

PIPsPrCḡP°P·PSPëPeP°, C%Ps CÍC,PëPjCrP»CḡC" C—C— CrC,PIPsCḡPµPSPSCḡ.
PµCḡPëPiPSC-CḡPµPSPSCḡ C" PrPsP·PsP·P°P»PµP¶PSPëPj C- PIPiP»PëPIP°C" PSP°
P±P°P·P°P»CHbPSCr C,P° CÍC,PëPjCrP»CHbPSIP°PSCr CÍPµPeCḡPµC†C-Cḡ
CëP»CrPSPePsPIPsPiPs CÍPsPeCr. P>C-PeCrPIP°PSPSCḡ PIP°PSC,PsPiCḡP°P·PsP»PsPj
P·PjPµPSCëCrC" CḡC-PIPµPSCḡ PePëCÍP»PsC,PSPsCÍC,C- CëP»CrPSPeP°, C%Ps
CÍPiCḡPëCḡPëPSCḡC" PiCḡPsPiPsCḡC†C-PNëPSPµ P·P±C-P»CHbCëPµPSPSCḡ
PIPëPrC-P»PµPSPSCḡ PiP°CÍC,CḡPëPSCr. P—P±C-P»CHbCëPµPSPSCḡ CḡC-PIPSCḡ
PiP°CÍC,CḡPëPSCr C" PsP±PsCḡPsC,PSPëPj. PhCÍPeC-P»CHbPePë PIP°PSC,PsPiCḡP°P·PsP»
P·PIbḡ™ CḡP·CrC"C,CHbCÍCḡ P· C,,PµCḡPjPµPSC,P°PjPë, PIC-PrPrP°P»PµPSPëPjPë PIC-Pr
PeP»C-C,PëPSPSPëC... CḡPµC†PµPiC,PsCḡC-PI, PIC-PS PIPiP»PëPIP°C"B PSP°
CÍPµPeCḡPµC†C-Cḡ CÍPsP»CḡPSPsC— PePëCÍP»PsC,PëB PSPµP·P°P»PµP¶PSPs PIC-Pr
CÍC,PëPjCrP»CḡC†C-C— C-PSCëPëPjPë CḡPµCḡPsPIPëPSP°PjPë (P°C†PµC,PëP»C...PsP»C-PSPsPj,
PiC-CÍC,P°PjC-PSPsPj, PiP°CÍC,CḡPëPSPsPj). P·C,,PµPeC, PiCḡPë PiPµCḡPsCḡP°P»CHbPSPsPjCr
C,P° PIPSCrC,CḡC-CëPSCḡPsPIPµPSPSPsPjCr P·P°CÍC,PsCÍCrPIP°PSPSC- PiCḡPµPiP°CḡP°C,Cr
PsPrPSP°PePsPIPëPNë.

P—P°CÍC,PsCÍCrPIP°PSPSCḡ PIP°PSC,PsPiCḡP°P·PsP»Cr P·P±C-P»CHbCëCrC" CḡC-PIPSC-
PiP°CÍC,CḡPëPSCr PSP°C,C%Pµ. PµCḡPë PePsCḡPsC,PePsCÍC,CḡPsPePsPIPsPjCr
P·P°CÍC,PsCÍCrPIP°PSPSC- PIPsPSPë Cr P±C-P»CHbCëPsCÍC,C- PIPëPiP°PrPeC-PI PSPµ
PiPµCḡPµPIPëC%CrCḡC,CH PIPµCḡC...PSCḡPsC— PjPµP¶C- PSPsCḡPjPë. B-Pj CḡP°P·C-
B PrPsPIPiPsC,CḡPëPIP°P»PsPiPs P»C-PeCrPIP°PSPSCḡ CḡC-PIPSC- PiP°CÍC,CḡPëPSCr Cr
P±C-P»CHbCëPsCÍC,C- PIPëPiP°PrPeC-PI P·CḡPsCÍC,P°CḡC,CH PIPrPIC-CḡC-. P†C...
B-PSP°PrPjC-CḡPSPµ P·P±C-P»CHbCëPµPSPSCḡ PIPëPSPëPeP°C" P»PëCëPµ Cr
PiPsPsPrPëPSPsPePëC... PIPëPiP°PrPeP°C.... B PİPe PSP°CÍP»C-PrPsPe, C-PSPsPrC- PiCḡPë
PrPsPIPiPsC,CḡPëPIP°P»PsPjCr P»C-PeCrPIP°PSPSC- CÍPiPsCÍC,PµCḡC-PiP°C"C,CHbCÍCḡ
CÍP»P°P±PePµ P°P±Ps PiPsPjC-CḡPSPµ P·P±C-P»CHbCëPµPSPSCḡ CÍPiPµC†PëC,,C-CḡPSPëC...
PµPSPPrPsPeCḡPëPSPSPëC... (ECL) PeP»C-C,PëPS Cr CëP»CrPSPeCr (PiPsPrC-P±PSPs PrPs
P°PrPµPSPsPjP°C,PsC—PrPSPsC— PiC-PiPµCḡPiP»P°P·C-C—). PhPrPSP°Pe, P·PiC-PrPSPs P·
PiCḡPsPIPµPrPµPSPëPjPë PSP° PrP°PSPëPNë PjPsPjPµPSC, PrPsCÍP»C-PrP¶PµPSPSCḡPjPë,
CrC,PIPsCḡPµPSPSCḡ PeP»C-C,PëPS-PiPsPiPµCḡPµPrPSPëPeC-PI
PSPµPNëCḡPsPµPSPPrPsPeCḡPëPSPSPëC... PiCrC...P»PëPS (P°C,PëPiPsPIP°
PiC-PiPµCḡPiP»P°P·C-Cḡ) P°P±Ps PSPµPNëCḡPsPµPSPPrPsPeCḡPëPSPSPëC... PiCrC...P»PëPS
CëP»CrPSPeP°, CḡPeC- P±CrP»Ps PIPëCḡPIP»PµPSPs Cr PrPsCÍP»C-PrP¶PµPSPSCḡC... PSP°
C,PIP°CḡPëPSP°C..., Cr P»CḡPrPµPNë PSPµ CÍPiPsCÍC,PµCḡC-PiP°P»PsCÍCḡ.

P— PsPiP»CḡPrCr PSP° CḡPµP·CrP»CHbC,P°C,Pë PrPsCÍP»C-PrP¶PµPSCḡ PSP°
C,PIP°CḡPëPSP°C..., PSPµ PjPsP¶PSP° PiPsPIPSC-CÍC,Cḡ PIPëPeP»CḡCḡPëC,Pë PIPiP»PëPI
PrPsPIPiPsC,CḡPëPIP°P»PsPiPs (P±C-P»CHbCëPµ PsPrPSPsPiPs CḡPsPeCr) P»C-PeCrPIP°PSPSCḡ
PiP°PSC,PsPiCḡP°P·PsP»PsPj PSP° PµPSPPrPsPeCḡPëPSPSC- PiP°CḡP°PjPµC,CḡPë
C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë.

PkP° C,,PsPSC- P»C-PeCrPIP°PSPSCḡ P°PSC,PëCÍPµPeCḡPµC,PsCḡPSPëPjPë
P»C-PeP°CḡCÍCHbPePëPjPë P·P°CÍPsP±P°PjPë CḡC-PIPµPSCḡ PiP°CÍC,CḡPëPSCr PI
CÍPëCḡPsPIP°C,C†C- PeCḡPsPIC- P·CḡPsCÍC,P°C" Cr PIC-PrPiPsPIC-PrCHb PSP°
P·PSPëP¶PµPSPSCḡ CÍPµPeCḡPµC†C-C— PePëCÍP»PsC,Pë. PḡCḡC-Pj C,PsPiPs, CḡPµCḡPµP·
P·PSPëP¶PµPSPSCḡ PePëCÍP»PsC,PSPsCÍC,C- CëP»CrPSPeP° PiC-PrPIPëC%CrC"C,CHbCÍCḡ
CḡC-PIPµPSCḡ C...CḡPsPjPsPiCḡP°PSC-PSCr Ph (CgA). PµC-PrPIPëC%PµPSPëPNë
CḡC-PIPµPSCḡ CgA PjPsP¶Pµ PIPiP»PëPIP°C,Pë PSP° CḡPµP·CrP»CHbC,P°C,Pë
PrPsCÍP»C-PrP¶PµPSCḡ PiCḡPë PrC-P°PiPSPsCÍC,PëC†C-
PSPµPNëCḡPsPµPSPPrPsPeCḡPëPSPSPëC... PiCrC...P»PëPS. PkP°CḡPIPSC-
PsPiCrP±P»C-PePsPIP°PSC- PrP°PSC- CÍPIC-PrCḡP°C,CH PiCḡPs C,Pµ, C%Ps

P»C-PeCfPIP°PSPSCЦ C-PSPiC-P±C-C,PsCђP°PjPë PiCђPsC,PsPSPSPSc— PiPsPjPiPë CђP»C-Pr PiCђPëPiPëPSPëC,Pë PiCђPsC,ЦIPIPsPj PiPµCђC-PsPrCf PIC-Pr 5 PrPSC-PI PrPs 2 C,PëP¶PSC-PI PrPs PIPëPjC-CђCђPIP°PSCђ CђC-PIPSCЦ CgA. PiPµ PrP°C” P·PjPsPiCf CђC-PIPSCђ CgA, ЦIPIePëP№ PjPsP¶Pµ P±CfC,Pë C...PëP±PSPs PiC-PrPIPëC%PµPSPëPj PiC-CђP»CЦ P»C-PeCfPIP°PSPSCЦ P†PµPµ,B PiPsPIPµCђPSCfC,PëCђCЦ PI PrC-P°PiP°P·PsPS PSPsCђPjP°P»CHPSPëC... P·PSP°C†PµPSCђ.

PαP°CђPjP°PePsPeC-PSPµC,PëPeP°.

PhP±Bђ™ C”Pj CђPsP·PiPsPrC-P»Cf CђC,P°PSPsPIPëC,CH 0,15 P»/PePi, P№PsPiPs PeP»C-CђPµPSCђ Bђ” PiCђPëP±P»PëP·PSPs 0,1 P»/PiPsPr/PePi. PµPµCђC-PsPr PSP°PiC-PIPIPëPIPµPrPµPSPSCЦ Bђ” 1 PiPsPrPëPSP°. PђPµCђPµP· CђPiPµC†PëC,,C-C†PSCf P°PeC,PëPIP°C†C-Cђ PiP°PSC,PsPiCђP°P·PsP»Cf Cf PiP°CђC-C”C,P°P»CHPSPëC... PeP»C-C,PëPSP°C... PiPµCђC-PsPr PSP°PiC-PIPIPëPIPµPrPµPSPSCЦ PSPµ PePsCђPµP»CђC” P· C,CђPëPIP°P»C-CђC,CH PrC-C— (PiCђPëPiPSC-C†PµPSPSCЦ CђPµPeCђPµC†C-C— PePëCђP»PsC,Pë).

PαP°CђPjP°PePsPeC-PSPµC,PëPeP° PSPµ P·PjC-PSCђC”C,CHCђCЦ PiC-CђP»CЦ PsPrPSPsCђP°P·PsPIPsPiPs P°P±Ps P±P°PiP°C,PsCђP°P·PsPIPsPiPs PIPIPµPrPµPSPSCЦ. Pj PrC-P°PiP°P·PsPSC- PrPsP· PIC-Pr 10 PrPs 80 PjPi C,,P°CђPjP°PePsPeC-PSPµC,PëPeP° PiP°PSC,PsPiCђP°P·PsP»Cf P·P°P»PëC€P°C”C,CHCђCЦ P»C-PSC-P№PSPsCђ ЦIPIe PiC-CђP»CЦ PiPµCђPsCђP°P»CHPSPsPiPs PiCђPëP№PsPjCf, C,P°Pe C- PiC-CђP»CЦ PIPSCfC,CђC-C€PSCђPsPIPµPSPSPsPiPs PIPIPµPrPµPSPSCЦ.

P—PIBђ™ ЦIPI·CfPIP°PSPSCЦ PiP°PSC,PsPiCђP°P·PsP»Cf P· P±C-P»PeP°PjPë CђPëCђPsPIP°C,PePë PeCђPsPIC- CђC,P°PSPsPIPëC,CH 98 %.

