

Р†РќРЎРЎР РЈРЉРІР†РЇ

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

$$P_{\text{H}}P \quad P_{\text{h}}P''P \bullet P_{\text{H}}$$

(PRODEP)

$P\check{Y}P\in P\gg P^\circ P\Gamma$:

$PrC-C\bar{h}C\sharp P^{\circ} C\bar{h}P\mu C\sharp PsPIP\ddot{e}PSP^{\circ}$: fluoxetine;

1 PeP°PīCÍCíP»P° PjC-CÍC,PēC,CH C,,P»CíPsPeCÍPμC,PēPSCí PiC-PrCĤPsC...P»PsCĤPēPrCí
PμPePIC-PIP°P»PμPSC,PPS C,,P»CíPsPeCÍPμC,PēPSCí 20 PjPi;

$PrPsPiPsPjC-P\|PSC-C\grave{h}P\mu C\ddagger PsPIP\ddot{e}PSP\ddot{e}$: $P\gg P^{\circ}PeC, PsP\cdot P^{\circ}$, $PjPsPSPsPiC-PrC\grave{h}P^{\circ}C$;;
 $PeC\grave{h}PsC...PjP^{\circ}P\gg CH PeCrPeCrC\grave{h}CrPrP\cdot C\|PSP\ddot{e}PN_{\ddot{e}}$; $C, P^{\circ}P\gg CHPe$; $PjP^{\circ}PiPSC-C\grave{h}$
 $C\grave{h}C, P\mu P^{\circ}C\grave{h}P^{\circ}C$;; $PeC\grave{h}P\mu PjPSC-C\grave{h} PrC-PsPeC\grave{h}P\ddot{e}Pr PePsP\gg PsC-PrPSP\ddot{e}PN_{\ddot{e}}$
 $P\pm P\mu P\cdot PIPsPrPSP\ddot{e}PN_{\ddot{e}}$; $PSP^{\circ}C, C\grave{h}C-C\grave{h} PeC\grave{h}PsC...PjP^{\circ}P\gg CHPiP\gg C-PePsP\gg C\|C, (C, P\ddot{e}P\ddot{i} P\grave{h})$;

$$\text{P}^\circ\|\mu\text{P}\gg\text{P}^\circ\text{C}, \text{P}\ddot{\text{e}}\text{PSPsPIP}^\circ \text{PeP}^\circ\text{P}\dot{\text{i}}\text{C}\acute{\text{r}}\text{C}\acute{\text{r}}\text{P}\gg\text{P}^\circ \text{PjC}-\text{C}\acute{\text{r}}\text{C}, \text{P}\ddot{\text{e}}\text{C}, \text{CH}_3: \text{C}, \text{P}\ddot{\text{e}}\text{C}, \text{P}^\circ\text{PSC}\acute{\text{r}}$$
$$\text{PrC}-\text{PsPeC}\acute{\text{r}}\text{P}\ddot{\text{e}}\text{Pr} (\text{P}\cdot 171), \text{PrC}-\text{P}^\circ\text{PjP}^\circ\text{PSC}, \text{PsPIP}\ddot{\text{e}}\text{PN}_2 \text{ C}\acute{\text{r}}\text{P}\ddot{\text{e}}\text{PSC}-\text{PN}_2 (\text{P}\cdot 133).$$

P>C-PeP°CґCґCґPeP° C,,PsCґPjP°. PљP°PiCґCґP»Pө.

PhCÍPSPsPIPS- C,,C-P.PëPePs-C...C-PjC-C#PSC- PIP»P°CÍC,PëPIPsCÍC,C-: C,PIPµCĤPrC- P¶PµP»P°C,PëPSPsPIC- PeP°PĩCÍCfP»Pë B,, - 2 P· CÍPëPSC-Pj PePsCĤPĩCfCÍPsPj C,P° CÍPëPSCĤPsCĤ PeCĤPëCëPµC#PePsCĤ, P· PSP°PĩPëCÍPsPj BĤĤPRODEPБĤĤ PSP°PIPePsP»Ps PePsCĤPĩCfCÍCf CëCĤPëC,,C,PsPj P±C-P»PsPiPs PePsP»CĤPsCĤCf, PSP°PIPePsP»Ps PeCĤPëCëPµC#PePë C#PsCĤPSPëPj CëCĤPëC,,C,PsPj, PjC-CÍC,PëC,CĤ PĩPsCĤPsCëPsPe P±C-P»PsPiPs PePsP»CĤPsCĤCf.

P_αP°C₇P_jP°PePsC,P_μC₇P°P_iP_μPIC,PëC±PSP° PiC₇Cr_iP_iP°.

P_hPSC,PëPrP_μPiC_HP_μCΓ°PSC,Pë. P_лPsPr P_hPÿX N06A B03.

$P\alpha P^{\circ}C\bar{H}PjP^{\circ}P\epsilon PsP\gg PsPiC-C\bar{+}PSC-PIP\gg P^{\circ}C\bar{I}C,P\ddot{e}PIPsC\bar{I}C,C-$

$P\alpha P^{\circ}C\bar{H}PjP^{\circ}PePsPrP\bar{E}PSP^{\circ}PjC-PeP^{\circ}$. $P\alpha P^{\circ}C\bar{r}PsPeC\bar{I}P\mu C, P\bar{E}PS$ вЂ“ $PrC-C\bar{H}C\bar{+}P\bar{E}PN\bar{e}$
 $PePsPjP\bar{i}PsPSP\mu PSC$, $P^{\circ}C-PeP^{\circ}C\bar{H}C\bar{I}C\bar{H}PePsPiPs$ $P^{\circ}C\bar{I}PsP\pm C\bar{r}$ $P\mu C\bar{H}PsPrP\mu P\bar{i}$ вЂ“ C°
 $P^{\circ}PSC, P\bar{E}PrP\mu P\bar{i}C\bar{H}P\mu C\bar{I}P^{\circ}PSC, PsPj$. $P-P^{\circ}C...C-PjC-C\bar{+}PSPsC\bar{H}$ $C\bar{I}C, C\bar{H}C\bar{r}PeC, C\bar{r}C\bar{H}PsC\bar{H}$ $PIC-PS$
 $PSP\mu$ $PSP^{\circ}P^{\circ}P\mu P\bar{I}P\bar{E}C, C\bar{H}PSC-$ $PrPs$ $C, C\bar{H}P\bar{E}C\bar{+}P\bar{E}PeP^{\circ}C-C\bar{+}PSP\bar{E}C...$, $PSC-$ $PrPs$
 $C, P\mu C, C\bar{H}P^{\circ}C\bar{+}P\bar{E}PeP^{\circ}C-C\bar{+}PSP\bar{E}C...$ $P^{\circ}PSC, P\bar{E}PrP\mu P\bar{i}C\bar{H}P\mu C\bar{I}P^{\circ}PSC, C-PI$. $P\alpha P^{\circ}C\bar{r}PsPeC\bar{I}P\mu C, P\bar{E}PS$

PjP°C" P·PSP°C±PSCr P°PSC,PëPrPµPīCḡPµCfPëPIPSCr P°PeC,PëPIPSC-CfC,CH, C%Ps,
PjP°P±CrC,CH, PīPsPIbḡ™ CḡP·P°PSPs P· PīPsC,CrPḡPSPëPj CfPīPµC†PëC,,C-C±PSPëPj
C-PSPIc-P±CfPIP°PSPSCḡPj P·PIPsCḡPsC,PSPsPiPs P·P°C...PsPīP»PµPSPSCḡ
CfPµCḡPsC,PsPSC-PSCr PI CfPëPSP°PīCfP°C... PSPµPNḡCḡPsPSC-PI
C†PµPSC,CḡP°P»CHPSPsC— PSPµCḡPIPsPIPsC— CfPëCfC,PµPjPë. PαP»CfPsPeCfPµC,PëPS,
PSP° PIC-PrPjC-PSCr PIC-Pr C,CḡPëC†PëPeP»C-C±PSPëC... P°PSC,PëPrPµPīCḡPµCfP°PSC,C-PI,
C" CfP»P°P±PePëPj P°PSC,P°PiPsPSC-CfC,PsPj PjCfCfPeP°CḡPëPSPsPIPëC...,
PiC-CfC,P°PjC-PSPsPIPëC... C- P°PrCḡPµPSPµCḡPiC-C±PSPëC... CḡPµC†PµPīC,PsCḡC-PI, PīCḡPë
PNḡPsPiPs P·P°CfC,PsCfCfPIP°PSPSC- PSPµ CfPīPsCfC,PµCḡC-PiP°CḡC,CHCfCḡ
PSPµPiP°C,PëPIPSC- CḡPIPëC%P° P· P±PsPeCf CfPµCḡC†PµPIPs-CfCfPrPëPSPSPsC—
CfPëCfC,PµPjPë, P° C,P°PePsPḡ C-PSC€C- CḡPIPëC%P°, P·CfPjPsPIP»PµPSC-
P°PSC,PëC...PsP»C-PSPµCḡPiC-C±PSPsCḡ PrC-C"ḡC, C...P°CḡP°PeC,PµCḡPSC- PrP»Cḡ
C,CḡPëC†PëPeP»C-C±PSPëC... P°PSC,PëPrPµPīCḡPµCfP°PSC,C-PI. P"°PSPëC... PīCḡPs
PeP°PSC†PµCḡPsPiPµPSPSCr P°P±Ps PjCfC,P°PiPµPSPSCr PrC-Cḡ PīCḡPµPīP°CḡP°C,Cf
PSPµPjP°C".

PαP°CḡPjP°PePsPeC-PSPµC,PëPeP°.

P' CfPjPsPeC,CáPIP°PSPSCḡ: C,,P»CfPsPeCfPµC,PëPS PrPsP±CḡPµ PICfPjPsPeC,CfC"ḡC,CHCfCḡ
PīCḡPë PīPµCḡPsCḡP°P»CHPSPsPjCf PīCḡPëPNḡPsPjC-. PµCḡPëPNḡPsPj C—PḡC- PSPµ
PIPīP»PëPIP°C" PSP° P±C-PsPrPsCfC,CfPīPSC-CfC,CH PīCḡPµPīP°CḡP°C,Cf, C...PsC†P°
PjPsPḡPµ PI PrPµCḡPeC-PNḡ PjC-CḡC- P·P°C,CḡPëPjCfPIP°C,Pë PICfPjPsPeC,CfPIP°PSPSCḡ.

P PsP·PīPsPrC-P»: C,,P»CfPsPeCfPµC,PëPS P·PSP°C±PSPsCḡ PjC-CḡPsCḡ
P·PI'CḡP·CfC"ḡC,CHCfCḡ P· P±C-P»PeP°PjPë PīP»P°P·PjPë (P±C-P»Cḡ 95%) C- PjP°C"
PIPµP»PëPePëPNḡ PsP±bḡ™C"ḡPj CḡPsP·PīPsPrC-P»Cf (20bḡ"40 P»/PePi). P C-PIPSPsPIP°PḡPSC-
PePsPSC†PµPSC,CḡP°C†C-C— PI PīP»P°P·PjC- PrPsCfCḡPiP°CḡC,CHCfCḡ PīC-CfP»Cḡ
PīCḡPëPNḡPsPjCf PīCḡPµPīP°CḡP°C,Cf PīCḡPsC,CḡPiPsPj PrPµPeC-P»CHPePsC... C,PëPḡPSC-PI.
P C-PIPSPsPIP°PḡPSC- PePsPSC†PµPSC,CḡP°C†C-C— PiC-CfP»Cḡ C,CḡPëPIP°P»PsPiPs
PīCḡPëPNḡPsPjCf PīCḡPµPīP°CḡP°C,Cf P°PSP°P»PsPiC-C±PSC- PePsPSC†PµPSC,CḡP°C†C-CḡPj,
CḡPeC- CfPīPsCfC,PµCḡC-PiP°CḡC,CHCfCḡ PSP° 4bḡ"5 C,PëPḡPSC- PīCḡPëPNḡPsPjCf
PīCḡPµPīP°CḡP°C,Cf.

PḡPµC,P°P±PsP»C-P·Pj: C,,P»CfPsPeCfPµC,PëPS PjP°C" PSPµP»C-PSC-PNḡPSPëPNḡ
C,,P°CḡPjP°PePsPeC-PSPµC,PëC±PSPëPNḡ PīCḡPsC,,C-P»CH P· PµC,,PµPeC,PsPj PīPµCḡC€PsPiPs
PīCḡPsC...PsPrPḡPµPSPSCḡ C†PµCḡPµP· PīPµC†C-PSPeCf. PµCḡPë PsPrPSPsCḡP°P·PsPIPsPjCf
PīCḡPëPNḡPsPjC- 40 PjPi C,,P»CfPsPeCfPµC,PëPSCr PjP°PeCfPëPjP°P»CHPSP°
PePsPSC†PµPSC,CḡP°C†C-Cḡ PI PīP»P°P·PjC- (15bḡ"55 PSPI/PjP»)
CfPīPsCfC,PµCḡC-PiP°C"ḡC,CHCfCḡ C†PµCḡPµP· 6bḡ"8 PiPsPrPëPS. Pj PīPµC†C-PSC†C-
PjPµC,P°P±PsP»C-P·CfC"ḡC,CHCfCḡ PīPsP»C-PjPsCḡC,,PSPëPj PµPSP·PëPjPsPj CYP2D6 PrPs
P°PeC,PëPIPSPsPiPs PjPµC,P°P±PsP»C-C,Cf PSPsCḡC,,P»CfPsPeCfPµC,PëPSCr C- CḡCḡPrCf
C-PSC€PëC... PSPµC-PrPµPSC,PëC,,C-PePsPIP°PSPëC... PjPµC,P°P±PsP»C-C,C-PI.

*P'PëPIPµPrPµPSPSCḡ:*B PīPµCḡC-PsPr PSP°PīC-PIIPëPIPµPrPµPSPSCḡ
C,,P»CfPsPeCfPµC,PëPSCr CfC,P°PSPsPIPëC,CH PIC-Pr 4 PrPs 6 PrPSC-PI, PNḡPsPiPs
P°PeC,PëPIPSPsPiPs PjPµC,P°P±PsP»C-C,Cf bḡ" PIC-Pr 4 PrPs 16 PrPSC-PI.
P'PëPIPsPrPëC,CHCfCḡ PīPµCḡPµPIP°PḡPSPs PSPëCḡPeP°PjPë (60 %). PµCḡPµPīP°CḡP°C,
PIPëPrC-P»CḡC"ḡC,CHCfCḡ Cf PīCḡCfPrPSPµ PjPsP»PsPePs.

PµP°C†C-C"ḡPSC,Pë P»C-C,PSCHbPsPiPs PIC-PeCá: C,,P°CḡPjP°PePsPeC-PSPµC,PëPeP°

C„P»CfPsPeCfPµC,PëPSCf C f P·PrPsCfPsPIPëC... P»CfPrPµPNë P»C-C,PSCHbPsPiPs PIC-PeCf C”
PïPsPrC-P±PSPsCf PrPs C„P°CfPjP°PePsPeC-PSPµC,PëPePë C f PjPsP»PsPrCëPëC...
PrPsCfPsCfP»PëC... PrPsP±CfPsPIPsP»CHbC†C-PI.

PµP»C-PSC-C†PSC- C...P°CfP°PeC,PµCfPëCfC,PëPePë.

PµPsPeP°P·P°PSPSCII.

P’PµP»PëPeC- PrPµPïCfPµCfPëPIPSC- PµPïC-P·PsPrPë/CfPsP·P»P°PrPë.

PkP°PIBf™ CII·P»PëPIPs-PjP°PSC-P°PeP°P»CHbPSC- CfPsP·P»P°PrPë.

PkPµCfPIPsPIP° P±CzP»C-PjC-CII: C f C fPeP»P°PrC-B PePsPjPïP»PµPeCfPSPsC—
PïCfPëC...PsC,PµCfP°PïC-C— PrP»CII P·PjPµPSCëPµPSPSCII
PSPµPePsPSC,CfPsP»CHbPsPIP°PSPsPiPs PIP¶PëPIP°PSPSCII C—P¶C- C,P° P· PjPµC,PsCf
PsC†PëC%PµPSPSCII PePëCëPµC†PSPëPeCf.

PµCfPsC,PëPïPsPeP°P·P°PSPSCII.

PµC-PrPIPëC%PµPSP° C†CfC,P»PëPIC-CfC,CHb PrPs C„P»CfPsPeCfPµC,PëPSCf P°P±Ps PrPs
P±CfPrCHb-CII·PePëC... C-PSCëPëC... PePsPjPïPsPSPµPSC,C-PI P»C-PeP°CfCfCHbPePsPiPs
P·P°CfPsP±Cf.

PÿCII·P¶PeP° PïPµC†C-PSPePsPIP° C- PSPëCfPePsPIP° PSPµPrPsCfC,P°C,PSC-CfC,CHb,
PµPïC-P»PµPïCfC-CII, C fCfPrPsPjPSC- C fC,P°PSPë PI P°PSP°PjPSPµP·C-,
C fCfC—C†PëPrP°P»CHbPSC- PrCfPjPePë, PïP»P°CfPePsPjP°, P°C,PsPSC-CII C fPµC†PsPIPsPiPs
PjC-C...CfCfP°, PrPsP±CfPsCII·PeC-CfPSP° PïC-PïPµCfPïP»P°P·C-CII
PïPµCfPµPrPjC-C...CfCfPsPIPsC— P·P°P»PsP·Pë.

PkPrPSPsC†P°CfPSPµ P·P°CfC,PsCfCfPIP°PSPSCII P· C-PSPiC-P±C-C,PsCfP°PjPë
PjPsPSPsP°PjC-PSPsPeCfPëPrP°P·Pë (PµPµPµ) (C fPµP»PµPeC,PëPIPSC-,
PSPµCfPµP»PµPeC,PëPIPSC-), PIPeP»CHbC†P°CHbC†Pë P»C-PSPµP·PsP»C-Pr. PµCfPsPjC-P¶PsPe
PjC-P¶ P·P°PeC-PSC†PµPSPSCII·Pj C,PµCfP°PïC-C— C-PSPiC-P±C-C,PsCfP°PjPë PµPµPµ C,P°
PïPsC†P°C,PePsPj P»C-PeCfPIP°PSPSCII C„P»CfPsPeCfPµC,PëPSPsPj PïPsPIPëPSPµPS
C fC,P°PSPsPIPëC,Pë CII·Pe PjC-PSC-PjCfPj 14 PrPSC-PI. PµCfPsPjC-P¶PsPe PjC-P¶
P·P°PeC-PSC†PµPSPSCII·Pj P»C-PeCfPIP°PSPSCII C„P»CfPsPeCfPµC,PëPSPsPj C,P°
PïPsC†P°C,PePsPj P»C-PeCfPIP°PSPSCII C-PSPiC-P±C-C,PsCfP°PjPë PµPµPµ PjP°C” P±CfC,Pë
PSPµ PjPµPSCëPµ 5 C,PëP¶PSC-PI.

P—P°CfC,PsCfCfPIP°PSPSCII C f PePsPjP±C-PSP°C†C-C— P· PjPµC,PsPïCfPsP»PsP»PsPj
PïP°C†C-C”PSC,P°Pj C-P· C fPµCfC†PµPIPsCf PSPµPrPsCfC,P°C,PSC-CfC,CHb.

