

C,P° PsPrPSCr P¶PsPIC,Cr PjḄḤ™ CḂPeCr P¶PμP»P°C,PëPSPsPICr PeP°PīCfCrP»Cr P·
PjP°CfP»CḂPSPëCfC,PsCḤ P¶PsPIC,CrPIP°C,PsCḤ CḤC-PrPëPSPsCḤ.

PḂP°CḤPjP°PePsC,PμCḤP°PīPμPIC,PëCḂPSP° PiCḤCrPīP°. P—P°CfPsP±Pë, C%Ps
P·P°CfC,PsCfPsPICrCḤC,CH PīCḤPë PrPsP±CḤPsCḂPeC-CfPSC-PNë PiC-PīPμCḤPīP»P°P·C-C—
PīPμCḤPμPrPjC-C...CrCḤPsPIPsC— P·P°P»PsP·Pë. PhPSC,P°PiPsPSC-CfC, α1-
P°PrCḤPμPSPsCḤPμC†PμPīC,PsCḤC-PI. PḤPsPr PhPḡPḤ G04C Ph52.

PḂP°CḤPjP°PePsP»PsPiC-CḂPSC- PIP»P°CfC,PëPIPsCfC,C-.

PḂP°CḤPjP°PePsPrPëPSP°PjC-PeP°.

P"CrC,P°C,,PsCḤCf C" PePsPjP±C-PSP°C†C-C"Ḥ PrPIPsC... P»C-PeP°CḤCfCHPePëC...
P·P°CfPsP±C-PI: PrCrC,P°CfC,PμCḤPëPrCr, PīPsPrPIC-PNëPSPsPiPs
C-PSPiC-P±C-C,PsCḤP° 5α-CḤPμPrCrPeC,P°P·Pë (5 PhP P†), C- C,P°PjCfCrP»PsP·PëPSCr
PiC-PrCḤPsC...P»PsCḤPëPrCr, P°PSC,P°PiPsPSC-CfC,P°
P°PrCḤPμPSPsCḤPμC†PμPīC,PsCḤC-PI α_{1p}. C- α_{1d}. P|C- P»C-PeP°CḤCfCHPeC-
P·P°CfPsP±Pë PjP°CḤC,CH PIP·P°C" PjPsPrPsPīPsPIPSCḤPIP°P»CHPSPëPNë
PjPμC...P°PSC-P·Pj PrC-C—, P·P°PIPrCḂPePë CḂPePsPjCr PIC-PrP±CrPIP°C"C,CHCfCḂ
C€PIPëPrPePμ PīPsCfP»P°P±P»PμPSPSCḂ CfPμCḂPsPIPëPrC-P»PμPSPSCḂ,
P·PSPëP¶CfC"C,CHCfCḂ CḤPëP·PëPe PiPsCfC,CḤPsC— P·P°C,CḤPëPjPePë CfPμCḂC-
(P"P—Pḡ) C,P° P·PjPμPSC€CfC"C,CHCfCḂ C-PjPsPIC-CḤPSC-CfC,CH
PSPμPsP±C...C-PrPSPsCfC,C- PīCḤPsPIPμPrPμPSPSCḂ C...C-CḤCrCḤPiC-CḂPSPsC—
PsPīPμCḤP°C†C-C— P· PīCḤPëPIPsPrCr PrPsP±CḤPsCḂPeC-CfPSPsC—
PiC-PīPμCḤPīP»P°P·C-C— PīPμCḤPμPrPjC-C...CrCḤPsPIPsC— P·P°P»PsP·Pë.

PkPμ PsCḂC-PeCrC"C,CHCfCḂ, C%Ps C,,P°CḤPjP°PePsPrPëPSP°PjC-CḂPSC-
PμC,,PμPeC,Pë C,,C-PeCfPsPIP°PSPsC— PrPsP·PsPIP°PSPsC— PePsPjP±C-PSP°C†C-C—
PrCrC,P°CfC,PμCḤPëPrCr C,P° C,P°PjCfCrP»PsP·PëPSCr
PIC-PrCḤC-P·PSCḂC,PëPjCrC,CHCfCḂ PIC-Pr C,PëC..., C%Ps PsC,CḤPëPjP°PSC-
PīCḤPë PsPrPSPsCḂP°CfPSPsPjCr P·P°CfC,PsCfCrPIP°PSPSC- PrCrC,P°CfC,PμCḤPëPrCr
C,P° C,P°PjCfCrP»PsP·PëPSCr CḂPe PsPeCḤPμPjPëC... PePsPjPīPsPSPμPSC,C-PI.

P"CḂC,P°CfC,PμCḤPëPr

P"CrC,P°CfC,PμCḤPëPr PīCḤPëPiPSC-CḂCrC" P°PeC,PëPIPSC-CfC,CH CḂPe 1-PiPs,
C,P°Pe C- 2-PiPs C,PëPīCr C-P·PsC,,PμCḤPjPμPSC,C-PI 5-α-CḤPμPrCrPeC,P°P·Pë, CḂPeC-
PIC-PrPīPsPIC-PrP°CḤC,CH P·P° PīPμCḤPμC,PIPsCḤPμPSPSCḂ
C,PμCfC,PsCfC,PμCḤPsPSCr PSP° PrPëPiC-PrCḤPsC,PμCfC,PsCfC,PμCḤPsPS (P"P"Pḡ).
P"P"Pḡ C" P°PSPrCḤPsPiPμPSPsPj, CḂPePëPNë PSP°CfP°PjPīPμCḤPμPr
PIC-PrPīPsPIC-PrP°C" P·P° CḤC-CfC, PīPμCḤPμPrPjC-C...CrCḤPsPIPsC— P·P°P»PsP·Pë
C- CḤPsP·PIPëC,PsPe PrPsP±CḤPsCḂPeC-CfPSPsC— PiC-PīPμCḤPīP»P°P·C-C—
PīPμCḤPμPrPjC-C...CrCḤPsPIPsC— P·P°P»PsP·Pë. PḡP°PjCfCrP»PsP·PëPS
PīCḤPëPiPSC-CḂCrC" P°PeC,PëPIPSC-CfC,CH P°PrCḤPμPSPsCḤPμC†PμPīC,PsCḤC-PI α_{1p}.
C- α_{1d} Cr CfC,CḤPsPjP°P»CHPSC-PNë PiP»P°PrPeC-PNë PjCrCfPeCrP»P°C,CrCḤC-

$P_{\mu}C-C\Gamma P \gg C\downarrow \text{Pi}P_{\mu}C\overline{H}PsC\overline{H}P^{\circ}P \gg CH\overline{H}PSPsPiPs \cdot P^{\circ}C\Gamma C, PsC\Gamma C\Gamma PIP^{\circ}PSPSC\downarrow$
 $PsPrPSPsC\overline{H}P^{\circ}P \cdot PsPIPSC - PrPsP \cdot P\ddot{e} 0,5 \text{ PjPi} PrC\Gamma C, P^{\circ}C\Gamma C, P_{\mu}C\overline{H}P\ddot{e}PrC\Gamma C \nabla P^{\circ}C\Gamma$
 $PrPsC\Gamma C\downarrow \text{Pi}PSP_{\mu}PSPSC\downarrow P\overline{N}_{\circ}PsPiPs \text{ PjP}^{\circ}PeC\Gamma P\ddot{e}PjP^{\circ}P \gg CH\overline{H}PSPsC -$
 $PePsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-C - PI C\Gamma P\ddot{e}C\overline{H}PsPIP^{\circ}C, C\downarrow C- PeC\overline{H}PsPIC- C\Gamma C, P^{\circ}PSPsPIP\ddot{e}PI 1$
 $\text{в}\overline{H}'' 3 \text{ PiPsPrP}\ddot{e}PSP\ddot{e}. P\overline{H}P\pm C\Gamma PsP \gg C\overline{H}C, PSP^{\circ} P\pm C-PsPrPsC\Gamma C, C\Gamma PiPSC-C\Gamma C, CH$
 $C\Gamma C, P^{\circ}PSPsPIP\ddot{e}P \gg P^{\circ} \text{Pi}C\overline{H}P\ddot{e}P\pm P \gg P\ddot{e}P \cdot PSPs 60 \%. P_{\mu}C\overline{H}P\ddot{e}P\overline{N}_{\circ}PsPj C - P\overline{H}C- PSP_{\mu}$
 $PIP\ddot{e}P \gg P\ddot{e}PIP^{\circ}PI PSP^{\circ} P\pm C-PsPrPsC\Gamma C, C\Gamma PiPSC-C\Gamma C, CH PrC\Gamma C, P^{\circ}C\Gamma C, P_{\mu}C\overline{H}P\ddot{e}PrC\Gamma.$

$P\ddot{y}P^{\circ}PjC\Gamma C\Gamma P \gg PsP \cdot P\ddot{e}PS$

$P\ddot{y}P^{\circ}PjC\Gamma C\Gamma P \gg PsP \cdot P\ddot{e}PS PIC\Gamma PjPsPeC, C\Gamma C''C, CHC\Gamma C\downarrow P \cdot PeP\ddot{e}C\overline{H}P_{\mu}C\downarrow PSP\ddot{e}PeP^{\circ} C- C''$
 $PjP^{\circ}P\overline{N}_{\circ}P\overline{H}P_{\mu} \text{ PiPsPIPSC}-C\Gamma C, CH P\pm C-PsPrPsC\Gamma C, C\Gamma PiPSP\ddot{e}Pj. P\ddot{I}Pe C\overline{H}PIP\ddot{e}PrPeC-C\Gamma C, CH,$
 $C, P^{\circ}Pe C- C\Gamma C, C\Gamma PiC-PSCH PIC\Gamma PjPsPeC, C\Gamma PIP^{\circ}PSPSC\downarrow C, P^{\circ}PjC\Gamma C\Gamma P \gg PsP \cdot P\ddot{e}PSC\Gamma$
 $P \cdot PSP\ddot{e}P\overline{H}C\overline{H}C, CHC\Gamma C\downarrow, C\downarrow PeC\%Ps P\overline{N}_{\circ}PsPiPs \text{ Pi}C\overline{H}P\ddot{e}P\overline{N}_{\circ}PjP^{\circ}C\overline{H}C, CH$
 $\text{Pi}C\overline{H}PsC, C\downarrow \text{PiPsPj} 30 C...PIP\ddot{e}P \gg P\ddot{e}PS \text{ Pi}C-C\Gamma P \gg C\downarrow C - PrP\ddot{e}.$
 $P C-PIPSPsPjC-C\overline{H}PSC-C\Gamma C, CH \text{ PiPsPi} \gg P\ddot{e}PSP^{\circ}PSPSC\downarrow$
 $P \cdot P^{\circ}P\pm P_{\mu}P \cdot \text{Pi}P_{\mu}C\downarrow C\Gamma C''C, CHC\Gamma C\downarrow \text{Pi}C\overline{H}P\ddot{e}P\overline{N}_{\circ}PsPjPsPj P \gg C-PeP^{\circ}C\overline{H}C\Gamma CHPePsPiPs$
 $P \cdot P^{\circ}C\Gamma PsP\pm C\Gamma P''C\Gamma C, P^{\circ}C,, PsC\overline{H}C\Gamma PI PsPrP\ddot{e}PS C- C, PsP\overline{N}_{\circ} P\overline{H}P_{\mu} C\downarrow P^{\circ}C\Gamma PrPsP\pm P\ddot{e}$
 $\text{Pi}C-C\Gamma P \gg C\downarrow PIP\overline{H}P\ddot{e}PIP^{\circ}PSPSC\downarrow PsPrPSPsC, P\ddot{e}PiPSPsC - C - P\overline{H}C-.$
 $P\overline{H}PsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-C\downarrow C, P^{\circ}PjC\Gamma C\Gamma P \gg PsP \cdot P\ddot{e}PSC\Gamma PI \text{ Pi}P \gg P^{\circ}P \cdot PjC- PeC\overline{H}PsPIC- C''$
 $\text{Pi}C\overline{H}PsPiPsC\overline{H}C\downarrow C-P\overline{N}_{\circ}PSPsCH PrPsP \cdot C-.$

$P_{\mu}C-C\Gamma P \gg C\downarrow \text{Pi}C\overline{H}P\ddot{e}P\overline{N}_{\circ}PsPjC\Gamma PsPrPSPsC\overline{H}P^{\circ}P \cdot PsPIPSC - PrPsP \cdot P\ddot{e}$
 $C, P^{\circ}PjC\Gamma C\Gamma P \gg PsP \cdot P\ddot{e}PSC\Gamma \text{ Pi}C-C\Gamma P \gg C\downarrow C - PrP\ddot{e} C_{\max} PrPsC\Gamma C\downarrow \text{Pi}P^{\circ}C''C, CHC\Gamma C\downarrow$
 $\text{Pi}C\overline{H}P\ddot{e}P\pm P \gg P\ddot{e}P \cdot PSPs C\downarrow P_{\mu}C\overline{H}P_{\mu}P \cdot 6 \text{ PiPsPrP}\ddot{e}PS. P C-PIPSPsPIP^{\circ}P\overline{H}PSP^{\circ}$
 $PePsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-C\downarrow PrPsC\Gamma C\downarrow \text{Pi}P^{\circ}C''C, CHC\Gamma C\downarrow PSP^{\circ} 5-P\overline{N}_{\circ} PrP_{\mu}PSC\overline{H}$
 $P\pm P^{\circ}PiP^{\circ}C, PsC\overline{H}P^{\circ}P \cdot PsPIPSPiPs PIPIP_{\mu}PrP_{\mu}PSPSC\downarrow. P\ddot{y}P_{\mu}C\overline{H}P_{\mu}PrPSC\downarrow$
 $C\overline{H}C-PIPSPsPIP^{\circ}P\overline{H}PSP^{\circ} PePsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-C\downarrow C\Gamma \text{ Pi}P^{\circ}C\downarrow C-C''PSC, C-PI C''$
 $\text{Pi}C\overline{H}P\ddot{e}P\pm P \gg P\ddot{e}P \cdot PSPs PSP^{\circ} PrPIC- C, C\overline{H}P_{\mu}C, P\ddot{e}PSP\ddot{e} PIP\ddot{e}C\%PsCH P \cdot P^{\circ}$
 $PePsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-CH \text{ Pi}C-C\Gamma P \gg C\downarrow PsPrPSPsC\overline{H}P^{\circ}P \cdot PsPIPSPiPs$
 $PIPIP_{\mu}PrP_{\mu}PSPSC\downarrow C, P^{\circ}PjC\Gamma C\Gamma P \gg PsP \cdot P\ddot{e}PSC\Gamma. P\Gamma PsC\downarrow P^{\circ} C\downarrow P_{\mu} C\downarrow PIP\ddot{e}C\%P_{\mu}$
 $C\Gamma PiPsC\Gamma C, P_{\mu}C\overline{H}C-PiP^{\circ}P \gg PsC\Gamma C\downarrow C\Gamma \text{ Pi}P^{\circ}C\downarrow C-C''PSC, C-PI P \gg C-C, PSCH\overline{H}PsPiPs PIC-PeC\Gamma,$
 $C, PsPiPs P\overline{H} C\Gamma P^{\circ}PjPsPiPs C\overline{H}P_{\mu}P \cdot C\Gamma P \gg CHC, P^{\circ}C, C\Gamma PjPsP\overline{H}PSP^{\circ} PsC\downarrow C-PeC\Gamma PIP^{\circ}C, P\ddot{e} C- C\Gamma$
 $PjPsP \gg PsPrC\overline{H}P\ddot{e}C... \text{Pi}P^{\circ}C\downarrow C-C''PSC, C-PI.$

$P PsP \cdot PiPsPrC-P \gg$

$P''C\Gamma C, P^{\circ}C\Gamma C, P_{\mu}C\overline{H}P\ddot{e}Pr$

$P''C\Gamma C, P^{\circ}C\Gamma C, P_{\mu}C\overline{H}P\ddot{e}Pr PjP^{\circ}C'' PIP_{\mu}P \gg P\ddot{e}PeP\ddot{e}P\overline{N}_{\circ} PsP\pm \text{в}\overline{H}^{\text{TM}} C''Pj C\overline{H}PsP \cdot \text{Pi}PsPrC-P \gg C\Gamma$
 $(300\text{в}\overline{H}''500 P \gg) C- PIP\ddot{e}C\Gamma PsPeC\Gamma P \cdot P\text{и}\overline{H}^{\text{TM}} C\downarrow P \cdot C\Gamma PIP^{\circ}PSC-C\Gamma C, CH P \cdot P\pm C-P \gg PeP^{\circ}PjP\ddot{e}$
 $\text{Pi}P \gg P^{\circ}P \cdot PjP\ddot{e} PeC\overline{H}PsPIC- (>99,5 \%). P_{\mu}C-C\Gamma P \gg C\downarrow C\%PsPrP_{\mu}PSPSPsPiPs$
 $PIPIP_{\mu}PrP_{\mu}PSPSC\downarrow PrPsP \cdot PePsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-C\downarrow PrC\Gamma C, P^{\circ}C\Gamma C, P_{\mu}C\overline{H}P\ddot{e}PrC\Gamma PI$
 $C\Gamma P\ddot{e}C\overline{H}PsPIP^{\circ}C, C\downarrow C- PeC\overline{H}PsPIC- PrPsC\Gamma C\downarrow \text{Pi}P^{\circ}C'' 65 \% C\overline{H}C-PIPSPsPIP^{\circ}P\overline{H}PSPsC -$
 $PePsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-C - C\downarrow P_{\mu}C\overline{H}P_{\mu}P \cdot 1 \text{ PjC}-C\Gamma C\downarrow C\downarrow CH C- \text{Pi}C\overline{H}P\ddot{e}P\pm P \gg P\ddot{e}P \cdot PSPs 90$
 $\% \text{в}\overline{H}'' C\downarrow P_{\mu}C\overline{H}P_{\mu}P \cdot 3 \text{ PjC}-C\Gamma C\downarrow C\downarrow C-.$

$P C-PIPSPsPIP^{\circ}P\overline{H}PSP^{\circ} PePsPSC\downarrow P_{\mu}PSC, C\overline{H}P^{\circ}C\downarrow C-C\downarrow PI C\Gamma P\ddot{e}C\overline{H}PsPIP^{\circ}C, C\downarrow C-$

PeC₇PsPIC- (C_{ss}), C₁PeP° C₁C, P°PSPsPIPëC, CH₃ P_iC₇PëP±P»PëP·PSPs 40 PSPi/PjP», PrPsC₁C₁PiP°C''C, CH₃C₁C₁ C₁P₁C₇P₁P· 6 PjC-C₁C₁C₁C-C-PI PIPiP₁PrP₁PSPSC₁ PrPsP·Pë 0,5 PjPi PSP° PrPsP±C₁. P₁P₁C₇P₁PrPSC'' P·PSP°C₁P₁PSPSC₁ PSP°PrC...PsPrP₁P₁PSPSC₁ PrC₁C, P°C₁C, P₁C₇PëPrC₁ P·C- C₁PëC₇PsPIP°C, PePë PeC₇PsPIC- C₁ C₁C-PjB₇TM C₁PSC₁ C₇C-PrPëPSC₁ C₁C, P°PSPsPIPëC, CH₃ 11,5 %.

P₁P°PjC₁C₁PrP»PsP·PëPS

Pj C₁PsP»PsPIC-PeC-PI C, P°PjC₁C₁PrP»PsP·PëPS P·PiB₇TM C₁P·C₁C''C, CH₃C₁C₁ P· P±C-P»PeP°PjPë PiP»P°P·PjPë PeC₇PsPIC- P_iC₇PëP±P»PëP·PSPs PSP° 99 %. PhP±B₇TM C''Pj C₇PsP·PiPsPrC-P»C₁ C'' PSP₁PIP₁P»PëPePëPj (PiC₇PëP±P»PëP·PSPs 0,21/PePi).

PhP₁C, P°P±PsP»C-P·Pj

P''C₁C, P°C₁C, P₁C₇PëPr

P''C₁C, P°C₁C, P₁C₇PëPr P°PeC, PëPIPSPs PjP₁C, P°P±PsP»C-P·C₁C''C, CH₃C₁C₁ *in vivo*. P' C₁PjPsPIP°C... *in vitro* PrC₁C, P°C₁C, P₁C₇PëPr PjP₁C, P°P±PsP»C-P·C₁C''C, CH₃C₁C₁ C₁PëC, PsC...C₇PsPjPsPj P450 3A4 C- 3A5, C₁C, PIPsC₇C₇C₇C₁Pë C, C₇Pë PjPsPSPsPiC-PrC₇PsPeC₁PëP»CH₃PsPIP°PSPëC... PjP₁C, P°P±PsP»C-C, Pë C- PsPrPëPS PrPëPiC-PrC₇PsPecPëP»CH₃PsPIP°PSPëPN₆ PjP₁C, P°P±PsP»C-C,.

P₁C-C₁P»C₁ PiP₁C₇PsC₇P°P»CH₃PSPsPiPs P·P°C₁C, PsC₁C₁PIP°PSPSC₁ PrC₁C, P°C₁C, P₁C₇PëPrC₁ PI PrPsP·C- 0,5 PjPi PSP° PrPsP±C₁ PrPs PrPsC₁C₁PiPSP₁PSPSC₁ C₇C-PIPSPsPIP°P₁PSPsC— PePsPSC₁P₁PSC, C₇P°C₁C-C— 1,0B₇''15,4 % (C₁P₁C₇P₁PrPSC'' P·PSP°C₁P₁PSPSC₁ B₇'' 5,4 %) PIPiP₁PrP₁PSPsC— PrPsP·Pë PrC₁C, P°C₁C, P₁C₇PëPrC₁ PIPëPrC-P»C₁C''C, CH₃C₁C₁ C₁ PeP°P» C₁ PSP₁P·PjC-PSP₁PSPsPjC₁ PIPëPiP»C₁PrC-. P P₁C€C, P° PIPëPrC-P»C₁C''C, CH₃C₁C₁ C₁ PeP°P» C₁ PIPëPiP»C₁PrC- 4 PsC₁PSPsPIPSPëC... PjP₁C, P°P±PsP»C-C, C-PI, C%₀Ps PjC-C₁C, C₁C, CH₃ 39 %, 21 %, 7 % C- 7 % PePsP₁PSPsC— P· C₇P₁C₁PsPIPëPS, PiPsPiB₇TM C₁P·P°PSPëC... C-P· P»C-PeP°C₇C₁CH₃PePëPj P·P°C₁PsP±PsPj, C- 6 PrC₇C₁PiPsC₇C₁PrPSPëC... PjP₁C, P°P±PsP»C-C, C-PI (PjP₁PSC€P₁ 5 % PePsP₁P₁PS). Pj C₁P₁C₁C- P»C₇PrPëPSPë PIPëC₁PIP»P₁PSPs P»PëC€P₁ PSP₁P·PSP°C₁PSC- PeC-P»CH₃PePsC₁C, C- PSP₁P·PjC-PSP₁PSPsPiPs PrC₁C, P°C₁C, P₁C₇PëPrC₁ (PjP₁PSC€P₁ PSC-P₁ 0,1 % PrPsP·Pë).

P₁P°PjC₁C₁PrP»PsP·PëPS

P·PSP°PSC, C-PsPjP₁C₇PSP° P±C-PsPePsPSPIP₁C₇C₁C-C₁ P· C, P°PjC₁C₁PrP»PsP·PëPSC₁ PiC-PrC₇PsC...P»PsC₇PëPrC₁ [R(-) C-P·PsPjP₁C₇] C₁ S() C-P·PsPjP₁C₇ C₁ P»C₇PrPëPSPë PSP₁ PIC-PrP±C₁PIP°C''C, CH₃C₁C₁. P₁P°PjC₁C₁PrP»PsP·PëPSC₁ PiC-PrC₇PsC...P»PsC₇PëPr P°PeC, PëPIPSPs PjP₁C, P°P±PsP»C-P·C₁C''C, CH₃C₁C₁ C,, P₁C₇PjP₁PSC, P°PjPë C₁PëC, PsC...C₇PsPjC₁ P450 C₁ PiP₁C₁C-PSC₁C-, C- PjP₁PSC€P₁ 10 % PrPsP·Pë PIPëPrC-P»C₁C''C, CH₃C₁C₁ C₁ C₁P₁C₁C₁ PI PSP₁P·PjC-PSP₁PSPsPjC₁ PIPëPiP»C₁PrC-. PhP»P₁ C,, P°C₇PjP°PePsPeC-PSP₁C, PëC₁PSPëPN₆ PiC₇PsC,, C-P»CH₃ PjP₁C, P°P±PsP»C-C, C-PI C₁ P»C₇PrPëPSPë PSP₁ PIC₁C, P°PSPsPIP»P₁PSPëPN₆. P P₁P·C₁P»CH₃, P°C, Pë PrPsC₁P»C-PrP₁P₁PSCH₃ *in vitro* PIPeP°P·C₁CH₃, CH₃ PSP° C, P₁, C%₀Ps PrPs PjP₁C, P°P±PsP»C-P·PjC₁ C, P°PjC₁C₁PrP»PsP·PëPSC₁

P·P°P»CfC±P°CHC,CHCfCЦ C„PμCHPjPμPSC,Pë CYP3A4 C- CYP2D6, P° C,P°PePsP¶
PSPμP·PSP°C±PSPsCH C” CfC±P°CfC,CH C-PSC€PëC... C-P·PsC„PμCHPjPμPSC,C-PI CYP.

PμCHPëPiPSC-C±PμPSPSCЦ P°PeC,PëPIPSPsCfC,C- C„PμCHPjPμPSC,C-PI, CЦPeC-
P±PμCHCfC,CH CfC±P°CfC,CH Cf PïPμC±C-PSPePsPIPsPjCf PjPμC,P°P±PsP»C-P·PjC-,
PjPsP¶Pμ PïCHPëP·PIPμCfC,Pë PrPs PïPsCfPëP»PμPSPsC— PrC-C—
C,P°PjCfCfP»PsP·PëPSCf. PμPμCHPμPr PIPëPIPμPrPμPSPSCЦPj P·C- CfPμC±PμCH
PjPμC,P°P±PsP»C-C,Pë C,P°PjCfCfP»PsP·PëPSCf PïC-PrCHPμC...P»PsCHPëPrCf
PïC-PrPrP°CHC,CHCfCЦ C€PëCHPsPePsPjCf P·PIB¶™ CЦP·CfPIP°PSPSCH P·
PiP»CHPeCfCHPsPSC-PrPsPj P°P±Ps CfCfP»CHC„P°C,PsPj.