PµCђPµPiP°CђP°C, PjPµC,P°P±PsP»C-P·CfC”C,CHCђCЦ Cf PiPµC†C-PSC†C-. P”PsP»PsPIPSPëPj C€P»CЦC...PsPj PIPëPIPµPrPµPSPSCЦ PjPµC,P°P±PsP»C-C,C-PI C” PSPëCђPePsPIPëP№ (PjP°P№P¶Pµ 80 %), P· C,,PµPeP°P»C-CIPIjPë PIPëPrC-P»CЦC”C,CHCђCЦ 20 %. P”PsP»PsPIPSPëPj PjPµC,P°P±PsP»C-C,PsPj ЦIPIe Cf CђPëCђPsPIP°C,C†C-, C,P°Pe C- PI CђPµC†C- C” PrPëCђPjPµC,PëP»PiP°PSC,PsPiCђP°P·PsP», P·PIBђ™ ЦIPI·P°PSPëP№ C-P· CђCfP»CHC,,P°C,PsPj. PµPµCђC-PsPr PSP°PiC-PIPIPëPIPµPrPµPSPSCЦ PiPsP»PsPIPSPsPiPs PjPµC,P°P±PsP»C-C,CfB (1,5 PiPsPrPëPSPë) PSPµ PSP°P±P°PiP°C,Ps PrPsPIC€PëP№, PSC-P¶ Cf PiP°PSC,PsPiCђP°P·PsP»Cf.

PhPeCђPµPjC- PiCђC¿PiPë PiP°C†C-C”PSC,C-PI.

PµPsPIC-P»CHPSC- PjPµC,P°P±PsP»C-P·P°C,PsCђPë. P’P»PëP·CHPePs 3 % C”PICђPsPiPµP№C†C-PI PjP°CђC,CH PSPëP·CHPeCf C,,CfPSPeC†C-PsPSP°P»CHPSCf P°PeC,PëPIPSC-CђC,CH C,,PµCђPjPµPSC,Cf CYP2C19; C—C... PSP°P·PëPIP°CђC,CH PiPsPIC-P»CHPSPëPjPë PjPµC,P°P±PsP»C-P·P°C,PsCђP°PjPë. P’ PsCђPiP°PSC-P·PjP°C... C,P°PePëC... PsCђC-P± PjPµC,P°P±PsP»C-P·Pj PiP°PSC,PsPiCђP°P·PsP»Cf, P№PjPsPIC-CђPSPs, PiPsP»PsPIPSPëPj C†PëPSPsPj PeP°C,P°P»C-P·CfC”C,CHCђCЦ C,,PµCђPjPµPSC,PsPj CYP3A4. PµC-CђP»CЦ PiCђPëP№PsPjCf PsPrPSC-C”C— PrPsP·Pë 40 PjPi PiP°PSC,PsPiCђP°P·PsP»Cf CђPµCђPµPrPSCЦ PiP»PsC%P°, PsP±PjPµP¶PµPSP° C,,P°CђPjP°PePsPeC-PSPµC,PëC†PSPsCђ PeCђPëPIPsCђ B«PePsPSC†PµPSC,CђP°C†C-CЦ PI PiP»P°P·PjC- Bђ” C†P°CђB», P±CfP»P° PiCђPëP±P»PëP·PSPs PI 6 CђP°P·C-PI P±C-P»CHC€PsCђ Cf PiPsPIC-P»CHPSPëC... PjPµC,P°P±PsP»C-P·P°C,PsCђC-PI, PSC-P¶ Cf PsCђC-P±, ЦIPIeC- PjP°CђC,CH C,,CfPSPeC†C-PsPSP°P»CHPSPs P°PeC,PëPIPSPëP№ C,,PµCђPjPµPSC, CYP2C19 (C€PIPëPrPeC- PjPµC,P°P±PsP»C-P·P°C,PsCђPë). PђPµCђPµPrPSCЦ PiC-PePsPIP° PePsPSC†PµPSC,CђP°C†C-CЦ PI PiP»P°P·PjC- P·CђPsCђP»P° PiCђPëP±P»PëP·PSPs PSP° 60 %. PiC- CђPµP·CfP»CHC,P°C,Pë

PSP_μ PIPiP»PëPIP°C₇C,CH PSP° PrPsP·C₇PIP°PSPSC₁₁ P_iP°PSC,PsP_iC₇P°P·PsP»C₇.

P_μPsC₇C₂C₆P_μPSPSC₁₁ C₂,C₂PSPeC₇C-C— PSPeC₇PsPe. P P_μPePsPjP_μPSPPrP°C₇C-PM₂ C%₀₀PsPrPs P·PSPëP₁₁P_μPSPSC₁₁ PrPsP·Pë P_iC₇Pë P_iC₇PëP·PSP°C₇P_μPSPSC- P_iP°PSC,PsP_iC₇P°P·PsP»C₇ P_iP°C₇C-C''PSC,P°Pj P·C- P·PSPëP₁₁P_μPSPsC₇ C₂,C₂PSPeC₇C-C''C₇ PSPeC₇PsPe (C₇ C,PsPjC₇ C₇PëC₇P»C- P_iP°C₇C-C''PSC,P°Pj PSP° PrC-P°P»C-P·C-) PSP_μPjP°C''. P₇P°Pe C₇P°PjPs, C₁₁Pe C- C₇ P·PrPsC₇PsPIPëC... PsC₇C-P±, P_iP_μC₇C-PsPr PSP°P_iC-PIPIPëPIP_μPrP_μPSPSC₁₁ P_iP°PSC,PsP_iC₇P°P·PsP»C₇ C₇ C₇PëC... P_iP°C₇C-C''PSC,C-PI PePsC₇PsC,PePëPM₂. P''C-P°P»C-P·C₇C₇C,CHC₇C₁₁ P»PëC₆P_μ PrC₇P₁₁P_μ PSP_μPIP_μP»PëPeC- PeC-P»CHPePsC₇C,C- P_iP°PSC,PsP_iC₇P°P·PsP»C₇. P₆P_μP·PIP°P₁₁P°C₇C₇Pë PSP° C,P_μ, C%₀₀Ps P_iP_μC₇C-PsPr PSP°P_iC-PIPIPëPIP_μPrP_μPSPSC₁₁ PiPsP»PsPIPSPsPiPs PjP_μC,P°P±PsP»C-C,C₇B PrP_μC%₀₀Ps P·P±C-P»CHC₆C₇C''C,CHC₇C₁₁ (2B₇''3 PiPsPrPëPSPë), PIC-PS C₆PIPëPrPePs PIPëPIPsPrPëC,CHC₇C₁₁, C,PsPjC₇ PSP_μ PSP°PePsP_iPëC₇C''C,CHC₇C₁₁.

P_μPsC₇C₂C₆P_μPSPSC₁₁ C₂,C₂PSPeC₇C-C— P_iP_μC₇C-PSPePë. P₇PsC₇P° C₇ P_iP°C₇C-C''PSC,C-PI C-P· C₇PëC₇PsP·PsPj P_iP_μC₇C-PSPePë (PeP»P°C₇ P₇ C,P° P' P·P° PeP»P°C₇PëC₂,C-PeP°C₇C-C''C₇ P₇P°PM₂P»PrP°) P_iP_μC₇C-PsPr PSP°P_iC-PIPIPëPIP_μPrP_μPSPSC₁₁ PrC-C₇C₇PsC— C₇P_μC₇PsPIPëPSPë P·P±C-P»CHC₆C₇C''C,CHC₇C₁₁ PrPs 7B₇''9 PiPsPrPëPS C- PIC-PrP_iPsPIC-PrPSPs PrPs C₇CHPsPiPs P·P±C-P»CHC₆C₇C''C,CHC₇C₁₁ P_iP»PsC%₀₀P° P_iC-Pr PeC₇PëPIPsC₇ B«PePsPSC₇P_μPSC,C₇P°C₇C-C₁₁ B₇'' C₇P°C₇B» (AUC), PjP°PeC₇PëPjP°P»CHPSP° PePsPSC₇P_μPSC,C₇P°C₇C-C₁₁ (C_{max}) P_iP°PSC,PsP_iC₇P°P·PsP»C₇ C₇ P_iP»P°P·PjC- PeC₇PsPIC- P·P±C-P»CHC₆C₇C''C,CHC₇C₁₁ P»PëC₆P_μ C₇ 1,5 C₇P°P·P°, P_iPsC₇C-PIPSC₁₁PSPs P·C- P·PrPsC₇PsPIPëPjPë P_iP°C₇C-C''PSC,P°PjPë.

P_μP°C₇C-C''PSC,Pë P»C-C,PSCHPsPiPs PIC-PeC₂. P₆P_μP·PSP°C₇PSP_μ P·P±C-P»CHC₆P_μPSPSC₁₁ AUC C- C_{max} C₇ P_iP°C₇C-C''PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeC₇ P_iPsC₇C-PIPSC₁₁PSPs P· P_iP°C₇C-C''PSC,P°PjPë PjPsP»PsPrC₆PsPiPs PIC-PeC₇ PSP_μ C'' PeP»C-PSC-C₇PSPs P·PSP°C₇C₇C%₀₀PëPj.

P''C-C,Pë. P_μC-C₇P»C₁₁ PsPrPSPsPeC₇P°C,PSPsPiPs PIPSC₇C,C₇C-C₆PSCHPsPIP_μPSPSPsPiPs PIPiP_μPrP_μPSPSC₁₁ P_iP°PSC,PsP_iC₇P°P·PsP»C₇ PI PrPsP·P°C... 0,8 P°P±Ps 1,6 PjPi/PePi PrC-C,C₁₁Pj PIC-PePsPj PIC-Pr 2 PrPs 16 C₇PsPeC-PI PSP_μ P±C₇P»Ps PIC-PrPjC-C₇P_μPSPs P·PSP°C₇PëPjPsPiPs P·PIB₇™ C₁₁P·PeC₇ PjC-P₁₁ PeP»C-C₇P_μPSC₇PsPj P_iP°PSC,PsP_iC₇P°P·PsP»C₇ PM₂ PIC-PePsPj P°P±Ps PjP°C₇PsC₇ C,C-P»P° P_iP°C₇C-C''PSC,P°. AUC C,P° PsP±B₇™ C''Pj C₇PsP·P_iPsPrC-P»C₇ PIC-PrP_iPsPIC-PrP°P»Pë PrP°PSPëPj, PsPrP_μC₇P₁₁P°PSPëPj P_iC-Pr C₇P°C₇ PrPsC₇P»C-PrP₁₁PSCH P·P° C₇C₇P°C₇C,C₇ PrPsC₇PsC₇P»PëC....

РЉР»С-РSC-С₇РSC- С...Р°С₇Р°РeС,Р_μС₇РëС₇С,РëРeРë.

P_μPsPeP°P·P°PSPSC₁₁.

Б₇'' P P_μC₂,P»CHPeC₇-P_μP·PsC₂,P°PiC-C,.

Б₇'' P'PëC₇P°P·PeP° C₆P»C₇PSPeP° C,P° PrPIP°PSP°PrC₇C₁₁C,PëP_iP°P»PsC— PePëC₆PePë.

Б₇'' P₇PëPSPPrC₇PsPj P—PsP»P»C-PSPiP_μC₇P° Б₇'' P·P»P»C-C₇PsPSP° C,P° C-PSC₆C- PiC-P_iP_μC₇C₇P_μPeC₇P_μC,PsC₇PSC- P_iP°C,PsP»PsPiC-C₇PSC-B C₇C,P°PSPë.

P_μC₇PsC,PëP_iPsPeP°P·P°PSPSC₁₁.

PrC-PrPIPëC%PµPSP° C†C†C,P»PëPIC-C†C,CH PrPs P°PeC,PëPIPSpSC— CḡPµC†PsPIPëPSPë, P°
C,P°PePsP¶ PrPs PīPsC...C-PrPSPëC... P±PµPSP·PëPjC-PrP°P·PsP»C†.

**P'P·P°C" PjPsPrC-Cḡ P· C-PSC€PëPjPë P»C-PeP°CḡC†CHPePëPjPë P·P°C†PsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C" PjPsPrC-PN.**

P" C-Cḡ PīP°PSC,PsPīCḡP°P·PsP»Cḡ PSP° P°P±C†PsCḡP±C†C-Cḡ C-PSC€PëC...
P»C-PeP°CḡC†CHPePëC... PīCḡPµPīP°CḡP°C,C-PI.

