

**PrP»CЦ PjPμPrPëC‡PSPsPiPs P•P°CíC,PsCíCíPIP°PSPSCЦ P»C-PeP°CĤCíCĤPePsPiPs
P•P°CíPsP±Cí**

(CORDARONE^ò)

P₄C₇PsC, PēP°C₇Pēc, PjC-C†PSC- PIP»P°CfC, PēPIPsCfC, C-. P₄PsPrPsPIP¶P_μPSPSCI¶
C,,P°P·Pē 3 PiPsC, P_μPSC†C-P°P»Cr PrC-C— PjC-PsPeP°C₇PrP°, PiPsP»PsPIPSPēPj C†PēPSPsPj
PIPSP°CfP»C-PrPsPe C-PSPiC-P±CfPIP°PSPSCI¶ PeP°P»C-C”PIPēc... PeP°PSP°P»C-PI (PeP°P°Cf
III P·P° PeP»P°CfPēc,,C-PeP°C†C-C”C₇ P’PsPiP_μPS-P’C-P»CHC₁PjCfP°).

PJPIPsPIC-P»CHBPSPµPSPSCЦ CГPµCГC†PµPIPsPiPs CГPёC,PjCГ P·P°PIPrCЦPePё
PiCГPёPiPSC-C†PµPSPSCГ P°PIC,PsPjP°C,PёP·PjCГ CГPёPSCГCГPsPIPsPiPs PICГP·P»P°.
P|PµPNё PµC,,PµPeC, PSPµ P±P»PsPeCГC”C,CHCГCЦ P°C,CГPsPiC-PSPsPj.

PќPµPePsPSPeCГCГPµPSC,PSP° P°P»CHC,,P°- C,P° P±PµC,P°-
P°PSC,PёP°PrCГPµPSPµCГPiC-C†PSP° PrC-CЦ.

PJPIPsPIC-P»CHBPSPµPSPSCЦ CГPёPSPsP°C,CГC-P°P»CHBPSPsC—,
PiPµCГPµPrCГPµCГPrPSPsC— C,P° PICГP·P»PsPIPsC— PiCГPsPIC-PrPSPsCГC,C-
CЦPePµ CГC,P°C” P±C-P»CHCё PIPёCГP°P¶PµPSPёPj PiCГPё
PiCГPёCГPePsCГPµPSPSC- CГPµCГC†PµPIPsPiPs CГPёC,PjCГ.

P’C-PrCГCГC,PSC-CГC,CH P·PjC-PS P· P±PsPeCГ
PIPSCГC,CГC-CёPSCHPsCёP»CГPSPsC†PePsPIPsC— PiCГPsPIC-PrPSPsCГC,C-.

P—P±C-P»CHCёPµPSPSCЦ CГPµC,,CГP°PeC,PµCГPSPsPiPs PiPµCГC-PsPrCГ C,P°
P·PjPµPSCёPµPSPSCЦ P·P±CГPrP»PёPIPsCГC,C- PjC-PsPeP°CГPrP° PSP°
PiPµCГPµPrCГPµCГPrPSPsPjCГ, PICГP·P»PsPIPsPjCГ C,P° CёP»CГPSPsC†PePsPIPsPjCГ
CГC-PIPSCЦC....

PJPIPsPIC-P»CHBPSPµPSPSCЦ PiCГPsPIC-PrPSPsCГC,C- C,P° PiPsPrPsPIP¶PµPSPSCЦ
CГPµC,,CГP°PeC,PµCГPSPёC... PiPµCГC-PsPrC-PI CГ PrPsPrP°C,PePsPIPёC...
P°C,CГC-PsPIPµPSC,CГPёPeCГP»CЦCГPSPёC... PiCГPsPIC-PrPSPёC... CёP»CЦC...P°C....

P†PSCёC- PIP»P°CГC,PёPIPsCГC,C-. P—PjPµPSCёPµPSPSCЦ CГPiPsP¶PёPIP°PSPSCЦ
PePёCГPSCГ C†PµCГPµP· PiPsPjC-CГPSPµ P·PjPµPSCёPµPSPSCЦ
PiPµCГPёC,,PµCГPёC†PSPsPiPs PsPiPsCГCГ CГCГPrPёPS C,P° P·PjPµPSCёPµPSPSCЦ
C†P°CГC,PsC,Pё CГPµCГC†PµPIPёC... CГPePsCГPsC†PµPSCГ.

P—P±C-P»CHCёPµPSPSCЦ PePsCГPsPSP°CГPSPsPiPs PeCГPsPIPsC,PsPeCГ
P·P°PIPrCЦPePё PiCГCЦPjC-PMё PrC-C— PSP° PiP»P°PrPµPSCHPeC- PjбГ™ CЦP·Pё
CГCГPrPёPS PjC-PsPeP°CГPrP° C,P° PiC-PrC,CГPёPjP°PSPSCЦ CГPµCГC†PµPIPsPiPs
PIPёPePёPrCГ PSP° C,P»C- P·PSPёP¶PµPSPsPiPs P°CГC,PµCГC-P°P»CHBPSPsPiPs
C,PёCГPeCГ C- PiPµCГPёC,,PµCГPёC†PSPsPiPs PsPiPsCГCГ CГCГPrPёPS C,P° PiCГPё
PIC-PrCГCГC,PSPsCГC,C- PSPµPiP°C,PёPIPSPёC... C-PSPsC,CГPsPiPSPёC...
PµC,,PµPeC,C-PI.

P’CГPI PIPёPePsPSP°PSPёPMё PjPµC,P°P°PSP°P»C-P· PrP°PSPёC... 13
PiCГPsCГPiPµPeC,PёPIPSPёC..., CГP°PSPrPsPjC-P·PsPIP°PSPёC...,
PePsPSC,CГPsP»CHBPPIP°PSPёC... PrPsCГP»C-PrP¶PµPSCГ, CГ CЦPePёC... PIP·CЦP»Pё
CГC†P°CГC,CH 6553 PiP°C†C-C”PSC,Pё, CЦPeC- PSPµC%PsPrP°PIPSs PiPµCГPµPSPµCГP»Pё
C-PSC,,P°CГPeC, PjC-PsPeP°CГPrP° (78 %) P°P±Ps C...CГPsPSC-C†PSCГ CГPµCГC†PµPICГ
PSPµPrPsCГC,P°C,PSC-CГC,CH (22 %).

PŸPµCГPµPrPSCЦ C,CГPёPIP°P»C-CГC,CH CГPiPsCГC,PµCГPµP¶PµPSPSCЦ P·P°
PiP°C†C-C”PSC,P°PjPё P±CГP»P° PI PrC-P°PiP°P·PsPSC- PIC-Pr 0,4 PrPs 2,5 CГPsPeC-PI.
PŸPµCГPµPrPSCЦ PrPsP±PsPIP° PiC-PrC,CГPёPjCГCГC†P° PrPsP·P° PiCГPµPiP°CГP°C,CГ
PIP°CГC-CГPIP°P»P° PIC-Pr 200 PrPs 400 PjPi.

P|PµPNё PjPµC,P°P°PSP°P»C-P· PiCГPsPrPµPjPsPSCГC,CГCГPIP°PI, C%Ps P°PjC-PsPrP°CГPsPS

$CfC, P^{\circ}C, P\ddot{e}CfC, P\ddot{e}C\ddot{+}PSPs$ $P \cdot PSP^{\circ}C\ddot{+}CfC\%Ps$ $P \cdot PSP\ddot{e}P\|CfC$ $P \cdot P^{\circ}PiP^{\circ}P \gg CH\ddot{+}PSCf$
 $PeC - P \gg CH\ddot{+}PeC - CfC, CH$ $P \gg P_{\mu}C, P^{\circ}P \gg CH\ddot{+}PSP\ddot{e}C \dots$ $PIP\ddot{e}PiP^{\circ}PrPeC - PI$ $PSP^{\circ} 13 \%$ (95% $P^{\circ}P\ddot{+}$:
 $0,78-0,99$; $p 0,030$) $C, P^{\circ} P \gg P_{\mu}C, P^{\circ}P \gg CH\ddot{+}PSP\ddot{e}C \dots$ $PIP\ddot{e}PiP^{\circ}PrPeC - PI$ $CfPiC\ddot{+}P\ddot{e}C\ddot{+}P\ddot{e}PSP_{\mu}PSP\ddot{e}C \dots$
 $PiPsC\ddot{+}CfC\ddot{+}P_{\mu}PSPSC\ddot{+}PjP\ddot{e}C\ddot{+}P\ddot{e}C, PjCf$ $PSP^{\circ} 29 \%$ (95% $P^{\circ}P\ddot{+}$: $0,59-0,85$; $p = 0,0003$).

$P_{\mu}C\ddot{+}PsC, P_{\mu}C\ddot{+}C - C\ddot{+}P_{\mu}P \cdot CfP \gg CH\ddot{+}C, P^{\circ}C, P\ddot{e}CfP \gg C - PrC - PSC, P_{\mu}C\ddot{+}PiC\ddot{+}P_{\mu}C, CfPIP^{\circ}C, P\ddot{e}P \cdot$
 $PsP \pm P_{\mu}C\ddot{+}P_{\mu}P\|PSC - CfC, CH$ $CfP \cdot PiB\ddot{+}^{\text{TM}}C\ddot{+}P \cdot PeCfP \cdot PiP_{\mu}C, P_{\mu}C\ddot{+}PsPiP_{\mu}PSPSC - CfC, CH$
 $C\ddot{+}C - P \cdot PSP\ddot{e}C \dots$ $PrPsCfP \gg C - PrP\|P_{\mu}PSC\ddot{+}H$ ($PIC - PrPjC - PSPSPSCfC, C - PiPsPiB\ddot{+}^{\text{TM}}C\ddot{+}P \cdot P^{\circ}PSC -$
 $PiPsP \gg PsPIPSP\ddot{e}PjC\ddot{+}P\ddot{e}PSPsPjC - P \cdot PIPeP \gg CH\ddot{+}P_{\mu}PSP\ddot{e}PjP\ddot{e}Cf$ $PrPsCfP \gg C - PrP\|P_{\mu}PSPSC\ddot{+}$
 $PiPsPiCfP \gg C\ddot{+}C - C\ddot{+}PjP\ddot{e}, C, C\ddot{+}P\ddot{e}PiP^{\circ}P \gg C - CfC, CH$ $PiP_{\mu}C\ddot{+}C - PsPrCf$
 $CfPiPsCfC, P_{\mu}C\ddot{+}P_{\mu}P\|P_{\mu}PSPSC\ddot{+}P \cdot P^{\circ}PiP^{\circ}C\ddot{+}C - C^{\circ}PSC, P^{\circ}PjP\ddot{e}, PIP\ddot{e}PePsC\ddot{+}P\ddot{e}CfC, P^{\circ}PSPsCH$
 $PjP_{\mu}C, PsPrPsP \gg PsPiC - C^{\circ}CH$ $C, P^{\circ}C\ddot{+}P_{\mu}P \cdot CfP \gg CH\ddot{+}C, P^{\circ}C, P^{\circ}PjP\ddot{e}$ $PrPsCfP \gg C - PrP\|P_{\mu}PSC\ddot{+}H$).

$P^{\circ}C - PrCfPsC, PsPePiP^{\circ}C\ddot{+}C - C^{\circ}PSC, C - PI, CfC\ddot{+}PeP\ddot{e}C \dots$ $P \pm CfP \gg P^{\circ}P \cdot P^{\circ}CfC, PsCfPsPIP^{\circ}PSP^{\circ}$
 $PIC - PrPjC - PSP^{\circ}PiC\ddot{+}P_{\mu}PiP^{\circ}C\ddot{+}P^{\circ}C, Cf, PI$ $PiC\ddot{+}CfPiC - PiC\ddot{+}P\ddot{e}PN\ddot{+}PsPjCf$ $P^{\circ}PjC - PsPrP^{\circ}C\ddot{+}PsPSCf$
 $P \pm CfPI$ $PIP\ddot{e}C\%P\ddot{e}PN\ddot{+}$ (41%), $PSC - P\|CfPiC\ddot{+}CfPiC - PiP \gg P^{\circ}C\ddot{+}P_{\mu}P \pm Ps$ (27%).

$Pj 7 \%$ $PiP^{\circ}C\ddot{+}C - C^{\circ}PSC, C - PI, C\ddot{+}PeC - PiC\ddot{+}P\ddot{e}PN\ddot{+}PjP^{\circ}P \gg P\ddot{e}P^{\circ}PjC - PsPrP^{\circ}C\ddot{+}PsPS,$
 $C\ddot{+}PsP \cdot PIP\ddot{e}PSCfPICfC\ddot{+}PiC - PiPsC, P\ddot{e}C\ddot{+}P_{\mu}PsP, PiPsC\ddot{+}C - PIPSC\ddot{+}PSPsP \cdot 1 \%$ $CfPiC\ddot{+}CfPiC -$
 $PiP \gg P^{\circ}C\ddot{+}P_{\mu}P \pm Ps.$ $P^{\circ}C - PiP_{\mu}C\ddot{+}C, P\ddot{e}C\ddot{+}P_{\mu}PsP \cdot P \pm CfPI$ $PrC - P^{\circ}PiPSPSCfC, PsPIP^{\circ}PSP\ddot{e}PN\ddot{+}$ $Cf 1,4 \%$
 $PiP^{\circ}C\ddot{+}C - C^{\circ}PSC, C - PI$ $PiC\ddot{+}CfPiP\ddot{e}PiC\ddot{+}P\ddot{e}PN\ddot{+}PsPjCf$ $P^{\circ}PjC - PsPrP^{\circ}C\ddot{+}PsPSCf$ $PiPsC\ddot{+}C - PIPSC\ddot{+}PSPs$
 $P \cdot 0,5 \%$ $CfPiC\ddot{+}CfPiC - PiP \gg P^{\circ}C\ddot{+}P_{\mu}P \pm Ps.$

$P\ddot{+}PSC, P_{\mu}C\ddot{+}CfC, P\ddot{e}C\ddot{+}C - PN\ddot{+}PSP^{\circ}PiPSP_{\mu}PIPjPsPiP^{\circ}C, C - C\ddot{+}C\ddot{+}PsP \cdot PIP\ddot{e}PSCfP \gg P^{\circ}CfC\ddot{+}CfCf$ $Cf 1,6 \%$
 $PiP^{\circ}C\ddot{+}C - C^{\circ}PSC, C - PI$ $PiC\ddot{+}CfPiP\ddot{e}PiC\ddot{+}P\ddot{e}PN\ddot{+}PsPjCf$ $P^{\circ}PjC - PsPrP^{\circ}C\ddot{+}PsPSCf$ $PiPsC\ddot{+}C - PIPSC\ddot{+}PSPs$
 $P \cdot 0,5 \%$ $CfPiC\ddot{+}CfPiC - PiP \gg P^{\circ}C\ddot{+}P_{\mu}P \pm Ps.$

$P_{\mu}P_{\mu}PrC - P^{\circ}C, C\ddot{+}P\ddot{e}C\ddot{+}PSP^{\circ}PiPsPiCfP \gg C\ddot{+}C - C\ddot{+}C.$ $P\ddot{+}P_{\mu}C\ddot{+}P_{\mu}PrPrC - C, P_{\mu}PN\ddot{+}PSP_{\mu}$
 $PiC\ddot{+}PsPiPsPrP\ddot{e}P \gg PsCfCH$ $P\|PsPrPSP\ddot{e}C \dots$ $PePsPSC, C\ddot{+}PsP \gg CH\ddot{+}PsPIP^{\circ}PSP\ddot{e}C \dots$
 $PeP \gg C - PSC - C\ddot{+}PSP\ddot{e}C \dots$ $PrPsCfP \gg C - PrP\|P_{\mu}PSC\ddot{+}H.$ $P - P^{\circ}PrP^{\circ}PSP\ddot{e}PjP\ddot{e}P \gg C - C, P_{\mu}C\ddot{+}P^{\circ}C, CfC\ddot{+}P\ddot{e}$
 $P \pm P_{\mu}P \cdot PiP_{\mu}PeP^{\circ}P \cdot P^{\circ}CfC, PsCfCfPIP^{\circ}PSPSC\ddot{+}P^{\circ}PjC - PsPrP^{\circ}C\ddot{+}PsPSCf$
 $PrPsCfP \gg C - PrP\|CfPiP^{\circ}P \gg P^{\circ}CfC\ddot{+}CfP_{\mu}C\ddot{+}P_{\mu}Pr 1118$ $PrC - C, P_{\mu}PN\ddot{+}P \cdot C\ddot{+}C - P \cdot PSP\ddot{e}PjP\ddot{e}$
 $C, P\ddot{e}PiP^{\circ}PjP\ddot{e}P^{\circ}C\ddot{+}P\ddot{e}C, PjC - PN\ddot{+}.$

$PjC\ddot{+}P^{\circ}PjPeP^{\circ}C \dots$ $PeP \gg C - PSC - C\ddot{+}PSP\ddot{e}C \dots$ $PrPsCfP \gg C - PrP\|P_{\mu}PSC\ddot{+}H$ $CfP_{\mu}C\ddot{+}P_{\mu}PrPrC - C, P_{\mu}PN\ddot{+}$
 $P \cdot P^{\circ}CfC, PsCfPsPICfPIP^{\circ}P \gg P\ddot{e}PSP^{\circ}CfC, CfPiPSC - PrPsP \cdot CfPIP^{\circ}PSPSC\ddot{+}PiC\ddot{+}P_{\mu}PiP^{\circ}C\ddot{+}P^{\circ}C, Cf:$

$- PSP^{\circ}PIP^{\circ}PSC, P^{\circ}P\|CfPiP^{\circ}P \gg CH\ddot{+}PSP^{\circ}$ $PrPsP \cdot P^{\circ}: 10-20$ $PjPi/PePi/PrPsP \pm Cf$ $PIPiC\ddot{+}PsPrPsPIP\|$
 $7-10$ $PrPSC - PI$ ($C, PsP \pm C, Ps 500$ $PjPi/Pj^2/PrPsP \pm Cf$ PI $PiP_{\mu}C\ddot{+}P_{\mu}C\ddot{+}P^{\circ}C \dots$ $CfPiP^{\circ}PSPSC - PSP^{\circ}$
 $PiP \gg PsC\%Cf$ $PiPsPiP_{\mu}C\ddot{+}C \dots$ $PSC - C, C - P \gg P^{\circ}$);

$- PiC - PrC, C\ddot{+}P\ddot{e}PjCfCH\ddot{+}P^{\circ}$ $PrPsP \cdot P^{\circ}: PiPsPIP\ddot{e}PSPSP^{\circ}P \cdot P^{\circ}CfC, PsCfPsPICfPIP^{\circ}C, P\ddot{e}CfCH$
 $PjC - PSC - PjP^{\circ}P \gg CH\ddot{+}PSP^{\circ}$ $P_{\mu}C, P_{\mu}PeC, P\ddot{e}PiPSP^{\circ}$ $PrPsP \cdot P^{\circ}; PSP^{\circ}PiC - PrCfC, P^{\circ}PIC -$
 $C - PSP\ddot{e}PIC - PrCfP^{\circ}P \gg CH\ddot{+}PSPsC - PIC - PrPiPsPIC - PrC - PIPsPSP^{\circ}$ $PjPsP\|P_{\mu}$
 $PePsP \gg P\ddot{e}PiP^{\circ}C, P\ddot{e}CfCH$ $CfPjP_{\mu}P\|P^{\circ}C \dots$ $PIC - Pr 5$ $PrPs 10$ $PjPi/PePi/PrPsP \pm Cf$ ($C, PsP \pm C, Ps$
 250 $PjPi/Pj^2/PrPsP \pm Cf$ PI $PiP_{\mu}C\ddot{+}P_{\mu}C\ddot{+}P^{\circ}C \dots$ $CfPiP^{\circ}PSPSC - PSP^{\circ}PiP \gg PsC\%Cf$ $PiPsPiP_{\mu}C\ddot{+}C \dots$ $PSC -$
 $C, C - P \gg P^{\circ}$).

$P\alpha P^{\circ}C\ddot{+}PjP^{\circ}PePsPeC - PSP_{\mu}C, P\ddot{e}PeP^{\circ}.$

$P\ddot{+}PjC - PsPrP^{\circ}C\ddot{+}PsPS - CfPiPsP \gg CfPeP^{\circ}, PrP \gg C\ddot{+}C\ddot{+}PePsC - PIP \gg P^{\circ}CfC, P\ddot{e}PIC -$
 $PiPsPIC - P \gg CH\ddot{+}PSP_{\mu}C, C\ddot{+}P^{\circ}PSCfPiPsC\ddot{+}C, CfPIP^{\circ}PSPSC\ddot{+}C, P^{\circ}PIP\ddot{e}CfPsPeP^{\circ}$

C,PeP°PSPëPSPSP° P°C,,C-PSPSC-Cl'C,CH.

P™ PsPiPs P±C-PsPrPsCl'C,CrPiPSC-Cl'C,CH PiCtjPë PiPµCtjPsCtjP°P»CHbPSPsPjCr
PiCtjPëPNëPsPjC- P·P°P»PµP¶PSPs PIC-Pr C-PSPPrPëPIC-PrCrP°P»CHbPSPëC...
PsCl'PsP±P»PëPIPsCl'C,PµPNë PiP°C†C-C"PSC,P° PjPsP¶Pµ P±CrC,Pë PIC-Pr 30 % PrPs 80
% (Cr Cl'PµCtjPµPrPSCbPsPjCr bTj" 50 %). PµC-Cl'P»C¶ PsPrPSPsCtjP°P·PsPIPsPiPs
PiCtjPëPNëPsPjCr PrPsP·Pë PiCtjPµPiP°CtjP°C,Cr PjP°PeCl'PëPjP°P»CHbPSC-
PePsPSC†PµPSC,CtjP°C†C-C— PI PiP»P°P·PjC- PeCtjPsPIC- PrPsCl'Cl'PiP°CtjC,CHbCl'Cl'
PiCtjPsC,C¶PiPsPj 3-7 PiPsPrPëPS.

