

P†PќPŸPŸP PЈPљPіP†Pї

**PrP»Cї PјPμPrPëC‡PSPsPiPs P·P°CЃC,PsCЃCѓPIP°PSPSCї P»C-PeP°CЃCЃCHPePsPiPs
P·P°CЃPsP±Cѓ**

P>P†PμPhP'PhPќ

(LİOBON)

PŸPeP»P°Pr:

PrC-CHC‡P° CЃPμC‡PsPIPëPSP°: PμP·PμC,PëPјC-P±;

1 C,P°P±P»PμC,PeP° PјC-CЃC,PëC,CH PμP·PμC,PëPјC-P±Cѓ 10 PјPi;

*PrPsPiPsPјC-P¶PSC- CЃPμC‡PsPIPëPSPë: C†PμP»CHP»PsP·P°
PјC-PeCЃPsPeCЃPëCЃC,P°P»C-C‡PSP°, PјP°PSC-C,PsP», PSP°C,CЃC-CH
PeCЃPsCЃPeP°CЃPјPμP»PsP·P°, PiC-PrCЃPsPeCЃPëPiCЃPsPiC-P»C†PμP»CHP»PsP·P°
PSPëP·CHPePsP·P°PјC-C‰PμPSP°, PiPsPIC-PrPsPS-Pљ25, PSP°C,CЃC-CH
P»P°CѓCЃPëP»CЃCѓP»CHC„P°C„, PјP°PiPSC-CH CЃC,PμP°CЃP°C,.*

P>C-PeP°CЃCЃCHPeP° C„PsCЃPјP°. PŸP°P±P»PμC,PePë.

*PhCЃPSPsPIPS- C„C-P·PëPePs-C...C-PјC-C‡PSC- PIP»P°CЃC,PëPIPsCЃC,C-: P±C-P»PsPiPs
P°P±Ps PјP°P№P¶Pμ P±C-P»PsPiPs PePsP»CHPsCЃCѓ PiCЃPsPrPsPIPiCѓPIP°C,C-
C,P°P±P»PμC,PePë P· PePsPrPsPј B«E 611B» P· PsPrPSPsPiPs P±PsPeCѓ C,P° P±PμP·
P¶PsPrPSPëC... PiCЃP°PIC-CHPIP°PSCH P· C-PSC€PsPiPs P±PsPeCѓ.*

PќP°CЃPјP°PePsC,PμCЃP°PiPμPIC,PëC‡PSP° PiCЃCѓPiP°.

P†PSC€C- P»C-PiC-PrPsPјPsPrPëC„C-PeCѓCHC‡C- P·P°CЃPsP±Pë. PљPsPr PђPŸPЃ C10A X09.

PќP°CЃPјP°PePsP»PsPiC-C‡PSC- PIP»P°CЃC,PëPIPsCЃC,C-.

PќP°CЃPјP°PePsPrPëPSP°PјC-PeP°.

PђPμC...P°PSC-P·Pј PrC-C—

*P·P·PμC,PëPјC-P± BЃ“ C†Pμ PiCЃPμPrCЃC,P°PIPSPëPe PSPsPIPsPiPs PeP»P°CЃCѓ
P»C-PiC-PrPsP·PSPëP¶CѓPIP°P»CHPSPëC... CЃPμC‡PsPIPëPS, CїPeC- CЃPμP»PμPeC,PëPIPSPs
PiCЃPëPiPSC-C‡CѓCHC,CH C-PSC,PμCЃC,PëPSP°P»CHPSCѓ P°P±CЃPsCЃP±C†C-CH
C...PsP»PμCЃC,PμCЃPëPSCѓ C,P° PIC-PrPiPsPIC-PrPSPëC... CЃPsCЃP»PëPSPSPëC...
CЃC,PμCЃPsP»C-PI.B P·P·PμC,PëPјC-P± C” PiPμCЃPsCЃP°P»CHPSPs P°PeC,PëPIPSPëPј C,P°*

