

!" #&/
4;O <548G=>3> 70AB>AC20==O ?@5?0@0BC

, " !"
(VALTRESX")

!;:04:

4VNG0 @5G>28=0: 1 B01;5B:0

4>?>28=8: F5;N;>70 :@8AB0;VG=0, :@>A?>2V4>=, ?>2V4>=, <03=VN AB50@0B, :@5<=VN 4V>:A84
:>;>W4=89 1572>4=89, :0@=0C1AL:89 2VA:, :>=F5=B@0B 1V;>3> 10@2=8:0 (YS-1-18043): 3V?@>5;>70,
B8B0=C 4V>:A84 (171), ?>;V5B8;5=3;V;>;L 400, ?>;VA>@10B 80.

V:0@AL:0 D>@<0. "01;5B:8, 2:@8BV >1>;>=:>N.

\$0@<0:>B5@0?52B8G=0 3@C?0. @>B82V@CA=V ?@5?0@0B8 ?@O<>W 4VW. >4 "I J05A B11.

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

>:070==O.

V:C20==O >?5@V7C20;L=>3> 35@?5AC (herpes zoster).

V:C20==O V=D5:FV9 H:V@8 B0 A;87>28E >1>;>=:, A?@8G8=5=8E 2V@CA< ?@>AB>3> 35@?5AC,
2;:NG0NG8 ?5@28==89 B0 @5F8482=89 35=VB0;L=89 35@?5A.

V:C20==O ;01V0;L=>3> 35@?5AC (3C1=>W ;8E<0=8).

@525=B82=5 ;V:C20==O (AC?@5AVO) @5F8482V2 V=D5:FV9 H:V@8 B0 A;87>28E >1>;>=:,

A?@8G8=5=8E 2V@CA< ?@>AB>3> 35@?5AC, 2;:NG0NG8 35=VB0;L=89 35@?5A.

<5=H5==O ?5@540GV 2V@CAC 35=VB0;L=>3> 35@?5AC 74>@>2>AC20==V 0;LB@5:AC C O:>ABV
AC?@5A82=>W B5@0?VW C :<1V=0FVW 7 157?5G=8< A5:A>

@>DV;0:B8:0 F8B<530;>2V@CA=>W V=D5:FVW B0 70E2>@N20==O ?VA;O B@0=A?;0=B0FVW

>@30=V2.

@>B8?>:070==O.

0;LB@5:A ?@>B8?>:070=89 E2>@8< 7 ?V428I5=>N GCB;82VABN 4> 20;0F8;>2V@C, 0F8;>2V@C 01>
4> 1C4L-O:>3> :>=5=B0 ?@5?0@0BC.

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

V:C20==O >?5@V7C20;L=>3> 35@?5AC: 4>@>A;8< ?@87=0G0B8 ?> 1000 <3 (2 B01;5B:8) ?@5?0@0BC
3 @078 =0 4>1C, ?@>BO3>< 7 4=V2.

V:C20==O V=D5:FV9, A?@8G8=5=8E 2V@CA< ?@>AB>3> 35@?5AC

%2>@V 7 =>@<0;L=8< V< (4>@>A;V): 500 <3 (1 B01;5B:0) ?@5?0@0BC 2 @078 =0 4>1C.

;O @5F8482=8E 28?04:V2 ;V:C20==O <0T B@820B8 3 01> 5 4=V2. @8 ?5@28==>4V 01> >4@07C 6 ?VA;O
?>O28 ?5@H8E A8@N20==O.

/: 0;LB5@=0B820, 4;O ;V:C20==O ;01V0;L=>3> 35@?5AC (3C1=>W ;8E<0=8) 5D5:B82=>N 4>7>N

0;LB@5:AC T 2000 <3 (4 B01;5B:8) 2 @078 =0 4>1C ?@>BO3>< 1 4=O. @C3C 4>7C A;V4 70AB>AC20B8
?@81;87=> G5@57 12 3>48=(=5 @0=VH5 =V6 G5@57 6 3>48=) ?VA;O ?5@H>W 4>78. @8 B0:>7C20==O

B5@3> 35@?5AC (2V4GCBBO ?>I8?C20==O, A25@1V6 01> ?5GV==O C 4V;O=FV 3C1).

@525=B82=5 ;V:C20==O (AC?@5AVO) @5F8482V2 V=D5:FV9, A?@8G8=5=8E 2V@CA< ?@>AB>3>
35@?5AC:

- E2>@8< 7 =>@<0;L=8< V< (4>@>A;V) ?@87=0G0B8 500 <3 (1B01;5B:0) ?@5?0@0BC 1 @07 =0
4>1C;

- E2>@8< 7 V45DVF8B>< (4>@>A;V) ?@87=0G0B8 4>7C 500 <3 (1 B01;5B:0) 2 @078 =0 4>1C.

<5=H5==O ?5@540GV 2V@CAC 35=VB0;L=>3> 35@?5AC.

>@>A;8< 35B5@>A5:AC0;0< 7 =>@<0;L=8< V<, O:V <0NBL 9 01> <5=H5 703>AB@5=L =0 @V.;

0;LB@5:A ?@87=0G0B8 V=DV:>20=>7V 500 <3 1 @07 =0 4>1C.

0=8E ?@> 7<5=H5==O ?5@540GV 2V@CAC 35=VB0;L=>3> 35@?5AC 2 V=H8E ?>?C;OFVOE E2>@8E
=5<0T.

@>DV;0:B8:0 F8B><530;>2V@CA=>W V=D5:FVW B0 E2>@>18.