PÿPµCtjP°PiPµPIC,PëC±PSP° P°PeC,PëPIPSC-Cl'C,CH PiCtjPsC¶PIP»C¶C"C,CHbCl'Cl' PI
Cl'PµCtjPµPrPSCbPsPjCr PiCtjPsC,C¶PiPsPj PsPrPSPsPiPs C,PëP¶PSC¶ PiCtjPëPNëPsPjCr
PiCtjPµPiP°CtjP°C,Cr (PIC-Pr PeC-P»CHbPePsC... PrPSC-PI PrPs PrPIPsC...
C,PëP¶PSC-PI).

PµPµCtjC-PsPr PSP°PiC-PIPIPëPIPµPrPµPSPSC¶ P°PjC-PsPrP°CtjPsPSCr
C,CtjPëPIP°P»PëPNë C,P° C...P°CtjP°PeC,PµCtjPëP·CrC"C,CHbCl'Cl' P·PSP°C±PSPsCtj
PjC-P¶C-PSPPrPëPIC-PrCrP°P»CHbPSPsCtj PIP°CtjC-P°P±PµP»CHbPSC-Cl'C,Ctj (PIC-Pr 20
PrPs 100 PrPSC-PI). PµC-Pr C±P°Cl' PiPµCtjCëPëC... PrPSC-PI P»C-PeCrPiP°PSPSC¶
PiCtjPµPiP°CtjP°C, PeCrPjCrP»CtjC"C,CHbCl'Cl' Cr P±C-P»CHbCëPsCl'C,C- C,PeP°PSPëPS
PsCtjPiP°PSC-P·PjCr, PsCl'PsP±P»PëPIPs Cr P¶PëCtjPsPIC-PNë C,PeP°PSPëPSC-.
P·P»C-PjC-PSP°C†C-C¶ CtjPsP·PiPsC±PëPSP°C"C,CHbCl'Cl' C±PµCtjPµP· PeC-P»CHbPeP°
PrPSC-PI, C- Cl'PiC-PIPIC-PrPSPsCëPµPSPSC¶
PSP°PrC...PsPrP¶PµPSPSC¶/PIPëPIPµPrPµPSPSC¶ PiCtjPµPiP°CtjP°C,Cr
PrPsCl'Cl'PiP°C" CtjC-PIPSPsPIP°PiPë PiCtjPsC,C¶PiPsPj PsPrPSPsPiPs P°P±Ps
PeC-P»CHbPePsC... PjC-Cl'Cl'Cl'†C-PI, P·P°P»PµP¶PSPs PIC-Pr PiP°C†C-C"PSC,P°.

PÿP°PeC- C...P°CtjP°PeC,PµCtjPëCl'C,PëPePë PsP±T'CtjCrPSC,PsPICrCtjC,CH
P·P°Cl'C,PsCl'CrPiP°PSPSC¶ PSP°PIP°PSC,P°P¶CrPiP°P»CHbPSPëC... PrPsP· PrP»C¶
CëPIPëPrPePsPiPs PrPsCl'Cl'PiPSPµPSPSC¶ CtjC-PIPSC¶ P·P°C...PsPiP»PµPSPSC¶
PiCtjPµPiP°CtjP°C,Cr C,PeP°PSPëPSP°PjPë, PSPµPsP±C...C-PrPSPsPiPs PrP»C¶
PiCtjPsC¶PICr PNëPsPiPs C,PµCtjP°PiPµPIC,PëC±PSPsC— P°PeC,PëPIPSPsCl'C,C-.

P§P°Cl'C,PëPSP° PNëPsPrCr PIC-PrPrC-P»C¶C"C,CHbCl'Cl' PIC-Pr Cl'PiPsP»CrPePë C,P°
PIPëPIPsPrPëC,CHbCl'Cl' C-P· Cl'PµC±PµCtj Cr PIPëPiP»C¶PrC- PNëPsPrPëPrCr; PiCtjPë
P·P°Cl'C,PsCl'CrPiP°PSPSC- P°PjC-PsPrP°CtjPsPSCr PI PrPsP±PsPIC-PNë PrPsP·C- 200
PjPi PIPëPIPµPrPµPSPSC¶ PNëPsPrCr Cl'C,P°PSPsPIPëC,CH 6 PjPi/24 PiPsPrPëPSPë.
P PµCëC,P° Cl'PiPsP»CrPePë C-, PIC-PrPiPsPIC-PrPSPs, P±C-P»CHbCëP° C±P°Cl'C,PëPSP°
PNëPsPrCr PµPeCl'PeCtjPµC,CrCtjC,CHbCl'Cl' P· PeP°P»PsPj PiC-Cl'P»C¶
PiPµC±C-PSPePsPIPsPiPs C,CtjP°PSCrPiPsCtjC,Cr.

PbCl'PeC-P»CHbPePë C-P· Cl'PµC±PµCtj PµP»C-PjC-PSCrC"C,CHbCl'Cl'
PSPµP·PSP°C±PSP° PeC-P»CHbPeC-Cl'C,CH PiCtjPµPiP°CtjP°C,Cr, PiP°C†C-C"PSC,P°Pj
C-P· PSPëCtjPePsPIPsCtj PSPµPrPsCl'C,P°C,PSC-Cl'C,Ctj PjPsP¶PSP°
P·P°Cl'C,PsCl'PsPICrPiP°C,Pë P·PIPëC±P°PNëPSC- PrPsP·Pë.

PµC-Cl'P»C¶ PIC-PrPjC-PSPë PiCtjPµPiP°CtjP°C,Cr PNëPsPiPs PµP»C-PjC-PSP°C†C-C¶
PiCtjPsPrPsPIP¶CrC"C,CHbCl'Cl' PiCtjPsC,C¶PiPsPj PeC-P»CHbPePsC... PjC-Cl'Cl'Cl'†C-PI.
PÿP»C-Pr P·P°P·PSP°C±PëC,Pë, C%Ps P·P°P»PëCëPePsPIP° P°PeC,PëPIPSC-Cl'C,CH

P P_μP·C₁P»CH₃C,P°C,Pë PrPsC₁P»C-PrP¶P_μPSCH₃ PSP° C,PIP°C₁PëPSP°C... PSP_μ
 C₁PIC-PrC₁P°C,CH₃ P_iC₁Ps C₁PsP·PIPëC,PsPe P±C₁PrCH₃-C₁PePëC... PeP°C₁C₁PëPSPsP_j,
 P_iC₁PsC,P_μ PIC-PrP·PSP°C₁P°P»P°C₁CH₃ PrPsP·PsP·P°P»P_μP¶PSP° C,,PsP»C-PeC₁P»C₁C₁PSPPSP°
 P_iC-P_iP_μC₁P_iP»P°P·C-C₁ C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë. P°P°PSC- P_μC,,P_μPeC,Pë PSP°
 C%PëC,PsP_iPsPrC-P±PSC₁ P·P°P»PsP·C₁ P_i C,PIP°C₁PëPS, P_jPsP¶P»PëP_iPs, P±C₁P»Pë
 P·C₁P_jPsPIP»P_μPSC- P_iP_iP»PëP_iPsP_j P°P_jC-PsPrP°C₁PsPSC₁ PSP° C₁PëPSC,P_μP· C-/P°P±Ps
 PIPëPIC-P»CH₃PSP_μPSPSC₁ C,PëC₁P_μPsC—PrPSPëC... P_iPsC₁P_jPsPSC-PI. P_iC- PrP°PSC-
 P_jP°C₁C,CH₃ PSPëP·CH₃PeC₁ P·PSP°C₁C₁C%C-C₁C,CH₃ PrP»C₁ P·P°C₁C,PsC₁C₁PIP°PSPSC₁
 P_iC₁P_μP_iP°C₁P°C,C₁ C₁ P»CH₃PrP_μP_N.

$$\begin{aligned} & \text{P}^{\circ}\text{C}-\text{PrPsPjP}^{\circ} \text{ PiC}-\text{PiPuCTjC}\ddagger\text{CrC,P}\gg\text{P}\ddot{\text{e}}\text{PIC}-\text{Cl}^{\circ}\text{C,CH} \text{ PrPs P}\mathbb{N}\text{PsPrCr}, \text{P}^{\circ}\text{PjC}-\text{PsPrP}^{\circ}\text{CTjPsPSCr} \\ & \text{P}^{\circ}\text{P}\pm\text{Ps PrPs PsPrPSC}-\text{C}^{\circ}\text{C}-\text{P} \cdot \text{PrPsPiPsPjC}-\text{P}\P\text{PSP}\ddot{\text{e}}\text{C}\dots \text{CTjPuC}\ddagger\text{PsPIP}\ddot{\text{e}}\text{PS}. \end{aligned}$$

P"CTġCíPíPëPN₂ C,P° C,CTġP_μC,C-PN₂B C,CTġPëPjP_μCíC,CTġPë PIP°PíC-C,PSPsCíC,C-.

P_μP_μCTġC-PsPr P»P°PeC,P°C†C-C—.

P_μPsPjP±C-PSP°C†C-C‡ P· PíCTġP_μPíP°CTġP°C,P°PjPë, P·PrP°C,PSPëPjPë PIPëPeP»PëPeP°C,Pë PíP°CTġPsPeCíPëP·PjP°P»CH₂PSCí C€P»CíPSPsC†PePsPICí C,P°C...C-PeP°CTġPrC-CT C,PëPíCí B«*torsades de pointes*B» (P·P° PIPëPSC‡C,PePsPj PíCTġPsC,PëPíP°CTġP°P·PëC,P°CTġPSPëC... P·P°CíP_μP±C-PI, PSP_μPN₂CTġPsP»P_μPíC,PëPeC-PI C,P° PjP_μC,P°PrPsPSCí):

-B B B P°PSC,PëP°CTġPëC,PjC-C†PSC- P·P°CíP_μP±Pë Ia PeP»P°CíCí (C...C-PSC-PrPëPS, PíC-PrCTġPsC...C-PSC-PrPëPS, PrPëP·PsPíC-CTġP°PjC-Pr);

-B B B P°PSC,PëP°CTġPëC,PjC-C†PSC- P·P°CíP_μP±Pë III PeP»P°CíCí (CíP_μC,P°P»PsP», PrPsC,,P_μC,PëP»C-Pr, C-P±CíC,PëP»C-Pr);

-B B B C-PSC€C- P»C-PeP°CTġCíCH₂PeC- P·P°CíP_μP±Pë, C,P°PeC- C‡Pe CíPíPsP»CíPePë PjPëC€TM C‡PeCí, P±P_μPíCTġPëPrPëP», C†PëP·P°PíCTġPëPr, C†PëC,P°P»PsPíCTġP°Pj, P_μCíC†PëC,P°P»PsPíCTġP°Pj, PrPëC,,P_μPjP°PSC-P», PrPsP»P°CíP_μC,CTġPsPS PI/PI, PrPsPjPíP_μCTġPëPrPsPS, PrCTġPsPSP_μPrP°CTġPsPS, P_μCTġPëC,CTġPsPjC-C†PëPS PI/PI, P»P_μPIP_μC,,P»PsPeCíP°C†PëPS, PjP_μC...C-C,P°P·PëPS, PjC-P·PsP»P°CíC,PëPS, PjPsPeCíPëC,,P»PsPeCíP°C†PëPS, PíCTġCíPeP°P»PsPíCTġPëPr, CíPíC-CTġP°PjC-C†PëPS PI/PI, C,PsCTġP_μPjC-C,,P_μPS, PIC-PSPeP°PjC-PS PI/PI (PrPëPI. CTġPsP·PrC-P» B«P'P·P°C"PjPsPrC-C‡ P· C-PSC€PëPjPë P»C-PeP°CTġCíCH₂PePëPjPë P·P°CíP_μP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-PN₂B»);

-B B B C,P_μP»P°PíCTġP_μPíC-CTġ;

-B B B PePsP±C-C†PëCíC,P°C,.

P'P·P°C"PjPsPrC-C‡ P· C-PSC€PëPjPë P»C-PeP°CTġCíCH₂PePëPjPë P·P°CíP_μP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-PN₂.

P_μPSC,PëP°CTġPëC,PjC-C†PSC- PíCTġP_μPíP°CTġP°C,Pë.

P'P°PíP°C,Ps P°PSC,PëP°CTġPëC,PjC-C†PSPëC... PíCTġP_μPíP°CTġP°C,C-PI PíCTġPëPíPSC-C†CíCT₂C,CH CíP_μCTġC†P_μPIPëPN₂ P°PIC,PsPjP°C,PëP·Pj, PíCTġPsPIC-PrPSC-CíC,CH C,P° CíPePsCTġPsC,P»PëPIC-CíC,CH PjC-PsPeP°CTġPrP°.

P_μPrPSPsC†P°CíPSP_μ P·P°CíC,PsCíCíPIP°PSPSC‡ P°PSC,PëP°CTġPëC,PjC-C†PSPëC... P·P°CíP_μP±C-PI, C‡PeC- PSP°P»P_μP¶P°C,CH PrPs CTġC-P·PSPëC... PeP»P°CíC-PI, PjPsP¶P_μ P±CíC,Pë PePsCTġPëCíPSPëPj, P°P»P_μ PSP°PN₂C†P°CíC,C-C€P_μ P»C-PeCíPIP°PSPSC‡ C,P°PePsCT₂ PePsPjP±C-PSP°C†C-C"CT PíPsC,CTġP_μP±CíC" CTġP_μC,P_μP»CH₂PSPsPíPs PeP»C-PSC-C†PSPsPíPs C,P° P·P_μP" PjPsPSC-C,PsCTġCíPIP°PSPSC‡. P_μPrPSPsC†P°CíPSP_μ P·P°CíC,PsCíCíPIP°PSPSC‡ P°PSC,PëP°CTġPëC,PjC-C†PSPëC... P·P°CíP_μP±C-PI, C‡PeC- PjPsP¶CíC,CH C-PSPrCíPeCíPIP°C,Pë PIPëPSPëPePSP_μPSPSC‡ B«*torsades de pointes*B» (C,P°PePëC... C‡Pe P°PjC-PsPrP°CTġPsPS, PrPëP·PsPíC-CTġP°PjC-Pr, C...C-PSC-PrPëPSPsPIC-CíPíPsP»CíPePë, CíP_μC,P°P»PsP» C,P° C-PSC€C-), PíCTġPsC,PëPíPsPeP°P·P°PSP_μ.

P_μPrPSPsC†P°CíPSP_μ P·P°CíC,PsCíCíPIP°PSPSC‡ P°PSC,PëP°CTġPëC,PjC-C†PSPëC... P·P°CíP_μP±C-PI PsPrPSPsPíPs C- C,PsPíPs P¶ PeP»P°CíCí PSP_μ CTġP_μPePsPjP_μPSPrPsPIP°PSP_μ, PsPeCTġC-Pj PIPëPSC‡C,PePsPIPëC... PIPëPíP°PrPeC-PI, PsCíPeC-P»CH₂PePë C,P°PeP_μ

P»C-PeCfPIP°PSPSCl P·P±C-P»CHC€CfC” CḡPëP·PëPe PIPëPSPëPePSPµPSPSCl
PeP°CḡPrC-P°P»CHPSPëC... PîPsP±C-C†PSPëC... PµC„PµPeC,C-PI.

PhPrPSPsC†P°CfPSPµ P·P°CfC,PsCfCfPIP°PSPSCl P°PjC-PsPrP°CḡPsPSCf P·
P»C-PeP°CḡCfCHPePëPjPë P·P°CfPsP±P°PjPë, CllPeC- C†PëPSClC,CH PSPµPiP°C,PëPIPScf
C-PSPsC,CḡPsPiPSCf PrC-CH, CfPiCḡPëCllC” P±CḡP°PrPëPeP°CḡPrC-C— C,P°/P°P±Ps
CfPiPsPIC-P»CHPSCfC” P°C,CḡC-PsPIPµPSC,CḡPëPeCfP»CllCḡPSCf
PiCḡPsPIC-PrPSC-CfC,CH, C,PsPjCf PîPsC,CḡPµP±CfC” CḡPµC,PµP»CHPSPsPiPs
PeP»C-PSC-C†PSPsPiPs C,P° P·PḡP” PjPsPSC-C,PsCḡCfPIP°PSPSCl.

P>C-PeP°CḡCfCHPeC- P·P°CfPsP±Pë, C%Ps PjPsP¶CfC,CH C-PSPrCfPeCfPIP°C,Pë
CḡPsP·PIPëC,PsPe B«torsades de pointesB».

P|Cll CfPµCḡPNëPsP·PSP° P°CḡPëC,PjC-Cll PjPsP¶Pµ P±CfC,Pë C-PSPrCfPePsPIP°PSP°
PrPµCllPePëPjPë P»C-PeP°CḡCfCHPePëPjPë P·P°CfPsP±P°PjPë, PSPµP·P°P»PµP¶PSPs PIC-Pr
C,PsPiPs, C†Pë PSP°P»PµP¶P°C,CH PIPsPSPë PrPs P°PSC,PëP°CḡPëC,PjC-C†PSPëC...
PiCḡPµPiP°CḡP°C,C-PI, C†Pë PSC-. PŸPiCḡPëCllC,P»PëPIPëPjPë C„P°PeC,PsCḡP°PjPë C”
PiC-PîPsPeP°P»C-C”PjC-Cll (PrPëPI. PiC-PrCḡPsP·PrC-P» B«PµCḡPµPiP°CḡP°C,Pë, C%Ps
P·PSPëP¶CfCHC,CH PIPjC-CfC, PeP°P»C-CHB»), P±CḡP°PrPëPeP°CḡPrC-Cll (PrPëPI.
PiC-PrCḡPsP·PrC-P» B«PµCḡPµPiP°CḡP°C,Pë, C%Ps CfPiPsPIC-P»CHPSCfCHC,CH
CfPµCḡC†PµPIPëPNë CḡPëC,PjB») P°P±Ps PICḡPsPrP¶PµPSPµ C†Pë PSP°P±CfC,Pµ
PiPsPiPµCḡPµPrPSCBPs C-CfPSCfCHC†Pµ PîPsPrPsPIP¶PµPSPSCl C-PSC,PµCḡPIP°P»Cf QT.

P”Ps P»C-PeP°CḡCfCHPePëC... P·P°CfPsP±C-PI, CllPeC- PjPsP¶CfC,CH
PsP±CfPjPsPIP»CHPIP°C,Pë CḡPsP·PIPëC,PsPe B«torsades de pointesB», PSP°P»PµP¶P°C,CH,
P·PsPeCḡPµPjP°, P°PSC,PëP°CḡPëC,PjC-C†PSC- PiCḡPµPiP°CḡP°C,Pë Ia C- III PeP»P°CfC-PI C,P°
PrPµCllPeC- PSPµPNëCḡPsP»PµPiC,PëPePë. P”P»Cll PrPsP»P°CfPµC,CḡPsPSCf,
PµCḡPëC,CḡPsPjC-C†PëPSCf, CfPiC-CḡP°PjC-C†PëPSCf C,P° PIC-PSPeP°PjC-PSCf C,P°PeP°
PIP·P°C”PjPsPrC-Cll PIPëPSPëPeP°C” C,C-P»CHPePë PiCḡPë P·P°CfC,PsCfCfPIP°PSPSC-
P»C-PeP°CḡCfCHPePëC... C„PsCḡPj PrP»Cll PIPSCfC,CḡC-C€PSCBPsPIPµPSPSPsPiPs
PIPIPµPrPµPSPSCl.

PhPrPSPsC†P°CfPSPµ P·P°CfC,PsCfCfPIP°PSPSCl PrPIPsC... P»C-PeP°CḡCfCHPePëC...
P·P°CfPsP±C-PI, PePsP¶PµPS P· CllPePëC... C” PiCḡPµPiP°CḡP°C,PsPj, C%Ps CfPiCḡPëCllC”
PIPëPSPëPePSPµPSPSCf B«torsades de pointesB», P·P°P·PIPëC†P°PNë
PiCḡPsC,PëPiPsPeP°P·P°PSPµ.

PµCḡPsC,Pµ PjPµC,P°PrPsPS, PiCḡPsC,PëPiP°CḡP°P·PëC,P°CḡPSC- PiCḡPµPiP°CḡP°C,Pë
(PiP°P»PsC„P°PSC,CḡPëPS, P»CHPjPµC„P°PSC,CḡPëPS, PiPµPSC,P°PjC-PrPëPS) C,P°
PSPµPNëCḡPsP»PµPiC,PëPePë, P·P°CfC,PsCfCfPIP°PSPSCl CllPePëC... PIPIP°P¶P°C”C,CHCfCll
P°P±CfPsP»CHC,PSPs PSPµPsP±C...C-PrPSPëPj, PSPµ PiCḡPsC,PëPiPsPeP°P·P°PSC-, P°P»Pµ
PSPµ CḡPµPePsPjPµPSPrCfCHC,CHCfCll PrPs P·P°CfC,PsCfCfPIP°PSPSCl
PsPrPSPsC†P°CfPSPs P· C-PSC€PëPjPë P·P°CfPsP±P°PjPë, C%Ps CfPiCḡPëCllCHC,CH
PIPëPSPëPePSPµPSPSCf B«torsades de pointesB».