PjP°C" PjPμC...P°PSC-P·Pj PrC-C—, PIC-PrPjC-PSPSPëPNë PIC-Pr C-PSCëPëC... PeP»P°CÍC-PI
C...PsP»PμCÍC,PμCĤPëPSPsP·PSPëP¶CÍPIP°P»CHPSPëC... PíCĤPμPíP°CĤP°C,C-PI
(PSP°PíCĤPëPeP»P°Pr, CÍC,P°C,PëPSC-PI, CÍPμPePIPμCÍC,CĤP°PSC,C-PI P¶PsPIC±PSPëC...
PePëCÍP»PsC, (CÍPjPsP»Pë), PePëCÍP»PsC,PSPëC... PíPsC...C-PrPSPëC... C,,C-P±CĤP°C,C-PI C,P°
CĤPsCÍP»PëPSPSPëC... CÍC,P°PSPsP»C-PI). PĥPsP»PμPeCÍP»CÍCĤPSPsCĤ PjC-CëPμPSPSCĤ
PμP·PμC,PëPjC-P±CÍ C" PíPμCĤPμPSPsCÍPSPëPe CÍC,PμCĤPsP»C-PI Niemann-Pick Cl-Like 1
(NPC1L1), C%Ps PIC-PrPíPsPIC-PrP°C" P·P° PICÍPjPsPeC,CÍPIP°PSPSCÍ
C...PsP»PμCÍC,PμCĤPëPSCÍ C,P° C,,C-C,PscÍC,PμCĤPsP»C-PI CÍ PePëCëPμC±PSPëPeCÍ.

P·P·PμC,PëPjC-P± P»PsPeP°P»C-P·CÍC"C,CHCÍCÍ PSP° C%C-C,PePsPIC-PNë CÍPjCÍP¶C†C-
C,PsPSPePsC— PePëCëPePë C- PíCĤPëPiPSC-C±CÍC" P°P±CÍPsCĤP±C†C-CĤ
C...PsP»PμCÍC,PμCĤPëPSCÍ, P·PjPμPSCëCÍCĤC±Pë PrPsCÍC,P°PIPeCÍ
C-PSC,PμCÍC,PëPSP°P»CHPSPsPiPs C...PsP»PμCÍC,PμCĤPëPSCÍ CÍ PíPμC±C-PSPeCÍ;
CÍC,P°C,PëPSPë P·PSPëP¶CÍCĤC,CH CÍPëPSC,PμP· C...PsP»PμCÍC,PμCĤPëPSCÍ CÍ
PíPμC±C-PSC†C-, C- CĤP°P·PsPj C†C- PjPμC...P°PSC-P·PjPë P·P°P±PμP·PíPμC±CÍCĤC,CH
PrPsPrP°C,PePsPIPμ P·PSPëP¶PμPSPSCÍ C...PsP»PμCÍC,PμCĤPëPSCÍ. PμC-CÍP»CÍ
PrPIPsC,PëP¶PSPμPIPsPiPs PeP»C-PSC-C±PSPsPiPs P·P°CÍC,PscÍCÍPIP°PSPSCÍ CÍ 18
PíP°C†C-C"PSC,C-PI P· PíC-PíPμCĤC...PsP»PμCÍC,PμCĤPëPSPμPjC-C"CĤ PμP·PμC,PëPjC-P± PSP°
54 % P·PSPëP¶CÍPIP°PI P°P±CÍPsCĤP±C†C-CĤ C...PsP»PμCÍC,PμCĤPëPSCÍ
PíPsCĤC-PIPSCIIPSPs P· PíP»P°C†PμP±Ps.