>@>A;V B0 4VB8 2V:< 2V4 12 @>:V2: 0;LB@5:A ?@87=0G0B8 C 4>7V 2000 <3 (4 B01;5B:8) 4 @078 =0
 4>1C, O:><30 @0=VH5 ?VA;O B@0=A?;0=B0FVW. @8 =8@:>2V9 =54>AB0B=>ABV 4>78 7
 <5=HCNBLAO (482. «>7C20==O ?@8 ?>@CH5=V9 DC=:FVW =8@>:»)."@820;VABL ;V:C20==O
 AB0=>28BL 70728G09 90 4=V2, 0;5 <65 1CB8 ?@>4>265=0 4;O ?0FVT=BV2 7 28A>:8< ABC?5=5<
 @878:C.

>7C20==O ?@8 ?>@CH5=V9 DC=:FVW =8@>:.

5>1EV4=> >15@56=> ?@87=0G0B8 20;0F8;:>2V@ E2>@8< 7 ?>@CH5==O< DC=:FVW =8@>:.

1>2O7:>2> A;V4 ?V4B@8@30=V7

568< 4>7C20==O 70;568BL 2V4 ;;V@5=AC :@50B8=V=C B0 ?>:070=L B0 =02545=89 C B01;8FV.

"5@0?52B8G=5 ?>:070==O	;V@5=A :@50B8=V=C, <:/E2	>70 0;LB@5:AC
<i>Herpes zoster</i> (;V:C20==O) 4>@>A;8E E2>@8E 7 =>@ <0;L=8< V< B0 E2>@8E 7 V 45DVF8B><	50 V 1V;LH5 30-49 10-29 <5=H5 10	13 3 @078 =0 4>1C 1 3 2 @078 =0 4>1C 1 3 1 @07 =0 4>1C 500 <3 1 @07 =0 4>1C
<i>Herpes simplex</i> (;V:C20==O) 4>@>A;V E2>@V 7 =>@ <0;L=8< V<	30 V 1V;LH5 <5=H5 30	500 <3 2 @078 =0 4>1C 500 <3 1 @07 =0 4>1C
<i>Herpes labialis</i> (;V:C20==O) 4>@>A;V E2>@V 7 =>@ <0;L=8< V<	50 V 1V;LH5 30-49 10-29 <5=H5 10	2 3 2 @078 =0 4>1C 1 3 2 @078 =0 4>1C 500 <3 2 @078 =0 4>1C 500 <3 1 @07
<i>Herpes simplex</i> (70?>1V30==O)		
4>@>A;V E2>@V 7 =>@ <0;L=8< V<	30 V 1V;LH5 <5=H5 30	500 <3 1 @07 =0 4>1C 250* <3 1 @07 =0 4>1C
4>@>A;V E2>@V 7 V 45DVF8B><	30 V 1V;LH5 <5=H5 30	500 <3 2 @078 =0 4>1C 500 <3 1 @07 =0 4>1C
@>DV;0:B8:0 F8B> <530;>2V@CA=>W V=D5:FVW	75 V 1V;LH5 50-75 25-50 10 -25 5=H5 10 01> 4V0;V7	2 3 4 @078 =0 4>1C 1,5 3 4 @078 =0 4>1C 1,5 3 3 @078 =0 4>1C 1,5 3 2 @078 =0 4>1C 1,5 3 1 @07 =0 4>1C

*70AB>A>2C20B8 ?@8 =0O2=>ABV B01;5B>: ?@5?0@0BC C 4>7V 250 <3.

0FVT=B0<, O:V 7=0E>4OBLAO =0 V=B5@

;V@5=A :@50B8=V=C =5>1EV4=> ?>ABV9=> :>=B@>;N20B8, >A>1;82> C ?5@V>48, :>;8 DC=:FVO
 =8@>: <65 H284:> 74@07C ?VA;O B@0=A?;0=B0FVW. V4?>2V4=> A;V4 7C 0;LB@5:AC.

>7C20==O ?@8 ?>@CH5=V9 DC=:FVW ?5GV=:8

7C E2>@8< 7 ;53:8< 01> ?>7C20==O, >4=0: ;;V=VG=89 4>A2V4 >1<565=89.

@> 70AB>AC20==O 28I8E 4>7 (4000 <3 V 1V;LH5) =0 4>1C 482. @>74V; «A>1;82>ABV

70AB>AC20==O».

0FVT=B8 ;VB=L>3> 2V:C

>70 0;LB@5:AC ?>B@51CT :>@53C20==O, I>1 C=8:=CB8 <6;828E ?>@CH5=L DC=:FVW =8@>: (482.

«>7C20==O ?@8 ?>@CH5=V9 DC=:FVW =8@>:»).

5>1EV4=> ?V4B@8@30=V7

>1VG=V @50:FVW.

09?>H8@5=VH8<8 ?>1VG=8<8 4VO<8, 70 40=8<8 ;;V=VG=8E 4>A;V465=L, 1C;8 3>;>2=89 1V;L B0

=C4>B0. !5@54 1V;LH A5@9>7=8E ?>1VG=8E 4V9 1C;8 ?>2V4<;5==O ?@> B@><1>B8G=C B@>

<1>F8B>?5=VG=C ?C@?C@C/35<;VB8G=89 C@5<, 3>AB@C =8@:>2C =54>AB0B=VABL B0

=52@>;>3VG=V ?>@CH5==O.

>1VG=V 4VW, 2V4<>ABV ?@> O:V =02545=V =86G5, ;;0A8DV:>20=V 70 >@30=0<8 V A8AB5<0<8 B0

70 G0AB>B>N WW 28=8:=5==O. 0 G0AB>B>N 28=8:=5==O @>7?>4V;5=V =0 B0:V :0B53>@VW:

4C65 G0AB> (≥1/10), G0AB> (≥1/100 B0 <1/10), =5G0AB> (≥1/1000 B0 <1/100), @V4:> (≥1/10000 B0 <1/1000), 4C65 @V4:> (<1/10000).