**P’P·P°C”PjPsPrC-CII P· C-PSCëPëPjPë P»C-PeP°CfCfCHbPePëPjPë P·P°CfPsP±P°PjPë C,P°
C-PSCëC- PIPëPrPë PIP·P°C”PjPsPrC-PNë.**

PÿP»C-Pr P±CfP°C,Pë PrPs C fPIP°PïPë C,CfPëPIP°P»PëPNë PïPµCfC-PsPr
PSP°PïC-PIPIPëPIPµPrPµPSPSCII CII·Pe C„P»CfPsPeCfPµC,PëPSCf, C,P°Pe C-

PSPsCḡC„P»CṛPsPeCḡPμC,PēPSCṛ, PīCḡPē CḡPsP·PiP»CḡPrC-
C„P°CḡPjP°PePsPrPēPSP°PjC-C‡PSPēC... C- C„P°CḡPjP°PePsPeC-PSPμC,PēC‡PSPēC...
P»C-PeP°CḡCḡCḡPePēC... PIP·P°C”PjPsPrC-PN₆ (PSP°PīCḡPēPeP»P°Pr, PīCḡPē
PīPμCḡPμC...PsPrC- P· C„P»CṛPsPeCḡPμC,PēPSCṛ PSP° C-PSCēC-
P°PSC,PēPrPμPīCḡPμCḡP°PSC,Pē).B

P†PSPiC-P±C-C,PsCḡPē PḡPḡPḡ

PμPμCḡC-PsPr PjC-P¶ PīCḡPēPīPēPSPμPSPSCḡPj PīCḡPēPN₆PsPjCṛ C-PSPiC-P±C-C,PsCḡC-PI
PḡPḡPḡ C- PīPsC‡P°C,PePsPj P»C-PeCṛPIP°PSPSCḡ PμCḡPsPrPμPīPsPj PīPsPIPēPSPμPS
CḡC,P°PSPsPIPēC,Pē PSPμ PjPμPSCēPμ 14 PrPSC-PI. PμC-CḡP»Cḡ PIC-PrPjC-PSPē
PμCḡPsPrPμPīCṛ PrPs PīPsC‡P°C,PeCṛ C,PμCḡP°PīC-C— C-PSPiC-P±C-C,PsCḡP°PjPē PḡPḡPḡ
PīPsPIPēPSPSPs PīCḡPsPN₆C,Pē PSPμ PjPμPSCēPμ 5 C,PēP¶PSC-PI. PḡCḡP¶PeC-, C-PSPsPrC- P·
P»PμC,P°P»CḡPSPēPj PeC-PSC‡PμPj CḡPμP°PeC‡C-C— (PiC-PīPμCḡC,PμCḡPjC-Cḡ,
CḡPēPiC-PrPSC-CḡC,Cḡ, PjC-PsPeP»PsPSCṛCḡ, PIPμPiPμC,P°C,PēPIPSP°
PSPμCḡC,P°P±C-P»CḡPSC-CḡC,Cḡ, CēPIPēPrPeC- P·PjC-PSPē P¶PēC,C,C”PIPēC...
PīPsPeP°P·PSPēPeC-PI C- PīPsCḡCṛCēPμPSPSCḡ PjPsP·PePsPIPēC... C„CṛPSPeC‡C-PN₆,
PIPeP»CḡC‡P°CḡC‡Pē CḡPēP»CḡPSPμ P·P±CṛPrP¶PμPSPSCḡ, PrPμP»C-CḡC-PN₆ C- PePsPjCṛ)
PIC-PrPjC-C‡P°P»Pē Cṛ PīP°C‡C-C”PSC,C-PI, CḡPeC- PīCḡPēPN₆PjP°P»Pē PμCḡPsPrPμPī Cṛ
PePsPjP±C-PSP°C‡C-C— P· C-PSPiC-P±C-C,PsCḡP°PjPē PḡPḡPḡ, P° C,P°PePsP¶ Cṛ C,PēC...,
C...C,Ps PīCḡPēPīPēPSPSCḡPI PN₆PsPiPs PīCḡPēPN₆PjP°C,Pē C- PīPsC,C-Pj PīPsC‡PēPSP°PI
C,PμCḡP°PīC-Cḡ C-PSPiC-P±C-C,PsCḡP°PjPē PḡPḡPḡ. PḡPrPSPsC‡P°CḡPSPμ
P·P°CḡC,PsCḡCṛPIP°PSPSCḡ C„P»CṛPsPeCḡPμC,PēPSCṛ P· C-PSPiC-P±C-C,PsCḡP°PjPē PḡPḡPḡ
PīCḡPsC,PēPīPsPeP°P·P°PSPμ (PrPēPI. CḡPsP·PrC-P» B«PμCḡPsC,PēPīPsPeP°P·P°PSPSCḡB»).

PḡPμC,PsPīCḡPsP»PsP»

PḡPrPSPsC‡P°CḡPSPμ P·P°CḡC,PsCḡCṛPIP°PSPSCḡ C„P»CṛPsPeCḡPμC,PēPSCṛ P·
PjPμC,PsPīCḡPsP»PsP»PsPj PīP°C‡C-C”PSC,P°Pj C-P· CḡPμCḡC‡PμPIPsCḡ
PSPμPrPsCḡC,P°C,PSC-CḡC,Cḡ PīCḡPsC,PēPīPsPeP°P·P°PSPμ (PrPēPI. CḡPsP·PrC-P»
B«PμCḡPsC,PēPīPsPeP°P·P°PSPSCḡB») C‡PμCḡPμP· P·CḡPsCḡC,P°PSPSCḡ CḡPēP·PēPeCṛ
PīPsP±C-C‡PSPēC... PμC„PμPeC,C-PI PjPμC,PsPīCḡPsP»PsP»Cṛ, C,P°PePēC... CḡPe C,CḡP¶PeP°
P±CḡP°PrPēPeP°CḡPrC-CḡC,B CḡPīCḡPēC‡PēPSPμPSPēC... PīCḡPēPiPSC-C‡PμPSPSCḡPj
PN₆PsPiPs PjPμC,P°P±PsP»C-P·PjCṛ C„P»CṛPsPeCḡPμC,PēPSPsPj.

P†PSPiC-P±C-C,PsCḡPē PḡPḡPḡ-Pḡ

PḡPμ CḡPμPePsPjPμPSPPrPsPIP°PSPs P·P°CḡC,PsCḡPsPICṛPIP°C,Pē C„P»CṛPsPeCḡPμC,PēPS Cṛ
PePsPjP±C-PSP°C‡C-C— P· C-PSPiC-P±C-C,PsCḡP°PjPē PḡPḡPḡ-Pḡ, Cṛ C,PsPjCṛ C‡PēCḡP»C- P·
P»C-PSPμP·PsP»C-PrPsPj C,P° PjPμC,PēP»PμPSPsPIPēPj CḡPēPSC-Pj, Cṛ P·PIBḡ™ CḡP·PeCṛ P·
CḡPēP·PēPePsPj CḡPsP·PIPēC,PeCṛ CḡPμCḡPsC,PsPSC-PSPsPIPsPiPs CḡPēPSPPrCḡPsPjCṛ, C°Ps
PIPeP»CḡC‡P°C” PrC-P°CḡPμCḡ, C,P°C...C-PeP°CḡPrC-Cḡ, PīC-C,P»PēPIC-CḡC,Cḡ,
C,CḡPμPjPsCḡ, CḡPīP»CṛC,P°PSC-CḡC,Cḡ CḡPIC-PrPsPjPsCḡC,C- P°P±Ps PePsPjCṛ. PīPeC°Ps
PsPrPSPsC‡P°CḡPSPsPiPs P·P°CḡC,PsCḡCṛPIP°PSPSCḡ C‡PēC... P»C-PeP°CḡCḡCḡPePēC...
P·P°CḡPsP±C-PI P· C„P»CṛPsPeCḡPμC,PēPSPsPj PSPμ PjPsP¶PSP° CṛPSPēPePSCṛC,Pē,
PSPμPsP±C...C-PrPSPs CḡPsP·PīPsC‡PēPSP°C,Pē C—C... PīCḡPēPN₆PsPj P· PSP°PN₆PSPēP¶C‡PsC—
CḡPμPePsPjPμPSPPrPsPIP°PSPsC— PrPsP·Pē C,P° PePsPSC,CḡPsP»CḡPIP°C,Pē
PeP»C-PSC-C‡PSPēPN₆ CḡC,P°PS PīP°C‡C-C”PSC,P°.

PḡPμPePIC-C,P°P·PēPS

P—CḡPsCḡC,P°C” CḡPēP·PēPe PīPsP±C-C‡PSPēC... PμC„PμPeC,C-PI PjPμPePIC-C,P°P·PēPSCṛ

C#PμCḡPμP· PīCḡPēPiPSC-C#PμPSPSCḡ PNεPSPiPs PjPμC,P°P±PsP»C-P·PjCf
C,,P»CfPsPeCfPμC,PēPSPsPj.

PαPμPSC-C,PsC—PS.

PμCḡPē PePsPjP±C-PSPsPIP°PSPsPjCf P·P°CfC,PsCfCfPIP°PSPSC- C,,P»CfPsPeCfPμC,PēPSCf
C,P° C,,PμPSC-C,PsC—PSCf PIC-PrPjC-C#P°CḡC,CHCfCḡ P·PjC-PSPē C—C... CḡC-PIPSCḡ PI
PeCḡPsPIC-. P' PrPμCḡPePēC... PIPēPiP°PrPeP°C... PIPēPSPēPeP°P»Pē PīCḡPsCḡPIPē
C,PsPeCfPēC#PSPsCfC,C-. PŸP»C-Pr C,PēC,CḡCfPIP°C,Pē PrPsP·Pē PīCḡPμPīP°CḡP°C,C-PI C-
PePsPSC,CḡPsP»CḡPIP°C,Pē PeP»C-PSC-C#PSPēPNε CfC,P°PS PīP°C†C-C" PSC,C-PI.

PŸPμCḡPsC,PsPSC-PSPμCḡPiC-C#PSC- P»C-PeP°CḡCḡPeC- P·P°CfPsP±Pē. PμCḡPē
PsPrPSPsC#P°CfPSPsPjCf P·P°CfC,PsCfCfPIP°PSPSC- P· C-PSCεPēPjPē
CfPμCḡPsC,PsPSC-PSPμCḡPiC-C#PSPēPjPē P»C-PeP°CḡCḡPePēPjPē P·P°CfPsP±P°PjPē
(PSP°PīCḡPēPeP»P°Pr, C,CḡP°PjP°PrPsP», C,CḡPēPiC,P°PSPē) PīC-PrPIPēC%oCfC"C,CHCfCḡ
CḡPēP·PēPe PIPēPSPēPePSPμPSPSCḡ CfPμCḡPsC,PsPSC-PSPsPIPSPiPs CfPēPSPrCḡPsPjCf. Pj
CḡP°P·C- P·P°CfC,PsCfCfPIP°PSPSCḡ C,CḡPēPiC,P°PSC-PI C-CfPSCfC"
PīC-PrPIPēC%oPμPSPēPNε PrPsPrP°C,PePsPIPēPNε CḡPēP·PēPe PIPēPSPēPePSPμPSPSCḡ
PIP°P·PsPePsPSCfC,CḡPēPeC†C-C— PePsCḡPsPSP°CḡPSPēC... CfCfPrPēPS C,P°
PiC-PiPμCḡC,PμPSP·C-C—.B

P>C-C,C-PNε C- C,CḡPēPiC,PsC,,P°PS. PŸP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,Pē P·
PsP±PμCḡPμPḡPSC-CfC,Cḡ C,,P»CfPsPeCfPμC,PēPS P·B P»C-C,C-C"Pj C#Pē
C,CḡPēPiC,PsC,,P°PSPsPj, PsCfPeC-P»CHPePē PIC-PrPjC-C#P°P»PēCfCḡ PIPēPiP°PrPePē
CfPμCḡPsC,PsPSC-PSPsPIPSPiPs CfPēPSPrCḡPsPjCf PīCḡPē PsPrPSPsC#P°CfPSPsPjCf
P·P°CfC,PsCfCfPIP°PSPSC- C-PSPiC-P±C-C,PsCḡC-PI P·PIPSCḡPsC,PSPsPiPs
P·P°C...PsPiP»PμPSPSCḡ CfPμCḡPsC,PsPSC-PSCf P· PrP°PSPēPjPē P»C-PeP°CḡCḡPePēPjPē
P·P°CfPsP±P°PjPē. PμCḡPē P·P°CfC,PsCfCfPIP°PSPSC- C,,P»CfPsPeCfPμC,PēPSCf P·
P»C-C,C-C"Pj PSPμPsP±C...C-PrPSPs C#P°CfC,C-CεPμ PePsPSC,CḡPsP»CḡPIP°C,Pē
PeP»C-PSC-C#PSPēPNε CfC,P°PS PīP°C†C-C" PSC,P°.

P†P·PsC,,PμCḡPjPμPSC, CYP2D6. PḡCfPeC-P»CHPePē PjPμC,P°P±PsP»C-P·Pj
C,,P»CfPsPeCfPμC,PēPSCf (CḡPe C- C,CḡPēC†PēPeP»C-C#PSPēC...
P°PSC,PēPrPμPīCḡPμCfP°PSC,C-PI C,P° C-PSCεPēC... CfPμP»PμPeC,PēPIPSPēC...
CfPμCḡPsC,PsPSC-PSPsPIPēC... P°PSC,PēPrPμPīCḡPμCfP°PSC,C-PI)
PIPeP»CḡC#P°C"C,CHCfCḡ PI CfPēCfC,PμPjCf PīPμC†C-PSPePsPIPSPiPs C†PēC,PsC...CḡPsPjCf
C-P·PsC,,PμCḡPjPμPSC,Cf CYP2D6, PsPrPSPsC#P°CfPSPμ P·P°CfC,PsCfCfPIP°PSPSCḡ P·
P»C-PeP°CḡCḡPePēPjPē P·P°CfPsP±P°PjPē, C%oPs C,P°PePsPḡ
PjPμC,P°P±PsP»C-P·CfCḡC,CHCfCḡ C†PēPjPē C,,PμCḡPjPμPSC,P°PjPē, PjPsPḡPμ
PīCḡPēP·PIPμCfC,Pē PrPs CḡPμP°PeC†C-PNε PIP·P°C"PjPsPrC-PNε. PŸPsPjCf
P»C-PeCfPIP°PSPSCḡ PīCḡPμPīP°CḡP°C,P°PjPē, CḡPeC- PjPμC,P°P±PsP»C-P·CfCḡC,CHCfCḡ
PrP°PSPsCḡ CfPēCfC,PμPjPsCḡ C- CḡPeC- PjP°CḡC,CH PICfP·CHPePēPNε
C,PμCḡP°PīPμPIC,PēC#PSPēPNε C-PSPrPμPeCf (C,P°PeC- CḡPe C,,P»PμPeP°C—PSC-Pr,
PμPSPeP°C—PSC-Pr, PeP°CḡP±P°PjP°P·PμPiC-PS C- C,CḡPēC†PēPeP»C-C#PSC-
P°PSC,PēPrPμPīCḡPμCfP°PSC,Pē), CfP»C-Pr PīPsC#PēPSP°C,Pē P· PSP°PNεPjPμPSCεPēC...
PrPsP·, CḡPeC%oPs C...PIPSCḡPēPNε PsPrPSPsC#P°CfPSPs PsC,CḡPēPjCfC"
C,,P»CfPsPeCfPμC,PēPS P°P±Ps PīCḡPēPNεPjP°PI PNεPSPiPs PīCḡPsC,CḡPiPsPj
PīPsPiPμCḡPμPrPSC-C... 5 C,PēPḡPSC-PI. Pj PIPēPiP°PrPeCf PIPeP»CḡC#PμPSPSCḡ
C,,P»CfPsPeCfPμC,PēPSCf PI CḡPμPḡPēPj P»C-PeCfPIP°PSPSCḡ C...PIPSCḡPsPiPs, CḡPePēPNε
CfPḡPμ PīCḡPēPNεPjP°C" PīPsPrC-P±PSPēPNε PīCḡPμPīP°CḡP°C,, CfP»C-Pr
PīPμCḡPμPrP±P°C#PēC,Pē P·PSPēPḡPμPSPSCḡ PrPsP·Pē PīPμCḡCεPsPiPs PīCḡPμPīP°CḡP°C,Cf.

PjP°PjPsPeCÍPëC,,PμPS

PJ PSP°CÍPePsPIC-PNë P»C-C,PμCḡP°C,CÍCḡC- PsPìPëCÍCÍPIP°P»P°CÍCH
C,,P°CḡPjP°PePsPeC-PSPμC,PëC†PSP° PIP°P°C”PjPsPrC-CÍ C-PSPiC-P±C-C,PsCḡC-PI CYP2D6 C-
C,P°PjPsPeCÍPëC,,PμPSCÍ, PIC-PrPjC-C†P°P»PsCÍCH P·PSPëP¶PμPSPSCÍ PSP° 65Bḡ”75 %
PsPrPSC-C”C— B P· P±C-P»CHC€ P°PeC,PëPIPSPëC... C,,PsCḡPj C,P°PjPsPeCÍPëC,,PμPSCÍ,
PSP°PìCḡPëPeP»P°Pr, PμPSPPrPsPeCÍPëC,,PμPSCÍ. P’ PrPμPeC-P»CHPePsC...
PrPsCÍP»C-PrP¶PμPSPSCÍC... PIC-PrPjC-C†P°P»PsCÍCHB P·PSPëP¶PμPSPSCÍ
PμC,,PμPeC,PëPIPSPsCÍC,C- C,P°PjPsPeCÍPëC,,PμPSCÍ PìCḡPë PsPrPSPsC†P°CÍPSPsPjCÍ
P·P°CÍC,PsCÍCÍPIP°PSPSC- PrPμCÍPePëC... C-PSPiC-P±C-C,PsCḡC-PI P·PIPsCḡPsC,PSPsPiPs
P·P°C...PsPìP»PμPSPSCÍ CÍPμCḡPsC,PsPSC-PSCÍ. P—PSPëP¶PμPSPSCÍ
PμC,,PμPeC,PëPIPSPsCÍC,C- C,P°PjPsPeCÍPëC,,PμPSCÍ PSPμ PjPsP¶PSP° PIPëPeP»CHC†PëC,Pë,
C,PsPjCÍ PìPs PjPsP¶P»PëPIPsCÍC,C- CÍP»C-Pr CÍPSPëPeP°C,Pë PsPrPSPsC†P°CÍPSPsPiPs
P·P°CÍC,PsCÍCÍPIP°PSPSCÍ PìPsC,CÍP¶PSPëC... C-PSPiC-P±C-C,PsCḡC-PI CYP2D6,
PIPeP»CHC†P°CHC†Pë C,,P»CÍPsPeCÍPμC,PëPS, (PrPëPI. CḡPsP·PrC-P»
B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCÍPIP°PSPSCÍB»).

PαP»CÍPsPeCÍPμC,PëPS PjPsP¶Pμ PìPsC,PμPSC†C-CHPIP°C,Pë PrC-CH P°P»PìCḡP°P·PsP»P°PjCÍ,
PrC-P°P·PμPìP°PjCÍ, C,P°PePëPj C†PëPSPsPj, C—C... CÍP»C-Pr P·P°CÍC,PsCÍPsPICÍPIP°C,Pë P·
PsP±PμCḡPμP¶PSC-CÍC,CH.

PμCḡPë PsPrPSPsC†P°CÍPSPsPjCÍ P·P°CÍC,PsCÍCÍPIP°PSPSC- P· C,,P»CÍPsPeCÍPμC,PëPSPsPj
PIC-PrP·PSP°C†P°C”C,CHCÍCÍ P·PjC-PSP° PePsPSC†PμPSC,CḡP°C†C-C— CÍ PeCḡPsPIC-
PeP»PsP·P°PìC-PSCÍ, PrC-P°P·PμPìP°PjCÍ, P°P»PìCḡP°P·PsP»P°PjCÍ, C-PjPìCḡP°PjC-PSCÍ C,P°
PrPμP·PëPìCḡP°PjC-PSCÍ, P° PI PrPμCÍPePëC... PIPëPìP°PrPeP°C...
CÍPìPsCÍC,PμCḡC-PìP°CHC,CHCÍCÍ PìCḡPsCÍPIPë C,PsPeCÍPëC†PSPsC— PrC-C—. PμCḡPë
PìCḡPëPNëPsPjC- C,,P»CÍPsPeCÍPμC,PëPSCÍ C-P· PIPeP°P·P°PSPëPjPë PìCḡPμPìP°CḡP°C,P°PjPë
CÍP»C-Pr PìPμCḡPμPìP»CÍPSCÍC,Pë PePsPSCÍPμCḡPIP°C,PëPIPSPëPNë PìC-PrP±C-Cḡ PrPsP·Pë
PìCḡPμPìP°CḡP°C,CÍ C- P·PrC-PNëCÍPSCḡPIP°C,Pë PePsPSC,CḡPsP»CH CÍC,P°PSCÍ
PìP°C†C-C”PSC,P°.

PαP»CÍPsPeCÍPμC,PëPS C%oC-P»CHPSPs P·PIBḡ™ CÍP·CÍC”C,CHCÍCÍ P· P±C-P»PeP°PjPë
PìP»P°P·PjPë PeCḡPsPIC-, C,PsPjCÍ PìCḡPë PìCḡPëP·PSP°C†PμPSPSC- C,,P»CÍPsPeCÍPμC,PëPSCÍ
P· C-PSC€PëPj PìCḡPμPìP°CḡP°C,PsPj, CÍPePëPNë C%oC-P»CHPSPs
P·PIBḡ™ CÍP·CÍC”C,CHCÍCÍ P· P±C-P»PeP°PjPë PìP»P°P·PjPë PeCḡPsPIC-, PjPsP¶P»PëPIC-
P·PjC-PSPë PePsPSC†PμPSC,CḡP°C†C-PNë CÍ PìP»P°P·PjC- PeCḡPsPIC- PsP±PsC...
PìCḡPμPìP°CḡP°C,C-PI.