P’PëPIPμPrPμPSPSCЦ

P”CfC,P°CfC,PμCHPëPr

P’PëPIPμPrPμPSPSCЦ PrCfC,P°CfC,PμCHPëPrCf P·P°P»PμP¶PëC,CH PIC-Pr PrPsP·Pë, C-
C†PμPNë PïCHPsC†PμCf CfP»C-Pr PsPïPëCfCfPIP°C,Pë CЦPe C,P°PePëPNë, C%Ps
PIC-PrP±CfPIP°C”C,CHCfCЦ PrPIPsPjP° PïP°CHP°P»PμP»CHPSPëPjPë
C€P»CЦC...P°PjPë: PsPrPëPS C” PSP°CfPëC±CfPIP°PSPëPj PïCHPë PeP»C-PSC-C±PSPs
P·PSP°C±CfC%PëC... PePsPSC†PμPSC,CHP°C†C-CЦC..., P° PrCHCfPïPëPNë B¶”
PSPμPSP°CfPëC±CfPIP°PSPëPj. PμCHPë PSPëP·CHPePëC...
PePsPSC†PμPSC,CHP°C†C-CЦC... Cf CfPëCHPsPIP°C,C†C- PeCHPsPIC- (PjPμPSC€Pμ 3
PSPi/PjP») PrCfC,P°CfC,PμCHPëPr C€PIPëPrPePs PIPëPIPsPrPëC,CHCfCЦ CЦPe
P·P°P»PμP¶PSPëPj PIC-Pr PePsPSC†PμPSC,CHP°C†C-C—, C,P°Pe C-
PSPμP·P°P»PμP¶PSPëPj PIC-Pr PePsPSC†PμPSC,CHP°C†C-C— C€P»CЦC...PsPj. PμCHPë
P·P°CfC,PsCfCfPIP°PSPSC- PsPrPSPsCHP°P·PsPIPëC... PrPsP· 5 PjPi P°P±Ps
PjPμPSC€PëC... PrPsP· P±CfP»Ps PIPëCЦPIP»PμPSPs PsP·PSP°PePë C€PIPëPrPePsPiPs
PeP»C-CHPμPSCfCf C- PICfC,P°PSPsPIP»PμPSPs PïPμCHC-PsPr
PSP°PïC-PIIPëPIPμPrPμPSPSCЦ, CЦPePëPNë C,CHPëPIP°C” PIC-Pr 3 PrPs 9 PrPSC-PI.

PμCHPë C,PμCHP°PïPμPIC,PëC±PSPëC... PePsPSC†PμPSC,CHP°C†C-CЦC... PïC-CfP»CЦ
PïPsPIC,PsCHPSPsPiPs PIIPμPrPμPSPSCЦ PrPsP·Pë 0,5 PjPi PSP° PrPsP±Cf
PrPsPjC-PSCfC” PïPsPIC-P»CHPSC-C€PëPNë, P»C-PSC-PNëPSPëPNë C€P»CЦC...
PIPëPIPμPrPμPSPSCЦ, P° PïPμCHC-PsPr PSP°PïC-PIIPëPIPμPrPμPSPSCЦ
CfC,P°PSPsPIPëC,CH PïCHPëP±P»PëP·PSPs 3B¶”5 C,PëP¶PSC-PI.

PÿP°PjCfCfP»PsP·PëPS

PÿP°PjCfCfP»PsP·PëPS C- PNëPsPiPs PjPμC,P°P±PsP»C-C,Pë PIPëPIPsPrCЦC,CHCfCЦ
PïPμCHPμPIP°P¶PSPs P·C- CfPμC±PμCH, PI CЦPeC-PNë PïCHPëP±P»PëP·PSPs 9 %
PrPsP·Pë B¶” Cf PIPëPiP»CЦPrC- PSPμP·PjC-PSPμPSPsC— P°PeC,PëPIPSPsC—
CHPμC±PsPIPëPSPë.

PμC-CfP»CЦ PIPSCfC,CHC-C€PSCHPsPIPμPSPSPsPiPs P°P±Ps
PïPμCHPsCHP°P»CHPSPsPiPs P·P°CfC,PsCfCfPIP°PSPSCЦ Cf P»C-PeP°CHCfCHPeC-PNë
C„PsCHPjC- P· PSPμPiP°PNëPSPëPj PIPëPIC-P»CHPSPμPSPSCЦPj PïPμCHC-PsPr
PSP°PïC-PIIPëPIPμPrPμPSPSCЦ C,P°PjCfCfP»PsP·PëPSCf, C%Ps
PjC-CfC,PëC,CHCfCЦ Cf PïP»P°P·PjC- PeCHPsPIC-, PePsP»PëPIP°C”C,CHCfCЦ PI
PrC-P°PïP°P·PsPSC- PIC-Pr 5 PrPs 7 PiPsPrPëPS. P¶PμCHPμP·

C,,P°CḡPjP°PePsPeC-PSPµC,PëPeCṛ, CḡPµPiCṛP»CHbPsPIP°PSCṛ C€PIPëPrPeC-CṛC,Cḡ
PİPsPiP»PëPSP°PSPSCḷ Cṛ PIPëPiP°PrPeCṛ P· C,P°PjCṛCṛP»PsP·PëPSPsPj Cṛ
PeP°PiCṛCṛP»P°C... P· PjPsPrPëC,,C-PePsPIP°PSPëPj PIPëPIC-P»CHbPSPµPSPSCḷPj,
CṛPİCḡP°PIP¶PSC-PNë PİPµCḡC-PsPr PSP°PiC-PIPIPëPIPµPrPµPSPSCḷ
C,P°PjCṛCṛP»PsP·PëPSCṛ, PiCḡPëPNëPSCḷC,PsPiPs PiC-CṛP»Cḷ C—PrPë,
CṛC,P°PSPsPIPëC,CHb PiCḡPëP±P»PëP·PSPs 10 PiPsPrPëPS, P° PI
CḡC-PIPSPsPIP°P¶PSC-PNë PePsPSC†PµPSC,CḡP°C†C-C— Cṛ PİP°C†C-C”PSC,C-PI Bḡ”
PiCḡPëP±P»PëP·PSPs 13 PiPsPrPëPS.

PµP°C†C-C”PSC,Pë P»C-C,PSCHbPsPiPs PIC-PeCṛ

P”CṛC,P°CṛC,PµCḡPëPr

PαP°CḡPjP°PePsPeC-PSPµC,PëPeP° PrCṛC,P°CṛC,PµCḡPëPrCṛ
PsC†C-PSCḡPIP°P»P°CṛCḷ Cṛ 36 P·PrPsCḡPsPIPëC... C†PsP»PsPIC-PeC-PI-
PrPsP±CḡPsPIPsP»CHbC†C-PI PIC-PePsPj PIC-Pr 24 PrPs 87 CḡPsPeC-PI PiC-CṛP»Cḷ
PIPIPµPrPµPSPSCḷ PsPrPSPsCḡP°P·PsPIPsC— PrPsP·Pë 5 PjPi. P—PSP°C†PSPsC—
P·P°P»PµP¶PSPsCṛC,C- PIPİP»PëPICṛ PrCṛC,P°CṛC,PµCḡPëPrCṛ PIC-Pr PIC-PeCṛ
PİP°C†C-C”PSC,P° PSPµ CṛPİPsCṛC,PµCḡC-PiP°P»PsCṛCḷ, P°P»Pµ PİPµCḡC-PsPr
PSP°PiC-PIPIPëPIPµPrPµPSPSCḷ P±CṛPI PePsCḡPsC,C€PëPj Cṛ C†PsP»PsPIC-PeC-PI
PIC-PePsPj PrPs 50 CḡPsPeC-PI. PŸC,P°C,PëCṛC,PëC†PSPëC...
PIC-PrPjC-PSPSPsCṛC,PµPNë Cṛ PİPµCḡC-PsPrC- PSP°PiC-PIPIPëPIPµPrPµPSPSCḷ PSPµ
P±CṛP»Ps PiCḡPë PİPsCḡC-PIPSCḷPSPSC- PiCḡCṛPİPë 50Bḡ”69-CḡC-C†PSPëC...
PrPsCṛP»C-PrP¶CṛPIP°PSPëC... C-P· PiCḡCṛPİPsCḡ PrPsCṛP»C-PrP¶CṛPIP°PSPëC...
PIC-PePsPj PIC-Pr 70 CḡPsPeC-PI.

PŸP°PjCṛCṛP»PsP·PëPS

PµPµCḡPµC...CḡPµCṛPSPµ PİPsCḡC-PIPSCḷP»CHbPSPµ PrPsCṛP»C-PrP¶PµPSPSCḷ
P·P°PiP°P»CHbPSPsPiPs PIPİP»PëPICṛ C,P°PjCṛCṛP»PsP·PëPSCṛ
PiC-PrCḡPsC...P»PsCḡPëPrCṛ (AUC) C- PİPµCḡC-PsPrCṛ
PSP°PiC-PIPIPëPIPµPrPµPSPSCḷ PIPeP°P·CṛC” PSP° C,Pµ, C%oPs
C,,P°CḡPjP°PePsPeC-PSPµC,PëC†PSP° PrC-Cḷ C,P°PjCṛCṛP»PsP·PëPSCṛ
PiC-PrCḡPsC...P»PsCḡPëPrCṛ PjPsP¶Pµ P±CṛC,Pë C,CḡPsC...Pë C,CḡPëPIP°P»C-C€PsCḡ
Cṛ PİP°C†C-C”PSC,C-PI P»C-C,PSCHbPsPiPs PIC-PeCṛ PİPsCḡC-PIPSCḷPSPs P·
PjPsP»PsPrPëPjPë P·PrPsCḡPsPIPëPjPë PrPsP±CḡPsPIPsP»CHbC†CḷPjPë
C†PsP»PsPIC-C†PsC— CṛC,P°C,C-. P’P»P°CṛPSPëPNë PeP»C-CḡPµPSCṛ PSPµ
P·P°P»PµP¶PëC,CHb PIC-Pr P·PIBḡ™ CḷP·CṛPIP°PSPSCḷ C,P°PjCṛCṛP»PsP·PëPSCṛ
PiC-PrCḡPsC...P»PsCḡPëPrCṛ P· α-1-PePëCṛP»PëPj PiP»C-PePsPiCḡPsC,PµC—PSPsPj,
P°P»Pµ P·PSPëP¶CṛC”C,CHbCṛCḷ P· PIC-PePsPj PİP°C†C-C”PSC,P°, Cṛ
CḡPµP·CṛP»CHbC,P°C,C- C†PsPiPs P·P°PiP°P»CHbPSP° PrC-Cḷ C” PSP° 40 %
CṛPëP»CHbPSC-C€PsCḡ (AUC) Cṛ PİP°C†C-C”PSC,C-PI PIC-PePsPj 55Bḡ”75 CḡPsPeC-PI
PİPsCḡC-PIPSCḷPSPs P· PrC-C”Cḡ Cṛ PİP°C†C-C”PSC,C-PI PIC-PePsPj 20Bḡ”32
CḡPsPePë.

PkPëCḡPePsPIP° PSPµPrPsCṛC,P°C,PSC-CṛC,CHb

P”CṛC,P°CṛC,PµCḡPëPr

P'PīP»PēPI PSPēCḡPePsPIPsC— PSPμPrPsCfC,P°C,PSPsCfC,C- PSP°
C,,P°CḡPjP°PePsPeC-PSPμC,PēPeCf PrCfC,P°CfC,PμCḡPēPrCf PSPμ PIPēPIC‡P°P»Pē.
PḡP»Pμ Cf CfPμC‡C- P»CḡPrPēPSPē PIPēCḡPIP»CḡC" C,CHCfCḡ PjPμPSC€Pμ 0,1 %
PrPsP·Pē PrCfC,P°CfC,PμCḡPēPrCf 0,5 PjPi Cf CḡC-PIPSPIPsP°PḡPSC-PNē
PePsPSC‡PμPSC,CḡP°C‡C-C—, C,PsPjCf PeP»C-PSC-C‡PSPs P·PSP°C‡CfC%PsPiPs
PīC-PrPIPēC%PμPSPSCḡ PePsPSC‡PμPSC,CḡP°C‡C-C— PrCfC,P°CfC,PμCḡPēPrCf Cf
PīP»P°P·PjC- PeCḡPsPIC- Cf PīP°C‡C-C" PSC,C-PI P· PSPēCḡPePsPIPsCḡ
PSPμPrPsCfC,P°C,PSC-CfC,Cḡ PsC‡C-PeCfPIP°C,Pē PSPμ CfP»C-Pr (PrPēPI.
CḡPsP·PrC-P» B«PŸPīPsCfC-P± P·P°CfC,PsCfCfPIP°PSPSCḡ C,P° PrPsP·PēB»).

PŸP°PjCfCfP»PsP·PēPS

PαP°CḡPjP°PePsPeC-PSPμC,PēPeP° C,P°PjCfCfP»PsP·PēPSCf
PiC-PrCḡPsC...P»PsCḡPēPrCf PīPsCḡC-PIPSCHPIP°P»P°CfCḡ Cf 6 PīP°C‡C-C" PSC,C-PI
P· PSPēCḡPePsPIPsCḡ PSPμPrPsCfC,P°C,PSC-CfC,Cḡ PIC-Pr CfP»P°P±PePsPiPs PrPs
PīPsPjC-CḡPSPsPiPs ($30 \leq CL_{cr} < 70 PjP»/C...PI/1,73 Pj^2$) P°P±Ps PIC-Pr
PīPsPjC-CḡPSPsPiPs PrPs C,CḡPḡPePsPiPs ($10 \leq CL_{cr} < 30 PjP»/C...PI/1,73 Pj^2$)
CfC,CfPīPμPSCḡ C- Cf 6 PrPsCfP»C-PrPḡCfPIP°PSPēC... P· PSPsCḡPjP°P»CHBPSPēPj
PeP»C-CḡPμPSCfPsPj ($CL_{cr} < 90 PjP»/C...PI/1,73 Pj^2$). Pj C,PsPNē C‡P°Cf CḡPe Cf
P·P°PiP°P»CHBPSC-PNē PePsPSC‡PμPSC,CḡP°C‡C-C— C,P°PjCfCfP»PsP·PēPSCf
PiC-PrCḡPsC...P»PsCḡPēPrCf Cf PīP»P°P·PjC- PeCḡPsPIC-
CfPīPsCfC,PμCḡC-PiP°P»P°CfCḡ P·PjC-PSP° PI CḡPμP·CfP»CHC,P°C,C-
P·PjC-PSPSPsPiPs P·PIbḡ™ CḡP·CfPIP°PSPSCḡ P· α-1-PePēCfP»PēPj
PīP»C-PePsPīCḡPsC,PμC—PSPsPj, PePsPSC‡PμPSC,CḡP°C‡C-Cḡ
PSPμP·PIbḡ™ CḡP·P°PSPsPiPs (P°PeC,PēPIPSPsPiPs) C,P°PjCfCfP»PsP·PēPSCf
PiC-PrCḡPsC...P»PsCḡPēPrCf, P° C,P°PePsPḡ PIP»P°CfPSPēPNē PeP»C-CḡPμPSCf
P·P°P»PēC€P°P»PēCfCḡ PIC-PrPSPsCfPSPs CfC,P°P±C-P»CHBPSPēPjPē. PŸPsPjCf
PīP°C‡C-C" PSC,P°Pj P· PSPēCḡPePsPIPsCḡ PSPμPrPsCfC,P°C,PSC-CfC,Cḡ PSPμ
PīPsC,CḡC-P±PSP° PePsCḡPμPeC‡C-Cḡ PrPsP·Pē C,P°PjCfCfP»PsP·PēPSCf
PiC-PrCḡPsC...P»PsCḡPēPrCf PI PeP°PīCfCfP»P°C.... PḡP»Pμ PīP°C‡C-C" PSC,Pē P·
C,PμCḡPjC-PSP°P»CHBPSPsCḡ CfC,P°PrC-C" Cḡ PSPēCḡPePsPIPsC—
PSPμPrPsCfC,P°C,PSPsCfC,C- ($CL_{cr} < 10 PjP»/C...PI/1,73 Pj^2$) PSPμ
PrPsCfP»C-PrPḡCfPIP°P»PēCfCḡ.

PμPμC‡C-PSPePsPIP° PSPμPrPsCfC,P°C,PSC-CfC,CH

P" CfC,P°CfC,PμCḡPēPr

P'PīP»PēPI PīPμC‡C-PSPePsPIPsC— PSPμPrPsCfC,P°C,PSPsCfC,C- PSP°
C,,P°CḡPjP°PePsPeC-PSPμC,PēPeCf PrCfC,P°CfC,PμCḡPēPrCf PSPμ PIPēPIC‡P°PICfCḡ
(PrPēPI. CḡPsP·PrC-P» B«PμCḡPsC,PēPīPsPeP°P·P°PSPSCḡB»). PḡCfPeC-P»CHPePē
PrCfC,P°CfC,PμCḡPēPr PIPēPIPsPrPēC,CHCfCḡ PīPμCḡPμPIP°PḡPSPs C€P»CḡC...PsPj
PjPμC,P°P±PsP»C-P·PjCf, PsC‡C-PeCfC" C,CHCfCḡ, C%Ps CḡC-PIPμPSCḡ
PrCfC,P°CfC,PμCḡPēPrCf PI PīP»P°P·PjC- PeCḡPsPIC- C‡PēC... PīP°C‡C-C" PSC,C-PI
P±CfPrPμ PiC-PrPIPēC%PμPSPēPj, P° PīPμCḡC-PsPr PSP°PīC-PIPIPēPIPμPrPμPSPSCḡ
bḡ" C,CḡPēPIP°P»C-C€PēPj (PrPēPI. CḡPsP·PrC-P»Pē B«PḡCfPsP±P»PēPIPsCfC,C-
P·P°CfC,PsCfCfPIP°PSPSCḡB» C,P° B«PŸPīPsCfC-P± P·P°CfC,PsCfCfPIP°PSPSCḡ C,P°
PrPsP·PēB»).

PyP°PjCfCfP»PsP·PëPS

PαP°CfPjP°PePsPeC-PSPμC,PëPeCf C,P°PjCfCfP»PsP·PëPSCf
PiC-PrCfPSC...P»PsCfPëPrCf PiPsCfC-PIPSCfPIP°P»Pë Cf 8 PiP°CfC-C"PS,C-PI P·
PiPsPjC-CfPSPëPjPë PiPsCfCfC€PμPSPSCfPjPë C,,CfPSPeCfC-C— PiPμCfC-PSPePë
(PeP»P°CfPëC,,C-PeP°CfC-Cf P·P° P\$P°PNëP»PrPsPj бг " Pμбг™ Cф: CfC,CfPiPμPSC- A C-
B) C- Cf 8 PrPsCfP»C-PrP¶CfPIP°PSPëC... P· PSPSCfPjP°P»CHPSPSCf
C,,CfPSPeCfC-C"CF PiPμCfC-PSPePë. P' C,PsPNë CfP°Cf CfPe P·PjC-PSP° Cf
P·P°PiP°P»CHPSC-PNë PePsPSCfPμPSC,CfP°CfC-C— C,P°PjCfCfP»PsP·PëPSCf
PiC-PrCfPSC...P»PsCfPëPrCf PI PiP»P°P·PjC- PeCfPSCf-
CfPiPsCfC,PμCfC-PiP°P»P°CfCf PI CfPμP·CfP»CHC,P°C,C- P·PjC-PSPSPsPiPs
P·Piбг™ CfP·CfPIP°PSPSCf P· α-1-PePëCfP»PëPj PiP»C-PePsPiCfPSC,PμC—PSPsPj,
PePsPSCfPμPSC,CfP°CfC-Cf PSPμP·Piбг™ CfP·P°PSPsPiPs (P°PeC,PëPIPSPsPiPs)
C,P°PjCfCfP»PsP·PëPSCf PiC-PrCfPSC...P»PsCfPëPrCf PSPμ P·P°P·PSP°PIP°P»P°
P·PSP°CfPSPëC... P·PjC-PS, PIC-PrP·PSP°CfP°P»P°CfCf C,C-P»CHPePë PiPsPjC-CfPSP°
(32 %) P·PjC-PSP° PIP»P°CfPSPsPiPs PeP»C-CfPμPSCfCf PSPμP·Piбг™ CfP·P°PSPsPiPs
C,P°PjCfCfP»PsP·PëPSCf PiC-PrCfPSC...P»PsCfPëPrCf. PyPsPjCf PiP°CfC-C"PS,C,Pë P·
PiPsPjC-CfPSPëPjPë PiPsCfCfC€PμPSPSCfPjPë C,,CfPSPeCfC-C— PiPμCfC-PSPePë
PSPμ PiPsC,CfPμP±CfCfC,CH PePsCfPμPeCfC-C— PrPsP·Pë C,P°PjCfCfP»PsP·PëPSCf
PiC-PrCfPSC...P»PsCfPëPrCf. P"C-Cf C,P°PjCfCfP»PsP·PëPSCf
PiC-PrCfPSC...P»PsCfPëPrCf PSPμ PIPëPICfP°P»P°CfCf Cf PiP°CfC-C"PS,C-PI P·
C,CfP¶PePëPjPë PiPsCfCfC€PμPSPSCfPjPë C,,CfPSPeCfC-C— PiPμCfC-PSPePë.

P'PμP·PiPμPeP° C,P° PeP»C-PSC-CfPSC- PrPsCfP»C-PrP¶PμPSPSCf

PYpμCfCfPμPIP° PSPμPrPsCfC,P°C,PSC-CfC,CH

PJ 4-CfC-CfPSPsPjCf PeP»C-PSC-CfPSPsPjCf PrPsCfP»C-PrP¶PμPSPSC-
P·P°CfC,PsCfCfPIP°PSPSCf PrCfC,P°CfC,PμCfPëPrCf Cf PiPsC"PrPSP°PSPSC- P·
C,P°PjCfCfP»PsP·PëPSPsPj PrP»Cf P»C-PeCfPIP°PSPSCf PrPsP±CfPSCfPeC-CfPSPSC—
PiC-PiPμCfPiP»P°P·C-C— PiPμCfPμPrPjC-C...CfCfPSPsPiPsC— P·P°P»PsP·Pë Cf 4844
CfPsP»PsPIC-PeC-PI (PrPsCfP»C-PrP¶PμPSPSCf CombAT) CfP°CfC,PsC,P°
PIPëPSPëPePSPμPSPSCf CfPμCfCfPμPiPsC— PSPμPrPsCfC,P°C,PSPsCfC,C- (P·P±C-CfPSPμ
PiPsPSCfC,C,Cf) Cf PiCfCfPiC- PePsPjP±C-PSPsPIP°PSPSC— C,PμCfP°PiC-C— P±CfP»P°
PIPëC%PsCf (14/1610, 0,9 %), PSC-P¶ Cf P±CfPrCH-CfPeC-PNë PiCfCfPiC-
PjPsPSPSC,PμCfP°PiC-C— PrCfC,P°CfC,PμCfPëPrPsPj (4/1623, 0,2 %) P°P±Ps
C,P°PjCfCfP»PsP·PëPSPsPj (10/1611, 0,6 %).

P' PsPeCfPμPjPsPjCf 4-CfC-CfPSPsPjCf PeP»C-PSC-CfPSPsPjCf PiPsCfC-PIPSCfP»CHPSPsPjCf
PrPsCfP»C-PrP¶PμPSPSC- PiP»P°CfPμP±Ps P· C...C-PjC-CfPSPSCf
PiCfPSC,,C-P»P°PeC,PëPePsCf PrCfC,P°CfC,PμCfPëPrPsPj P·P° CfCfP°CfC,Cf 8231
CfPsP»PsPIC-PeP° PIC-PePsPj PIC-Pr 50 PrPs 75 CfPSPeC-PI P· PiPsPiPμCfPμPrPSC-PjPë
PSPμPiP°C,PëPIPSPëPjPë PrP°PSPëPjPë P±C-PsPiCfC-C— PSP° CfP°Pe
PiPμCfPμPrPjC-C...CfCfPSPsPiPsC— P·P°P»PsP·Pë C- PIPëC...C-PrPSPëPj CfC-PIPSPμPj PSA
PjC-P¶ 2,5 PSPI/PjP» C- 10,0 PSPI/PjP» Cf CfPsP»PsPIC-PeC-PI PIC-PePsPj PIC-Pr 50 PrPs 60
CfPSPeC-PI P°P±Ps 3 PSPI/PjP» C- 10,0 PSPI/PjP» Cf CfPsP»PsPIC-PeC-PI PIC-PePsPj PIC-Pr 60
CfPSPeC-PI (PrPsCfP»C-PrP¶PμPSPSCf REDUCE) P±CfP»Ps PICfC,P°PSPsPIP»PμPSPs, C%Ps
CfP°CfC,PsC,P° PIPëPSPëPePSPμPSPSCf CfPμCfCfPμPiPsC—
PSPμPrPsCfC,P°C,PSPsCfC,C- Cf PiP°CfC-C"PS,C-PI, CfPeC- PiCfPëPNëPjP°P»Pë
PrCfC,P°CfC,PμCfPëPr 0,5 PjPi 1 CfP°P· PSP° PrPsP±Cf (30/4105, 0,7 %), P±CfP»P°

PIPëC%PsCĤ PĭPsCĤC-PIPSCĬPSPs P· PĭP°C†C-C" PSC,P°PjPë, CĬPeC-
PĭCĤPëPNëPjP°P»Pë PĭP»P°C†PμP±Ps (16/4126, 0,4 %).
P PμC,CĤPsCĬPĭPμPeC,PëPIPSPëPNë P°PSP°P»C-P· C†CHPsPiPs
PrPsCĬP»C-PrP¶PμPSPSCĬ PĭPsPeP°P·P°PI PIPëC%Cr C†P°CĬC,PsC,Cr
CĬPμCĤC†PμPIPsC— PSPμPrPsCĬC,P°C,PSPsCĬC,C- Cr PĭP°C†C-C" PSC,C-PI, CĬPeC-
PĭCĤPëPNëPjP°P»Pë PrCrC,P°CĬC,PμCĤPëPr C- α-P±P»PsPeP°C,PsCĤ
PsPrPSPsC†P°CĬPSPs (12/1152, 1,0 %), PĭPsCĤC-PIPSCĬPSPs P· PĭP°C†C-C" PSC,P°PjPë,
CĬPeC- PĭCĤPëPNëPjP°P»Pë PrCrC,P°CĬC,PμCĤPëPr P±PμP· α-P±P»PsPeP°C,PsCĤP°
(18/2953, 0,6 %), PĭP»P°C†PμP±Ps C- α-P±P»PsPeP°C,PsCĤ (1/1399, <0,1 %) P°P±Ps
PĭP»P°C†PμP±Ps P±PμP· α-P±P»PsPeP°C,PsCĤP° (15/2727, 0,6 %). PμCĤPëC†PëPSPSPsPiPs
PIP·P°C" PjPsP·PiBĤ™ CĬP·PeCr PjC-P¶ P·P°CĬC,PsCĬCrPIP°PSPSCĬPj
PrCrC,P°CĬC,PμCĤPëPrCr (CĬPe PjPsPSPsC,PμCĤP°PĭC-C— P°P±Ps Cr
PePsPjP±C-PSP°C†C-C— P· α-P±P»PsPeP°C,PsCĤP°PjPë) C,P° PIPëPSPëPePSPμPSPSCĬPj
CĬPμCĤC†PμPIPsC— PSPμPrPsCĬC,P°C,PSPsCĬC,C- PICĬC,P°PSPsPIP»PμPSPs PSPμ
P±CrP»Ps (PrPëPI. CĤPsP·PrC-P» B«PhCĬPsP±P»PëPIPsCĬC,C-
P·P°CĬC,PsCĬCrPIP°PSPSCĬB»).