0 40=8<8 ::V=VG=8E 4>A;V465=L

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

'0AB>: 3>;>2=89 1V;L.

I>:C B@02=>3> B@0:BC

'0AB>: =C4>B0.

0 40=8<8 ?>AB;VF5=7V9=>3> =03;O4C

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

C65 @V4:>: ;59:>?5=VO, B@><1>F8B>?5=VO.

59:>?5=VO 3>;>2=8< G8=>< A?>AB5@V30TBLAO C E2>@8E 7 V45DVF8B>

I>:C VW A8AB5<8

C65 @V4:>: 0=0DV;0:AVO.

I>:C =5@2>2>W A8AB5<8 B0 ?A8EVG=V @>7;048

V4:>: 70?0<>@>G5==O, A?;CB0=VABL A2V4<>ABV, 30;NF8=0FVW, 7=865==O @>7C<>28E 74V1=>AB59.

C65 @V4:>: 71C465==O, B@5<>@, 0B0:AVO, 4870@B@VO, ?A8E>B8G=V A8-8, :=>2C;LAVW, 5=F5D0;>?0BVO, :=<0.

8I5=02545=V A8<8 T C 1V;LH>ABV 28?04:V2 >1>@>B=8<8 V A?>AB5@V30NBLAO 3>;>2=8< G8=>< C E2>@8E 7 =8@:>2>N =54>AB0B=VABN 01> 7 V=H8<8 D0:B>@0<8 AE8;L=>ABV (482. @>74V;

«A>1;82>ABV 70AB>AC20==O»). # E2>@8E ?VA;O B@0=A?;0=B0FVW >@30=V2, O:V >B@8DV;0:B8:8 F8B><<530;>2V@CA=>W V=D5:FVW C 28A>:8E 4>70E (8 3 =0 4>1C), =52@>;>3VG=V @50:FVW

28=8:0NBL G0ABVH5, =V6 C E2>@8E, O:V >B@8

I>:C 48E0;L=>W A8AB5<8 B0 >@30=V2 3@C4=>W ?>@>6=8=8

5G0AB>: 7048H:0.

I>:C B@02=>3> B@0:BC

V4:>: 48A:>@B C 682>BV, 1;N20==O, 4V0@5O.

I>:C 35?0B>1V;V0@=>W A8AB5<8

C65 @V4:>: >1>@>B=5 71V;LH5==O @V2=O ?5GV=:>28E DC=:FV>=0;L=8E B5ABV2.

5@V>48G=> F5 >?8ACTBLAO O: 35?0B8B.

I>:C H:V@8 B0 ?V4H:V@=8W B:0=8=

5G0AB>: 28A8?, 2;;NG0NG8 O28I0 D>B>A5=A81V;V70FVW.

V4:>: A25@1V6.

C65 @V4:>: :@>?82O=:0, 0=3V>=52@>B8G=89 =01@O:.

I>:C =8@>: B0 A5G>284V;L=>W A8AB5<8

V4:>: ?>@CH5==O DC=:FVW =8@>:.

C65 @V4:>: 3>AB@0 =8@:>20 =54>AB0B=VABL, 1V;L C =8@:0E, 35<0BC@VO (G0AB> 0A>FV9>20=0 7 V=H8<8 ?>@CH5==O<8 DC=:FVW =8@>:).

V;L C =8@:0E <>65 1CB8 0A>FV9>20=89 7 =8@:>2>N =54>AB0B=VABN.

>2V4><;O;>AO ?@> CB2>@5==O ?@5F8?VB0BV2 0F8:;>2V@C C :0=0;LFOE =8@>: V4 G0A

;V:C20==O A;V4 70157?5G8B8 045:20B=89 @V25=L ?@89>74V; «A>1;82>ABV 70AB>AC20==O»).

=HV: T ?>2V4><;5==O ?@> =8@:>2C =54>AB0B=VABL, 0=3V>?0B8G=C 35<>;VB8G=C 0=5

<1>F8B>?5=VN (V=:;>8 C :><1V=0FVW) C BO6:8E E2>@8E 7 V45DVF8B><, >A>1;82> C E2>@8E 7

?V7=V<8 AB04VO<8 -E2>@>18, O:V >B@8:V 4>78 (8000 <3 =0 4>1C) 20;0F8:;>2V@C ?@>BO3<<

B@820;>3> G0AC C ::V=VG=8E 4>A;V465==OE. &V 6 O28I0 1C;8 ?>

5@54>7C20==O.

!8<0B8:0

@8 ?5@54>7C20==V 20;0F8:;>2V@C ?>2V4><;O;>AO ?@> @>728B>: 3>AB@>W =8@:>2>W

=54>AB0B=>ABV B0 =52@>;>3VG=8E A8<>ABV, 30;NF8=0FVW, 068B0FVN, 7=865==O @>7C<>28E

74V1=>AB59 V :>3;8 A?>AB5@V30B8AO =C4>B0 V 1;N20==O. ;O 70?>1V30==O =5=02<8AB=>7C20==N

A;V4 1CB8 >15@56=8< ?@8 70AB>AC20==V. 030B> 28?04:V2 ?5@54>7C20==O 1C;8 ?>2O70=V V7

70AB>AC20==O< ?@5?0@0BC 4;O ;V:C20==O E2>@8E V7 =8@:>2>N =54>AB0B=VABN B0 E2>@8E

;VB=L>3> 2V:C, O:8<=5 1C;> 2V4?>2V4=> 7<5=H5=> 4>7C.