P>C-PeP°CḡC†CHPeC- P·P°C†PsP±Pë, P°P±C†PsCḡP±C†C-Cḡ CḡPePëC... P·P°P»PµP¶PëC,CH
PIC-Pr CḡPḡ. PjPSP°C†P»C-PrPsPe PīPsPIPSpSiPs C,P° PrPsPIPiPsC,CḡPëPIP°P»PsPiPs
C-PSPiC-P±C†PIP°PSPSCḡ C†PµPeCḡPµC†C-C— C†PsP»CḡPSPsC— PePëC†P»PsC,Pë
PīP°PSC,PsPīCḡP°P·PsP» PjPsP¶Pµ PIPiP»PëPIP°C,Pë PSP° P°P±C†PsCḡP±C†C-Cḡ
PīCḡPµPīP°CḡP°C,C-PI, PrP»Cḡ CḡPePëC... P·PSP°C†PµPSPSCḡ CḡPḡ C€P»C†PSPePsPIPsPiPs
C†PsPeC† C" PIP°P¶P»PëPIPëPj C,,P°PeC,PsCḡPsPj C—C... P±C-PsPrPsC†C,C†PīPSPsC†C,C-
(PSP°PīCḡPëPeP»P°Pr, PrPµCḡPePëC... PīCḡPsC,PëPīCḡPëP±PePsPIPëC...
PīCḡPµPīP°CḡP°C,C-PI, C,P°PePëC... CḡPe PePµC,PsPePsPSP°P·PsP», C-C,CḡP°PePsPSP°P·PsP»,
PīPsP·P°PePsPSP°P·PsP», P°P±Ps C-PSC€PëC... PīCḡPµPīP°CḡP°C,C-PI, C,P°PePëC... CḡPe
PµCḡP»PsC,PëPSC-P±).

P†PSPiC-P±C-C,PsCḡPë PīCḡPsC,PµP°P·Pë P'P†P>. PḡPµ CḡPµPePsPjPµPSPrC†C" C,CHC†Cḡ
C†C†PjC-C†PSPµ P·P°C†C,PsC†C†PIP°PSPSCḡ PīP°PSC,PsPīCḡP°P·PsP»C† P·
C-PSPiC-P±C-C,PsCḡP°PjPë PīCḡPsC,PµP°P·Pë P'P†P> (C,P°PePëPjPë CḡPe
P°C,P°P·P°PSP°PIC-Cḡ), P°P±C†PsCḡP±C†C-Cḡ CḡPePëC... P·P°P»PµP¶PëC,CH PIC-Pr
PIPS†C,CḡC-C€PSCḡPsC€P»C†PSPePsPIPsPiPs CḡPḡ, C†PµCḡPµP· C†C†C,C,C"PIPµ
P·PSPëP¶PµPSPSCḡ C—C... P±C-PsPrPsC†C,C†PīPSPsC†C,C- (PrPëPI. CḡPsP·PrC-P»
B«PḡC†PsP±P»PëPIPsC†C,C- P·P°C†C,PsC†C†PIP°PSPSCḡB»).B

PīPeC%Ps C†C†PjC-C†PSPsPiPs P·P°C†C,PsC†C†PIP°PSPSCḡ C-PSPiC-P±C-C,PsCḡC-PI
PīCḡPsC,PµP°P·Pë P'P†P> P· C-PSPiC-P±C-C,PsCḡP°PjPë PīCḡPsC,PsPSPSPsC— PīPsPjPīPë PSPµ
PjPsP¶PSP° C†PSPëPePSC†C,Pë, CḡPµPePsPjPµPSPrC†C" C,CHC†Cḡ CḡPµC,PµP»CHPSPëPN
PeP»C-PSC-C†PSPëPN PjPsPSC-C,PsCḡPëPSPi (PSP°PīCḡPëPeP»P°Pr, PIC-CḡC†C†PSPsPiPs
PSP°PIP°PSC,P°P¶PµPSPSCḡ). PḡPµ C†P»C-Pr PīPµCḡPµPIPëC%C†PIP°C,Pë PrPsP±PsPIC†
PrPsP·C† PīP°PSC,PsPīCḡP°P·PsP»C† 20 PjPi. PḡPsP¶Pµ PIPëPSPëPePSC†C,Pë
PSPµPsP±C...C-PrPSC-C†C,CH PePsCḡPëPīC†PIP°PSPSCḡ PrPsP·Pë C-PSPiC-P±C-C,PsCḡC-PI
PīCḡPsC,PµP°P·Pë P'P†P>.

PḡCḡPjP°CḡPëPSPsPIC- P°PSC,PëPePsP°PīCḡP»CḡPSC,Pë (C,,PµPSPiCḡPsPeCḡPjPsPS C-
PIP°CḡC,,P°CḡPëPS). PḡC†PjC-C†PSPµ P·P°C†C,PsC†C†PIP°PSPSCḡ PīP°PSC,PsPīCḡP°P·PsP»C†
P· PIP°CḡC,,P°CḡPëPSPsPj P°P±Ps C,,PµPSPiCḡPsPeC†PjPsPSPsPj PSPµ PIPiP»PëPIP°P»Ps PSP°
C,,P°CḡPjP°PePsPeC-PSPµC,PëPeC† PIP°CḡC,,P°CḡPëPSC†, C,,PµPSPiCḡPsPeC†PjPsPSC† P°P±Ps
PḡPḡP† (PjC-P¶PSP°CḡPsPrPSPëPN PSPsCḡPjP°P»C-P·PsPIP°PSPëPN C-PSPrPµPeC†).B
PḡPrPSP°Pe PīPsPIC-PrPsPjP»CḡP»PsC†CH PīCḡPs PīC-PrPIPëC%PµPSPSCḡ PḡPḡP† C,P°
PīPsPrPsPIP¶PµPSPSCḡ PīCḡPsC,CḡPsPjP±C-PSPsPIPsPiPs C†P°C†C† C† PīP°C†C-C"PSC,C-PI,
CḡPeC- C†C†PjC-C†PSPs P·P°C†C,PsC†PsPIC†PIP°P»Pë P†PµPµ C,P° PIP°CḡC,,P°CḡPëPS P°P±Ps
C,,PµPSPiCḡPsPeC†PjPsPS. PµC-PrPIPëC%PµPSPSCḡ PḡPḡP† C,P° PīPsPrPsPIP¶PµPSPSCḡ
PīCḡPsC,CḡPsPjP±C-PSPsPIPsPiPs C†P°C†C† PjPsP¶C†C,CH PīCḡPëP·PIPµC†C,Pë PrPs
CḡPsP·PIPëC,PeC† PīP°C,PsP»PsPiC-C†PSPsC— PeCḡPsPIPsC,PµC†C- C,P° PSP°PIC-C,CH
C†PjPµCḡC,C-. Pj CḡP°P·C- C,P°PePsPiPs C†C†PjC-C†PSPsPiPs P·P°C†C,PsC†C†PIP°PSPSCḡ
PSPµPsP±C...C-PrPSPëPN PjPsPSC-C,PsCḡPëPSPi PḡPḡP† C,P°

РiСҫPsC,СҫPsPjP±C-PSPPiPsPiPs C±P°CҫCҫ.

PhPμC,PsC,СҫPμPeCҫP°C,. PhPrPSPsC±P°CҫPSPμ P·P°CҫC,PsCҫCҫPIP°PSPSCҫ P†PμPμ
CҫP°P·PsPj P· PIPeCҫPsPePēPjPē PrPsP·P°PjPē PjPμC,PsC,СҫPμPeCҫP°C,Cҫ
(PSP°PіCҫPēPeP»P°Pr, 300 PjPi) PjPsPҫPμ PіC-PrPIPēC%оCҫPIP°C,Pē C,P°
PіPsPrPsPIPҫCҫPIP°C,Pē CҫC-PIPC- PjPμC,PsC,СҫPμPeCҫP°C,Cҫ C,P°/P°P±Ps P№PsPiPs
PjPμC,P°P±PsP»C-C,Cҫ PіC-PrCҫPsPjPμC,PsC,СҫPμPeCҫP°C,Cҫ Cҫ CҫPēCҫPsPIP°C,C†C-
PeCҫPsPIC-, C%оPs PjPsPҫPμ CҫPіCҫPēC±PēPSCҫC,Pē C,PsPeCҫPēC±PSC-CҫC,Сҫ.
PμP°C†C-C”PSC,P°Pj, CҫPeC- P·P°CҫC,PsCҫPsPICҫCҫC,Сҫ PIPēCҫPsPeC- PrPsP·Pē
PjPμC,PsC,СҫPμPeCҫP°C,Cҫ, PSP°PіCҫPēPeP»P°Pr C...PIPсCҫPēPj PSP° CҫP°Pe P°P±Ps
PіCҫPsCҫC-P°P·, CҫPμPePsPjPμPSPҫCҫC,СҫCҫCҫ C,PēPjC±P°CҫPsPiPs PіCҫPēPіPēPSPēC,Pē
P»C-PeCҫPIP°PSPSCҫ PіP°PSC,PsPіCҫP°P·PsP»PsPj.

P†PSCεC- PIP·P°C”PjPsPrC-C—. PμP°PSC,PsPіCҫP°P·PsP» P·PSP°C±PSPсCҫ PjC-CҫPsCҫ
PjPμC,P°P±PsP»C-P·CҫC”C,СҫCҫCҫ Cҫ PіPμC±C-PSC†C- C±PμCҫPμP· CҫPēCҫC,PμPjCҫ
C,,PμCҫPjPμPSC,C-PI C†PēC,PsC...CҫPsPjCҫ P 450. PhCҫPSPsPiSPēP№ CεP»CҫC...
PjPμC,P°P±PsP»C-P·PjCҫ вҫ” PrPμPjPμC,PēP»CҫPIP°PSPSCҫB P·P° PrPsPіPsPjPsPiPsCҫ
CYP2Pҫ19 C,P° C-PSCεPēC... PjPμC,P°P±PsP»C-C±PSPēC... CεP»CҫC...C-PI, Cҫ C,PsPjCҫ
C±PēCҫP»C- PsPePēCҫPSPμPSPSCҫ C,,PμCҫPjPμPSC,PsPj CYP3Pҫ4. P”PsCҫP»C-PrPҫPμPSPSCҫ
P· P»C-PeP°CҫCҫPePēPjPē P·P°CҫPsP±P°PjPē, CҫPeC- C,P°PePsPҫ
PjPμC,P°P±PsP»C-P·CҫCҫC,СҫCҫCҫ P·P° PrPsPіPsPjPsPiPsCҫ C†PēC... CεP»CҫC...C-PI,
C,P°PePēPjPē CҫPe PeP°CҫP±P°PjP°P·PμPіC-PS, PrC-P°P·PμPіP°Pj, PіP»C-P±PμPSPeP»P°PjC-Pr,
PSC-C,,PμPrPēPіC-PS, C,,PμPSPіCҫPsPeCҫPjPsPS, C,P° PіPμCҫPsCҫP°P»CҫPSPēPjPē
PePsPSC,CҫP°C†PμPіC,PēPIP°PjPē, CҫPeC- PjC-CҫC,CҫC,Сҫ P»PμPiPsPSPсCҫPіPμCҫC,CҫPμP»
C- PμC,PēPSC-P»PμCҫC,CҫP°PrC-PsP», PSPμ PIPēCҫPIPēP»Pē PeP»C-PSC-C±PSPs
P·PSP°C±CҫC%оPēC... PIP·P°C”PjPsPrC-P№.

PќPμ PjPsPҫPSP° PIPēPeP»CҫC±P°C,Pē PIP·P°C”PjPsPrC-Cҫ PіP°PSC,PsPіCҫP°P·PsP»Cҫ P·
C-PSCεPēPjPē PіCҫPμPіP°CҫP°C,P°PjPē, CҫPeC- PjPμC,P°P±PsP»C-P·CҫCҫC,СҫCҫCҫ
C±PμCҫPμP· C†Cҫ Pҫ C,,PμCҫPjPμPSC,PSCҫ CҫPēCҫC,PμPjCҫ.