PμP°CĤPjP°PePsPrPëPSP°PjC-C±PSC- PμC,,PμPeC,Pë

P'CÍP»P° PíCĤPsPIPμPrPμPSP° CÍPμCĤC-CÍ PrPsPeP»C-PSC-C±PSPëC...
PrPsCÍP»C-PrP¶PμPSCĤ PrP»CÍ PIPëP·PSP°C±PμPSPSCÍ CÍPμP»PμPeC,PëPIPSsCÍC,C-
PμP·PμC,PëPjC-P±CÍ C%PsPrPs PíCĤPëPiPSC-C±PμPSPSCÍ P°P±CÍPsCĤP±C†C-C—
C...PsP»PμCÍC,PμCĤPëPSCÍ. P·P·PμC,PëPjC-P± PíCĤPëPiPSC-C±CÍPIP°PI
P°P±CÍPsCĤP±C†C-CĤ [14C]-C...PsP»PμCÍC,PμCĤPëPSCÍ P±PμP· PIPíP»PëPICÍ PSP°
P°P±CÍPsCĤP±C†C-CĤ C,CĤPëPiP»C-C†PμCĤPëPrC-PI, P¶PëCĤPSPëC... PePëCÍP»PsC,,
P¶PsPIC±PSPëC... PePëCÍP»PsC,, PíCĤPsPiPμCÍC,PμCĤPsPSCÍ,
PμC,PëPSC-P»PμCÍC,CĤP°PrC-PsP»CÍ P°P±Ps P¶PëCĤPsCĤPsP·C±PëPSPSPëC...
PIC-C,P°PjC-PSC-PI Pĥ C- D.

P·PíC-PrPμPjC-PsP»PsPiC-C±PSC- PrPsCÍP»C-PrP¶PμPSPSCÍ PICÍC,P°PSPsPIPëP»Pë, C%Ps
CÍPμCĤC†PμPIPs-CÍCÍPrPëPSPSP° P·P°C...PIPsCĤCĤPIP°PSC-CÍC,CH C,P°
P»PμC,P°P»CHPSC-CÍC,CH P·PjC-PSCĤCĤC,CHCÍCÍ CÍ PíCĤCÍPjC-PNë
P·P°P»PμP¶PSPsCÍC,C- PIC-Pr CĤC-PIPSCI P·P°PíP°P»CHPSPsPiPs C...PsP»PμCÍC,PμCĤPëPSCÍ
C,P° PÍPŸ P·PμPëP© C,P° PI PsP±PμCĤPSPμPSC-PNë PIC-Pr CĤC-PIPSCI PÍPŸ P·PμP°P©.

P—P°CÍC,PscÍCÍPIP°PSPSCÍ PμP·PμC,PëPjC-P±CÍ P·C- CÍC,P°C,PëPSPsPj PμC,,PμPeC,PëPIPSs
P·PSPëP¶CÍC" CĤPëP·PëPe CÍPμCĤC†PμPIPs-CÍCÍPrPëPSPSPëC... PíPsPrC-PNë CÍ
PíP°C†C-C"PSC,C-PI P· C-CëPμPjC-C±PSPsCĤ C...PIPsCĤPsP±PsCĤ CÍPμCĤC†CÍ C,P°
PíPsCÍC,CĤPëPj PePsCĤPsPSP°CĤPSPëPj CÍPëPSPrCĤPsPjPsPj (P"PŸ) PI P°PSP°PjPSPμP·C-.

PŸP»C-PSC-C±PSP° PμC,,PμPeC,PëPIPS-CÍC,CH C,P° P±PμP·PíPμPeP°

Pj PePsPSC,CĤPsP»CHPSPiP°PSPëC... PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PμPSPSCÍC...
PμP·PμC,PëPjC-P± CÍ CÍPePsCÍC,C- PjPsPSPsC,PμCĤP°PíC-C—, P° C,P°PePsP¶ C-P·
CÍCÍPíCÍC,PSC-Pj P·P°CÍC,PscÍCÍPIP°PSPSCÍPj P·C- CÍC,P°C,PëPSPsPj P·PSP°C±PSPs
P·PSPëP¶CÍPIP°PI P·P°PíP°P»CHPSPëPNë C...PsP»PμCÍC,PμCĤPëPS (P·P°PíP°P»CHPSPëPNë

ГПҮ), C...PsP»PμCΓC, PμC҃PēPS P»C-PiPsPiC҃PsC, PμC—PSC-PI PSPēP·CHPePsC—
C%oC-P»CHPSPsCΓC, C- (ГПҮ P»PμPкP©), P°PiPsP»C-PiPsPiC҃PsC, PμC—PS P' (P҃PiPs-P') C, P°
C, C҃PēPiP»C-C†PμC҃PēPrPē (P҃P") C- PiC-PrPiPēC%oC†PiP°PI C...PsP»PμCΓC, PμC҃PēPS
P»C-PiPsPiC҃PsC, PμC—PSC-PI PiPēCΓPsPePsC— C%oC-P»CHPSPsCΓC, C- (ГПҮ P»PμP'P©) C†
PiP°C†C-C" PSC, C-PI C-P· PiC-PiPμC҃C...PsP»PμCΓC, PμC҃PēPSPμPjC-C" C҃.