V:C20==O

0FVT=B0<=5>1EV4=> ?5@51C20B8 ?V4 @5B5;L=8< <548G=8< =03;O4>< 4;O 28O2;5==O ?@>O2V2
B>:A8G=>ABV. 5<>4V0;V7 7=0G=> ?@8A:>@NT 282545==O 0F8;:>2V@C 7 :@>2V V B>3> <>6=0
22060B8 >?B8<0;L=8< A?>A>1< ;V:C20==O C 28?04:C A8<0B8G=>3> ?5@54>7C20==O.

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

\$5@B8;L=VABL

0 40=8<8 4>A;V4V2 =0 B20@8=0E 0;LB@5:A =5 <02 ??;82C =0 D5@B8;L=VABL. 4=0: 70AB>AC20==O
28A>:8E ?0@5=B5@0;L=8E 4>7 0F8;:>2V@C A?@8G8=O;> B5AB8:C;O@=89 5D5:B C IC@V2 B0 A>10:.
;V=VG=8E 4>A;V465=L 7 282G5==O ??;82C 0;LB@5:A0 =0 D5@B8;L=VABL ;N48=8 =5 ?@>2>48;>AL,
>4=0: ?VA;O 645==>3> 70AB>AC20==O 0F8;:>2V@C C 4>7V 2V4 400 <3 4> 1 3 7ABV, <>@D>;>3VW B0
@CE;82>ABV A?5@<0B>7>W4V2 =5 A?>AB5@V30;>AL.

03VB=VABL

0=V ?@> 70AB>AC20==O 0;LB@5:AC C ?5@V>4 203VB=>ABV >1<565=V. 0;LB@5:A ?@8 ;V:C20==V
203VB=8E <>6=0 70AB>A>2C20B8 ;8H5 B>4V, :>;8 ?>B5=V9=0 :>@8ABL 2V4 ;V:C20==O<0B5@V
?5@528ICT <>6;8289 @878: 4;O ?;>40. A=CNBL 704>:C<5=B>20=V 40=V 7 @5TAB@C A?>AB5@565==O
70 203VB=8<8, O:V 70AB>A>2C20;8 20;0F8;:>2V@ 01> 1C4L-O:C D>@2V@C (0:B82=89 <5B01>;VB
20;0F8;:>2V@C): 111 B0 1 246 6V=>: 2V4?>2V4=> (29 V 756 203VB=8E 2V4?>2V4=> 70AB>A>2C20;8
20;0F8;:>2V@ 01> 1C4L-O:C D>@2V@C C B@8<5AB@V 203VB=>ABV). 0 @57C;LB0B0<8
FL>3> A?>AB5@565==O =5 1C;> ?> 71V;LH5==O C@>465=8E 45D5:BV2 C =>2>=0@>465=8E A5@54
203VB=8E, O:V ?@89<0;8 0F8;:>2V@ ?>@V2=O=> V7 7030;L=>N ?>?C;OFVTN B0:8E ?0FVT=BV2. C4L-
O:89 C@>465=89 45D5:B =5 <02 C=V:0;L=>3> 01> ABV9:>3> E0@0:B5@C, I>1 <>6=0 1C;> 287=0G8B8
T48=C ?@8G8=C WE 28=8:=5==O. >3;O4C =0 <0;C :V;L:VABL 203VB=8E, 70 O:8-8 ?@>2>48;>AO
A?>AB5@565==O, 4>AB>2V@=>3> B0 >AB0B>G=>3> 28A=>2:C I>4> 157?5:8 70AB>AC20==O
20;0F8;:>2V@C 203VB=8<8 7@>18B8 =5 <>6=0 (482. @>74V; «\$0@<0:>;>3VG=V 2;0AB82>ABV»).

>4C20==O 3@C44N

F8;:>2V@, 3>;>2=89 <5B01>;VB 20;0F8;:>2V@C, ?@8=8:0T C 3@C4=5 <>;>. C;> 2AB0=>2;5=>, I>
?VA;O I>45==>3> 70AB>AC20==O 500 <3 20;0F8;:>2V@C A5@54=O ?V:>20 :>=F5=B@0FVO
0F8;:>2V@C C 3@C4=>=F5=B@0FVN 0F8;:>2V@C C ?;072V <0B5@V. !?V22V4=>H5==O
=F5=B@0FVTN 0F8;:>2V@C C 3@C4=>2V <0B5@V AB0=>28BL 2V4 1,4 4> 2,6 (2 A5@54=L>
=F5=B@0FVO 0F8;:>2V@C C 3@C4=>2V@C <0BV@N C 4>7V 500 <3 2 @078 =0 4>1C 48B8=0 7 3@C4=8
< <>;>:>B@8<0T 4>7C 0F8;:>2V@C ?@81;87=> 0,61 1C. 5@V>4 =0?V2282545==O 0F8;:>2V@C 7
3@C4=>3> <>;>:0 T 0=0;>3VG=8< 4> B0:>3> 7 ?;07<8 :@>2V. 572V@ C ?;072V <0B5@V, 3@C4=>
@87=0G0B8 0;LB@5:A 6V=:0< C ?5@V>4 3@C4=>3> 283>4>2C20==O 7 >15@56=VABN, ;8H5 C
28?04:0E ;V=VG=>W =5>1EV4=>ABV. @>B5 0F8;:>2V@ 70AB>A>2CNBL 4;O ;V:C20==O
=>2>=0@>465=8E 7 V=D5:FVO<8, A?@8G8=5=8<8 2V@CA>< ?@>AB>3> 35@?5AC, H;OE><
2=CB@VH=L>25==>3> 22545==O C 4>70E 30 <3/:3 =0 4>1C.

VB8.