P PμP·CҫP»CҫC,P°C,Pē PrPsCҫP»C-PrPҫPμPSCҫ C%оPsPrPs PjPsPҫP»PēPIPēC...
PIP·P°C”PjPsPrC-P№ PIPeP°P·CҫCҫC,Сҫ, C%оPs PіP°PSC,PsPіCҫP°P·PsP» PSPμ PIPіP»PēPIP°C”
PSP° PjPμC,P°P±PsP»C-P·Pj P°PeC,PēPIPSPēC... CҫPμC±PsPIPēPS, CҫPeC-
PjPμC,P°P±PsP»C-P·CҫCҫC,СҫCҫCҫ P·P° PrPsPіPsPjPsPiPsCҫ CYP1A2 (C,P°PePēC... CҫPe
PePsC,,PμC—PS, C,PμPsC,,C-P»C-PS), CYP2Pҫ9 (PSP°PіCҫPēPeP»P°Pr, PіC-CҫPsPeCҫPēPeP°Pj,
PrPēPeP»PsC,,PμPSP°Pe, PSP°PіCҫPsPeCҫPμPS), CYP2D6 (C,P°PePēC... CҫPe
PjPμC,PsPіCҫPsP»PsP»), CYP2P·1 (C,P°PePēC... CҫPe PμC,P°PSPsP»), PSPμ PIPіP»PēPIP°C” PSP°
Cҫ-PіP»C-PePsPіCҫPsC,PμC—PS, CҫPePēP№ P·P°P±PμP·PіPμC±CҫC” PICҫPjPsPeC,CҫPIP°PSPSCҫ
PrPēPіPsPeCҫPēPSCҫ. PќPμ PIPēCҫPIP»PμPSPs PIP·P°C”PjPsPrC-C— P· PsPrPSPsC±P°CҫPSPs
PіCҫPēP·PSP°C±PμPSPēPjPē P°PSC,P°C†PēPrP°PjPē.

PμCҫPē PIPēPIC±PμPSPSC- PIP·P°C”PjPsPrC-C— PіP°PSC,PsPіCҫP°P·PsP»Cҫ P·
PsPrPSPсC±P°CҫPSPs PіCҫPēP·PSP°C±PμPSPēPjPē PіPμPIPSPēPjPē P°PSC,PēP±C-PsC,PēPeP°PjPē
(PeP»P°CҫPēC,CҫPsPjC-C†PēPS, PjPμC,CҫPsPSC-PrP°P·PsP», P°PjPsPeCҫPēC†PēP»C-PS)
PeP»C-PSC-C±PSPs P·PSP°C±CҫC%оPēC... PIP·P°C”PjPsPrC-P№ PSPμ PIPēCҫPIP»PμPSPs.

P>C-PeP°CҫCҫCҫPeC- P·P°CҫPsP±Pē, C%оPs C-PSPіC-P±CзCҫC,Сҫ P°P±Ps
C-PSPҫCзPeCзCҫC,Сҫ CYP2C19. P†PSPіC-P±C-C,PsCҫPē CYP2C19, C,P°PeC- CҫPe
C,,P»CҫPiPsPeCҫP°PjC-PS, PjPsPҫCҫC,Сҫ P·P±C-P»CҫCεCҫPIP°C,Pē CҫPēCҫC,PμPjPSPēP№
PIPіP»PēPI PіP°PSC,PsPіCҫP°P·PsP»Cҫ. PҫP»C-Pr CҫPsP·PіP»CҫPSCҫC,Pē
PSPμPsP±C...C-PrPSC-CҫC,Сҫ P·PSPēPҫPμPSPSCҫ PrPsP·Pē PіCҫPμPіP°CҫP°C,Cҫ PrP»Cҫ

PIP°CTC-C" PSC, C-PI, CIIPeC- PsC, CTjPëPjCrCñC, CH PrPsPIPiPsC, CTjPëPIP°P»Cr
C, PµCTjP°PiC-CT PIP°PSC, PsPiCTjP°P·PsP»PsPj Cr PIPëCÍPsPePëC... PrPsP·P°C..., C, P° PrP»CII
PIP°CTC-C" PSC, C-PI C-P· PiPsCTjCrC€PµPSPSCII PjPë C,, CrPSPeCTC-C— PiPµC±C-PSPePë.
P†PSPrCrPeC, PsCTjPë C,, PµCTjPjPµPSC, C-PI, C°%Ps PIPiP»PëPIP°CTC, CH PSP° CYP2C19 C, P°
CYP3A4, C, P°PeC- CIIPe CTjPëC,, P°PjPiC-C†PëPS C, P° P·PIC-CTjPsP±C-PNë P·PIPëC±P°PNëPSPëPNë
(Hypericum perforatum), PjPsP¶CrC, CH P·PSPëP¶CrPIP°C, Pë PiP»P°P·PjPsPIC-
PePsPSC†PµPSC, CTjP°CTC-C— P†PµPµ, CIIPeC- PjPµC, P°P±PsP»C-P·CrCñC, CHCÍCII
C±PµCTjPµP· CTC- C,, PµCTjPjPµPSC, PSC- CÍPëCÍC, PµPjPë.

P'PIP»PëPI P»C-PeP°CTjCÍCHPePëC... P·P°CÍPsP±C-PI PSP° CTjPµP·C¿P»CHC, P°C, Pë
P»P°P±PsCTjP°C, PsCTjPSPëC... C, PµCÍC, C-PI. PµPsPIC-PrPsPjP»CII P»PsCÍCII PiCTjPs
C... PëP±PSPs PiPsP·PëC, PëPIPSC- CTjPµP·CrP»CHC, P°C, Pë PrPµCIIPePëC...
CÍPeCTjPëPSC-PSPIPsPIPëC... PrPsCÍP»C-PrP¶PµPSCñ CÍPµC±C- PSP° PSP°CIIPIPSC-CÍC, CH
C, PµC, CTjP°PiC-PrCTjPsPeP°PSP°P±C-PSPsP»Cr Cr PIP°CTC-C" PSC, C-PI, CIIPeC-
P·P°CÍC, PsCÍPsPICrCñC, CH PiP°PSC, PsPiCTjP°P·PsP». P" P»CII PiC-PrC, PIPµCTjPrP¶PµPSPSCII
PiPsP·PëC, PëPIPSPëC... CTjPµP·CrP»CHC, P°C, C-PI PiPsC, CTjC-P±PSPs CTjPsP·PiP»CII PSCrC, Pë
PjPsP¶P»PëPIC-CÍC, CH P·P°CÍC, PsCÍCrPIP°PSPSCII P°P»CHC, PµCTjPSP°C, PëPIPSPëC...
PiC-PrC, PIPµCTjPrP¶CrCñC±PëC... PjPµC, PsPrC-PI PrPsCÍP»C-PrP¶PµPSPSCII.

PhCÍPsP±P»PëPIPsCÍC, C- P·P°CÍC, PsCÍC¿PIP°PSPSCII.

P—P»PsCIIPeC-CÍPSC- PSPsPIPsC¿C, PIPsCTjPµPSPSCII C€P»C¿PSPeP°.
PŸPëPjPiC, PsPjP°C, PëC±PSP° PIC-PrPiPsPIC-PrCH PSP° P·P°CÍC, PsCÍCrPIP°PSPSCII
PIP°PSC, PsPiCTjP°P·PsP»Cr PjPsP¶Pµ PjP°CÍPeCrPIP°C, Pë CÍPëPjPiC, PsPjPë
P·P»PsCIIPeC-CÍPSPëC... PSPsPIPsCrC, PIPsCTjPµPSCñ C€P»CrPSPeP° C, P°
PIC-PrC, PµCTjPjC-PSPsPICrPIP°C, Pë C—C... PrC-P°PiPSPsCÍC, PëPeCr. PµCTjPë
PSP°CIIPIPSPsCÍC, C- C, CTjPëPIPsP¶PSPëC... CÍPëPjPiC, PsPjC-PI (PSP°PiCTjPëPeP»P°Pr,
CÍCrC, C, C" PIPsC— PIC, CTjP°C, Pë PjP°CÍPë C, C-P»P°, PiPµCTjC-PsPrPëC±PSPsPiPs
P±P»CTjPIP°PSPSCII, PrPëCÍC,, P°PiC-C—, P±P»CTjPIP°PSPSCII C-P· PeCTjPsPIBñ™ CT,
P°PSPµPjC-C—, PjPµP»PµPSPë), P° C, P°PePsP¶ PiCTjPë PiC-PrPsP·CTjC- P°P±Ps
PSP°CIIPIPSPsCÍC, C- PIPëCTjP°P·PePë C€P»CrPSPeP° PiPsC, CTjC-P±PSPs PIPëPeP»CTC±PëC, Pë
PSP°CIIPIPSC-CÍC, CH P·P»PsCIIPeC-CÍPSPsPiPs PiCTjPsC†PµCÍCr.

PIPeC°%Ps CÍPëPjPiC, PsPjPë P·P±PµCTjC-PiP°CTC, CHCÍCII PiCTjPë P°PrPµPePIP°C, PSPsPjCr
P»C-PeCrPIP°PSPSC-, PSPµPsP±C...C-PrPSPs PiCTjPsPIPµCÍC, Pë PrPsPrP°C, PePsPIPµ
PsP±CÍC, PµP¶PµPSPSCII.

PµPsCTjC¿C€PµPSPSCII C,, C¿PSPeCTC-PNë PiPµC±C-PSPePë. PJ PIP°CTC-C" PSC, C-PI P·
C, CII P¶PePëPjPë PiPsCTjCrC€PµPSPSCII PjPë C,, CrPSPeCTC-PNë PiPµC±C-PSPePë
PSPµPsP±C...C-PrPSPs CTjPµPiCrP»CIICTjPSPs PePsPSC, CTjPsP»CTjPIP°C, Pë CTjC-PIPµPSCñ
PiPµC±C-PSPePsPIPëC... C,, PµCTjPjPµPSC, C-PI. PJ CTjP°P·C- PiC-PrPIPëC°%PµPSPSCII
CTjC-PIPSCII PiPµC±C-PSPePsPIPëC... C,, PµCTjPjPµPSC, C-PI P»C-PeCrPIP°PSPSCII
PiCTjPµPiP°CTjP°C, PsPj PiPsC, CTjC-P±PSPs PiCTjPëPiPëPSPëC, Pë.

P†PSPiC-P±C-C, PsCTjPë PiCTjPsC, PµP°P·Pë P'P†P>. PkPµ CTjPµPePsPjPµPSPrCrC" C, CHCÍCII
CÍCrPjC-CÍPSPµ P·P°CÍC, PsCÍCrPIP°PSPSCII PiP°PSC, PsPiCTjP°P·PsP»Cr P·
C-PSPIc-P±C-C, PsCTjP°PjPë PiCTjPsC, PµP°P·Pë P'P†P> (C, P°PePëPjPë CIIPe
P°C, P°P·P°PSP°PIC-CTj), P°P±CÍPsCTjP±CTC-CII CIIPePëC... P·P°P»PµP¶PëC, CH PIC-Pr
PIPSCrC, CTjC-C€PSCñPsC€P»CrPSPePsPIPsPiPs CTjPá, C±PµCTjPµP· CÍCrC, C, C" PIPµ
P·PSPëP¶PµPSPSCII C—C... P±C-PsPrPsCÍC, CrPiPSPsCÍC, C- (PrPëPI. CTjPsP·PrC-P»