PµCḡPµPiP°CḡP°C,Pë, C%Ps CfPiPsPIC-P»CHPSCfCHC,CH CfPµCḡC†PµPIPëPNë CḡPëC,Pj.

P’P°PiP°C,Ps P»C-PeP°CḡCfCHPePëC... P·P°CfPsP±C-PI PjPsP¶CfC,CH
PsP±CfPjPsPIP»CHPIP°C,Pë P±CḡP°PrPëPeP°CḡPrC-CH, P·PsPeCḡPµPjP°,
P°PSC,PëP°CḡPëC,PjC-C†PSC- PiCḡPµPiP°CḡP°C,Pë Ia PeP»P°CfCf, P±PµC,P°-
P±P»PsPeP°C,PsCḡPë, PrPµCllPeC- P°PSC,PëP°CḡPëC,PjC-C†PSC- PiCḡPµPiP°CḡP°C,Pë III
PeP»P°CfCf, PrPµCllPeC- P±P»PsPeP°C,PsCḡPë PeP°P»CHC†C-C”PIPëC... PeP°PSP°P»C-PI,

РіСґРµРіР°СґР°С,Рё РSP°РіРµСґСґС,СІРSPeРё, РіС-Р»РsРeР°СґРіС-PS С,Р°
Р°PSC,РёС...РsР»С-РSPµСґС,РµСґР°Р°PSC- РіСґРµРіР°СґР°С,Рё.

Р°С,,РµРeС,Рё Р°РјС-РsРrР°СґРsPSCр РSP° С-PSCёС- Р»С-РeР°СґСґСРeС- Р°СґРsР±Рё.

РґРјС-РsРrР°СґРsPS С-/Р°Р±Рs РNёРsРіРs РјРµС,Р°Р±РsР»С-С,,
РrРµРµС,РёР»Р°РјС-Р°РјС-РsРrР°СґРsPS, С-РSPiС-Р±СґСґС,Сґ СYP1A1, CYP1A2, CYP3A4, CYP2C9,
CYP2D6 С,Р° Р-РіР»»С-РeРsРіСґРsС,РµС—PS С,Р° РјРsР¶СґС,Сґ Р°Р±С-Р»СґСёСґРіР°С,Рё
РµРeСґРіРsР°РёСґС-Сґ С—С...PSC-С... СґСґР±СґС,СґР°С,С-PI. Р°СґР°С...РsРiСґСґС±Рё
РrРsРiРіСґ С,СґРёРіР°Р»Р»»С-СґС,Сґ РµС,,РµРeС,Сґ Р°РјС-РsРrР°СґРsPSCр, С,Р°РeС-
РiР°Р°С»РјРsРrС-С— РјРsР¶СґС,Сґ СґРіРsСґС,РµСґС-РіР°С,РёСґСґ РiРіСґРsРrРsРiР¶
РeС-Р»СґРeРsС... РјС-СґСґСґС-PI РіС-СґР»Сґ РіСґРёРіРёРёРSPµPSPSCі Р»С-РeСґРіР°С»PSPSCі
Р°РјС-РsРrР°СґРsPSPsРј.

Р°С,,РµРeС,Рё С-PSCёРёС... Р»С-РeР°СґСґСРeРёС... Р°СґРsР±С-PI РSP°
Р°РјС-РsРrР°СґРsPS.

Р†РSPiС-Р±С-С,РsСґРё СYP3A4 С,Р° CYP2C8 РіРsС,РµPSCґС-РNёРSPs РјРsР¶СґС,Сґ
РіСґРёРіРiPSC-СґСґРіР°С,Рё РјРµС,Р°Р±РsР»С-Р°Рј Р°РјС-РsРrР°СґРsPSCр С-, С,Р°РeРёРј
С±РёРSPsРј, Р°Р±С-Р»СґСёСґРіР°С,Рё РNёРsРіРs РµРeСґРіРsР°РёСґС-Сґ.

Р†РSPiС-Р±С-С,РsСґРё СYP3A4 (РSP°РіСґРёРeР»Р°Р, РіСґРµРNёРіС,,СґСґС,РsРiРёРNё СґС-Рe
С,Р° РrРµСІРeС- Р»С-РeР°СґСґСґСРeС- Р°СґРsР±С), СІРe РіСґР°РіРёР»Р»Рs, РSPµ СґР»С-Рr
Р°СґСґС,РsСґРsРiСґРіР°С,Рё РіС-Рr С±Р°Сґ Р»С-РeСґРіР°С»PSPSCі Р°РјС-РsРrР°СґРsPSPsРј.

РµСґРsС,РёРіРsРeР°Р°Р°PSC- РeРsРјР±С-РSP°СґС-С— (РrРёPI. СґРsР°РrС-Р»
B«РµСґРsС,РёРіРsРeР°Р°Р°PSPSCіB»).

Р»С-РeР°СґСґСґСРeС- Р°СґРsР±С, СІРeС- РјРsР¶СґС,Сґ С-РSPrСґРeСґРіР°С,Рё
РiРёРSPёРePSPµPSPSCі B«torsades de pointesB» (Р° РiРёPSCіС,РeРsРј
РіСґРsС,РёРіР°СґР°Р°РeС,Р°СґРSPёС... РіСґРµРіР°СґР°С,С-PI, РSPµРNёСґРsР»РµРіС,РёРeС-PI
С,Р° РјРµС,Р°РrРsPSCр, РrРёPI. РіС-РrСґРsР°РrС-Р» B«РµРµ СґРµРeРsРјРSPrРsРiР°PSC-
РeРsРјР±С-РSP°СґС-С—B»);

- Р°PSC,РёР°СґРёС,РјС-С±PSC- Р°СґРsР±С Ia РeР»Р°СґСґ (С...С-PSC-РrРёPS,
РiС-РrСґРsС...С-PSC-РrРёPS, РrРёР°РsРіС-СґР°РјС-Рr);

- Р°PSC,РёР°СґРёС,РјС-С±PSC- Р°СґРsР±С III РeР»Р°СґСґ (РrРsС,,РµС,РёР»С-Рr,
С-Р±СёС,РёР»С-Рr, СґРsС,Р°Р»РsР»);

- С-PSCёС- Р»С-РeР°СґСґСґСРeС- Р°СґРsР±С, С,Р°РeС- СІРe: СґРіРsР»СёРeРё
РјРeСёґ™ СІРeСё, Р±РµРіСґРёРrРёР»», СґРёР°РіРіСґРёРr, СґРёС,Р°Р»РsРіСґР°Рј,
РµСґСґРёС,Р°Р»РјРјР°PSC-Р», РrРsР»Р°СґРµС,СґРsPS PI/PI,
РrРsРјРµСґРrРsPS, РrСґРsPSPµРrР°СґРsPS, РµСґРёС,СґРsРјС-СґРёPS PI/PI,
Р»РµРiРsС,,Р»РeСґР°СґРёPS, РјРµС...С-С,Р°Р°РёPS, РјС-Р°РsР»Р°СґС,РёPS, PIC-РSPeР°РјС-PS
PI/PI, РјРsРeСґРёС,,Р»РsРeСґР°СґРёPS, РіСґСёРeР°Р»РsРіСґРёРr, СґРіС-СґР°РјС-СґРёPS PI/PI,
С,РsСґРµРјРјС-С,,РµPS.

Р—Р±С-Р»СґСёРµPSPSCі СґРёР°РeСґ СґРsР°РiРёС,РeСґ СёР»СґРsС±РeРsРiРёС...
Р°СґРёС,РјС-РNё, РsСґРsР±С»РёРs B«torsades de pointesB».

РјРµР»Р»Р°РіСґРµРiС-Сґ. Р РsР»Р°РrРё Р°PIC,РsРјР°С,РёР°РјСґ С,Р°

PiC7PsPIC-PrPSPsCfC,C- PeP°C7PrC-PsPjC-PsC†PëC,C-PI C-P· C7PëP·PëPePsPj
PIPëPSPëPePSPµPSPSCl PSP°PrPjC-C7PSPsC— P±C7P°PrPëPeP°C7PrC-C—.

*PµPsP±C-C†PëCfC,P°C., P., C7PëP·PëPe P·P±C-P»CHC€PµPSPSCl C†P°CfC,PsC,Pë
P°PjC-PsPrP°C7PsPS-C-PSPrCfPePsPIP°PSPëC... PiPsP±C-C†PSPëC... PµC,,PµPeC,C-PI
PIPSP°CfP»C-PrPsPe P·PSPëP¶PµPSPSCl PjPµC,P°P±PsP»C-P·PjCf.*

PkPµ C7PµPePsPjPµPSPPrPsPIP°PSC- PePsPjP±C-PSP°C†C-C— (PrPëPI. C7PsP·PrC-P»
B«PhCfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfCfPIP°PSPSClB»).

*PŸPsC,,PsCfP±C¿PIC-C7. PhPrPSPsC†P°CfPSPµ P·P°CfC,PsCfCfPIP°PSPSCl
P°PjC-PsPrP°C7PsPSCr P· P»C-PeP°C7CfCHPePëPjPë P·P°CfPsP±P°PjPë, ClPeC-
PjC-CfC,ClC,CH CfPsC,,PsCfP±CfPIC-C7, PjPsP¶Pµ CfPiC7PëC†PëPSPëC,Pë
C,ClP¶PeCf CfPëPjPiC,PsPjP°C,PëC†PSCr P±C7P°PrPëPeP°C7PrC-C7. PŸP»C-Pr
P·P°CfC,PsCfPsPICfPIP°C,Pë P»PëC€Pµ B Cf C7P°P·C- PIC-PrCfCfC,PSPsCfC,C-
P°P»CHC,PµC7PSP°C,PëPIPSPëC... PjPµC,PsPrC-PI P»C-PeCfPIP°PSPSCl.
P PµC,PµP»CHPSPëPNë PjPsPSC-C,PsC7PëPSPi C7PµPePsPjPµPSPPrPsPIP°PSPëPNë PiC7Pë
PsPrPSPsC†P°CfPSPsPjCf P·P°CfC,PsCfCfPIP°PSPSC- C†PëC...
P»C-PeP°C7CfCHPePëC... P·P°CfPsP±C-PI (PrPëPI. C7PsP·PrC-P»
B«PhCfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfCfPIP°PSPSClB»).*

*PŸC¿P±CfC,C7P°C,Pë CYP3A4. PhPjC-PsPrP°C7PsPS C" C-PSPiC-P±C-C,PsC7PsPj CYP3A4 C,P°
PiC-PrPIPëC%CrC" PePsPSC†PµPSC,C7P°C†C-C— CfCfP±CfC,C7P°C,C-PI CYP3A4 PI
PiP»P°P·PjC- PeC7PsPIC-, C%Ps PiC7PëP·PIPsPrPëC,CH PrPs PiPsC,PµPSC†C-PNëPSPsPiPs
P·P±C-P»CHC€PµPSPSCl C,PsPeCfPëC†PSPsCfC,C- C†PëC... CfCfP±CfC,C7P°C,C-PI.*

*PiPëPeP»PsCfPiPsC7PëPS. P—P±C-P»CHC€PµPSPSCl CfPëC7PsPIP°C,PePsPIPëC...
PePsPSC†PµPSC,C7P°C†C-PNë C†PëPeP»PsCfPiPsC7PëPSCr C†PµC7PµP· P·PSPëP¶PµPSPSCl
PNëPsPiPs PjPµC,P°P±PsP»C-P·PjCf PI PiPµC†C-PSC†C-, C-P· C7PëP·PëPePsPj PiC7PsClPICf
PSPµC,,C7PsC,PsPeCfPëC†PSPëC... PµC,,PµPeC,C-PI.*

*PµC-Pr C†P°Cf P»C-PeCfPIP°PSPSCl P°PjC-PsPrP°C7PsPSPsPj CfP»C-Pr PiC7PsPIPsPrPëC,Pë
PeC-P»CHPeC-CfPSPµ PIPëP·PSP°C†PµPSPSCl PePsPSC†PµPSC,C7P°C†C-PNë
C†PëPeP»PsCfPiPsC7PëPSCr PI PeC7PsPIC-, PjPsPSC-C,PsC7CfPIP°PSPSCl PSPëC7PePsPIPsC—
C,,CfPSPeC†C-C— C,P° PePsC7PëPiCfPIP°PSPSCl PrPsP·Pë C†PëPeP»PsCfPiPsC7PëPSCr.*

*P"PëP»C,C-P°P·PµPj PrP»Cl C-PSë7™ C"PeC†C-PNë. P PëP·PëPe C7PsP·PIPëC,PeCf
P±C7P°PrPëPeP°C7PrC-C— C,P° P°C,C7C-PsPIPµPSC,C7PëPeCfP»ClC7PSPsC—
P±P»PsPeP°PrPë.*

*PiPeC%Ps P·P°CfC,PsCfCfPIP°PSPSCl C†C-C"C— PePsPjP±C-PSP°C†C-C— CfPSPëPePSCrC,Pë
PSPµ PjPsP¶PSP°, CfP»C-Pr P·PrC-PNëCfPSC7PIP°C,Pë C7PµC,PµP»CHPSPëPNë
PeP»C-PSC-C†PSPëPNë PSP°PiP»ClPr C,P° P±PµP·PiPµC7PµC7PIPSPµ
PjPsPSC-C,PsC7CfPIP°PSPSCl P·PµP".*

*PµC-PSPiPsP»C-PjPsPr. PµPsC,PµPSC†C-C7PIP°PSPSCl C-PSPrCfPePsPIP°PSPëC...
P±C7P°PrPëPeP°C7PrC-C"C7 PµC,,PµPeC,C-PI, PjPsP¶P»PëPIPs P· P»PµC,P°P»CHPSPëPj
PSP°CfP»C-PrPePsPj. PhCfPsP±P»PëPIPs C†Pµ P°PeC,CfP°P»CHPSPs PrP»Cl P±PµC,P°-
P±P»PsPeP°C,PsC7C-PI, ClPeC- C-PSPiC-P±CfC7C,CH PjPµC...P°PSC-P·PjPë
P°PrC7PµPSPµC7PiC-C†PSPsC— PePsPjPiPµPSCfP°C†C-C—. PµC-CfP»Cl
P·P°CfC,PsCfCfPIP°PSPSCl PiPµC7C€PsC— PrPsP·Pë PiC7PµPiP°C7P°C,Cf PiPsPIPëPSPµPS*

P·PrC-PN₂Cl⁺PSC₂PIP^oC, PēCl⁺CH₂ PeP»C-PSC-C⁺PSPēPN₂ PSP^oPiP»C₂IPr C, P^o
P±PμP·PiPμC₂PμC₂PIPS₂PēPN₂ PjPsPSC-C, PsC₂PēPSPI P·P₂P^o PIPiC₂PsPrPsPIP₂ 24 PiPsPrPēPS.

P'PμC₂P^oPiP^oPjC-P» PrP»C₂ C-PSē₂™ C''PeC⁺C-PN₂. P PēP·PēPe C₂PsP·PIPēC, PeC⁺
P±C₂P^oPrPēPeP^oC₂PrC-C— C, P^o P^oC, C₂C-PsPIPμPSC, C₂PēPeC⁺P»C₂C₂PSPsC—
P±P»PsPeP^oPrPē.

PiPeC%₀Ps P·P^oCl⁺C, PsCl⁺C⁺PIP^oPSPSC₂ C⁺C-C''C— PePsPjP±C-PSP^oC⁺C-C— C⁺PSPēPePSC⁺C, Pē
PSPμ PjPsP₂PSP^o, PSP^oPrP·PIPēC⁺P^oPN₂PSPs PIP^oP₂P»PēPIPs P·PrC-PN₂Cl⁺PSC₂PIP^oC, Pē
C₂PμC, PμP»CH₂PSPēPN₂ PeP»C-PSC-C⁺PSPēPN₂ PSP^oPiP»C₂IPr C, P^o P±PμP·PiPμC₂PμC₂PIPS₂μ
PjPsPSC-C, PsC₂C⁺PIP^oPSPSC₂ P·P₂P^o.

PμC₂PsC, PēPiP^oC₂P^o·PēC, P^oC₂PSC- PiC₂PμPiP^oC₂P^oC, Pē, C₂IPeC- PjPsP₂C₂C, CH₂
C-PSP^oC₂PeC₂PIP^oC, Pē B«torsades de pointesB» (PiP^oP»PsC₂, P^oPSC, C₂PēPS,
P»C₂PjPμC₂, P^oPSC, C₂PēPS, PiPμPSC, P^oPjC-PrPēPS). P—P±C-P»CH₂CēPμPSPSC₂ C₂PēP·PēPeC⁺
C₂PsP·PIPēC, PeC⁺CēP»C⁺PSPsC⁺PePsPIPēC... P^oC₂PēC, PjC-PN₂, PsCl⁺PsP±P»PēPIPs B«torsades
de pointesB». PiPeC%₀Ps PjPsP₂P»PēPIPs, Cl⁺P»C-Pr PIC-PrPjC-PSPēC, Pē PsPrPēPS C-P·
PrPIPsC... PiC₂PμPiP^oC₂P^oC, C-PI. PiPeC%₀Ps P·P^oCl⁺C, PsCl⁺C⁺PIP^oPSPSC₂ C⁺C-C''C—
PePsPjP±C-PSP^oC⁺C-C— C⁺PSPēPePSC⁺C, Pē PSPμ PjPsP₂PSP^o, PSP^oPrP·PIPēC⁺P^oPN₂PSPs
PIP^oP₂P»PēPIPs PIPēPePsPSP^oC, Pē PiPsPiPμC₂PμPrPSC₂ PsC⁺C-PSPeC⁺C-PSC, PμC₂PIP^oP»C⁺
QT C, P^o P·PrC-PN₂Cl⁺PSPμPSPSC₂ PjPsPSC-C, PsC₂C⁺PIP^oPSPSC₂ P·P₂P^o.

PkPμPN₂C₂PsP»PμPiC, PēPePē, C₂IPeC- PjPsP₂C₂C, CH₂ C-PSP^oC₂PeC₂PIP^oC, Pē B«torsades de
pointesB» (P^oPjC-Cl⁺C₂P»CH₂PiC₂PēPr, C...P»PsC₂PiC₂PsPjP^o·PēPS, C⁺C-P^oPjPμPjP^o·PēPS,
PrC₂PsPiPμC₂PēPrPsP», C₂P»C₂PiPμPSC, PēPeCl⁺PsP», C₂P»C₂C₂, PμPSP^o·P·PēPS,
PiP^oP»PsPiPμC₂PēPrPsP», P»PμPIPsPjPμPiC₂PsPjP^o·PēPS, PiC-PjPsP·PēPr,
PiC-PiP^oPjPiPμC₂PsPS, PiC-PiPsC, C-P^o·PēPS, Cl⁺PμC₂C, PēPSP^oPrPsP», Cl⁺C₂P»CH₂PiC-C₂PēPr,
Cl⁺C₂P»CH₂C, PsPiC₂PēPr, C, C-P^oPiC₂PēPr, P·C₂PeP»PsPiPμPSC, PēPeCl⁺PsP»).
P—P±C-P»CH₂CēPμPSPSC₂ C₂PēP·PēPeC⁺ C₂PsP·PIPēC, PeC⁺CēP»C⁺PSPsC⁺PePsPIPēC...
P^oC₂PēC, PjC-PN₂, PsCl⁺PsP±P»PēPIPs torsades de pointes.

P₂PμC, P^oPrPsPS. P—P±C-P»CH₂CēPμPSPSC₂ C₂PēP·PēPeC⁺ C₂PsP·PIPēC, PeC⁺
CēP»C⁺PSPsC⁺PePsPIPēC... P^oC₂PēC, PjC-PN₂, PsCl⁺PsP±P»PēPIPs torsades de pointes.

PαC, PsC₂C...C-PSPsP»PsPSPē, P·P^o PIPēPSC₂IC, PePsPj P»PμPIPsC₂, P»PsPeCl⁺P^oC⁺PēPSC⁺C, P^o
PjPsPeCl⁺PēC₂, P»PsPeCl⁺P^oC⁺PēPSC⁺ (PiC₂PsC, PēPiPsPeP^o·P^oPSC- PePsPjP±C-PSP^oC⁺C-C—).
P—P±C-P»CH₂CēPμPSPSC₂ C₂PēP·PēPeC⁺ C₂PsP·PIPēC, PeC⁺CēP»C⁺PSPsC⁺PePsPIPēC...
P^oC₂PēC, PjC-PN₂, PsCl⁺PsP±P»PēPIPs torsades de pointes.

PŸC, PēPjC₂P»C₂CH₂C⁺C- PiPsCl⁺P»P^oP±P»C₂CH₂C⁺C- P·P^oCl⁺PsP±Pē.
PμC-PrPIPēC%₀PμPSPēPN₂ C₂PēP·PēPe PIPēPSPēPePSPμPSPSC₂ CēP»C⁺PSPsC⁺PePsPIPēC...
P^oC₂PēC, PjC-PN₂, PsCl⁺PsP±P»PēPIPs CēP»C⁺PSPsC⁺PePsPIPsC— C, P^oC...C-PeP^oC₂PrC-C—
torsades de pointes (PiC₂Pē C⁺CH₂PsPjC⁺ PiC₂PsPIPsPeC⁺C₂PēPj C₂, P^oPeC, PsC₂PsPj
PIPēCl⁺C, C⁺PiP^oC'' PiC-PiPsPeP^o·P»C-C''PjC-C₂). PμPμC₂PμPr P·P^oCl⁺C, PsCl⁺C⁺PIP^oPSPSC₂IPj
PiC₂PμPiP^oC₂P^oC, C⁺ PiPsC, C₂C-P±PSPs PiC₂PsPIPμCl⁺C, Pē PePsC₂PμPeC⁺C-C₂ P±C⁺PrCH₂-
C₂IPePsC— PiC-PiPsPeP^o·P»C-C''PjC-C— C, P^o P·PrC-PN₂Cl⁺PSC₂PIP^oC, Pē PjPsPSC-C, PsC₂PēPSPI
P·P₂P^o C, P^o PeP»C-PSC-C⁺PSPēPN₂ PSP^oPiP»C₂IPr C₂P^o·PsPj C-P· PePsPSC, C₂PsP»PμPj
C₂C-PIPSC-PI PμP»PμPeC, C₂PsP»C-C, C-PI.