0AB>A>2CTBLAO 4VBO< 2V:> 2V4 12 @>:V2 4;O ?@>DV;0:B8:8 F8B<530;>2V@CA=>W V=D5:FVW
B0 E2>@>18.

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

V4@0B0FVO: A;V4 ?V4B@8 22>48BLAO, C E2>@8E V7 ?V428I5=8< @878:> 453V4@0B0FVW,
>A>1;82> C E2>@8E ;VB=L>3> 2V:C.

0AB>AC20==O ?@8 ?>@CH5=V9 DC=:FVW =8@>: V C E2>@8E ;VB=L>3> 2V:C

F8;:>2V@ 282>48BLAO =8@:0<8, V B>7C 20;0F8;:>2V@C A;V4 7<5=H8B8 4;O E2>@8E V7 ?>@CH5==O
<8 DC=:FVW =8@>: (482. @>74V; «!>AV1 70AB>AC20==O B0 4>78»). %2>@V ;VB=L>3> 2V:C<0NBL
7=865=C DC=:FVN =8@>: V ?>B@51CNBL :>@5:FVW 4>78. # ?0FVT=BV2 7 ?>@CH5==O<8 DC=:FVW
=8@>: V C E2>@8E ;VB=L>3> 2V:C ?V428ICTBLAO @878: @>728B:C =52@>;>3VG=8E CA;:04=5=L, W
<=5>1EV4=89 @5B5;L=89 =03;O4 4;O 28O2;5==O F8E 5D5:BV2. 0 40=8<8 ?>2V4><;5=L, B0:V @50:FVW
T C 1V;LH>ABV 28?04:V2 >1>@>B=8<8 ?VA;O ?@8?8=5==O ;V:C20==O (482. @>74V; «>1VG=V
@50:FVW»)

0AB>AC20==O 1V;LH 28A>:8E 4>7 0;LB@5:AC ?@8 ?5GV=:>2V9 =54>AB0B=>ABV B0

B@0=A?;0=B0FVW ?5GV=:8

)>4> 70AB>AC20==O 1V;LH 28A>:8E 4>7 0;LB@5:AC (4 <3 V 1V;LH5 =0 4>1C) 4;O ;V:C20==O

?0FVT=BV2 V7 70E2>@N20==O<8 ?5GV=:8 40=8E =5<0T, B>1EV4=> 7 >15@56=VABN ?@87=0G0B8

1V;LH 28A>:V 4>78 0;LB@5:AC B0:8< E2>@8A;V465==O I>4> 70AB>AC20==O 0;LB@5:AC ?@8
B@0=A?;0=B0FVW ?5GV=:8 =5 ?@>2>48;8AL; >4=0: 1C;> 2AB0=>2;5=>, I> ?@>DV;0:B8:0 70 4>?>
<>3>N 28A>:8E 4>7 0F8;:>2V@C 7<5=HCT G0AB>BC V=DV:C20==O B0 70E2>@N20==O,
A?@8G8=5=8E F8B><530;>2V@CA>
0AB>AC20==O ?@8 ;V:C20==V >?5@V7C20;L=>3> 35@?5AC
@8 ;V:C20==V E2>@8E, >A>1;82> 7 >A;015=8< V<, =5>1EV4=> C206=> AB568B8 70 ;V=VG=>N
2V4?>2V44N. /:I> 2V4?>2V4L =0 ;V:C20==O =54>AB0B=O, @5:<5=4CTBLAO 70AB>AC20==O
2=CB@VH=L>25==>W ?@>B82V@CA=>W B5@0?VW. 0FVT=BV2 7 CA;:04=5=8< >?5@V7C20;L=8<
35@?5A<, =0?@8;:04 7 C@065==O< 2VAF5@0;L=8E >@30=V2, 48A5
@V< B>3>, E2>@8< 7 >A;01;5=8< V<, O:V <0NBL 35@?5B8G=V C@065==O >G59 01> <0NBL 28A>:89
@878: 48A5@>18 B0 C@065==O 2VAF5@0;L=8E >@30=V2, =5>1EV4=> ;V:C20B8AO
2=CB@VH=L>25==8<8 ?@>B82V@CA=8<8 70A>10<8.

<5=H5==O ?5@540GV 2V@CAC 35=VB0;L=>3> 35@?5AC
!C?@5A82=0 B5@0?VO 0;LB@5:A>< 7<5=HCT @878: ?5@540GV 35=VB0;L=>3> 35@?5AC. >=0 =5
28;V:>2CT 35@?5B8G=C V=D5:FVN, 0 B0:>6 ?>2=VABN =5 28;:NG0T @878: ?5@540GV 2V@CAC.
>40B:>2> 4> B5@0?VW 0;LB@5:A>< @5:<5=4CTBLAO, I>1 E2>@V 4>45@6C20;8AO ?@028;
157?5G=>3> A5:AC.
0AB>AC20==O ?@8 F8B><530;>2V@CA=V9 V=D5:FVW
=D>@<0FVO I>4> 5D5:B82=>ABV ?@5?0@0BC, >B@8<0=0 ?@8 ;V:C20==V E2>@8E 7 28A>:8< @878:>
< F8B><530;>2V@CA=>W V=D5:FVW 7 <5B>N ?@>DV;0:B8:8 ?VA;O B@0=A?;0=B0FVW >@30=V2
?>:070;0, I> 20;0F8;:>2V@ A;V4 70AB>A>2C20B8 F8< ?0FVT=B0<, O:I> 7 ?@8G8= 157?5:8 ?@8?8=5=>
70AB>AC20==O 20;30=F8;:>2V@C 01> 30=F8;:>2V@C. 0AB>AC20==O 28A>:8E 4>7 20;0F8;:>2V@C,
=5>1EV4=5 4;O ?@>DV;0:B8:8 F8B><530;>2V@CA=>W V=D5:FVW, <>65 A?@8G8=OB8 G0ABVH5
28=8:=5==O ?>1VG=8E @50:FV9, 2;:NG0NG8 ?>@CH5==O 7 1>:C =5@2>2>W A8AB5<8, ?>@V2=O=>
V7 70AB>AC20==O< =86G8E 4>7, I> 70AB>A>2CNBLAO ?@8 V=H8E ?>:070==OE. 5>1EV4=> C206=>
AB568B8 70 DC=:FVTN =8@>: ?0FVT=BV2 B0 ?@>2>48B8 2V4?>2V4=C :>@5:FVN 4>7 ?@5?0@0BC.