P P°Pe PĭPμCĤPμPrPjC-C...CrCĤPsPIPsC— P·P°P»PsP·Pë C-
PSPëP·CHPePsPrPëC,,PμCĤPμPSC†C-PNëPsPIP°PSC- PĭCrC...P»PëPSPë

Pj 4-CĤC-C†PSPsPjCr PrPsCĬP»C-PrP¶PμPSPSC-, PI CĬPePsPjCr PIPëPIC†P°P»Pë PrC-CĤ
PrCrC,P°CĬC,PμCĤPëPrCr PĭPsCĤC-PIPSCĬPSPs P· PĭP»P°C†PμP±Ps, Cr 8231 C†PsP»PsPIC-PeP°
PIC-PePsPj PIC-Pr 50 PrPs 75 CĤPsPeC-PI P· PĭPsPĭPμCĤPμPrPSC-PjPë PSPμPiP°C,PëPIPSPëPjPë
PrP°PSPëPjPë P±C-PsPĭCĬC-C— PSP° CĤP°Pe PĭPμCĤPμPrPjC-C...CrCĤPsPIPsC— P·P°P»PsP·Pë
C- PIPëC...C-PrPSPëPj CĤC-PIPSPμPj PSA PjC-P¶ 2,5 PSPi/PjP» C- 10,0 PSPi/PjP» Cr
C†PsP»PsPIC-PeC-PI PIC-PePsPj PIC-Pr 50 PrPs 60 CĤPsPeC-PI P°P±Ps 3 PSPi/PjP» C- 10,0
PSPi/PjP» Cr C†PsP»PsPIC-PeC-PI PIC-PePsPj PIC-Pr 60 CĤPsPeC-PI (PrPsCĬP»C-PrP¶PμPSPSCĬ
REDUCE) 6706 PĭP°C†C-C" PSC,P°Pj P±CrP»Ps PĭCĤPsPIPμPrPμPSPs PiPsP»PePsPICr
P±C-PsPĭCĬC-CĤ PĭCĤPsCĬC,P°C,Pë (PsP±PsPiBĤ™ CĬP·PePsPICr P·P° PĭPμCĤPIPëPSPSPëPj
PĭCĤPsC,PsPePsP»PsPj), PrP°PSC- CĬPePsC— P±CrP»Pë PIPëPePsCĤPëCĬC,P°PSC- PrP»CĬ
P°PSP°P»C-P·Cr PrPëC,,PμCĤPμPSC†C-CĤPIP°PSPSCĬ P·P° CĖPeP°P»PsCĤ P" P»C-CĬPsPSP°. Pj
PrPsCĬP»C-PrP¶PμPSPSC- P±CrP»Ps PIPëCĬPIP»PμPSPs 1517 PĭP°C†C-C" PSC,C-PI P·
PrC-P°PiPSPsP·PsPj CĤP°Pe PĭCĤPsCĬC,P°C,Pë. P'C-P»CHCĖC-CĬC,CH PĭCrC...P»PëPS
PĭCĤPsCĬC,P°C,Pë (70 %), PIPëCĬPIP»PμPSPëC... P·P° PrPsPiPsPjPsPiPsCĤ P±C-PsPĭCĬC-C—, PI
PsP±PsC... PĭCĤCrPĭP°C... P»C-PeCrPIP°PSPSCĬ PjP°P»Pë PIPëCĬPsPePëPNë CĤC-PIPμPSCĤ
PrPëC,,PμCĤPμPSC†C-CĤPIP°PSPSCĬ (5BĤ"6 P±P°P»C-PI P·P° CĖPeP°P»PsCĤ P" P»C-CĬPsPSP°).

Pj PĭCĤCrPĭC- PrCrC,P°CĬC,PμCĤPëPrCr P·P°CĤPμC" CĬC,CĤPsPIP°PSPs PIPëC%Cr
C†P°CĬC,PsC,Cr (n=29, 0,9 %) PSPëP·CHPePsPrPëC,,PμCĤPμPSC†C-PNëPsPIP°PSPsPiPs CĤP°PeCr
PĭCĤPsCĬC,P°C,Pë (8BĤ"10 P±P°P»C-PI P·P° CĖPeP°P»PsCĤ P" P»C-CĬPsPSP°)
PĭPsCĤC-PIPSCĬPSPs P· PĭCĤCrPĭPsCĤ PĭP»P°C†PμP±Ps (n=19, 0,6 %) (CĤ=0,15). Pj
PĭPμCĤCĖC- 2 CĤPsPePë PrPsCĬP»C-PrP¶PμPSPSCĬ PeC-P»CHPeC-CĬC,CH
PĭP°C†C-C" PSC,C-PI P· CĤP°PePsPj PĭPμCĤPμPrPjC-C...CrCĤPsPIPsC— P·P°P»PsP·Pë P·
PĭPsPeP°P·PSPëPePsPj 8BĤ"10 P±P°P»C-PI P·P° CĖPeP°P»PsCĤ P" P»C-CĬPsPSP° P±CrP»P°
PsPrPSP°PePsPIPsCĤ Cr PĭCĤCrPĭC- PrCrC,P°CĬC,PμCĤPëPrCr (n=17, 0,5 %) C- PI PĭCĤCrPĭC-
PĭP»P°C†PμP±Ps (n=18, 0,5 %). PμCĤPsC,CĬPiPsPj 3BĤ"4-PiPs CĤPsPeC-PI
PrPsCĬP»C-PrP¶PμPSPSCĬ P±C-P»CHCĖP° PeC-P»CHPeC-CĬC,CH PIPëPĭP°PrPeC-PI CĤP°PeCr
PĭPμCĤPμPrPjC-C...CrCĤPsPIPsC— P·P°P»PsP·Pë P· PĭPsPeP°P·PSPëPePsPj 8BĤ"10 P±P°P»C-PI
P·P° CĖPeP°P»PsCĤ P" P»C-CĬPsPSP° P±CrP»Ps PrC-P°PiPSPsCĬC,PsPIP°PSPs Cr PĭCĤCrPĭC-
PrCrC,P°CĬC,PμCĤPëPrCr (n=12, 0,5 %) PĭPsCĤC-PIPSCĬPSPs P· PĭCĤCrPĭPsCĤ PĭP»P°C†PμP±Ps

(n=1, < 0,1 %) (C₇=0,0035). PkPμPjP°C” PrP°PSPëC... PíC₇Ps PIPiP»PëPI PSP° C₇PëP·PëPe C₇PsP·PIPëC,PeCr C₇P°PeCr PíC₇PsCíC,P°C,Pë Cr C₇PsP»PsPIC-PeC-PI, C₇IPeC-PíC₇PëPN₂PjP°P»Pë PrCrC,P°CíC,PμC₇PëPr PíPsPSP°Pr 4 C₇PsPePë. P’C-PrCíC₇PsC,PsPe PíP°C†C-C”PSC,C-PI P· PrC-P°PiPSPsP·PsPj C₇P°PeCr PíPμC₇PμPrPjC-C...C₇C₇PsPIPSc— P·P°P»PsP·Pë P· PíPsPeP°P·PSPëPePsPj 8b₇”10 P±P°P»C-PI P·P° CëPeP°P»PsC₇ P”P»C-CíC₇PsPSP° P·P±PμC₇C-PiP°PICíC₇ PíPsCíC,C-PN₂PSPëPj Cr C₇C-P·PSC- PíPμC₇C-PsPrPë PrPsCíP»C-PrP¶PμPSPSC₇ (1b₇”2-PëPN₂ C₇PsPePë, 3b₇”4-PëPN₂ C₇PsPePë) Cr PíC₇CrPíC-PrCrC,P°CíC,PμC₇PëPrCr (0,5 % Cr PePsP¶PSPëPN₂ PíPμC₇C-PsPr C₇P°CíC₇), Cr C,PsPN₂ C₇P°CíC₇ C₇IPe Cr PíC₇CrPíC- PíP»P°C†PμP±Ps PIC-PrCíC₇PsC,PsPe PíP°C†C-C”PSC,C-PI C-P· PSPëP·CHPePsPrPëC,,PμC₇PμPSC†C-PN₂PsPIP°PSPëPj C₇P°PePsPj PíC₇PsCíC,P°C,Pë (8b₇”10 P±P°P»C-PI P·P° CëPeP°P»PsC₇ P”P»C-CíC₇PsPSP°) P±CíPI PSPëP¶C₇PëPj Cr 3b₇”4-PëPN₂ C₇PsPePë, PSC-P¶ Cr 1b₇”2-PëPN₂ C₇PsPePë (< 0,1 % C- 0,5 % PIC-PrPíPsPIC-PrPSPs) (PrPëPI. C₇PsP·PrC-P» B«PhCíC₇PsP±P»PëPIPsCíC,C- P·P°CíC,PsCíC₇PrP°PSPSC₇IB»). PkPμ P±CíP»Ps PSC-C₇IPePsC— C₇C-P·PSPëC†C- PI C₇P°CíC₇,PsC,C- PIPëPíP°PrPeC-PI C₇P°PeCr PíPμC₇PμPrPjC-C...C₇C₇PsPIPSc— P·P°P»PsP·Pë P· PíPsPeP°P·PSPëPePsPj 7b₇”10 P±P°P»C-PI P·P° CëPeP°P»PsC₇ P”P»C-CíC₇PsPSP° (C₇=0,81).

Pj 4-C₇C-C₇PSPsPjCr PeP»C-PSC-C₇PSPsPjCr PrPsCíP»C-PrP¶PμPSPSC- P»C-PeCrPIP°PSPSC₇ PrPsP±C₇PsC₇IPeC-CíC₇PSPSc— PiC-PíPμC₇PíP»P°P·C-C— PíPμC₇PμPrPjC-C...C₇C₇PsPIPSc— P·P°P»PsP·Pë (Combat), PrPμ PíPμC₇PIPëPSPSPëPj PíC₇PsC,PsPePsP»PsPj PSPμ P±CíP»Ps PíPμC₇PμPrP±P°C†PμPSPs PsP±PsPIb₇™ C₇IP·PePsPIC₇ P±C-PsPíCíC-C₇ C- PICíC-PrC-P°PiPSPsP·Pë C₇P°PeCr PíC₇PsCíC,P°C,Pë P±CíP»Pë PICíC,P°PSPsPIP»PμPSC- PSP° P±C-PsPíCíC-C— P·P° PíPsPeP°P·P°PSPSC₇PjPë, C₇P°CíC₇,PsC,P° PIPëPíP°PrPeC-PI C₇P°PeCr PíPμC₇PμPrPjC-C...C₇C₇PsPIPSc— P·P°P»PsP·Pë P· PíPsPeP°P·PSPëPePsPj 8b₇”10 P±P°P»C-PI P·P° CëPeP°P»PsC₇ P”P»C-CíC₇PsPSP° P±CíP»P° 0,5 % (n=8) Cr PíC₇CrPíC-PrCrC,P°CíC,PμC₇PëPrCr, 0,7 % (n=11) b₇” Cr PíC₇CrPíC- C,P°PjCíC₇P»PsP·PëPSC₇ C,P° 0,3 % (n=5) b₇” Cr PíC₇CrPíC- PePsPjP±C-PSPsPIP°PSPSc— C,PμC₇P°PíC-C—.

P—PIb₇™ C₇IP·PsPe PjC-P¶ P·P°CíC,PsCíC₇PrP°PSPSC₇Pj PrCrC,P°CíC,PμC₇PëPrCr C,P° PIPëPSPëPePSPμPSPSC₇Pj PSPëP·CHPePsPrPëC,,PμC₇PμPSC†C-PN₂PsPIP°PSPsPiPs C₇P°PeCr PíPμC₇PμPrPjC-C...C₇C₇PsPIPSc— P·P°P»PsP·Pë P·P°P»PëCëP°C”C,CHCíC₇ C₇IP·PSPμP·b₇™ C₇ICíC₇PsPIP°PSPëPj.

P P°Pe PíC₇C₇PrPSPSc— P·P°P»PsP·Pë C₇ C₇PsP»PsPIC-PeC-PI

P”PIP° PIPëPíP°PrPsPe-PePsPSC,C₇PsP»CHPsPIP°PSC- PμPíC-PrPμPjC-PsP»PsPiC-C₇PSC-PrPsCíP»C-PrP¶PμPSPSC₇, P· C₇IPePëC... PsPrPSPμ PíC₇PsPIPμPrPμPSPs Cr PÝPëPh (n=339 PIPëPíP°PrPeC-PI C₇P°PeCr PíC₇CrPrPSPSc— P·P°P»PsP·Pë C- n=6780 Cr PíC₇CrPíC-PePsPSC,C₇PsP»C₇), P° C-PSCëPμ b₇” Cr P’PμP»PëPeC-PN₂ P’C₇PëC,P°PSC-C— (n=398 PIPëPíP°PrPeC-PI C₇P°PeCr PíC₇CrPrPSPSc— P·P°P»PsP·Pë C- n=3930 Cr PíC₇CrPíC-PePsPSC,C₇PsP»C₇) Cr P±P°P·P°C... PrP°PSPëC... PsC...PsC₇PsPSPë P·PrPsC₇PsPIb₇™ C₇IP, PSPμ PíPsPeP°P·P°P»Pë PSC-C₇IPePsPiPs P·P±C-P»CHCëPμPSPSC₇ C₇PëP·PëPeCr C₇PsP·PIPëC,PeCr C₇P°PeCr PíC₇CrPrPSPSc— P·P°P»PsP·Pë Cr C₇PsP»PsPIC-PeC-PI PíC₇Pë P·P°CíC,PsCíC₇PrP°PSPSC- C-PSPiC-P±C-C,PsC₇C-PI 5α-C₇PμPrCrPeC,P°P·Pë. P PμP·CrP»CHC,P°C,Pë PíPμC₇CëPsPiPs PrPsCíP»C-PrP¶PμPSPSC₇ PSPμ PIPëC₇IPiPëP»Pë PíPsP·PëC,PëPIPsPiPs PIP·P°C”PjPsP·PIb₇™ C₇IP·PeCr P· C₇P°PePsPj PíC₇CrPrPSPSc— P·P°P»PsP·Pë (PIC-PrPSPScíC₇PSPëPN₂ C₇PëP·PëPe PrP»C₇IP 31 C₇PsPeCr P·P°CíC,PsCíC₇PrP°PSPSC₇ PrPs PICíC,P°PSPsPIP»PμPSPSC₇ PrC-P°PiPSPsP·Cr C₇P°PeCr PíC₇CrPrPSPSc— P·P°P»PsP·Pë PíPsC₇C-PIPSC₇IPSPs P· <1 C₇PsPeCr P·P°CíC,PsCíC₇PrP°PSPSC₇: 0,70: 95 % P”P† 0,34, 1,45). Pj PrC₇CrPiPsPjCr PrPsCíP»C-PrP¶PμPSPSC- PsC†C-PSPμPSPëPN₂ PIC-PrPSPScíC₇PSPëPN₂ C₇PëP·PëPe

СҒP°PeCf PiCҒCfPrPSPsC— P·P°P»PsP·Pë, PiPsPIBҒ™ CҒP·P°PSPëPNë C—P·
P·P°CfC,PsCfCfPIP°PSPSCҒPj C—PSPiC—P±C—C,PsCҒC—PI 5α-СҒPμPrCfPeC,P°P·Pë
PiPsCҒC—PIPSCҒPSPs P· C,P°PePëPj PiCҒPë PIC—PrCfCfC,PSPsCfC,C—
P·P°CfC,PsCfCfPIP°PSPSCҒ CfC,P°PSPsPIPëPI 1,08: 95 % P°P† 0,62, 1,87.

PμCҒPëC±PëPSPSPëPNë PIP·P°C°PjPsP·PIBҒ™ CҒP·PsPe PjC—PҒ PIPëPIP°PrPeP°PjPë CҒP°PeCf
PiCҒCfPrPSPsC— P·P°P»PsP·Pë Cf C±PsP»PsPIC—PeC—PI C,P° PrPsPIPiPsC,CҒPëPIP°P»PëPj
P·P°CfC,PsCfCfPIP°PSPSCҒPj PrCfC,P°CfC,PμCҒPëPrCf PSPμ PICfC,P°PSPsPIP»PμPSPs.

РҒP»C-PSC-C±PSC- C...P°CҒP°PeC,PμCҒPëCfC,PëPePë.

PμPsPeP°P·P°PSPSCҒ.

P>C—PeCfPIP°PSPSCҒ PiPsPjC—CҒPSPëC... C,P° C,CҒPҒPePëC... CfPëPjPiC,PsPjC—PI
PrPsP±CҒPsCҒPeC—CfPSPsC— PiC—PiPμCҒPiP»P°P·C—C— PiPμCҒPμPrPjC—C...CfCҒPsPIPsC—
P·P°P»PsP·Pë.

P—PjPμPSCëPμPSPSCҒ CҒPëP·PëPeCf PIPëPSPëPePSPμPSPSCҒ PiPsCfC,CҒPsC—
P·P°C,CҒPëPjPePë CfPμC±C— C,P° PSPμPsP±C...C—PrPSPsCfC,C— C...C—CҒCfCҒPiC—C±PSPsPiPs
PIC,CҒCfC±P°PSPSCҒ Cf PiP°C†C—C°PSC,C—PI P· PiPsPjC—CҒPSPëPjPë C,P° C,CҒPҒPePëPjPë
CfPëPjPiC,PsPjP°PjPë PrPsP±CҒPsCҒPeC—CfPSPsC— PiC—PiPμCҒPiP»P°P·C—C—
PiPμCҒPμPrPjC—C...CfCҒPsPIPsC— P·P°P»PsP·Pë.

PμCҒPsC,PëPiPsPeP°P·P°PSPSCҒ.

P°CfC,P°C,,PsCҒCf PSPμ P·P°CfC,PsCfPsPICfCҒC,CH PrP»CҒ P»C—PeCfPIP°PSPSCҒ
PҒC—PSPsPe C— PrC—C,PμPNë (PrPëPI. CҒPsP·PrC—P» B«P—P°CfC,PsCfCfPIP°PSPSCҒ Cf
PiPμCҒC—PsPr PIP°PiC—C,PSPsCfC,C— P°P±Ps PiPsPrCfPIP°PSPSCҒ PiCҒCfPrPrCҒB»).

P°CfC,P°C,,PsCҒCf PiCҒPsC,PëPiPsPeP°P·P°PSPëPNë C...PIPsCҒPëPj P· PiC—PrPIPëC%PμPSPsCҒ
C±CfC,P»PëPIC—CfC,CҒ PrPs PrCfC,P°CfC,PμCҒPëPrCf, C—PSCëPëC... C—PSPiC—P±C—C,PsCҒC—PI
5α-СҒPμPrCfPeC,P°P·Pë, C,P°PjCfCfP»PsP·PëPSCf (PIPeP»CҒC±P°CҒC±Pë
C,P°PjCfCfP»PsP·PëPSC—PSPrCfPePsPIP°PSPëPNë P°PSPiC—PsPSPμPICҒPsC,PëC±PSPëPNë
PSP°P±CҒCҒPe), C—PSCëPëC... PePsPjPiPsPSPμPSC,C—PI PiCҒPμPiP°CҒP°C,Cf P°P±Ps PrPs
CfPsC— C,P° P°CҒP°C...C—CfCf.

P°CfC,P°C,,PsCҒCf PiCҒPsC,PëPiPsPeP°P·P°PSPëPNë C...PIPsCҒPëPj, CҒPeC— PjP°CҒC,CH PI
P°PSP°PjPSPμP·C— PsCҒC,PsCfC,P°C,PëC±PSCf P°CҒC,PμCҒC—P°P»CHPSCf
PiC—PiPsC,PμPSP·C—CҒ.

P°CfC,P°C,,PsCҒCf PiCҒPsC,PëPiPsPeP°P·P°PSPëPNë C...PIPsCҒPëPj P· C,CҒPҒPePsCҒ
PiPμC±C—PSPePsPIPsCҒ PSPμPrPsCfC,P°C,PSC—CfC,CҒ.

***P°P·P°C°PjPsPrC—CҒ P· C—PSCëPëPjPë P»C—PeP°CҒCfCHPePëPjPë P·P°CfPsP±P°PjPë C,P°
C—PSCëC— PIPëPrPë PIP·P°C°PjPsPrC—PNë.***

P°PsCfP»C—PrPҒPμPSPSCҒ PIP·P°C°PjPsPrC—C— PePsPjP±C—PSPsPIP°PSPsPiPs

ΠίτῃPμΠίP°CῃP°C,Cr P· C-PSC€ΠέPjΠέ P»C-PeP°CῃCfCῃPeΠέPjΠέ P·P°CfPsP±P°PjΠέ
PSPμ ΠίCῃPsPIPSPPrΠέP»ΠέCfCῃ. P''P°P»C- ΠίPsPrP°PSPs PSP°CῃPIPSCr
C-PSC,,PsCῃPjP°C†C-Cῃ ΠίCῃPs PsPeCῃPμPjC- PePsPjΠίPsPSPμPSC,Pέ
P»C-PeP°CῃCfCῃPePsPiPs P·P°CfPsP±Cf. P''CzC,P°CfC,PμCῃPέPr

P''P»Cῃ PsP·PSP°PNεPsPjP»PμPSPSCῃ P· C-PSC,,PsCῃPjP°C†C-C''Cῃ ΠίCῃPs
P·PSPέP¶PμPSPSCῃ CῃC-PIPSῃ ΠίCῃPsCfC,P°C,-CfΠίPμC†ΠέC,,C-C†PSPsPiPs
P°PSC,PέΠiPμPSCr (PSA) Πi CfΠέCῃPsPIP°C,C†C- PeCῃPsPIC- ΠiC-Pr C†P°Cf
P»C-PeCfPIP°PSPSCῃ PrCfC,P°CfC,PμCῃPέPrPsPj C,P° P·
CῃPμPePsPjPμPSPPrP°C†C-CῃPjΠέ C%oPsPrPs ΠiΠέCῃPIP»PμPSPSCῃ CῃP°PeCf
ΠiPμCῃPμPrPjC-C...CrCῃPsIPsC— P·P°P»PsP·Πέ PrΠέΠi. CῃPsP·PrC-P»
B«PhCfPsP±P»ΠέΠiPsCfC,C- P·P°CfC,PSCfCfPIP°PSPSCῃB».

P'ΠiP»ΠέΠi C-PSC€ΠέC... P»C-PeP°CῃCfCῃPeΠέC... P·P°CfPsP±C-Πi PSP°
C,,P°CῃPjP°PePsPeC-PSPμC,PέPeCz PrCzC,P°CfC,PμCῃPέPrCz

P—P°CfC,PSCfCzPIP°PSPSCῃ CῃP°P·PsPj P· C-PSPiC-P±C-C,PSCῃP°PjΠέ CYP3A4 C,P°/P°P±Ps P-
ΠiP»C-PePsΠiCῃPsC,PμC—PSCz

P''CfC,P°CfC,PμCῃPέPr ΠiΠέΠiPsPrΠέC,CῃCfCῃ ΠiPμCῃPμPIP°P¶PSPs C€P»CῃC...PsPj
PjPμC,P°P±PsP»C-P·PjCr. P''PsCfP»C-PrP¶PμPSPSCῃ in vitro ΠiPsPeP°P·CfCῃC,Cῃ,
C%oPs PeP°C,P°P»C-P·P°C,PSCῃP°PjΠέ PjPμC,P°P±PsP»C-P·PjCr C'' CYP3A4 C- CYP3A5.
PhC,,C-C†C-PNεPSC- PrPsCfP»C-PrP¶PμPSPSCῃ ΠiP·P°C''PjPsPrC-C— P·
P°PeC,PέΠiPSPέPjΠέ C-PSPiC-P±C-C,PSCῃP°PjΠέ CYP3A4 PSPμ
ΠiCῃPsPIPSPPrΠέP»ΠέCfCῃ. PμCῃPsC,Pμ Πi PrPsCfP»C-PrP¶PμPSPSC-
ΠiPsΠiCfP»CῃC†C-PNεPSPsC— C,,P°CῃPjP°PePsPeC-PSPμC,PέPeΠέ
PePsPSC†PμPSC,CῃP°C†C-C— PrCfC,P°CfC,PμCῃPέPrCr Πi CfΠέCῃPsPIP°C,C†C-
PeCῃPsPIC- P±CfP»Πέ Πi CfPμCῃPμPrPSCῃPsPjCr Πi 1,6Bῃ"1,8 CῃP°P·P°
ΠiΠέC%oΠέPjΠέ Cr PSPμΠiPμP»ΠέPePsC— PeC-P»CῃPePsCfC,C- C,PέC...
ΠiP°C†C-C''PSC,C-Πi, CῃPeC- PsPrPSPsC†P°CfPSPs P»C-PeCfPIP°P»ΠέCfCῃ
ΠiPμCῃP°ΠiP°PjC-P»PsPj P°P±Ps PrΠέP»C,C-P°P·PμPjPsPj (ΠiPsPjC-CῃPSC-
C-PSPiC-P±C-C,PSCῃPέ CYP3A4 C,P° C-PSPiC-P±C-C,PSCῃPέ P-
ΠiP»C-PePsΠiCῃPsC,PμC—PSCr), PSC-P¶ Cr C-PSC€ΠέC... ΠiP°C†C-C''PSC,C-Πi.