PαC-PrP^oPeCl⁺PsPjC-C⁺PēPS. PμC-PrPIPēC%₀PμPSPSC₂ PePsPSC⁺PμPSC, C₂P^oC⁺C-PN₂
C₂, C-PrP^oPeCl⁺PsPjC-C⁺PēPSC⁺ PI PiP»P^o·PjC- PeC₂PsPIC-.

РлPsPjP±C-PSP°C†C-C—, CлPeC- PIPëPjP°PiP°CHC,CH P·P°PiPsP±C-P¶PSPëC...
P·P°C...PsPrC-PI PïCHPë P·P°C†C,PsC†C†PIP°PSPSC-.

PŸC¿P±C†C,CŸP°C,Pë P -PiP»C-PePsPiCHPsC,PµC—PSC¿. PhPjC-PsPrP°CHPsPS C”
C-PSPiC-P±C-C,PsCHPsPj P -PiP»C-PePsPiCHPsC,PµC—PSC†. PhC†C-PeC†C”C,CHC†Cл, C%Ps
PïCHPë PsPrPSPsC†P°C†PSPsPjC† P·P°C†C,PsC†C†PIP°PSPSC- C-P· C†C†P±C†C,CŸP°C,P°PjPë P -
PiP»C-PePsPiCHPsC,PµC—PSC† P±C†PrPµ P·P±C-P»CHC€C†PIP°C,PëC†Cл C—C...
PePsPSC†PµPSC,CŸP°C†C-Cл C† PeCHPsPIC-.

PµCHPµPiP°CHP°C,Pë PSP°PiPµCHC†C,CлPSPePë. PµCHPëPiPSC-C†PµPSPSCл
P°PIC,PsPjP°C,PëP·PjC† (PSP°PrPjC-CŸPSP° P±CHP°PrPëPeP°CHPrC-Cл) C,P°
PïPsCHC†C€PµPSPSCл P°C,CHC-PsPiPµPSC,CHPëPeC†P»CлCHPsPSC—
PïCHPsPIC-PrPSPsC†C,C-.

PµCHPë P·P°C†C,PsC†C†PIP°PSPSC- PrPëPiPsPeC†PëPSC† C†PïPsC†C,PµCHC-PiP°C”C,CHC†Cл
P·P±C-P»CHC€PµPSPSCл CHC-PIPSCл PrPëPiPsPeC†PëPSC† PI PeCHPsPIC- C†PµCHPµP·
P·PjPµPSC€PµPSPSCл PeP»C-CŸPµPSC†C† PrPëPiPsPeC†PëPSC†, C%Ps PïPsC,CHPµP±C†C”
PjPsPSC-C,PsCHC†PIP°PSPSCл P·PµP” C,P° PeP»C-PSC-C†PSPsPiPs C†C,P°PSC†. PïPeC%Ps
PSPµPsP±C...C-PrPSPs, C†P»C-Pr PjPsPSC-C,PsCHC†PIP°C,Pë CHC-PIPµPSCH
PrPëPiPsPeC†PëPSC† PI PeCHPsPIC- C,P° PePsCHPëPiC†PIP°C,Pë PrPsP·C† PrPëPiPsPeC†PëPSC†.

P”P°P±C-PiP°C,CŸP°PS. P—P±C-P»CHC€PµPSPSCл PïP»P°P·PjPsPiPëC...
PePsPSC†PµPSC,CŸP°C†C-PNë PrP°P±C-PiP°C,CŸP°PSC† P· PïC-PrPiPëC%PµPSPSCлPj
CHPëP·PëPeC† PiPµPjPsCHP°PiC-C†PSPëC... CлPiPëC%. PïPeC%Ps PrP°P±C-PiP°C,CŸP°PS
P·P°C†C,PsC†PsPIC†C”C,CHC†Cл PïC-C†P»Cл PïCHPsPiPµPrPµPSPSCл
C...C-CŸC†CHPiC-C†PSPsPiPs PIC,CHC†C†P°PSPSCл, PiPsC,CHC-P±PSPs PïCHPsPiPsPrPëC,Pë
PeP»C-PSC-C†PSPµ PjPsPSC-C,PsCHC†PIP°PSPSCл C,P° PePsCHPëPiC†PIP°PSPSCл PrPsP·Pë
PrP°P±C-PiP°C,CŸP°PSC† P·P° PSPµPsP±C...C-PrPSPsC†C,C-, P°P»Pµ PSPµ PiPëC%Pµ P·P° 150
PjPi/PrPsP±C†.

PhC†PeC-P»CHPePë P°PjC-PsPrP°CHPsPS PjP°C” C,CHPëPIP°P»PëPNë PiPµCHC-PsPr
PSP°PïC-PIPiPëPiPµPrPµPSPSCл, C,Ps PiPëPSPëPePSPµPSPSCл PIP·P°C”PjPsPrC-PNë PjPsP¶Pµ
C†PiPsC†C,PµCHC-PiP°C,PëC†Cл PIPïCHPsPrPsPiP¶ PrPµPeC-P»CHPePsC... PjC-C†Cл†C-PI
PïC-C†P»Cл PïCHPëPiPëPSPµPSPSCл P»C-PeC†PIP°PSPSCл P°PjC-PsPrP°CHPsPSPsPj.

PŸC¿P±C†C,CŸP°C,Pë CYP 2C9. PhPjC-PsPrP°CHPsPS P·P±C-P»CHC€C†C” PïP»P°P·PjPsPIC-
PePsPSC†PµPSC,CŸP°C†C-C— CHPµC†PsPiPëPS, CлPeC- C” C†C†P±C†C,CŸP°C,P°PjPë CYP 2C9,
C,P°PePëC... CлPe P°PSC,P°PiPsPSC-C†C,Pë PIC-C,P°PjC-PSC† Pµ P°P±Ps C,,PµPSC-C,PsC—PS,
P·P° CHP°C...C†PSPsPe PïCHPëPiPSC-C†PµPSPSCл C,,PµCHPjPµPSC,C-PI C†PëC,PsC...CHPsPjC†
P450 2C9.

PŸPSC,P°PiPsPSC-C†C,Pë PIC-C,P°PjC-PSC¿ Pµ. PµPsC†PëP»PµPSPSCл PµC,,PµPeC,C-PI
P°PSC,P°PiPsPSC-C†C,C-PI PIC-C,P°PjC-PSC† Pµ C,P° PïC-PrPiPëC%PµPSPSCл CHPëP·PëPeC†
PeCHPsPiPsC,PµC†C-. PhPsPSC-C,PsCHPëPSPi PjC-P¶PSP°CHPsPrPSPsPiPs
PSPsCHPjP°P»C-P·PsPiP°PSPsPiPs PIC-PrPSPsC€PµPSPSCл (PµPµP’) PïPsPiPëPSPµPS
P·PrC-PNëC†PSCHPIP°C,PëC†CH P±C-P»CHC€ C†P°C†C,Ps. P”PsP·C† P°PSC,P°PiPsPSC-C†C,P°
PIC-C,P°PjC-PSC† Pµ C†P»C-Pr PePsCHPëPiC†PIP°C,Pë PïC-Pr C†P°C† P»C-PeC†PIP°PSPSCл
P°PjC-PsPrP°CHPsPSPsPj C,P° PIPïCHPsPrPsPiP¶ 8 PrPSC-PI PïC-C†P»Cл
P·P°PiPµCHC€PµPSPSCл P»C-PeC†PIP°PSPSCл.

*PµPµPSC-C,PsC—PS (C€P»CлC...PsPj PµPeC†C,CŸP°PiPsP»CлC†C-C— eŸ” C,P°PePsP¶ C-
C,,PsC†C,,PµPSC-C,PsC—PS).* P—P±C-P»CHC€PµPSPSCл PïP»P°P·PjPsPiPëC...

PePsPSC†PμPSC, C₇H^oC†C- PN_{e} C,, PμPSC-C, PsC—PSC₁ P· PsP·PSP°PeP°PjPë
PīPμC₇H₇PμPrPsP·C₁PIP°PSPSC₁, PsC₁PsP±P»PëPIPs PSPμPIC₇PsP»PsPiC-C†PSPëPjPë
PsP·PSP°PeP°PjPë (PīC₇H₇PëPiPSC-C†PμPSPSC₁ PjPμC, P°P±PsP»C-P·PjC₁ C,, PμPSC-C, PsC—PSC₁ PI
PīPμC†C-PSC†C-). PŸP»C-Pr PīC₇H₇PsPIPsPrPëC, Pë PeP»C-PSC-C†PSPëPN_e PjPsPSC-C, PsC₇H₇PëPSPI,
PjPsPSC-C, PsC₇H₇C₁PIP°PSPSC₁ PePsPSC†PμPSC, C₇H^oC†C- PN_{e} C,, PμPSC-C, PsC—PSC₁ PI
PīP»P°P·PjC- PeC₇H₇PsPIC- C, P°, C₁PeC%₀₀Ps PSPμPsP±C...C-PrPSPs, PePsC₇H₇PëPiC₁PIP°C, Pë
PrPsP·C₁ C,, PμPSC-C, PsC—PSC₁.

PŸCžP±C₁C, C₇H^oC, Pë CYP2D6:

- PαP»PμPeP°C—PSC-Pr. PhPjC-PsPrP°C₇H₇PsPS PīC-PrPIPëC%₀₀C₁C” PīP»P°P·PjPsPIC-
PePsPSC†PμPSC, C₇H^oC†C-C— C,, P»PμPeP°C—PSC-PrC₁ C€P»C₁C...PsPj
C-PSPiC-P±C₁PIP°PSPSC₁ C†PëC, PsC...C₇H₇PsPjC₁ CYP2D6. PŸPsPjC₁ C₁P»C-Pr
PīC₇H₇PsPIPsPrPëC, Pë PePsC₇H₇PμPeC†C-C₇ PrPsP·Pë C,, P»PμPeP°C-PSPëPrC₁.

PŸCžP±C₁C, C₇H^oC, Pë CYP3A4: P°PjC-PsPrP°C₇H₇PsPS C” C-PSPiC-P±C-C, PsC₇H₇PsPj CYP3A4 C, P°
PīC-PrPIPëC%₀₀C₁C” PePsPSC†PμPSC, C₇H^oC†C-C₇ PI PīP»P°P·PjC- C₁C₁P±C₁C, C₇H^oC, C-PI
PrP°PSPsPiPs C†PëC, PsC...C₇H₇PsPjC₁, C₁Pe C₇H₇PμP·C₁P»CHC, P°C, - PīC-PrPIPëC%₀₀C₁C”
C, PsPeC₁PëC†PSC₁ PrC-C₇ C†PëC... C₁C₁P±C₁C, C₇H^oC, C-PI.

- PŸC, P°C, PëPSPë (C₁PëPjPIP°C₁C, P°C, PëPS, P°C, PsC₇H₇PIP°C₁C, P°C, PëPS,
P»PsPIP°C₁C, P°C, PëPS). PμC₇H₇Pë PsPrPSPsC†P°C₁PSPsPjC₁ P·P°C₁C, PsC₁C₁PIP°PSPSC-
P°PjC-PsPrP°C₇H₇PsPSC₁ C, P° C₁C, P°C, PëPSC-PI, C₁PeC- PjPμC, P°P±PsP»C-P·C₁C₇C, CHC₁C₁
P·P° PrPsPīPsPjPsPiPsC₇ CYP3A4, C, P°PePëC... C₁Pe C₁PëPjPIP°C₁C, P°C, PëPS,
P°C, PsC₇H₇PIP°C₁C, P°C, PëPS C, P° P»PsPIP°C₁C, P°C, PëPS, PīC-PrPIPëC%₀₀C₁C” C, CHC₁C₁
C₇H₇PëP·PëPe PIPëPSPëPePSPμPSPSC₁ PjP₇™ C₁Pe·PsPIPsC— C, PsPeC₁PëC†PSPsC₁C, C-
(PSP°PīC₇H₇PëPeP»P°Pr, C₇H^oP±PrPsPjC-PsP»C-P°). PμC₇H₇Pë PsPrPSPsC†P°C₁PSPsPjC₁
P·P°C₁C, PsC₁C₁PIP°PSPSC- P· P°PjC-PsPrP°C₇H₇PsPSPsPj C₇H₇PμPePsPjPμPSPPrPsPIP°PSPs
P·P°C₁C, PsC₁PsPIC₁PIP°C, Pë C₁C, P°C, PëPSPë, C₁PeC- PSPμ
PjPμC, P°P±PsP»C-P·C₁C₇C, CHC₁C₁ P·P° PrPsPīPsPjPsPiPsC₇ CYP3A4.

P†PSC€C- P»C-PeP°C₇H₇C₁CHPeC- P·P°C₁PsP±Pë, C%₀₀Ps PjPμC, P°P±PsP»C-P·C₁C₇C, CHC₁C₁
P·P° C₁C†P°C₁C, C₇ CYP3A4 (P»C-PrPsPeP°C—PS, C₁PëC₇H₇PsP»C-PjCžC₁,
C, P°PeC₇H₇PsP»C-PjCžC₁, C₁PëP»PrPμPSP°C,, C-P», PjC-PrP°P·PsP»P°Pj,
PrPëPiC-PrC₇H₇PsPμC₇H₇PiPsC, P°PjC-PS, PμC₇H₇PiPsC, P°PjC-PS, PePsP»C...C-C†PëPS,
C, C₇H₇C-P°P·PsP»P°Pj). PhPjC-PsPrP°C₇H₇PsPS C” C-PSPiC-P±C-C, PsC₇H₇PsPj CYP3A4 C, P°
PīC-PrPIPëC%₀₀C₁C” PePsPSC†PμPSC, C₇H^oC†C-C— C†PëC... PjPsP»PμPeC₁P» PI PīP»P°P·PjC-
PeC₇H₇PsPIC-, C%₀₀Ps PīC₇H₇PëP·PIPsPrPëC, CH PrPs PīPsC, PμPSC†C- PN_{e} PSPsPiPs
PīC-PrPIPëC%₀₀PμPSPSC₁ C—C...PSCHPsC— C, PsPeC₁PëC†PSPsC₁C, C-.

P>C-PrPsPeP°C—PS. P PëP·PëPe P·P±C-P»CHC€PμPSPSC₁ PīP»P°P·PjPsPIPëC...
PePsPSC†PμPSC, C₇H^oC†C- PN_{e} P»C-PrPsPeP°C—PSC₁, C₁PePëPN_e PjPsP¶Pμ PīC₇H₇PëP·PIPμC₁C, Pë
PrPs PSPμPIC₇PsP»PsPiC-C†PSPëC... C, P° PeP°C₇H₇PrC-P°P»CHPSPëC... PīPsP±C-C†PSPëC...
PμC,, PμPeC, C-PI PIPSP°C₁P»C-PrPsPe PīC₇H₇PëPiPSC-C†PμPSPSC₁ P°PjC-PsPrP°C₇H₇PsPSPsPj
PīPμC†C-PSPePsPIPsPiPs PjPμC, P°P±PsP»C-P·PjC₁. PŸP»C-Pr PīC₇H₇PsPIPsPrPëC, Pë
PeP»C-PSC-C†PSPμ C, P° P·PμP” PjPsPSC-C, PsC₇H₇C₁PIP°PSPSC₁, P° C, P°PePsP¶, PīC₇H₇Pë
PSPμPsP±C...C-PrPSPsC₁C, C-, PeC-P»CHPeC-C₁PSPμ PIPëP·PSP°C†PμPSPSC₁
PīP»P°P·PjPsPIPëC... PePsPSC†PμPSC, C₇H^oC†C- PN_{e} P»C-PrPsPeP°C—PSC₁. Pj C₇H^oP·C-
PSPμPsP±C...C-PrPSPsC₁C, C- б₇” PePsC₇H₇PëPiC₁PIP°PSPSC₁ PrPsP·Pë P»C-PrPsPeP°C—PSC₁
PSP° C, P»C- P»C-PeC₁PIP°PSPSC₁ P°PjC-PsPrP°C₇H₇PsPSPsPj C, P° PīC-C₁P»C₁ PN_ePsPiPs
PIC-PrPjC-PSPë.

*PjP°PeCḡPsP»C-PjCžCÍ. P—P±C-P»CHbC€PμPSPSCÍ PePsPSC†PμPSC,CḡP°C†C-PNē
C,P°PeCḡPsP»C-PjCÍCÍCÍ PI PeCḡPsPIC- C†PμCḡPμP· PīCḡPēPiPSC-C†PμPSPSCÍ PNēPsPiPs
PjPμC,P°P±PsP»C-P·PjCÍ P°PjC-PsPrP°CḡPsPSPsPj. PŸP»C-Pr PīCḡPsPIPsPrPēC,Pē
PeC-P»CHbPeC-CÍPSPμ PIPēP·PSP°C†PμPSPSCÍ PePsPSC†PμPSC,CḡP°C†C-PNē
C,P°PeCḡPsP»C-PjCÍCÍCÍ CÍ PeCḡPsPIC-, PjPsPSC-C,PscḡCÍPIP°PSPSCÍ C„CÍPSPeC†C-C—
PSPēCḡPsPe C,P° PePsCḡPēPiCÍPIP°PSPSCÍ PrPsP·Pē C,P°PeCḡPsP»C-PjCÍCÍCÍ PīCḡPē
PsPrPSPsC†P°CÍPSPsPjCÍ PNēPsPiPs P·P°CÍC,PscÍCÍPIP°PSPSC- P· P°PjC-PsPrP°CḡPsPSPsPj C,P°
PīC-CÍP»CÍ PIC-PrPjC-PSPē PsCÍC,P°PSPSCHbPsPiPs.*

*P'PμC,P°-P±P»PsPeP°C,PscḡPē, PsPeCḡC-Pj CÍPsC,P°P»PsP»Cž
(PīCḡPsC,PēPiPsPeP°P·P°PSP° PePsPjP±C-PSP°C†C-CÍ) C,P° PμCÍPjPsP»PsP»Cž
(PePsPjP±C-PSP°C†C-CÍ, CÍPeP° PIPēPjP°PiP°C" P·P°PiPsP±C-P¶PSPēC...
P·P°C...PsPrC-PI PīCḡPē P·P°CÍC,PscÍCžPIP°PSPSC-). PμPsCḡCÍC€PμPSPSCÍ
P°PIC,PsPjP°C,PēP·PjCÍ C,P° PīCḡPsPIC-PrPSPsCÍC,C- (PīCḡPēPiPSC-C†PμPSPSCÍ
PePsPjPiPμPSCÍP°C,PscḡPSPēC... CÍPēPjPiP°C,PēC†PSPēC... PjPμC...P°PSC-P·PjC-PI).
P PμPePsPjPμPSPPrPsPIP°PSPs P•PḡP" C,P° PeP»C-PSC-C†PSPμ PjPsPSC-C,PscḡCÍPIP°PSPSCÍ.*

*P'PμC,P°-P±P»PsPeP°C,PscḡPē, CÍPeC- P·P°CÍC,PscÍPsPICžCḡC,CHbCÍCÍ P·
PīCḡPēPIPsPrCž CÍPμCḡC†PμPIPsC— PSPμPrPsCÍC,P°C,PSPsCÍC,C-
(P±C-CÍPsPīCḡPsP»PsP», PeP°CḡPIPμPrPēP»PsP», PjPμC,PsPīCḡPsP»PsP»,
PSPμP±C-PIPsP»PsP»). PμPsCḡCÍC€PμPSPSCÍ P°PIC,PsPjP°C,PēP·PjCÍ C,P°
PīCḡPsPIC-PrPSPsCÍC,C- PjC-PsPeP°CḡPrP° P· CḡPēP·PēPePsPj PSP°PrPjC-CḡPSPsC—
P±CḡP°PrPēPeP°CḡPrC-C—. P—P±C-P»CHbC€PμPSPSCÍ CḡPēP·PēPeCÍ CḡPsP·PIPēC,PeCÍ
C€P»CÍPSPsC†PePsPIPēC... P°CḡPēC,PjC-PNē, PsCÍPsP±P»PēPIPs B«torsades de pointesB».
P PμPePsPjPμPSPPrPsPIP°PSPs CḡPμPiCÍP»CÍCḡPSPμ PeP»C-PSC-C†PSPμ C,P° P•PḡP"
PjPsPSC-C,PscḡCÍPIP°PSPSCÍ.*

*P•CÍPjPsP»PsP». PμPsCḡCÍC€PμPSPSCÍ CÍPePsCḡPsC,P»PēPIPsCÍC,C-,
P°PIC,PsPjP°C,PēP·PjCÍ C,P° PīCḡPsPIC-PrPSPsCÍC,C- (PīCḡPēPiPSC-C†PμPSPSCÍ
PePsPjPiPμPSCÍP°C,PscḡPSPēC... CÍPēPjPiP°C,PēC†PSPēC... PjPμC...P°PSC-P·PjC-PI).
P PμPePsPjPμPSPPrPsPIP°PSPs P•PḡP" C,P° PeP»C-PSC-C†PSPμ PjPsPSC-C,PscḡCÍPIP°PSPSCÍ.*