PμPμC҃PIPēPSPSP° PiC-PiPμC҃C...PsP»PμCΓC, PμC҃PēPSPμPjC-C҃

Pj PiPsPrPIC-PMSPSPsPjC† CΓP»C-PiPsPjC† PiP»P°C†PμP±Ps-PePsPSC, C҃PsP»CHPsPIP°PSPsPjC†
8-C, PēP҃PSPμPiPsPjC† PrPsCΓP»C-PrP҃PμPSPSC- 769 PiP°C†C-C" PSC, C-PI P·
PiC-PiPμC҃C...PsP»PμCΓC, PμC҃PēPSPμPjC-C" C҃, C҃PeC- PIP҃Pμ PsC, C҃PēPjC†C҃C, CH
PjPsPSPsC, PμC҃P°PiC-C҃ CΓC, P°C, PēPSP°PjPē C, P° PSPμ PIC-PrPiPsPIC-PrP°C҃C, CH C†C-P»C-
ГПҮ P»PμPкP© PIC-PrPiPsPIC-PrPSPs PrPs PкP°C†C-PsPSP°P»CHPSPsC—
PsCΓPIC-C, PSC҃PsC— PiC҃PsPiC҃P°PjPē P· C...PsP»PμCΓC, PμC҃PēPSC† (NCEP) (PIC-Pr 2,6
PrPs
4,1 PjPjPsP»CH/P» [PIC-Pr 100 PrPs 160 PjPi/PrP»], P·P°P»PμP҃PSPs PIC-Pr P±P°P·PsPiPēC...
C...P°C҃P°PeC, PμC҃PēCΓC, PēPe), P±C†P»Pē C҃P°PSPrPsPjC-P·PsPIP°PSC- PrP»C҃
PiC҃PēPMSPsPjC† PμP·PμC, PēPjC-P±C† 10 PjPi P°P±Ps PiP»P°C†PμP±Ps, PSP° PrPsPrP°C, PsPe
PrPs PiPsC, PsC†PSPsC— C, PμC҃P°PiC-C— CΓC, P°C, PēPSP°PjPē.

P҃PμC҃PμPr PiP°C†C-C" PSC, C-PI, C҃PeC- PsC, C҃PēPjC†PIP°P»Pē CΓC, P°C, PēPSPē C- C҃PeC-
PSPμ PIC-PrPiPsPIC-PrP°P»Pē C†C-P»C- ГПҮ P»PμPкP© PSP° PiPsC†P°C, PePsPiPsPjC†
PμC, P°PiC- (~ 82 %), P·PSP°C†PSPs P±C-P»CHCεPμ PiP°C†C-C" PSC, C-PI,
C҃P°PSPrPsPjC-P·PsPIP°PSPēC... PrP»C҃ PiC҃PēPMSPsPjC† PμP·PμC, PēPjC-P±C†,
PrPsCΓC҃PiPSC†P»Pē C†C-P»C- ГПҮ P»PμPкP© PI PeC-PSC†PμPIC-PM C, PsC†C†C-
PrPsCΓP»C-PrP҃PμPSPSC҃ PiPsC҃C-PIPSC҃PSPs P· PiP°C†C-C" PSC, P°PjPē,
C҃P°PSPrPsPjC-P·PsPIP°PSPēPjPē PrP»C҃ PiC҃PēPMSPsPjC† PiP»P°C†PμP±Ps,
PIC-PrPiPsPIC-PrPSPs 72 % C, P° 19 %. P' C-PrPiPsPIC-PrPSC- P·PSPēP҃PμPSPSC҃ ГПҮ
P»PμPкP© CΓC†C, C, C" PIPs PIC-PrC҃C-P·PSC҃P»PēCΓC҃ (25 % C, P° 4 % PrP»C҃
PμP·PμC, PēPjC-P±C† PiPsC҃C-PIPSC҃PSPs P· PiP»P°C†PμP±Ps PIC-PrPiPsPIC-PrPSPs).
P҃C҃C-Pj C, PsPiPs, PμP·PμC, PēPjC-P±, PrPsPrP°PSPēPM PrPs PiPsC, PsC†PSPsC—
C, PμC҃P°PiC-C— CΓC, P°C, PēPSP°PjPē, CΓC†C, C, C" PIPs P·PSPēP·PēPI P·P°PiP°P»CHPSPēPM
ГПҮ, P҃PiPs-P', P҃P" C- PiC-PrPiPēC%oPēPI ГПҮ P»PμPкP© PiPsC҃C-PIPSC҃PSPs P·
PiP»P°C†PμP±Ps. P·P·PμC, PēPjC-P± P°P±Ps PiP»P°C†PμP±Ps, PrPsPrP°PSC- PrPs
C, PμC҃P°PiC-C— CΓC, P°C, PēPSP°PjPē, P·PjPμPSCεPēPI CΓPμC҃PμPrPSC-PM P҃-
C҃PμP°PeC, PēPiPSPēPM P±C-P»PsPe PSP° 10 % P°P±Ps 0 % PIC-Pr PiPsC†P°C, PePsPiPsPiPs
C҃C-PIPSC҃ PIC-PrPiPsPIC-PrPSPs.