PμCῃPέ PrPsΠiPiPsCfC,CῃPsPePsPIPSPjCr P·P°CfC,PSCfCfPIP°PSPSC-
PePsPjP±C-PSP°C†C-C— PrCfC,P°CfC,PμCῃPέPrCr P· P»C-PeP°CῃCfCῃPeΠέPjΠέ
P·P°CfPsP±P°PjΠέ, CῃPeC- C'' CfΠέP»CῃPSPsPrC-CῃC†ΠέPjΠέ
C-PSPiC-P±C-C,PSCῃP°PjΠέ C,,PμCῃPjPμPSC,Cr CYP3A4 (PSP°ΠiCῃPέPeP»P°Pr,
CῃPέC,PSPSP°PIC-Cῃ, C-PSPrΠέPSP°PIC-Cῃ, PSPμC,,P°P·PsPrPsPS,
C-C,CῃP°PePsPSP°P·PsP», PePμC,PSPePsPSP°P·PsP», CῃPeC- ΠiΠiPsPrΠέP»Πέ
ΠiPμCῃPsCῃP°P»CῃPSPs), PePsPSC†PμPSC,CῃP°C†C-Cῃ PrCfC,P°CfC,PμCῃPέPrCr Πi
CfΠέCῃPsPIP°C,C†C- PeCῃPsPIC- PjPsP¶Pμ ΠiC-PrΠiΠέC%oCrPIP°C,ΠέCfCῃ.
PμPsPrP°P»CῃC€Pμ C-PSPiC-P±CfPIP°PSPSCῃ 5α-CῃPμPrCrPeC,P°P·Πέ ΠiCῃPέ
ΠiC-PrCfΠέP»PμPSC-PNε PrC-C— PrCfC,P°CfC,PμCῃPέPrCr C''
PjP°P»PsPNεPjPsPIC-CῃPSPέPj. PhP»Pμ PjPsP¶P»ΠέΠiPμ P·PjPμPSC€PμPSPSCῃ
C†P°CfC,PSC,Pέ ΠiΠiPμPrPμPSPSCῃ PrPsP· PrCfC,P°CfC,PμCῃPέPrCr Cr CῃP°P·C-
CῃPsP·ΠiΠέC,PeCf ΠiPsP±C-C†PSPέC... PμC,,PμPeC,C-Πi. Pj CῃP°P·C-
ΠiCῃPέΠiPSC-C†PμPSPSCῃ P°PeC,PέΠiPSPSCfC,C- C,,PμCῃPjPμPSC,Cr PrPsΠiPiΠέPNε

PiPμC7C-PsPr PSP°PiC-PIPIPēPIPμPrPμPSPSCΠ PjPsP¶Pμ CÍC,P°C,Pē C%Pμ
PrPsPICεPēPj C- CÍCrPiCrC,PSCΠ C,PμC7P°PiC-Cl PjPsP¶Pμ Cr C,P°PePsPjCr
PIPēPiP°PrPeCr C,C7PēPIP°C,Pē PiPsPSP°Pr 6 PjC-CÍClC†C-PI PrPs C,PsPiPs, ClPe
P±CrPrPμ PrPsCÍClPiPSCrC,Ps PSPsPIPsC— C7C-PIPSsPIP°P¶PSPsC—
PePsPSC†PμPSC,C7P°C†C-C—.

P—P°CÍC,PsCÍCrPIP°PSPSCΠ 12 Pi C...PsP»PμCÍC,PēC7P°PjC-PSCr C†PμC7PμP· 1
PiPsPrPēPSCr PiC-CÍP»Cl P·P°CÍC,PsCÍCrPIP°PSPSCΠ PsPrPSPsC7P°P·PsPIPsC—
PrPsP·Pē 5 PjPi PrCrC,P°CÍC,PμC7PēPrCr PSPμ PIPiP»PēPIP°P»Ps PSP°
C„P°C7PjP°PePsPeC-PSPμC,PēPeCr PrCrC,P°CÍC,PμC7PēPrCr.

*P'PiP»PēPI PrCžC,P°CÍC,PμC7PēPrCž PSP° C„P°C7PjP°PePsPeC-PSPμC,PēPeCž C-PSCεPēC...
P»C-PeP°C7CÍCHPePēC... P·P°CÍPsP±C-PI*

PJ PSPμPIPμP»PēPePsPjCr PrPsCÍP»C-PrP¶PμPSPSC- (n=24) C,C7PēPIP°P»C-CÍC,C7 Cr
PrPIP° C,PēP¶PSC- P·P° CrC†P°CÍC,C7 P·PrPsC7PsPIPēC... C†PsP»PsPIC-PeC-PI-
PrPsP±C7PsPIPsP»CHC†C-PI PrCrC,P°CÍC,PμC7PēPr (0,5 PjPi PSP° PrPsP±Cr) PSPμ
PIPiP»PēPIP°PI PSP° C„P°C7PjP°PePsPeC-PSPμC,PēPeCr C,P°PjCÍCrP»PsP·PēPSCr
P°P±Ps C,PμC7P°P·PsP·PēPSCr. PJ C†CHPsPjCr PrPsCÍP»C-PrP¶PμPSPSC- C,P°PePsP¶
PSPμ P±CrP»Ps PIPēClPIP»PμPSPs PsP·PSP°Pe C„P°C7PjP°PePsPrPēPSP°PjC-C†PSPsC—
PIP·P°C”PjPsPrC-C—.

P”CrC,P°CÍC,PμC7PēPr PSPμ PIPiP»PēPIP°C” PSP° C„P°C7PjP°PePsPeC-PSPμC,PēPeCr
PIP°C7C„P°C7PēPSCr P°P±Ps PrPēPiPsPeCÍPēPSCr. PiPμ PIPeP°P·CrC” PSP° C,Pμ, C%Ps
PrCrC,P°CÍC,PμC7PēPr PSPμ C-PSPiC-P±CrC”/PSPμ C-PSPrCrPeCrC”
P°PeC,PēPIPSC-CÍC,C7 C„PμC7PjPμPSC,Cr CYP2C9 P°P±Ps P -
PiP»C-PePsPiC7PsC,PμC—PSCr- PiPμC7PμPSPsCÍPSPēPeP°. P”P°PSC-
PrPsCÍP»C-PrP¶PμPSC7 PIP·P°C”PjPsPrC-C— *in vitro* PIPeP°P·CrC7C,C7 PSP° C,Pμ,
C%Ps PrCrC,P°CÍC,PμC7PēPr PSPμ C-PSPiC-P±CrC” C„PμC7PjPμPSC,Pē CYP1A2,
CYP2D6, CYP2C9, CYP2C19 P°P±Ps CYP3A4.

PjP°PjCÍCžP»PsP·PēPS

PhPrPSPsC†P°CÍPSPμ P·P°CÍC,PsCÍCrPIP°PSPSCΠ C,P°PjCÍCrP»PsP·PēPSCr
PiC-PrC7PsC...P»PsC7PēPrCr P· P»C-PeP°C7CÍCHPePēPjPē P·P°CÍPsP±P°PjPē, ClPeC-
PjPsP¶CrC,C7 P·PSPēP¶CrPIP°C,Pē P°C7C,PμC7C-P°P»CHPSPēPμ C,PēCÍPe, Cr
C,PsPjCr C†PēCÍP»C- C7P°P·PsPj P·C- P·PSPμP±PsP»C7PIP°P»CHPSPēPjPē
P»C-PeP°C7CÍCHPePēPjPē P·P°CÍPsP±P°PjPē, C-PSPiC-P±C-C,PsC7P°PjPē 5-
C„PsCÍC„PsPrC-PμCÍC,PμC7P°P·Pē C,P° C-PSCεPēPjPē α-1-
P°PrC7PμPSPsP±P»PsPeP°C,PsC7P°PjPē PjPsP¶Pμ C,PμPsC7PμC,PēC†PSPs
PiC7PēP·PIPsPrPēC,Pē PrPs PiPsCÍPēP»PμPSPsC— PiC-PiPsC,PμPSP·PēPIPSsC—
PrC-C—. PjPsPjCr P”CrC,P°C„PsC7CÍ PSPμ CÍP»C-Pr P·P°CÍC,PsCÍPsPICrPIP°C,Pē Cr
PePsPjP±C-PSP°C†C-C— P· C-PSCεPēPjPē α-1-P°PrC7PμPSPsP±P»PsPeP°C,PsC7P°PjPē.

PhPrPSPsC†P°CÍPSPμ P·P°CÍC,PsCÍCrPIP°PSPSCΠ C,P°PjCÍCrP»PsP·PēPSCr
PiC-PrC7PsC...P»PsC7PēPrCr C,P° PePμC,PsPePsPSP°P·PsP»Cr (CÍPēP»CHPSPsPiPs
C-PSPiC-P±C-C,PsC7P° CYP3A4) P·P±C-P»CHCεCrC” Pj_{max} C,P° AUC
C,P°PjCÍCrP»PsP·PēPSCr PiC-PrC7PsC...P»PsC7PēPrCr Cr 2,2 C,P° 2,8 C7P°P·P°

PIC-PrPiPsPIC-PrPSPs.

PŸCfPjC-CfPSPµ P·P°CfC,PsCfCfPIP°PSPSCµ C,P°PjCfCfP»PsP·PëPSCf
PiC-PrCfPsC...P»PsCfPëPrCf C,P° PiP°CfPsPeCfPµC,PëPSCf (CfPëP»CHbPSPsPiPs
C-PSPiC-P±C-C,PsCfP° CYP2D6) P·P±C-P»CHbC€CfC" PŸ_{max} C,P° AUC
C,P°PjCfCfP»PsP·PëPSCf PiC-PrCfPsC...P»PsCfPëPrCf Cf 1,3 C,P° 1,6 CfP°P·P°
PIC-PrPiPsPIC-PrPSPs. PhPSP°P»PsPiC-CfPSPµ P·P±C-P»CHbC€PµPSPSCµ
PsCfC-PeCfC"C,CHbCfCµ Cf PiP°CfC-C"PSC,C-PI P·C- CfP»P°P±PePëPj
PjPµC,P°P±PsP»C-P·PjPsPj CYP2D6 PiPsCfC-PIPSCµPSPs P· C,P°PePëPjPë P·
C-PSC,PµPSCfPëPIPSPëPj PjPµC,P°P±PsP»C-P·PjPsPj PiCfPë CfCfPjC-CfPSPsPjCf
P·P°CfC,PsCfCfPIP°PSPSC- P·C- CfPëP»CHbPSPëPjPë C-PSPiC-P±C-C,PsCfP°PjPë
CYP3A4.

P·C,,PµPeC, CfCfPjC-CfPSPsPiPs P·P°CfC,PsCfCfPIP°PSPSCµ PsP±PsC...
C-PSPiC-P±C-C,PsCfC-PI CYP3A4 C,P° C-PSPiC-P±C-C,PsCfC-PI CYP2D6 P·
C,P°PjCfCfP»PsP·PëPSPsPj PeP»C-PSC-CfPSPs PSPµ PrPsCfP»C-PrP¶CfPIP°PICfCµ,
PsPrPSP°Pe PiPsC,PµPSCfC-PNëPSPs PjPsP¶Pµ CfCfC,C,C"PiPs
P·P±C-P»CHbC€CfPIP°C,PëCfCµ PePsPSCfPµPSC,CfP°CfC-Cµ C,P°PjCfCfP»PsP·PëPSCf
(PrPëPI. CfPsP·PrC-P» B«PhCfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfCfPIP°PSPSCµB»).

PhPrPSPsCfP°CfPSPµ P·P°CfC,PsCfCfPIP°PSPSCµ C,P°PjCfCfP»PsP·PëPSCf
PiC-PrCfPsC...P»PsCfPëPrCf (0,4 PjPi) C- CfPëPjPµC,PëPrPëPSCf (400 PjPi PePsP¶PSC-
6 PiPsPrPëPS PiCfPsC,CµPiPsPj 6 PrPSC-PI) PiCfPëP·PIPsPrPëP»Ps PrPs
P·PSPëP¶PµPSPSCµ PeP»C-CfPµPSCfCf (26 %) C- P·P±C-P»CHbC€PµPSPSCµ AUC (44
%) C,P°PjCfCfP»PsP·PëPSCf PiC-PrCfPsC...P»PsCfPëPrCf. P>C-PeP°CfCfCHbPePëPNë
P·P°CfC-P± P"CfC,P°C,,PsCfCf CfP»C-Pr P· PsP±PµCfPµP¶PSC-CfC,Cf
P·P°CfC,PsCfPsPICfPIP°C,Pë Cf PePsPjP±C-PSP°CfC-C— P· CfPëPjPµC,PëPrPëPSPsPj.

P'PëCfPµCfPiPSPµ PrPsCfP»C-PrP¶PµPSPSCµ PIP·P°C"PjPsPrC-C—
C,P°PjCfCfP»PsP·PëPSCf PiC-PrCfPsC...P»PsCfPëPrCf C- PIP°CfC,,P°CfPëPSCf PSPµ
PiCfPsPIPsPrPëP»PsCfCµ. P PµP·CfP»CHbC,P°C,Pë PsP±PjPµP¶PµPSPëC...
PrPsCfP»C-PrP¶PµPSCb *in vitro* C,P° *in vivo* C" PSPµPrPsCfC,P°C,PSC-PjPë. P—
PsP±PµCfPµP¶PSC-CfC,Cf CfP»C-Pr PiCfPsPIPsPrPëC,Pë PsPrPSPsCfP°CfPSPµ
P»C-PeCfPIP°PSPSCµ PIP°CfC,,P°CfPëPSPsPj C- C,P°PjCfCfP»PsP·PëPSCf
PiC-PrCfPsC...P»PsCfPëPrPsPj.

PkC-CµPePsC— PIP·P°C"PjPsPrC-C— PSPµ CfPiPsCfC,PµCfC-PiP°P»PsCfCµ, PePsP»Pë
C,P°PjCfCfP»PsP·PëPSCf PiC-PrCfPsC...P»PsCfPëPr PIPsPrPëP»Pë
PsPrPSPsCfP°CfPSPs P· P°C,PµPSPsP»PsP»PsPj P°P±Ps PµPSP°P»P°PiCfPëP»PsPj,
P°P±Ps PSC-C,,PµPrPëPiC-PSPsPj, P°P±Ps C,PµPsC,,C-P»C-PSPsPj. PhPrPSPsCfP°CfPSPµ
P·P°CfC,PsCfCfPIP°PSPSCµ C,,CfCfPsCfPµPjC-PrCf PiCfPëP·PIPsPrPëC,CHb PrPs
P·PSPëP¶PµPSPSCµ CfC-PIPSCµ C,P°PjCfCfP»PsP·PëPSCf PI CfPëCfPsPIP°C,CfC-
PeCfPsPIC-, P°P»Pµ, PsCfPeC-P»CHbPePë CfC- CfC-PIPSC- P·P°P»PëC€P°CfC,CHbCfCµ
Cf PjPµP¶P°C... PSPsCfPjP°P»CHbPSPsPiPs PrC-P°PiP°P·PsPSCf, PePsCfPµPeCfC-Cµ
PrPsP·Pë PSPµ PiPsC,CfC-P±PSP°.

P' CfPjPsPIP°C... *in vitro* PSC- PrC-P°P·PµPiP°Pj, PSC- PiCfPsPiCfP°PSPsP»PsP», PSC-
C,CfPëC...P»PsCfPjPµC,C-P°P·PëPr, PSC- C...P»PsCfPjP°PrPëPSPsPS, PSC-

P°PjC-C, CḡPëPīC, PëP»C-PS, PSC- PrPëPeP»PsC,, PμPSP°Pe, PSC-
PiP»C-P±PμPSPeP»P°PjC-Pr, PSC- CḡPëPjPIP°CḡC, P°C, PëPS PSPμ P·PjC-PSCḡCḡC, Cḡ
PIC-P»CḡPSCḡ C,, CḡP°PeC†C-Cḡ C, P°PjCḡCḡP»PsP·PëPSCḡ Cḡ PīP»P°P·PjC- PeCḡPsPIC-
P»CḡPrPëPSPë. PḡP°PjCḡCḡP»PsP·PëPS C, P°PePsPḡ PSPμ P·PjC-PSCḡC” PIC-P»CḡPSC-
C,, CḡP°PeC†C-C— PrC-P°P·PμPīP°PjCḡ, PīCḡPsPīCḡP°PSPsP»PsP»Cḡ,
C, CḡPëC...P»PsCḡPjPμC, C-P°P·PëPrCḡ C- C...P»PsCḡPjP°PrPëPSPsPSCḡ.

PḡC-CḡPePsC— PIP·P°C”PjPsPrC-C— PSP° CḡC-PIPSC- PīPμC†C-PSPePsPIPsPiPs
PjPμC, P°P±PsP»C-P·PjCḡ PSPμ CḡPīPsCḡC, PμCḡC-PiP°P»PsCḡCḡ PīC-Pr C†P°Cḡ
PrPsCḡP»C-PrPḡPμPSCḡ *in vitro* P·PjC-PeCḡPsCḡPsPjP°P»CḡPSPëPjPë
C,, CḡP°PeC†C-CḡPjPë PīPμC†C-PSPePë (PīPsPeP°P·PsPIPsCḡ C” CḡPëCḡC, PμPjP°
PīPsPIBḡ™ CḡP·P°PSPëC... C-P·C†PëC, PsC...CḡPsPjPsPj P 450 C,, PμCḡPjPμPSC, C-PI,
C%oPs PjPμC, P°P±PsP»C-P·CḡCḡC, Cḡ P»C-PeP°CḡCḡCḡPeC- P·P°CḡPsP±Pë) C-P·
P·P°CḡC, PsCḡCḡPIP°PSPSCḡPj P°PjC-C, CḡPëPīC, PëP»C-PSCḡ,
CḡP°P»CḡP±CḡC, P°PjPsP»Cḡ C- PiP»C-P±PμPSPeP»P°PjC-PrCḡ. PḡCḡPsC, Pμ
PrPëPeP»PsC,, PμPSP°Pe PjPsPḡPμ PīC-PrPIPëC%oCḡPIP°C, Pë CḡPIPëPrPeC-CḡC, Cḡ
PIPëPIPμPrPμPSPSCḡ C, P°PjCḡCḡP»PsP·PëPSCḡ.

PhCḡPsP±P»PëPIPsCḡC, C- P·P°CḡC, PsCḡCḡPIP°PSPSCḡ.

PḡPsPjP±C-PSPsPIP°PSCḡ C, PμCḡP°PīC-Cḡ PīCḡPëP·PSP°C†P°CḡC, Cḡ PīC-CḡP»Cḡ
CḡPμC, PμP»CḡPSPsPiPs P°PSP°P»C-P·Cḡ CḡPīC-PIPIC-PrPSPsCḡPμPSPSCḡ
PePsCḡPëCḡC, Cḡ/CḡPëP·PëPe Cḡ P·PIBḡ™ CḡP·PeCḡ P·PīPsC, PμPSC†C-PNḡPSPëPj
P·P±C-P»CḡCḡPμPSPSCḡPj CḡPëP·PëPeCḡ PīPsP±C-C†PSPëC... CḡPμP°PeC†C-PNḡ
(PIPeP»CḡC†P°CḡC†Pë CḡPμCḡC†PμPICḡ PSPμPrPsCḡC, P°C, PSC-CḡC, Cḡ) C, P°
PIPëPIC†PμPSPSCḡ PIP°CḡC-P°PSC, C-PI P°P»CḡC, PμCḡPSP°C, PëPIPSPsPiPs
P»C-PeCḡPIP°PSPSCḡ, PIPeP»CḡC†P°CḡC†Pë PjPsPSPsC, PμCḡP°PīC-Cḡ.

PμPsP±C-C†PSC- CḡPμP°PeC†C-C— P·P±PsPeCḡ CḡPμCḡC†PμPIPs-CḡCḡPrPëPSPSPsC—
CḡPëCḡC, PμPjPë

P—P° PrP°PSPëPjPë PrPIPsC... 4-CḡC-C†PSPëC... PeP»C-PSC-C†PSPëC...
PrPsCḡP»C-PrPḡPμPSCḡ, C†P°CḡC, PsC, P° PIPëPSPëPePSPμPSPSCḡ CḡPμCḡC†PμPIPsC—
PSPμPrPsCḡC, P°C, PSPsCḡC, C- (PePsPjP±C-PSPsPIP°PSPëPNḡ C, PμCḡPjC-PS PrP»Cḡ PICḡC-C...
PīPsPIC-PrPsPjP»PμPSCḡ, PīPsP»PsPIPsPëPj C†PëPSPsPj CḡPμCḡC†PμPIPsC—
PSPμPrPsCḡC, P°C, PSPsCḡC, C- C, P° P·P°CḡC, C-PNḡPSPsC— CḡPμCḡC†PμPIPsC—
PSPμPrPsCḡC, P°C, PSPsCḡC, C-) P±CḡP»P° PIPëC%oPsCḡ Cḡ PsCḡC-P±, CḡPeC-
P»C-PeCḡPIP°P»PëCḡCḡ PePsPjP±C-PSP°C†C-C”Cḡ PrCḡC, P°CḡC, PμCḡPëPrCḡ P·α-
P±P»PsPeP°C, PsCḡPsPj, PīPsP»PsPIPsPëPj C†PëPSPsPj C, P°PjCḡCḡP»PsP·PëPSPsPj,
PīPsCḡC-PIPSCḡPSPs P·PsCḡPsP±P°PjPë, CḡPeC- PSPμ P»C-PeCḡPIP°P»PëCḡCḡ C, P°PePsCḡ
PePsPjP±C-PSP°C†C-C”Cḡ. PḡP°CḡC, PsC, P° CḡPμCḡC†PμPIPsC— PSPμPrPsCḡC, P°C, PSPsCḡC, C-
P±CḡP»P° PSPëP·CḡPePsCḡ (≤1 %) C, P° PIP°CḡC-P°P±PμP»CḡPSPsCḡ Cḡ PjPμPḡP°C... C†PëC...
PrPsCḡP»C-PrPḡPμPSCḡ. P”PëCḡPīCḡPsPīPsCḡC†C— Cḡ C†P°CḡC, PsC, C-
PIPëPSPëPePSPμPSPSCḡ CḡPμCḡC†PμPIPs-CḡCḡPrPëPSPSPëC... PīPsP±C-C†PSPëC... CḡPIPëC%
PSPμPjP°C” Cḡ PḡPsPrPSPsPjCḡ P·PrPsCḡP»C-PrPḡPμPSCḡ. PḡCḡPëC†PëPSPSPsPiPs
PIP·P°C”PjPsP·PIBḡ™ CḡP·PeCḡ PjC-Pḡ P·P°CḡC, PsCḡCḡPIP°PSPSCḡPj PrCḡC, P°CḡC, PμCḡPëPrCḡ
(PsPeCḡPμPjPs P°P±Ps Cḡ PePsPjP±C-PSP°C†C-C— P·α-P±P»PsPeP°C, PsCḡP°PjPë) C, P°
PIPëPSPëPePSPμPSPSCḡPj CḡPμCḡC†PμPIPsC— PSPμPrPsCḡC, P°C, PSPsCḡC, C-

PICÍC,P°PSPsPIP»PμPSPs PSpμ P±CfP»Ps (PrPëPI. CḡPsP·PrC-P»
B«PαP°CḡPjP°PePsP»PsPiC-C±PSC- PIP»P°CÍC,PëPIPsCÍC,C-B»).

PμCḡPsPIPμPrPμPSPs PjPμC,P°P°PSP°P»C-P· 12 CḡP°PSPrPsPjC-P·PsPIP°PSPëC...,
PİP»P°C†PμP±Ps- P°P±Ps PİPsCḡC-PIPsCİP»CHbPSPëC... PePsPSC,CḡPsP»CHbPsPIP°PSPëC...
PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PμPSCḡ (n=18802), CÍ CİPPePsPjCÍ
PsC†C-PSCḡPIP°P»Pë CḡPëP·PëPe CḡPsP·PIPëC,PeCÍ PİPsP±C-C±PSPëC... CḡPμP°PeC†C-PNë P·
P±PsPeCÍ

CÍPμCḡC†PμPIPs-CÍCÍPrPëPSPSPsC— CÍPëCÍC,PμPjPë PİCḡPë P·P°CÍC,PsCÍCÍPIP°PSPSC-
PrCÍC,P°CÍC,PμCḡPëPrCÍ (PİPsCḡC-PIPsCİPSPs P· PePsPSC,CḡPsP»CHbPSPsCḡ PİCḡCÍPİPsCḡ).
PḡPμ P±CfP»Ps PICÍC,P°PSPsPIP»PμPSPs CÍC,C-PNëPePsPİPs CÍC,P°C,PëCÍC,PëC±PSPs
P·PSP°C±CÍC%PsPİPs P·P±C-P»CHbC€PμPSPSCİ CḡPëP·PëPeCÍ CÍPμCḡC†PμPIPsC—
PSPμPrPsCÍC,P°C,PSPsCÍC,C- (RR 1,05; 95 % P”P† 0,71, 1,57), PİPsCÍC,CḡPsPİPs
C-PSC,,P°CḡPeC,CÍ PjC-PsPeP°CḡPrP° (RR 1,00; 95 % P”P† 0,77, 1,30) P°P±Ps
C-PSCÍCÍP»CHbC,CÍ (RR 1,20; 95 % P”P† 0,88, 1,64).