**40B=VABL 2?;820B8 =0 H284:VABL @50:FVW ?@8 :5@C20==V 02B>B@0=A?>@B< 01> @>1>BV 7
V=H8<8 <5E0=V7<0<8.**

0=V ;V=VG=8E 4>A;V465=L 7 FL>3> ?8B0==O 2V4ACB=V, D0@<0:>:>3VO 20;0F8;:>2V@C =5 40T
?V4AB02 >GV:C20B8 1C4L-O:89 =530B82=89 2?;82. @>B5 ?V4 G0A >FV=:8 740B=>ABV ?0FVT=B0
:5@C20B8 02B><>1V;5< B0 V=H8<8 <5E0=V7<0<8 A;V4 2@0E>2C20B8 9>3> ;V=VG=89 AB0= V
?@>DV;L ?>1VG=8E 5D5:BV2 0;LB@5:AC.

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

C4L-O:8E ;V=VG=> 7=0GCI8E D>@< 270T<>4VW 28O2;5=> =5 1C;>.
F8;:>2V@ 282>48BLAO ?5@5206=> C =57< 0:B82=>W :0=0;LF52>W A5:@5FVW. C4L-O:V ?@5?0@0B8,
I> ?@87=0G0NBLAO >4=>G0A=> V <0NBL 2?;82 =0 F59 <5E0=V7< 282545==O, <>6CBL 71V;LHC20B8
:=F5=B@0FVN 0F8;:>2V@C C ?;072V ?VA;O 70AB>AC20==O 0;LB@5:AC. VA;O ?@89>V 1 3 F8
<5B848=C V ?@>15=5F84C, O:V 1;:>CNBL :0=0;LF52C A5:@5FVN, 71V;LHCTBLAO ?>:I0 ?V4 :@82>N
<<:=F5=B@0FVO/G0A> 0F8;:>2V@C V 7<5=HCTBLAO 9>3> =8@>:289 ;V@5=A, ?@>B5
=5>1EV4=VABL C 778 2V4ACB=O 7 >3;04C =0 H8@>:89 B5@0?52B8G=89 V=45:A 0F8;:>2V@C.
)>4> E2>@8E, O:V >B@8:V 4>78 0;LB@5:AC (4 3 V 1V;LH5 =0 4>1C), A;V4 1CB8 >15@56=8<8 ?@8
>4=>G0A=>2V >4=>3> 01> >1>E ?@5?0@0BV2 B0 WE <5B01>;V BV2. @8 >4=>G0A=>AC20==V 7
D5=>;0BC <>D5B8;>< (VAC?@5A>@=8< ?@5?0@0B<<, I> 70AB>A>2CTBLAO ?VA;O ?5@5A04:8
>@30=V2) ?V428ICTBLAO @V25=L C ?;072V 0F8;:>2V@C B0 =50:B82=>3> <5B01>;VBC D5=>;0BC
<>D5B8;C.

15@56=8<8 A;V4 1CB8 B0:>6 (7 <>=VB>@8=3<< 7:)?@8 >4=>G0A=>:8E 4>7 0;LB@5:AC (4 3 V 1V;LH5)
B0 V=H8E ?@5?0@0BV2, I> 2?;820NBL =0 DC=:FVN =8@>: (=0?@8;:04 F8;:>A?>@8=C, B0:@>;V

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

\$0@<0:>48=0

0;0F8;:>2V@ ?@>B82V@CA=89 ?@5?0@0B, L-20;V=>289 5DV@ 0F8;:>2V@C, I> T 0=0;>3<<
?C@8=>2>3> (3C0=V=) =C;:5>784C. >@30=V72V@ H284:> B0 <0965 ?>2=VABN ?5@5B2>@NTBLAO 2
0F8;:>2V@ V 20;V= 70 4>?><>3>N 20;0F8;:>2V@3V4@>;078. F8;:>2V@ T A?5F8DVG=8< V=3V1VB>@>
< 2V@CAV2 35@?5AC 7 0:B82=VABN in vitro ?@>B8 2V@CAV2 ?@>AB>3> 35@?5AC B0 B8?C,

