?V4 G0A
:>@>B:>G0A=>W B5@0?VW :>@B8:>AB5@>W40<8. ">
=5>1EV4=>ABV @07V ?@>2545==O B5@0?VW 28A>:8<8 4>70<8 3V4@>:>@B87>=C 2?@>4>26
?5@V>4C 1V;LH =V6 48-72 3>48=8 <>65 @>72820B8AO 3V?5@=0B@VT:>@B87>=C =0B@VN
AC:F8=0B :>@B8:>AB5@>W4=8< 70A>1><, B0:8<, I> @30=V7
>G0B:>20 4>70 3V4@>:>@B87>=C =0B@VN AC:F8=0BC, 5:2V20;5=B=C 3V4@>:>@B87>=C,
AB0=>28BL 2V4 100 <3 4> 500 <3 (01> 1V;LH5) 70;56=> 2V4 B06:>ABV AB0=C.
0AB>AC20==O B0:>W 4>78 <>6=0 ?>2B>@N20B8 7 V=B5@20;0<8 2, 4 01> 6 3>48=, I> 287=0G0TBLAO
2V4?>2V44N ?0FVT=B0 =0 ;V:C20==O V 9>3> ;V=VG=8< AB0=>
0FVT=B8, O:V ?5@5=5A;8 B06:89 AB@5A ?VA;O ?@>2545==O :>@B8:>AB5@>W4=>W B5@0?VW,
?>28==V ?V4;O30B8 @5B5;L=>AB5@565==N I>4> >7=0: V A8AB0B=>ABV :>@8 =04=8@:>28E 70;>7.
"5@0?VO :>@B8:>AB5@>W40<8 70AB>A>2CTBLAO O: 4>?>
?0FVT=BV2 V7 70E2>@N20==O< ?5GV=:8 5D5:B <>65 1CB8 ?V4A8;5=8< (482. @>74V; «A>1;82>ABV
70AB>AC20==O») V 4;O B0:8E ?0FVT=BV2 <>6;825 7<5=H5==O 4>78.

VB8.

VBO<, C B.G. =5<>2;OB0<, 4>7C ;V:0@AL:>3> 70A>1C <>6=0 7<5=H8B8, >4=0: ?@8 287=0G5==V 4>78
A;V4 <0T :5@C20B8AO 1V;LH>N N B06:VABN AB0=C V 2V4?>2V44N ?0FVT=B0 =0 ;V:C20==O, 0 =5
9>3> 2V:< 01> <0A>N BV;0. >1>20 4>70 ?>28==0 AB0=>28B8 =5<5=H =V6 25 <3.

5@54>7C20==O.

;V=VG=>3> A8=4@>7C20==O 3V4@>:>@B87>=>< =0B@VN AC:F8=0B< =5 VA=CT.
V4@>:>@B87>= 282>48BLAO H;OE< 4V0;V7C.

>1VG=V @50:FVW.

02545=V =86G5 ?>1VG=V @50:FVW T B8?>28<8 4;O 2AVE A8AB5<=8E :>@B8:>AB5@>W4V2. E=T
2::NG5==O 4> FL>3> ?5@5;V:C =5 >1>2O7:>2> >7=0G0T, I> :>=:@5B=5 O28I5 A?>AB5@V30;>AO ?@8
70AB>AC20==V FVTW :>=:@5B=>W ;V:0@AL:>W D>@<8.
=D>@<0FVW I>4> G0AB>B8 28=8=:5==O ?>1VG=8E @50:FV9 =5<0T.
>A;V465==O: ?VA;O ;V:C20==O :>@B8:>AB5@>W40<8 A?>AB5@V30;>AO ?V428I5==O @V2=O
0;0=V=B@0=A0W D>AD0B078.