*P"PēP»C,C-P°P·PμPj PrP»CÍ PīPμCḡPsCḡP°P»CHbPSPsPiPs P·P°CÍC,PscÍCžPIP°PSPSCÍ.
P PēP·PēPe CḡPsP·PIPēC,PeCÍ P±CḡP°PrPēPeP°CḡPrC-C— P°P±Ps
P°C,CḡC-PsPIPμPSC,CḡPēPeCÍP»CÍCḡPSPsC— P±P»PsPeP°PrPē, PsCÍPsP±P»PēPIPs CÍ
PiP°C†C-C"PSC,C-PI P»C-C,PschbPsPiPs PIC-PeCÍ. P PμPePsPjPμPSPPrPsPIP°PSPs P•PḡP" C,P°
PeP»C-PSC-C†PSPμ PjPsPSC-C,PscḡCÍPIP°PSPSCÍ.*

*P'PμCḡP°PiP°PjC-P» PrP»CÍ PīPμCḡPsCḡP°P»CHbPSPsPiPs P·P°CÍC,PscÍCžPIP°PSPSCÍ.
P PēP·PēPe CḡPsP·PIPēC,PeCÍ P±CḡP°PrPēPeP°CḡPrC-C— C,P°
P°C,CḡC-PsPIPμPSC,CḡPēPeCÍP»CÍCḡPSPsC— P±P»PsPeP°PrPē, PsCÍPsP±P»PēPIPs CÍ
PiP°C†C-C"PSC,C-PI P»C-C,PschbPsPiPs PIC-PeCÍ. P PμPePsPjPμPSPPrPsPIP°PSPs P•PḡP" C,P°
PeP»C-PSC-C†PSPμ PjPsPSC-C,PscḡCÍPIP°PSPSCÍ.*

*P"PμCÍPeC- PjP°PeCḡPsP»C-PrPē (P°P·PēC,CḡPsPjC-C†PēPS,
PeP»P°CḡPēC,CḡPsPjC-C†PēPS, CḡPsPeCÍPēC,CḡPsPjC-C†PēPS).
P—P±C-P»CHbC€PμPSPSCÍ CḡPēP·PēPeCÍ CḡPsP·PIPēC,PeCÍ C€P»CÍPSPsC†PePsPIPēC...
P°CḡPēC,PjC-PNē, PsCÍPsP±P»PēPIPs B«torsades de pointesB». P PμPePsPjPμPSPPrPsPIP°PSPs
P•PḡP" C,P° PeP»C-PSC-C†PSPμ PjPsPSC-C,PscḡCÍPIP°PSPSCÍ PSP° C,P»C-
PsPrPSPsC†P°CÍPSPsPiPs P·P°CÍC,PscÍCÍPIP°PSPSCÍ C†PēC... PīCḡPμPiP°CḡP°C,C-PI P·
P°PjC-PsPrP°CḡPsPSPsPj.*

$P_{\mu}C-P \gg P_S P_E P^{\circ} C_{\overline{H}} P_{\overline{I}} C - PS$. $P \ P \overline{P} \cdot P \overline{P} P_E \ C_{\overline{H}} P_S P \cdot PIP \overline{E} C, P_E C' \ P S P^{\circ} P r P_j C - C_{\overline{H}} P S P_S C -$
 $P \pm C_{\overline{H}} P^{\circ} P r P \overline{P} P_E P^{\circ} C_{\overline{H}} P r C - C - (P^{\circ} P r P \overline{E} C, P \overline{E} PIPSC - P_{\mu} C,, P_{\mu} P_E C, P \overline{E} \ P_i C_{\overline{H}} P_{\mu} P_i P^{\circ} C_{\overline{H}} P^{\circ} C, C - PI, C_{\overline{H}} P_E C -$
 $C r P_i P_S PIC - P \gg C_{\overline{H}} P S C_{\overline{H}} C_{\overline{H}} C, C_{\overline{H}} \ C' P_{\mu} C_{\overline{H}} C' P_{\mu} PIP \overline{E} P_{N_0} \ C_{\overline{H}} P \overline{E} C, P_j).$

PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCáPIP°PSPSCÍ.

P·C,,PμPeC,Pë P· P±PsPeCá CÍPμCȚCtCÍ. P"Ps PìPsC±P°C,PeCÍ P·P°CÍC,PsCÍCÍPIP°PSPSCÍ PìCȚPμPìP°CȚP°C,CÍ PSPμPsP±C...C-PrPSPs P·CȚPsP±PëC,Pë P·PμP"

PJ PìP°C†C-C"PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeCÍ PSP° C,P»C- PìCȚPëPNμPsPjCÍ PìCȚPμPìP°CȚP°C,CÍ PjPsP¶Pμ PìPsCÍPëP»CHPIP°C,PëCÍCÍ CÍPìPsPIC-P»CHPSPμPSPSCÍ C±P°CÍC,PsC,Pë CÍPμCȚC†PμPIPëC... CÍPePsCȚPsC±PμPSCH.

PȚPjC-PsPrP°CȚPsPS C-PSPrCÍPeCÍC" P·PjC-PSPë P·PμP". PjC- P·PjC-PSPë PIPëP»CHC±P°CHC,CH PìPsPrPsPIP¶PμPSPSCÍ C-PSC,PμCȚPIP°P»CÍ QT PIPSP°CÍP»C-PrPsPe PìPsPrPsPIP¶PμPSPsC— CȚPμPìPsP»CÍCȚPëP·P°C†C-C—, P· PjPsP¶P»PëPIPsCH PìPsCÍPIP°CH P·CÍP±C†CÍ U. PjPμ C" PsP·PSP°PePsCH C,PμCȚP°PìPμPIC,PëC±PSPsC— PrC-C— PìCȚPμPìP°CȚP°C,CÍ, P° PSPμ PNμPsPiPs C,PsPeCÍPëC±PSPsCÍC,C-.

P'PëPSPëPePSPμPSPSCÍ PSP° C,P»C- P»C-PeCÍPIP°PSPSCÍ PȚV-P±P»PsPeP°PrPë II P°P±Ps III CÍC,CÍPìPμPSCÍ, CÍPëPSPsP°C,CȚC-P°P»CHPSPsC— P±P»PsPeP°PrPë P°P±Ps P±C-C,,P°CÍC†PëPeCÍP»CÍCȚPSPsC— P±P»PsPeP°PrPë PIPëPjP°PìP°C" PIC-PrPjC-PSPë PìCȚPμPìP°CȚP°C,CÍ. P PsP·PIPëC,PsPe PȚV-P±P»PsPeP°PrPë I CÍC,CÍPìPμPSCÍ PIPëPjP°PìP°C" PìPsCÍPëP»PμPSPSCÍ PSP°PìP»CÍPrCÍ P·P° PìP°C†C-C"PSC,PsPj.

PμPsPIC-PrPsPjP»CÍP»PsCÍCÍ PìCȚPs PIPëPìP°PrPePë PìPsCÍPIPë PSPsPìPsC— P°CȚPëC,PjC-C— P°P±Ps PìPsPiC-CȚC€PμPSPSCÍ PIP¶Pμ C-CÍPSCÍCHC±PsC— P°CȚPëC,PjC-C—, CÍPeCÍ P»C-PeCÍCHC,CH (PrPëPI. CȚPsP·PrC-P» B«PμPsP±C-C±PSC- CȚPμP°PeC†C-C—B»).

PȚP°PePëPNμ PìCȚPsP°CȚPëC,PjPsPiPμPSPSPëPNμ PμC,,PμPeC, PjPsP¶Pμ CÍPìPsCÍC,PμCȚC-PìP°C,PëCÍCH PsCÍPsP±P»PëPIPs P·P° PSP°CÍPIPSPsCÍC,C- C,,P°PeC,PsCȚC-PI, CÍPeC- CÍPìCȚPëCÍCHC,CH PìPsPrPsPIP¶PμPSPSCH C-PSC,PμCȚPIP°P»CÍ QT, P·PsPeCȚPμPjP° P·P°CÍC,PsCÍCÍPIP°PSPSCÍ PìPμPIPSPëC... PePsPjP±C-PSP°C†C-PNμ P»C-PeP°CȚCÍCHPePëC... P·P°CÍPsP±C-PI C,P° PìC-PìPsPeP°P»C-C"PjC-CÍ (PrPëPI. CȚPsP·PrC-P»Pë B«PμPsP±C-C±PSC- CȚPμP°PeC†C-C—B» C,P° B«P'P·P°C"PjPsPrC-CÍ P· C-PSC€PëPjPë P»C-PeP°CȚCÍCHPePëPjPë P·P°CÍPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C"PjPsPrC-PNμB»).

P PëP·PëPe PìPsCÍPIPë C-PSPrCÍPePsPIP°PSPsC— PìCȚPëPNμPsPjPsPj P»C-PeP°CȚCÍCHPePëC... P·P°CÍPsP±C-PI C,P°C...C-PeP°CȚPrC-C— *torsades de pointes* PìCȚPë P·P°CÍC,PsCÍCÍPIP°PSPSC- P°PjC-PsPrP°CȚPsPSCÍ PIP°P¶P°C",CHCÍCÍ PSPëP¶C±PëPj PìPsCȚC-PIPSCÍPSPs P· C-PSC€PëPjPë P°PSC,PëP°CȚPëC,PjC-C±PSPëPjPë PìCȚPμPìP°CȚP°C,P°PjPë CÍ PìP°C†C-C"PSC,C-PI P· PsPrPSP°PePsPIPëPj CÍC,CÍPìPμPSPμPj PìPsPrPsPIP¶PμPSPSCÍ C-PSC,PμCȚPIP°P»CÍ QT.

PμPsCȚCáC€PμPSPSCÍ P· P±PsPeCá C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë. PjPμPNμ P»C-PeP°CȚCÍCHPePëPNμ P·P°CÍC-P± PjC-CÍC,PëC,CH PNμPsPr, CÍ P·PìBȚ™ CÍP·PeCÍ P· C±PëPj PIPìP»PëPIP°C" PSP° CȚPμP·CÍP»CHC,P°C,Pë PrPμCÍPePëC... PìPsPeP°P·PSPëPeC-PI C,,CÍPSPeC†C-C— C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë (PìPsPiP»PëPSP°PSPSCÍ CȚP°PrC-PsP°PeC,PëPIPSPsPiPs PNμPsPrCÍ, CȚC-PIPSC- P±C-P»PePsPìPs·PìBȚ™ CÍP·P°PSPsPiPs PNμPsPrCÍ). PȚP»Pμ PìPsPeP°P·PSPëPePë C,,CÍPSPeC†C-C— C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë T3, T4, PIPëCÍPsPePsC±CÍC,P»PëPIPëPNμ P°PSP°P»C-P· PSP° PȚPȚP" P·P°P»PëC€P°CHC,CHCÍCÍ C-PSC,PμCȚPìCȚPμC,PsPIP°PSPëPjPë.

PȚPjC-PsPrP°CȚPsPS PjPsP¶Pμ PsP±CÍPjPsPIP»CHPIP°C,Pë PìPsCȚCÍC€PμPSPSCÍ

C,,CfPSPeC†C-C— C%oPëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë, PsCfPsP±P»PëPIPs Cf
PiP°C†C-C”PSC,C-PI C-P· PrPëCfC,,CfPSPeC†C-C”Cf C%oPëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë PI
P°PSP°PjPSPµP·C-. PñC-P»CHPeC-CfPSPµ PIPëP·PSP°C†PµPSPSCµ PIPjC-CfC,Cf PÿPÿP”
CfPµPePsPjPµPSPPrPsPIP°PSPµ Cf PICfC-C... PiP°C†C-C”PSC,C-PI PiPµCfPµPr PiPsC†P°C,PePsPj
P·P°CfC,PsCfCfPIP°PSPSCµ PiCfPµPiP°CfP°C,Cf, P° PiPsC,C-Pj CfPµPiCfP»CµCfPSPs PiC-Pr
C†P°Cf P»C-PeCfPIP°PSPSCµ C,P° PiCfPsC,CµPiPsPj PeC-P»CHPePsC... PjC-CfCµC†C-PI
PiC-CfP»Cµ PIC-PrPjC-PSPë PiCfPµPiP°CfP°C,Cf, P° C,P°PePsP¶ Cf PIPëPiP°PrPeCf
PeP»C-PSC-C†PSPsC— PiC-PrPsP·CfPë PSP° PrPëCfC,,CfPSPeC†C-Cf C%oPëC,PsPIPëPrPSPsC—
P·P°P»PsP·Pë (PrPëPI. CfPSP·PrC-P» B«PµPsP±C-C†PSC- CfPµP°PeC†C-C—B»).

*PµPsCfCáCëPµPSPSCµ P· P±PsPeCá P»PµPiPµPSCf. PµPsCµPIP° P·P°PrPëCëPePë P°P±Ps
PSPµPiCfPsPrCfPeC,PëPIPSsPiPs PeP°CëP»Cf, CµPe C-P·PsP»CHPsPIP°PSPëC..., C,P°Pe C-
P°CfPsC†C-PñPsPIP°PSPëC... P· PiPsPiC-CfCëPµPSPSCµPj P·P°PiP°P»CHPSPsPiPs CfC,P°PSCf,
PjP°C” CfPsP·PiP»CµPrP°C,PëCfCµ CµPe PjPsP¶P»PëPIP° PsP·PSP°PeP° P»PµPiPµPSPµPIPsC—
C,PsPeCfPëC†PSPsCfC,C- PiCfPµPiP°CfP°C,Cf, PSP°PiCfPëPeP»P°Pr, CfPsP·PIPëC,PeCf
C-PSC,PµCfCfC,PëC†C-P°P»CHPSPsPiPs PiPSPµPIPjPsPSC-C,Cf, C,P° PIPëPjP°PiP°C”
CfPµPSC,PiPµPSPsP»PsPiC-C†PSPsPiPs PsP±CfC,PµP¶PµPSPSCµ PiP°C†C-C”PSC,P° (PrPëPI.
CfPSP·PrC-P» B«PµPsP±C-C†PSC- CfPµP°PeC†C-C—B»).*

*PµPsCfCáCëPµPSPSCµ P· P±PsPeCá PiPµC†C-PSPePë. P PµPiCfP»CµCfPSPµ
PjPsPSC-C,PsCfCfPIP°PSPSCµ C,,CfPSPeC†C-C— PiPµC†C-PSPePë
CfPµPePsPjPµPSPPrPsPIP°PSPµ PSP° PiPsC†P°C,PeCf PiCfPëPñPsPjCf PiCfPµPiP°CfP°C,Cf,
PrP°P»C- PiPµCfC-PsPrPëC†PSPs PiCfPsC,CµPiPsPj P»C-PeCfPIP°PSPSCµ
P°PjC-PsPrP°CfPSPsPSPsPj (PrPëPI. CfPSP·PrC-P» B«PµPsP±C-C†PSC- CfPµP°PeC†C-C—B»).*

*PkPµCfPIPsPIPs-Pjē™ CµP·PsPIC- PiPsCfCáCëPµPSPSCµ. PñPjC-PsPrP°CfPsPS PjPsP¶Pµ
CfPiCfPëC†PëPSCµC,Pë PiPµCfPëC,,PµCfPëC†PSCf CfPµPSCfPsCfPSPs-PjPsC,PsCfPSCf
P°P±Ps P·PjC-CëP°PSCf PSPµPñCfPsPiP°C,C-Cf C- PjC-PsPiP°C,C-Cf (PrPëPI. CfPSP·PrC-P»
B«PµPsP±C-C†PSC- CfPµP°PeC†C-C—B»).*

*PµPsCfCáCëPµPSPSCµ P· P±PsPeCá PsCfPiP°PSC-PI P·PsCfCá. PµCfPë PIPëPSPëPePSPµPSPSC-
PSPµC†C-C,PePsCfC,C- P·PsCfCf P°P±Ps P·PSPëP¶PµPSPSCµ PiPsCfC,CfPsC,Pë P·PsCfCf
PSPµPsP±C...C-PrPSPs PSPµPiP°PñPSPs PIPëPePsPSP°C,Pë PiPsPIPSµ
PsC,,C,P°P»CHPjPsP»PsPiC-C†PSPµ PsP±CfC,PµP¶PµPSPSCµ, Cf C,PsPjCf C†PëCfP»C-
PsC,,C,P°P»CHPjPsCfPePsPiC-Cf. P PsP·PIPëC,PsPe PSPµPñCfPsPiP°C,C-C— P°P±Ps
PSPµPICfPëC,Cf P·PsCfPsPIPsPiPs PSPµCfPIP°, PsP±CfPjPsPIP»PµPSPëC...
P°PjC-PsPrP°CfPSPsPSPsPj, PIPëPjP°PiP°C” PIC-PrPjC-PSPë PiCfPµPiP°CfP°C,Cf,
PsCfPeC-P»CHPePë PiCfPsPrPsPIP¶PµPSPSCµ P»C-PeCfPIP°PSPSCµ PjPsP¶Pµ
PiCfPëP·PIPµCfC,Pë PrPs PiCfPsPiCfPµCfCfPIP°PSPSCµ PiPsCfCfCëPµPSCf PrPs
CfP»C-PiPsC,Pë (B«PµPsP±C-C†PSC- CfPµP°PeC†C-C—B»).*

*PÿCµP¶PeC- CëPeC-CfPSC- CfPµP°PeC†C-C—. PñPsP¶CfC,CH PIPëPSPëPeP°C,Pë
PSPµP±PµP·PiPµC†PSC- PrP»Cµ P¶PëC,C,Cµ P°P±Ps PSP°PIC-C,CH P»PµC,P°P»CHPSC-
CëPeC-CfPSC- CfPµP°PeC†C-C—, C,P°PeC- CµPe CfPëPSPrCfPsPj
PÿC,C-PIPµPSCfP°ñP”P¶PsPSCfPsPSP° P°P±Ps C,PsPeCfPëC†PSPëPñ
PµPiC-PrPµCfPjP°P»CHPSPëPñ PSPµPeCfPsP»C-P·. Pj CfP°P·C- PiPsCµPIPë PsP·PSP°Pe
P°P±Ps CfPëPjPiC,PsPjC-PI, C%oPs PIPeP°P·CfCfC,CH PSP° C†C- CfC,P°PSPë
(PSP°PiCfPëPeP»P°Pr, PiCfPsPiCfPµCfCfCfC†PëPñ PIPëCfPëPi PSP° CëPeC-CfC- P·
CfC,PIPsCfPµPSPSCµPj PiCfC...PëCfC-PI P°P±Ps CfCfP°P¶PµPSPSCµPjPë CfP»PëP·PsPIPsC—
PsP±PsP»PsPSPePë), CfP»C-Pr PSPµPiP°PñPSPs PiCfPëPiPëPSPëC,Pë P»C-PeCfPIP°PSPSCµ
P°PjC-PsPrP°CfPSPsPSPsPj.*

PJClC- PiP°C†C-C"PSC,Pë, ClPeC- P·P°CḡP°P· PiCḡPëPNḡPjP°CḡC,CH P°P±Ps
PSPµC%PsPrP°PIPPSPs PiCḡPëPNḡPjP°P»Pë P°PjC-PsPrP°CḡPsPS Cr PePsPjP±C-PSP°C†C-C— P·
P»C-PeP°CḡClCḡPePëPjPë P·P°CḡPsP±P°PjPë, C%Ps PjC-CḡC,ClC,CH
CḡPsC,,PsCḡP±CḡPIC-Cḡ, PiPsPIPëPSPSC- P±CḡC,Pë PiPsPiPµCḡPµPrP¶PµPSC- PiCḡPs
CḡPëPjPiC,PsPjPë P±CḡP°PrPëPeP°CḡPrC-C— C- PiPsCḡCrCḡPµPSCḡ CḡPµCḡC†PµPIPsC—
PiCḡPsPIC-PrPSPsCḡC,C-, P° C,P°PePsP¶ C—Pj PSPµPsP±C...C-PrPSPs
CḡPµPePsPjPµPSPPrCḡPIP°C,Pë Cr CḡP°P·C- PIPëPSPëPePSPµPSPSCḡ C,P°PePëC...
CḡPëPjPiC,PsPjC-PI PSPµPiP°PNḡPSPs P·PIPµCḡPSCḡC,PëCḡCl P·P° PjPµPrPëC†PSPsCḡ
PrPsPiPsPjPsPiPsCḡ.