Pj PrPiPsC... PiPsPrPIC-PMSPSPēC... CΓP»C-PiPēC... C҃P°PSPrPsPjC-P·PsPIP°PSPēC...
PiP»P°C†PμP±Ps-PePsPSC, C҃PsP»CHPsPIP°PSPēC... 12-C, PēP҃PSPμPiPēC...
PrPsCΓP»C-PrP҃PμPSPSC҃C... P· C†C†P°CΓC, C҃ 1719 PiP°C†C-C" PSC, C-PI P·
PiPμC҃PIPēPSPSPsC҃ PiC-PiPμC҃C...PsP»PμCΓC, PμC҃PēPSPμPjC-C" C҃ PμP·PμC, PēPjC-P± C†
PrPsP·C- 10 PjPi CΓC†C, C, C" PIPs P·PSPēP·PēPI P·P°PiP°P»CHPSPēPM ГПҮ (13 %), P»PμPкP© (19
(19 %), P҃PiPs-P' (14 %) C- P҃P" (8 %) C- PiC-PrPiPēC%oPēPI ГПҮ P»PμP'P©
(3 %) PiPsC҃C-PIPSC҃PSPs P· PiP»P°C†PμP±Ps. P҃C҃C-Pj C, PsPiPs, PμP·PμC, PēPjC-P± PSPμ
PIP҃P»PēPIP°PI PSP° PePsPSC†PμPSC, C҃P°C†C-C҃ P҃PēC҃PsC҃PsP·C†PēPSPSPēC...
PIC-C, P°PjC-PSC-PI P҃, D C, P° P°, PSPμ PIP҃P»PēPIP°PI PSP° PiC҃PsC, C҃PsPjP±C-PSPsPiPēPM
C†P°CΓ, C-, C҃Pe C-PSCεC- P»C-PiC-PrPsP·PSPēP҃C†PIP°P»CHPSC- PiC҃PμPiP°C҃P°C, Pē, PSPμ
P·P°PIP°P҃PI PiC҃PsPrC†PeC†PIP°PSPSC҃ P°PrC҃PμPSPsPePsC҃C, PēPeP°P»CHPSPsPiPs
CΓC, PμC҃PsC—PrPSPsPiPs PiPsC҃PjPsPSC†.