P P°Pe PİPμCḡPμPrPjC-C...CÍCḡPsPIPsC— P·P°P»PsP·Pë C,P° PİCÍC...P»PëPSPë PIPëCÍPsPePsPİPs
CÍC,CÍPİPμPSCİ PİCḡP°PrP°C†C-C— P·P° P“C-CÍPsPSPsPj (PSPëP·CHbPePs-
PrPëC,,PμCḡPμPSC†C-PNëPsPIP°PSC-)

Pj PİCḡPsC†PμCÍC- 4-CḡC-C±PSPsPİPs PeP»C-PSC-C±PSPsPİPs PrPsCÍP»C-PrP¶PμPSPSCİ P·P°
CÍC±P°CÍC,Cḡ > 8000 C±PsP»PsPIC-PeC-PI PIC-PePsPj PIC-Pr 50 PrPs 75 CḡPsPeC-PI P·
PİPsPİPμCḡPμPrPSCḡPsCḡ PSPμPİP°C,PëPIPsPSCḡ P±C-PsPİCÍC-C”Cḡ PSP° CḡP°Pe
PİPμCḡPμPrPjC-C...CÍCḡPsPIPsC— P·P°P»PsP·Pë C,P° C,,PsPSPsPIPëPj CḡC-PIPsPμPj PSA PjC-P¶
2,5 PSPi/PjP» C,P° 10,0 PSPi/PjP» (PrPsCÍP»C-PrP¶PμPSPSCİ REDUCE) CÍ 1517
C±PsP»PsPIC-PeC-PI P±CfP»Ps PrC-P°PİPsPSCÍC,PsPIP°PSPs CḡP°Pe
PİPμCḡPμPrPjC-C...CÍCḡPsPIPsC— P·P°P»PsP·Pë. P’C-PrP·PSP°C±P°P»P°CÍCḡ PIPëC%P°
C±P°CÍC,PsC,P° PIPëPSPëPePSPμPSPSCİ CḡP°PeCÍ PİPμCḡPμPrPjC-C...CÍCḡPsPIPsC—
P·P°P»PsP·Pë P· PrPëC,,PμCḡPμPSC†C-CḡPIP°PSPSCİPj 8Bḡ“10 P±P°P»C-PI P·P° C€PeP°P»PsCḡ
P“P»C-CÍPsPSP° CÍ PİCḡCÍPİC- PrCÍC,P°CÍC,PμCḡPëPrCÍ (n=29, 0,9 %) PİPsCḡC-PIPsCİPSPs
P· PİCḡCÍPİPsCḡ PİP»P°C†PμP±Ps (n=19, 0,6 %). PμCḡPëC±PëPSPSPsPİPs
PIP·P°C”PjPsP·PİBḡ™ CİP·PeCÍ PjC-P¶ P·P°CÍC,PsCÍCÍPIP°PSPSCİPj PrCÍC,P°CÍC,PμCḡPëPrCÍ
C,P° PIPëPSPëPePSPμPSPSCİPj PSPëP·CHbPePsPrPëC,,PμCḡPμPSC†C-PNëPsPIP°PSPsPİPs
CḡP°PeCÍ PİPμCḡPμPrPjC-C...CÍCḡPsPIPsC— P·P°P»PsP·Pë PICÍC,P°PSPsPIP»PμPSPs PSpμ
P±CfP»Ps. PḡP»C-PSC-C±PSP° P·PSP°C±CÍC%C-CÍC,Cḡ C†PëC,,CḡPsPIPsPİPs
PrPëCÍP±P°P»P°PSCÍCÍ PSPμ PICÍC,P°PSPsPIP»PμPSP°.

PḡPsP»PsPIC-PePë, CİPPeC- P·P°CÍC,PsCÍPsPICÍCḡC,Cḡ P”CÍC,P°C,,PsCḡCÍ, PjP°CḡC,Cḡ
CḡPμPİCÍP»CİCḡPSPs PİCḡPsC...PsPrPëC,Pë PsP±CÍC,PμP¶PμPSPSCİ C%PsPrPs
PIPëP·PSP°C±PμPSPSCİ CḡPëP·PëPeCÍ CḡPsP·PIPëC,PeCÍ CḡP°PeCÍ
PİPμCḡPμPrPjC-C...CÍCḡPsPIPsC— P·P°P»PsP·Pë, PİPeP»CḡC±P°CḡC±Pë C,PμCÍC, PSP°
PİCḡPsCÍC,P°C,-CÍPİPμC†PëC,,C-C±PSPëPNë P°PSC,PëPİPμPS.

Pj PrPsPrP°C,PePsPIPsPjCÍ PİPsCÍP»C-PrPsPIPsPSPsPjCÍ 2-CḡC-C±PSPsPjCÍ
CÍPİPsCÍC,PμCḡPμP¶PμPSPSC- PsCḡPëPİC-PSP°P»CHbPSPëC... PİP°C†C-C”PSC,C-PI PİCḡPë
P·P°CÍC,PsCÍCÍPIP°PSPSC- PrCÍC,P°CÍC,PμCḡPëPrCÍ P· PjPμC,PsCḡ C...C-PjC-C±PSPsC—
PİCḡPsC,,C-P»P°PeC,PëPePë (PrPsCÍP»C-PrP¶PμPSPSCİ REDUCE) P±CfP»P°
PICÍC,P°PSPsPIP»PμPSP° PSPëP·CHbPeP° C±P°CÍC,PsC,P° PSPsPIPëC... PIPëPİP°PrPeC-PI
CḡP°PeCÍ PİPμCḡPμPrPjC-C...CÍCḡPsPIPsC— P·P°P»PsP·Pë (PİCḡCÍPİP°
PrCÍC,P°CÍC,PμCḡPëPrCÍ [n=14, 1,2 %]) C,P° PİCḡCÍPİP° PİP»P°C†PμP±Ps [n=7, 0,7 %]) P·
PIC-PrCÍCÍC,PSC-CÍC,Cḡ PSPsPIPëC... C-PrPμPSC,PëC,,C-PePsPIP°PSPëC... PIPëPİP°PrPeC-PI

СҗР°РєСр ПРмСҗРмРРРјС-С...СрСҗРсРРсС— Р·Р°Р»РсР·Рө Р·
РРРөС,,РмСҗРмРсС†С-СҗРРР°РсРсСј 8вҗ“10 Р±Р°Р»С-РР Р·Р° С€РєР°Р°Р»РсСҗ
Р”Р»С-СҗРсРсР°.

Р”РсРРРсС,СҗРөРРР°Р»Рм РРсСҗР»С-РРсРРсРм (РРс 18 СҗРсРєС-РР)
СҗРРсСҗС,РмСҗРмР¶РмРсРсС РР°С†С-С”РсС,С-РР РєР»С-РсС-СҗРсРРс
РРсСҗР»С-РРР¶РмРсРсС С-Р· Р·Р°СҗС,РсСҗСрРР°РсРсСј С-РсС€РсРРс
С-РсРС-Р±С-С,РсСҗР° 5α-СҗРмРРРсРєС,Р°Р·Рө (С,,С-РсР°СҗС,РмСҗРөРРс) Р· РјРмС,РсСҗ
С...С-РјС-СҗРсРсС— РРСҗРсС,,С-Р»Р°РєС,РөРөРө РсРм РРсРєР°Р·Р°Р»Рс
СҗС,Р°С,РөСҗС,РөСҗРс Р·РсР°СҗС%РсС— СҗС-Р·РсРөС†С- РјС-Р¶ РРСҗСрРР°РјРө
С,,С-РсР°СҗС,РмСҗРөРРс С,Р° РРР»Р°С†РмР±Рс Ср РРсРєР°Р·Р·РсРөР°...
Р·Р°РРР»Р»Рс РРөРРсРР РРөРРР°РсРсС (HR1,02, 95 % Р”Р† 0,97вҗ“1,08) Р°Р±Рс
РРөРРРРөРРР°РсС РРС-СҗР»Сј РРС-Р°РРсРсСҗС,СрРР°РсССј СҗР°РєС
РРмСҗРмРРРјС-С...СрСҗРсРРсС— Р·Р°Р»РсР·Рө (HR1,01, 95 % Р”Р† 0,85вҗ“1,20).

РРР»РөРР РсР° РРСҗРсСҗС,Р°С,-СҗРРмС†РөС,,С-СҗРсРөР№ Р°РсС,РөРРмРс (РсА)

РлРсРсС†РмРсС,СҗР°С†С-Сј РРСҗРсСҗС,Р°С,-СҗРРмС†РөС,,С-СҗРсРРс Р°РсС,РөРРмРсСр
РРмСҗРмРРРјС-С...СрСҗРсРРсС— Р·Р°Р»РсР·Рө (РсА) С” РРР°Р¶Р»РөРРөРј
РєРсРјРРсРсРсС,РсРј СҗРөСҗРөРсС-РсРсРРсРРс РРСҗРсС†РмСҗСр РРР»Сј
РРөССјРР»РмРсСС СҗР°РєС РРмСҗРмРРРјС-С...СрСҗРсРРсС— Р·Р°Р»РсР·Рө.
Р”СрС,Р°СҗС,РмСҗРөРР Р·РРР°С,РсРөР№ Р·РсРөРРРсР°С,Рө СҗС-РРмРсСҗ
СҗРөСҗРсРР°С,РєРсРРсРРс РРСҗРсСҗС,Р°С,-СҗРРмС†РөС,,С-СҗРсРРс Р°РсС,РөРРмРсСр Ср
С...РРсСҗРөС... РРСҗРөР±Р»РөР·Рс РсР° РсРмСҗРмР· 6 РјС-СҗСјС†С-РР
Р»С-РєСрРР°РсС.

РмР°С†С-С”РсС,Рө, СјРєС- РРСҗРөР№РјРјР°СҗС,Сҗ Р”СрС,Р°С,,РсСҗСҗ, РРсРРөРсРсС-
РјР°С,Рө РсРсРРөР№ РРөС...С-РРсРөР№ СҗС-РРмРсСҗ РсА, РРСҗС,Р°РсРРР»РмРсРөР№
СҗРмСҗРмР· 6 РјС-СҗСјС†С-РР РРС-СҗР»Сј Р»С-РєСрРР°РсССј С†РөРј
РРСҗРмРРР°СҗР°С,РсРј. РќР°РРР»С- С†РмР№ СҗС-РРмРсСҗ
СҗРмРєРсРјРсРсРсРсС,СҗСҗСј РРмСҗРмРРРРС-СҗСјС,Рө СҗРмРРсР»СјСҗРсРс. Р’СрРСҗС-
СјРєРм РРС-РРС,РРмСҗРРР¶РмРсРм Р·Р±С-Р»СҗС€РмРсРсС СҗС-РРсС РсА РРР-
РсР°РөРсР¶РсРРс СҗС-РРсС РРС-РР СҗР°Сҗ Р·Р°СҗС,РсСҗСрРР°РсССј
Р»С-РєР°СҗСҗСҗРєРсРРс Р·Р°СҗРсР±Ср Р”СрС,Р°С,,РсСҗСҗ РјРсР¶Рм Р±СрС,Рө
СҗРРС-РРСРмРсРсСј РсР°СҗРсРсСҗС,С- СҗР°РєС РРмСҗРмРРРјС-С...СрСҗРсРРсС—
Р·Р°Р»РсР·Рө Р°Р±Рс РсРмРРсС,СҗРөРјР°РсРсС СҗРмРРРөРјСр Р»С-РєСрРР°РсССј
Р”СрС,Р°С,,РсСҗСҗРсРј С- РРсС,СҗРмР±СрС” СҗРмС,РмР»СҗРсРРс РРөРРРсРмРсРсС,
РсРРС-С,Сҗ СјРєС%Рс РРсРєР°Р·Р·Рс РсР° Р·РсР°...РсРРСјС,СҗСҗСј Ср
РјРмРР°С... РсРсСҗРө Ср СҗРсР»РсРєС-РєС-РР, СјРєС- РсРм Р»С-РєСрРР°Р»РөРөСҗС
С-РсРС-Р±С-С,РсСҗР°Рө 5α-СҗРмРРРсРєС,Р°Р·Рө. РмСҗРө С-РсС,РмСҗРРРмС,Р°С†С-С—
РРсРєР°Р·Р·РсРөРР РсА Ср С...РРсСҗРөС..., СјРєС- Р»С-РєСрСҗС,СҗСҗСј
Р”СрС,Р°С,,РсСҗСҗРсРј, СҗР»С-РР РРРРР°РсС,Рө РсРө РРсРРмСҗРмРРсС-
РРсРєР°Р·Р·РсРө РсА РРР»Сј РРсСҗС-РРсСјРсРсС.

Р—Р°СҗС,РсСҗСрРР°РсССј Р»С-РєР°СҗСҗСҗРєРсРРсРс Р·Р°СҗРсР±Ср Р”СрС,Р°С,,РсСҗСҗ
РсРм РРРР»РөРРР°С” РсР° РРөРєСҗРөСҗС,Р°РсРсС СҗС-РРсС РРСҗРсСҗС,Р°С,-
СҗРРмС†РөС,,С-СҗРсРРс Р°РсС,РөРРмРсСр РРР»Сј РРС-Р°РРсРсСҗС,РөРөРө СҗР°РєС
РРмСҗРмРРРјС-С...СрСҗРсРРсС— Р·Р°РлРсР·Рө РРС-СҗР»Сј РРСҗС,Р°РсРРР»РмРсССј
Р№РсРРс РсРсРРсРРс РРөС...С-РРсРсРс СҗС-РРсС.

Р—Р°РРРР»Р»Рс СҗС-РРмРсСҗ СҗРөСҗРсРР°С,РєРсРРсРРс РРСҗРсСҗС,Р°С,-
СҗРРмС†РөС,,С-СҗРсРРс Р°РсС,РөРРмРсСр РРсРРмСҗС,Р°С”С,СҗСҗСј РРс

PIPëC...C-PrPSPsPiPs CḡC-PIPSCḡ PiCḡPsC,CḡPiPsPj 6 PjC-CḡCḡCḡC-PI PiC-CḡP»Cḡ
PiCḡPëPiPëPSPµPSPSCḡ P»C-PeCḡPIP°PSPSCḡ.

PŸPiC-PIPIC-PrPSPsC€PµPSPSCḡ P¶ PIC-P»CHPSPsPiPs PiCḡPsCḡC,P°C,-
CḡPiPµCḡPëC,,C-CḡPSPsPiPs P°PSC,PëPiPµPSCḡ C- P·P°PiP°P»CHPSPsPiPs PḡPsPiPs
CḡC-PIPSCḡ P·P°P»PëC€P°C”C,CHCḡCḡ CḡC,P°P»PëPj PSP°PIC-C,CH PiC-Pr CḡP°Cḡ
P·P°CḡC,PSCḡCḡPIP°PSPSCḡ P»C-PeP°CḡCḡCHPePsPiPs P·P°CḡPsP±Cḡ P”CḡC,P°C,,PsCḡCḡ.
PİPeC%oPs PrP»Cḡ PIPëP·PSP°CḡPµPSPSCḡ CḡP°PeCḡ PiPµCḡPµPrPjC-C...CḡCḡPsPiPsC—
P·P°P»PsP·Pë P»C-PeP°Cḡ PIPëCḡC-C€PëC,CH PIPëPePsCḡPëCḡC,P°C,Pë
PIC-PrCḡPsC,PePsPIPëPḡ PiPsPeP°P·PSPëPe PIC-P»CHPSPsPiPs PiCḡPsCḡC,P°C,-
CḡPiPµCḡPëC,,C-CḡPSPsPiPs P°PSC,PëPiPµPSCḡ Cḡ C...PIPsCḡPsPiPs, CḡPePëPḡ
P·P°CḡC,PSCḡCḡPICḡC” P»C-PeP°CḡCḡCHPePëPḡ P·P°CḡC-P± P”CḡC,P°C,,PsCḡCḡ,
PSC-CḡPePsPiPs PePsCḡPµPiCḡPIP°PSPSCḡ PiPsPeP°P·PSPëPeP° PIC-P»CHPSPsPiPs
PiCḡPsCḡC,P°C,-CḡPiPµCḡPëC,,C-CḡPSPsPiPs P°PSC,PëPiPµPSCḡ PiCḡPsPiPsPrPëC,Pë PSPµ
PiPsC,CḡC-P±PSPs.

PµPµCḡPµPr PiPsCḡP°C,PePsPj PeCḡCḡCḡCḡ P»C-PeCḡPIP°PSPSCḡ P”CḡC,P°C,,PsCḡCḡPsPj C,P°
PiPµCḡC-PsPrPëCḡPSPs PiC-Pr CḡP°Cḡ P»C-PeCḡPIP°PSPSCḡ PiP°CḡC-C”PSC,P°Pj C-P·
PrPsP±CḡPsCḡPeC-CḡPSPsCḡ PiC-PiPµCḡPiP»P°P·C-C”Cḡ PiPµCḡPµPrPjC-C...CḡCḡPsPiPsC—
P·P°P»PsP·Pë CḡP»C-Pr CḡPsP±PëC,Pë PiP°P»CHCḡPµPiPµ CḡPµPeC,P°P»CHPSPµ
PsP±CḡC,PµP¶PµPSPSCḡ, P° C,P°PePsP¶ PIPëPePsCḡPëCḡC,PSCḡCḡPIP°C,Pë C-PSC€C-
PjPµC,PsPrPë PIPëCḡPIP»PµPSPSCḡ CḡP°PeCḡ PiPµCḡPµPrPjC-C...CḡCḡPsPiPsC— P·P°P»PsP·Pë.

PḡPëCḡPePsPIP° PSPµPrPsCḡC,P°C,PSC-CḡC,CH

P»C-PeCḡPIP°PSPSCḡ C...PIPsCḡPëC... P· C,CḡP¶PePsCḡ PSPëCḡPePsPiPsCḡ
PSPµPrPsCḡC,P°C,PSC-CḡC,Cḡ (PeP»C-CḡPµPSCḡ PeCḡPµP°C,PëPSC-PSCḡ <10 PjP»/C...PI)
PiPsC,CḡC-P±PSPs PiCḡPsPiPsPrPëC,Pë P· PsP±PµCḡPµP¶PSC-CḡC,Cḡ, PsCḡPeC-P»CHPePë
C,,P°CḡPjP°PePsPeC-PSPµC,PëPeP° PrCḡC,P°CḡC,PµCḡPëPrCḡ Cḡ C,P°PePëC... C...PIPsCḡPëC...
PSPµ PIPëPICḡP°P»P°CḡCḡ.

PḡCḡC,PµCḡC-P°P»CHPSP° PiC-PiPsC,PµPSP·C-Cḡ

PµPsPrC-P±PSPs PrPs C-PSC€PëC... α1-P°PrCḡPµPSPsP±P»PsPeP°C,PSCḡC-PI,
PsCḡC,PSCḡC,P°C,PëCḡPSP° PiC-PiPsC,PµPSP·C-Cḡ PjPsP¶Pµ PIPëPSPëPePSCḡC,Pë Cḡ
PiP°CḡC-C”PSC,C-PI, CḡPeC- P»C-PeCḡPIP°P»PëCḡCḡ C,P°PjCḡCḡP»PsP·PëPSPsPj, C- Cḡ
CḡC-PrPeC-CḡPSPëC... PIPëPiP°PrPeP°C... PjPsP¶Pµ PiCḡPëP·PIPµCḡC,Pë PrPs CḡPëPSPePsPiPµ.

PµCḡPë PiPµCḡC€PëC... PsP·PSP°PeP°C... PsCḡC,PSCḡC,P°C,PëCḡPSPsC— PiC-PiPsC,PµPSP·C-C—
(P·P°PiP°PjPsCḡPsCḡPµPSPSCḡ, CḡP»P°P±PeC-CḡC,CH) PiP°CḡC-C”PSC,C-PI, CḡPeC-
CḡPsP·PiPsCḡP°P»Pë P»C-PeCḡPIP°PSPSCḡ P”CḡC,P°C,,PsCḡCḡPsPj, CḡP»C-Pr
PiPµCḡPµPiPµCḡC,Pë Cḡ PiPsP»PsP¶PµPSPSCḡ CḡPëPrCḡCḡPë P°P±Ps P»PµP¶P°CḡPë, PiPsPePë
CḡPëPjPiC,PSPjPë PSPµ PjPëPSCḡC,CH.

PḡPµPsP±C...C-PrPSPs PrPsC,CḡPëPjCḡPIP°C,PëCḡCḡ PsP±PµCḡPµP¶PSPsCḡC,C- PiCḡPë
CḡCḡPjC-CḡPSPsPjCḡ P·P°CḡC,PSCḡCḡPIP°PSPSC- α-P°PrCḡPµPSPsP±P»PsPeP°C,PSCḡC-PI,
PIPeP»CḡCḡP°CḡCḡPë C,P°PjCḡCḡP»PsP·PëPS, C,P° C-PSPiC-P±C-C,PSCḡC-PI 5-
C,,PsCḡC,,PsPrC-PµCḡC,PµCḡP°P·Pë. α-P°PrCḡPµPSPsP±P»PsPeP°C,PSCḡPë C,P°
C-PSPiC-P±C-C,PSCḡPë 5-C,,PsCḡC,,PsPrC-PµCḡC,PµCḡP°P·Pë C”
PIP°P·PsPrPëP»P°C,P°C,PSCḡP°PjPë C,P° PjPsP¶CḡC,CH P·PSPëP¶CḡPIP°C,Pë

PŸCřPjC-CřPSPµ P·P°CřC,PsCřCřPIP°PSPSCř C,P°PjCřCřP»PsP·PëPSCř
 PiC-PrCřPsC...P»PsCřPëPrCř P·C- CřPëP»CHbPSPëPjPë C-PSPiC-P±C-C,PsCřP°PjPë PŸYP3A4
 (PSP°PiCřPëPeP»P°Pr, C-P· PePµC,PsPePsPSP°P·PsP»PsPj) P°P±Ps бђ“ Cř PjPµPSC€C-PN₂
 PjC-CřC- бђ“ P·C- CřPëP»CHbPSPëPjPë C-PSPiC-P±C-C,PsCřP°PjPë CYP2D6
 (PSP°PiCřPëPeP»P°Pr, C-P· PiP°CřPsPeCřPµC,PëPSPsPj) PjPsP¶Pµ P·P±C-P»CHbC€CřPIP°C,Pë
 PePsPSC†PµPSC,CřP°C†C-Cř C,P°PjCřCřP»PsP·PëPSCř (PrPëPI, CřPsP·PrC-P»

B«P'P·P°C"ПjPsPrC-Cl П· C-PSC€PëPjPë P»C-PeP°CґCґCHPePëPjPë P·P°CґPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C"ПjPsPrC-PMëB»). ПґPsPjCґ PSPµ CґPµPePsPjPµPSPPrCґC"CHCґCґ П·P°CґC,PsCґPsPICґPIP°C,Пë C,P°PjCґCґP»PsP·PëPS PİP°CґC-C"PSC,P°Pj, ClPeC- P»C-PeCґCHC,CHCґCґ ClґPëP»CHPSPëPjPë C-PSPiC-P±C-C,PsCґP°PjPë ПґYP3A4, C,P° CґPµPePsPjPµPSPPrPsPIP°PSPs P· PsP±PµCґPµPґPSC-CґC,CH P·P°CґC,PsCґPsPICґPIP°C,Пë C,P°PjCґCґP»PsP·PëPS PİP°CґC-C"PSC,P°Pj, ClPeC- P»C-PeCґCHC,CHCґCґ PİPsPjC-CґPSPëPjPë C-PSPiC-P±C-C,PsCґP°PjPë ПґYP3A4 (PSP°PİCґPëPeP»P°Pr, PµCґPëC,CґPsPjC-CґPëPSPsPj), ClґPëP»CHPSPëPjPë P°P±Ps PİPsPjC-CґPSPëPjPë C-PSPiC-P±C-C,PsCґP°PjPë CYP2D6, PePsPjP±C-PSP°CґC-C"CH PsP±PsC... ПґYP3A4 C,P° CYP2D6 C-PSPiC-P±C-C,PsCґC-PI P°P±Ps PİP°CґC-C"PSC,P°Pj P·C- ClґP»P°P±PePëPj PjPµC,P°P±PsP»C-P·PjPsPj CYP2D6.

PµPµC±C-PSPePsPIP° PSPµPrPsCґC,P°C,PSC-CґC,CH

P'PİP»PëPI PİPµC±C-PSPePsPIPSc— PSPµPrPsCґC,P°C,PSPsCґC,C- PSP° C,,P°CґPjP°PePsPeC-PSPµC,ПëPeCґ PrCґC,P°CґC,PµCґPëPrCґ PSPµ PIPëPIC±P°PICґCґ. PґPµCґPµP· P°PeC,ПëPIPSPëP№ PjPµC,P°P±PsP»C-P·Pj PrCґC,P°CґC,PµCґPëPrCґ C,P° 3Bґ"5- C,ПëPґPSPµPIPëP№ PİPµCґC-PsPr P№PsPiPs PSP°PİC-PIIPëPIPµPrPµPSPSCґ P»C-PeCґPIP°PSPSCґ PrCґC,P°CґC,PµCґPëPrPsPj C...PIPSCґPëC... P· P»PµPiPePsCH P°P±Ps PİPsPjC-CґPSPsCH PİPµC±C-PSPePsPIPScCH PSPµPrPsCґC,P°C,PSC-CґC,CH ClґP»C-Pr PİCґPsPIPPrPëC,Пë P· PsP±PµCґPµPґPSC-CґC,CH (PrPëPI. CґPsP·PrC-P»Pë B«PαP°CґPjP°PePsP»PsPiC-CґPSC- PIP»P°CґC,ПëPIPsCґC,C-B», B«PµCґPsC,ПëPİPsPeP°P·P°PSPSCґB» C,P° B«ПґPİPsCґC-P± P·P°CґC,PsCґCґPIP°PSPSCґ C,P° PrPsP·PëB»).

P"PsPİPsPjC-PґPSC- CґPµC±PsPIPëPSPë

P>C-PeP°CґCґCHPePëP№ P·P°CґC-P± PjC-CґC,ПëC,CH P±P°CґPIPSPëPe PґPsPIC,ПëP№ B«CґPsPSCґC±PSPëP№ P·P°C...C-PrB» (E 110), C%Ps PjPsPґPµ ClґPİCґPëC±PëPSPëC,Пë P°P»PµCґPiC-CґPSC- CґPµP°PeCґC—.