PμPμCḡPsCḡP°P»CHPSC- P°PSC,PëPePsP°PiC¿P»CÍPSC,Pë. PμCḡPë PsPrPSPsC†P°CÍPSPsPjCÍ
P·P°CÍC,PsCÍCÍPIP°PSPSC- C,,P»CÍPsPeCÍPμC,PëPSCÍ P· PIP°CḡC,,P°CḡPëPSPsPj
PIC-PrPjC-C†P°P»PsCÍCH P·P±C-P»CHC€PμPSPSCÍ C†P°CÍCÍ PeCḡPsPIPsC,PμC†C-
P—PjC-PSP° P°PSC,PëPePsP°PìCÍP»CÍPSC,PSPsC— PrC-C— (P»P°P±PsCḡP°C,PsCḡPSC-
PìPsPeP°P·PSPëPePë C-/P°P±Ps PeP»C-PSC-C†PSC- PsP·PSP°PePë C,P° CÍPëPjPìC,PsPjPë)
PjP°P»Pë PSPμPìPsCÍC,C-PNëPSPëPNë C...P°CḡP°PeC,PμCḡ. PìPe CÍ PIPëPìP°PrPeCÍ
P»C-PeCÍPIP°PSPSCÍ PIP°CḡC,,P°CḡPëPSPsPj CḡP°P·PsPj P· C-PSC€PëPjPë
PìCḡPμPìP°CḡP°C,P°PjPë PrPs PìPsC†P°C,PeCÍ P·P°CÍC,PsCÍCÍPIP°PSPSCÍ P°P±Ps CÍ CḡP°P·C-
PìCḡPëPìPëPSPμPSPSCÍ P»C-PeCÍPIP°PSPSCÍ C,,P»CÍPsPeCÍPμC,PëPSPsPj PìCḡPë
C,PμCḡP°PìC-C— PIP°CḡC,,P°CḡPëPSPsPj CÍP»C-Pr PìCḡPsPIPμCÍC,Pë CḡPμC,PμP»CHPSPëPNë
PePsPSC,CḡPsP»CH PìPsPeP°P·PSPëPeC-PI P·PìPsCḡC,P°PSPSCÍ PeCḡPsPIC-. PμCḡPë
PSPμPsP±C...C-PrPSPsCÍC,C- PìCḡPëP·PSP°C†PμPSPSCÍ C-PSC€PëC... PìCḡPμPìP°CḡP°C,C-PI
PìC-CÍP»CÍ PIC-PrPjC-PSPë C,,P»CÍPsPeCÍPμC,PëPSCÍ CÍP»C-Pr PìCḡP°C...PsPICÍPIP°C,Pë
C,CḡPëPIP°P»PëPNë PìPμCḡC-PsPr PSP°PìC-PIIPëPIPμPrPμPSPSCÍ C,,P»CÍPsPeCÍPμC,PëPSCÍ

C,P° PN₂PsPiPs P°PeC,PëPIPSPsPiPs PjPμC,P°P±PsP»C-C,Cr PSPsC₇C,,P»CrPsPeC₇PμC,PëPSCr C-,
PI P·PIB₇TM C₁P·PeCr P· C†PëPj, PjPsP¶P»PëPIC-C₁C,CH C₇PsP·PIPëC,PeCr
P»C-PeP°C₇C₁CHPePsC— PIP·P°C”PjPsPrC-C— (PrPëPI. C₇PsP·PrC-P»
B«PhC₁PsP±P»PëPIPsC₁C, C- P·P°C₁C,PsC₁CrPIP°PSPSC₁B»).

PμC₇PsC,PëC₁CzPrPsPjPSP° PμP»PμPeC,C₇PsC,PμC₇P°PiC-C₁.

P C-PrPePs PIC-PrPjC-C†P°P»PëC₁CH PIPëPiP°PrPePë P·P±C-P»CHC€PμPSPSC₁
C,C₇PëPIP°P»PsC₁C,C- PSP°PiP°PrC-PI Cr C...PIPsC₇PëC..., C₁PeC- PiC₇PëPN₂PjP°C₇C,CH
C,,P»CrPsPeC₇PμC,PëPS, PiC₇Pë PiC₇PsPIPμPrPμPSPSC- PiC₇PsC,PëC₁CrPrPsPjPSPsC—
PμP»PμPeC,C₇PsC,PμC₇P°PiC-C—. B P₇PsPjCr C°PsPrPs C,P°PePëC... PiP°C†C-C”PSC,C-PI
C₁P»C-Pr PrPsC,C₇PëPjCrPIP°C,PëC₁CH PsP±PμC₇PμP¶PSPsC₁C,C-.

PμPsPrPsPIP¶PμPSPSC₁ C-PSC,PμC₇PIP°P»Cz QT.

PkPμ PiC₇PsPIPsPrPëP»PëC₁CH C,,P°C₇PjP°PePsPeC-PSPμC,PëC†PSC- C-
C,,P°C₇PjP°PePsPrPëPSP°PjC-C†PSC- PrPsC₁P»C-PrP¶PμPSPSC₁ C,,P»CrPsPeC₇PμC,PëPSCr P·
C-PSC€PëPjPë P»C-PeP°C₇C₁CHPePëPjPë P·P°C₁PsP±P°PjPë, C°Ps PiPsPrPsPIP¶C₁CH,C₇
C-PSC,PμC₇PIP°P» QT. PhPrPëPeC,PëPIPSCr PrC-C₇C,,P»CrPsPeC₇PμC,PëPSCr C- PrP°PSPëC...
P»C-PeP°C₇C₁CHPePëC... P·P°C₁PsP±C-PI PSPμ PjPsP¶PSP° PIPëPeP»C₇C†PëC,Pë. P₇P°PePëPj
C†PëPSPsPj, C₁P»C-Pr PrPsC,C₇PëPjCrPIP°C,PëC₁CH PsP±PμC₇PμP¶PSPsC₁C,C- PiC₇Pë
PsPrPSPsC†P°C₁PSPsPjCr P·P°C₁C,PsC₁CrPIP°PSPSC- C,,P»CrPsPeC₇PμC,PëPSCr P·
P»C-PeP°C₇C₁CHPePëPjPë P·P°C₁PsP±P°PjPë, C°Ps PiPsPrPsPIP¶C₁CH,C₇
C-PSC,PμC₇PIP°P» QT, C,P°PePëPjPë C₁Pe P°PSC,PëP°C₇PëC,PjC-C†PSC- P·P°C₁PsP±Pë
PeP»P°C₁Cr P†Ph C- P†P†P†, P°PSC,PëPiC₁PëC...PsC,PëC†PSC- P»C-PeP°C₇C₁CHPeC-
P·P°C₁PsP±Pë (PSP°PiC₇PëPeP»P°Pr, PiPsC...C-PrPSC- C,,PμPSPsC,C-P°P·PëPSCr,
PiC-PjPsP·PëPr, PiP°P»PsPiPμC₇PëPrPsP»), C,C₇PëC†PëPeP»C-C†PSC-
P°PSC,PëPrPμPiC₇PμC₁P°PSC,Pë, PrPμC₁PeC- PiC₇PsC,PëPjC-PeC₇PsP±PSC- P·P°C₁PsP±Pë
(PSP°PiC₇PëPeP»P°Pr, C₁PiP°C₇C,,P»PsPeC₁P°C†PëPS, PjPsPeC₁PëC,,P»PsPeC₁P°C†PëPS,
PμC₇PëC,C₇PsPjC-C†PëPS PrP»C₁ PIPSCrC,C₇C-C€PSC₇PsPIPμPSPSPsPiPs
P·P°C₁C,PsC₁CrPIP°PSPSC₁, PiPμPSC,P°PjC-PrPëPS), PiC₇PsC,PëPjP°P»C₁C₇C-PN₂PSC-
PiC₇PμPiP°C₇P°C,Pë, PsC₁PsP±P»PëPIPs PiP°P»PrPsC,,P°PSC,PëPS, PrPμC₁PeC-
P°PSC,PëPiC-C₁C,P°PjC-PSPSC- (P°C₁C,PμPjC-P·PsP», PjC-P·PsP»P°C₁C,PëPS).

PhP»PePsPiPsP»CH.

PμC-Pr C†P°C₁ PiC₇PsPIPμPrPμPSPSC₁ PrPsC₁P»C-PrP¶PμPSC₇C,,P»CrPsPeC₇PμC,PëPS PSPμ
PiC-PrPIPëC°CrPIP°PI C₇C-PIPμPSC₇ P°P»PePsPiPsP»C₇ PI PeC₇PsPIC- C- PSPμ
PiPsC₁PëP»C₇PIP°PI PrC-C₇ P°P»PePsPiPsP»C₇. PμC₇PsC,Pμ PsPrPSPsC†P°C₁PSPμ
P·P°C₁C,PsC₁CrPIP°PSPSC₁ C-PSPiC-P±C-C,PsC₇C-PI P·PIPsC₇PsC,PSPsPiPs
P·P°C...PsPiP»PμPSPSC₁ C₁PμC₇PsC,PsPSC-PSCr C,P° P°P»PePsPiPsP»C₇ PSPμ
C₇PμPePsPjPμPSPPrCrC”C,CHC₁C₁.

P—PIC-C₇PsP±C-PN₂.

PμC₇Pë PsPrPSPsC†P°C₁PSPsPjCr P·P°C₁C,PsC₁CrPIP°PSPSC- C,,P»CrPsPeC₇PμC,PëPSCr C,P°
P·PIC-C₇PsP±PsC₇ PiC-PrPIPëC°CrC”C,CHC₁C₁ C₇PëP·PëPe PIPëPSPëPePSPμPSPSC₁
C₁PμC₇PsC,PsPSC-PSPμC₇PiC-C†PSPëC... PμC,,PμPeC,C-PI, C,P°PePëC... C₁Pe
C₁PμC₇PsC,PsPSC-PSPsPIPëPN₂ C₁PëPSPPrC₇PsPj, C°Ps PjPsP¶Pμ PIPëPSPëPeP°C,Pë PiC₇Pë
P·P°C₁C,PsC₁CrPIP°PSPSC- C-PSPiC-P±C-C,PsC₇C-PI P·PIPsC₇PsC,PSPsPiPs
P·P°C...PsPiP»PμPSPSC₁ C₁PμC₇PsC,PsPSC-PSCr C,P° C₇PsC₁P»PëPSPSPëC...
PiC₇PμPiP°C₇P°C,C-PI, C°Ps PjC-C₁C,C₁C,CH P·PIC-C₇PsP±C-PN₂.

P₁C₂PeC₇PsP·PSPëP¶C₂PIP°P»CH₃PSC- P₁C₇P_μPiP°C₇P°C,Pë

*P_αP»C₁PsPeC₁P_μC,PëPS P₁PsC₁PëP»C₇C” PrC-C₇ C₁C₁PeC₇PsP·PSPëP¶C₁PIP°P»CH₃PSPëC...
P₁C₇P_μPiP°C₇P°C,C-PI.*

P₁PëP₁C₇PsPiP_μPiC,P°PrPëPS.

*P_μPsPIC-PrPsPjP»C₁P»PsC₁C₁ P₁C₇Ps PsPeC₇P_μPjC- PIPëPiP°PrPePë P·PSPëP¶P_μPSPSC₁
P°PSC,PëPrP_μPiC₇P_μC₁P°PSC,PS₁PsC— P°PeC,PëPIPSPsC₁C,C- C,,P»C₁PsPeC₁P_μC,PëPSC₁ P₁C₇Pë
B P·P°C₁C,PsC₁C₁PIP°PSPSC- C₁ PePsPjP±C-PS₁P°C₁C-C— P· C₁PëP₁C₇PsPiP_μPiC,P°PrPëPSPsPj.*

P_μC₇P_μPiP°C₇P°C,Pë, C%₀Ps PIPëPeP»PëPeP°C₇C,CH₃ PiC-PiPsPSP°C,C₇C-C”PjC-C₇

*P—P°C₁C,PsC₁C₁PIP°PSPSC₁ C,,P»C₁PsPeC₁P_μC,PëPSC₁ C₁ PePsPjP±C-PS₁P°C₁C-C— P·
C-PSCëPëPjPë P₁C₇P_μPiP°C₇P°C,P°PjPë, C%₀Ps PIPëPeP»PëPeP°C₇C,CH₃
PiC-PiPsPSP°C,C₇C-C”PjC-C”C₇ (PSP°P₁C₇PëPeP»P°Pr, PrC-C₁C₇P_μC,PëPePë,
PrP_μC₁PjPsP₁C₇P_μC₁PëPS, PeP°C₇P±P°PjP°P·P_μPiC-PS C,P° PsPeC₁PeP°C₇P±P°P·P_μPiC-PS),
PiC-PrPIPëC%₀C₁C” C₇PëP·PëPe PiC-PiPsPSP°C,C₇C-C”PjC-C—.*

P_μC₇P_μPiP°C₇P°C,Pë, C%₀Ps P·PSPëP¶C₂C₇C,CH₃ C₁C₂PrPsPjPSPëPN₀ P₁PsC₇C-Pi.

*P—P°C₁C,PsC₁C₁PIP°PSPSC₁ C,,P»C₁PsPeC₁P_μC,PëPSC₁ C₁ PePsPjP±C-PS₁P°C₁C-C— P·
C-PSCëPëPjPë P₁C₇P_μPiP°C₇P°C,P°PjPë, C₁PeC- PjPsP¶C₁C,CH₃ P·PSPëP·PëC,Pë
C₁C₁PrPsPjPSPëPN₀ P₁PsC₇C-Pi (PSP°P₁C₇PëPeP»P°Pr, C,C₇PëC₁PëPeP»C-C₁PSC-
P°PSC,PëPrP_μPiC₇P_μC₁P°PSC,Pë, C-PSCëC- C₁P_μP»P_μPeC,PëPIPSC- C-PS₁PiC-P±C-C,PsC₇Pë
P·PIP₁C₇PsC,PS₁PsPiPs P·P°C...PsP₁P»P_μPSPSC₁ C₁P_μC₇PsC,PsPSC-PSC₁,
C,,P_μPSPsC,C-P°P·PëPSPë, P±C₁C,PëC₇PsC,,P_μPSPsPSPë, PjP_μC,,P»PsC...C-PS,
C...P»PsC₇PsC...C-PS, P±C₁P₁C₇PsPiC-PsPS, C,C₇P°PjP°PrPsP»), PiC-PrPIPëC%₀C₁C”
C₇PëP·PëPe PIPëPSPëPePSP_μPSPSC₁ C₁C₁PrPsPj.*

P_hC₁PsP±P»PëPIP₁C₁C,C- P·P°C₁C,PsC₁C₂PIP°PSPSC₁.

*P₁Y₂C—C₁PëPr/ C₁C₂C—C₁PëPrP°P»CH₃PSC- PrC₂PjPePë C₁Pë PeP»C-PSC-C₁PSP_μ
P₁PsPiC-C₇CëP_μPSPSC₁.*

*P”P_μPiC₇P_μC₁C-C₁ P₁PsPiB₇™ C₁P·P°PSP° C-P· P·C₇PsC₁C,P°PSPSC₁Pj C₇PëP·PëPeC₁
C₁C₁C—C₁PëPrP°P»CH₃PSPëC... PrC₁PjPsPe, C₁P₁C₇PsP±Pë C₁C₁C—C₁PëPrC₁. P PëP·PëPe
C-C₁PSC₁C” PrPsC,Pë, P₁PsPePë PSP_μ PSP°C₁C,P°C” P₁P_μPIPSP° C₇P_μPjC-C₁C-C₁.
P_μPsPeC₇P°C%₀P_μPSPSC₁ PjPsP¶P_μ PSP_μ PSP°C₁C,P°PIP°C,Pë P₁C₇PsC,C₁PiPsPj
PeC-P»CH₃PePsC... P°P±Ps P±C-P»CH₃CëP_μ C,PëP¶PSC-PI P»C-PeC₁PIP°PSPSC₁, P·P°
P₁P°C₁C-C”PSC,P°PjPë C₁P»C-Pr C₁PIP°P¶PSPs C₁P₁PsC₁C,P_μC₇C-PiP°C,Pë PrPsC,Pë, PrPsPePë
PSP_μ PSP°C₁C,P°PSP_μ P₁PsPeC₇P°C%₀P_μPSPSC₁. P—P°PiP°P»CH₃PSPëPN₀ PeP»C-PSC-C₁PSPëPN₀
PrPsC₁PIC-Pr P₁PsPeP°P·C₁C”, C%₀Ps C₇PëP·PëPe C₁C₁C—C₁PëPrC₁ PjPsP¶P_μ P·C₇PsC₁C,P°C,Pë
PSP° C₇P°PSPSC-C... C₁C,P°PrC-C₁C... PsPrC₁P¶P°PSPSC₁.*

*P₁PsP±C...C-PrPSPs P₁PsC₁C,C-PN₀PSPs C₁P₁PsC₁C,P_μC₇C-PiP°C,Pë P·P°
P₁P°C₁C-C”PSC,P°PjPë P· PIP_μP»PëPePëPjPë PrP_μPiC₇P_μC₁PëPIPSPëPjPë C₇PsP·P»P°PrP°PjPë
C,P° C-PSCëPëPjPë P₁C₁PëC...C-C₁PSPëPjPë P·P°C...PIP₁C₇CH₃PIP°PSPSC₁PjPë,
PsC₁PeC-P»CH₃PePë PjPsP¶P»PëPIPëPN₀ C₇PsP·PIPëC,PsPe C-PSCëPëC... P₁C₁PëC...C-C₁PSPëC...
C₇PsP·P»P°PrC-PI.*

*P₁Y»C-Pr C₁PIP°P¶PSPs C₁P₁PsC₁C,P_μC₇C-PiP°C,Pë P·P° P₁P°C₁C-C”PSC,P°PjPë,
PSP°C₁P°PjPiP_μC₇P_μPr P· PIPëC₁PsPePëPj C₇PëP·PëPePsPj C₇PsP·PIPëC,PeC₁*

P C-PrPePs PiPsPIC-PrPsPjP»CΠP»PsCÍCΠ PiCḤPs PIPëPiP°PrPePë CḤPsP·PIPëC,PeCí
CÍPuCḤPsC,PsPSC-PSPsPIPsPiPs CÍPëPSPrCḤPsPjCí C‡Pë P·P»PsCΠPeC-CÍPSPsPiPs
PSPμPNeCḤPsP»PuPiC,PëC‡PSPsPiPs CÍPëPSPrCḤPsPjCí Cí PiP°C‡C-C”PSC,C-PI PiCḤPë
PiCḤPëPNePsPjC- C„P»CíPsPeCÍPuC,PëPSCí, PsCÍPsP±P»PëPIPs PI PePsPjP±C-PSP°C‡C-C— P·

C-PSC€PëPjPë CÍPµCĤPsC,PsPSC-PSPµCĤPiC-C†PSPëPjPë (CÍPµCĤPµPr C-PSC€PëC...
L-C,CĤPëPiC,PsC,,P°PS) C-/C†Pë PSPµPNëCĤPsP»PµPiC,PëC†PSPëPjPë P»C-PeP°CĤCÍCHPePëPjPë
P·P°CÍPsP±P°PjPë. P|C- CÍPëPjPiC,PsPjPë PjPsP¶CÍC,CH P±CÍC,Pë PSPµP±PµP·PiPµC†PSPëPjPë
PrP»CĬ P¶PëC,C,CĬ, C,PsPjCÍ P»C-PeCÍPIP°PSPSCĬ C,,P»CÍPsPeCÍPµC,PëPSPsPj CÍP»C-Pr
PiCĤPëPiPëPSPëC,Pë C- P·P°P±PµP·PiPµC†PëC,Pë PiC-PrC,CĤPëPjCÍCHC†CÍ C-
CÍPëPjPiC,PsPjP°C,PëC†PSCÍ C,PµCĤP°PiC-CH CÍ PIPëPiP°PrPeCÍ PSP°CĬPIPSPsCÍC,C-
C,P°PePëC... CÍPëPjPiC,PsPjC-PI: PiC-PiPµCĤC,PµCĤPjC-CĬ, CĤPëPiC-PrPSC-CÍC,CH,
PjC-PsPeP»PsPSCÍCÍ, PSPµCÍC,P°P±C-P»CHPSC-CÍC,CH PIPµPiPµC,P°C,PëPIPSPsC-
PSPµCĤPIPSPIPsC- CÍPëCÍC,PµPjPë P· PjPsP¶P»PëPIPëPjPë PiPsCĤCÍC€PµPSPSCĬPjPë
P¶PëC,C,C°PIPs PIP°P¶P»PëPIPëC... C,,CÍPSPeC†C-PNë, PiCÍPëC...C-C†PSPsPiPs CÍC,P°C,CÍCÍCÍ,
PIPeP»CHC†P°CHC†Pë PiPsCĤCÍC€PµPSPSCĬ CÍPIC-PrPsPjPsCÍC,C-,
PiPsPrCĤP°P·P»PëPIC-CÍC,CH, PiCĤPsPiCĤPµCÍCÍCHC†CÍ P°P¶PëC,P°C†C-CH P°P¶ PrPs
PrPµP»C-CĤC-CH C- PePsPjCÍ.