$PuPmuCTHPmuP \gg PsPjP\ddot{e} \text{ } PeC-C\acute{r}C, PsPe. P''PsPIPiPsC, C\grave{H}P\ddot{e}PIP^{\circ}P \gg P_{\mu} P \gg C-PeCrPIP^{\circ}PSPSC\grave{I}$
 $(P \pm C - P \gg CHC\acute{E}P_{\mu} 1 \text{ } C\grave{H}PsPeCr) PIP\ddot{e}C\acute{r}PsPeP\ddot{e}PjP\ddot{e} PrPsP \cdot P^{\circ}PjP\ddot{e} C-PSPiC-P \pm C-C, PsC\grave{H}C-PI$
 $PiC\grave{H}PsC, PsPSPSPsC - PiPsPjPiP\ddot{e} PrP_{\mu}C\%Ps P \cdot P \pm C - P \gg CHC\acute{E}C\acute{r}C'' \text{ } C\grave{H}P\ddot{e}P \cdot P\ddot{e}Pe$
 $PiP_{\mu}CTHPmuP \gg PsPjC\acute{r} C\acute{r}C, P_{\mu}PiPSP^{\circ}, P \cdot P^{\circ}PiB\grave{T}^{\text{TM}} C\grave{I}C\acute{r}C, C\grave{I} C, P^{\circ} C...C\grave{H}P_{\mu}P \pm C, P^{\circ},$
 $PiP_{\mu}CTHPmuPIP^{\circ}P\P PSPs \text{ } Cr P \gg C\grave{H}PrP_{\mu}PN_{\ddot{e}} P \gg C-C, PSCHPsPiPs PIC-PeCr P^{\circ}P \pm Ps PiC\grave{H}P\ddot{e}$
 $PSP^{\circ}C\grave{I}PIPSPsC\acute{r}C, C- C-PSC\acute{E}P\ddot{e}C... C,, P^{\circ}PeC, PsC\grave{H}C-PI C\grave{H}P\ddot{e}P \cdot P\ddot{e}PeCr. P - P^{\circ} PrP_{\mu}C\grave{I}PeP\ddot{e}PjP\ddot{e}$
 $PrP^{\circ}PSP\ddot{e}PjP\ddot{e}, P \cdot P^{\circ}C\acute{r}C, PsC\acute{r}C\acute{r}PIP^{\circ}PSPSC\grave{I} C-PSPiC-P \pm C-C, PsC\grave{H}C-PI PiC\grave{H}PsC, PsPSPSPsC -$
 $PiPsPjPiP\ddot{e} P \cdot P \pm C - P \gg CHC\acute{E}C\acute{r}C'' \text{ } P \cdot P^{\circ}PiP^{\circ}P \gg CHBPSP\ddot{e}PN_{\ddot{e}} C\grave{H}P\ddot{e}P \cdot P\ddot{e}Pe PiP_{\mu}CTHPmuP \gg PsPjC-PI PSP^{\circ}$
 $10B\grave{T}^{\text{TM}} 40 \%. P''P_{\mu}C\grave{I}PeC- P \cdot PSP\ddot{e}C... PiPsP\P C\acute{r}C, CH P \pm C\acute{r}C, P\ddot{e} PsP \pm C\acute{r}PiPsPIP \gg P_{\mu}PSC-$

C-PSC€PëPjPë C,,P°PeC,PsCḡP°PjPë CḡPëP·PëPeCf. PμP°C†C-C"ḡPSC,Pë P· CḡPëP·PëPePsPj
CḡPsP·PIPëC,PeCf PsCfC,PμPsPīPsCḡPsP·Cf PīPsPIPëPSPSC- PsC,CḡPëPjCfPIP°C,Pë
P»C-PeCfPIP°PSPSCḡ PIC-PrPīPsPIC-PrPSPs PrPs PrC-CḡC†PëC... PeP»C-PSC-C†PSPëC...
CḡPμPePsPjPμPSPPrP°C†C-PNë C,P° CfPīPsPḡPëPIP°C,Pë PrPsCfC,P°C,PSCḡ
PeC-P»CḡPeC-CfC,Cḡ PIC-C,P°PjC-PSCf D C,P° PeP°P»CḡC†C-Cḡ.

PḡCḡPḡPḡPeC- C€PeC-CḡPSC- PīPsP±C-C†PSC- CḡPμP°PeC†C-C—. PμPsPIC-PrPsPjP»CḡP»PsCfCḡ
PīCḡPs P°CfPsC†C-PNëPsPIP°PSC- C-P· P·P°CfC,PsCfCfPIP°PSPSCḡPj
PīP°PSC,PsPīCḡP°P·PsP»Cf C,CḡPḡPḡPeC- C€PeC-CḡPSC- PīPsP±C-C†PSC- CḡPμP°PeC†C-C— P·
PSPμPIC-PrPsPjPsCḡ C†P°CfC,PsC,PsCḡ PIPëPSPëPePSPμPSPSCḡ (PrPëPI. CḡPsP·PrC-P»
B«PμPsP±C-C†PSC- CḡPμP°PeC†C-C—B»), C%Ps PjPsPḡCfC,Cḡ P·P°PīCḡPsPḡCfPIP°C,Pë
PḡPëC,C,Cḡ P°P±Ps PīCḡPëP·PIPμCfC,Pë PrPs P»PμC,P°P»CḡPSPsPīPs PSP°CfP»C-PrPeCf,
C,P°PeC- CḡPe PjCfP»CḡC,PëC,,PsCḡPjPSP° PμCḡPëC,PμPjP°, CfPëPSPPrCḡPsPj
PḡC,C-PIPμPSCfP° Bḡ" P"ḡPḡPsPSCfPsPSP°, C,PsPeCfPëC†PSPëPNë
PμPīC-PrPμCḡPjP°P»CḡPSPëPNë PSPμPeCḡPsP»C-P· C,P° PjPμPrPëPeP°PjPμPSC,PsP·PSP°
CḡPμP°PeC†C-Cḡ P· PμPsP·PëPSPsC,,C-P»C-C"ḡCḡ C,P° CfPëCfC,PμPjPSPëPjPë
CfPëPjPīC,PsPjP°PjPë (DRESS-CfPëPSPPrCḡPsPj). PμP°C†C-C"ḡPSC,C-PI CfP»C-Pr
PīCḡPsC-PSC,,PsCḡPjCfPIP°C,Pë PīCḡPs PsP·PSP°PePë C,P° CfPëPjPīC,PsPjPë
PIPëC%PμP·P°P·PSP°C†PμPSPëC... C€PeC-CḡPSPëC... CḡPμP°PeC†C-PNë C- CḡPμC,PμP»CḡPSPs
CfPīPsCfC,PμCḡC-PiP°C,Pë P·P° C—C...PSC-Pj CfC,P°PSPsPj C%PsPrPs CḡPsP·PIPëC,PeCf
C,P°PePëC... CḡPμP°PeC†C-PNë.B PīPeC%Ps P·Bḡ™ CḡPIP»CḡCḡC,CḡCfCḡ PsP·PSP°PePë C,P°
CfPëPjPīC,PsPjPë, C%Ps PIPeP°P·CfCḡC,Cḡ PSP° C†C- CḡPμP°PeC†C-C—,
P·P°CfC,PsCfCfPIP°PSPSCḡ PīP°PSC,PsPīCḡP°P·PsP»Cf CfP»C-Pr PSPμPīP°PNëPSPs
PīCḡPëPīPëPSPëC,Pë C,P° CḡPsP·PīP»CḡPSCfC,Pë PjPsPḡP»PëPIC-CfC,Cḡ
P°P»CḡC,PμCḡPSP°C,PëPIPSPsPīPs P»C-PeCfPIP°PSPSCḡ.

PμC-PrPīPsCfC,CḡPëPNë C€PeC-CḡPSPëPNë C†PμCḡPIPsPSPëPNë PIPsPIC†P°Pe.
P—P°CfC,PsCfCfPIP°PSPSCḡ C-PSPiC-P±C-C,PsCḡC-PI PīCḡPsC,PsPSPSPsC— PīPsPjPīPë
PīPsPī'CḡP·CfCḡC,Cḡ C-P· PrCfPḡPμ CḡC-PrPePëPjPë PIPëPīP°PrPeP°PjPë CḡPsP·PIPëC,PeCf
PīC-PrPīPsCfC,CḡPsPīPs C€PeC-CḡPSPsPīPs C†PμCḡPIPsPSPsPīPs PIPsPIC†P°PeP°. PīPeC%Ps
PIPëPSPëPeP°C" CfCḡP°PḡPμPSPSCḡ, PsCfPsP±P»PëPIPs PSP° PrC-P»CḡPSPeP°C...,B C%Ps
P·P°P·PSP°CḡC,Cḡ PIPiP»PëPICf CfPsPSCḡC†PSPsPīPs CfPIC-C,P»P°, C- C†Pμ
CfCfPīCḡPsPīPsPrPḡCfC"ḡC,CḡCfCḡ P°CḡC,CḡP°P»PīC-C"ḡCḡ, PīP°C†C-C"ḡPSC,Cf
PSPμPsP±C...C-PrPSPs PSPμPīP°PNëPSPs P·PIPμCḡPSCfC,PëCfCḡ PrPs P»C-PeP°CḡCḡ,
CḡPePëPNë CḡPsP·PīP»CḡPSPμ PSPμPsP±C...C-PrPSC-CfC,Cḡ PīCḡPëPīPëPSPμPSPSCḡ
P·P°CfC,PsCfCfPIP°PSPSCḡ PīP°PSC,PsPīCḡP°P·PsP»Cf. P'PëPSPëPePSPμPSPSCḡ
PīC-PrPīPsCfC,CḡPsPīPs C€PeC-CḡPSPsPīPs C†PμCḡPIPsPSPsPīPs PIPsPIC†P°PeP° Cf
PīP°C†C-C"ḡPSC,C-PI PīC-Pr C†P°Cf PīPsPīPμCḡPμPrPSCḡPsC— C,PμCḡP°PīC-C—
C-PSPiC-P±C-C,PsCḡP°PjPë PīCḡPsC,PsPSPSPsC— PīPsPjPīPë PjPsPḡPμ PīC-PrPIPëC%PëC,Pë
CḡPëP·PëPe PNëPsPīPs CḡPsP·PIPëC,PeCf PīCḡPë P·P°CfC,PsCfCfPIP°PSPSC- C-PSC€PëC...
C-PSPiC-P±C-C,PsCḡC-PI PīCḡPsC,PsPSPSPsC— PīPsPjPīPë.

P'PīP»PëPI PSP° CḡPμP·CḡP»CḡC,P°C,Pë P»P°P±PsCḡP°C,PsCḡPSPëC...
PrPsCfP»C-PrPḡPμPSCḡ.

PμC-PrPIPëC%PμPSPëPNë CḡC-PIPμPSCḡ C...CḡPsPjPsPīCḡP°PSC-PSCf Pḡ (CgA) PjPsPḡPμ
PIPiP»PëPIP°C,Pë PSP° CḡPμP·CfP»CḡC,P°C,Pë PrPsCfP»C-PrPḡPμPSCḡ PīCḡPë
PrC-P°PīPSPsCfC,PëC†C- PSPμPNëCḡPsPμPSPPrPsPeCḡPëPSPSPëC... PīCfC...P»PëPS. P©PsP±
CfPSPëPePSCfC,Pë C,P°PePsPīPs PIPiP»PëPICf, P»C-PeCfPIP°PSPSCḡ PīCḡPμPīP°CḡP°C,PsPj
PμP°PSC,P°CfP°PS CfP»C-Pr C,PëPjC†P°CfPsPīPs PīCḡPëPīPëPSPëC,Pë PīCḡPëPSP°PNëPjPSC-
P·P° 5 PrPSC-PI PrPs PīCḡPsPīPμPrPμPSPSCḡ PsC†C-PSPePë CḡC-PIPSCḡ CgA (PrPëPI.
CḡPsP·PrC-P» B«PαP°CḡPjP°PePsPrPëPSP°PjC-PeP°B»). PīPeC%Ps CḡC-PIPSC- CgA C,P°

PIP°CÍC,CHPëPSCÍ PSPµ PíPsPIPµCHPSCÍP»PëCÍCÍ PI PrC-P°PíP°P·PsPS
PSPsCHPjP°P»CHPSPëC... P·PSP°C±PµPSCH PíC-CÍP»CÍ PíPsC±P°C,PePsPIPsPíPs
PIPëPjC-CHCHPIP°PSPSCÍ, CÍP»C-Pr PíCHPsPIPµCÍC,Pë PíPsPIC,PsCHPSC-
PIPëPjC-CHCHPIP°PSPSCÍ C±PµCHPµP· 14 PrPSC-PI PíC-CÍP»CÍ PIC-PrPjC-PSPë
P»C-PeCíPIP°PSPSCÍ C-PSPiC-P±C-C,PsCHP°PjPë PíCHPsC,PsPSPSPsC— PíPsPjPíPë.