P"P°PSPëP№ P»C-PeP°CґCґCHPePëP№ P·P°CґC-P± PjC-CґC,ПëC,CH P»PµCґPëC,ПëPS, PsC,CґPëPjP°PSPëP№ P·C- ClґPsC"PIPsC— PsP»C-C—. PJ CґP°P·C- PICґC,P°PSPsPIP»PµPSPSCґ P°P»PµCґPiC-C— PSP° P°CґP°C...C-Clґ P°P±Ps ClґPsCH PSPµ P·P°CґC,PsCґPsPICґPIP°C,Пë PrP°PSPëP№ P»C-PeP°CґCґCHPePëP№ P·P°CґC-P± (PrPëPI. CґPsP·PrC-P» B«PµCґPsC,ПëPİPsPeP°P·P°PSPSCґB»).

P P°Pe PiCґCґPrPSPSc— P·P°P»PsP·Pë Cґ C±PsP»PsPIC-PeC-PI

PµPsPIC-PrPsPjP»ClґP»PsCґCґ PİCґPs CґC-PrPeC-CґPSC- PIPëPİP°PrPePë CґP°PeCґ PiCґCґPrPSPSc— P·P°P»PsP·Pë Cґ C±PsP»PsPIC-PeC-PI PİC-Pr C±P°Cґ PeP»C-PSC-C±PSPëC... PrPsCґP»C-PrPґPµPSCH C,P° Cґ PİPsCґC,PjP°CґPePµC,ПëPSPiPsPIPëP№ PİPµCґC-PsPr. PµCґPë CґCHPsPjCґ PµPİC-PrPµPjC-PsP»PsPiC-CґPSC- PrPsCґP»C-PrPґPµPSPSCґ PİPeP°P·CґCHC,CH PSP° PIC-PrCґCґC,PSC-CґC,CH PİC-PrPIPëC%PµPSPSCґ CґPëP·PëPeCґ CґPsP·PIPëC,PeCґ CґP°PeCґ PiCґCґPrPSPSc— P·P°P»PsP·Pë Cґ C±PsP»PsPIC-PeC-PI PİCґPë P·P°CґC,PsCґCґPIP°PSPSC- C-PSPiC-P±C-C,PsCґC-PI 5α-CґPµPrCґPeC,P°P·Pë. P>C-PeP°CґC- PİPsPIPëPSPSC- PİPsPİPµCґPµPrPëC,Пë ClґPIPsC—C... PİP°CґC-C"PSC,C-PI PİCґPs PSPµPsP±C...C-PrPSC-CґC,CH PSPµPiP°P№PSPs PİPsPIC-PrPsPjP»ClґC,Пë PİCґPs P±CґPrCH-

$$\text{C}\ddot{\text{I}}\text{P}\text{eC}-\text{P}\cdot\text{PjC}-\text{PSP}\ddot{\text{e}}\text{ Cr C},\text{PeP}^{\circ}\text{PSP}\ddot{\text{e}}\text{PSC}-\text{PiC}\ddot{\text{H}}\text{CrPrPSPsC}-\text{P}\cdot\text{P}^{\circ}\text{P}\gg\text{PsP}\cdot\text{P}\ddot{\text{e}},\text{PSP}^{\circ}\text{PiC}\ddot{\text{H}}\text{P}\ddot{\text{e}}\text{PeP}\gg\text{P}^{\circ}\text{Pr}\text{PiC}\ddot{\text{H}}\text{PsPiP}\ddot{\text{e}}\text{PrC}-\text{P}\gg\text{P}_{\mu}\text{PSPSC}\ddot{\text{I}}\text{ C}-\text{P}\cdot\text{C}\ddot{\text{I}}\text{PsC}\ddot{\text{I}}\text{PeP}^{\circ}\text{ P}^{\circ}\text{P}\pm\text{PsPiC}\ddot{\text{H}}\text{P}\ddot{\text{e}}\text{PiCrC}\dots\text{P}\gg\text{C}-\text{C}\ddot{\text{I}}\text{C},\text{CH}.$$
$$P-P^{\circ}C\dot{I}C, P_S C\dot{I}C \hat{=} PIP^{\circ}PSPSC\dot{I} C \hat{=} P\ddot{i}P_{\mu}C\dot{H}C - P_S P\dot{r} PIP^{\circ}PiC - C, PSP_S C\dot{I}C, C - P^{\circ}P \pm P_S \\ PiP_S P\dot{r}C \hat{=} PIP^{\circ}PSPSC\dot{I} PiC\dot{H}C \hat{=} P\dot{r}P\dot{r}C\dot{H}.$$

P"CrC,P°C,,PsC₇Cl₇ PiC₇PsC,PëPiPsPeP°P·P°PSPëPN₂ PrP»C₇ P»C-PeCrPIP°PSPSC₇ P₇Cl-PSPsPe.
P"PsC₇P»C-PrP₇P₇PSPSC₇ P· PIPëPIC₇P₇PSPSC₇ PIPiP»PëPIC₇ P»C-PeP°C₇Cl₇CH₇PePsPiPs
P·P°C₇PsP±C₇ PSP° PIP°PiC-C,PSC-C₇C,CH₇, P»P°PeC,P°C₇C-C₇ C,P°
C,,P₇C₇C,PëP»CH₇PSC-C₇C,CH₇ PSP₇ PiC₇PsPIPsPrPëP»Pë. P"P°P»C- PSP°PrP°C"C,CH₇Cl₇C₇
C-PSC,,PsC₇PjP°C₇C-C₇ Cl₇ PiC₇Ps P·P°C₇C,P₇C₇Cl₇PIP°PSPSC₇ PePsP₇P₇PSPsPiPs
PePsPjPiPsPSP₇PSC,P° PsPeC₇P₇PjPs.

Р_αР_μС₇С, Р_өР_»С_НР_{SC}-С_ГС, С_Н

$P''CrC, P^{\circ}C\dot{I}C, P_{\mu}C\dot{H}P\ddot{e}P\dot{r} \text{ } PIPiP \gg P\ddot{e}PIP^{\circ}C'' \text{ } PSP^{\circ}C \dots P^{\circ}C\dot{H}P^{\circ}PeC, P_{\mu}C\dot{H}P\ddot{e}C\dot{I}C, P\ddot{e}PeP\ddot{e}$
 $P_{\mu}C\dot{I}PeC\dot{r}P \gg C\dot{I}C, Cr (P \cdot PjP_{\mu}PSC\epsilon P_{\mu}PSPSC\dot{I} PeC - P \gg CH\dot{P}PePsC\dot{I}C, C -$
 $C\dot{I}P\dot{i}P_{\mu}C\dot{H}PjP^{\circ}C, PsP \cdot PsC - PrC - PI, PsP \pm B\dot{H}^{\text{TM}}C''PjCr \text{ } P_{\mu}C\dot{I}PeC\dot{r}P \gg C\dot{I}C, Cr \text{ } C, P^{\circ}$
 $C\dot{H}CrC \dots PsPjPsC\dot{I}C, C - C\dot{I}P\dot{i}P_{\mu}C\dot{H}PjP^{\circ}C, PsP \cdot PsC - PrC - PI). P\acute{K}P_{\mu} \text{ } PIP\ddot{e}PeP \gg C\dot{H}C\ddot{+}P_{\mu}PSP\ddot{e}P\dot{N}\epsilon$
 $C\dot{H}P\ddot{e}P \cdot P\ddot{e}Pe \text{ } P \cdot PSP\ddot{e}P\dot{I}P_{\mu}PSPSC\dot{I} C\ddot{+}PsP \gg PsPIC - C\ddot{+}PsC - C_{,,}P_{\mu}C\dot{H}C, P\ddot{e}P \gg CH\dot{P}PSPsC\dot{I}C, C -.$

$$\begin{aligned} & \text{PhC}\ddagger\text{C-PSPE}^\circ \text{PIPI}^\circ \gg \text{P}\ddot{\text{e}}\text{PICr} \text{C}, \text{P}^\circ \text{PjC}\ddagger\text{C}^\circ \text{P} \gg \text{PsP} \cdot \text{P}\ddot{\text{e}}\text{PSCr} \text{PiC-PrC}\ddot{\text{H}}\text{PsC} \dots \text{P} \gg \text{PsC}\ddot{\text{H}}\text{P}\ddot{\text{e}}\text{PrC}^\circ \text{PSP}^\circ \\ & \text{PeC-P} \gg \text{CHbPeC-C}\ddagger\text{C}, \text{CH} \text{P}^\circ \text{P} \pm \text{Ps} \text{C}, \text{C}^\circ \text{rPSPeC}\ddagger\text{C-C}\ddot{\text{H}} \text{C}\ddagger\text{C}\ddot{\text{P}}\text{P}\mu\text{C}\ddot{\text{H}}\text{PjP}^\circ \text{C}, \text{PsP} \cdot \text{PsC} - \text{PrC-PI} \text{PSP}\mu \\ & \text{P}\ddot{\text{e}}\text{C}\ddot{\text{H}}\text{PsPIPsPrP}\ddot{\text{e}}\text{P} \gg \text{P}^\circ \text{C}\ddagger\text{C}\ddot{\text{H}}. \end{aligned}$$

P'P°PiC-C,PSC-CΓC,CH

$\text{P}\ddot{\text{I}}\text{P}\text{e C- C-PSC}\epsilon\text{C- C-PSPIcC-P}\pm\text{C-C,PsC}\tilde{\text{H}}\text{P}\ddot{\text{e}}\ 5\alpha\text{-C}\tilde{\text{H}}\text{P}\mu\text{PrCrP}\epsilon\text{C,P}^\circ\text{P}\cdot\text{P}\ddot{\text{e}},\ \text{PrCrC,P}^\circ\text{C}\dot{\text{I}}\text{C,P}\mu\text{C}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{Pr}$
 $\text{P}\ddot{\text{I}}\text{P}\mu\text{C}\tilde{\text{H}}\text{P}\mu\text{C}\epsilon\text{PePsPrP}\P^\circ\text{C}''\ \text{P}\ddot{\text{I}}\text{P}\mu\text{C}\tilde{\text{H}}\text{P}\mu\text{C,PIP}\text{C}\tilde{\text{H}}\text{P}\mu\text{PSPSC}\tilde{\text{H}}\ \text{C,P}\mu\text{C}\dot{\text{I}}\text{C,PsC}\dot{\text{I}}\text{C,P}\mu\text{C}\tilde{\text{H}}\text{PsPSCr}\ \text{C}\dot{\text{r}}$
 $\text{PrP}\ddot{\text{e}}\text{PiC-PrC}\tilde{\text{H}}\text{PsC,P}\mu\text{C}\dot{\text{I}}\text{C,PsC}\dot{\text{I}}\text{C,P}\mu\text{C}\tilde{\text{H}}\text{PsPS,}\ \text{C}\%_{\text{Ps}}\ \text{PjPsP}\P\text{P}\mu\ \text{PiP}^\circ\text{P}\gg\text{CH}\text{PjC}\dot{\text{r}}\text{PIP}^\circ\text{C,P}\ddot{\text{e}}$
 $\text{C}\tilde{\text{H}}\text{PsP}\cdot\text{PIP}\ddot{\text{e}}\text{C,PsPe}\ \text{P}\cdot\text{PsPIPSC-C}\epsilon\text{PSC-C...}\ \text{C}\dot{\text{I}}\text{C,P}^\circ\text{C,P}\mu\text{PIP}\ddot{\text{e}}\text{C...}\ \text{PsC}\tilde{\text{H}}\text{PiP}^\circ\text{PSC-PI}\ \text{C}\dot{\text{r}}\ \text{P}\ddot{\text{I}}\text{P}\gg\text{PsPrP}^\circ$
 $\text{C}\ddot{\text{I}}\text{PsP}\gg\text{PsPIC-C}\ddot{\text{I}}\text{PsC-}\ \text{C}\dot{\text{I}}\text{C,P}^\circ\text{C,C-}.\ \text{P}\acute{\text{K}}\text{P}\mu\text{P}\cdot\text{PSP}^\circ\text{C}\ddot{\text{I}}\text{PSCr}\ \text{PeC-P}\gg\text{CH}\text{PeC-C}\dot{\text{I}}\text{C,CH}$
 $\text{PrCrC,P}^\circ\text{C}\dot{\text{I}}\text{C,P}\mu\text{C}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{PrCr}\ \text{P}\pm\text{C}\dot{\text{r}}\text{P}\gg\text{Ps}\ \text{PIP}\ddot{\text{e}}\text{C}\dot{\text{I}}\text{PIP}\gg\text{P}\mu\text{PSPs}\ \text{PI}\ \text{P}\mu\text{C}\dot{\text{I}}\text{PeCrP}\gg\text{C}\dot{\text{I}}\text{C,C-}\ \text{P}\ddot{\text{I}}\text{C}\tilde{\text{H}}\text{P}\ddot{\text{e}}$
 $\text{P}\ddot{\text{I}}\text{C}\tilde{\text{H}}\text{PsPIP}\mu\text{PrP}\mu\text{PSPSC-}\ \text{PrPsC}\dot{\text{I}}\text{P}\gg\text{C-PrP}\P\text{P}\mu\text{PSPSC}\dot{\text{I}}\text{I}.\ \text{P}\acute{\text{K}}\text{P}\mu\text{PIC-PrPsPjPs,}\ \text{C}\ddot{\text{I}}\text{P}\ddot{\text{e}}\ \text{PIP}\ddot{\text{I}}\text{P}\gg\text{P}\ddot{\text{e}}\text{PIP}^\circ\text{C}''$
 $\text{PrCrC,P}^\circ\text{C}\dot{\text{I}}\text{C,P}\mu\text{C}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{Pr,}\ \text{C}\%_{\text{Ps}}\ \text{P}\ddot{\text{I}}\text{PsC,C}\tilde{\text{H}}\text{P}^\circ\text{P}\ddot{\text{I}}\text{P}\ddot{\text{e}}\text{PI}\ \text{PrPs}\ \text{PsC}\tilde{\text{H}}\text{PiP}^\circ\text{PSC-P}\cdot\text{PjC}\dot{\text{r}}\ \text{P}\P\text{C-PSPeP}\ddot{\text{e}}\ \text{P}\cdot\text{C-}$
 $\text{C}\dot{\text{I}}\text{C-Pj}\beta\tilde{\text{H}}^{\text{TM}}\ \text{C}\dot{\text{I}}\text{Pj}\ \text{C}\ddot{\text{I}}\text{PsP}\gg\text{PsPIC-PeP}^\circ,\ \text{C}\dot{\text{I}}\text{PeP}\ddot{\text{e}}\text{P}\N\text{e}\ \text{P}\gg\text{C-PeCrC}''\text{C,CHC}\dot{\text{I}}\text{C}\dot{\text{I}}\text{P}''\text{C}\dot{\text{r}}\text{C,P}^\circ\text{C,,PsC}\tilde{\text{H}}\text{C}\dot{\text{I}}\text{PsPj,}$
 $\text{PSP}^\circ\ \text{P}\ddot{\text{I}}\text{P}\gg\text{C-Pr}\ \text{C}\ddot{\text{I}}\text{PsP}\gg\text{PsPIC-C}\ddot{\text{I}}\text{PsC-}\ \text{C}\dot{\text{I}}\text{C,P}^\circ\text{C,C-}.$

$\text{P}\ddot{\text{P}}\text{e C- Cr C}\ddot{\text{H}}\text{P}^\circ\text{P-C- P}\cdot\text{P}^\circ\text{C}\dot{\text{r}}\text{C,PsC}\dot{\text{r}}\text{C}\dot{\text{r}}\text{PIP}^\circ\text{PSPSC}\dot{\text{C}}\text{ C-PSC}\epsilon\text{P}\ddot{\text{e}}\text{C... C-PSPiC-P}\pm\text{C-C,PsC}\ddot{\text{H}}\text{C-PI } 5\alpha\text{-}$
 $\text{C}\ddot{\text{H}}\text{P}_{\mu}\text{PrCrPeC,P}^\circ\text{P}\cdot\ddot{\text{e}}, \text{C}\ddot{\text{H}}\text{P}_{\mu}\text{PePsPjP}_{\mu}\text{PSPrCrC}''\text{C,ChC}\dot{\text{r}}\text{C}\dot{\text{C}}\text{ PePsC}\ddot{\text{H}}\text{P}\ddot{\text{e}}\text{C}\dot{\text{r}}\text{C,CrPIP}^\circ\text{C,P}\ddot{\text{e}}\text{C}\dot{\text{r}}\text{Ch}$
 $\text{PiC}\ddot{\text{H}}\text{P}_{\mu}\text{P}\cdot\text{P}_{\mu}\text{C}\ddot{\text{H}}\text{PIP}^\circ\text{C,P}\ddot{\text{e}}\text{PIP}s\text{Pj PiC-Pr C}\ddot{\text{H}}\text{P}^\circ\text{C}\dot{\text{r}}\text{C,P}^\circ\text{C,P}_{\mu}\text{PIPsPiPs P}^\circ\text{PeC,Cr, C}\dot{\text{C}}\text{PeC}\%_{\text{oo}}\text{Ps}$
 $\text{P}\nabla\text{C-PSPeP}^\circ\text{PIP}^\circ\text{PiC-C,PSP}^\circ, \text{P}^\circ\text{C}\ddot{\text{H}}\text{PsP}\gg\text{PsPIC-Pe P}\cdot\text{P}^\circ\text{C}\dot{\text{r}}\text{C,PsC}\dot{\text{r}}\text{PsPICrC}''$
 $\text{P}\gg\text{C-PeP}^\circ\text{C}\ddot{\text{H}}\text{C}\dot{\text{r}}\text{ChPePePn}_2\text{ P}\cdot\text{P}^\circ\text{C}\dot{\text{r}}\text{C-P}\pm\text{P}''\text{CrC,P}^\circ\text{C,,PsC}\ddot{\text{H}}\text{C}\dot{\text{r}}, \text{P}\cdot\text{PjP}_{\mu}\text{C,PsC}\ddot{\text{H}}$
 $\text{P}\cdot\text{P}^\circ\text{PiPsP}\pm\text{C-PiP}^\circ\text{PSPSC}\dot{\text{C}}\text{ PiPsC,C}\ddot{\text{H}}\text{P}^\circ\text{PiP}\gg\text{C}\dot{\text{C}}\text{PSPSC}\ddot{\text{H}}\text{ C}\dot{\text{r}}\text{C-PjB}\ddot{\text{H}}^{\text{TM}}\text{ C}\dot{\text{C}}\text{ PrPs PsC}\ddot{\text{H}}\text{PiP}^\circ\text{PSC-P}\cdot\text{PjCr}$
 $\text{P}\nabla\text{C-PSPeP}\ddot{\text{e}}.$

$P_k P_j P^{\circ} C''$ $PrPsPeP^{\circ} P \cdot C - PI$ $C, PsPiPs, C_{\infty} Ps$ $PIPIP_{\mu} PrP_{\mu} PSPSC_{\mu} C, P^{\circ} P_j C' C' r P \gg PsP \cdot P \ddot{e} PSCr$
 $PiC - PrC_{\mu} PsC \dots P \gg PsC_{\mu} P \ddot{e} PrC' r$ $PIP^{\circ} PiC - C, PSP \ddot{e} P_j$ $C' r P^{\circ} P_j PeP^{\circ} P_j C_{\infty} C' r C_{\mu} C - PI$ $C, P^{\circ} PeC_{\mu} PsP \gg C - PI$
 $C' r PrPsP \cdot P^{\circ} C \dots, C_{\infty} Ps$ $PiP_{\mu} C_{\mu} P_{\mu} PIP \ddot{e} C_{\infty} C' r C_{\mu} C, C_{\mu} C, P_{\mu} C_{\mu} P^{\circ} PiP_{\mu} PIC, P \ddot{e} C \ddagger PSC -$,
 $PSP_{\mu} PiP^{\circ} C, P \ddot{e} PIPSPs$ $PIPiP \gg P \ddot{e} PIP^{\circ} C''$ $PSP^{\circ} PiP \gg C - Pr$.

РμРμСҢС-РsРr РiРsРrСrPIP°PSPSCЦ РiСҢСrРrРrСҢ

РќРμPIC-РrРsРjРs, С±Рө РiСҢСsPSPөРeР°СҢС,СҢ РrСrС,Р°СҢС,РμСҢСРөРr С,Р°
С,Р°РjСҢСrР»РsР·РөРs Сr РiСҢСrРrPSPμ РjРsР»РsРeРs Р¶C-РSPeРө.

*Р—РrР°С,РSC-СҢС,СҢ РiРiР»РөРiР°С,Рө РSP° С€РiРөРrРeС-СҢС,СҢ СҢРμР°РeС†С-С— РiСҢСРө
РeРμСҢСзРiР°PSPSC- Р°PIC,РsС,СҢР°PSCҢРiРsСҢС,РsРj Р°Р±Рs С-РSC€РөРjРө
РjРμС...Р°PSC-Р·РjР°РjРө.*

Р"РsСҢР»С-РrР¶РμPSPSCЦ Р· РiРөРiС±РμPSPSCЦ РiРiР»РөРiСr Р»С-РeР°СҢСҢСҢРeРsРiРs
Р·Р°СҢРs±Сr Р"СrС,Р°С,,РsСҢСҢ РSP° Р·РrР°С,РSC-СҢС,СҢ РeРμСҢСrРiР°С,Рө
Р°PIC,РsС,СҢР°PSCҢРiРsСҢС,РsРj Р°Р±Рs С-РSC€РөРjРө РjРμС...Р°PSC-Р·РjР°РjРө РSPμ
РiСҢСsРiРsРrРөР»РөСҢСЦ. РҗРrРSP°Рe РiР°С†С-С"РSC,С-Рi РiРsС,СҢС-Р±РSPs
РiСҢСsС-РSC,,РsСҢСjСrРiР°С,Рө РiСҢСs РjРsР¶Р»РөРiРμ РiРөPSPөРeРSPμPSPSCЦ
СҢРөРjРiС,РsРjС-Рi, РiРsРiБҢ™ СЦР·Р°PSPөС... Р· РsСҢС,РsСҢС,Р°С,РөС±РSPsСҢ
Р°СҢС,РμСҢС-Р°Р»СҢРSPsСҢ РiС-РiРsС,РμPSP·С-С"СҢ, Р·РsРeСҢРμРjР° РiСҢСs
Р·Р°РiР°РjРsСҢС±РμPSPSCЦ, РiСҢСРө Р·Р°СҢС,РsСҢСrРiР°PSPSC- Р"СrС,Р°С,,РsСҢСҢСr.

РҮРiРsСҢС-Р± Р·Р°СҢС,РsСҢСзРiР°PSPSCЦ С,Р° РrРsР·Рө.

Р"РsСҢСsСҢР»С- (РiРeР»СҢС±Р°СҢС±Рө С...РiРsСҢСРөС... Р»С-С,РSCҢРsРiРs PIC-РeСr)

Р РμРeРsРjРμPSPРrРsРiР°PSP° РrРsР·Р° Р"СrС,Р°С,,РsСҢСҢСr БҢ“ 1 РeР°РiСҢСrР»Р° (0,5 РjРi/0,4
РjРi) РSP° РrРsР±Сr. РμСҢСРμРiР°СҢР°С, РiСҢСРөРμРjР°СҢС,СҢ РiРμСҢСsСҢР»СҢРSPs
С±РμСҢСРμР· 30 С...РiРөР»РөРs РiС-СҢР»СЦ СҢРiРsР¶РiРiР°PSPSCЦ С-Р¶C- Рi РsРrРөРs С-
С,РsРμ Р¶Рμ С±Р°СҢС. РҗР°РiСҢСrР»Сr СҢР»С-Рr РeРsРiС,Р°С,Рө С†С-Р»РsСҢ, РSPμ
PIC-РrРeСҢРөРiР°С,Рө С,Р° РSPμ СҢСsР·Р¶РsРiСrРiР°С,Рө, РsСҢРeС-Р»СҢРeРө РiСҢСРө
РeРsРSC,Р°РeС,С- С-Р· РiРjС-СҢС,РsРj РeР°РiСҢСrР»Рө РjРsР¶Р»РөРiРμ
РiРsРrСҢР°Р·РSPμPSPSCЦ СҢР»РөР·РsРiРsС— РsР±РsР»РsРSPeРө СҢСsС,Р° С,Р° РiР»РsС,РeРө.

Р"СrС,Р°С,,РsСҢСҢ РjРsР¶РSP° Р·Р°СҢС,РsСҢРsРiСrРiР°С,Рө РrР»СЦ Р·Р°РjС-С%РμPSPSCЦ
РeРsРjР±С-РSPsРiР°PSPsС— С,РμСҢР°РiС-С— РrСrС,Р°СҢС,РμСҢСРөРrРsРj С,Р°
С,Р°РjСҢСrР»РsР·РөРSCr РiС-РrСҢСsС...Р»РsСҢСРөРrРsРj Р· РjРμС,РsСҢ РiРsР»РμРiС€РμPSPSCЦ
Р»С-РeСrРiР°PSPSCЦ.

Р—Р°РjС-РSP° Р"СrС,Р°С,,РsСҢСҢРsРj РrСrС,Р°СҢС,РμСҢСРөРrСr Р°Р±Рs
С,Р°РjСҢСrР»РsР·РөРSCr РiС-РrСҢСsС...Р»РsСҢСРөРrСr РiСҢСРө РjРsРSPsС,РμСҢР°РiС-С—
РjРsР¶Р»РөРiР°, СЦРeС%Рs С†Рμ РeР»С-РSC-С±РSPs РsР±Т'СҢСrРSC,РsРiР°PSPs.

РќРөСҢСРeРsРiР° РSPμРrРsСҢС,Р°С,РSC-СҢС,СҢ

Р»Р°СҢСРjР°РeРsРeС-РSPμС,РөРeР° РiСҢСРμРiР°СҢР°С,Сr Сr С...РiРsСҢСРөС... Р·
РSPөСҢСРeРsРiРsСҢ РSPμРrРsСҢС,Р°С,РSC-СҢС,СҢ РSPμ РiРөРiС±Р°Р»Р°СҢСҢ.
Р—РjС-РSCҢРiР°С,Рө РrРsР·Сr РiСҢСРμРiР°СҢР°С,Сr РrР»СЦ Р»С-РeСrРiР°PSPSCЦ С,Р°РeРөС...
С...РiРsСҢСРөС... РSPμ РiРsС,СҢС-Р±РSPs (РrРөРi. СҢСsР·РrС-Р»Рө
Б«Р»Р°СҢСРjР°РeРsРeС-РSPμС,РөРeР°Б» С,Р° Б«РҗСҢРsР±Р»РөРiРsСҢС,С-
Р·Р°СҢС,РsСҢСrРiР°PSPSCЦБ»).