2V@CAC Varicella zoster, F8B<530;>2V@CAC, 2V@CAC ?HB59=0-0@@@0 B0 2V@CAC 35@?5AC ;N48=8 VB8?C. F8:;>2V@ V=3V1CT A8=B57 2V@CA=>W >4@07C ?VA;O D>AD>@8;N20==O V ?5@5B2>@5==O 2 0:B82=C D>@AD0B 0F8:;>2V@C. 0 ?5@HV9 AB04VW D>AD>@8;N20==O =5>1EV4=0 0:B82=VABL 2V@CA>A?5F8DVG=>3> D5@<5=BC. ;O 2V@CAC ?@>AB>3> 35@?5AC, 2V@CAC Varicella zoster B0 2V@CAC ?HB59=0-0@@@0 F5 2V@CA=0 B&20=8E 2V@CA>20 A5;5:B82=VABL D>AD>@8;N20==O 715@V30TBLAO ?@8 F8B<530;>2V@CA=V9 V=D5:FVW V >?>A5@54:CTBLAO G5@57 ?@>4C:B 35=0 D>AD>B@0=AD5@078 UL97. :B820FVO 0F8:;>2V@C A?5F8DVG=8< 2V@CA=8< D5@<5=B>< 7=0G=>N N ?>OA=NT 9>3> A5;5:B82=VABL. @>F5A D>AD>@8;N20==O 0F8:;>2V@C (?5@5B2>@5==O 7 <=>- C B@8D>AD0B) 74V9A=NTBLAO ;VB8==8<8 :V=070<8. F8:;>2V@C B@8D>AD0B :>=:C@5=B=> V=3V1CT 2V@CA=C -?>;V<5@07C B0 V=>:@?>@CTBLAO C 2V@CA=C , I> ?@872>48BL 4> >1;V30B=>3> (?>2=>3>) @>7@82C ;0=FN30, ?@8?8=5==O A8=B57C , V >B65 4> 1;>;C20==O @5?;V:0FVW 2V@CAC. 578AB5=B=VABL 7C<>2;5=0 45DVF8B<< B8 ?@872>48BL 4> =043> @>7?>2AN465==O 2V@CAC 2 >@30=V7A?>40@O. =>4V 7<5=H5=0 GCB;82VABL 4> 0F8:;>2V@C 7C<>2;5=0 ?>O2>N HB0@CH5=>N AB@C:BC@>N 2V@CA=>W "01> -?>;V<5@078. V@C;5=B=VABL F8E @V7=>284V2 2V@CAC =0304CT B0:C C 9>3> 48:>3> HB0 (8@>:5 <=>VB>@C20==O ;V=VG=8E V7>;OBV2 2V@CAC ?@>AB>3> 35@?5A0 B0 2V@CAC Varicella zoster C E2>@8E, O:V ;V:C20;8AL 0F8:;>2V@<, 40;> <6;82VABL 7OAC20B8, I> C E2>@8E V7 =>@ <0;L=8< V< 2V@CA V7 7<5=H5=>N GCB;82VABN 4> 0F8:;>2V@C 7CAB@VG0TBLAO 28=OB:>2> @V4:> V =5 G0AB> ?@>O2;OTBLAO ;8H5 C E2>@8E 7 B06:8< ?>@CH5==O< V@30=V2 01> C @5F8?VT=BV2 :VAB:>2>3> <>7:C, ?@8 ?@>2545==V EVB5@0?VW 7;>O:VA=8E =>2>CB2>@5=L B0 - V=DV:>20=8E. 0;LB@5:A ?@8A:>@NT ?@8?8=5==O 1>;N ?@8 ;V:C20==V >?5@V7C20;L=>3> 35@?5AC, 7<5=HCT B@820;VABL 1>;L>2>3> A8=4@>6 :V;L:VABL E2>@8E V7 7>AB5@0A>FV9>20=8< 1>;5<, C B>AB@>N B0 ?>AB35@?5B8G=>N =52@0;3VTN. @>DV;0:B8:0 F8B<530;>2V@CA=>W V=D5:FVW 70 4>?><>3>N 0;LB@5:AC 7<5=HCT @878: 3>AB@>3> 2V4B>@3=5==O B@0=A?;0=B0BC (E2>@V ?VA;O ?5@5A04:8 =8@>:), G0AB>BC 28=8:=5==O >?>@BC=VAB8G=8E V=D5:FV9 B0 V=H8E V=D5:FV9, I> A?@8G8=ONBLAO 2V@CA< 35@?5AC (2V@CA<< ?@>AB>3> 35@?5AC B0 2V@CA<< Herpes zoster). \$0@<0:>:V=5B8:0. 1A>@1FVO VA;O ?5@>@0;L=>3> ?@89>2V@ 4>1@5 2A<>:BCTBLAO, H284:> B0 <0965 ?>2=VABN ?5@5B2>@NTBLAO 2 0F8:;>2V@ V 20;V=. &5 ?5@5B2>@5==O, >G5284=>, 2V41C20TBLAO 70 4>?> <>3>N D5@<5=BC 20;0F8:;>2V@3V4@>;078, 284V;5=8< 7 ?5GV=:8 ;N48=8. V>4>ABC?=VABL 0F8:;>2V@C ?@8 ?@89>1 3 20;0F8:;>2V@C AB0=>28BL 54 % V =5 7<5=HCTBLAO ?V4 G0A ?@89>max C <560E B5@0?52B8G=>3> 71V;LH5==O 4>7 B0 7<5=H5==O 1V>4>ABC?=>ABV ?@8 70AB>AC20==V 4>7 1V;LH8E 70 500 <3. !5@54=O ?V:>20 :>=F5=B@0FVO 0F8:;>2V@C AB0=>28BL 10-37 (2,2-8,3 28BL 2AL>3> 4 % 2V4 :>=F5=B@0FVW 0F8:;>2V@C V =0AB0T 2 A5@54=L>48=8 7<5=HCTBLAO =86G5 28W :V;L:>ABV. \$0@<0:>:V=5B8G=V ?0@0<5B@8 20;0F8:;>2V@C B0 0F8:;>2V@C ?VA;O @07>2>3> B0 ?>2B>@=>3> 22545==O ?>4V1=V. >7?>4V; 2O7C20==O 20;0F8:;>2V@C 7 1V;:0<8 ?;07<8 4C65 =87L:5 15 %. @>=8:=5==O C F5@51@>A?8=0;L=0;L=C @V48=C (&!), I> 287=0G0TBLAO A?V22V4=>H5==O< &! /AUC ?;07<8 :@>2V ?@81;87=> 25 % 4;O 0F8:;>2V@C B0 <5B01>;VBC 8-3V4@>:A80F8:;>2V@ B0 2,5 % 4;O <5B01>;VBC 9- :0@1>:A8<5B>:8<5B8;3C0=V=. 5B01>;V7< VA;O ?5@>@0;L=>3> 70AB>AC20==O 0;LB@5:A :>=25@BCTBLAO 4> 0F8:;>2V@C B0L-20;V=C G5@57 <5B01>;V7< ?5@H>3> ?@>E>465==O C :8H5G=8:C B0/01> ?5GV=FV. 525;8:>NN 0F8:;>2V@ :>=25@BCTBLAO C <5B1>;VB8 9- :0@1>:A8<5B>:8<5B8;3C0=V= 70 4>?><>3>N 0;:>3>;L- B0 0;L453V4-453V4@>35=078 B0 C 8-3V4@>:A80F8:;>2V@ 70 4>?><>3>N 0;L453V4 >:A84078. @81;87=> 88 % 7030;L=>W 5:A?>78FVW ?@5?0@0BC C ?;072V =0;568BL 0F8:;>2V@C, 11 % - 9- :0@1>:A8<5B>:8 <5B8;3C0=V=C B0 1 % - 8-3V4@>:A80F8:;>2V@C. V 0;LB@5:A, =V 0F8:;>2V@ =5 <5B01>;V7CNBLAO D5@<5=B0<8 F8B>E@>. 82545==O