*P—P°CÍC,PsCÍCáPIP°PSPSCÍ Cá PíPµCHC-PsPr PIP°PíC-C,PSPsCÍC,C- P°P±Ps
PíPsPrCáPIP°PSPSCÍ PíCHCáPrPrCH.*

*P'P°PíC-C,PSC-CÍC,CH. PáP°CÍPIPSC- PrP°PSC- C%PsPrPs P·P°CÍC,PsCÍCíPIP°PSPSCÍ
PíP°PSC,PsPíCHP°P·PsP»Cí PIP°PíC-C,PSPëPj P¶C-PSPeP°Pj (PíCHPëP±P»PëP·PSPs 300–1000
PíPsPIC-PrPsPjP»PµPSCH PíCHPs CHPµP·CíP»CHC,P°C,Pë PIP°PíC-C,PSPsCÍC,C-)
PIPeP°P·CíCHC,CH PSP° PIC-PrCÍCíC,PSC-CÍC,CH PµPjP±CHC-PsPSP°P»CHPSPsC— P°P±Ps
C,,PµC,Ps/PSPµPsPSP°C,P°P»CHPSPsC— C,PsPeCÍPëC±PSPsCÍC,C- PíCHPµPíP°CHP°C,Cí. PJ
C...PsPrC- PrPsCÍP»C-PrP¶PµPSCH PSP° C,PIP°CHPëPSP°C... CÍPíPsCÍC,PµCHC-PíP°P»P°CÍCÍ
CHPµPíCHPsPrCíPeC,PëPIPSP° C,PsPeCÍPëC±PSC-CÍC,CH. PíPe P·P°PíPsP±C-P¶PSPëPñ
P·P°C...C-Pr CÍP»C-Pr CíPSPëPeP°C,Pë P·P°CÍC,PsCÍCíPIP°PSPSCÍ PíP°PSC,PsPíCHP°P·PsP»Cí
PIP°PíC-C,PSPëPj P¶C-PSPeP°Pj.*

*P“PsPrCáPIP°PSPSCÍ PíCHCáPrPrCH. P,, PrP°PSC- C%PsPrPs PµPeCÍPeCHPµC†C-C—
PíP°PSC,PsPíCHP°P·PsP»Cí Cí PíCHCíPrPSPµ PjPsP»PsPePs. PáPµ PjPsP¶PSP°
PIPëPeP»CHC±P°C,Pë CHPëP·PëPe PrP»CÍ PSPsPIPsPSP°CHPsPrP¶PµPSPëC.../PSPµPjPsPIP»CÍC,,
P C-C€PµPSPSCÍ PíCHPs PíCHPëPíPëPSPµPSPSCÍ PíPsPrCíPIP°PSPSCÍ PíCHCíPrPrCH P°P±Ps
PíCHPëPíPëPSPµPSPSCÍ/CíC,CHPëPjP°PSPSCÍ PIC-Pr P»C-PeCíPIP°PSPSCÍ
PíCHPµPíP°CHP°C,PsPj PµP°PSC,P°CÍP°PS PíPsC,CHC-P±PSPs PíCHPëPñPjP°C,Pë P·
CíCHP°C...CíPIP°PSPSCÍPj PePsCHPëCÍC,C- PIC-Pr PíPsPrCíPIP°PSPSCÍ PíCHCíPrPrCH
PrP»CÍ PrPëC,PëPSPë C- PePsCHPëCÍC,C- PIC-Pr P»C-PeCíPIP°PSPSCÍ
PíP°PSC,PsPíCHP°P·PsP»PsPj PrP»CÍ P¶C-PSPePë.*

*PαPµCHC,PëP»CHPSC-CÍC,CH. PµP°PSC,PsPíCHP°P·PsP» PSPµ PíPsCHCíC€CíPIP°PI
C,,PµCHC,PëP»CHPSC-CÍC,CH Cí PrPsCÍP»C-PrP¶PµPSPSCÍC... PSP° C,PIP°CHPëPSP°C....*

*P—PrP°C,PSC-CÍC,CH PIPíP»PëPIP°C,Pë PSP° C€PIPëPrPeC-CÍC,CH CHPµP°PeC†C-C— PíCHPë
PePµCHCáPIP°PSPSC- P°PIC,PsC,CHP°PSCÍPíPsCHC,PsPj P°P±Ps C-PSC€PëPjPë
PjPµC...P°PSC-P·PjP°PjPë.*

*PµP°PSC,PsPíCHP°P·PsP» PSPµ PIPíP»PëPIP°C” P°P±Ps PjP°C” PrCíP¶Pµ PSPµP·PSP°C±PSPëPñ
PIPíP»PëPI PSP° C€PIPëPrPeC-CÍC,CH CHPµP°PeC†C-C— PíCHPë PePµCHCíPIP°PSPSC-
P°PIC,PsC,CHP°PSCÍPíPsCHC,PsPj P°P±Ps C-PSC€PëPjPë PjPµC...P°PSC-P·PjP°PjPë.*

*PáPµPsP±C...C-PrPSPs P±CHP°C,Pë PrPs CíPIP°PíPë PjPsP¶P»PëPIPëPñ CHPsP·PIPëC,PsPe
PíPsP±C-C±PSPëC... CHPµP°PeC†C-Pñ, C,P°PePëC... CÍPe P·P°PíP°PjPsCHPsC±PµPSPSCÍ C,P°
CHPsP·P»P°PrPë P·PsCHCí. PJ C,P°PePëC... PIPëPíP°PrPeP°C... PSPµ CÍP»C-Pr PePµCHCíPIP°C,Pë
P°PIC,PsC,CHP°PSCÍPíPsCHC,PsPj P°P±Ps PíCHP°C†CHPIP°C,Pë P· C-PSC€PëPjPë
PjPµC...P°PSC-P·PjP°PjPë.*

PŸPíPsCÍC-P± P·P°CÍC,PsCÍCáPIP°PSPSCÍ C,P° PrPsP·Pë.

РμCḡPμPīP°CḡP°C, P·P°CḡC,PsCḡPsPICḡCḡC,CH PrPsCḡPsCḡP»PēPj P·P°
PīCḡPēP·PSP°C‡PμPSPSCḡPj C,P° PīC-Pr P±PμP·PīPsCḡPμCḡPμPrPSC-Pj PSP°PīP»CḡPrPsPj
P»C-PeP°CḡCḡ.

P'PSCḡC,CḡC-CēPSCḡPsPīPμPSPSPμ P·P°CḡC,PsCḡCḡPīP°PSPSCḡ PīCḡPμPīP°CḡP°C,Cḡ
CḡPμPePsPjPμPSPPrCḡC",CHCḡCḡ C,C-P»CHPePē Cḡ CḡP°P·C- PSPμPjPsPḡP»PēPīPsCḡC,C-
PīPμCḡPsCḡP°P»CHPSPsPīPs P·P°CḡC,PsCḡCḡPīP°PSPSCḡ. P,, PrP°PSC- C%PsPrPs
C,CḡPēPīP°P»PsCḡC,C- PIPSCḡC,CḡC-CēPSCḡPsPīPμPSPSPsPīPs P»C-PeCḡPīP°PSPSCḡ PrPs 7
PrPSC-PI. PḡPsPjCḡ PīCḡPē PeP»C-PSC-C‡PSC-PNē PjPsPḡP»PēPīPsCḡC,C-
P·PrC-PNēCḡPSCḡC",CHCḡCḡ PīPμCḡPμC...C-Pr PIC-Pr
PIPSCḡC,CḡC-CēPSCḡPsPīPμPSPSPsPīPs PīPμPrPμPSPSCḡ PīCḡPμPīP°CḡP°C,Cḡ
PμP°PSC,P°CḡP°PS PrPs PīPμCḡPsCḡP°P»CHPSPsPīPs P·P°CḡC,PsCḡCḡPīP°PSPSCḡ
PīP°PSC,PsPīCḡP°P·PsP»Cḡ Cḡ PrPsP·C- 40 PjPi.

P PμC,,P»CḡPeCḡ-PμP·PsC,,P°PīC-C,, PIPēCḡP°P·PeP° PrPīP°PSP°PrC‡CḡC,PēPīP°P»PsC—
PePēCēPePē, PIPēCḡP°P·PeP° CēP»CḡPSPeP°.

P PμPePsPjPμPSPPrPsPīP°PSP° PrPsP·P° CḡC,P°PSPsPīPēC,CH 40 PjPi PīP°PSC,PsPīCḡP°P·PsP»Cḡ
(1 C,,P»P°PePsPS) PSP° PrPsP±Cḡ PIPSCḡC,CḡC-CēPSCḡPsPīPμPSPSPs.

P>C-PeCḡPīP°PSPSCḡ CḡPēPSPPrCḡPsPjCḡ P—PsP»P»C-PSPiPμCḡP° бḡ" P·P»P»C-CḡPsPSP° C,P°
C-PSCēPēC... PīC-PīPμCḡCḡPμPeCḡPμC,PsCḡPSPēC... PīP°C,PsP»PsPīC-C‡PSPēC...
CḡC,P°PSC-PI.

P"»Cḡ C,CḡPēPīP°P»PsPīPs P»C-PeCḡPīP°PSPSCḡ CḡPēPSPPrCḡPsPjCḡ P—PsP»P»C-PSPiPμCḡP°
бḡ" P·P»P»C-CḡPsPSP° C,P° C-PSCēPēC... PīC-PīPμCḡCḡPμPeCḡPμC,PsCḡPSPēC...
PīP°C,PsP»PsPīC-C‡PSPēC... CḡC,P°PSC-PI CḡPμPePsPjPμPSPPrPsPīP°PSP° PīPsC‡P°C,PePsPīP°
PrPsP·P° PīCḡPμPīP°CḡP°C,Cḡ CḡC,P°PSPsPīPēC,CH 80 PjPi PSP° PrPsP±Cḡ. Pj CḡP°P·C-
PSPμPsP±C...C-PrPSPsCḡC,C- PrPsP·Cḡ PjPsPḡPSP° C,PēC,CḡCḡPīP°C,Pē,
P·P±C-P»CHCēCḡCḡC‡Pē P°P±Ps P·PjPμPSCēCḡCḡC‡Pē, P·P°P»PμPḡPSPs PIC-Pr
PīPsPeP°P·PSPēPeC-PI CḡPμPeCḡPμCḡC-C— PePēCḡP»PsC,Pē Cḡ CēP»CḡPSPeCḡ. P"PsP·Pē, C%Ps
PīPμCḡPμPīPēC%CḡCḡC,CH 80 PjPi PSP° PrPsP±Cḡ, PīPsC,CḡC-P±PSPs CḡPsP·PrC-P»PēC,Pē
PSP° PrPīP° PīPμPrPμPSPSCḡ. B PḡPsPḡP»PēPīPμ C,PēPjC‡P°CḡPsPīPμ
P·P±C-P»CHCēPμPSPSCḡ PrPsP·Pē PīP°PSC,PsPīCḡP°P·PsP»Cḡ PīPsPSP°Pr 160 PjPi, P°P»Pμ
C,CḡPēPīP°P»C-CḡC,CH P·P°CḡC,PsCḡCḡPīP°PSPSCḡ PīPsPīPēPSPSP°
PsP±PjPμPḡCḡPīP°C,PēCḡCḡ C,C-P»CHPePē PīPμCḡC-PsPrPsPj, PSPμPsP±C...C-PrPSPēPj
PrP»Cḡ P°PrPμPePīP°C,PSPsPīPs PePsPSC,CḡPsP»Cḡ CḡPμPeCḡPμCḡC-C— PePēCḡP»PsC,Pē.

PīPeC%Ps PīPsC,CḡC-P±PSPμ CēPīPēPrPePμ P·PjPμPSCēPμPSPSCḡ PePēCḡP»PsC,PSPsCḡC,C-,
PrP»Cḡ P±C-P»CHCēPsCḡC,C- PīP°CḡC-C"PS,C-PI PrPsCḡPēC,CH PīPsC‡P°C,PePsPīPsC—
PrPsP·Pē 2×80 PjPi PrP»Cḡ PrPsCḡCḡPīPSPμPSPSCḡ P±P°PḡP°PSPsPīPs CḡC-PIPSCḡ
(< 10 PjP·PePI/PīPsPr) PīCḡPsC,CḡPīPsPj 1 PīPsPrPēPSPē.

PμC-PrPīPsC,PsPīPeP° PrPs P·P°CḡC,PsCḡCḡPīP°PSPSCḡ.

PμPsCḡPsCēPsPe CḡPsP·C‡PēPSCḡCḡC,CH Cḡ 10 PjP» 0,9 % CḡPsP·C‡PēPSCḡ C...P»PsCḡPēPrCḡ
PSP°C,CḡC-Cḡ, C%Ps PrPsPrP°C",CHCḡCḡ Cḡ C,,P»P°PePsPS. P PsP·C‡PēPS PjPsPḡPSP°
PīPμPrPēC,Pē P±PμP·PīPsCḡPμCḡPμPrPSCḡPs P°P±Ps PīC-CḡP»Cḡ P·PjC-CēCḡPīP°PSPSCḡ
P·C- 100 PjP» 0,9 % CḡPsP·C‡PēPSCḡ C...P»PsCḡPēPrCḡ PSP°C,CḡC-Cḡ P°P±Ps 5 %
CḡPsP·C‡PēPSCḡ PīP»CḡPePsP·Pē Cḡ PīP»P°CḡC,PēPePsPīPēC... C‡Pē CḡPeP»CḡPSPēC...
C,,P»P°PePsPSP°C....