$P_{\mu}PsC\tilde{H}C\acute{a}C\epsilon P_{\mu}PSPSC\sqcup, \Pi PsPI\theta\tilde{H}^{\text{TM}}C\sqcup P\cdot P^{\circ}PSC- C\cdot P\cdot PIP\cdot P^{\circ}C''PjPsPrC-C\sqcup PjP\ddot{e} P\cdot C-PSC\epsilon P\ddot{e}PjP\ddot{e}$
 $P\gg C-PeP^{\circ}C\tilde{H}C\acute{I}CH\ddot{H}PeP\ddot{e}PjP\ddot{e} P\cdot P^{\circ}C\acute{I}PsP\pm P^{\circ}PjP\ddot{e}$. $P_{\mu}PsPjP\pm C-PSP^{\circ}C\ddagger C-C-$ ($PrP\ddot{e}PI$. $C\tilde{H}PsP\cdot PrC-P\gg$
 $B\ll P'P\cdot P^{\circ}C''PjPsPrC-C\sqcup P\cdot C-PSC\epsilon P\ddot{e}PjP\ddot{e} P\gg C-PeP^{\circ}C\tilde{H}C\acute{I}CH\ddot{H}PeP\ddot{e}PjP\ddot{e} P\cdot P^{\circ}C\acute{I}PsP\pm P^{\circ}PjP\ddot{e} C, P^{\circ}$
 $C-PSC\epsilon C- PIP\ddot{e}PrP\ddot{e} PIP\cdot P^{\circ}C''PjPsPrC-PN_{\mathbb{B}}\gg$) $P\cdot C, P^{\circ}PeP\ddot{e}PjP\ddot{e} \Pi C\tilde{H}P_{\mu}\ddot{P}P^{\circ}C\tilde{H}P^{\circ}C, P^{\circ}PjP\ddot{e}$, $C\sqcup Pe$:

-B B B $P\pm P_{\mu}C, P^{\circ}-P\pm P\gg PsPeP^{\circ}C, PsC\tilde{H}P\ddot{e}$, $PsPeC\tilde{H}C-Pj C\acute{I}PsC, P^{\circ}P\gg PsP\gg C\acute{r}$
($\Pi C\tilde{H}PsC, P\ddot{e}\ddot{P}IPsPeP^{\circ}P\cdot P^{\circ}PSP^{\circ} PePsPjP\pm C-PSP^{\circ}C\ddagger C-C\sqcup$) $C, P^{\circ} P_{\mu}C\acute{I}PjPsP\gg PsP\gg C\acute{r}$
($PePsPjP\pm C-PSP^{\circ}C\ddagger C-C\sqcup$, $C\sqcup PeP^{\circ} PIP\ddot{e}PjP^{\circ}\ddot{P}P^{\circ}C'' P\cdot P^{\circ}\ddot{P}IPsP\pm C-P\parallel PSP\ddot{e}C... P\cdot P^{\circ}C...PsPrC-PI$
 $\ddot{P}iC\tilde{H}P\ddot{e} P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC-$),

-B B B $PIP_{\mu}C\tilde{H}P^{\circ}\ddot{P}P^{\circ}PjC-P\gg C, P^{\circ} PrP\ddot{e}P\gg C, C-P^{\circ}P\cdot P_{\mu}Pj$

$C\acute{I}P\gg C-Pr C\tilde{H}PsP\cdot \ddot{P}iP\gg C\sqcup PrP^{\circ}C, P\ddot{e} P\gg P\ddot{e}C\epsilon P_{\mu} PrP\gg C\sqcup \ddot{P}iC\tilde{H}PsC,, C-P\gg P^{\circ}PeC, P\ddot{e}PeP\ddot{e}$
 $PSP_{\mu}P\pm P_{\mu}P\cdot \ddot{P}iP_{\mu}C\ddagger PSP\ddot{e}C... PrP\gg C\sqcup P\parallel P\ddot{e}C, C, C\sqcup C\epsilon P\gg C\acute{r}PSPsC\ddagger PePsPIP\ddot{e}C... P^{\circ}C\tilde{H}P\ddot{e}C, PjC-PN_{\mathbb{B}}$.

$PhPrPSPsC\ddagger P^{\circ}C\acute{I}PSP_{\mu} P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC\sqcup P^{\circ}PjC-PsPrP^{\circ}C\tilde{H}PsPSC\acute{r} PSP_{\mu}$
 $C\tilde{H}P_{\mu}PePsPjP_{\mu}PSP\acute{r}C\acute{r}C''C, CHC\acute{I}C\sqcup P\cdot PSP^{\circ}C\acute{I}C, C\acute{r}\ddot{P}iPSP\ddot{e}PjP\ddot{e} P\gg C-PeP^{\circ}C\tilde{H}C\acute{I}CH\ddot{H}PeP\ddot{e}PjP\ddot{e}$
 $P\cdot P^{\circ}C\acute{I}PsP\pm P^{\circ}PjP\ddot{e}$:

$C\ddagger P\ddot{e}PeP\gg PsC\acute{I}\ddot{P}iPsC\tilde{H}P\ddot{e}PS$, $PrP\ddot{e}P\gg C, C-P^{\circ}P\cdot P_{\mu}Pj$ ($PrP\gg C\sqcup C-PS_{\mathbb{B}}\tilde{H}^{\text{TM}}C''PeC\ddagger C-PN_{\mathbb{B}}$) $P^{\circ}P\pm Ps$
 $PIP_{\mu}C\tilde{H}P^{\circ}\ddot{P}P^{\circ}PjC-P\gg$ ($PrP\gg C\sqcup C-PS_{\mathbb{B}}\tilde{H}^{\text{TM}}C''PeC\ddagger C-PN_{\mathbb{B}}$), $PrP_{\mu}C\sqcup PeC-$
 $\ddot{P}iC\tilde{H}PsC, P\ddot{e}\ddot{P}iP^{\circ}C\tilde{H}P^{\circ}P\cdot P\ddot{e}C, P^{\circ}C\tilde{H}PSC- P\cdot P^{\circ}C\acute{I}PsP\pm P\ddot{e}$ ($\ddot{P}iP^{\circ}P\gg PsC,, P^{\circ}PSC, C\tilde{H}P\ddot{e}PS$,
 $P\gg C\tilde{H}PjP_{\mu}C,, P^{\circ}PSC, C\tilde{H}P\ddot{e}PS C, P^{\circ} \ddot{P}iP_{\mu}PSC, P^{\circ}PjC-PrP\ddot{e}PS$), $PrP_{\mu}C\sqcup PeC-$
 $PSP_{\mu}PN_{\mathbb{B}}C\tilde{H}PsP\gg P_{\mu}\ddot{P}iC, P\ddot{e}PeP\ddot{e}$ ($P^{\circ}PjC-C\acute{I}C\acute{r}P\gg CH\ddot{P}iC\tilde{H}P\ddot{e}Pr$, $C...P\gg PsC\tilde{H}\ddot{P}iC\tilde{H}PsPjP^{\circ}P\cdot P\ddot{e}PS$,
 $C\ddagger C-P^{\circ}PjP_{\mu}PjP^{\circ}P\cdot P\ddot{e}PS$, $PrC\tilde{H}Ps\ddot{P}iP_{\mu}C\tilde{H}P\ddot{e}PrPsP\gg$, $C,, P\gg C\acute{r}\ddot{P}iP_{\mu}PSC, P\ddot{e}PeC\acute{I}PsP\gg$,
 $C,, P\gg C\acute{r}C,, P_{\mu}PSP^{\circ}P\cdot P\ddot{e}PS$, $\ddot{P}iP^{\circ}P\gg Ps\ddot{P}iP_{\mu}C\tilde{H}P\ddot{e}PrPsP\gg$, $P\gg P_{\mu}PIP_sPjP_{\mu}\ddot{P}iC\tilde{H}PsPjP^{\circ}P\cdot P\ddot{e}PS$,
 $\ddot{P}iC-PjPsP\cdot P\ddot{e}Pr$, $\ddot{P}iC-\ddot{P}iP^{\circ}Pj\ddot{P}iP_{\mu}C\tilde{H}PsPS$, $\ddot{P}iC-\ddot{P}iPsC, C-P^{\circ}P\cdot P\ddot{e}PS$, $C\acute{I}P_{\mu}C\tilde{H}C, P\ddot{e}PSP\acute{r}PsP\gg$,
 $C\acute{I}C\acute{r}P\gg CH\ddot{P}iC-C\tilde{H}P\ddot{e}Pr$, $C\acute{I}C\acute{r}P\gg CHC, Ps\ddot{P}iC\tilde{H}P\ddot{e}Pr$, $C, C-P^{\circ}\ddot{P}iC\tilde{H}P\ddot{e}Pr$,
 $P\cdot C\acute{r}PeP\gg Ps\ddot{P}iP_{\mu}PSC, P\ddot{e}PeC\acute{I}PsP\gg$), $C,, C, PsC\tilde{H}C... C-PSPsP\gg PsPSP\ddot{e}$ ($P\cdot P^{\circ} PIP\ddot{e}PSC\sqcup C, PePsPj$
 $P\gg P_{\mu}PIP_sC,, P\gg PsPeC\acute{I}P^{\circ}C\ddagger P\ddot{e}PSC\acute{r} C, P^{\circ} PjPsPeC\acute{I}P\ddot{e}C,, P\gg PsPeC\acute{I}P^{\circ}C\ddagger P\ddot{e}PSC\acute{r}$),
 $C\acute{I}C, P\ddot{e}PjC\acute{r}P\gg C\tilde{H}C\tilde{H}C\ddagger C- \ddot{P}iPsC\acute{I}P\gg P^{\circ}P\pm P\gg C\tilde{H}C\tilde{H}C\ddagger C- P\cdot P^{\circ}C\acute{I}PsP\pm P\ddot{e}$, $PjP_{\mu}C, P^{\circ}PrPsPS P^{\circ}P\pm Ps$
 $C,, C-PSPiPsP\gg C-PjPsPr$ ($PrP\ddot{e}PI$. $C\tilde{H}PsP\cdot PrC-P\gg B\ll P'P\cdot P^{\circ}C''PjPsPrC-C\sqcup P\cdot C-PSC\epsilon P\ddot{e}PjP\ddot{e}$
 $P\gg C-PeP^{\circ}C\tilde{H}C\acute{I}CH\ddot{H}PeP\ddot{e}PjP\ddot{e} P\cdot P^{\circ}C\acute{I}PsP\pm P^{\circ}PjP\ddot{e} C, P^{\circ} C-PSC\epsilon C- PIP\ddot{e}PrP\ddot{e} PIP\cdot P^{\circ}C''PjPsPrC-PN_{\mathbb{B}}\gg$).

$P_{\mu}PsC\tilde{H}C\acute{a}C\epsilon P_{\mu}PSPSC\sqcup, \Pi PsPI\theta\tilde{H}^{\text{TM}}C\sqcup P\cdot P^{\circ}PSC- P\cdot PrPs\ddot{P}iPsPjC-P\parallel PSP\ddot{e}PjP\ddot{e}$
 $C\tilde{H}P_{\mu}C\ddagger PsPIP\ddot{e}PSP^{\circ}PjP\ddot{e}$. $P\ddot{P}P_{\mu}PN_{\mathbb{B}} P\gg C-PeP^{\circ}C\tilde{H}C\acute{I}CH\ddot{H}PeP\ddot{e}PN_{\mathbb{B}} P\cdot P^{\circ}C\acute{I}C-P\pm PjC-C\acute{I}C, P\ddot{e}C, CH$
 $P\gg P^{\circ}PeC, PsP\cdot C\acute{r}$, $C, PsPjC\acute{r} PSP_{\mu} C\tilde{H}P_{\mu}PePsPjP_{\mu}PSP\acute{r}PsPIP^{\circ}PSP\ddot{e}PN_{\mathbb{B}} PrPs$
 $P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC\sqcup \ddot{P}iP^{\circ}C\ddagger C-C''PSC, P^{\circ}Pj C-P\cdot$
 $PSP_{\mu}\ddot{P}iP_{\mu}C\tilde{H}P_{\mu}PSPsC\acute{I}P\ddot{e}PjC-C\acute{I}C, CH \ddot{P}iP^{\circ}P\gg P^{\circ}PeC, PsP\cdot P\ddot{e}$, $PrP_{\mu}C,, C-C\ddagger P\ddot{e}C, PsPj$
 $P\gg P^{\circ}PeC, P^{\circ}P\cdot P\ddot{e} P^{\circ}P\pm Ps C\acute{I}P\ddot{e}PSP\acute{r}C\tilde{H}PsPjPsPj PjP^{\circ}P\gg CHP^{\circ}P\pm C\acute{I}PsC\tilde{H}P\pm C\ddagger C-C-$
 $\ddot{P}iP\gg C\tilde{H}PePsP\cdot P\ddot{e} C- \ddot{P}iP^{\circ}P\gg P^{\circ}PeC, PsP\cdot P\ddot{e}$ ($C\tilde{H}C-PrPeC-C\acute{I}PSC- C\acute{I}\ddot{P}iP^{\circ}PrPePsPIC-$
 $P\cdot P^{\circ}C...PIP_sC\tilde{H}CHPIP^{\circ}PSPSC\sqcup$).

$P\cdot P\gg P_{\mu}PeC, C\tilde{H}PsP\gg C-C, PSC- \ddot{P}iPsC\tilde{H}C\acute{a}C\epsilon P_{\mu}PSPSC\sqcup, PsC\acute{I}PsP\pm P\gg P\ddot{e}PIPs$
 $\ddot{P}iC-\ddot{P}iPsPeP^{\circ}P\gg C-C''PjC-C\sqcup$: $PIP^{\circ}P\parallel P\gg P\ddot{e}PIPs PIC\tilde{H}P^{\circ}C...PsPIC\acute{r}PIP^{\circ}C, P\ddot{e} P\pm C\acute{r}PrCH\ddot{H}-C\sqcup PeC\acute{r}$
 $C\acute{I}P\ddot{e}C, C\acute{r}P^{\circ}C\ddagger C-CH$, $\ddot{P}iC\tilde{H}P\ddot{e} C\sqcup PeC-PN_{\mathbb{B}} C\acute{r} \ddot{P}iP^{\circ}C\ddagger C-C''PSC, P^{\circ} PjPsP\parallel P_{\mu} P\pm C\acute{r}C, P\ddot{e}$
 $C\tilde{H}P\ddot{e}P\cdot P\ddot{e}Pe PIP\ddot{e}PSP\ddot{e}PePSP_{\mu}PSPSC\sqcup \ddot{P}iC-\ddot{P}iPsPeP^{\circ}P\gg C-C''PjC-C-$, $PsC\acute{I}PeC-P\gg CH\ddot{H}PeP\ddot{e}$
 $\ddot{P}iC-\ddot{P}iPsPeP^{\circ}P\gg C-C''PjC-C\sqcup PjPsP\parallel P_{\mu} \ddot{P}iC\tilde{H}PsPIPsPeC\acute{r}PIP^{\circ}C, P\ddot{e}$
 $\ddot{P}iC\tilde{H}PsP^{\circ}C\tilde{H}P\ddot{e}C, PjPs\ddot{P}iP_{\mu}PSPSC- P_{\mu}C,, P_{\mu}PeC, P\ddot{e}$. $P''C-\ddot{P}iPsPeP^{\circ}P\gg C-C''PjC-CH$
 $PSP_{\mu}PsP\pm C...C-PrPSPs C\acute{r}C\acute{I}C\acute{r}PSC\acute{r}C, P\ddot{e} PrPs \ddot{P}iPsC\ddagger P^{\circ}C, PeC\acute{r}$
 $P\cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC\sqcup P^{\circ}PjC-PsPrP^{\circ}C\tilde{H}PsPSC\acute{r}$.

Pj C₇H₉PuC, C₇H₉PsCíPíP_uPeC, PëPIPSPëC... PrPsCíP»C-PrP¶P_uPSPSC¼C... Cí
C₇H₉PuC†PëPiC-C”PSC, C-PI C, C₇H₉P°PSCíPíP»P°PSC, P°C, P° P·P°CíC, PsCíCíPíP°PSPSC¼
P°PjC-PsPrP°C₇H₉PsPSCí PíP_uC₇H₉PuPr PíPëPePsPSP°PSPSC¼Pj C, C₇H₉P°PSCíPíP»P°PSC, P°C†C-C—

$P\bar{K}P^{\circ}PrPjC-C\bar{H}PSP^{\circ}PeC-P\gg CHPeC-C\bar{I}C,CHPN\bar{e}PsPrCr, C\%PsPSP^{\circ}PrC...PsPrP\bar{e}C,CHPrPs$
 $PsC\bar{H}PiP^{\circ}PSC-P\cdot PjCrPiC\bar{H}P\bar{e}P\cdot P^{\circ}C\bar{I}C,PsC\bar{I}CrPIP^{\circ}PSPSC-PrP^{\circ}PSPsPiPs$
 $P\gg C-PeP^{\circ}C\bar{H}C\bar{I}CHPePsPiPsP\cdot P^{\circ}C\bar{I}PsP\pm Cr,PIPiP_{\mu}C\bar{H}C-PsPrPiC\bar{H}P\bar{e}PN\bar{e}PsPjCr$
 $PiC\bar{H}P_{\mu}PiP^{\circ}C\bar{H}P^{\circ}C,CrPjPsP\Pi P_{\mu}PiC\bar{H}P\bar{e}P\cdot PIP_{\mu}C\bar{I}C,P\bar{e}PrPsPIP\bar{e}PSP\bar{e}PePSP_{\mu}PSPSC\Pi$
 $PiC-PiPsC,P\bar{e}C\bar{H}P_{\mu}PsP\cdot CrCrPiP\gg PsPrP^{\circ}P^{\circ}P\pm PsPSP^{\circ}PIC-C,CHPrPsC\bar{H}PsP\cdot PIP\bar{e}C,PeCr$
 $PeP\gg C-PSC-C\ddagger PSPsC-PeP^{\circ}C\bar{H}C,P\bar{e}PSP\bar{e}PiC-PiPsC,P\bar{e}C\bar{H}P_{\mu}PsP\cdot CrPiP\gg PsPrP^{\circ}(C\bar{H}PsP\cdot PIP\bar{e}C,PsPe$
 $P\cdot PsP\pm P^{\circ})$.

$$\begin{aligned} & \text{P}\tilde{\text{h}}\text{PjC}-\text{PsPrP}^{\circ}\text{C}\tilde{\text{h}}\text{PsPS C,P}^{\circ}\text{P}\tilde{\text{N}}\text{PsPiPs PjP}\mu\text{C,P}^{\circ}\text{P}\pm\text{PsP}\gg\text{C-C,P}\tilde{\text{e}}\text{PSP}\mu\text{PIP}\tilde{\text{e}}\text{PIPsPrC}\sqcup\text{C,C}\tilde{\text{h}}\text{C}\tilde{\text{f}}\text{C}\sqcup\text{P}\cdot\text{P}^{\circ} \\ & \text{PrPsPiPsPjPsPiPsC}\tilde{\text{h}}\text{PrC}-\text{P}^{\circ}\text{P}\gg\text{C-P}\cdot\text{Cr}. \end{aligned}$$

PrCrP¶Pµ C‡P°CÍC,Ps (≥ 10 %); C‡P°CÍC,Ps (≥ 1 %, < 10 %); PSPµC‡P°CÍC,Ps (≥ 0,1 %, < 1 %); C¶C-CrPePs (≥ 0,01 %, B < 0,1%); PrCrP¶Pµ C¶C-CrPePs (< 0,01 %), C‡P°CÍC,PsC,P° PSPµPIC-PrPsPjP° (PSPµPjPsP¶P»PëPIPs PsC‡C-PSPëC,Pë P·P° PSP°C¶PIPSPëPjPë PrP°PSPëPjPë).

$P^{\circ}C\hat{2}P\Pi P\mu C\hat{2}P^{\circ}C\hat{1}C,Ps.$ P Σ C-PeC $\hat{2}$ PsPrP μ PiPsP-P $\hat{2}$ C,P $\hat{2}$ Cr C $\hat{2}$ PsPiC-PIC $\hat{+}$ C-, PjP $\circ$ P Σ P Π P μ Cr PIC $\hat{1}C$ -C... PrPsC $\hat{2}$ PsC $\hat{1}P$ »P $\hat{2}$ C... PsC $\hat{1}C$ -P $\pm$, P-P $\circ$ P-PIP $\hat{2}$ C $\hat{+}$ P $\circ$ P Σ P-PSP $\circ$ C...PsPrC Π C,C $\hat{2}$ C $\hat{1}C$ Π Cr PjP μ P Π P $\circ$ C... PrC-P»C Π PSPeP $\hat{2}$ PiC-Pr P-C-PSP $\hat{2}$ C $\hat{+}$ P μ C $\hat{2}$, C Π PeC- PSP μ PIP $\hat{2}$ PjP $\circ$ PiP $\circ$ C $\hat{2}$ C,C $\hat{2}$ PIC-PrPjC-PSP $\hat{2}$ P $\circ$ PjC-PsPrP $\circ$ C $\hat{2}$ PsPSCr. Pj PIP $\hat{2}$ PeP»C $\hat{2}$ C $\hat{+}$ PSP $\hat{2}$ C... PIP $\hat{2}$ PiP $\circ$ PrPeP $\circ$ C... PIPsPSP $\hat{2}$ P $\circ$ C $\hat{1}$ PsC $\hat{+}$ C-P Σ PsPIP $\circ$ PSC- P- PePsP»C $\hat{2}$ PsC $\hat{2}$ PsPIP $\hat{2}$ PjP $\hat{2}$ PiP $\circ$ P»Ps PI PsC $\hat{1}P$ »C-PiP»C $\hat{2}$ C $\hat{2}$ C $\hat{+}$ PsPjCr C $\hat{1}$ PIC-C,P»C- P $\circ$ P $\pm$ Ps C-P- P-P $\circ$ C,CrPjP $\circ$ PSP μ PSPSC Π Pj P-PsC $\hat{2}$ Cr.