PĥP°PSC-CĬ.

PĥPSC,PëPrPµPiCĤPµCÍP°PSC,Pë CÍP»C-Pr P· PsP±PµCĤPµP¶PSC-CÍC,CH
P·P°CÍC,PsCÍPsPICÍPIP°C,Pë PiP°C†C-C°PSC,P°Pj P· PjP°PSC-C°CH C†Pë PiC-PiPsPjP°PSC-C°CH.
PŸP»C-Pr PiCĤPëPiPëPSPëC,Pë P·P°CÍC,PsCÍCÍPIP°PSPSCĬ C,,P»CÍPsPeCÍPµC,PëPSCÍ
PiP°C†C-C°PSC,P°Pj P· PjP°PSC-P°PeP°P»CHPSPsCH C,,P°P·PsCH.

PĽCĤPsPIPsC,PµC†C-.

PµPsPIC-PrPsPjP»CĬP»PsCÍCH PiCĤPs PIPëPSPëPePSPµPSPSCĬ PiC-PrC€PeC-CĤPSPëC...
PeCĤPsPIPsPIPëP»PëPIC-PI, C,P°PePëC... CĬPe PµPeC...C-PjPsP·Pë C†Pë PiCÍCĤPiCÍCĤP°.
P·PeC...C-PjPsP·Pë PIPëPSPëPeP°CHC,CH CĤC-PrPePs PiCĤPë P»C-PeCÍPIP°PSPSC-
C,,P»CÍPsPeCÍPµC,PëPSPsPj. P†PSC€C- PiPµPjPsCĤP°PiC-C†PSC- PiCĤPsCĬPIPë
(PiC-PSPµPePsP»PsPiC-C†PSC- PeCĤPsPIPsC,PµC†C-, C€P»CÍPSPePsPIPs-PePëC€PePsPIC-
PeCĤPsPIPsC,PµC†C- C,P° C-PSC€C- C€PeC-CĤPSC- C†Pë CÍP»PëP·PsPIC-
PeCĤPsPIPsPIPëP»PëPIPë) C,P°PePsP¶ CÍPiPsCÍC,PµCĤC-PiP°P»PëCÍCH CĤC-PrPePs. P-
PsP±PµCĤPµP¶PSC-CÍC,CH CÍP»C-Pr P·P°CÍC,PsCÍPsPICÍPIP°C,Pë P»C-PeP°CĤCÍCHPePëPNë
P·P°CÍC-P± PiP°C†C-C°PSC,P°Pj, CĬPeC- PsPrPSPsC†P°CÍPSPs PiCĤPëPNëPjP°CHC,CH
PiPµCĤPsCĤP°P»CHPSC- P°PSC,PëPePsP°PiCÍP»CĬPSC,Pë C,P° PiCĤPµPiP°CĤP°C,Pë, C‰Ps
PIPiP»PëPIP°CHC,CH PSP° C,,CÍPSPeC†C-CH C,CĤPsPjP±PsC†PëC,C-PI (P°C,PëPiPsPIC-
P°PSC,PëPiCÍPëC...PsC,PëC†PSC- P·P°CÍPsP±Pë, C,P°PeC- CĬPe PeP»PsP·P°PiC-PS,
C,,PµPSPsC,C-P°P·PëPS, P±C-P»CHC€C-CÍC,CH C,CĤPëC†PëPeP»C-C†PSPëC...
P°PSC,PëPrPµPiCĤPµCÍP°PSC,C-PI, P°C†PµC,PëP»CÍP°P»C-C†PëP»PsPIP° PePëCÍP»PsC,P°,
PSPµCÍC,PµCĤPsC-PrPSC- PiCĤPsC,PëP·P°PiP°P»CHPSC- P·P°CÍPsP±Pë), P°P±Ps C-PSC€C-
PiCĤPµPiP°CĤP°C,Pë, CĬPeC- P·P±C-P»CHC€CÍCHC,CH CĤPëP·PëPe PeCĤPsPIPsC,PµC†C-,
PiP°C†C-C°PSC,P°Pj C-P· PeCĤPsPIPsC,PµC†PsCH PI P°PSP°PjPSPµP·C-.

PŸCáPrPsPjPë.

PµCĤPë P·P°CÍC,PsCÍCÍPIP°PSPSC- P°PSC,PëPrPµPiCĤPµCÍPëPIPSPëC...
P»C-PeP°CĤCÍCHPePëC... P·P°CÍPsP±C-PI C-CÍPSCÍC° PiPsC,PµPSC†C-PNëPSPëPNë CĤPëP·PëPe
PIPëPSPëPePSPµPSPSCĬ CÍCÍPrPsPj. P-P°CÍC,PsCÍCÍPIP°PSPSCĬ C,,P»CÍPsPeCÍPµC,PëPSCÍ
CÍP»C-Pr PiCĤPëPiPëPSPëC,Pë, CĬPeC‰Ps CÍ PiP°C†C-C°PSC,P° PIPëPSPëPeP»Pë
CÍCÍPrPsPjPë C†Pë C-CÍPSCÍC° PiC-PrPIPëC‰PµPSPëPNë CĤPëP·PëPe PIPëPSPëPePSPµPSPSCĬ
CÍCÍPrPsPj. PŸP»C-Pr CÍPSPëPeP°C,Pë P·P°CÍC,PsCÍCÍPIP°PSPSCĬ C,,P»CÍPsPeCÍPµC,PëPSCÍ
PiP°C†C-C°PSC,P°Pj P· PSPµCÍC,P°P±C-P»CHPSPëPjPë CÍCÍPrPsPjPSPëPjPë
CĤPsP·P»P°PrP°PjPë/ PµPiC-P»PµPiCÍC-C°CH.

PŷP°PjPsPeCÍPëC,,PµPS.

P—P°CÍC,PsCÍCfPIP°PSPSCÍ C,,P»CfPsPeCÍPµC,PëPSCf, PíPsC,CfP¶PSPsPiPs
C-PSPIc-P±C-C,PsCŷP° CYP2D6, PjPsP¶Pµ PíCŷPëP·PIPsPrPëC,Pë PrPs P·PSPëP¶PµPSPSCÍ
PePsPSC†PµPSC,CŷP°C†C-C— PµPSPPrPsPeCÍPëC,,PµPSCf, PsPrPSPsPiPs P·
PSP°PN₂PIP°P¶P»PëPIC-CëPëC... P°PeC,PëPIPSPëC... PjPµC,P°P±PsP»C-C,C-PI
C,P°PjPsPeCÍPëC,,PµPSCf. PŷP°PePëPj C†PëPSPsPj, PíPs PjPsP¶P»PëPIPsCÍC,C- CÍP»C-Pr
CfPSPëPeP°C,Pë PsPrPSPsC†P°CÍPSPsPiPs P·P°CÍC,PsCÍCfPIP°PSPSCÍ
C,P°PjPsPeCÍPëC,,PµPSCf C,P° C,,P»CfPsPeCÍPµC,PëPSCf.

PŷPeP°C,PëP·C-CÍ/ PíCÍPëC...PsPjPsC,PsCŷPSP° PrPëCÍC,,PsCŷC-CÍ.
P—P°CÍC,PsCÍCfPIP°PSPSCÍ C,,P»CfPsPeCÍPµC,PëPSCfB PíPsPIBŷ™ CÍP·P°PSPs P·
CŷPsP·PIPëC,PePsPj P°PeP°C,PëP·C-C—, CÍPeP° CÍCfP±Bŷ™ C”PeC,PëPIPSPsB
C...P°CŷP°PeC,PµCŷPëP·CfC”C,CHCÍCÍ PSPµPsP±C...C-PrPSC-CÍC,Cŷ CŷCfC...P°C,PëCÍCÍ,
C†P°CÍC,Ps P· PSPµPjPsP¶P»PëPIC-CÍC,Cŷ CÍC,PsCÍC,Pë P°P±Ps CÍPëPrC-C,Pë. PíPµ
PsCÍPsP±P»PëPIPs PIC-PrPjC-C†P°C”C,CHCÍCÍ PI PíPµCŷCëC- C,PëP¶PSC-
P»C-PeCfPIP°PSPSCÍ. PµP°C†C-C”PSC,P°Pj, CÍ CÍPePëC... CŷPsP·PIPëPSCfP»PëCÍCH C,P°PeC-
CÍPëPjPíC,PsPjPë, PSPµ CŷPµPePsPjPµPSPPrCfC”C,CHCÍCÍ P·P±C-P»CHCëCfPIP°C,Pë PrPsP·Cf.

PíCíPeCŷPsPIPëPN₂ PrC-P°P±PµC,,.

PJ C...PIPsCŷPëC... PSP° C†CfPeCŷPsPIPëPN₂ PrC-P°P±PµC, PíC-Pr C†P°CÍ P»C-PeCfPIP°PSPSCÍ
C,,P»CfPsPeCÍPµC,PëPSPsPj PIC-PrP·PSP°C†P°P»PëCÍCÍ P·PjC-PSPë CŷC-PIPSCÍ
PíP»CŷPePsP·Pë PI PeCŷPsPIC-. P”C-PíPsPiP»C-PePµPjC-CÍ PIPëPSPëPeP°P»P°
PíCŷPsC,CÍPiPsPj P»C-PeCfPIP°PSPSCÍ C,,P»CfPsPeCÍPµC,PëPSPsPj, P° PíC-CÍP»CÍ
PIC-PrPjC-PSPë PíCŷPµPíP°CŷP°C,Cf Bŷ“ PíC-PíPµCŷPiP»C-PePµPjC-CÍ. PkP° PíPsC†P°C,PeCf
C- PíC-CÍP»CÍ P·P°PeC-PSC†PµPSPSCÍ P»C-PeCfPIP°PSPSCÍ C,,P»CfPsPeCÍPµC,PëPSPsPj
PjPsP¶Pµ PíPsC,CŷPµP±CfPIP°C,PëCÍCÍ PePsCŷPµPeC†C-CÍ PrPsP· C-PSCÍCfP»C-PSCf
C,P°/P°P±Ps PíC-PíPsPiP»C-PePµPjC-C†PSPëC... PíCŷPµPíP°CŷP°C,C-PI PrP»CÍ PíCŷPëPN₂PsPjCf
PICÍPµCŷPµPrPëPSCf.

PµCíPSPeC†C-CÍ PíPµC†C-PSPePë/PSPëCŷPsPe.

PµP»CfPsPeCÍPµC,PëPS P°PeC,PëPIPSPs PjPµC,P°P±PsP»C-P·CfC”C,CHCÍCÍ PI
PíPµC†C-PSC†C- C- PIPëPIPsPrPëC,CHCÍCÍ PSPëCŷPeP°PjPë. PkPëP·CHPeC- PrPsP·Pë CÍPe
P°P»CHC,PµCŷPSP°C,PëPIPS- PrPsP±PsPIC- PrPsP·Pë CŷPµPePsPjPµPSPPrPsPIP°PSPs
PíP°C†C-C”PSC,P°Pj P· PíPsCŷCfCëPµPSPSCÍPj PíPµC†C-PSPePë. PµCŷPë PíCŷPëPN₂PsPjC-
20 PjPi PSP° PrPsP±Cf PíCŷPsC,CÍPiPsPj 2 PjC-CÍCÍC†C-PI CÍ PíP°C†C-C”PSC,C-PI P·
PSPëCŷPePsPIPsCŷ PSPµPrPsCÍC,P°C,PSC-CÍC,Cŷ (PeP»C-CŷPµPSCf PeCŷPµP°C,PëPSC-PSCf
< 10 PjP»/C...PI) C- PíP°C†C-C”PSC,C-PI, CÍPeC- PíPsC,CŷPµP±CfCŷC,CH
PiPµPjPsPrC-P°P»C-P·Cf, CŷC-PIPS- CÍ PíP»P°P·PjC- C,,P»CfPsPeCÍPµC,PëPSCf C†Pë
PSPsCŷC,,P»CfPsPeCÍPµC,PëPSCf C,P°PeC-, CÍPe CÍ PíP°C†C-C”PSC,C-PI P·
PSPsCŷPjP°P»CHPSPsCŷ C,,CfPSPeC†C-C”Cŷ PSPëCŷPsPe.

PµCŷPsC,PëPíPsPeP°P·P°PSPs P·P°CÍC,PsCÍPsPICfPIP°C,Pë PíCŷPë C,CÍP¶PeC-PN₂
PíPµC†C-PSPePsPIC-PN₂ C,P° PSPëCŷPePsPIC-PN₂ PSPµPrPsCÍC,P°C,PSPsCÍC,C-.

PëPeC-CŷPSC- PIPëCÍPëPíPë C,P° P°P»PµCŷPiC-C†PSC- CŷPµP°PeC†C-C—.

PµCŷPë P·P°CÍC,PsCÍCfPIP°PSPSC- C,,P»CfPsPeCÍPµC,PëPSCf PíPsPIC-PrPsPjP»CÍP»PsCÍCH
PíCŷPs PIPëPíP°PrPePë CëPeC-CŷPSPëC... PIPëCÍPëPíC-PI, P°PSP°C,,C-P»P°PeC,PëC†PSPëC...
CŷPµP°PeC†C-PN₂ C- PíCŷPsPiCŷPµCÍCfCŷC†PëC... CÍPëCÍC,PµPjPSPëC... PíPsCŷCfCëPµPSCŷ

C-P·P·P°P»CfC±PμPSPSCΠPj PI PīP°C,PsP»PsPiC-C±PSPēPNē PīCḡPsC±PμCf CēPeC-CḡPē,
P»PμPiPμPSC-PI, PiPμC±C-PSPēPē. PμCḡPē PiPsCΠPIC- CēPeC-CḡPSPēC... PIPēCfPēPiC-PI
P°P±Ps C-PSCēPēC... P°P»PμCḡPiC-C±PSPēC... CḡPμP°PeC±C-PNē, PμC,C-PsP»PsPiC-Cḡ
CΠPePēC... PSPμ PjPsP¶PSP° PIPēP·PSP°C±PēC,Pē, PīCḡPēPNēPsPj C,,P»CfPsPeCfPμC,PēPSCf
CfP»C-Pr PIC-PrPjC-PSPēC,Pē.

P'C,CḡP°C,P° PjP°CfPē C,C-P»P°.

PJ PīP°C±C-C°PSC,C-PI, CΠPeC- PīCḡPēPNēPjP°CḡC,CH C,,P»CfPsPeCfPμC,PēPS, PjPsP¶Pμ
PIC-PrPjC-C±P°C,PēCfCΠ P·PSPēP¶PμPSPSCΠ PjP°CfPē C,C-P»P°.B

PŸPēPjPiC,PsPjPē PIC-PrPjC-PSPē.

PŞP°CfC,Ps PIPēPSPēPeP°CḡC,CH CfPēPjPiC,PsPjPē PIC-PrPjC-PSPē, CΠPeC%Ps
P»C-PeCfPIP°PSPSCΠ CḡP°PiC,PsPIPs PīCḡPēPīPēPSCΠC°C,CHCfCΠ (PrPēPI. CḡPsP·PrC-P»
B«PμPsP±C-C±PSC- CḡPμP°PeC±C-C-B». PμC-Pr C±P°Cf PeP»C-PSC-C±PSPēC...
PrPsCfP»C-PrP¶PμPSCḡ PiPsP±C-C±PSC- CḡPμP°PeC±C-C— PīCḡPē PīCḡPēPīPēPSPμPSPSC-
PīCḡPēPNēPsPjCf PīCḡPμPiP°CḡP°C,Cf PIPēPSPēPeP°P»Pē PīCḡPēP±P»PēP·PSPs Cf 60 %
PīP°C±C-C°PSC,C-PI, PīCḡPēC±PsPjCf CΠPe Cf PīP°C±C-C°PSC,C-PI, CΠPeC- PīCḡPēPNēPjP°P»Pē
C,,P»CfPsPeCfPμC,PēPS, C,P°Pe C- PI PīP°C±C-C°PSC,C-PI, CΠPeC- PīCḡPēPNēPjP°P»Pē
PīP»P°C±PμP±Ps. P PēP·PēPe CḡPsP·PIPēC,PeCf CfPēPjPiC,PsPjC-PI PIC-PrPjC-PSPē
P·P°P»PμP¶PIPēC,CH PIC-Pr P±P°PīP°C,CHPsC... C,,P°PeC,PsCḡC-PI, PIPeP»CḡC±P°CḡC±Pē
C,CḡPēPIP°P»C-CfC,CH P»C-PeCfPIP°PSPSCΠ, PrPsP·Cf C,P° CḡC-PIPμPSCḡ
P·PSPēP¶PμPSPSCΠ PrPsP·Pē. PŸP»C-Pr PīCḡPsPIPsPrPēC,Pē C,PēC,CḡCfPIP°PSPSCΠ
P·PjPμPSCēPμPSPSCΠ PrPsP·Pē PīCḡPsC,CΠPiPsPj 1 C±Pē 2 C,PēP¶PSC-PI PIC-PrPiPsPIC-PrPSPs
PrPs PiPsC,CḡPμP±Pē PīP°C±C-C°PSC,P°.

PŸPēPjPiC,PsPjPē PIC-PrPjC-PSPē: P·P°PīP°PjPsCḡPsC±PμPSPSCΠ, CḡPsP·P»P°PrPē
C±CfC,P»PēPIPsCfC,C- (PIPeP»CḡC±P°CḡC±Pē PīP°CḡPμCfC,PμP·C-C—), CḡPsP·P»P°PrPē
CfPSCf (PIPeP»CḡC±P°CḡC±Pē P±PμP·CfPsPSPSCΠ C- C,CΠP¶PeC- CfPSPsPIPēPrC-PSPSCΠ),
P°CfC,PμPSC-CΠ, P°P¶PēC,P°C±C-CΠ C±Pē P·P±CfPrP¶PμPSPSCΠ, PSCfPrPsC,P° C,P°/P°P±Ps
P±P»CḡPIP°PSPSCΠ, C,CḡPμPjPsCḡ C- PiPsP»PsPIPsPēPNē P±C-P»CH. P—P°PiP°P»PsPj
CfPēPjPiC,PsPjPē PIC-PrPjC-PSPē PiPsPjC-CḡPSPsPiPs C±Pē CfPμCḡPμPrPSCḡPsPiPs
CfC,CfPiPμPSCΠ C,CΠP¶PePsCfC,C-, P°P»Pμ PjPsP¶CfC,CH P±CfC,Pē C- C,CΠP¶PePsPiPs
CfC,CfPiPμPSCΠ. P—PIPēC±P°PNēPSPs PIPēPSPēPeP°CḡC,CH PīCḡPsC,CΠPiPsPj PiPμCḡCēPēC...
PrPSC-PI PīC-CfP»CΠ PīCḡPēPīPēPSPμPSPSCΠ P·P°CfC,PsCfCfPIP°PSPSCΠ
C,,P»CfPsPeCfPμC,PēPSCf. P—P°P·PIPēC±P°PNē CfPēPjPiC,PsPjPē CfP°PjPsCfC,C-PNēPSPs
PjPēPSP°CḡC,CH PīCḡPsC,CΠPiPsPj PiPμCḡCēPēC... 2 C,PēP¶PSC-PI, C...PsC±P° PI
PrPμCΠPePēC... PIPēPīP°PrPeP°C... PjPsP¶CfC,CH C,CḡPēPIP°C,Pē B 2Bḡ“3 PjC-CfCΠC±C- C-
PrPsPICēPμ. PŸP°PePēPj C±PēPSPsPj, CḡPμPePsPjPμPSPPrPsPIP°PSPs PiPsCfC,CfPiPsPIPs
P·PSPēP¶CfPIP°C,Pē PrPsP·Cf C,,P»CfPsPeCfPμC,PēPSCf PīCḡPsC,CΠPiPsPj
C%PsPSP°PNēPjPμPSCēPμ 1Bḡ“2 C,PēP¶PSC-PI PIC-PrPiPsPIC-PrPSPs PrPs PiPsC,CḡPμP±
PīP°C±C-C°PSC,P°.

PḡC-PrCḡC-P°P°.