$P\ddot{Y}P\ddot{e}PjP\ddot{i}C, P_sPjP\ddot{e} P\ddot{i}P_{\mu}C\ddot{H}P_{\mu}PrPsP \cdot CrPIP^{\circ}PSPSC\ddot{U} PSP_{\mu}PIC-PrPsPjC-.$ $P''PsP \cdot P\ddot{e} PrPs 240 PjPi$
 $PiC\ddot{H}P\ddot{e} PIPSCrC, C\ddot{H}C-C\ddot{e}PSC\ddot{H}PsPIP_{\mu}PSPSPsPjCr PIPiP_{\mu}PrP_{\mu}PSPSC- P\ddot{i}C\ddot{H}PsC, C\ddot{U}PiPsPj 2$
 $C...PIP\ddot{e}P \gg P\ddot{e}PS, PrPsP \pm C\ddot{H}P_{\mu} P\ddot{i}P_{\mu}C\ddot{H}P_{\mu}PSPsC\ddot{I}P\ddot{e}P \gg P\ddot{e}C\ddot{I}C\ddot{U}.$ $P\hbar C\ddot{I}PeC-P \gg C\ddot{H}PeP\ddot{e}$
 $P\ddot{i}P^{\circ}PSC, PsP\ddot{i}C\ddot{H}P^{\circ}P \cdot PsP \gg PuPeC\ddot{I}C, PuPSC\ddot{I}P\ddot{e}PIPSPs P \cdot P\ddot{i}B\ddot{H}^{\text{TM}} C\ddot{U}P \cdot CrC''C, C\ddot{H}C\ddot{I}C\ddot{U} P \cdot$

$P \pm C - P \gg PeP^\circ PjP\ddot{e}$, $PIC - PS \ PSp_\mu \ PSp^\circ P \gg P_\mu P \ P\ddot{e}C, CH \ PrPs \ P\ddot{e}C_\mu P \ P^\circ C_\mu P^\circ C, C - PI, C\%Ps$
 $P \gg P_\mu P \ PePs \ PIP\ddot{e}PIPs \ PrC_\mu C, CHC\ddot{e}C_\mu P \cdot P^\circ \ PrPs \ P\ddot{e}Ps \ PjPs \ PiPsC_\mu \ PrC - P^\circ P \gg C - P \cdot C\ddot{e}$.

$Pj \ C_\mu P^\circ C - P\ddot{e}P_\mu C_\mu PrPs \cdot C\ddot{e}PIP^\circ PSpSC_\mu P \cdot PsP \cdot PSp^\circ PeP^\circ PjP\ddot{e} \ C - PSC, PsPeC\ddot{e}P\ddot{e}PeP^\circ C\ddot{e}C -$
 $P \cdot P^\circ C\ddot{e}C, PsC\ddot{e}PsPIC\ddot{e}C_\mu C, CH \ C\ddot{e}P\ddot{e}PjP\ddot{e}C, PsPjP^\circ C, P\ddot{e}C\ddot{e}PSC\ddot{e} \ C, P^\circ \ PiC - PrC, C_\mu P\ddot{e}PjC\ddot{e}C\ddot{e}C\ddot{e}$
 $C, P_\mu C_\mu P^\circ PiC - C_\mu. P \ P_\mu PePs \ PjP_\mu PSpPrP^\circ C\ddot{e}C - P\% C\%Ps \ PrPs \ C\ddot{e}PiP_\mu C\ddot{e}P\ddot{e}C, C - C\ddot{e}PSPsC -$
 $C, P_\mu C_\mu P^\circ PiC - C - PSp_\mu PjP^\circ C$ ".

$P_\mu PsP \pm C - C\ddot{e}PSC - C_\mu P_\mu P^\circ PeC\ddot{e}C - C -$.

$P\ddot{e}PSP\ddot{e}PePSP_\mu PSpSC_\mu \ PiPsP \pm C - C\ddot{e}PSP\ddot{e}C... \ C_\mu P_\mu P^\circ PeC\ddot{e}C - P\% PjPsP \ P_\mu$
 $PsC\ddot{e}C - PeC\ddot{e}PIP^\circ C, P\ddot{e}C\ddot{e}CH \ C\ddot{e} \ P \pm P \gg P\ddot{e}P \cdot CHPePs \ 5\% \ P\ddot{e}P^\circ C\ddot{e}C - C''PSC, C - PI.$
 $P\acute{e}P^\circ P\% C\ddot{e}P^\circ C\ddot{e}C, C - C\acute{e}P^\circ \ PiPsP \pm C - C\ddot{e}PSP^\circ \ C_\mu P_\mu P^\circ PeC\ddot{e}C - C_\mu \ B\ddot{e} \ C, C_\mu PsPjP \pm PsC, P \gg P_\mu P \pm C - C, \ C\ddot{e}$
 $PjC - C\ddot{e}C\ddot{e}C - PIP_\mu PrP_\mu PSpSC_\mu. P''C - P^\circ C_\mu C_\mu C - PiPsP \gg PsPIPSP\ddot{e}P\% P \pm C - P \gg CH$
 $PIP\ddot{e}PSP\ddot{e}PeP^\circ P \gg P\ddot{e} \ C\ddot{e} \ P \pm P \gg P\ddot{e}P \cdot CHPePs \ 1\% \ P\ddot{e}P^\circ C\ddot{e}C - C''PSC, C - PI.$

$P\acute{e}P_\mu P \pm P^\circ P \ P^\circ PSC - P_\mu C, P_\mu PeC, P\ddot{e} \ P \cdot P^\circ \ C\ddot{e}P^\circ C\ddot{e}C, PsC, PsC_\mu \ PIP\ddot{e}PSP\ddot{e}PePSP_\mu PSpSC_\mu$
 $PeP \gg P^\circ C\ddot{e}P\ddot{e}C, C - PeC\ddot{e}C_\mu C, CH \ P \cdot P^\circ \ C, P^\circ PeP\ddot{e}PjP\ddot{e} \ PeP^\circ C, P_\mu PiPsC_\mu C - C_\mu PjP\ddot{e}: PrC\ddot{e}P \ P_\mu$
 $C\ddot{e}P^\circ C\ddot{e}C, Ps (\geq 1/10), C\ddot{e}P^\circ C\ddot{e}C, Ps (\geq 1/100 \ C - < 1/10), PSp_\mu C\ddot{e}P^\circ C\ddot{e}C, Ps (\geq 1/1000 \ C - < 1/100),$
 $C_\mu C - PrPePs (\geq 1/10000 \ C - < 1/1000), PrC\ddot{e}P \ P_\mu \ C_\mu C - PrPePs (< 1/10000), PSp_\mu PIC - PrPsPjPs$
 $(C\ddot{e}P^\circ C\ddot{e}C, PsC, P^\circ \ PSp_\mu \ PIP\ddot{e}P \cdot PSp^\circ C\ddot{e}P_\mu PSp^\circ \ P \cdot P^\circ \ PSp^\circ C_\mu PIPSP\ddot{e}PjP\ddot{e} \ PrP^\circ PSp\ddot{e}PjP\ddot{e}).$

$P''P \gg C_\mu \ PIC\ddot{e}C - C... \ PiPsP \pm C - C\ddot{e}PSP\ddot{e}C... \ C_\mu P_\mu P^\circ PeC\ddot{e}C - P\% \ P\ddot{e}C_\mu Ps \ C_\mu PeC -$
 $P\ddot{e}PsPIC - PrPsPjP \gg C_\mu P \gg PsC\ddot{e}CH \ PiC - Pr \ C\ddot{e}P^\circ C\ddot{e} \ PiPsC\ddot{e}C, PjP^\circ C_\mu PeP_\mu C, P\ddot{e}PSPiPsPIPsPiPs$
 $P\ddot{e}P_\mu C_\mu C - PsPrC\ddot{e}, PSp_\mu PjPsP \ P \gg P\ddot{e}PIPs \ PIP\ddot{e}P \cdot PSp^\circ C\ddot{e}P\ddot{e}C, P\ddot{e} \ C\ddot{e}P^\circ C\ddot{e}C, PsC, C\ddot{e}, C, PsPjC\ddot{e} \ PIPsPSP\ddot{e}$
 $P \cdot P^\circ P \cdot PSp^\circ C\ddot{e}P^\circ C_\mu C, CHC\ddot{e}C_\mu P \cdot C\ddot{e}P^\circ C\ddot{e}C, PsC, PsC_\mu \ B \ PSp_\mu PIC - PrPsPjPsB$ ".

$P' \ PjP_\mu P \ P^\circ C... \ PePsP \ PSpPsC - PeP^\circ C, P_\mu PiPsC_\mu C - C\ddot{e}P^\circ C\ddot{e}C, PsC, P\ddot{e} \ PiPsP \pm C - C\ddot{e}PSC -$
 $C_\mu P_\mu P^\circ PeC\ddot{e}C - C - P \cdot P^\circ P \cdot PSp^\circ C\ddot{e}P_\mu PSC - PI \ PiPsC_\mu C_\mu PrPeC\ddot{e} \ P \cdot PjP_\mu PSC\acute{e}P_\mu PSpSC_\mu$
 $C\ddot{e}P_\mu C_\mu P\% PsP \cdot PSpSC\ddot{e}C, C -$.

$P - P \pm PsPeC\acute{e} \ PeC_\mu PsPIC - C, P^\circ \ P \gg C - PjC, P^\circ C, P\ddot{e}C\ddot{e}PSPsC - C\ddot{e}P\ddot{e}C\ddot{e}C, P_\mu PjP\ddot{e}.$

$P \ C - PrPePs: P^\circ PiC_\mu P^\circ PSC\ddot{e}P \gg PsC\ddot{e}P\ddot{e}C, PsP.$

$P''C\ddot{e}P \ P_\mu \ C_\mu C - PrPePs: P \gg P_\mu P\% PePsPiP_\mu PSC - C_\mu, C, C_\mu PsPjP \pm PsC\ddot{e}P\ddot{e}C, PsPiP_\mu PSC - C_\mu,$
 $P\ddot{e}P^\circ PSC\ddot{e}P\ddot{e}C, PsPiP_\mu PSC - C_\mu.$

$P - P \pm PsPeC\acute{e} \ C - PjC\acute{e}PSPSPsC - C\ddot{e}P\ddot{e}C\ddot{e}C, P_\mu PjP\ddot{e}.$

$P \ C - PrPePs: C_\mu P_\mu P^\circ PeC\ddot{e}C - C - PiC - P\ddot{e}P_\mu C_\mu C\ddot{e}C\ddot{e}C, P \gg P\ddot{e}PIPsC\ddot{e}C, C - (PIPeP \gg C_\mu C\ddot{e}P^\circ C_\mu C\ddot{e}P\ddot{e}$
 $P^\circ PSp^\circ C, C - P \gg P^\circ PeC, P\ddot{e}C\ddot{e}PSC - C_\mu P_\mu P^\circ PeC\ddot{e}C - C, P^\circ PSp^\circ C, C - P \gg P^\circ PeC, P\ddot{e}C\ddot{e}PSP\ddot{e}P\% C\acute{e}PsPe).$

$P_\mu P_\mu C, P^\circ P \pm PsP \gg C - P \cdot Pj \ C, P^\circ \ C_\mu PsP \cdot P \gg P^\circ PrP\ddot{e} \ PsP \pm PjC - PSC\acute{e} \ C_\mu P_\mu C\ddot{e}PsPIP\ddot{e}Ps.$

$P \ C - PrPePs: PiC - P\ddot{e}P_\mu C_\mu P \gg C - PiC - PrP_\mu PjC - C_\mu C - PiC - PrPIP\ddot{e}C\% P_\mu PSpSC_\mu \ C_\mu C - PIPSC_\mu$
 $P \gg C - PiC - PrC - PI \ (C, C_\mu P\ddot{e}PiP \gg C - C\ddot{e}P_\mu C_\mu P\ddot{e}PrP\ddot{e}, C...PsP \gg P_\mu C\ddot{e}C, P\ddot{e}C_\mu PsP), P \cdot PjC - PSp\ddot{e} \ PjP^\circ C\ddot{e}P\ddot{e}$
 $C, C - P \gg P^\circ.$

$P\acute{e}P_\mu PIC - PrPsPjPs: PiC - P\ddot{e}PsPSP^\circ C, C_\mu C - C''PjC - C_\mu, PiC - P\ddot{e}PsPjP^\circ PiPSC - C''PjC - C_\mu \ (PrP\ddot{e}PI.$
 $C_\mu PsP \cdot PrC - P \gg B \ P\ddot{e}C\ddot{e}PsP \pm P \gg P\ddot{e}PIPsC\ddot{e}C, C - P \cdot P^\circ C\ddot{e}C, PsC\ddot{e}C\ddot{e}PIP^\circ PSpSC_\mu B$ »),

PiC-PiPsPeP°P»CHC†C-C"PjC-Cl¹, PiC-PiPsPeP°P»C-C"PjC-Cl¹.