5@V>4 =0?V2282545==O 0F8;:>2V@C ?VA;O >4=>@07>2>3> B0 1030B>@07>2>3> 22545==O
20;0F8;:>2V@C E2>@8< 7 =>@<0;L=>N DC=:FVTN =8@>: AB0=>28BL ?@81;87=> 3 3>48=8.
0;0F8;:>2V@ 282>48BLAO V7 A5G5N 3>;>2=8< G8=>< C 283;O4V 0F8;:>2V@C (1V;LH5 80 % 4>78) B0
9>3> <5B01>;VBC 9-:0@1>:A8<5B>:A8<5B8;3C0=V=C.

A>1;82V 3@C?8 ?0FVT=BV2

E2>@8E V7 B5@N AB04VTN =8@>:2>W =54>AB0B=>ABV ?5@V>4 =0?V2282545==O 0F8;:>2V@C
AB0=>28BL ?@81;87=> 14 3>48=.

V@CA >?5@V7C20;L=>3> 35@?5AC B0 2V@CA ?@>AB>3> 35@?5AC ACBBT2> =5 7

4>A;V465==V D0@<0:>:V=5B8:8 20;0F8;:>2V@C B0 0F8;:>2V@C ?V4 G0A ?V7=VE AB04V9

203VB=>ABV ?;>I0 ?V4 :@82>N <<=>F5=B@0FVO G0A» 0F8;:>2V@C C D07V ?;0B> ?VA;O

70AB>AC20==O 20;0F8;:>2V@C C 4>7V 1000 <3 1C;0 ?@81;87=> C 2 @078 28I>N, =V6 ?VA;O

70AB>AC20==O 0F8;:>2V@C ?5@>@0;L=> C 4>7V 1200 <3 =0 4>1C.

?0FVT=BV2 7 -V=D5:FVTN D0@<0:>:V=5B8G=V E0@0:B5@8AB8:8 0F8;:>2V@C ?VA;O

70AB>AC20==O @07>2>W 01> 1030B>@07>2>W 4>78 1000 <3 01> 2000 <3 0;LB@5:AC =5 7@V2=O=> 7

B0:8<8 C 74>@>28E >AV1.

@5F8?VT=BV2 B@0=A?;0=B0BV2 >@30=V2, O:V >B@82V@ C 4>7V 2000 <3 4 @078/4>1C,

<0:A8<0;L=0 :>=F5=B@0FVO 0F8;:>2V@C 4>@V=N20;0 01> ?5@528IC20;0 B0:C C 74>@>28E

4>1@>2>;LFV2, O:V >B@87C ?@5?0@0BC, 0 4>1>2V ?>:07=8:8 ?;>IV ?V4 :@82>N

<<=>F5=B@0FVOG0A» 1C;8 7=0G=> 1V;LH8<8.

\$0@<0F52B8G=V E0@0:B5@8AB8:8.

A=>2=V DV78:>-EVABV: 1V;>3> :>;L>@C, 2:@8BV >1>;>=:>N, 284>265=V 42>>?C;;V B01;5B:8 7 1V;>N
01> <0965 1V;>N A5@F528=>N, 157 @8A:8, 7 3@02VN20==O< GX CF1.

"5@ABV.

3 @>:8.

#<>28 715@V30==O.

15@V30B8 2 >@83V=0;L=V9 C?0:>2FV ?@8 B5ABC?=>

#?0:>2:0. "01;5B:8 C 1;VAB5@0E 7 ?>;V2V=V;E;>@84C B0 0;NW D>;L38, 2==C C?0:>2:C. #?0:>2:0 42

B01;5B:8.

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

8@>1=8:8.

8@>1=8:. ;0:A> 5;;;> !.. (A?0=VO)/Glaxo Wellcome S.A. (Spain);

0:C20;L=8: B0 28?CA: A5@VW.;0:A>!

VAF57=0E>465==O.;0:A> 5;;;> !.., 25=V40 45 :AB@5<04C@0 3, 09400 @0=40 45 C5@>, C@3>A,

A?0=VO/Glaxo Wellcome S.A., Avenida de Extremadura 3, 09400 Aranda de Duero, Burgos, Spain;

;0:A>!