P±CfPSCfCḡC,CH PiPsPIC-PrPsPjP»PμPSPSCΠ PīCḡPs PIPēPSPēPePSPμPSPSCΠ
PjC-PrCḡC-P°P·Cf PI PīP°C±C-C°PSC,C-PI, C%Ps PīCḡPēPNēPjP°P»Pē C,,P»CfPsPeCfPμC,PēPS.
PŸPsPjCfB CfP»C-Pr PrPsC,CḡPēPjCfPIP°C,PēCfCH PsP±PμCḡPμP¶PSPsCfC,C- C%PsPrPs
PīP°C±C-C°PSC,C-PI P· PīC-PrPIPēC%PμPSPēPj PIPSCfC,CḡC-CēPSCḡPsPsC±PSPēPj
C,PēCfPePsPj C±Pē CḡPēP·PēPePsPj PIPēPSPēPePSPμPSPSCΠ PiPsCfC,CḡPsC—
P·P°PeCḡPēC,PsPeCfC,PsPIPsC— PiP»P°CfPePsPjPē. PμCḡPsC,PēPiPsPeP°P·P°PSPs

$P \cdot P^{\circ} C \dot{I} C, P s C \dot{I} C r P I P^{\circ} C, P \ddot{e} C r P \ddot{I} P^{\circ} C \dot{I} C - C'' P S C, P^{\circ} P_j C - P \cdot P i P \gg P^{\circ} C r P e P s P_j P s C \dot{H}.$

$P_{\mu} C \dot{H} P s C, P \ddot{e} C \dot{I} C \acute{z} P r P s P_j P S P^{\circ} P_{\mu} P \gg P_{\mu} P e C, C \dot{H} P s C, P_{\mu} C \dot{H} P^{\circ} P \ddot{I} C - C \dot{I} I.$

$P C - P r P e P s P I C - P r P_j C - C \ddagger P^{\circ} P \gg P \ddot{e} C \dot{I} C \dot{H} P I P \ddot{e} P \ddot{I} P^{\circ} P r P e P \ddot{e} P \cdot P \pm C - P \gg C \dot{H} C \epsilon P_{\mu} P S P S C \dot{I} I$
 $C, C \dot{H} P \ddot{e} P I P^{\circ} P \gg P s C \dot{I} C, C - P S P^{\circ} P \ddot{I} P^{\circ} P r C - P I C r C \dots P I P s C \dot{H} P \ddot{e} C \dots, C \dot{I} P e C - P \ddot{I} C \dot{H} P \ddot{e} P N_{\circ} P_j P^{\circ} C \dot{H} C, C \dot{H}$
 $C,, P \gg C r P s P e C \dot{I} P_{\mu} C, P \ddot{e} P s, P \ddot{I} C \dot{H} P \ddot{e} P \ddot{I} C \dot{H} P s P I P_{\mu} P r P_{\mu} P S P S C - P \ddot{I} C \dot{H} P s C, P \ddot{e} C \dot{I} C r P r P s P_j P S P s C -$
 $P_{\mu} P \gg P_{\mu} P e C, C \dot{H} P s C, P_{\mu} C \dot{H} P^{\circ} P \ddot{I} C - C \text{---}. P \ddot{y} P s P_j C r C \% P s P r P s C, P^{\circ} P e P \ddot{e} C \dots P \ddot{I} P^{\circ} C \dot{I} C - C'' P S C, C - P I$
 $C \dot{I} P \gg C - P r P r P s C, C \dot{H} P \ddot{e} P_j C r P I P^{\circ} C, P \ddot{e} C \dot{I} C \dot{H} P s P \pm P_{\mu} C \dot{H} P_{\mu} P \P P S P s C \dot{I} C, C -.$

$P'' C - P \ddot{I} P s P S P^{\circ} C, C \dot{H} C - C'' P_j C - C \dot{I} I.$

$P_{\mu} C \dot{H} P \ddot{e} P \cdot P^{\circ} C \dot{I} C, P s C \dot{I} C r P I P^{\circ} P S P S C - C,, P \gg C r P s P e C \dot{I} P_{\mu} C, P \ddot{e} P S C r P_j P s P \P P \gg P \ddot{e} P I P \ddot{e} P N_{\circ}$
 $C \dot{H} P s P \cdot P I P \ddot{e} C, P s P e P \ddot{I} C - P \ddot{I} P s P S P^{\circ} C, C \dot{H} C - C'' P_j C - C \text{---}. P' P s C \dot{I} P S P s P I P S P s P_j C r C \ddagger P_{\mu}$
 $C \dots P^{\circ} C \dot{H} P^{\circ} P e C, P_{\mu} C \dot{H} P S P s P r P \gg C \dot{I} I P \ddot{I} P^{\circ} C \dot{I} C - C'' P S C, C - P I P \gg C - C, P S C \dot{H} P s P i P s P I C - P e C r C, P^{\circ}$
 $C \dots P I P s C \dot{H} P \ddot{e} C \dots, C \dot{I} P e C - P s P r P_{\mu} C \dot{H} P \P C r C \dot{H} C, C \dot{H} P r C - C r C \dot{H} P_{\mu} C, P \ddot{e} P e P \ddot{e}, P I P S P^{\circ} C \dot{I} P \gg C - P r P s P e$
 $P \cdot P_j P_{\mu} P S C \epsilon P_{\mu} P S P S C \dot{I} I P s P \pm ' C'' P_j C r C \ddagger P \ddot{e} C \dot{H} P e C r P \gg C \dot{H} C \dot{H} C \ddagger P s C \text{---} P e C \dot{H} P s P I C - (P h P | P \dot{H}).$

$P \text{---} P I C - C \dot{H} P s P \pm C - P N_{\circ}.$

$P_{\mu} C \dot{H} P \ddot{e} P s P r P S P s C \ddagger P^{\circ} C \dot{I} P S P s P_j C r P \cdot P^{\circ} C \dot{I} C, P s C \dot{I} C r P I P^{\circ} P S P S C - C,, P \gg C r P s P e C \dot{I} P_{\mu} C, P \ddot{e} P S C r C, P^{\circ}$
 $P \cdot P I C - C \dot{H} P s P \pm P s C \dot{H} P \ddot{I} C - P r P I P \ddot{e} C \% C r C'' C, C \dot{H} C \dot{I} C \dot{I} C \dot{H} P \ddot{e} P \cdot P \ddot{e} P e P I P \ddot{e} P S P \ddot{e} P e P S P_{\mu} P S P S C \dot{I} I$
 $C \dot{I} P_{\mu} C \dot{H} P s C, P s P S C - P S P_{\mu} C \dot{H} P \ddot{I} C - C \ddagger P S P \ddot{e} C \dots P_{\mu} C,, P_{\mu} P e C, C - P I, C, P^{\circ} P e P \ddot{e} C \dots C \dot{I} P e$
 $C \dot{I} P_{\mu} C \dot{H} P s C, P s P S C - P S P s P I P \ddot{e} P N_{\circ} C \dot{I} P \ddot{e} P S P r C \dot{H} P s P_j, C \% P s P_j P s P \P P_{\mu} P I P \ddot{e} P S P \ddot{e} P e P^{\circ} C, P \ddot{e} P \ddot{I} C \dot{H} P \ddot{e}$
 $P \cdot P^{\circ} C \dot{I} C, P s C \dot{I} C r P I P^{\circ} P S P S C - C - P S P \ddot{I} C - P \pm C - C, P s C \dot{H} C - P I P \cdot P I P s C \dot{H} P s C, P S P s P i P s$
 $P \cdot P^{\circ} C \dots P s P \ddot{I} P \gg P_{\mu} P S P S C \dot{I} I C \dot{I} P_{\mu} C \dot{H} P s C, P s P S C - P S C r C, P^{\circ} C \dot{H} P s C \dot{I} P \gg P \ddot{e} P S P S P \ddot{e} C \dots$
 $P \ddot{I} C \dot{H} P_{\mu} P \ddot{I} P^{\circ} C \dot{H} P^{\circ} C, C - P I, C \% P s P_j C - C \dot{I} C, C \dot{I} C, C \dot{H} P \cdot P I C - C \dot{H} P s P \pm C - P N_{\circ}.$

$P \gg P^{\circ} P e C, P s P \cdot P^{\circ}.$

$P_{\mu} C \dot{H} P_{\mu} P \ddot{I} P^{\circ} C \dot{H} P^{\circ} C, P_j C - C \dot{I} C, P \ddot{e} C, C \dot{H} P \gg P^{\circ} P e C, P s P \cdot C r, C, P s P_j C r P N_{\circ} P s P i P s P S P_{\mu} C \dot{I} P \gg C - P r$
 $P \cdot P^{\circ} C \dot{I} C, P s C \dot{I} C r P I C r P I P^{\circ} C, P \ddot{e} P \ddot{I} P^{\circ} C \dot{I} C - C'' P S C, P^{\circ} P_j C - P \cdot C, P^{\circ} P e P \ddot{e} P_j P \ddot{e} C \dot{H} C - P r P e C - C \dot{I} P S P \ddot{e} P_j P \ddot{e}$
 $C \dot{I} P \ddot{I} P^{\circ} P r P e P s P I P \ddot{e} P_j P \ddot{e} P \ddot{I} P s C \dot{H} C r C \epsilon P_{\mu} P S P S C \dot{I} P_j P \ddot{e}, C \dot{I} P e P S P_{\mu} P \ddot{I} P_{\mu} C \dot{H} P_{\mu} P S P s C \dot{I} P \ddot{e} P_j C - C \dot{I} C, C \dot{H}$
 $P \ddot{I} P^{\circ} P \gg P^{\circ} P e C, P s P \cdot P \ddot{e}, P I C \dot{H} P s P r P \P P_{\mu} P S P^{\circ} P S P_{\mu} P r P s C \dot{I} C, P^{\circ} C, P S C - C \dot{I} C, C \dot{H} P \gg P^{\circ} P e C, P^{\circ} P \cdot P \ddot{e} P^{\circ} P \pm P s$
 $C \dot{I} P \ddot{e} P S P r C \dot{H} P s P_j P i P \gg C \dot{H} P e P s P \cdot P s - P \ddot{I} P^{\circ} P \gg P^{\circ} P e C, P s P \cdot P S P s C \text{---} P_j P^{\circ} P \gg C \dot{H} P^{\circ} P \pm C \dot{I} P s C \dot{H} P \pm C \dot{I} C - C \text{---}.$

$P \text{---} P^{\circ} C \dot{I} C, P s C \dot{I} C \acute{z} P I P^{\circ} P S P S C \dot{I} I C \acute{z} P \ddot{I} P_{\mu} C \dot{H} C - P s P r P I P^{\circ} P \ddot{I} C - C, P S P s C \dot{I} C, C - P^{\circ} P \pm P s$
 $P i P s P r C \acute{z} P I P^{\circ} P S P S C \dot{I} I P \ddot{I} C \dot{H} C \acute{z} P r P r C \dot{H}.$

$P' P^{\circ} P \ddot{I} C - C, P S C - C \dot{I} C, C \dot{H}$

$P' P s P e C \dot{H} P_{\mu} P_j P \ddot{e} C \dots P_{\mu} P \ddot{I} C - P r P_{\mu} P_j C - P s P \gg P s P \ddot{I} C - C \ddagger P S P \ddot{e} C \dots P r P s C \dot{I} P \gg C - P r P \P P_{\mu} P S P S C \dot{I} I C \dots$
 $P \ddot{I} P s P I C - P r P s P_j P \gg C \dot{I} P \gg P s C \dot{I} C \dot{I} I P \ddot{I} C \dot{H} P s P \ddot{I} C - P r P I P \ddot{e} C \% P_{\mu} P S P \ddot{e} P N_{\circ} C \dot{H} P \ddot{e} P \cdot P \ddot{e} P e C \dot{I} P_{\mu} C \dot{H} C \ddagger P_{\mu} P I P s -$
 $C \dot{I} C r P r P \ddot{e} P S P S P \ddot{e} C \dots P r P_{\mu} C,, P_{\mu} P e C, C - P I, P \ddot{I} P s P I \dot{H} \dot{H}^{\text{TM}} C \dot{I} P \cdot P^{\circ} P S P \ddot{e} C \dots C - P \cdot$
 $P \cdot P^{\circ} C \dot{I} C, P s C \dot{I} C r P I P^{\circ} P S P S C \dot{I} I P_j C,, P \gg C r P s P e C \dot{I} P_{\mu} C, P \ddot{e} P S C r P I P \ddot{I} P_{\mu} C \dot{H} C \epsilon P s P_j C r$
 $C, C \dot{H} P \ddot{e} P_j P_{\mu} C \dot{I} C, C \dot{H} C - P I P^{\circ} P \ddot{I} C - C, P S P s C \dot{I} C, C \text{---}. P \dot{H} P_{\mu} C \dots P^{\circ} P S C - P \cdot P_j C \ddagger C \dot{H} P s P i P s C \dot{I} P I P \ddot{e} C \% P^{\circ}$
 $P S P_{\mu} P I C - P r P s P_j P \ddot{e} P N_{\circ}. P' C \ddagger C - P \gg P s P_j C r P r P^{\circ} P S C - C \dot{I} P I C - P r C \ddagger P^{\circ} C, C \dot{H} P \ddot{I} C \dot{H} P s C, P_{\mu}, C \% P s$
 $C \dot{H} P \ddot{e} P \cdot P \ddot{e} P e P I P \ddot{e} P S P \ddot{e} P e P S P_{\mu} P S P S C \dot{I} I P r P_{\mu} C,, P_{\mu} P e C, C - P I C \dot{I} P_{\mu} C \dot{H} C \ddagger P_{\mu} P I P s - C \dot{I} C r P r P \ddot{e} P S P S P s C \text{---}$
 $C \dot{I} P \ddot{e} C \dot{I} C, P_{\mu} P_j P \ddot{e} C r P S P_{\mu} P_j P s P I P \gg C \dot{I} I C,, C \ddagger P \ddot{e} C \text{---} P_j P^{\circ} C, P_{\mu} C \dot{H} C - B P \cdot P^{\circ} C \dot{I} C, P s C \dot{I} C r P s P I C r P I P^{\circ} P \gg P \ddot{e} B$
 $C,, P \gg C r P s P e C \dot{I} P_{\mu} C, P \ddot{e} P s P \ddot{I} C - P r C \ddagger P^{\circ} C \dot{I} P I P^{\circ} P \ddot{I} C - C, P S P s C \dot{I} C, C \text{---}, C \dot{I} C, P^{\circ} P S P s P I P \ddot{e} C, C \dot{H} 2/100 C r$
 $P \ddot{I} P s C \dot{H} C - P I P S C \dot{I} I P S P S C - P \cdot P s C \ddagger C - P e C r P I P^{\circ} P S P s C \dot{H} C \ddagger P^{\circ} C \dot{I} C, P s C, P s C \dot{H} C, P^{\circ} P e P \ddot{e} C \dots$

PrPμC,,PμPeC,C-PI 1/100 Cr P·P°PiP°P»CHΨPSC-PN₂ PīPsPīCfP»CΨC†C-C—.

P·PīC-PrPμPjC-PsP»PsPīC-C‡PSC- PrP°PSC- CÍPIC-PrC‡P°C,CH, C%Ps
P·P°CÍC,PsCÍCfPīP°PSPSCΨ C-PSPīC-P±C-C,PsCΨC-PI P·PIPSCΨPsC,PSPsPīPs
P·P°C...PsPīP»PμPSPSCΨ CÍPμCΨPsC,PsPSC-PSCf PīC-Pr C‡P°CÍ PIP°PīC-C,PSPsCÍC,C-,
PsCÍCfP±P»PēPIPs PSP° PīC-P·PSC-C... CÍC,CΨPsPeP°C... PIP°PīC-C,PSPsCÍC,C-,
P·P±C-P»CHC€CfC” CΨPēP·PēPe PīPμCΨCÍPēCÍC,CfPīP°P»CHΨPSPsC— P»PμPīPμPSPμPIPSC—
PīC-PīPμCΨC,PμPSP·C-C— Cr PSPsPIPSPSP°CΨPsPrP¶PμPSPēC.... P—P°P·PSP°C‡PμPSPēPN₂
CΨPēP·PēPe CÍC,P°PSPsPīPēPī PīCΨPēP±P»PēP·PSPs 5 PIPēPīP°PrPeC-PI PSP° 1000
PIP°PīC-C,PSPsCÍC,PμPN₂, C,PsPrC- CΨPe Cr P·P°PiP°P»CHΨPSC-PN₂ PīPsPīCfP»CΨC†C-C—
PN₂PsPīPs C‡P°CÍC,PsC,P° CÍC,P°PSPsPīPēC,CH PIC-Pr 1 PrPs 2 PIPēPīP°PrPeC-PI PSP° 1000
PIP°PīC-C,PSPsCÍC,PμPN₂.

PαP»CfPsPeCÍPμC,PēPS PīCΨPsC,PēPīPsPeP°P·P°PSPs P·P°CÍC,PsCÍCfPīP°PīC,Pē PīC-Pr
C‡P°CÍ PIP°PīC-C,PSPsCÍC,C-.

P”PsPrCfPIP°PSPSCΨ PīCΨCfPrPrCΨ.

PαP»CfPsPeCÍPμC,PēPS PīCΨPsC,PēPīPsPeP°P·P°PSPēPN₂ PīC-Pr C‡P°CÍ PīPsPrCfPIP°PSPSCΨ
PīCΨCfPrPrCΨ.

PαP»CfPsPeCÍPμC,PēPS C,P° PN₂PsPīPs PjPμC,P°P±PsP»C-C, PSPsCΨC,,P»CfPsPeCÍPμC,PēPS
PμPeCÍPeCΨPμC,CfCΨC,CHCÍCΨ Cr PīCΨCfPrPSPμ PjPsP»PsPePs C-
PīPsPIC-PrPsPjP»CΨP»PsCÍCΨ PīCΨPs PSPμP±P°P¶P°PSC- CΨPμP°PeC†C-C— Cr
PSPμPjPsPIP»CΨC, PSP° PīCΨCfPrPSPsPjCf PIPēPīPsPrPsPICfPIP°PSPSC-. PīPeC%Ps
P»C-PeCfPIP°PSPSCΨ C,,P»CfPsPeCÍPμC,PēPSPsPj PIPIP°P¶P°C”C,CHCÍCΨ
PSPμPsP±C...C-PrPSPēPj, CÍP»C-Pr PīCΨPēPīPēPSPēC,Pē PīPsPrCfPIP°PSPSCΨ PīCΨCfPrPrCΨ.

PαPμCΨC,PēP»CHΨPSC-CÍC,CH

P”PsCÍP»C-PrP¶PμPSPSCΨ PSP° C,PIP°CΨPēPSP°C... PīCΨPsPrPμPjPsPSCÍC,CΨCfPIP°P»Pē,
C%Ps C,,P»CfPsPeCÍPμC,PēPS PjPsP¶Pμ PIPīP»PēPIP°C,Pē PSP° CΨPeC-CÍC,CH CÍPīPμCΨPjPē.

PμPsPIC-PrPsPjP»CΨP»PsCÍCΨ, C%Ps PīCΨPē P·P°CÍC,PsCÍCfPīP°PSPSC- PrPμCΨPePēC...
C-PSPīC-P±C-C,PsCΨC-PI P·PIPSCΨPsC,PSPsPīPs P·P°C...PsPīP»PμPSPSCΨ
CÍPμCΨPsC,PsPSC-PSCf PIPīP»PēPI PSP° CΨPeC-CÍC,CH CÍPīPμCΨPjPē C”
PsP±PsCΨPsC,PSPēPj. P”P°PSC- C%PsPrPs PIPīP»PēPICf PSP° C,,PμCΨC,PēP»CHΨPSC-CÍC,CH
P»CΨPrPēPSPē PIC-PrCÍCfC,PSC-.

*P—PrP°C,PSC-CÍC,CH PIPīP»PēPIP°C,Pē PSP° C€PIPēPrPeC-CÍC,CH CΨPμP°PeC†C-C— PīCΨPē
PePμCΨC¿PIP°PSPSC- P°PIC,PsC,CΨP°PSCÍPīPsCΨC,PsPj P°P±Ps C-PSC€PēPjPē
PjPμC...P°PSC-P·PjP°PjPē.*

PμC-Pr C‡P°CÍ P»C-PeCfPIP°PSPSCΨ PμCΨPsPrPμPīPsPj CÍP»C-Pr CÍC,CΨPēPjCfPIP°C,PēCÍCΨ
PIC-Pr PePμCΨCfPIP°PSPSCΨ P°PIC,PsC,CΨP°PSCÍPīPsCΨC,PsPj P°P±Ps CΨPsP±PsC,Pē P·
C-PSC€PēPjPē PjPμC...P°PSC-P·PjP°PjPē.

PŸPīPsCÍC-P± P·P°CÍC,PsCÍC¿PIP°PSPSCΨ C,P° PrPsP·Pē.

Р'РµР»РёРёС- РrРµРiСђРµСђРёРiРSС- РµРiС-Р.РsРrРё/СђРsР.Р»Р°РrРё.