PuClPëC...C-C#PSC- CjPsP·P»P°PrPë.

PkPμC†P°ClC,Ps: CjPsP·P»P°PrPë ClPSCr.

P C-PrPePs: PrPμPiCjPμClC-Cl (PI C,PsPjCr C†PëClP»C- P·P°PiPsClC,CjPμPSPSCl).

P"CrP¶Pμ CjC-PrPePs: PrPμP·PsCjC-C"PSC,P°C†C-Cl (PI C,PsPjCr C†PëClP»C- P·P°PiPsClC,CjPμPSPSCl).

PkPμPIC-PrPsPjPs: PiP°P»CHC†PëPSP°C†C-Cl, ClPïP»CrC,P°PSC-ClC,CH
ClPIC-PrPsPjPsClC,C- (PsClPsP±P»PëPIPs Cr PiP°C†C-C"PSC,C-PI P·C-
ClC...PëP»CHPSC-ClC,CH PrPs C,P°PePëC... CjPsP·P»P°PrC-PI, P° C,P°PePsP¶
P·P°PiPsClC,CjPμPSPSCl C†PëC... ClPëPjPiC,PsPjC-PI Cr CjP°P·C- C—C...
PiPsPiPμCjPμPrPSCHPsPiPs C-ClPSCrPIP°PSPSCl).B

P— P±PsPeCž PSPμCjPIPsPIPsC— ClPëClC,PμPjPë.

PkPμC†P°ClC,Ps: PiPsP»PsPIPSPëPN P±C-P»CH, P·P°PiP°PjPsCjPsC†PμPSPSCl.

P C-PrPePs: CjPsP·P»P°PrPë ClPjP°PeCr.

PkPμPIC-PrPsPjPs: PiP°CjPμClC,PμP·C-Cl.

P— P±PsPeCž PsCjPiP°PSC-PI P·PsCjCž.

P C-PrPePs: PiPsCjCrC€PμPSPSCl P·PsCjCr/ P·P°C,CrPjP°PSPμPSPSCl P·PsCjCr.

P— P±PsPeCž C,CjP°PIPSPIPs C,CjP°PeC,Cž.

PSP°ClC,Ps: PiPsP»C-PiPë P· C,,CrPSPrP°P»CHPSPëC... P·P°P»PsP· (PrPsP±CjPsClPeC-ClPSC-).

PkPμC†P°ClC,Ps: PrC-P°CjPμCl, PSCrPrPsC,P°, P±P»CHPIP°PSPSCl, PjPμC,PμPsCjPëP·Pj,
P·P°PiPsCj, ClCrC...C-ClC,CH Cr CjPsC,C-, P°P±PrPsPjC-PSP°P»CHPSPëPN P±C-P»CH C-
PrPëClPePsPjC,,PsCjC,.

PkPμPIC-PrPsPjPs: PjC-PeCjPsClPePsPiC-C†PSPëPN PePsP»C-C,.

P— P±PsPeCž PiPμPiP°C,PsP±C-P»C-P°CjPSPsC— ClPëClC,PμPjPë.

PkPμC†P°ClC,Ps: PiC-PrPIPëC%PμPSPSCl CjC-PIPSCl PiPμC†C-PSPePsPIPëC...
C,,PμCjPjPμPSC,C-PI (C,CjP°PSClP°PjC-PSP°P·, PiP°PjPjP°-
PiP»CHC,P°PjC-P»C,CjP°PSClC,,PμCjP°P·Pë).

P C-PrPePs: PiC-PrPIPëC%PμPSPSCl CjC-PIPSCl P±C-P»C-CjCrP±C-PSCr.

PkPμPIC-PrPsPjPs: CrCjP°P¶PμPSPSCl PiPμPiP°C,PsC†PëC,C-PI, P¶PsPIC,ClPSPëC†Cl,
PiPμPiP°C,PsC†PμP»CHP»ClCjPSP° PSPμPrPsClC,P°C,PSC-ClC,CH.

P— P±PsPeCž C€PeC-CjPë C,P° PiC-PrC€PeC-CjPSPëC... C,PeP°PSPëPS.

PkPμC†P°ClC,Ps: C€PeC-CjPSC- PIPëClPëPiPë, PμPeP·P°PSC,PμPjP°, ClPIPμCjP±C-P¶.

P C-PrPePs: PeCḡPsPİPëPIBḡ™ CḶPSPeP°, P°PSPiC-PsPSPμPICḡPsC,PëC‡PSPëPNḡ
PSP°P±CḡCḶPe.

PḶPμPIC-PrPsPjPs: CḶPëPSPrCḡPsPj PḶC,C-PIPμPSCḶP° – P°PḶPsPSCḶPsPSP°, CḶPëPSPrCḡPsPj
P>P°PNḡC°P»P»P° (C,PsPeCḶPëC‡PSPëPNḡ PμPİC-PrPμCḡPjP°P»CHḶPSPëPNḡ PSPμPeCḡPsP»C-P°),
CḡPμP°PeC‡C-CḶ PSP° P»C-PeP°CḡCḶCHḶPePëPNḡ P·P°CḶC-P± P· PμPsP·PëPSPsC,,C-P»C-C°Cḡ
C,P° CḶPëCḶC,PμPjPSPëPjPë CḶPëPjPİC,PsPjP°PjPë (DRESS), PjCḶP»CHḶC,PëC,,PsCḡPjPSP°
PμCḡPëC,PμPjP°, C,,PsC,PsC‡CḶC,P»PëPIC-CḶC,CHḶ, PİC-PrPiPsCḶC,CḡPëPNḡ C€PeC-CḡPSPëPNḡ
C‡PμCḡPIPsPSPëPNḡ PİPsPIC‡P°Pe (PrPëPI. CḡPsP·PrC-P» B«PḶCḶPsP±P»PëPIPsCḶC,C-
P·P°CḶC,PsCḶCḶPİP°PSPSCḶB»).

*P— P±PsPeCḶ PeC-CḶC,PePsPIPs-PjBḡ™ CḶP·PsPIPsC— CḶPëCḶC,PμPjPë C,P°
CḶPİPsP»CḶC‡PSPsC— C,PeP°PSPëPSPë.*

PḶPμC‡P°CḶC,Ps: PİPμCḡPμP»PsPjPë CḶC,PμPiPSP°, P·P°PİBḡ™ CḶCḶC,PeP°, C...CḡPμP±C,P°
(PrPëPI. CḡPsP·PrC-P» B«PḶCḶPsP±P»PëPIPsCḶC,C- P·P°CḶC,PsCḶCḶPİP°PSPSCḶB»).

P C-PrPePs: P°CḡC,CḡP°P»PiC-CḶ, PjC-P°P»PiC-CḶ.

PḶPμPIC-PrPsPjPs: CḶPİP°P·Pj Pj'CḶP·C-PI².

P— P±PsPeCḶ PSPëCḡPsPe C,P° CḶPμC‡PsPIPëPrC-P»CHḶPSPsC—B CḶPëCḶC,PμPjPë.

PḶPμPIC-PrPsPjPs: C,CḶP±CḶP»PsC-PSC,PμCḡCḶC,PëC‡C-P°P»CHḶPSPëPNḡ PSPμC,,CḡPëC, (P·
PjPsPḶP»PëPIPëPj CḡPsP·PIPëC,PePsPj PSPëCḡPePsPIPsC— PSPμPrPsCḶC,P°C,PSPsCḶC,C-).

*P— P±PsPeCḶ CḡPμPiCḡPsPrCḶPeC,PëPIPsPSPsC— CḶPëCḶC,PμPjPëB C,P° PjPsP»PsC‡PSPëC...
P·P°P»PsP·.*

P C-PrPePs: PİC-PSPμPePsPjP°CḶC,C-CḶ.

P—P°PiP°P»CHḶPSC- CḡPsP·P»P°PrPë.

PḶP°CḶC,Ps: C,CḡPsPjP±PsC,,P»PμP±C-C, CḶ PjC-CḶC‡C- PİPIPμPrPμPSPSCḶ.

PḶPμC‡P°CḶC,Ps: P°CḶC,PμPSC-CḶ, PİC-PrPIPëC%PμPSP° PIC,PsPjP»CḡPIP°PSC-CḶC,CHḶ,
PSPμP·PrCḶPḶP°PSPSCḶ.

P C-PrPePs: PİC-PrPIPëC%PμPSPSCḶ C,PμPjPİPμCḡP°C,CḶCḡPë C,C-P»P°,
PİPμCḡPëC,,PμCḡPëC‡PSC- PSP°P±CḡCḶPePë.

¹ P°C-PİPsPeP°P»CHḶC‡C-C°PjC-CḶ C,P°/P°P±Ps PİC-PİPsPeP°P»C-C°PjC-CḶ PjPsPḶCḶC,CHḶ P±CḶC,Pë
PİPsPIBḡ™ CḶP·P°PSC- P· PİPëPSPëPePSPμPSPSCḶPj PİC-PİPsPjP°PiPSC-C°PjC-C— (PrPëPI. CḡPsP·PrC-P»
B«PḶCḶPsP±P»PëPIPsCḶC,C- P·P°CḶC,PsCḶCḶPİP°PSPSCḶB»).

² PḶPİP°P·Pj Pj'CḶP·C-PI CḶPe PSP°CḶP»C-PrPsPe PİPsCḡCḶC€PμPSPSCḶ P±P°P»P°PSCḶCḶ
PμP»PμPeC,CḡPsP»C-C,C-PI.

PḶPμCḡPjC-PS PİCḡPëPrP°C,PSPsCḶC,C-. 2 CḡPsPePë.

PJPjPsPIPë P·P±PμCȚC-PiP°PSPSCȚ.

P—P±PμCȚC-PiP°C,Pë PïCȚPë C,PμPjPïPμCȚP°C,CrCȚC- PSPμ PIPëC‰Pμ 25 B°PŸ PI
PsCȚPëPiC-PSP°P»CḤPSC-PṆ CrPïP°PePsPIC†C-.

P—P±PμCȚC-PiP°C,Pë Cr PSPμPrPsC†C,CrPïPSPsPjCr PrP»CȚ PrC-C,PμPṆ PjC-C†C†C-.

PJPïP°PePsPIPeP°.

PμCȚPμPïP°CȚP°C, PïPsPjC-C‰P°CȚC,CḤ Cr C,,P»P°PePsPS C-P· P±PμP·P±P°CȚPIPSPsPiPs
C†PeP»P°, P· C†C-CȚPsCȚ PiCrPjPsPIPsCȚ PïCȚPsP±PePsCȚ, PsP±C,PëC†PSC†C,PsCȚ
P°P»CḤPjC-PSC-C”Pj, P·P°PeCȚPëC,PëPṆ C‡PμCȚPIPsPSPëPj C,,P»C-PïPsPj.

1 C,,P»P°PePsPS P· PïCȚPμPïP°CȚP°C,PsPj Cr PeP°CȚC,PsPSPSC-PṆ PePsCȚPsP±C†C-.

PљP°C,PμPiPsCȚC-CȚ PIC-PrPïCrC†PeCr. P—P° CȚPμC†PμPïC,PsPj.

P’PëCȚPsP±PSPëPe.

PŸP°PS PαP°CȚPjP°C†CḤCȚC,PëPeP°P» P†PSPPrP°C†C,CȚC-P· P>C,Pr.

**PњC-C†C†PμP·PSP°C...PsPrP¶PμPSPSCȚ PIPëCȚPsP±PSPëPeP° C,P° PṆPsPiPs
P°PrCȚPμC†P° PjC-C†C†CȚ PïCȚPsPIP°PrP¶PμPSPSCȚ PrC-CȚP»CḤPSPsC†C,C-.**

P’P°CȚPsPrP° P†P°PṆPIPμPṆ, P†P°P»PsP», P”CrPrP¶P°CȚP°C,, 389350, P†PSPPrC-CȚ