$P''C\dot{Z}P\Pi P\mu C\dot{H}C-PrPePs$. $P\dot{K}P\mu PN\dot{C}H\dot{P}S\dot{P}P^{\circ}C,C-Cl\dot{P}P\cdot PsC\dot{H}P\dot{S}PIP\dot{S}PiPsPSP\mu C\dot{H}PIP^{\circ}$ ($PSP\mu PIC\dot{H}P\dot{P}C$, $P\cdot PsC\dot{H}P\dot{S}PIP\dot{S}PiPsPSP\mu C\dot{H}PIP^{\circ}$), $B P\cdot PSP\mu C\dot{+}C-C,PeC-C\dot{I}^{\circ}C,C\dot{H}C,P^{\circ}PiPsPiC-C\dot{H}C\dot{E}P\mu PSPSC\dot{I}Pj$
 $P\cdot PsC\dot{H}C\dot{r},P^{\circ}C,P^{\circ}PePsP\Pi,P\cdot P^{\circ}C\dot{H}P\mu P\cdot CrP\gg CH\dot{C},P^{\circ}C,P^{\circ}PjP\ddot{e}PsPiP\gg C\dot{I}PrC\dot{r}PsC\dot{+}PSP\dot{S}PiPsPrPSP^{\circ}$,
 $P\cdot PSP^{\circ}P\pm C\dot{H}C\dot{I}PePsPjC\dot{I}PsC\dot{I}PeP^{\circ}P\cdot PsC\dot{H}P\dot{S}PIP\dot{S}PiPsPSP\mu C\dot{H}PIP^{\circ}$, $C\%PsPjPsP\Pi P\mu$
 $P\dot{I}C\dot{H}P\dot{S}PiC\dot{H}P\mu C\dot{I}C\dot{r}PIP^{\circ}C,P\ddot{e}PrPsP\pm C-P\gg CH\dot{C}\dot{E}P^{\circ}P\pm PsPjP\mu PSC\dot{E}C,C\dot{I}P\Pi PePsPiPs$
 $P\cdot PSP\ddot{e}P\Pi P\mu PSPSC\dot{I}PiPsC\dot{I}^{\circ}C,C\dot{H}PsC,P\ddot{e}P\cdot PsC\dot{H}C\dot{r}$. $P\mu C\dot{H}P\ddot{e}C\dot{+}P\ddot{e}PSPSP\dot{S}$ -
 $PSP^{\circ}C\dot{I}^{\circ}P\gg C-PrPePsPIP\ddot{e}PN\dot{C}P\cdot P\dot{I}\dot{B}\dot{H}^{\text{TM}}C\dot{I}P\cdot PsPeC\dot{+}CH\dot{B}PsPiPsPiPsP\pm C-C\dot{+}PSP\dot{S}PiPsC\dot{I}PIP\ddot{e}C\%P^{\circ}P\cdot$
 $P\dot{I}C\dot{H}P\ddot{e}PN\dot{C}PsPjPsPjP^{\circ}PjC-PsPrP^{\circ}C\dot{H}P\dot{S}PSC\dot{r}PSP^{\circ}C\dot{I}CH\dot{B}PsPiPsPrPSC-C\dot{E}PSC-PN\dot{C}PrP\mu PSC\dot{H}PSP\mu$
 $PIC\dot{I}^{\circ}C,P^{\circ}PSP\dot{S}PIP\gg P\mu PSP\ddot{e}PN\dot{C}$. $P\mu C\dot{H}PsC,P\mu CrC\dot{H}P^{\circ}P\cdot C-PIC-PrC\dot{I}C\dot{r}C,PSP\dot{S}C\dot{I}^{\circ}C,C-C-PSC\dot{E}P\ddot{e}C...$
 $PsC\dot{+}P\mu PIP\ddot{e}PrPSP\ddot{e}C...P\dot{I}C\dot{H}P\ddot{e}C\dot{+}P\ddot{e}PSC\dot{H}PsP\cdot PIP\ddot{e}C,PeC\dot{r}C\dot{+}CH\dot{B}PsPiPsPiPsP\pm C-C\dot{+}PSP\dot{S}PiPs$
 $C\dot{I}PIP\ddot{e}C\%P^{\circ}C\dot{H}P\mu PePsPjP\mu PSPPrPsPIP^{\circ}PSP\dot{S}PIC-PrPjC-PSP\ddot{e}C,P\ddot{e}P^{\circ}PjC-PsPrP^{\circ}C\dot{H}PsPS$.

$$\frac{P \cdot P_s P \cdot P \gg P^\circ P r P \ddot{e} \cdot P \cdot P \pm P_s P e C r' C \epsilon P e C - C \bar{h} P \ddot{e} \cdot C, P^\circ \ddot{P} i C - P r C \epsilon P e C - C \bar{h} P S P s C - P e P \gg C - C, P e P s P i P \ddot{e} P S P \ddot{e} .}{}$$

P''CzP¶Pµ C‡P°CÍC,Ps. P‡PsC,PsCÍPµPSCÍPëP±C-P»C-P·P°C†C-CÍ.
P PµPePsPjPµPSPPrPsPIP°PSPs CÍPSPëPeP°C,Pë PIPiP»PëPICr CÍPsPSCÍC‡PSPsPiPs
PIPëPiC¶PjC-PSC¶PIP°PSPSCÍ (C,P° CÍP»CHC,C¶P°C,,C-PsP»PµC,PsPIPpsPiPs
PIPëPiC¶PjC-PSC¶PIP°PSPSCÍ PI C†C-P»PsPjCÍ) PiC-Pr C‡P°CÍ P»C-PeCÍPIP°PSPSCÍ
PiC¶PµPiP°C¶P°C,PsPj.

*P§P°CÍC,Ps. PµC-PiPjPµPSC,P°C†C-C— C€PeC-C¶Pë CÍPëPSC¶C€PSPsPiPs P°P±Ps
CÍPëPSC¶C€PSPs-CÍC-C¶PsPiPs PePsP»CHPsC¶CÍ, CÍPeC- PIPëPSPëPeP°C¶C,CH PSP° C,P»C-
C,C¶PëPIP°P»PsPiPs PiC¶PëPNëPsPjCÍ PIPëCÍPsPePëC... PrPsP±PsPIPëC... PrPsP·
PiC¶PµPiP°C¶P°C,CÍ C,P° PiPsPIC-P»CHPSPs P·PSPëPeP°C¶C,CH PiC-CÍP»CÍ PIC-PrPjC-PSPë
PiC¶PµPiP°C¶P°C,CÍ (PiC¶PsC,CÍPiPsPj 10-24 PjC-CÍCÍC†C-PI).*

*P''CzP¶Pµ C¶C-PrPePs. P·C¶PëC,PµPjP° PSP° C,P»C- PiC¶PsPjPµPSPµPIPsC— C,PµC¶P°PiC-C—.
PëPeC-C¶PSC- PIPëCÍPëPiP°PSPSCÍ, P·P°P·PIPëC‡P°PNë PSPµCÍPiPµC†PëC,,C-C‡PSC-.
P·PeCÍC,,PsP»C-P°C,PëPIPSPëPNë PrPµC¶PjP°C,PëC,, C...PsC‡P° PiC¶PëC‡PëPSPSPs-
PSP°CÍP»C-PrPePsPIPëPNë P·PIB¶™ CÍP·PsPe C†CHPsPiPs PiPsP±C-C‡PSPsPiPs CÍPIPëC%°P° P·
PiC¶PëPNëPsPjPsPj PiC¶PµPiP°C¶P°C,CÍ PSP° CÍCHPsPiPsPrPSC-C€PSC-PNë PrPµPSC¶
C‡C-C,PePs PSPµ PICÍC,P°PSPsPIP»PµPSPëPNë. P¶P»PsPiPµC†C-CÍ.*

*P§P°CÍC,PsC,P° PSPµPIC-PrPsPjP°: P·PeP·PµPjP°. PÿCÍP¶PeC-, C-PSPsPrC-
CÍPjPµC¶C,PµP»CHPSC-, C€PeC-C¶PSC- C¶PµP°PeC†C-C—, CÍ C,PsPjCÍ C‡PëCÍP»C-
C,PsPeCÍPëC‡PSPëPNë PµPiC-PrPµC¶PjP°P»CHPSPëPNë PSPµPeC¶PsP»C-P· (CÍPëPSPrC¶PsPj
P»P°PNëC°P»P°) C,P° CÍPëPSPrC¶PsPj PÿC,C-PIPµPSCÍP°-P°P¶PsPSCÍPsPSP°.
P·CÍP»CHPsP·PSPëPNë PrPµC¶PjP°C,PëC,. PÿPëPSPrC¶PsPj DRESS
(PjPµPrPëPeP°PjPµPSC,PsP·PSPµ PIPëCÍPëPiP°PSPSCÍ P· PµPsP·PëPSPsC,,C-P»C-C°C¶ C,P°
CÍPëCÍC,PµPjPSPsC¶ CÍPëPjPiC,PsPjP°C,PëPePsC¶).*

P·PSPPrPsPeC¶PëPSPSC- C¶PsP·P»P°PrPë.

P PsP·P»P°PrPë P· P±PsPeCÍ PµPSPPrPsPeC¶PëPSPSPsC— CÍPëCÍC,PµPjPë.

PµPsP±C-C‡PSC- PµC,,PµPeC,Pë P· P±PsPeCÍ C%°PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë.

*P''CzP¶Pµ C‡P°CÍC,Ps. P—P° PIPëPSCÍC,PePsPj PIPëPiP°PrPeC-PI, PePsP»Pë PiC¶PëCÍCÍC,PSC-
PeP»C-PSC-C‡PSC- PsP·PSP°PePë PrPëCÍC,,CÍPSPeC†C-C— C%°PëC,PsPIPëPrPSPsC—
P·P°P»PsP·Pë, B«PSPµ PiPsPIB¶™ CÍP·P°PSC- P· PiC¶PëPNëPsPjPsPj PiC¶PµPiP°C¶P°C,CÍB»
P·PjC-PSPë P· P±PsPeCÍ PIPjC-CÍC,CÍ PiPsC¶PjPsPSC-PI C%°PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë
CÍ PeC¶PsPIC- (P·P±C-P»CHC€PµPSPëPNë C¶C-PIPµPSC¶ T4, PSPsC¶PjP°P»CHPSPëPNë P°P±Ps
PrPµC%°Ps P·PjPµPSC€PµPSPëPNë C¶C-PIPµPSC¶ T3) PSPµ PIPëPjP°PiP°C¶C,CH
PIC-PrPjC-PSPë PiC¶PµPiP°C¶P°C,CÍ.*

*P§P°CÍC,Ps. P°C-PiPsC,PëC¶PµPsP· PsP±CÍPjPsPIP»C¶C° C,PëPiPsPIC- CÍPëPjPiC,PsPjPë:
P·P±C-P»CHC€PµPSPSCÍ PjP°CÍPë C,C-P»P°, PSPµPiPµC¶PµPSPsCÍPëPjC-CÍC,CH
C...PsP»PsPrCÍ, P°PiP°C,C-CÍ, CÍPsPSP»PëPIC-CÍC,CH. P—PSP°C‡PSPµ
PiC-PrPIPëC%°PµPSPSCÍ C¶C-PIPSC-PI PÿPÿP° PiC-PrC,PIPµC¶PjP°P¶CÍC° C†PµPNë
PrC-P°PiPSPsP·. PµC-CÍP»CÍ PiC¶PëPiPëPSPµPSPSCÍ P»C-PeCÍPIP°PSPSCÍ
PiC¶PµPiP°C¶P°C,PsPj PSPsC¶PjP°P»CHPSP° C,,CÍPSPeC†C-CÍ C%°PëC,PsPIPëPrPSPsC—
P·P°P»PsP·Pë PiPsCÍC,CÍPiPsPiPs PIC-PrPSPsPIP»C¶C°C,CHCÍCÍ PIPiC¶PsPrPsPIP¶
PiPµC¶C-PsPrCÍ PIC-Pr 1 PrPs 3 PjC-CÍCÍC†C-PI. P·C-PrPjC-PSP° PiC¶PµPiP°C¶P°C,CÍ PSPµ
PsP±PsPIB¶™ CÍP·PePsPIP°: CÍ PIPëPiP°PrPeCÍ, PePsP»Pë P·P°CÍC,PsCÍCÍPIP°PSPSCÍ*

P°PjC-PsPrP°CḡPsPSCr PSPμPsP±C...C-PrPSPμ, P»C-PeCfPIP°PSPSCl C†PëPj
PiCḡPμPiP°CḡP°C,PsPj PjPsP¶PSP° PiCḡPsPrPsPIP¶CfPIP°C,Pë Cr PePsPjP±C-PSP°C†C-C— C-P·
P·P°PjC-C†PSPsCḡ PiPsCḡPjPsPSP°P»CHbPSPsCḡ C,PμCḡP°PiC-C”Cḡ PiPsCḡPjPsPSP°PjPë
C%oPëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë C-P· P·P°C†C,PsC†CfPIP°PSPSClPj
P»PμPIPsC,PëCḡPsPeC†PëPSCr. P”PsP·Pë L-C,PëCḡPsPeC†PëPSCr PjPsP¶CfC,Ch P±CfC,Pë
PIC-PrPePsCḡPëPiPsPIP°PSC-B P·P°P»PμP¶PSPs PIC-Pr CḡC-PIPsC-PI PÿPÿP”.

P”C-PiPμCḡC,PëCḡPμPsP· PIC†C,P°PSPsPIPëC,Pë PIP°P¶C†Pμ: C†PëPjPiC,PsPjP°C,PëPeP°
PjPμPSC€ PIPëCḡP°P¶PμPSP° (PSPμP·PSP°C†PSPμ P·PjPμPSC€PμPSPSCl PjP°C†Pë C,C-P»P°,
C%oPs PSPμ PjP°C” PiCḡPëC†PëPSPë, PSPμPrPsC†C,P°C,PSCl PμC,,PμPeC,PëPIPsC-C†C,Ch
P°PSC,PëP°PSPiC-PSP°P»CHbPSPëC... C,P°/P°P±Ps P°PSC,PëP°CḡPëC,PjC-C†PSPëC...
P»C-PeP°CḡC†ChPePëC... P·P°C†PsP±C-PI); Cr PiP°C†C-C”PSC,C-PI P»C-C,PSChPsPiPs
PIC-PeCf C†PiPsC†C,PμCḡC-PiP°CḡC,ChC†Cl PiC†PëC...C-C†PSC- C†PëPjPiC,PsPjPë,
PSP°PIC-C,Ch C,PëCḡPμPsC,PsPeC†PëPePsP·.

P—PSP°C†PSPμ P·PSPëP¶PμPSPSCl CḡC-PIPsC-PI PIPëC†PsPePsC†CfC,P»PëPIPsPiPs PÿPÿP”
PiC-PrC,PIPμCḡPrP¶CfC” C†PμPNë PrC-P°PiPSPsP·. Pj C,P°PePsPjCr PIPëPiP°PrPeCf
PSPμPsP±C...C-PrPSPs PsP±PsPIbḡ™ ClP·PePsPIPs PIC-PrPjC-PSPëC,Pë P°PjC-PsPrP°CḡPsPS,
C†PsPiPs, ClPe PiCḡP°PIPëP»Ps, PrPsC†C,P°C,PSChPs PrP»Cl PSP°C†C,P°PSPSCl
PeP»C-PSC-C†PSPsC— PSPsCḡPjP°P»C-P·P°C†C-C— PiCḡPsC,ClPiPsPj 3-4 C,PëP¶PSC-PI.
PhC†PeC-P»CHbPePë C†PμCḡPNëPsP·PSC- PIPëPiP°PrPePë C†ChPsPiPs PiPsP±C-C†PSPsPiPs
ClPIIPëC%oP° PjPsP¶CfC,Ch P±CfC,Pë P»PμC,P°P»CHbPSPëPjPë, PSPμPsP±C...C-PrPSPs
PSPμPIC-PrPeP»P°PrPSPs CḡPsP·PiPsC†P°C,Pë PSP°P»PμP¶PSCr C,PμCḡP°PiC-Cḡ.

Pj PIPëPiP°PrPeCf, PePsP»Pë PiCḡPëC†PëPSPsCḡ PiCḡPsP±P»PμPj C”
C,PëCḡPμPsC,PsPeC†PëPePsP· (ClPe P±PμP·PiPsC†PμCḡPμPrPSChPs, C,P°Pe C- C†PμCḡPμP·
PNëPsPiPs PIPiP»PëPI PSP° C†CḡP°P·P»PëPICr CḡC-PIPsPsPIP°PiCr PjC-PsPeP°CḡPrP°),
PIP°CḡC-P°P±PμP»CHbPSC-C†C,Ch PμC,,PμPeC,PëPIPsC†C,C- C†PëPSC,PμC,PëC†PSPëC...
P°PSC,PëC,PëCḡPμPsC—PrPSPëC... PiCḡPμPiP°CḡP°C,C-PI PsP±CfPjPsPIP»CḡC”
PSPμPsP±C...C-PrPSC-C†C,Ch CḡPμPePsPjPμPSPPrCfPIP°C,Pë PiCḡPëPNëPsPj PIPëC†PsPePëC...
PrPsP· PePsCḡC,PëPePsC†C,PμCḡPsC—PrC-PI (1 PjPi/PePi) PiCḡPsC,ClPiPsPj
PrPsC†C,P°C,PSChPs C,CḡPëPIP°P»PsPiPs PiPμCḡC-PsPrCr (3 PjC-C†ClC†C-PI).
PμPsPIC-PrPsPjP»ClP»PsC†Cl PiCḡPs PIPëPiP°PrPePë PiC-PiPμCḡC,PëCḡPμPsP·Cr
C,CḡPëPIP°P»C-C†C,Ch PrPs PeC-P»CHbPePsC... PjC-C†ClC†C-PI PiC-C†P»Cl PIC-PrPjC-PSPë
P°PjC-PsPrP°CḡPsPSCr.

P†PSC€C- PμPSPPrPsPeCḡPëPSPSC- CḡPsP·P»P°PrPë.

P”CfP¶Pμ CḡC-PrPeC-C†PSC- PIPëPiP°PrPePë PÿP¶PÿPḡP” (C†PëPSPPrCḡPsPjCr
PSPμP°PrPμPePIP°C,PSPsC— C†PμPeCḡPμC†C-C— P°PSC,PëPrC-C†CḡPμC,PëC†PSPsPiPs
PiPsCḡPjPsPSCr), PsC†PsP±P»PëPIPs ClPeC%oPs P°PjC-PsPrP°CḡPsPS
P·P°C†C,PsC†PsPICrCḡC,Ch PsPrPSPsC†P°C†PSPs P· P»C-PeP°CḡC†ChPePëPjPë
P·P°C†PsP±P°PjPë, ClPeC- PjPsP¶CfC,Ch C-PSPPrCfPeCfPIP°C,Pë
PiC-PiPsPSP°C,CḡC-C”PjC-Cḡ. PÿP°PePsP¶ PrPëPI. B«P PμP·CfP»CHbC,P°C,Pë
PrPsC†P»C-PrP¶PμPSChB».

P PsP·P»P°PrPë P· P±PsPeCf CḡPμC†PiC-CḡP°C,PsCḡPSPsC— C†PëC†C,PμPjPë.
PiCḡCrPrPSPsC— PeP»C-C,PePë C,P° C†PμCḡPμPrPsC†C,C-PSPSCl.

P\$P°C†C,Ps. PμPsPIC-PrPsPjP»ClP»PsC†Cl PiCḡPs PIPëPiP°PrPePë PrPëC,,CfP·PSPsPiPs

PkPμC#P°CΓC,Ps. P_{HC}-P_SPiP°C,C-Cl. P_μP_μC₇P₆C,,P_μC₇P₆C±PSP° CΓP_μPSCΓP_SC₇PSP°, PjP_SC,P_SC₇PSP° P°P±P_S P·PjC-C€P°PSP° PSP_μPN₆C₇P_SPiP°C,C-Cl C,P° PjC-P_SPiP°C,C-Cl PjP_SP¶CΓC,CH C₇P_SP·PiP₆PSCΓC,P₆CΓC C±P_μC₇P_μP· PeC-P»CHPeP° PjC-CΓCΓCΓC-PI P»C-PeCΓPiP°PSPSCΓ, P°P»P_μ C-PSP_SPrC- PiP_SPSP₆ PiP₆PSP₆PeP°C₇C,CH C±P_μC₇P_μP· PeC-P»CHPeP° C₇P_SPeC-PI. PjC- PiP_SP±C-C±PSC- ClPiP₆C%P°, ClPe PiC₇P°PiP₆P»Ps, PsP±P_SC₇P_SC,PSC- PiC-CΓP»Cl PiC₇P₆PiP₆PSP_μPSPSCΓ P»C-PeCΓPiP°PSPSCΓ. P_μC₇P_SC,P_μ PsPrCΓP¶P°PSPSCΓ PjP_SP¶P_μ P±CΓC,P₆ PSP_μPiP_SPIPS₆Pj, PrCΓP¶P_μ PiP_SPIC-P»CHPSP₆Pj C,P° CΓPiP_SCΓC,P_μC₇C-PiP°C,P₆CΓC P»P₆C€P_μ C±P_μC₇P_μP· PeC-P»CHPeP° PjC-CΓCΓCΓC-PI PiC-CΓP»Cl PiC₇P₆PiP₆PSP_μPSPSCΓ PiC₇P₆PN₆PsPjCΓ PiC₇P_μPiP°C₇P°C,CΓ.