РμРμС±С-РSPeРsРiР° РSPμРrРsСҢС,Р°С,РSC-СҢС,СҢ

$P \propto P^{\circ} C_{\text{H}} P_j P^{\circ} P_e P_s P_e C - P S P_{\mu} C, P \ddot{e} P_e P^{\circ} \text{ P i C}_{\text{H}} P_{\mu} P_i P^{\circ} C_{\text{H}} P^{\circ} C, C_r C_r C \dots P I P_s C_{\text{H}} P \ddot{e} C \dots P \cdot$
 $P_i P_{\mu} C \ddagger C - P S P_e P_s P I P_s C_{\text{H}} P S P_{\mu} P_r P_s C \ddagger C, P^{\circ} C, P S C - C \ddagger C, C_{\text{H}} P S P_{\mu} P I P \ddot{e} P I C \ddagger P^{\circ} P \gg P^{\circ} C \ddagger C_{\text{H}}, C, P_s P_j C_r$
 $P_i C_{\text{H}} P_{\mu} P_i P^{\circ} C_{\text{H}} P^{\circ} C, C \ddagger P \gg C - P_r P \cdot P_s P \pm P_{\mu} C_{\text{H}} P_{\mu} P \parallel P S C - C \ddagger C, C_{\text{H}} P \cdot P^{\circ} C \ddagger C, P_s C \ddagger P_s P I C_r P I P^{\circ} C, P \ddot{e}$
 $P_i C_{\text{H}} P \ddot{e} P \gg P_{\mu} P_i P_e C - P N_{\text{e}} C, P^{\circ} P_i P_s P_j C - C_{\text{H}} P S C - P N_{\text{e}} P_i P_{\mu} C \ddagger C - P S P_e P_s P I C - P N_{\text{e}}$
 $P S P_{\mu} P_r P_s C \ddagger C, P^{\circ} C, P S P_s C \ddagger C, C - (P_r P \ddot{e} P I. C_{\text{H}} P_s P \cdot P_r C - P \gg P \ddot{e} B \ll P \propto P^{\circ} C_{\text{H}} P_j P^{\circ} P_e P_s P_e C - P S P_{\mu} C, P \ddot{e} P_e P^{\circ} B \gg$
 $C, P^{\circ} B \ll P_{\text{h}} C \ddagger P_s P \pm P \gg P \ddot{e} P I P_s C \ddagger C, C - P \cdot P^{\circ} C \ddagger C, P_s C \ddagger C_r P I P^{\circ} P S P S C \ddagger B \gg). P \ddagger P I P_s C_{\text{H}} P \ddot{e} P_j P \cdot$
 $C, C \ddagger P \parallel P_e P_s C_{\text{H}} P_i P_{\mu} C \ddagger C - P S P_e P_s P I P_s C_{\text{H}} P S P_{\mu} P_r P_s C \ddagger C, P^{\circ} C, P S C - C \ddagger C, C_{\text{H}} P_i C_{\text{H}} P_{\mu} P_i P^{\circ} C_{\text{H}} P^{\circ} C,$
 $P_i C_{\text{H}} P_s C, P \ddot{e} P_i P_s P_e P^{\circ} P \cdot P^{\circ} P S P \ddot{e} P N_{\text{e}} (P_r P \ddot{e} P I. C_{\text{H}} P_s P \cdot P_r C - P \gg B \ll P_{\text{h}} C_{\text{H}} P_s C, P \ddot{e} P_i P_s P_e P^{\circ} P \cdot P^{\circ} P S P S C \ddagger B \gg).$

P''C-C, P $\ddot{e}$.

$P - P^{\circ} C \ddagger C, P_s C \ddagger C_r P I P^{\circ} P S P S C \ddagger P_i C_{\text{H}} P_s C, P \ddot{e} P_i P_s P_e P^{\circ} P \cdot P^{\circ} P S P_s P_r C - C, C \ddagger P_j P I C - P_e P_s P_j P_r P_s 18$
 $C_{\text{H}} P_s P_e C - P I.$

P μ P μ C $\ddot{H}$ P μ P r P s P $\cdot$ C $\acute{z}$ P I P $^{\circ}$ P S P S C $\ddagger$.

$P'' P^{\circ} P S P \ddot{e} C \dots P_i C_{\text{H}} P_s P I P \ddot{e} P_i P^{\circ} P_r P_e P \ddot{e} P_i P_{\mu} C_{\text{H}} P_{\mu} P_r P_s P \cdot C_r P I P^{\circ} P S P S C \ddagger P'' C_r C, P^{\circ} C, P_s C_{\text{H}} C \ddagger P_s P_j$
 $P S P_{\mu} P_j P^{\circ} C'' . P'' P^{\circ} P \gg C - P S P^{\circ} P_r P^{\circ} C'' C, C_{\text{H}} C \ddagger C \ddagger C C - P S C, P_s C_{\text{H}} P_j P^{\circ} C \ddagger C - C \ddagger P_i C_{\text{H}} P_s$
 $P \cdot P^{\circ} C \ddagger C, P_s C \ddagger C_r P I P^{\circ} P S P S C \ddagger P_e P_s P \parallel P S P_s P_i P_s P_e P_s P_j P_i P_s P S P_{\mu} P S C, P^{\circ} P_s P_e C_{\text{H}} P_{\mu} P_j P_s.$

P''C $\acute{z}$ C, P $^{\circ}$ C $\ddagger$ C, P μ C $\ddot{H}$ P $\ddot{e}$ P r

$P - P^{\circ} P_r P^{\circ} P S P \ddot{e} P_j P \ddot{e} P_e P \gg C - P S C - C \ddagger P S P \ddot{e} C \dots P_r P_s C \ddagger P \gg C - P_r P \parallel P_{\mu} P S C_{\text{H}}, C_r$
 $P_r P_s P \pm C_{\text{H}} P_s P I P_s P \gg C_{\text{H}} C \ddagger C - P I C_{\text{H}} P^{\circ} P \cdot P_s P I C - P_r P_s P \cdot P \ddot{e} P_r C_r C, P^{\circ} C \ddagger C, P_{\mu} C_{\text{H}} P \ddot{e} P_r C_r P_r P_s 40 P_j P_i$
 $P S P^{\circ} P_r P_s P \pm C_r (C_r 80 C_{\text{H}} P^{\circ} P \cdot C - P I P I P \ddot{e} C \% C - P \cdot P^{\circ} C, P_{\mu} C_{\text{H}} P^{\circ} P_i P_{\mu} P I C, P \ddot{e} C \ddagger P S C -)$
 $P_i C_{\text{H}} P_s C, C \ddagger P_i P_s P_j 7 P_r P S C - P I P S P_{\mu} P I P \ddot{e} P_e P \gg P \ddot{e} P_e P^{\circ} P \gg P \ddot{e} P \cdot P^{\circ} P S P_{\mu} P_i P_s P_e P_s C'' P S C_{\text{H}} C \% P_s P_r P_s$
 $P \pm P_{\mu} P \cdot P_i P_{\mu} P_e P \ddot{e} C - C \dots P \cdot P^{\circ} C \ddagger C, P_s C \ddagger C_r P I P^{\circ} P S P S C \ddagger P_{\mu} C - P_r C \ddagger P^{\circ} C \ddagger P_e P \gg C - P S C - C \ddagger P S P \ddot{e} C \dots$
 $P_r P_s C \ddagger P \gg C - P_r P \parallel P_{\mu} P S C_{\text{H}} P \cdot P^{\circ} C \ddagger C, P_s C \ddagger P_s P I C_r P I P^{\circ} P \gg P \ddot{e} P_r P_s P \cdot P \ddot{e} P_r C_r C, P^{\circ} C \ddagger C, P_{\mu} C_{\text{H}} P \ddot{e} P_r C_r P_i P_s$
 $5 P_j P_i P S P^{\circ} P_r P_s P \pm C_r P_i C_{\text{H}} P_s C, C \ddagger P_i P_s P_j 6 P_j C - C \ddagger C \ddagger C \ddagger C - P I P \pm P_{\mu} P \cdot P_i P_s C \ddagger P I P \ddot{e}$
 $P_r P_s P_r P^{\circ} C, P_e P_s P I P \ddot{e} C \dots P_i P_s P \pm C - C \ddagger P S P \ddot{e} C \dots C_{\text{H}} P_{\mu} P^{\circ} P_e C \ddagger C - P N_{\text{e}} P_i P_s C_{\text{H}} C - P I P S C \ddagger P S P_s C - P \cdot$
 $P \cdot P^{\circ} C \ddagger C, P_s C \ddagger C_r P I P^{\circ} P S P S C \ddagger P_j P_r C_r C, P^{\circ} C \ddagger C, P_{\mu} C_{\text{H}} P \ddot{e} P_r C_r C_r P_r P_s P \cdot C - 0,5 P_j P_i P S P^{\circ} P_r P_s P \pm C_r.$

$P \ddot{Y} P_i P_{\mu} C \ddagger P \ddot{e} C, C - C \ddagger P S P_s P_i P_s P^{\circ} P S C, P \ddot{e} P_r P_s C, C_r P S P_{\mu} P_j P^{\circ} C'', C, P_s P_j C_r C_r C_{\text{H}} P^{\circ} P \cdot C -$
 $P_j P_s P \parallel P \gg P \ddot{e} P I P_s P_i P_s P_i P_{\mu} C_{\text{H}} P_{\mu} P_r P_s P \cdot C_r P I P^{\circ} P S P S C \ddagger P_i C_{\text{H}} P_s P I P_s P_r C \ddagger C, C_{\text{H}}$
 $C \ddagger P \ddot{e} P_j P_i C, P_s P_j P^{\circ} C, P \ddot{e} C \ddagger P S C_r C, P^{\circ} P_i C - P_r C, C_{\text{H}} P \ddot{e} P_j C_r P I P^{\circ} P \gg C_{\text{H}} P S C_r C, P_{\mu} C_{\text{H}} P^{\circ} P_i C - C_{\text{H}}.$

P $\ddot{y}$ P $^{\circ}$ P j C $\ddagger$ C $\acute{z}$ P $\gg$ P s P $\cdot$ P $\ddot{e}$ P S

$P \acute{K} P^{\circ} P_r C \dots P_s P_r P \ddot{e} P \gg P \ddot{e} P_i P_s P I C - P_r P_s P_j P \gg P_{\mu} P S P S C \ddagger C \% P_s P_r P_s P_i P_s C \ddagger C, C_{\text{H}} P_s P_i P_s$
 $P_i P_{\mu} C_{\text{H}} P_{\mu} P_r P_s P \cdot C_r P I P^{\circ} P S P S C \ddagger C, P^{\circ} P_j C \ddagger C_r P \gg P_s P \cdot P \ddot{e} P S C_r P_i C - P_r C_{\text{H}} P_s C \dots P \gg P_s C_{\text{H}} P \ddot{e} P_r P_s P_j C_r$
 $P_r P_s P \cdot C - 5 P_j P_i, P I C_{\text{H}} P_{\mu} P \cdot C_r P \gg C_{\text{H}} C, P^{\circ} C, C - C \ddagger P_e P_s P_i P_s C \ddagger P_i P_s C \ddagger C, P_{\mu} C_{\text{H}} C - P_i P^{\circ} P \gg P^{\circ} C \ddagger C_{\text{H}}$
 $P_i P_s C \ddagger C, C_{\text{H}} P^{\circ} P^{\circ} C_{\text{H}} C, P_{\mu} C_{\text{H}} C - P^{\circ} P \gg C_{\text{H}} P S P^{\circ} P_i C - P_i P_s C, P_{\mu} P S P \cdot C - C \ddagger (C \ddagger P \ddot{e} C \ddagger C, P_s P \gg C - C \ddagger P S P \ddot{e} P N_{\text{e}}$
 $P^{\circ} C_{\text{H}} C, P_{\mu} C_{\text{H}} C - P^{\circ} P \gg C_{\text{H}} P S P \ddot{e} P N_{\text{e}} C, P \ddot{e} C \ddagger P_e 70 P_j P_j / Hg), P \pm P \gg C_{\text{H}} P I P^{\circ} P S P S C \ddagger C, P^{\circ} P_r C - P^{\circ} C_{\text{H}} P_{\mu} C \ddagger C,$
 $C \ddagger P_e C - P \gg C - P_e C_r P I P^{\circ} P \gg P \ddot{e} C - P S C, C_r P \cdot C - C'' C_{\text{H}} C_{\text{H}} C - P_r P \ddot{e} P S P \ddot{e}, P_i C - C \ddagger P \gg C \ddagger C \ddagger P_s P_i P_s$
 $P_i P^{\circ} C \ddagger C - C'' P S C, P I C - P_r C \ddagger C_r P I P_i P_s P \gg P_{\mu} P_i C \epsilon P_{\mu} P S P S C \ddagger C_r C, P_s P N_{\text{e}} C \ddagger P^{\circ} P_j P \ddot{e} P N_{\text{e}} P_r P_{\mu} P S C_{\text{H}}. P_j$
 $C_{\text{H}} P^{\circ} P \cdot C - P_i P_s C \ddagger C, C_{\text{H}} P_s C - P^{\circ} C_{\text{H}} C, P_{\mu} C_{\text{H}} C - P^{\circ} P \gg C_{\text{H}} P S P_s C - P_i C - P_i P_s C, P_{\mu} P S P \cdot C - C - C \ddagger P_e P^{\circ}$
 $P I P \ddot{e} P S P \ddot{e} P_e P^{\circ} C'' P_i C - C \ddagger P \gg C \ddagger C P_i P_{\mu} C_{\text{H}} P_{\mu} P_r P_s P \cdot C_r P I P^{\circ} P S P S C \ddagger C, P^{\circ} P_j C \ddagger C_r P \gg P_s P \cdot P \ddot{e} P S C_r$
 $P_i C - P_r C_{\text{H}} P_s C \dots P \gg P_s C_{\text{H}} P \ddot{e} P_r P_s P_j, C \ddagger P \gg C - P_r P \cdot P \cdot P \pm P_{\mu} P \cdot P_i P_{\mu} C \ddagger P \ddot{e} C, P \ddot{e} P_i C - P_r C, C_{\text{H}} P \ddot{e} P_j P_e C_r$
 $P_r C - C \ddagger P \gg C_{\text{H}} P S P_s C \ddagger C, C - C \ddagger P_{\mu} C_{\text{H}} C \ddagger P_{\mu} P I P_s - C \ddagger C_r P_r P \ddot{e} P S P S P_s C - C \ddagger P \ddot{e} C \ddagger C, P_{\mu} P_j P \ddot{e}.$

Р_μР°С†С-С"РSC,С† РI C,Р°РeРsРjС† С†С,Р°РSC- С†Р»С-Рr РiСђРeРPNPSCЦC,Рe
РiРsСђРeР·РsРSC,Р°Р»СђРSPμ РiРsР»РsР¶РμPSPSCЦ, C%oРsР± РIС-РrРSPsРIPeC,Рe
Р°СђС,РμСђС-Р°Р»СђРSPePN C,РeС†Рe С- РSPsСђРjР°Р»С-Р·С†РIP°С,Рe С†Р°С†С,РsС,С†
С†РμСђС†РμРIPeC... С†РeРsСђРsС†РμPSCђ. РiРeC%oРs С†Рμ РSPμ РrРsРiРsРjРsР¶Рμ,
РSPμРsР±С...С-РrРSPs РiСђРeР·РSP°С†РeC,Рe РiР»Р°Р·РjРsР·Р°РjС-РSPSPeРeРe, Р° С† СђР°Р·С-
РSPμРsР±С...С-РrРSPsС†С,С- бђ“ С†С†РrРeРSPsР·РIС†Р¶РIP°Р»СђРSC- Р·Р°С†РsР±Рe.
РμРsС,СђС-Р±РSPs С†С,РμР¶РeC,Рe Р·Р° С„С†РSPeС†С-С"Сђ РSPeСђРsРe С-
РiСђРsРIPsРrРeC,Рe Р·Р°РiР°Р»СђРSPsРiС-РrС,СђРeРjС†РIP°Р»СђРSC† С,РμСђР°РiС-Сђ.
Р"С-Р°Р»С-Р· РjРsР¶Рμ РIPeCЦIPeC,РeС†СЦ РSPμРμC„РμРeC,РeРIPSPeРj, РsС†РeC-Р»СђРeРe
С,Р°РjС†С†Р»РsР·РeРPSC† РiС-РrСђРsС...Р»РsСђРeРr РjР°РPNP¶Рμ РiРsРIPSC-С†С,Сђ
Р·РiБђ™ СЦР·С†С"С,СђС†СЦ Р· Р±С-Р»РeР°РjРe РiР»Р°Р·РjРe РeСђРsРIС-.

РμСђРe РiРμСђРμРrРsР·С†РIP°РSPSC-, C%oРsР± Р·Р°РiРsР±С-РiС,Рe Р°Р±С†РsСђР±С†С-С—,
С† РiР°С†С-С"РSC,Р° РSPμРsР±С...С-РrРSPs РIPeРeР»РeРe°С,Рe Р±Р»СђРIP°РSPSCЦ.
РiРeC%oРs РiСђРeРPNPSCЦC,Рs РIPμР»РeРeС- РrРsР·Рe РiСђРμРiР°СђР°С,С†,
РSPμРsР±С...С-РrРSPs РiСђРsРIPμС†С,Рe РiСђРsРjРeРIP°РSPSCЦ СeР»С†РSPeР°, РrР°С,Рe
Р°РeC,РeРIPsРIP°РSPμ РIС†РiС-Р»Р»СЦ С,Р° РiСђРsРSPsС†РSPμ, РSP°РiСђРeРeР»Р°Рr
С†С†Р»СђС„Р°С, РSP°С,СђС-Сђ.

РμРsР±С-С†РSC- СђРμР°РeС†С-С—.

Р†РSC„РsСђРjР°С†С-Сђ РiСђРs РiРsР±С-С†РSC- СђРμР°РeС†С-С— РeРsР¶РSPsРiРs
РeРsРjРiРsРSPμPSC,Р° РsРeСђРμРjРs (РrС†С,Р°С†С,РμСђРeРr С,Р° С,Р°РjС†С†Р»РsР·РeРs)
С,Р°РeРsР¶ РSP°РIPμРrРμPSPs РSPeР¶С†Рμ. РkРμ РiСђРs РIС†С- РiРsР±С-С†РSC-
СђРμР°РeС†С-С—, C%oРs РIС-РrРjС-С†Р°Р»Рe РiСђРe Р·Р°С†С,РsС†С†РIP°РSPSC-
РeРsР¶РSPsРiРs РeРsРjРiРsРSPμPSC,Р° РsРeСђРμРjРs, РiРsРIС-РrРsРjР»СЦР»Рe РiСђРe
Р·Р°С†С,РsС†С†РIP°РSPSC- РeРsРjР±С-РSP°С†С-С— РrС†С,Р°С†С,РμСђРeРr
С,Р°РjС†С†Р»РsР·РeРs, С,РsРjС† С-РSC„РsСђРjР°С†С-Сђ РiСђРs РiРsР±С-С†РSC-
СђРμР°РeС†С-С— РiСђРe Р·Р°С†С,РsС†С†РIP°РSPSC- РsРeСђРμРjРeC...
РeРsРjРiРsРSPμPSC,С-РI Р"С†С,Р°С„РsСђС†С† С,Р°РeРsР¶ РIPeР»СђС†РμPSPs РI РrР°РSC†
С-РSC†С,СђС†РeС†С-Сђ.

Р—Р° РrР°РSPeРjРe 4-СђС-С†РSPsРiРs РrРsС†Р»С-РrР¶РμPSPSCЦ CombAT, РIС-РrС†РsС,РsРe
РiРsР±С-С†РSPeC... СђРμР°РeС†С-РN, РIPeР·РSP°С†РμPSPeC... РrРsС†Р»С-РrРSPeРeР°РjРe
РiСђРsС,СЦРiРsРj РiРμСђСeРsРiРs, РrСђС†РiРsРiРs, С,СђРμC,СђРsРiРs С,Р°
С†РμC,РIPμСђС,РsРiРs СђРsРeС-РI Р»С-РeС†РIP°РSPSCЦ, Р·РjС-РSCђРIP°РIС†СЦ:
РIС-РrРiРsРIС-РrРSPs 22 %, 6 %, 4 % С,Р° 2 % РiСђРe РeРsРjР±С-РSPsРIP°РSC-РN
С,РμСђР°РiС-С— РrС†С,Р°С†С,РμСђРeРr С,Р°РjС†С†Р»РsР·РeРs; 15 %, 6 %, 3 % С,Р° 2 %
РiСђРe РjРsРSPsС,РμСђР°РiС-С— РrС†С,Р°С†С,РμСђРeРrРsРj; 13 %, 5 %, 2 %, С,Р° 2 % РiСђРe
РjРsРSPsС,РμСђР°РiС-С— С,Р°РjС†С†Р»РsР·РeРsРj. Р°eC%oРePN РIС-РrС†РsС,РsРe
РiРsР±С-С†РSPeC... СђРμР°РeС†С-РN С† РiСђС†РiС-, СЦРeР° РsС,СђРeРjС†РIP°Р»Р°
РeРsРjР±С-РSPsРIP°РSC† С,РμСђР°РiС-Сђ, РiСђРsС,СЦРiРsРj РiРμСђСeРsРiРs СђРsРeС†
Р»С-РeС†РIP°РSPSCЦ Р·С†РjРsРIP»РμPSPePN РIPeC%oРeРjРe РiРsРeР°Р·РSPeРeР°РjРe
СђРμРiСђРsРrС†РeC,РeРIPSPeC... РiРsСђС†СeРμPSCђ, Р° С†Р°РjРμ: РiРsСђС†СeРμPSPSCЦ
РμСЦРeС†Р»СЦС†С-С—, СЦРeС- С†РiРsС†С,РμСђС-РiР°Р»РeС†Сђ С† РiСђС†РiС-.

РμРsР±С-С†РSC- СђРμР°РeС†С-С—, C%oРs РIPeРSPeРeР°Р»Рe Р· С†Р°С†С,РsС,РsСђ ≥1 %
РiСђРsС,СЦРiРsРj РiРμСђСeРsРiРs СђРsРeС† Р·Р°С†С,РsС†С†РIP°РSPSCЦ, Р·Р° РrР°РSPeРjРe
РrРsС†Р»С-РrРSPeС†СђРeРeC... Р°РSP°Р»С-Р·С-РI CombAT, REDUCE, Р° С,Р°РeРsР¶
РeР»С-РSC-С†РSPeC... РrРsС†Р»С-РrР¶РμPSCђ РjРsРSPsС,РμСђР°РiС-РN

PePsPjPiPsPSPμPSC, P°PjPë P"CrC, P°C,, PsCḡCḡCḡ, PSP°PIPμPrPμPSC- PI C, P°P±P»PëC†C-.

P†PSC,, PsCḡPjP°C†C-Cl C%PsPrPs PiPsP±C-C†PSPëC... CḡPμP°PeC†C-PNë
C, P°PjCḡCḡP»PsP·PëPSCḡ P±P°P·CḡC" C, ChCḡCḡCl PSP° PrP°PSPëC..., C%Ps PrPsCḡC, CrPiPSC-
PSP° PIC-PrPiPsPIC-PrPSPëC... PjPμPrPëC†PSPëC... CḡPμCḡCḡCḡCḡP°C... P§P°CḡC, PsC, P°
C—C... PIPëPSPëPePSPμPSPSCḡ PjPsP¶Pμ P·CḡPsCḡC, P°C, Pë PiCḡPë PsPrPSPsC†P°CḡPSPsPjCḡ
P·P°CḡC, PsCḡCḡPIP°PSPSC- PrCḡC, P°CḡC, PμCḡPëPrCḡ C, P° C, P°PjCḡCḡP»PsP·PëPSCḡ.

P§P°CḡC, PsC, P° PIPëPSPëPePSPμPSPSCḡ PiPsP±C-C†PSPëC... CḡPμP°PeC†C-PNë,
PIPëCḡPIP»PμPSPëC... Cr PeP»C-PSC-C†PSPëC... PrPsCḡP»C-PrP¶PμPSPSCḡC...: C†P°CḡC, Ps
(≥1/100 вḡ" <1/10), PSPμC†P°CḡC, Ps (≥1/1000 вḡ" <1/100), CḡC-PrPePs (≥1/10000 вḡ" <1/1000),
PrCḡP¶Pμ CḡC-PrPePs (<1/10000). PμPsP±C-C†PSC- CḡPμP°PeC†C-C—,
PeP»P°CḡPëC,, C-PePsPIP°PSC- P·P° PeP»P°CḡP°PjPë CḡPëCḡC, PμPj PsCḡPiP°PSC-PI,
PiCḡPμPrCḡC, P°PIP»PμPSPs Cr PiPsCḡCḡPrPeCḡ P·PSPëP¶PμPSPSCḡ C—C... CḡC, CrPiPμPSCḡ
C, ClP¶PePsCḡC, C-.