РµРsСђРёРSP°С,Рё С,РµСђР°РiС-Сђ РµСђРsРrРµРiРsРj РSPµРsР±С...С-РrРSPs Р· 20 РjРi РSP° РrРsР±Ср Р·Р° РsРrРёРS СђР°РSPeРsРiРёР№ РiСђРёР№РsРj вђ” С,Р°РёР° РrРsР·Р° РrРsСђС,Р°С,РSСђ РrР»Сђ РrРsСђСђРiРSPµРSPSСђ Р°РSС,РёРrРµРiСђРµСђРёРiРSPsРiРs РµС,,РµРёС,Ср. Рj СђР°Р·- РёР»С-РSС-СђРSPsС— РSPµРsР±С...С-РrРSPsСђС,С- СђРµСђРµР· 3вђ”4 С,РёР¶РSС- РiС-Рr РiРsСђР°С,РёСр С,РµСђР°РiС-С— РrРsР·Ср РjРsР¶РSP° Р·Р±С-Р»СђСёРёС,Рё РrРs 20 РjРi РrРiС-СђС- РSP° РrРsР±Ср; С...РsСђР° Р·Р±С-Р»СђСёРµРµРSPSСђ РrРsР·Рё РiСђРёР·РiРsРrРёС,Сђ РrРs РiРsС,РµРSСђС-Р№РSPsРiРs Р·СђРsСђС,Р°РSPSСђ РiРsР±С-СђРSPёС... РµС,,РµРёС,С-Рi, РrРµСђРёРё РiР°СђС-С”РSС,Р°Рj С-Р· РSPµРrРsСђС,Р°С,РSСђРsСђ РiС-РrРiРsРiС-РrРrСђ РSP° Р»С-РёСрРiР°РSPSСђ РrРsР·РsСђ 20 РjРi, РrРsР·Ср РjРsР¶РSP° РiРsСђС,СрРiРsРiРs Р·Р±С-Р»СђСёРёС,Рё РrРs 60 РjРi РSP° РrРsР±Ср. Р”РsР·Ср Р·Р±С-Р»СђСёСрСђС,Сђ С-РSPrРёРiС-РrСрР°Р»СђРSPs С,Р° Р· РsР±РµСђРµР¶РSС-СђС,Сђ, С,РµСђР°РiС-Сђ СђР»С-Рr СђРsР·РiРsСђРёРSP°С,Рё Р· РjС-РSС-РjР°Р»СђРSPsС— РµС,,РµРёС,РёРiРSPsС— РrРsР·Рё.

РµР°СђС-С”РSС,С-Рi Р· РrРµРiСђРµСђРёРiРSPёРjРё СђРsР·Р»°РrР°РjРё СђР»С-Рr Р»С-РёСрРiР°С,Рё РiСђРsС,СђРiРsРj РrРsСђС,Р°С,РSСђРsРiРs СђР°СђСр, С°°РsРSP°Р№РjРµРSСёРµ РiСђРsС,СђРiРsРj 6 РjС-СђСђСђС-Рi, С°°РsР± РiРµСђРµСђРiС-РrСђРёС,РёСђСђ Ср РiС-РrСђСрС,РSPsСђС,С- СђРёРjРiС,РsРjС-Рi Р·Р°С...РiРsСђСђРiР°РSPSСђ.

РкР°Рiёђ™ СђР·Р»Р»РёРs-РjР°РSС-Р°РёР°Р»СђРSС- СђРsР·Р»°РrРё.

Р—РiРёСђР°Р№РSP° СђРµРёРsРjРµРSPrРsРiР°РSP° РrРsР·Р° СђС,Р°РSPsРiРёС,Сђ 20 РjРi РSP° РrРsР±Ср. РђРsСђР° Р·Р±С-Р»СђСёРµРµРSPSСђ РrРsР·Рё РiСђРёР·РiРsРrРёС,Сђ РrРs РiРsС,РµРSСђС-Р№РSPsРiРs Р·СђРsСђС,Р°РSPSСђ РiРsР±С-СђРSPёС... РµС,,РµРёС,С-Рi, РrР»Сђ РrРµСђРёРё РiР°СђС-С”РSС,С-Рi С-Р· РSPµРrРsСђС,Р°С,РSСђРsСђ РiС-РrРiРsРiС-РrРrСђ РSP° Р»С-РёСрРiР°РSPSСђ РiСђРsС,СђРiРsРj 2 С,РёР¶РSС-Рi РrРsР·РsСђ 20 РjРi РrРsР·Ср РjРsР¶РSP° РiРsСђС,СрРiРsРiРs Р·Р±С-Р»СђСёРёС,Рё РrРs 60 РjРi РSP° РrРsР±Ср.

РiРёС°°Рs РiСђРsС,СђРiРsРj 10 С,РёР¶РSС-Рi Р»С-РёСрРiР°РSPSСђ РiС-РrСђСрС,РSС-Р№ РёР»С-РSС-СђРSPёР№ РµС,,РµРёС,, С,РµСђР°РiС-Сђ С,,Р»СрРsРёСђРµС,РёРSPsРj СђР»С-Рr РiРµСђРµСђРiР»СђРSСрС,Рё. РiРёС°°Рs Р±СрР»Рs РsС,СђРёРjР°РSPs РiРsР·РёС,РёРiРSPёР№ С,РµСђР°РiРµРiС,РёСђРSPёР№ РµС,,РµРёС, РiС-Рr Р»С-РёСрРiР°РSPSСђ, СђР»С-Рr РiСђРsРrРsРiР¶РёС,Рё С,РµСђР°РiС-Сђ С,,Р»СрРsРёСђРµС,РёРSPsРj. Р”РsР·Ср Р·Р±С-Р»СђСёСрСђС,Сђ С-РSPrРёРiС-РrСрР°Р»СђРSPs С- Р· РsР±РµСђРµР¶РSС-СђС,Сђ, С,РµСђР°РiС-Сђ РiРsС,СђС-Р±РSPs РiСђРsРiРsРrРёС,Рё РjС-РSС-РjР°Р»СђРSPsСђ РiС-РrС,СђРёРjСрСђСђРsСђ РrРsР·РsСђ. РµРµСђС-РsРrРёСђРSPs СђР»С-Рr РiРµСђРµРiР»СђРiР»СђРrР°С,Рё РiРsС,СђРµР±Ср С...РiРsСђРsРiРs Рi Р»С-РёСрРiР°РSPSС- РiСђРµРiР°СђР°С,РsРj. Р”РµСђРёС- РёР»С-РSС-СђРёСђС,Рё СђР°РrСђС,Сђ РiСђРsРiРsРrРёС,Рё СђСрРiСрС,РSСђ РiСђРёС...РsС,РµСђР°РiС-Сђ РiР°СђС-С”РSС,Р°Рj С-Р· РrРsСђС,Р°С,РSСђРsСђ РёР»С-РSС-СђРSPsСђ РiС-РrРiРsРiС-РrРrСђ РSP° С,,Р°СђРjР°РёРsС,РµСђР°РiС-Сђ.

РµСђРsР»РsРSPiРsРiР°РSP° С,,Р°СђРjР°РёРsС,РµСђР°РiС-Сђ (РiРsРSP°Рr 24 С,РёР¶РSС-) Ср РiР°СђС-С”РSС,С-Рi С-Р· РSP°Рiёђ™ СђР·Р»Р»РёРs-РjР°РSС-Р°РёР°Р»СђРSСёРjРё СђРsР·Р»°РrР°РjРё РSPµ РiРёРiСђР°Р»СђР°СђСђ.

РкРµСђРiРsРiР° Р±СђР»С-РjС-Сђ.

Р”Р»Сђ РrРsСђРsСђР»РёС... С- РiР°СђС-С”РSС,С-Рi Р»С-С,РSСђРsРiРs РiС-РёСр РrРsР·Р°

СГГС,Р°PSPsPIPëC,CH 20 PjPi PSP° PrPsP±Cf. PμCГPsP»PsPSPiPsPIP°PSP°
C,,P°CГPjP°PePsC,PμCГP°PiC-Cl (PiPsPSP°Pr 3 PjC-ГГCГCГC-) Cf PiP°CГC-C"PSC,C-PI C-P·
P±CfP»C-PjC-C"CH PSPμ PIPëPIC±P°P»P°CГCH.

P—P°PiP°P»CHPSC- CГPμPePsPjPμPSPPrP°CГC-C—.

P—PIPëC±P°PNPSCf CГPμPePsPjPμPSPPrPsPIP°PSCf PrPsP·Cf 20 PjPi PSP° PrPsP±Cf PjPsP¶PSP°
P·PjPμPSC€PëC,Pë P°P±Ps P·P±C-P»CHC€PëC,Pë. PҺP°PeCГPëPjP°P»CHPSP° PrPsP±PsPIP°
PrPsP·P° бГ 80 PjPi. P"PsP·Pë PiPsPSP°Pr 80 PjPi PSP° PrPsP±Cf PSPμ PIPëPIC±P°P»PëCГCH.

PαP»CfPsPeCГPμC,PëPS PjPsP¶Pμ P±CfC,Pë PiCГPëP·PSP°C±PμPSPëPN 1бГ"2 CГP°P·Pë PSP°
PrPsP±Cf PiC-Pr C±P°CГ C—PrPë P°P±Ps PiC-ГГP»CГ PSPμC—.

PμC-ГГP»CГ PiCГPëPiPëPSPμPSPSCГ PiCГPëPNPsPjCf PiCГPμPiP°CГP°C,Cf P°PeC,PëPIPSP°
CГCfP±CГC,P°PSCГC-CГ CГPëCГPeCfP»CHC" PI PsCГPiP°PSC-P·PjC- C%Pμ 2 C,PëP¶PSC-,
C%Ps CГP»C-Pr PICГP°C...PsPICfPIP°C,Pë PiCГPë PiCГPëP·PSP°C±PμPSPSC- C-PSC€PëC...
PiCГPμPiP°CГP°C,C-PI C±Pë PiCГPëPiPëPSPμPSPSC- P»C-PeCfPIP°PSPSCГ.

PμC-PrC,CГPëPjCзCHC±P° C,PμCГP°PiC-CГ. P"P»CГ PIPëCГPIP»PμPSPSCГ PiPsPIPSPsPiPs
PμC,,PμPeC,Cf C,,P»CfPsPeCГPμC,PëPSCf PjPsP¶Pμ P±CfC,Pë PiPsC,CГC-P±PSPs 3бГ"4
C,PëP¶PSC-.

P"PsP·Cf PiCГPμPiP°CГP°C,Cf PrP»CГ C...PIPsCГPëC... C-P· PSPëCГPePsPIPsCH P°P±Ps
PiPμC±C-PSPePsPIPsCH PSPμPrPsCГC,P°C,PSC-ГГC,CH, PrP»CГ C...PIPsCГPëC...
P»C-C,PSCHPsPiPs PIC-PeCf C-P· CГCfPiCfC,PSC-PjPë P·P°C...PIPsCГCHPIP°PSPSCГPjPë, P°
C,P°PePsP¶ PrP»CГ C...PIPsCГPëC..., CГPeC- PiCГPëPNPjP°CHC,CH C-PSC€C-
PiCГPμPiP°CГP°C,Pë, PiPsC,CГC-P±PSPs P·PSPëP·PëC,Pë.

PμP°CГC-C"PSC,Pë P»C-C,PSCHPsPiPs PIC-PeCз: PrPsP·Cf PiC-PrPIPëC%CfCHC,CH P·
PsP±PμCГPμP¶PSC-ГГC,CH. P—P°P·PIPëC±P°PN PrPsP±PsPIP° PrPsP·P° PSPμ
PiPμCГPμPIPëC%CfC" 40 PjPi. PҺP°PeCГPëPjP°P»CHPSP° PrPsP±PsPIP° PrPsP·P°
CГC,P°PSPsPIPëC,CH 60 PjPi.

P—PjPμPSC€PμPSCf PrPsP·Cf P°P±Ps C-PSC,PμCГPjC-C,CfCHC±PëPN PiCГPëPNPsPj
PiCГPμPiP°CГP°C,Cf (PSP°PiCГPëPeP»P°Pr, PePsP¶PSCf PrCГCfPiCf PrPsP±Cf) PjPsP¶PSP°
CГPμPePsPjPμPSPPrCfPIP°C,Pë PiP°CГC-C"PSC,P°Pj P· PiPμC±C-PSPePsPIPëPjPë
CГPsP·P»P°PrP°PjPë P°P±Ps PiCГPë CГCfPiCfC,PSC-PN C,PμCГP°PiC-C—
P»C-PeP°CГCГCHPePëPjPë P·P°CГPsP±P°PjPë, CГPeC- PiPsC,PμPSCГC-PNPSPs PjPsP¶CfC,CH
PIP·P°C"PjPsPrC-CГC,Pë C-P· PμCГPsPrPμPiPsPj.

PŸP»C-Pr CfPSPëPeP°C,Pë CГP°PiC,PsPIPsPiPs PiCГPëPiPëPSPμPSPSCГ C,PμCГP°PiC-C—
C,,P»CfPsPeCГPμC,PëPSPsPj. P"P»CГ PIC-PrPjC-PSPë PiCГPμPiP°CГP°C,Cf
PSPμPsP±C...C-PrPSPs PiPsCГC,CfPiPsPIPs P·PjPμPSC€CfPIP°C,Pë PrPsP·Cf PiCГPsC,CГPiPsPj
1-2 C,PëP¶PSC-PI P· PjPμC,PsCH CfPSPëPePSPμPSPSCГ CГPëPSPPrCГPsPjCf PIC-PrPjC-PSPë.
PiPeC%Ps P·бГ™ CГPIP»CГCHC,CHCГCГ CГPëPjPiC,PsPjPë PiPsPiC-CГC€PμPSPSCГ
CГC,P°PSCf PiC-Pr C±P°CГ P·PSPëP¶PμPSPSCГ PrPsP·Pë C±Pë PiCГPëPiPëPSPμPSPSCГ
P»C-PeCfPIP°PSPSCГ PiCГPμPiP°CГP°C,PsPj, CГP»C-Pr PiPsPIPμCГPSCfC,PëCГCГ PrPs
P»C-PeCfPIP°PSPSCГ PiPsPiPμCГPμPrPSCHPsCH PμC,,PμPeC,PëPIPSsCH
C,PμCГP°PiPμPIC,PëC±PSPsCH PrPsP·PsCH. P§PμCГPμP· PrPμCГPePëPN C±P°CГ P»C-PeP°CГ
PjPsP¶Pμ PiCГPsPrPsPIP¶PëC,Pë PiPsCГC,CfPiPsPIPμ P·PSPëP¶PμPSPSCГ PrPsP·Pë.

$\text{P}\ddot{\text{K}}\text{P}\mu$ $\text{P}\cdot\text{P}^\circ\text{C}\dot{\text{I}}\text{C}$, $\text{PsC}\dot{\text{I}}\text{P}\text{sPICrC}\dot{\text{H}}\text{C}$, CH $\text{PrC}-\text{C}$, $\text{C}\dot{\text{I}}\text{Pj}$ $\text{C}\ddagger\text{P}\mu\text{C}\dot{\text{H}}\text{P}\mu\text{P}\cdot$ $\text{PSP}\mu\text{PrPsC}\dot{\text{I}}\text{C}$, P°C , $\text{PSC}-\text{PN}\ddot{\text{e}}$
 $\text{PeP}\gg\text{C}-\text{PSC}-\text{C}\ddagger\text{PSP}\ddot{\text{e}}\text{PN}\ddot{\text{e}}$ $\text{PrPsC}\dot{\text{I}}\text{PIC}-\text{Pr}$ $\text{P}\cdot\text{P}^\circ\text{C}\dot{\text{I}}\text{C}$, $\text{PsC}\dot{\text{I}}\text{C}\dot{\text{r}}\text{PIP}^\circ\text{PSPSC}\dot{\text{I}}$ $\text{P}\gg\text{C}-\text{PeP}^\circ\text{C}\dot{\text{H}}\text{C}\dot{\text{I}}\text{CH}\text{PePsPiPs}$
 $\text{P}\cdot\text{P}^\circ\text{C}\dot{\text{I}}\text{PsP}\pm\text{Cr}$ $\text{P}\mu\text{C}\dot{\text{H}}\text{PsPrP}\mu\text{P}\ddot{\text{i}}$ Cr $\text{PrC}-\text{C}$, $\text{P}\mu\text{PN}\ddot{\text{e}}$.

PŸPëPjPïC,PsPjPë: PSCrPrPsC,P°, P±P»CĤPIP°PSPSCĭĭ, CĭCĭrPrPsPjPë, CĭPµCĤC†PµPIPs-
CĭCĭrPrPëPSPSC- CĤPsP·P»P°PrPë (PIPeP»CĤC†P°CĤC†Pë PiPsCĤCĭC€PµPSPSCĭĭ
CĭPëPSCĭCĭPµPIPsPiPs CĤPëC,PjCĭ C,P° C€P»CĭPSPsC†PePsPIC- P°CĤPëC,PjC-C—) C†Pë
P·PjC-PSPë P·PĽP", C%Ps PIPeP°P·CĭC" PSP° PiPsPrPsPIP¶PµPSPSCĭĭ C-PSC,PµCĤPIP°P»Cĭ QT,
CĭPµCĤC†PµPIC- PSP°PiP°PrPë, PIPeP»CĤC†P°CĤC†Pë CĤC-PrPeC- PIPëPiP°PrPePë *torsades de*
pointes, CĤPsP·P»P°PrPë PrPëC...P°PSPSCĭĭ, P·PjC-PSPë C†PµPSC,CĤP°P»CHpSPsC—
PSPµCĤPIPµPIPsC— CĭPëCĭC,PµPjPë PIC-Pr P·P±CĭrPrP¶PµPSPSCĭĭ PrPs PePsPjPë,
PiC-PiPsPjP°PSC-Cĭĭ.

P>C-PeCáPIP°PSPSCII: $\text{PiC}\tilde{\text{H}}\text{PsPIP}\text{PsPeCrPIP°PSPSCII}$ $\text{P}\pm\text{P}\gg\text{C}\tilde{\text{H}}\text{PIP°PSPSCII}$ $\text{P°P}\pm\text{Ps}$
 $\text{PiC}\tilde{\text{H}}\text{PsPjPëPIP°PSPSCII}$ $\text{CëP}\gg\text{CrPSPeP°}$, $\text{P}\cdot\text{P°C}\tilde{\text{I}}\text{C}$, $\text{PsC}\tilde{\text{I}}\text{CrPIP°PSPSCII}$ P°PeC , $\text{PëPIP}\text{PsPIP°PSP}\text{PsPiPs}$
 $\text{PICrPiC-P}\gg\text{P}\gg\text{CII}$, $\text{C}\tilde{\text{I}}\text{PsC}\tilde{\text{H}}\text{P}\pm\text{PuPSC}$, C-PI , $\text{C}\tilde{\text{I}}\text{PëPjPiC}$, PsPjP°C , $\text{PëC}\ddagger\text{PSP°}$ C-
 PiC-PrC , $\text{C}\tilde{\text{H}}\text{PëPjCrC}\tilde{\text{H}}\text{C}\ddagger\text{P°}$ C , $\text{PuC}\tilde{\text{H}}\text{P°PiC-CII}$. $\text{P}\tilde{\text{Y}}\text{PiPuC}\ddagger\text{PëC}$, $\text{C-C}\ddagger\text{PSP}\text{PsPiPs}$ P°PSC , PëPrPsC , CrPSPPu
 $\text{C-C}\tilde{\text{I}}\text{PSCrC''}$. $\text{P}\propto\text{PsC}\tilde{\text{H}}\text{C}\tilde{\text{I}}\text{PsPIP°PSPëPN}_2$ $\text{PrC-CrC}\tilde{\text{H}}\text{PuP}$. $\text{P°P}\pm\text{Ps}$ $\text{PrC-P°P}\gg\text{C-P}$.
 $\text{PiP°P}\gg\text{PsPuC}$, PuPeC , PëPIPSC- $\text{PiC}\tilde{\text{H}}\text{Pë}$ $\text{PiPuC}\tilde{\text{H}}\text{PuPrPsP}\cdot\text{CrPIP°PSPSC-}$ $\text{PuC}\tilde{\text{H}}\text{PsPrPuPiCr}$.

P P_μP_eP_sP_jP_μPSP_rP_sPIP°PSP_s PīC_ḡP_sPIP_sP_rPēC,_{Pē} P_jP_sPSC-C,_{P_s}C_ḡPēPSP_i CÍP_μC_ḡC†P_μPIP_sC—C,_{P°} P_rPēC...P°P»CH_bPSP_sC— P_rC—C_ḡP»CH_bPSP_sCÍC,_{C-}.