0728G09 FV 7

>7;048 7 I>:C A5@F52>-AC48==>W A8AB5<8: 70ABV9=0 A5@F520 =54>AB0B=VABL C
A?@89=OB;828E ?0FVT=BV2, 0@B5@V0;L=0 3V?5@B5=7VO, 1@048:0@4VO, 7C?8=:0 A5@FO,
?>@CH5==O @8B7H8@5==O 3@0=8FL A5@FO, AC48==89 :>;0?A, 68@>20 5<1>;VO,
3V?5@B@>DVG=0 :0@4V>?0BVO, @>7@82 :0@40 ?VA;O =5I>402=> ?5@5=5A5=>3> V=D0@:BC
:0@40, =01@O: ;535=V2, =5?@8B><=VABL, B0EV:0@4VO, B@<1>5<1>;VW, B@<1>D;51VB,
20A:C;VB.
5@<0B>;>3VG=V @>7;048: 0:=5, 0;5@3VG=89 45@<0B8B, @50:FVW C ?>;N20==O, V=D5:FVW C
52@>;>3VG=V @>7;048: ?V428I5==O 2=CB@VH=L>G5@5?=>3> B8A:C, 4>1@>O:VA=0
2=CB@VH=L>G5@5?=0 3V?5@B5=7VO, AC4<=V =0?048, 5?V4C@0;L=89 ;V?<0B>7, 70?0
<>@>G5==O.
>7;048 7 I>:C >@30=V2 7>@C: 704=V AC1:0?AC;O@=V :0B0@0:B8, ?V428I5==O
2=CB@VH=L>>G=>3> B8A:C, F5=B@0;L=0 A5@>7=0 E>@V>?0BVO, 5:7>DB0;L<, 3;0C:<0, 704=O
AC1:0?AC;O@=0 :0B0@0:B0, @V4:VA=V 28?04:8 A;V?>B8 0A>FV9>20=V V7 V=T:FVG<8 C
?5@8>;C;O@=C 7>=C.
>@CH5==O 7 I>:C 48E0;L=>W A8AB5<8, >@30=V2 3@C4=>W :;VB:8 B0 A5@54>ABV==O: C @07V
O:I> 4;O ?@83>BC20==O 4> 28:>@8AB0==O 70AB>A>2CNBL 15=78;>289 A?8@B, A;V4 27OB8 4>
C2038, I> 2V= <>65 A?@8G8=8B8 @>728B>; :5B0;L=>3> A8=4@>=>H5=8E 4VB59.
(;C=:>2>-:8H:>2V @>7;048: @>728B>: ?5?B8G=>W 28@07:8 7 <>6;82>N ?5@D>@0FVTN V
:@>2>B5G5N, H;C=:>20 :@>2>B5G0, ?0=:@50B8B, 57>D03VB, ?5@D>@0FVO :8H5G=8:C, 74CBBO
682>B0, 48ADC=:FVO :8H5G=8:C/A5G>2>3> <530;VO, ?V428I5==O 0?5B8BC, =C4>B0.
>7;048 7 I>:C A5G>284V;L=>W A8AB5<8: 70B@8:0;VT7, 71V;LH5==O 5:A:@5FVW :0;LFVN.
:C H:V@8 B0 ?V4H:V@=>W :;VB:>28=8: 70B@8T==O @0=, ?5B5EVO V 5:EV<>7, B>=:0 A;01:0 H:V@0;
C ?0FVT=BV2, O:V >B@8@B8:>AB5@>W4=C B5@0?VN, ?>2V4<;O;>AO ?@> @>728B>: A0@:<8
0?>HV.
>7;048 7 I>:C A8AB5<8 :@>2V B0 ;VW A8AB5<8: ;59:>F8B>7.
>@CH5==O 7 I>:C >?>@=>-@CE>2>W A8AB5<8 B0 A?>;CG=>W B:0=8=8: :>@B8:>AB5@>W4=0
?0BVO, 0@B@>?0BVO, 2B@0B0 <O7>2>W <0A8, <O7>20 A;01:VABL, >AB5>?>@>7, ?0B>;>3VG=V
?5@5;><8, :><8 E@51B0, 0A5?B8G=89 =5:@>7, @>7@82 ACE>68;;O, 7>:@5<0 0EV;;>2>3> ACE>68;;O.
=4>:@8==V @>7;048: =5@53C;O@=89 <5=AB@C0;L=89 F8;;, @>728B>: :CH8=3>W4=>3> AB0=C,