PḡP»P°Cḡ CḡPëCḡC, PμPjPë PsCḡPiP°PSC-PI	PμPsP±C-C†PSC- CḡPμP°PeC†C-C—	P"CrC, P°CḡC, PμCḡPëPr C, P°PjCḡCḡP»PsP·PëPS"	P"CrC, P°CḡC, PμCḡPëPr	PjP°PjCḡCḡP»PsP·PëPS
P— P±PsPeCḡ PSPμCḡPIPpsPIC— CḡPëCḡC, PμPjPë	PSPμPiCḡPëC, PsPjPSC-CḡC, Ch P·P°PiP°PjPsCḡPsC†PμPSPSCḡ PiPsP»PsPIPSPëPNë P±C-P»Ch	- C†P°CḡC, Ps -	- -	CḡC-PrPePs C†P°CḡC, Ps PSPμC†P°CḡC, Ps
P— P±PsPeCḡ CḡPμCḡC†Cḡ	B CḡPμCḡC†PμPIP° PSPμPrPsCḡC, P°C, PSC-CḡC, Ch (P·P±C-CḡPSPμ PiPsPSCḡC, C, Cl ¹) PiPsCḡPëP»PμPSPμ CḡPμCḡC†PμP±PëC, C, Cl	PSPμC†P°CḡC, Ps -	PSPμC†P°CḡC, Ps ^d -	- PSPμC†P°CḡC, Ps
P— P±PsPeCḡ CḡCḡPrPëPSPSPsC— CḡPëCḡC, PμPjPë	PiPsCḡC, CḡCḡP°P»ChPSP° PiC-PiPμC, PμPSP·C-Cl	- -	- -	PSPμC†P°CḡC, Ps
P— P±PsPeCḡ PrPëC... P°P»ChPSPsC— CḡPëCḡC, PμPjPë, PsCḡPiP°PSC-PI PiCḡCḡPrPSPsC— PeP»C-C, PePë C- CḡPμCḡPμPrPsCḡC, C-PSPSCḡ	CḡPëPSC-C, -	- -	- -	PSPμC†P°CḡC, Ps
P— P±PsPeCḡ CḡP»CḡPSPePsPiPs- PePëCḡPePsPiPs C, CḡP°PeC, Cr	P·P°PiPsCḡ PrC-P°CḡPμCl PSCḡPrPsC, P° P±P»CḡPIP°PSPSCḡ	- - - -	- - - -	PSPμC†P°CḡC, Ps PSPμC†P°CḡC, Ps PSPμC†P°CḡC, Ps PSPμC†P°CḡC, Ps
P— P±PsPeCḡ CḡPeC-CḡPë C, P° PiC-PrCḡPeC-CḡPSPëC... C, PeP°PSPëPS	P°PSPiC-PsPSPμPiCḡPsC, PëC†PSPëPNë- PSP°P±CḡClPe CḡPëPSPrCḡPsPj PḢC, C-PiPμPSCḡP° вḡ" P"¶PpsPSCḡPsPSP° PeCḡPsPiPëPiḡḡ" ClPSPeP° PiPëCḡPëPiP°PSPSCḡ CḡPiPμCḡP±C-P¶	- - - - - -	- - - - -	CḡC-PrPePs PrCḡP¶Pμ CḡC-PrPePs PSPμC†P°CḡC, Ps PSPμC†P°CḡC, Ps PSPμC†P°CḡC, Ps
P— P±PsPeCḡ CḡPμPiCḡPsPrCḡPeC, PëPI-PSPsC— CḡPëCḡC, PμPjPë C- PiCḡCḡPrPSPëC... P·P°P»PsP·	PiCḡC-P°PiC-P·Pj C-PjPiPsC, PμPSC†C-Cl ³ PiPsCḡCḡCḡPμPSPSCḡ ³ (P·PSPëP¶PμPSPSCḡ) P»C-P±C-PrPs PiPsCḡCḡCḡPμPSPSCḡ ^{3°} PμClPeCḡP»ClC†C-C— P·P°C... PiPsCḡCḡPiP°PSPSCḡ PiCḡCḡPrPSPëC... P·P°P»PsP· ²	C†P°CḡC, Ps C†P°CḡC, Ps C†P°CḡC, Ps C†P°CḡC, Ps C†P°CḡC, Ps C†P°CḡC, Ps	C†P°CḡC, Ps ^b C†P°CḡC, Ps ^b C†P°CḡC, Ps ^b C†P°CḡC, Ps ^b C†P°CḡC, Ps ^b C†P°CḡC, Ps ^b	- - - C†P°CḡC, Ps -
P—P°PiP°P»ChPSC- CḡPsP·P»P°PrPë	P°CḡC, PμPSC-Cl	-	-	PSPμC†P°CḡC, Ps

^a P"CrC, P°CḡC, PμCḡPëPr C, P°PjCḡCḡP»PsP·PëPS: Cr PrPsCḡP»C-PrP¶PμPSPSC- CombAT
C†P°CḡC, PsC, P° C†PëC... PiPsP±C-C†PSPëC... CḡPμP°PeC†C-PNë P·PSPëP¶CḡC" C, ChCḡCḡCl P·
PePsP¶PSPëPj PSP°CḡC, CrPiPSPëPj CḡPsPePsPj P· 1-PiPs PrPs 4-PiPs.

^b P— PrPsCḡP»C-PrP¶PμPSCḡ PjPsPSPsC, PμCḡP°PiC-C— PrPsP±CḡPsCḡPeC-CḡPSPsC—
PiC-PiPμCḡPiP»P°P·C-C— PiPμCḡPμPrPjC-C... CrCḡPsPiPsC— P·P°P»PsP·Pë
PrCḡC, P°CḡC, PμCḡPëPrPsPj.

^c P — PsCÍPSPsPIPSsC — C-PSC,,PsCĤPjP°C†C-C — P· P±PμP·PīPμPePē
C,P°PjCÍCÍP»PsP·PēPSCÍ PrP»CĬ PeCĤP°C — PS P•PŸ.

^d P''PsCÍP»C-PrP¶PμPSPSCĬ REDUCE.

¹ P — P±C-CĤPSPμ PīPsPSCĬC,C,CĬ B«CÍPμCĤC†PμPIP°
PSPμPrPsCÍC,P°C,PSC-CÍC,CHB» PIPeP»CĤC†P°C'' P·P°CÍC,C-PNēPSCÍ
CÍPμCĤC†PμPICÍ PSPμPrPsCÍC,P°C,PSC-CÍC,CH, CÍPμCĤC†PμPICÍ
PSPμPrPsCÍC,P°C,PSC-CÍC,CH, PSPμPrPsCÍC,P°C,PSC-CÍC,CH P»C-PIPsPiPs
C€P»CÍPSPsC†PeP°, PiPsCÍC,CĤCÍ CÍPμCĤC†PμPICÍ PSPμPrPsCÍC,P°C,PSC-CÍC,CH,
PeP°CĤPrC-PsPiPμPSPSPēPNē C€PsPe, PiPsCÍC,CĤCÍ PSPμPrPsCÍC,P°C,PSC-CÍC,CH
P»C-PIPsPiPs C€P»CÍPSPsC†PeP°, PSPμPrPsCÍC,P°C,PSC-CÍC,CH PīCĤP°PIPsPiPs
C€P»CÍPSPsC†PeP°, PiPsCÍC,CĤCÍ PSPμPrPsCÍC,P°C,PSC-CÍC,CH PīCĤP°PIPsPiPs
C€P»CÍPSPsC†PeP°, PSPμPrPsCÍC,P°C,PSC-CÍC,CH C€P»CÍPSPsC†PeP°,
PeP°CĤPrC-PsPīCÍP»CHBjPsPSP°P»CHBPSCÍ PSPμPrPsCÍC,P°C,PSC-CÍC,CH,
P·P°CÍC,C-PNēPSCÍ PeP°CĤPrC-PsPīP°C,C-CH.

² P'PeP»CĤC†P°CĤC†Pē PiC-PīPμCĤPμCÍC,PμP·C-CH C,P° P·P±C-P»CHC€PμPSPSCĬ
PīCĤCÍPrPSPēC... P·P°P»PsP·.

³ PīPsP±C-C†PSC- CĤPμP°PeC†C-C —, PīPsPIBĤ™ CĬP·P°PSC- P· PīPsCĤCÍC€PμPSPSCĬPj
CÍPμPeCÍCÍP°P»CHBPSPsC — C,,CÍPSPeC†C-C —, P°CÍPsC†C-CHCĤC,CHCÍCĬ P·
P»C-PeCÍPIP°PSPSCĬPj PrCÍC,P°CÍC,PμCĤPēPrPsPj (PIPeP»CĤC†P°CĤC†Pē
PjPsPSPsC,PμCĤP°PiC-CH C,P° PePsPjP±C-PSP°C†C-CH P· C,P°PjCÍCÍP»PsP·PēPSPsPj). PīC-
PīPsP±C-C†PSC- CĤPμP°PeC†C-C — PjPsP¶CÍC,CH C,CĤPēPIP°C,Pē PīC-CÍP»CĬ
PīCĤPēPīPēPSPμPSPSCĬ P»C-PeCÍPIP°PSPSCĬ. P'PīP»PēPI PrCÍC,P°CÍC,PμCĤPēPrCÍ PSP°
C — C... C,CĤPēPIP°P»C-CÍC,CH PSPμPIC-PrPsPjP°.

^ P'PeP»CĤC†P°CĤC†Pē P·PjPμPSC€PμPSPSCĬ PsP±BĤ™ C''PjCÍ CÍPīPμCĤPjPē.

P''P°PSC- PīPsCÍC,PjP°CĤPePμC,PēPSPiPsPIPēC... PrPsCÍP»C-PrP¶PμPSCĤ

Pj PīPsCÍC,PjP°CĤPePμC,PēPSPiPsPIPsPjCÍ CÍPīPsCÍC,PμCĤPμP¶PμPSPSC- PīPsP±C-C†PSC-
CĤPμP°PeC†C-C — C,,C-PeCÍCÍPIP°P»PēCÍCĬ P·C- CÍPīPsPSC,P°PSPSPēC...
PīPsPIC-PrPsPjP»PμPSCĤ, C,PsPjCÍ C,PsC†PSP° C†P°CÍC,PsC,P° C,P°PePēC... CĤPμP°PeC†C-PNē
PSPμPIC-PrPsPjP°.

PĤPsPSPsC,PμCĤP°PiC-CĬ PrCÍC,P°CÍC,PμCĤPēPrPsPj

P — P±PsPeCž C-PjCžPSPSPsC — CÍPēCÍC,PμPjPē

PŠP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: P°P»PμCĤPiC-C†PSC- CĤPμP°PeC†C-C —,
PIPeP»CĤC†P°CĤC†Pē PIPēCÍPēPīP°PSPSCĬ, CÍPIPμCĤP±C-P¶, PeCĤPsPīPēPIBĤ™ CĬPSPeCÍ,
P»PsPeP°P»C-P·PsPIP°PSPēPNē PSP°P±CĤCĬPe C,P° P°PSPiC-PsPSPμPICĤPsC,PēC†PSPēPNē
PSP°P±CĤCĬPe.

P — P±PsPeCž PīCÍPēC...C-PePē

PŠP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: PrPμPīCĤPμCÍC-CĬ.

$P - P \pm PsPeC \acute{e} C \epsilon PeC - C \bar{H} P \ddot{e} C, P^{\circ} PiC - PrC \epsilon PeC - C \bar{H} P S P S C - PeP \gg C - C, PePsPIP \ddot{e} P S P \ddot{e}$

$P C - PrPePs: P^{\circ} P \gg PsPiP \mu C \dagger C - C \bar{C} \bar{C} (PiPsP \gg PsPIP S P \ddot{e} P j C \ddagger P \ddot{e} P S P S P j, PIC, C \bar{H} P^{\circ} C, P^{\circ} PIPsP \gg PsC \bar{C} \bar{C} \bar{C} \bar{C} \bar{C} P S P^{\circ} C, C - P \gg C -), PiC - PiP \mu C \bar{H} C, C \bar{H} P \ddot{e} C \dots PsP \cdot$

$P - P \pm PsPeC \acute{e} C \bar{H} P \mu PiC \bar{H} PsPrC \acute{e} PeC, P \ddot{e} PIP S P S C - C \bar{C} \bar{P} \ddot{e} C \bar{C} \bar{C}, P \mu P j P \ddot{e} C, P^{\circ} PiC \bar{H} C \acute{e} PrP S P \ddot{e} C \dots P \cdot P^{\circ} P \gg PsP \cdot$

$P \S P^{\circ} C \bar{C} \bar{C}, PsC, P^{\circ} P S P \mu PIC - PrPsP j P^{\circ}: C, P \mu C \bar{C} \bar{C}, P \ddot{e} PeC \bar{C} P \gg C \bar{C} \bar{C} \bar{H} P S P \ddot{e} P N \ddot{e} P \pm C - P \gg C \bar{H} C, P^{\circ} P S P^{\circ} P \pm C \bar{H} C \bar{C} P \epsilon.$

$P \bar{H} PsP S P S C, P \mu C \bar{H} P^{\circ} PiC - C \bar{C} C, P^{\circ} P j C \bar{C} \bar{C} P \gg PsP \cdot P \ddot{e} P S P S P j$

$P - P^{\circ} PrP^{\circ} P S P \ddot{e} P j P \ddot{e} PiPsC \bar{C} \bar{C}, P j P^{\circ} C \bar{H} PeP \mu C, P \ddot{e} P S PiPsPIP S PiPs C \bar{C} \bar{C} PiPsC \bar{C} \bar{C}, P \mu C \bar{H} P \mu P \bar{C} P \mu P S P S C \bar{C} \bar{C} PiC - Pr C \ddagger P^{\circ} C \bar{C} PsPiP \mu C \bar{H} P^{\circ} C \dagger C - C - P \cdot PiC \bar{H} P \ddot{e} PIP S PrC \bar{C} PeP^{\circ} C, P^{\circ} C \bar{H} P^{\circ} PeC, P \ddot{e} C, P^{\circ} PiP \gg P^{\circ} C \bar{C} PePsP j P \ddot{e} C \bar{C} PrP \mu C \bar{C} P \epsilon P \ddot{e} C \dots PiP^{\circ} C \dagger C - C^{\circ} P S C, C - PI, C \bar{C} P \epsilon C - C \bar{H} P^{\circ} P S C - C \epsilon P \mu PsC, C \bar{H} P \ddot{e} P j C \bar{C} PIP^{\circ} P \gg P \ddot{e} \alpha 1 - P^{\circ} PrC \bar{H} P \mu P S P S P \pm P \gg PsPeP^{\circ} C, PsC \bar{H} P \ddot{e}, PIP \epsilon P \gg C \bar{H} C \ddagger P^{\circ} C \bar{H} C \ddagger P \ddot{e} C, P^{\circ} P j C \bar{C} \bar{C} P \gg PsP \cdot P \ddot{e} P S, P \pm C \bar{C} PI PIC - PrP \cdot P S P^{\circ} C \ddagger P \mu P S P \ddot{e} P N \ddot{e} C - P S C, C \bar{H} P^{\circ} PsPiP \mu C \bar{H} P^{\circ} C \dagger C - P N \ddot{e} P S P \ddot{e} P N \ddot{e} C \bar{C} \bar{C} P \ddot{e} P S PrC \bar{H} PsP j P^{\circ} C, PsP S C - C \ddagger P S P S C - C \bar{H} P^{\circ} P N \ddot{e} PrC \bar{C} P \bar{C} P \epsilon P \ddot{e} (P \dagger P \ddot{Y} P \bar{H} P, PIP^{\circ} C \bar{H} C - P^{\circ} P S C, C \bar{C} \bar{C} P \ddot{e} P S PrC \bar{H} PsP j C \bar{C} PIC \bar{C} P \cdot C \bar{H} PePsC - P \cdot C - P S P \ddot{e} C \dagger C -) (PrP \ddot{e} PI. C \bar{H} PsP \cdot PrC - P \gg B \langle PhC \bar{C} \bar{C} PsP \pm P \gg P \ddot{e} PIP S C \bar{C} \bar{C}, C - P \cdot P^{\circ} C \bar{C} \bar{C}, PsC \bar{C} \bar{C} PIP^{\circ} P S P S C \bar{C} \bar{C} B \rangle).$

$P \mu C - Pr C \ddagger P^{\circ} C \bar{C} PiC - C \bar{C} P \gg C \bar{C} \bar{C} \bar{H} P \mu C^{\circ} C \bar{C} \bar{C}, C \bar{H} P^{\circ} C \dagger C - P N \ddot{e} P S P S PiPs P \cdot P^{\circ} C \bar{C} \bar{C}, PsC \bar{C} \bar{C} PIP^{\circ} P S P S C \bar{C} \bar{C} P \pm C \bar{C} P \gg P \ddot{e} PrPsPrP^{\circ} C, PePsPIC - PiPsPIC - PrPsP j P \gg P \mu P S P S C \bar{C} \bar{C} PiC \bar{H} Ps PIP \ddot{e} PiP^{\circ} PrPeP \ddot{e} C, C - P \pm C \bar{H} P \ddot{e} P \gg C \bar{C} \bar{C} \dagger C - C - PiP \mu C \bar{H} P \mu PrC \bar{C} P \mu C \bar{H} PrC \bar{H}, P^{\circ} C \bar{H} P \ddot{e} C, P j C - C -, C, P^{\circ} C \dots C - PeP^{\circ} C \bar{H} PrC - C -, PrP \ddot{e} C \bar{C} \bar{C} PiP S P S P \mu, P S P S C \bar{C} \bar{C} PsPIP \ddot{e} C \dots PeC \bar{H} PsPIP S C, P \mu C \ddagger, PiPsC \bar{H} C \bar{C} C \epsilon P \mu P S C \bar{H} P \cdot PsC \bar{H} C \bar{C}, PI C, C \ddagger. C \bar{C} PIP \ddot{e} PiP \gg C \bar{C} \bar{C} PrC - P \cdot P S P \ddot{e} P \bar{C} P \mu P S P S C \bar{C} \bar{C} P N \ddot{e} PsPiPs PiPsC \bar{C} \bar{C}, C \bar{H} PsC, P \ddot{e}, P j C \bar{C} P \gg C \bar{H} C, P \ddot{e} C, PsC \bar{H} P j P S P S C - P \mu C \bar{H} P \ddot{e} C, P \mu P j P \ddot{e}, P \mu PeC \bar{C} \bar{C}, PsP \gg C - P^{\circ} C, P \ddot{e} PIP S P S PiPs PrP \mu C \bar{H} P j P^{\circ} C, P \ddot{e} C, C \bar{C} C, P^{\circ} C \bar{C} \bar{C} C \dots PsC \bar{C} \bar{C}, C - C \bar{C} P \gg P \ddot{e} P \cdot PsPIP S C - PsP \pm PsP \gg PsP S P \ddot{e} C \bar{H} PsC, PsPIP S C - PiPsC \bar{H} PsP \bar{C} P S P \ddot{e} P S P \ddot{e}, P^{\circ} C \bar{C} \bar{C} P S C \dagger C - P N \ddot{e} PsPIP^{\circ} P S C - C - P \cdot P \cdot P^{\circ} C \bar{C} \bar{C}, PsC \bar{C} \bar{C} PIP^{\circ} P S P S C \bar{C} \bar{C} P j C, P^{\circ} P j C \bar{C} \bar{C} P \gg PsP \cdot P \ddot{e} P S C \bar{C}.$

$P \dagger P S C \epsilon C - PrP^{\circ} P S C -$

$P j C \dots PsPrC - PeP \gg C - P S C - C \ddagger P S P S PiPs PrPsC \bar{C} \bar{C} P \gg C - PrP \bar{C} P \mu P S P S C \bar{C} \bar{C} (PrPsC \bar{C} \bar{C} P \gg C - PrP \bar{C} P \mu P S P S C \bar{C} \bar{C} REDUCE) C \bar{C} C \ddagger PsP \gg PsPIC - PeC - PI, C \bar{C} P \epsilon C - P \gg C - PeC \bar{C} PIP^{\circ} P \gg P \ddot{e} C \bar{C} \bar{C} \bar{C} PrC \bar{C} \bar{C}, P^{\circ} C \bar{C} \bar{C}, P \mu C \bar{H} P \ddot{e} PrPsP j, PIC - PrP \cdot P S P^{\circ} C \ddagger P^{\circ} P \gg P^{\circ} C \bar{C} \bar{C} \bar{H} PIP \ddot{e} C \% P^{\circ} C \ddagger P^{\circ} C \bar{C} \bar{C}, PsC, P^{\circ} PIP \ddot{e} P S P \ddot{e} PeP S P \mu P S P S C \bar{C} \bar{C} C \bar{H} P^{\circ} PeC \bar{C} PiP \mu C \bar{H} P \mu PrP j C - C \dots C \bar{C} \bar{C} \bar{H} PsPIP S C - P \cdot P^{\circ} P \gg PsP \cdot P \ddot{e} (P \cdot P^{\circ} C \epsilon PeP^{\circ} P \gg PsC \bar{H} P^{\circ} P \gg C - C \bar{C} \bar{C} P S P S P^{\circ} B \bar{H}^{\circ} 8 B \bar{H}^{\circ} 10) PiPsC \bar{H} C - PIP S C \bar{C} \bar{C} P S P S P \cdot PiC \bar{H} C \bar{C} PiPsC \bar{H} PiP \gg P^{\circ} C \dagger P \mu P \pm Ps (PrP \ddot{e} PI. C \bar{H} PsP \cdot PrC - P \gg P \ddot{e} B \langle P \alpha P^{\circ} C \bar{H} P j P^{\circ} PePsP \gg PsPiC - C \ddagger P S C - PIP \gg P^{\circ} C \bar{C} \bar{C}, P \ddot{e} PIP S C \bar{C} \bar{C}, C - B \rangle C, P^{\circ} B \langle PhC \bar{C} \bar{C} PsP \pm P \gg P \ddot{e} PIP S C \bar{C} \bar{C}, C - P \cdot P^{\circ} C \bar{C} \bar{C}, PsC \bar{C} \bar{C} PIP^{\circ} P S P S C \bar{C} \bar{C} B \rangle). P \mu C \bar{H} P \ddot{e} C \ddagger P \ddot{e} P S P S P S PiPs P \cdot PiB \bar{H}^{\circ} C \bar{C} P \cdot PeC \bar{C} P j C - P \bar{C} P \cdot P^{\circ} C \bar{C} \bar{C}, PsC \bar{C} \bar{C} PIP^{\circ} P S P S C \bar{C} \bar{C} P j PrC \bar{C} \bar{C}, P^{\circ} C \bar{C} \bar{C}, P \mu C \bar{H} P \ddot{e} PrC \bar{C} C, P^{\circ} PIP \ddot{e} P S P \ddot{e} PeP S P \mu P S P S C \bar{C} \bar{C} P j C \bar{H} P^{\circ} PeC \bar{C} PiP \mu C \bar{H} P \mu PrP j C - C \dots C \bar{C} \bar{C} \bar{H} PsPIP S C - P \cdot P^{\circ} P \gg PsP \cdot P \ddot{e} PIP \ddot{e} C \bar{C} \bar{C} PsPePsC - PiC \bar{H} P^{\circ} PrP^{\circ} C \dagger C - C - P \cdot P^{\circ} P^{\circ} P \gg C - C \bar{C} \bar{C} P S P S P j PIC \bar{C} \bar{C}, P^{\circ} P S P S PIP \gg P \mu P S P S P S P \mu P \pm C \bar{C} P \gg Ps.$

$P - P^{\circ} PrP^{\circ} P S P \ddot{e} P j P \ddot{e} PeP \gg C - P S C - C \ddagger P S P \ddot{e} C \dots PrPsC \bar{C} \bar{C} P \gg C - PrP \bar{C} P \mu P S C \bar{H} C, P^{\circ} PiPsC \bar{C} \bar{C}, P j P^{\circ} C \bar{H} PeP \mu C, P \ddot{e} P S PiPsPIP \ddot{e} C \dots C \bar{C} \bar{C} PiPsC \bar{C} \bar{C}, P \mu C \bar{H} P \mu P \bar{C} P \mu P S C \bar{H} C P \pm C \bar{C} P \gg P \ddot{e} PiPsPIC - PrPsP j P \gg P \mu P S P S C \bar{C} \bar{C} PiC \bar{H} Ps PIP \ddot{e} PiP^{\circ} PrPeP \ddot{e} C \bar{H} P^{\circ} PeC \bar{C} PiC \bar{H} C \bar{C} PrP S P S C - P \cdot P^{\circ} P \gg PsP \cdot P \ddot{e} C \bar{C} C \ddagger PsP \gg PsPIC - PeC - PI (PrP \ddot{e} PI. C \bar{H} PsP \cdot PrC - P \gg B \langle PhC \bar{C} \bar{C} PsP \pm P \gg P \ddot{e} PIP S C \bar{C} \bar{C}, C - P \cdot P^{\circ} C \bar{C} \bar{C}, PsC \bar{C} \bar{C} PIP^{\circ} P S P S C \bar{C} \bar{C} B \rangle).$

PŸPµCḡPjC-PS PïCḡPëPrP°C,PSPsCÍC,C-.

3 CḡPsPePë.

PJPjPsPIPë P•P±PµCḡC-PiP°PSPSCII.

P—P±PµCḡC-PiP°C,Pë PI PsCḡPëPiC-PSP°P»CHḡPSC-PNë CÍPïP°PePsPIC†C- PïCḡPë C,PµPjPïPµCḡP°C,CÍCḡC- PSPµ PIPëC‰Pµ 25 B°PŸ.

P—P±PµCḡC-PiP°C,Pë CÍ PSPµPrPsCÍC,CÍPïPSPsPjCÍ PrP»CII PrC-C,PµPNë PjC-CÍC†C-.

PJPïP°PePsPIPëP°.

PµPs 6 PeP°PïCÍCÍP» C,PIPµCḡPrPëC... CÍ P±P»C-CÍC,PµCḡC-, PïPs 5 P±P»C-CÍC,PµCḡC-PI CÍ PïP°C†C†C-. PµPs 9 PeP°PïCÍCÍP» C,PIPµCḡPrPëC... CÍ P±P»C-CÍC,PµCḡC-, PïPs 10 P±P»C-CÍC,PµCḡC-PI CÍ PïP°C†C†C-.

PḡP°C,PµPiPsCḡC-CII PIC-PrPïCÍCÍPëCÍ. P—P° CḡPµC†PµPïC,PsPj.

P’PëCḡPsP±PSPëPe.

PŸPḡP“ PḡPḡPḡPJPḡPḡPḡPŸPJP P†PḡP“, PŸ.P>.PJ., P†CÍPïP°PSC-CII/

SAG MANUFACTURING, S.L.U., Spain.

PḡC-CÍC†PµP•PSP°C...PsPrP¶PµPSPSCII PIPëCḡPsP±PSPëPeP° C,P° P°PrCḡPµCÍP° PjC-CÍC†CII PïCḡPsPIP°PrP¶PµPSPSCII PNëPsPiPs PrC-CIIP»CHḡPSPsCÍC,C-.

PḡP°CḡCḡPµC,PµCḡP° PḡP°C†C-PsPSP°P» 1 PḡPj 36, PŸP°PS PḡPiCÍCÍC,C-PS PrPµP»CHḡ P“PIP°PrP°P»C-PëCÍ, 28750 PḡP°PrCḡPëPr P†CÍPïP°PSC-CII / Carretera Nacional 1 Km 36, San Agustin del Guadalix, 28750 Madrid Spain.