$\text{P}\ddot{\text{K}}\text{P}^{\circ}\text{P}\text{N}_{\text{e}}\text{C}\ddot{\text{P}}^{\circ}\text{C}\dot{\text{I}}^{\circ}\text{C}, \text{C}-\text{C}\ddot{\text{e}}\text{P}\ddot{\text{e}}\text{P}\text{jP}\ddot{\text{e}} \text{P}\ddot{\text{i}}\text{P}\text{sP}\pm\text{C}-\text{C}\ddot{\text{P}}\text{SP}\ddot{\text{e}}\text{P}\text{jP}\ddot{\text{e}} \text{C}\dot{\text{H}}\text{P}_{\mu}\text{P}^{\circ}\text{P}\text{eC}\dot{\text{I}}^{\circ}\text{C}-\text{C}\dot{\text{I}}\text{P}\text{jP}\ddot{\text{e}}, \text{P}\ddot{\text{i}}\text{C}\dot{\text{H}}\text{P}\text{s} \text{C}\dot{\text{I}}\text{P}\text{eC}-$
 $\text{P}\ddot{\text{i}}\text{P}\text{sP}\text{IC}-\text{P}\text{rP}\text{sP}\text{jP}\text{P}\gg\text{C}\dot{\text{I}}\text{P}\gg\text{P}\ddot{\text{e}} \text{P}\ddot{\text{i}}\text{C}\dot{\text{H}}\text{P}\text{sC}, \text{C}\dot{\text{I}}\text{P}\text{iP}\text{sP}\text{j} \text{P}\gg\text{C}-\text{P}\text{eC}\dot{\text{r}}\text{PIP}^{\circ}\text{PSPSC}\dot{\text{I}} \text{C}_{,,}\text{P}\gg\text{C}\dot{\text{r}}\text{P}\text{sP}\text{eC}\dot{\text{I}}^{\circ}\text{P}_{\mu}\text{C}, \text{P}\ddot{\text{e}}\text{PSP}\text{sP}\text{j},$
 $\text{C}'' \text{P}\ddot{\text{i}}\text{P}\text{sP}\gg\text{P}\text{sP}\text{IPSP}\ddot{\text{e}}\text{P}\text{N}_{\text{e}} \text{P}\pm\text{C}-\text{P}\gg\text{C}\dot{\text{H}}, \text{PSC}\dot{\text{r}}\text{P}\text{rP}\text{sC}, \text{P}^{\circ}, \text{P}\pm\text{P}_{\mu}\text{P}\cdot\text{C}\dot{\text{I}}^{\circ}\text{P}\text{sPSPSC}\dot{\text{I}}, \text{PIC}, \text{P}\text{sP}\text{jP}^{\circ} \text{C}, \text{P}^{\circ}$
 $\text{P}\text{rC}-\text{P}^{\circ}\text{C}\dot{\text{H}}\text{P}_{\mu}\text{C}\dot{\text{I}}. \text{P}\ddot{\text{I}}\text{PSC}, \text{P}_{\mu}\text{PSC}\dot{\text{I}}^{\circ}\text{P}\ddot{\text{e}}\text{PIPSC}-\text{C}\dot{\text{I}}^{\circ}\text{C}, \text{C}\dot{\text{H}} \text{C}, \text{P}^{\circ} \text{C}\ddot{\text{P}}^{\circ}\text{C}\dot{\text{I}}^{\circ}\text{C}, \text{P}\text{sC}, \text{P}^{\circ} \text{P}\ddot{\text{i}}\text{P}\text{sP}\pm\text{C}-\text{C}\ddot{\text{P}}\text{SP}\ddot{\text{e}}\text{C}...$
 $\text{C}\dot{\text{H}}\text{P}_{\mu}\text{P}^{\circ}\text{P}\text{eC}\dot{\text{I}}^{\circ}\text{C}-\text{P}\text{N}_{\text{e}} \text{P}\cdot\text{P}\text{jP}_{\mu}\text{PSC}\ddot{\text{e}}\text{C}\dot{\text{r}}\text{C}''\text{C}, \text{C}\dot{\text{H}}\text{C}\dot{\text{I}}^{\circ}\text{C}\dot{\text{I}} \text{P}\ddot{\text{i}}\text{C}\dot{\text{H}}\text{P}\ddot{\text{e}} \text{P}\ddot{\text{i}}\text{P}\text{sP}\text{rP}^{\circ}\text{P}\gg\text{C}\dot{\text{H}}\text{C}\ddot{\text{e}}\text{P}\text{sP}\text{jC}\dot{\text{r}}$
 $\text{P}\gg\text{C}-\text{P}\text{eC}\dot{\text{r}}\text{PIP}^{\circ}\text{PSPSC}- \text{C}, \text{P}^{\circ} \text{P}\cdot\text{P}^{\circ}\text{P}\cdot\text{PIP}\ddot{\text{e}}\text{C}\ddot{\text{P}}^{\circ}\text{P}\text{N}_{\text{e}} \text{PSP}_{\mu} \text{P}\ddot{\text{i}}\text{C}\dot{\text{H}}\text{P}\ddot{\text{e}}\text{P}\cdot\text{PIP}\text{sP}\text{rC}\dot{\text{I}}\text{C}, \text{C}\dot{\text{H}} \text{P}\text{rP}\text{s}$
 $\text{P}\ddot{\text{i}}\text{C}\dot{\text{H}}\text{P}\ddot{\text{e}}\text{P}\ddot{\text{i}}\text{P}\ddot{\text{e}}\text{PSP}_{\mu}\text{PSPSC}\dot{\text{I}} \text{C}, \text{P}_{\mu}\text{C}\dot{\text{H}}\text{P}^{\circ}\text{P}\ddot{\text{i}}\text{C}-\text{C}-.$

$P\ P_{\mu}P\cdot C\overline{H}PjP_{\mu}\ P\ddot{i}P_sP\pm C-C\neq P S P\ddot{e}C\dots C\overline{H}P_{\mu}P^{\circ}P_eC\uparrow C-PN_{\circ}.$

$\text{P}\ddot{\text{K}}\text{P}_{\mu}\text{P}\pm\text{P}^{\circ}\text{P}\|\text{P}^{\circ}\text{PSC}-\text{C}\ddot{\text{H}}\text{P}_{\mu}\text{P}^{\circ}\text{PeC}\ddagger\text{C}-\text{C}-$, $\text{PSP}^{\circ}\text{PIP}_{\mu}\text{PrP}_{\mu}\text{PSC}-\text{PSP}\ddot{\text{P}}\|\text{C}\ddagger\text{P}_{\mu}$, $\text{C},\text{P}^{\circ}$
 $\text{PeP}\gg\text{P}^{\circ}\text{C}\ddagger\text{P}\ddot{\text{C}}_{\mu}\text{C}-\text{PePsPIP}^{\circ}\text{PSC}-\text{C},\text{P}^{\circ}\text{PeP}\ddot{\text{P}}_{\text{P}}\text{C}\ddagger\text{P}\ddot{\text{P}}\text{PSPsPj}$: $\text{PrCrP}\|\text{P}_{\mu}\text{C}\ddagger\text{P}^{\circ}\text{C}\ddagger\text{C},\text{Ps}$ ($\geq 1/10$),
 $\text{C}\ddagger\text{P}^{\circ}\text{C}\ddagger\text{C},\text{Ps}$ ($\geq 1/100$, $< 1/10$), $\text{PSP}_{\mu}\text{C}\ddagger\text{P}^{\circ}\text{C}\ddagger\text{C},\text{Ps}$ ($\geq 1/1000$, $< 1/100$), $\text{C}\ddot{\text{H}}\text{C}-\text{PrPePs}$ ($\geq 1/10\ 000$,
 $< 1/1000$).

$$P - P_{\pm} P_s P_e C \acute{e} P_e C \overline{P} P_s P I C - C, P^{\circ} P \gg C - P_j C_{,,} P^{\circ} C, P \ddot{e} C \pm P S P_s C - C \acute{I} P \ddot{e} C \acute{I} C, P_u P_j P \ddot{e}$$

P C-PrPePs: C,C₇PsPjP±PsC†PëC,PsPiPμPSC-Cl, PSPμPNëC,C₇PsPiPμPSC-Cl, P»PuPNëPePsPiPμPSC-Cl.

P— P±PsPeCž C-PjCžPSPSPsC— CÍPëCÍC,PμPjPë

P C-PrPePs: CḡPμP°PeC†C-C— PiC-PiPμCḡC†CrC,P»PëPIPsCÍC,C-, PIPEP»CḡC†P°CḡC†Pë
P°PSPiC-PsPSPμPICḡPsC,PëC†PSPëPNᵇ PSP°P±CḡCḡPe, P°PSP°C,,C-P»P°PeC,PëC†PSPëPNᵇ
C€PsPe; P°PSP°C,,C-P»P°PeC,PsC—PrPSC- CḡPμP°PeC†C-C—, CÍPëCḡPsPIP°C,PePsPIP°
C...PIPsCḡPsP±P°.

P— P±PsPeCž PμPSPPrPsPeCḡPëPSPSPsC— CÍPëCÍC,PμPjPë

P C-PrPePs: PSPμPrPsCÍC,P°C,PsCḡ CÍPμPeCḡPμC†C-Cḡ P°PSC,PëPrC-CrCḡPμC,PëC†PSPsPiPs
PiPsCḡPjPsPSCr.

PḡPμC,P°P±PsP»C-C†PSC- PiPsCḡCžC€PμPSPSCḡ

PḡP°CÍC,Ps: P·PSPëPḡPμPSPSCḡ P°PiPμC,PëC,Cr, PIPEP»CḡC†P°CḡC†Pë P°PSPsCḡPμPeCÍC-Cḡ;

P C-PrPePs: PiC-PiPsPSP°C,CḡC-C”PjC-Cḡ.

PμCÍPëC...C-P°C,CḡPëC†PSC- PiPsCḡCžC€PμPSPSCḡ

P”CrPḡPμ C†P°CÍC,Ps: P±PμP·CÍPsPSPSCḡ, PIPEP»CḡC†P°CḡC†Pë CḡP°PSPePsPIPμ
PiCḡPsP±CrPrPḡPμPSPSCḡ, P±PμP·CÍPsPSPSCḡ PiCḡPë P·P°CÍPëPiP°PSPSC-,
P±PμP·CÍPsPSPSCḡ PIPSPsC†C-.

PḡP°CÍC,Ps: P·P±CrPrPḡPμPSPSCḡ, PSPμCḡPIPsP·PSC-CÍC,Cḡ, P·P°PSPμPiPsPePsC”PSPSCḡ,
PSP°PiCḡCrPḡPμPSC-CÍC,Cḡ, P·PSPëPḡPμPSPSCḡ P»C-P±C-PrPs, PIPEP»CḡC†P°CḡC†Pë
PIC,CḡP°C,Cr P»C-P±C-PrPs, PiPsCḡCrC€PμPSPSCḡ CÍPSCr, PIPEP»CḡC†P°CḡC†Pë
PiP°C,PsP»PsPiC-C†PSC- CÍPSPsPIPëPrC-PSPSCḡ, PSC-C†PSC- PjP°CḡPμPSPSCḡ.

PḡPμC†P°CÍC,Ps: PrPμPiPμCḡCÍPsPSP°P»C-P·P°C†C-Cḡ, PiC-PrPIPëC‰PμPSPëPNᵇ
PSP°CÍC,CḡC-PNᵇ, PμPNᵇC,,PsCḡPëC†PSPëPNᵇ PSP°CÍC,CḡC-PNᵇ, PiPsCḡCrC€PμPSPSCḡ
PjPëCÍP»PμPSPSCḡ, PiPsCḡCrC€PμPSPSCḡ PsCḡPiP°P·PjCr, PIPEP»CḡC†P°CḡC†Pë
P°PSPsCḡPiP°P·PjC-Cḡ, P±CḡCrPeCÍPëP·Pj, CÍCrC—C†PëPrP°P»CḡPSC- PrCrPjPePë C-
PiPsPIPμPrC-PSPeP°, PIPEP»CḡC†P°CḡC†Pë CÍPiCḡPsP±Pë CÍCrC—C†PëPrCr C,P°
CÍCrC—C†PëPr, CÍCrC—C†PëPrP°P»CḡPSCr PrPμPiCḡPμCÍC-Cḡ, PSP°PIPjPëCÍPSPμ
P·P°PIPrP°PSPSCḡ CÍPsP±C- C€PePsPrPë, P°CrC,PsP°PiCḡPμCÍPëPIPSC- C-PrPμC— C,P°
PiPsPIPμPrC-PSPeCr (C†C- CÍPëPjPiC,PsPjPë PjPsPḡCrC,CḡB P±CrC,Pë PSP°CÍP»C-PrPeP°PjPë
PsCÍPSPsPIPSPsPiPs P·P°C...PIPsCḡCḡPIP°PSPSCḡ).

P C-PrPePs: PiC-PiPsPjP°PSC-Cḡ, PjP°PSC-Cḡ, PiP°P»CḡC†PëPSP°C†C-C—, P°PḡPëC,P°C†C-Cḡ,
PiP°PSC-C†PSC- P°C,P°PePë, CÍPiP»CrC,P°PSC-CÍC,Cḡ CÍPIC-PrPsPjPsCÍC,C-,
PrPëCÍC,,PμPjC-Cḡ, P°PiCḡPμCÍC-Cḡ.

P— P±PsPeCž PSPμCḡPIPsPIPsC— CÍPëCÍC,PμPjPë

P”CrPḡPμ C†P°CÍC,Ps: PiPsP»PsPIPSPëPNᵇ P±C-P»Cḡ.

PḡP°CÍC,Ps: PiPsCḡCrC€PμPSPSCḡ CÍPIP°PiPë, P·P°PiP°PjPsCḡPsC†PμPSPSCḡ,
PrPëCÍPiPμPIP·C-Cḡ, P»PμC,P°CḡPiC-Cḡ, CÍPsPSP»PëPIC-CÍC,Cḡ, PIPEP»CḡC†P°CḡC†Pë
PiC-PiPμCḡCÍPsPjPSC-Cḡ, CÍPμPrP°C†C-Cḡ, C,CḡPμPjPsCḡ.

PḡPμC†P°CÍC,Ps: PiCÍPëC...PsPjPsC,PsCḡPSP° PiC-PiPμCḡP°PeC,PëPIPSC-CÍC,Cḡ,
PrPëCÍPeC-PSPμP·C-Cḡ, P°C,P°PeCÍC-Cḡ, PiPsCḡCrC€PμPSPSCḡ PePsPsCḡPrPëPSP°C†C-C—

СҒСҒС...С-PI, PjC-PsPeP»PsPSCҒСҒ, PİPsСҒСҒСҒPµPSPSCҒ PİP°PjБҒ™ СҒС,С-.

P C-PrPePs: СҒСҒPrPsPjPө, P°PeP°С, PөP·C-СҒ, P±CҒPePePsPiP»PsСҒP°P»СҒPSPөPNө
СҒPөPSPҒСҒPsPj, СҒPµСҒPsC,PsPSC-PSPsPiPөPNө СҒPөPSPҒСҒPsPj.

P— P±PsPeCз PsСҒPiP°PSC-PI P·PsСҒCз

P§P°СҒС,Ps: P·P°С,СҒPjP°PSPµPSPSCҒ P·PsСҒСҒ.

PќPµC±P°СҒС,Ps: PjC-PrСҒC-P°P·.

*P— P±PsPeCз PsСҒPiP°PSC-PI СҒP»CзC...Cз C,P° PIPµСҒС, PөP±CзP»CҒСҒPSPsPiPs
P°PİP°СҒP°С,Cз*

PќPµC±P°СҒС,Ps: CҒCҒPj CҒ PICҒС...P°С....

P— P±PsPeCз СҒPµСҒC†PµPIPs-СҒСзPrPөPSPSPsC— СҒPөСҒС,PµPjPө

P§P°СҒС,Ps: PIC-PrC±CҒС,C,СҒ СҒPµСҒC†PµP±PөC,C,СҒ, PİPsPrPsPiP¶PµPSPSCҒ
C-PSC,PµСҒPiP°P»CҒ QPӢ, PIC-PrC±CҒС,C,СҒ PİСҒPөPİP»PөPIC-PI, PiPeP»СҒC±P°СҒC±Pө
PiP°СҒСҒC±C- PİСҒPөPİP»PөPiPө.

PќPµC±P°СҒС,Ps: PiC-PİPsC,PµPSP·C-СҒ.

P C-PrPePs: CҒP»CҒPSPsC±PePsPiP° P°СҒPөC,PjC-СҒ, PiPeP»СҒC±P°СҒC±Pө *torsades de pointes*,
PiP°СҒPөCҒP»C-С,, PiP°P·PsPrPөP»CҒС,P°C†C-СҒ.

P— P±PsPeCз PrPөC...P°P»СҒPSPsC— СҒPөСҒС,PµPjPө

P§P°СҒС,Ps: PİPsP·C-С...P°PSPSCҒ.

PќPµC±P°СҒС,Ps: P·P°PrPөCҒPeP°, PSPsСҒPsPiP° PeСҒPsPiPsC,PµC±P°.

P C-PrPePs: C,,P°СҒPөPSPiC-С,, P»PµPiPµPSPµPIC- СҒPsP·P»P°PrPө (P·P°PİP°P»СҒPSC-
PİСҒPsC†PµСҒPө C±Pө СҒC-P·PSPsPjP°PSC-С,PSC- PiC-СҒС,PsPİP°С,PsP»PsPiC-C†PSC-
P·PjC-PSPө C,P°/P°P±Ps C,,C-P±СҒPsP·), PiPeP»СҒC±P°СҒC±Pө P°С,PµP»PµPeC,P°P·,
C-PSC,PµСҒСҒС,PөC†C-P°P»СҒPSPµ P·P°С...PiPsСҒСҒPiP°PSPSCҒ P»PµPiPµPSC-PI,
PİPSPµPiPjPsPSC-СҒ.

P— P±PsPeCз C,СҒP°PIPSsPiPs C,СҒP°PeC,Cз

P”CҒP¶Pµ C±P°СҒС,Ps: PrC-P°СҒPµСҒ, PSCҒPrPsC,P°.

P§P°СҒС,Ps: P±P»СҒPiP°PSPSCҒ, PrPөСҒPİPµPİСҒС-СҒ, СҒСҒС...С-СҒС,СҒ CҒ СҒPsC,С-.

PќPµC±P°СҒС,Ps: PrPөСҒС,,P°PiC-СҒ, CҒP»CҒPSPePsPiPs-PePөCҒPePsPiP° PeСҒPsPiPsC,PµC±P°,
PiPeP»СҒC±P°СҒC±Pө PeСҒPsPiPsC,PµC±CҒ P· CҒСҒPµPS, P±P»СҒPiP°PSPSCҒ
PeСҒPsPiБҒ™ СҒ, PeСҒPsPiБҒ™ СҒIPSPөСҒС,С- PiPөPİPsСҒPsP¶PSPµPSPSCҒ,
СҒPµPeC,P°P»СҒPSC- PeСҒPsPiPsC,PµC±C-, PiPµPjPsСҒP°PiC-C†PSCҒ PrC-P°СҒPµСҒ,
PjPµP»PµPSCҒ C- CҒP»CҒPSPePsPiCҒ PeСҒPsPiPsC,PµC±CҒ P· PiPөСҒP°P·PePө.

P C-PrPePs: P±C-P»СҒ CҒ СҒС,СҒP°PiPsC...PsPrC-.