3;N:>7C@VO, 3V@ACB87<, 3V?5@B@8E>7, ?@83=VG5==O A8AB5<8 3V?>DV7 - =04=8@:>2V 70;>78,
7=865==O B>;5@0=B=>ABV 4> 2C3;52>4V2, <0=VD5AB0FVO ;0B5=B=>3> FC:@>2>3> 4V015BC,
71V;LH5==O ?>B@518 2 V=AC;V=V 01> ?5@>@0;L=8E ?@>B84V015B8G=8E 70A>10E ?@8 FC:@>2>
ABC C 4VB59.
>7;048 7 I>:C <5B01>;V7 =530B82=89 07>B8AB89 10;0=A 2=0A;V4>: :0B01>;V7
>@CH5==O 7 I>:C VW A8AB5<8: <0A:C20==O V=D5:FV9, 0:B820FVO ;0B5=B=8E V=D5:FV9, C B>
2B>@=0 0:B820FVO BC15@:C;L>7C, >?>@BC=VAB8G=V V=D5:FVW, A?@8G8=5=V 1C4L-O:88
?0B>35=0<8, 1C4L-O:>W ;>;0;V70FVW 2V4 ;53:8E 4> ;5B0;L=8E, @50:FVW 3V?5@GCB;82>ABV, C B>
W4=V @50:FVW (=0?@8;;04 1@>=E>A?0?<, 0=3V>=52@>B8G=89 =01@O:; :@>?82O=:0, ><0==V
H:V@=V @50:FVW).
A8EVG=V @>7;048: 59D>@VO, 157A>==O, 7N, 7A>18AB>ABV, 45?@5AVO, 3>;>2=89 1V;L, =52@8B8,
=52@>?0BVW, ?0@5AB57VW, @>7;048 ?A8EV:8; 703>AB@5==O VA=CNG>W 5>FV9=>W
=5AB01V;L=>ABV 01> B5=45=FV9 4> @>728B:C ?A8E>7C. @0E=>W48B, <5=V=3VB, ?0@0?0@57
/?0@0?;53VO, A5=A>@=V @>7;048 7O2;O;8AO ?VA;O V=B@0B5:0;L=>3> 70AB>AC20==O.
=HV @>7;048: 0=><0;L=V 68@>2V 2V4;;045==O, 7=865==O @578AB5=B=>ABV 4> V=D5:FV9, 38:02:0,
?V428I5==O 01> 7=865==O @CE;82>ABV B0 :V;L:>ABV A?5@<0B>7>W4V2, =574C60==O, 71V;LH5==O
<0A8 BV;0.
2VBC20==O ?@> ?V4>7@N20=V ?>1VG=V @50:FVW
2VBC20==O ?@> ?V4>7@N20=V ?>1VG=V @50:FVW ?VA;O@5TAB@0FVW ;V:0@AL:>3> 70A>1C <0T
206;825 7=0G5==O. &5 4>72>;OT 74V9A=N20B8 157?5@5@2=89 <=>VB>@8=3 A?V22V4=>H5==O
@8ABN V @878:0<8, ?>2O70=8<8 V7 70AB>AC20==O<;V:0@AL:>3> 70A>1C. 548G=8E ?@0FV2=8:V2
?@>AOBL 72VBC20B8 ?@> 1C4L-O:V ?V4>7@N20=V ?>1VG=V @50:FVW 2V4?>2V4=> 4>
@53V>=0;L=8E 28<>3.

"5@ABV.

5 @>:V2.

#<>28 715@V30==O.
15@V30B8 ?@8 B5ABC?=>

5AC
&59 ;V:0@AL:89 70AV1 =5<0T 1CB8 7

#?0:>2:0.
>@>H>: C D;0:>=V. > 1 D;0:>=C 2 :0@B>==V9 :>@>1FV 01> ?> 25 D;0:>=V2 157 2B>@8==>W C?0:>2:8
2 ?V44>=V 4;O B@0=A?>@BC20==O.

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

8@>1=8:.
D0975@ 5=ND5:GC@8=3 5;L3VO .

VAf57=0E>465==O 28@>1=8:0 B0 9>3> 04@5A020465==O 9>3> 4VO;L=>ABV.
59:A253 12, CC@A, -2870, 5;L3VO.