P°CzP¶Pμ C7C-PrPePs. P_{HC}PsP·P_SC±PePsPiP° P°C,P°PeCΓC-Cl. P°PsP±C₇P_SClPeC-CΓPSP° PiPSCΓC,C₇C-C€P_SCH_SC±P_μC₇P_μPiPSP° PiC-PiP_μC₇C,P_μPSP·C-Cl, PiP_SP»PsPiPSP₆PN₆ P±C-P»CH. P_μC₇P₆ PiP₆PSP₆PePSP_μPSPSC- C-P·PsP»CHPsPiP°PSP_SPiP_S PiP_SP»PsPiPSP_SPiP_S P±PsP»C₇ PSP_μPsP±C...C-PrPSP_S PiP₆PePsPSP°C,P₆ PsP±CΓC,P_μP¶P_μPSPSCΓ PrP»Cl PiP₆P·PSP°C±P_μPSPSCΓ C—C— PjP_SP¶P»P₆IP_SC— PiC₇P₆C±P₆PSP₆.

P_SP°CΓC,PsC,P° PSP_μPIC-PrPsPjP°:

P₇P₆PSP₇C₇P_SPj PiP°C₇PeC-PSCΓPsPSC-P·PjCΓ, PiP°C₇P_SCΓPjC-Cl.

-

P PsP·P»P°PrP₆ P· P±PsPeCΓ PiP_μC±C-PSP₆P₆ C,P° P¶PsPIC±PsPiP₆PIC-PrPSP₆C... C€P»ClC...C-PI.

P_μPsPIC-PrPsPjP»ClP»PsCΓC PiC₇P_S PiP₆PiP°PrPeP₆ CΓC₇P°P¶P_μPSPSCΓ PiP_μC±C-PSP₆P₆; CΓC- PiP₆PiP°PrPeP₆ PrC-P°PiPSP_SCΓC,CΓPiP°P»P₆CΓC P·P° PiC-PrPiP₆C%P_μPSP₆PjP₆ C₇C-PIPS₆PjP₆ C,C₇P°PSCΓP°PjC-PSP°P· CΓ CΓP₆C₇P_SPiP°C,CΓC- PeC₇P_SPIC-. P_μPsPIC-PrPsPjP»ClP»PsCΓC PiC₇P_S PSP°CΓC,CΓPiPSC- PiP_SP±C-C±PSC- ClPiP₆C%P°:

P°CzP¶Pμ C#P°CΓC,Ps. P—P°P·PiP₆C±P°PN₆ PiP_SPjC-C₇PSP_μ C,P° C-P·PsP»CHPsPiP°PSP_μ PiC-PrPiP₆C%P_μPSPSCΓ C₇C-PIPS₆-PI C,C₇P°PSCΓP°PjC-PSP°P· (CΓ 1,5-3 C₇P°P·P₆ PiP₆C%P_μ PSP_SC₇PjP₆), ClPeP_μ P·PSP₆PeP°P»Ps PiC-CΓP»Cl P·PjP_μPSC€P_μPSPSCΓ PrPsP·P₆ PiC₇P_μPiP°C₇P°C,CΓ P°P±P_S PSP°PIC-C,CH CΓPiP_SPSC,P°PSPSP_S.

P_SP°CΓC,Ps. P°PsCΓC,C₇P_μ CΓC₇P°P¶P_μPSPSCΓ PiP_μC±C-PSP₆P₆ P· PiC-PrPiP₆C%P_μPSPSCΓPj C₇C-PIPS₆-PI C,C₇P°PSCΓP°PjC-PSP°P· CΓ CΓP₆C₇P_SPiP°C,CΓC- PeC₇P_SPIC- C,P°/P°P±P_S P· P¶PsPIC,ClPSP₆C±P_μCH, PiPeP»C₇C±P°C₇C±P₆ PiP_μC±C-PSP₆PsPICΓ PSP_μPrPsCΓC,P°C,PSC-CΓC,CH, C-PSP_SPrC- P»P_μC,P°P»CHPSP_μ, ClPeP_μ PiP₆PjP°PiP°C° PIC-PrPjC-PSP₆ PiC₇P_μPiP°C₇P°C,CΓ.

P°CzP¶Pμ C7C-PrPePs. PΓC₇P_SPSC-C±PSP_μ CΓC₇P°P¶P_μPSPSCΓ PiP_μC±C-PSP₆P₆, ClPeP_μ PiP₆PjP°PiP°C° C,C₇P₆PiP°P»PsPiP_S P»C-PeCΓPiP°PSPSCΓ. P°C-CΓC,PsP»PsPiC-C±PSC- P·PjC-PSP₆ PIC-PrPiP_SPIC-PrP°C₇C,CH PeP°C₇C,P₆PSC- PiCΓP_μPIPrPsP°P»PePsPiP_SP»CHPSP_SPiP_S PiP_μPiP°C,P₆C,CΓ P°P±P_S CΓP₆C₇P_SP·CΓ PiP_μC±C-PSP₆P₆. PhCΓPeC-P»CHPeP₆ PeP»C-PSC-C±PSC- C,P° P»P°P±P_SC₇P°C,PsC₇PSC- PsP·PSP°PeP₆ PSP_μ C±C-C,PePs PiP₆C₇P°P¶P_μPSC- (PiP°C₇C-P°P±P_μP»CHPSP° PiP_μPiP°C,PsPjP_μPiP°P»C-Cl, PiC-PrPiP₆C%P_μPSPSCΓ C₇C-PIPS₆-PI C,C₇P°PSCΓP°PjC-PSP°P· CΓ PeC₇P_SPIC- CΓ 1,5-5 C₇P°P·C-PI P±C-P»CHC€P_μ PIC-Pr PSP_SC₇PjP₆), PiP_SPeP°P·P°PSP_μ C₇P_μPiCΓP»ClC₇PSP_μ PjP_SPSC-C,PsC₇CΓPiP°PSPSCΓ C,,CΓPSP₆CΓC-C— PiP_μC±C-PSP₆P₆. Pj PiP₆PiP°PrPeCΓ PiC-PrPiP₆C%P_μPSPSCΓ C₇C-PIPS₆-PI C,C₇P°PSCΓP°PjC-PSP°P· CΓ PeC₇P_SPIC-, PSP°PIC-C,CH PiP_SPjC-C₇PSP_SPiP_S, C%Ps PiP₆PSP₆PeP°C° PiC-CΓP»Cl

$P''C\hat{2}P\Pi P\mu C\bar{H}C-PrPePs$. $P\bullet PiC-PrP\ddot{e}PrP\ddot{e}PjC-C$,. $P\ddot{u}C\bar{H}P\ddot{e}C\ddagger P\ddot{e}PSPSPs-PSP^{\circ}C\acute{I}P\gg C-PrPePsPIP\ddot{e}PN_{\circ}$
 $P\cdot PiB\bar{H}^{\text{TM}}C\bar{I}P\cdot PsPe C\ddagger CHPsPiPs PiPsP\pm C-C\ddagger PSPsPiPs C\bar{I}PIP\ddot{e}C\%_{\circ}P^{\circ} P\cdot PiC\bar{H}P\ddot{e}PN_{\circ}PsPjPsPj$
 $C\ddagger CHPsPiPs P\gg C-PeP^{\circ}C\bar{H}C\acute{I}CHPePsPiPs P\cdot P^{\circ}C\acute{I}PsP\pm C\acute{r} PSP^{\circ} C\acute{I}CHPsPiPsPrPSC-C\epsilon PSC-PN_{\circ}$
 $PrPuPSC\bar{H} C\ddagger C-C,PePs PSPu PIC\acute{I}C,P^{\circ}PSPsPIP\gg PuPSP\ddot{e}PN_{\circ}.B$

$P\mathfrak{S}P^{\circ}C\acute{I}C,PsC,P^{\circ}PSP_{\mu}PIC-PrPsPjP^{\circ}$: $P\cdot P\mathfrak{S}P\ddot{e}P\Pi P_{\mu}PSPSC\Pi P\rangle C-P\pm C-PrPs$.

$P\ PsP\cdot P\rangle P^{\circ}PrP\ddot{e}\ P\cdot P\pm PsPeC\acute{r}\ C\acute{I}C\acute{r}PrP\ddot{e}PS$.

$P''C\acute{z}P\Pi P_{\mu}\ C\mathfrak{H}C-PrPePs$. $P'P^{\circ}C\acute{I}PeC\acute{r}P\rangle C-C,$.

$P\ P_{\mu}P\cdot C\acute{r}P\rangle CHC,P^{\circ}C,P\ddot{e}\ PrPsC\acute{I}P\rangle C-PrP\Pi P_{\mu}PSC\mathfrak{H}$.

$P\ C-PrPePs$. $P\ C-PrPeC-C\acute{I}PSC-$ $PIP\ddot{e}P\acute{I}P^{\circ}PrPeP\ddot{e}\ PiC-P\acute{I}PsPSP^{\circ}C,C\mathfrak{H}C-C''PjC-C-$ $PjPsP\Pi C\acute{r}C,CH$
 $C\acute{I}PIC-PrC\ddagger P\ddot{e}C,P\ddot{e}\ P\acute{I}C\mathfrak{H}Ps\ C\mathfrak{H}PsP\cdot PIP\ddot{e}C,PsPe\ P\check{Y}P\acute{k}P\check{Y}P\mathfrak{h}P''$.

$P''C\acute{z}P\Pi P_{\mu}\ C\mathfrak{H}C-PrPePs$. $PjC\mathfrak{H}P^{\circ}P\Pi P_{\mu}PSPSC\Pi PSP\ddot{e}C\mathfrak{H}PsPe\ P\cdot P\acute{I}C-PrPIP\ddot{e}C\%_{\circ}P_{\mu}PSPSC\Pi Pj$
 $C\mathfrak{H}C-PIPSC-PI\ PeC\mathfrak{H}P_{\mu}P^{\circ}C,P\ddot{e}PSC-PSC\acute{r}\ PI\ C\acute{I}P\ddot{e}C\mathfrak{H}PsPIP^{\circ}C,C\ddagger C-$.

$P\ PsP\cdot P\rangle P^{\circ}PrP\ddot{e}\ P\cdot P\pm PsPeC\acute{r}\ PeC\mathfrak{H}PsPIC- C,P^{\circ}\ P\rangle C-PjC,,P^{\circ}C,P\ddot{e}C\ddagger PSPsC-$
 $C\acute{I}P\ddot{e}C\acute{I}C,P_{\mu}PjP\ddot{e}$.

$P''C\acute{z}P\Pi P_{\mu}\ C\mathfrak{H}C-PrPePs$. $P''P_{\mu}PjPsP\rangle C-C,P\ddot{e}C\ddagger PSP^{\circ}\ P^{\circ}PSP_{\mu}PjC-C\Pi, P^{\circ}P\acute{I}P\rangle P^{\circ}C\acute{I}C,P\ddot{e}C\ddagger PSP^{\circ}$
 $P^{\circ}PSP_{\mu}PjC-C\Pi, C,C\mathfrak{H}PsPjP\pm PsC\ddagger P\ddot{e}C,PsP\acute{I}P_{\mu}PSC-C\Pi$.

$P\mathfrak{S}P^{\circ}C\acute{I}C,PsC,P^{\circ}PSP_{\mu}PIC-PrPsPjP^{\circ}$: $P\acute{k}P_{\mu}PN_{\mathfrak{e}}C,C\mathfrak{H}PsP\acute{I}P_{\mu}PSC-C\Pi, P^{\circ}PiC\mathfrak{H}P^{\circ}PSC\acute{r}P\rangle PsC\ddagger P\ddot{e}C,PsP\cdot$.

$P\ PsP\cdot P\rangle P^{\circ}PrP\ddot{e}\ P\cdot P\pm PsPeC\acute{r}\ C-PjC\acute{r}PSPSPsC- C\acute{I}P\ddot{e}C\acute{I}C,P_{\mu}PjP\ddot{e}$.

$P\mathfrak{S}P^{\circ}C\acute{I}C,PsC,P^{\circ}PSP_{\mu}PIC-PrPsPjP^{\circ}$. $P_{\mu}PsPIC-PrPsPjP\rangle C\Pi P\rangle PsC\acute{I}C\Pi P\acute{I}C\mathfrak{H}Ps\ PIP\ddot{e}P\acute{I}P^{\circ}PrPeP\ddot{e}$
 $P^{\circ}PSPiC-PsPSP_{\mu}PIC\mathfrak{H}PsC,P\ddot{e}C\ddagger PSPsPiPs\ PSP^{\circ}P\pm C\mathfrak{H}C\Pi PeC\acute{r}\ C,P^{\circ}/P^{\circ}P\pm Ps$
 $PeC\mathfrak{H}PsP\acute{I}P\ddot{e}PI\mathfrak{B}\mathfrak{H}^{\text{TM}}\ C\Pi PSPeP\ddot{e}$. $P\mathfrak{h}PSP^{\circ}C,,C-P\rangle P^{\circ}PeC,P\ddot{e}C\ddagger PSP\ddot{e}PN_{\mathfrak{e}}\ C\mathfrak{E}PsPe/$
 $P^{\circ}PSP^{\circ}C,,C-P\rangle P^{\circ}PeC,PsC-PrPSP^{\circ}\ C\mathfrak{H}P_{\mu}P^{\circ}PeC\ddagger C-C\Pi, PIPeP\rangle C\mathfrak{H}C\ddagger P^{\circ}C\mathfrak{H}C\ddagger P\ddot{e}\ C\mathfrak{E}PsPe$.

$P-P^{\circ}PiP^{\circ}P\rangle CH\mathfrak{P}SC- C\mathfrak{H}PsP\cdot P\rangle P^{\circ}PrP\ddot{e}$.

$P\mathfrak{S}P^{\circ}C\acute{I}C,PsC,P^{\circ}PSP_{\mu}PIC-PrPsPjP^{\circ}$. $P-P^{\circ}C,,C-PeC\acute{I}PsPIP^{\circ}PSPs\ PIP\ddot{e}P\acute{I}P^{\circ}PrPeP\ddot{e}$
 $PiC\mathfrak{H}P^{\circ}PSC\acute{r}P\rangle CH\mathfrak{P}sPjP\ddot{e}, PiPsP\rangle PsPIPSP\ddot{e}Pj\ C\ddagger P\ddot{e}PSPsPj\ PiC\mathfrak{H}P^{\circ}PSC\acute{r}P\rangle CH\mathfrak{P}sPjP\ddot{e}$
 $PeC-C\acute{I}C,PePsPIPSPiPs\ PjPsP\cdot PeC\acute{r}$.

$P_{\mu}PsC\mathfrak{H}C\acute{r}C\mathfrak{E}P_{\mu}PSPSC\Pi P\cdot P\pm PsPeC\acute{r}\ PsP\pm PjC-PSC\acute{r}\ C\mathfrak{H}P_{\mu}C\ddagger PsPIP\ddot{e}PS\ C-$
 $C...P^{\circ}C\mathfrak{H}C\ddagger C\acute{r}PIP^{\circ}PSPSC\Pi$

$P\mathfrak{S}P^{\circ}C\acute{I}C,PsC,P^{\circ}PSP_{\mu}PIC-PrPsPjP^{\circ}$: $P-PSP\ddot{e}P\Pi P_{\mu}PSPSC\Pi P^{\circ}P\acute{I}P_{\mu}C,P\ddot{e}C,C\acute{r}$.

$P_{\mu}PsC\mathfrak{H}C\acute{r}C\mathfrak{E}P_{\mu}PSPSC\Pi P\acute{I}C\acute{I}P\ddot{e}C...C-PeP\ddot{e}$

$P\mathfrak{S}P^{\circ}C\acute{I}C,Ps: P\cdot P\mathfrak{S}P\ddot{e}P\Pi P_{\mu}PSPSC\Pi P\rangle C-P\pm C-PrPs$.

*PšP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: PŸPİP»CÍC,P°PSC-CÍC,CH CÍPIC-PrPsPjPsCÍC,C-,
PjP°CĤPμPSPSCİİ, PiP°P»CHC†PëPSP°C†C-C—.*

*PμPsCĤCÍC€PμPSPSCİİ P· P±PsPeCÍ CÍPePμP»PμC, PSPs-PjBĤ™ CİIP·PsPIPSC— C,P°
CÍPiPsP»CÍC±PSPsC— C,PeP°PSPëPSPë:*

PšP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: C†PμCĤPIPSPSPëPNë PIPsPIC†P°Pe.

PŸCĤP°PIPjPë, PsC,CĤCÍC”PSPSCİİ C,P° CÍCÍPeP»P°PrPSPμPSPSCİİ PiCĤPsC†PμPrCÍCĤ.

*PšP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: PiPμCĤPIPëPSPSP° PrPëCÍC,,CÍPSPeC†C-Cİİ
C,CĤP°PSCÍPiP»P°PSC,P°C,P° PiC-CÍP»Cİİ C,CĤP°PSCÍPiP»P°PSC,P°C†C-C— CÍPμCĤC†Cİİ,
PiPsC,PμPSC†C-PNëPSPs P»PμC,P°P»CHBSPSP° (PrPëPI. CĤPsP·PrC-P» B«PhCÍPsP±P»PëPIPSCÍC,C-
P·P°CÍC,PsCÍCÍPIP°PSPSCİİB»).*

*PμPsPIC-PrPsPjP»PμPSPSCİİ PiCĤPs PiC-PrPsP·CĤCĤPIP°PSC- PiPsP±C-C†PSC-
CĤPμP°PeC†C-C—*

*PμPsPIC-PrPsPjP»PμPSPSCİİ PiCĤPs PiC-PrPsP·CĤCĤPIP°PSC- PiPsP±C-C†PSC-
CĤPμP°PeC†C-C— PiC-CÍP»Cİİ CĤPμC”CÍC,CĤP°C†C-C— P»C-PeP°CĤCÍCHPePsPiPs
P·P°CÍPsP±CÍ C” PIP°P¶P»PëPIPsCĤ PiCĤPsC†PμPrCÍCĤPsCĤ. PıPμ PrP°C” P·PjPsPiCÍ
PiCĤPsPrPsPIP¶CÍPIP°C,Pë PePsPSC,CĤPsP»CĤPIP°C,Pë
CÍPiC-PIPIC-PrPSPsC€PμPSPSCİİ PePsCĤPëCÍC,CH/CĤPëP·PëPe PrP»Cİİ C†CHPsPiPs
P»C-PeP°CĤCÍCHPePsPiPs P·P°CÍPsP±CÍ. PĤPμPrPëC†PSPëC...
PiCĤP°C†C-PIPSPëPeC-PI PiCĤPsCÍCİC,CH PiPsPIC-PrPsPjP»CİİC,Pë PiCĤPs CÍCÍC-
PiC-PrPsP·CĤCĤPIP°PSC- PiPsP±C-C†PSC- CĤPμP°PeC†C-C— C†PμCĤPμP·
PSP°C†C-PsPSP°P»CHBPSCÍ CÍPëCÍC,PμPjCÍ C,,P°CĤPjP°PePsPSP°PiP»CİIPrCÍ.*

PŸPμCĤPjC-PS PiCĤPëPrP°C,PSPsCÍC,C-. 3 CĤPsPePë.

PJPjPsPIPë P·P±PμCĤC-PiP°PSPSCİİ.

*P—P±PμCĤC-PiP°C,Pë CÍ PSPμPrPsCÍC,CÍPiPSPsPjCÍ PrP»Cİİ PrC-C,PμPNë PjC-CÍC†C-.
P—P±PμCĤC-PiP°C,Pë PI PsCĤPëPiC-PSP°P»CHBPSC-PNë CÍPiP°PePsPIC†C- PiCĤPë
C,PμPjPiPμCĤP°C,CÍCĤC- PSPμ PIPëC‰Pμ 30 °PŸ.*

PJPİP°PePsPIPeP°.

*B,, - 30 (10C...3): PiPs 10 C,P°P±P»PμC,PsPe CÍ P±P»C-CÍC,PμCĤC-, PiPs 3 P±P»C-CÍC,PμCĤPë PI
PeP°CĤC,PsPSPSC-PNë PePsCĤPsP±C†C-.*

*B,, - 30 (15C...2): PiPs 15 C,P°P±P»PμC,PsPe CÍ P±P»C-CÍC,PμCĤC-, PiPs 2 P±P»C-CÍC,PμCĤPë PI
PeP°CĤC,PsPSPSC-PNë PePsCĤPsP±C†C-.*

РљР°С,РµРіРѕСђС-СІІ РІС-РгРіСгСІРёСг. Р—Р° СђРµСІРµСІРіС,РѕРј.

Р'РёСђРѕР±РѕРёРё.

1. РћРіРµР»Р»Р°Р° РІРµР»СІРёРµРµР° РІР°РѕРѕРіРµСђС- РљС„С„, РјРіРѕСђС%РёРѕРѕР°
2. РёРћРќРёРёРіРі Р'РіРіРёРё РёРі РіРіРёРёРёРі РіРі, РёСђР°РѕСІР°СІС-СІІ

РёС-СІСІРµР·РѕР°...РѕРгРіРіРµРѕРѕРі РіРёСђРѕР±РѕРёРё С,Р° Р№РѕРіРіРѕ Р°РіСђРµРіР° РјС-СІСІРі РіСђРѕРіРіРіРі РгС-СІР»СёРѕРѕСІС,С-.

1. 2112 Р'РµСђРµСёРµРіС...Р°Р°, Р»РµРіР°С- Сг. 5, РјРіРѕСђС%РёРёРѕР°.
2. 1, СђСг РгРµ Р»СІ Р'С-СђРі, РёРёРёР'РёР Р• Р•Рё Р»РёР"Р РёР' 33565 - РёРёР Р'РёРі Р'Р»Рё РёР»Рё РёРµРі, РёСђР°РѕСІР°СІС-СІІ.

Р—Р°СІРіРіРёРё.

РёРёР' В«РёР°РѕРѕС„С-РёРіРµРіРіС,С-СІ РјРёСђР°С—РѕР»».

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