$P \rightarrow P \pm PsPeC \acute{z} PiP_{\mu}PiP^{\circ}C, PsP \pm C - P \gg C - P^{\circ}C_{\overline{H}}PSPsC - C \acute{I}P\ddot{e}C \acute{I}C, P_{\mu}PjP\ddot{e}$

$P \ C - PrPePs: C - PrC - PsC \acute{I}P\ddot{e}PSPeC_{\overline{H}}P^{\circ}C, P\ddot{e}C \ddagger PSP\ddot{e}PN_{\circ} PiP_{\mu}PiP^{\circ}C, P\ddot{e}C, .$

$P \rightarrow P \pm PsPeC \acute{z} C \epsilon PeC - C_{\overline{H}}P\ddot{e} \ C, P^{\circ} \ PiC - PrC \epsilon PeC - C_{\overline{H}}PSPsC - PeP \gg C - C, PePsPIP\ddot{e}PSP\ddot{e}: P\ddot{S}P^{\circ}C \acute{I}C, Ps: PIP\ddot{e}C \acute{I}P\ddot{e}PiP^{\circ}PSPSC \sqcup, PIPeP \gg C_{\overline{H}}C \ddagger P^{\circ}C_{\overline{H}}C \ddagger P\ddot{e} \ P_{\mu}C_{\overline{H}}P\ddot{e}C, P_{\mu}PjC \acute{r}, P_{\mu}PeC \acute{I}C, , PsP \gg C - P^{\circ}C, P\ddot{e}PIPSC - PIP\ddot{e}C \acute{I}P\ddot{e}PiP\ddot{e}, PiC - C, PSP\ddot{e}C \ddagger C_{\overline{H}}, P_{\mu}C_{\overline{H}}P\ddot{e}C, P_{\mu}PjP^{\circ}C, PsP \cdot PSC -, C, , PsP \gg C - PeC \acute{r}P \gg C \sqcup C_{\overline{H}}PSC -, PiP_{\mu}PSP_{\mu}C_{\overline{H}}P^{\circ}P \gg C - P \cdot PsPIP^{\circ}PSC -, PjP^{\circ}PeC \acute{r}P \gg C \sqcup C_{\overline{H}}PSC -, PjP^{\circ}PeC \acute{r}P \gg Ps - PiP^{\circ}PiC \acute{r}P \gg C \sqcup C_{\overline{H}}PSC -, PiP^{\circ}PiC \acute{r}P \gg C \sqcup C_{\overline{H}}PSC -, PePsC_{\overline{H}}PsPiPsPrC - P \pm PSC - PIP\ddot{e}C \acute{I}P\ddot{e}PiP\ddot{e}, C \acute{I}PIP_{\mu}C_{\overline{H}}P \pm P \gg C \sqcup C \ddagger C - PIP\ddot{e}C \acute{I}P\ddot{e}PiP\ddot{e}, PIP_{\mu}P \cdot P\ddot{e}PeC \acute{r}P \gg C \sqcup C_{\overline{H}}PSC - PIP\ddot{e}C \acute{I}P\ddot{e}PiP^{\circ}PSPSC \sqcup, PIP\ddot{e}C \acute{I}P\ddot{e}PiP^{\circ}PSPSC \sqcup PSP^{\circ}PIPePsP \gg Ps \ PiC \acute{r}PiPeP^{\circ}; C \acute{I}PIP_{\mu}C_{\overline{H}}P \pm C - P \P, PeC_{\overline{H}}PsPiP\ddot{e}PIB_{\overline{H}}^{\text{TM}} C \sqcup PSPeP^{\circ}, PiC - PiP_{\mu}C_{\overline{H}}PiC - PrC_{\overline{H}}PsP \cdot.$

$P \acute{K}P_{\mu}C \ddagger P^{\circ}C \acute{I}C, Ps: P^{\circ}P \gg PsPiP_{\mu}C \ddagger C - C \sqcup, PiC - PrPIP\ddot{e}C \% P_{\mu}PSP^{\circ} \ C \acute{I}C \dots P\ddot{e}P \gg C_{\overline{H}}PSC - C \acute{I}C, C_{\overline{H}} \ PrPs PiPsC \sqcup PIP\ddot{e} \ C \acute{I}P\ddot{e}PSC \ddagger C - PI, C \dots PsP \gg PsPrPSP\ddot{e}PN_{\circ} \ PiC - C, .$

$P \ C - PrPePs: P^{\circ}PSPiC - PsPrP_{\mu}PjP^{\circ}, P_{\mu}PeC \dots C - PjPsP \cdot P\ddot{e}, B \ C_{\overline{H}}P_{\mu}P^{\circ}PeC \ddagger C - C - C, , PsC, PsC \ddagger C \acute{r}C, P \gg P\ddot{e}IPsC \acute{I}C, C -, PiC \acute{r}C_{\overline{H}}PiC \acute{r}C_{\overline{H}}P^{\circ}, PjC \acute{r}P \gg C_{\overline{H}}C, P\ddot{e}C, , PsC_{\overline{H}}PjPSP^{\circ} P_{\mu}C_{\overline{H}}P\ddot{e}C, P_{\mu}PjP^{\circ}, C \% Ps \ PjPsP \P P_{\mu} \ PiC_{\overline{H}}PsPiC_{\overline{H}}P_{\mu}C \acute{I}C \acute{r}PiP^{\circ}C, P\ddot{e} \ PrPs \ C \acute{I}P\ddot{e}PSPrC_{\overline{H}}PsPjC \acute{r} P \acute{Y}C, C - PIP_{\mu}PSC \acute{I}P^{\circ} \ B_{\overline{H}} \ P \ P \P PsPSC \acute{I}PsPSP^{\circ} \ P^{\circ}P \pm Ps \ C, PsPeC \acute{I}P\ddot{e}C \ddagger PSPsPiPs P_{\mu}PiC - PrP_{\mu}C_{\overline{H}}PjP^{\circ}P \gg C_{\overline{H}}PSPsPiPs \ PSP_{\mu}PeC_{\overline{H}}PsP \gg C - P \cdot C \acute{r} (C \acute{I}P\ddot{e}PSPrC_{\overline{H}}PsPj \ P \gg P^{\circ}PN_{\circ}C \text{''} P \gg P^{\circ}).$

$P \rightarrow P \pm PsPeC \acute{z} PeC - C \acute{I}C, PePsPIP s - PjB_{\overline{H}}^{\text{TM}} C \sqcup P \cdot PsPIP sC - C \acute{I}P\ddot{e}C \acute{I}C, P_{\mu}PjP\ddot{e}$

$P\ddot{S}P^{\circ}C \acute{I}C, Ps: P^{\circ}C_{\overline{H}}C, C_{\overline{H}}P^{\circ}P \gg PiC - C \sqcup.$

$P \acute{K}P_{\mu}C \ddagger P^{\circ}C \acute{I}C, Ps: B \ PiPsC \acute{I}C - PiC \acute{r}PIP^{\circ}PSPSC \sqcup \ PjB_{\overline{H}}^{\text{TM}} C \sqcup P \cdot C - PI.$

$P \ C - PrPePs: PjC - P^{\circ}P \gg C_{\overline{H}}PiC - C \sqcup.$

$P \rightarrow P \pm PsPeC \acute{z} C \acute{I}P_{\mu}C \ddagger PsPIP\ddot{e}PrC - P \gg C_{\overline{H}}PSPsC - C \acute{I}P\ddot{e}C \acute{I}C, P_{\mu}PjP\ddot{e}$

$P\ddot{S}P^{\circ}C \acute{I}C, Ps: C \ddagger P^{\circ}C \acute{I}C, P_{\mu} \ C \acute{I}P_{\mu}C \ddagger PsPIP\ddot{e}PiC \acute{r}C \acute{I}PeP^{\circ}PSPSC \sqcup, PIPeP \gg C_{\overline{H}}C \ddagger P^{\circ}C_{\overline{H}}C \ddagger P\ddot{e} PiPsP \gg C - P^{\circ}PeC \acute{r}C_{\overline{H}}C - C_{\overline{H}}.$

$P \acute{K}P_{\mu}C \ddagger P^{\circ}C \acute{I}C, Ps: PrP\ddot{e}P \cdot C \acute{r}C_{\overline{H}}C - C \sqcup.$

$P \ C - PrPePs: P \cdot P^{\circ}C, C_{\overline{H}}P\ddot{e}PjPeP^{\circ} \ C \acute{I}P_{\mu}C \ddagger C -, C_{\overline{H}}PsP \cdot P \gg P^{\circ}PrP\ddot{e} \ C \acute{I}P_{\mu}C \ddagger PsPIP\ddot{e}PiC \acute{r}C \acute{I}PeP^{\circ}PSPSC \sqcup.$

$P \rightarrow P \pm PsPeC \acute{z} C_{\overline{H}}P_{\mu}PiC_{\overline{H}}PsPrC \acute{z}PeC, P\ddot{e}PIPSPsC - C \acute{I}P\ddot{e}C \acute{I}C, P_{\mu}PjP\ddot{e}$

$P\ddot{S}P^{\circ}C \acute{I}C, Ps: PiC - PSP_{\mu}PePsP \gg PsPiC - C \ddagger PSP^{\circ} \ PeC_{\overline{H}}PsPIPsC, P_{\mu}C \ddagger P^{\circ}, PIPeP \gg C_{\overline{H}}C \ddagger P^{\circ}C_{\overline{H}}C \ddagger P\ddot{e} PeC_{\overline{H}}PsPIPsC, P_{\mu}C \ddagger C - P \cdot \ C \epsilon P\ddot{e}PN_{\circ}PeP\ddot{e} \ PjP^{\circ}C, PeP\ddot{e}, PrP\ddot{e}C \acute{I}C, , C \acute{r}PSPeC \ddagger C - C_{\overline{H}} \ PjP^{\circ}C, PeP\ddot{e}, PjP^{\circ}C, PePsPIC \acute{r} \ PeC_{\overline{H}}PsPIPsC, P_{\mu}C \ddagger C \acute{r}, \ PeC_{\overline{H}}PsPIPsC, P_{\mu}C \ddagger C \acute{r} \ P \cdot \ PiP_{\mu}PSC - C, P^{\circ}P \gg C - C - PI, PjP_{\mu}PSPsPjP_{\mu}C, C_{\overline{H}}PsC_{\overline{H}}P^{\circ}PiC - C_{\overline{H}}, PiPsP \gg C - PjP_{\mu}C, C_{\overline{H}}PsC_{\overline{H}}P^{\circ}PiC - C_{\overline{H}}, PiPsC \acute{I}C, PjP_{\mu}PSPsPiP^{\circ}C \acute{r}P \cdot P^{\circ}P \gg C_{\overline{H}}PSC \acute{r} \ PeC_{\overline{H}}PsPIPsC, P_{\mu}C \ddagger C \acute{r}, B \ PIP^{\circ}PiC - PSP^{\circ}P \gg C_{\overline{H}}PSC \acute{r} \ PeC_{\overline{H}}PsPIPsC, P_{\mu}C \ddagger C \acute{r}; P_{\mu}C_{\overline{H}}P_{\mu}PeC, P\ddot{e}P \gg C_{\overline{H}}PSP^{\circ} \ PrP\ddot{e}C \acute{I}C, , C \acute{r}PSPeC \ddagger C - C \sqcup, C_{\overline{H}}PsP \cdot P \gg P^{\circ}PrP\ddot{e} P_{\mu}C \sqcup PeC \acute{r}P \gg C \sqcup C \ddagger C - C -, PIPeP \gg C_{\overline{H}}C \ddagger P^{\circ}C_{\overline{H}}C \ddagger P\ddot{e} \ PSP_{\mu}PrPsC \acute{I}C, P^{\circ}C, PSC - C \acute{I}C, C_{\overline{H}} P_{\mu}C \sqcup PeC \acute{r}P \gg C \sqcup C \ddagger C - C -, PrP\ddot{e}C \acute{I}C, , C \acute{r}PSPeC \ddagger C - C_{\overline{H}} \ P_{\mu}C \sqcup PeC \acute{r}P \gg C \sqcup C \ddagger C - C -, PiP_{\mu}C_{\overline{H}}P_{\mu}PrC \ddagger P^{\circ}C \acute{I}PSC \acute{r} \ P_{\mu}C \sqcup PeC \acute{r}P \gg C \sqcup C \ddagger C - C_{\overline{H}}, P \cdot P^{\circ}C, C_{\overline{H}}P\ddot{e}PjPeC \acute{r} \ P_{\mu}C \sqcup PeC \acute{r}P \gg C \sqcup C \ddagger C - C -, C_{\overline{H}}P_{\mu}C, C_{\overline{H}}PsPiC_{\overline{H}}P^{\circ}PrPSC \acute{r} \ P_{\mu}C \sqcup PeC \acute{r}P \gg C \sqcup C \ddagger C - C_{\overline{H}}.$

$P \acute{K}P_{\mu}C \ddagger P^{\circ}C \acute{I}C, Ps: C \acute{I}P_{\mu}PeC \acute{I}C \acute{r}P^{\circ}P \gg C_{\overline{H}}PSP^{\circ} \ PrP\ddot{e}C \acute{I}C, , C \acute{r}PSPeC \ddagger C - C \sqcup.$

P C-PrPePs: PiP°P»P°PeC,PsCḡPμCḡ, PiC-PiPμCḡPiCḡPsP»P°PeC,PëPSPμPjC-Cḡ,
PiCḡC-P°PiC-P·Pj.

P—P°PiP°P»CHPSC- CḡPsP·P»P°PrPë

P"CrPḡPμ C‡P°CḡC,Ps: CḡP»P°P±PeC-CḡC,CH, PIPeP»CḡC‡P°CḡC‡Pë P°CḡC,PμPSC-Cḡ.

P§P°CḡC,Ps: PIC-PrC‡CrC,C,Cḡ C,CḡPμPjC,C-PSPSCḡ, PsP·PSPsP±.

PḡPμC‡P°CḡC,Ps: PIC,PsPjP°, PiPsPiP°PSPμ CḡP°PjPsPiPsC‡CrC,C,Cḡ, PIC-PrC‡CrC,C,Cḡ
C...PsP»PsPrCr, PḡP°CḡCr.

P C-PrPePs: PeCḡPsPIPsC,PμC‡P° CḡP»PëP·PsPIPsC— PsP±PsP»PsPSPePë.

P"PsCḡP»C-PrPḡPμPSPSCḡ

P§P°CḡC,Ps: P·PSPëPḡPμPSPSCḡ PjP°CḡPë C,C-P»P°.

PḡPμC‡P°CḡC,Ps: PiC-PrPIPëC%PμPSPSCḡ CḡC-PIPSCḡ C,CḡP°PSCḡP°PjC-PSP°P·Pë C,P°
PiP°PjPjP°·PiP»CḡC,P°PjC-P»C,CḡP°PSCḡC,,PμCḡP°P·Pë.

PhPiPëCḡ PsPeCḡPμPjPëC... PiPsP±C-C‡PSPëC... CḡPμP°PeC‡C-PNḡ.

PŸCḡC—C‡PëPrP°P»CHPSC- PrCḡPjPePë.

PμC-Pr C‡P°Cḡ PiCḡPëPNḡPsPjCr C,,P»CrPsPeCḡPμC,PëPSCḡ C‡Pë PIC-PrCḡP°P·Cr PiC-CḡP»Cḡ
PiCḡPëPiPëPSPμPSPSCḡ P·P°CḡC,PsCḡCrPIP°PSPSCḡ C,,P»CrPsPeCḡPμC,PëPSCḡ
PiPsPIC-PrPsPjP»CḡP»PsCḡCH PiCḡPs PIPëPiP°PrPePë CḡCrC—C‡PëPrP°P»CHPSPëC...
PrCrPjPsPe C,P° PiPsPIPμPrC-PSPePë (PrPëPI. CḡPsP·PrC-P» B«PhCḡPsP±P»PëPIPsCḡC,C-
P·P°CḡC,PsCḡCrPIP°PSPSCḡB»).

*PμPμCḡPμP»PsPjPë PeC-CḡC,PsPe: PμPiC-PrPμPjC-PsP»PsPiC-C‡PSC-
PrPsCḡP»C-PrPḡPμPSPSCḡ, PiCḡPsPIPμPrPμPSC-B PI PsCḡPSPsPIPSPsPjCr Cr
PiP°C‡C-C"PSC,C-PI PIC-PePsPj PIC-Pr 50 CḡPsPeC-PI, PiPsPeP°P·CrCḡC,CH
PiC-PrPIPëC%PμPSPSCḡ CḡPëP·PëPeCr PiPμCḡPμP»PsPjC-PI PeC-CḡC,PsPe Cr
PiP°C‡C-C"PSC,C-PI, CḡPeC- PsC,CḡPëPjCrCḡC,CH C-PSPiC-P±C-C,PsCḡPë
P·PIPsCḡPsC,PSPsPiPs P·P°C...PsPiP»PμPSPSCḡ CḡPμCḡPsC,PsPSC-PSCḡ C,P°
P°PSC,PëPrPμPiCḡPμCḡP°PSC,Pë. PhPμC...P°PSC-P·Pj CḡPsP·PIPëC,PeCr PrP°PSPëC...
CḡPëP·PëPeC-PI PSPμPIC-PrPsPjPëPNḡ.*

*PŸPëPSPPrCḡPsPj PIC-PrPjC-PSPë. PμCḡPëPiPëPSPμPSPSCḡ PiCḡPëPNḡPsPjCr
C,,P»CrPsPeCḡPμC,PëPSCḡ PiPμCḡPμPIP°PḡPSPs PiCḡPëP·PIPsPrPëC,CH PrPs
CḡPëPjPiC,PsPjC-PI PIC-PrPjC-PSPë.*

PḡP°PNḡC‡P°CḡC,C-CëPëPjPë CḡPëPjPiC,PsPjP°PjPë CḡPëPSPPrCḡPsPjCr PIC-PrPjC-PSPë C":
P·P°PiP°PjPsCḡPsC‡PμPSPSCḡ, CḡPsP·P»P°PrPë C‡CrC,P»PëPIPsCḡC,C- (PIPeP»CḡC‡P°CḡC‡Pë
PiP°CḡPμCḡC,PμP·C-C—), CḡPsP·P»P°PrPë CḡPSCḡ (PIPeP»CḡC‡P°CḡC‡Pë P±PμP·CḡPsPSPSCḡ
C- C,CḡPḡPeC- CḡPSPsPIPëPrC-PSPSCḡ), P°CḡC,PμPSC-Cḡ, P°PḡPëC,P°C‡C-Cḡ C‡Pë
P·P±CrPrPḡPμPSPSCḡ, PSCḡPrPsC,P° C,P°/P°P±Ps P±P»CḡPIP°PSPSCḡ, C,CḡPμPjPsCḡ C-
PiPsP»PsPIPSPëPNḡ P±C-P»CH. P—P°PiP°P»PsPj CḡPëPjPiC,PsPjPë PIC-PrPjC-PSPë
PiPsPjC-CḡPSPsPiPs C‡Pë CḡPμCḡPμPrPSCḡPsPiPs CḡC,CḡPiPμPSCḡ C,CḡPḡPePsCḡC,C-,

1. $\text{P}\ddot{\text{Y}}\text{C}\acute{\text{r}}\text{C}\ddot{\text{H}}\text{P}\text{IP}_{\mu}\text{PN}_{\text{2}}\text{B}_{,,}-214$, $\text{P}''\text{C}-\text{P}\gg\text{C}\ddot{\text{I}}\text{PSPeP}^{\circ}\text{B}_{,,}-20$, $\text{P}''\text{P}^{\circ}\text{PIC}_{,}\text{P}\ddot{\text{I}}\text{PSPrP}\gg.\text{P}\bullet\text{C}\ddot{\text{H}}\text{C}-\text{C}\ddot{\text{I}}$, $\text{P}\alpha\text{P}^{\circ}\text{P}\cdot\text{P}^{\circ}\text{P}\ddot{\text{I}}\text{P}\ddot{\text{I}}$, $\text{P}_{\text{II}}\text{C}-\text{P}\ddot{\text{I}}\text{P}^{\circ}\text{C}\ddot{\text{H}}\text{C}-\text{P}^{\circ}$, $\text{P}\ddot{\text{Y}}\text{C}-\text{P}\gg\text{C}\ddot{\text{H}}\text{P}\text{IP}^{\circ}\text{C}\acute{\text{I}}\text{C}\acute{\text{I}}\text{P}^{\circ}\text{B}\ddot{\text{H}}\text{ } 396230$, $\text{PJ.P}\ddot{\text{Y}}$. $\text{P}''\text{P}^{\circ}\text{PrC}\ddot{\text{H}}\text{P}^{\circ}\text{C}-\text{P}\acute{\text{K}}\text{P}^{\circ}\text{PiP}^{\circ}\text{C}\ddot{\text{H}}\text{P}\ddot{\text{I}}\text{P}^{\circ}\text{PIP}_{\mu}\text{P}\gg\text{C}-$, $\text{P}\ddot{\text{I}}\text{PSPrC}-\text{C}\ddot{\text{I}}$.
2. 6-9, $\text{P}\bullet\text{P}_{\text{II}}\text{P}\ddot{\text{I}}\text{P}_{\text{II}}$, $\text{P}_{\text{Lb}}\text{P}^{\circ}\text{C}\ddot{\text{H}}\text{C}$, $\text{PsP}\gg\text{C}-$, $\text{P}'\text{P}^{\circ}\text{C}\ddot{\text{H}}\text{C}-\text{P}'\text{C}\ddot{\text{H}}\text{P}^{\circ}\text{C}...\text{PjP}^{\circ}\text{PSP}^{\circ}$, $\text{P}''\text{P}\P\text{P}^{\circ}\text{PjPjC}\acute{\text{r}}-181133$, $\text{P}''\text{P}\P\text{P}^{\circ}\text{PiPjC}\acute{\text{r}}\text{C}-\text{P}_{\text{Lb}}\text{P}^{\circ}\text{C}\epsilon\text{PjC}-\text{C}\ddot{\text{H}}$, $\text{P}\ddot{\text{I}}\text{PSPrC}-\text{C}\ddot{\text{I}}$.