Pj P±P°PiP°C, PsC†PμPSC, C҃PsPiPsPjC† PiPsPrPIC-PMSPSPsPjC† CΓP»C-PiPsPjC†

PePsPSC, C₇H₅PsP»CH₃PsPIP°PSPsPjC_r PeP»C-PSC-C₄PsPSPjC_r PrPsC_rP»C-PrP¶PμPSPSC-
(ENHANCE) 720 PiP°C†C-C"°PSC, C-PI C-P· PiPμC, PμC₇PsP·PēPiPsC, PSPsC₇
C_rC-PjPμPN₂PSPsC₇ PiC-PiPμC₇C...PsP»PμC_rC, PμC₇PēPSPμPjC-C"°C₇ P±C_rP»Pē
C₇H₅P°PSPrPsPjC-P·PsPIP°PSC- PrP»C₇ PiC₇PēPN₂PsPjC_r PμP·PμC, PēPjC-P±C_r 10 PjPi C_r
PePsPjP±C-PSP°C†C-C— P· C_rPēPjPIP°C_rC, P°C, PēPSPsPj 80 PjPi (n = 357) P°P±Ps
C_rPēPjPIP°C_rC, P°C, PēPSC_r 80 PjPi (n = 363) PiC₇PsC, C₇PiPsPj 2 C₇PsPeC-PI.
P_hC_rPSPsPIPSPsC₇ PjPμC, PsC₇ PrPsC_rP»C-PrP¶PμPSPSC₇ P±C_rP»Ps PIPēPIC₄PμPSPSC₇
PμC,, PμPeC, C_r PePsPjP±C-PSPsPIP°PSPsC— C, PμC₇P°PiC-C—
PμP·PμC, PēPjC-P±PsPj/C_rPēPjPIP°C_rC, P°C, PēPSPsPj PSP° C, PsPIC%PēPSC_r C-PSC, PēPjP°-
PjPμPrC-P° (P_YP†P_h) C_rPsPSPSPēC... P°C₇C, PμC₇C-PN₂ PiPsC₇C-PIPSC₇PsPs P·
PjPsPSPsC, PμC₇P°PiC-C"°C₇ C_rPēPjPIP°C_rC, P°C, PēPSPsPj. P'PiP»PēPI C†CH₃PsPiPs
C_rC_rC₇PsPiP°C, PSPsPiPs PjP°C₇PePμC₇P° PSP° C_rPμC₇C†PμPIPs-C_rC_rPrPēPSPSC_r
P·P°C...PIP_sC₇C₇PIP°PSC-C_rC, CH₃ C, P° P»PμC, P°P»CH₃PSC-C_rC, CH₃ PIC_rPμ C%Pμ PSPμ
PiC₇PsPrPμPjPsPSC_rC, C₇PsPIP°PSPs. PμPμC₇PIPēPSPSP° PeC-PSC†PμPIP° C, PsC₄PeP°,
P·PjC-PSP° C_rPμC₇PμPrPSC₇PsC— P_YP†P_h PIC_rC-C... C₇PμC_rC, Pē C_rPμPiPjPμPSC, C-PI
C_rPsPSPSPēC... P°C₇C, PμC₇C-PN₂, PSPμ PIC-PrC₇C-P·PSC₇P»P°C_rC₇ P·PSP°C₄PsPSC₇
PjC-C₇PsC₇ (C₇ = 0,29) PjC-P¶ PrPIPsPjP° PiC₇C_rPiP°PjPē P»C-PeC_rPIP°PSPSC₇, C₇Pe
P±C_rP»Ps PIPēP·PSP°C₄PμPSPs P·P° PrPsPiPsPjPsPiPsC₇ C_rP»CH₃C, C₇H₅P°P·PIC_rPePsPIPsPiPs
PrPsC_rP»C-PrP¶PμPSPSC₇ C_r P'-C₇PμP¶PēPjC-. PμC₇Pē P·P°C_rC, PsC_rC_rPIP°PSPSC-
PμP·PμC, PēPjC-P±C_r 10 PjPi C_r PePsPjP±C-PSP°C†C-C— P· C_rPēPjPIP°C_rC, P°C, PēPSPsPj 80 PjPi
P°P±Ps C, C-P»CH₃PePē C_rPēPjPIP°C_rC, P°C, PēPSC_r 80 PjPi, C, PsPIC%PēPSP° C-PSC, PēPjP°-
PjPμPrC-P° P·P±C-P»CH₃C₇PēP»P°C_rC₇ PIC-PrPiPsPIC-PrPSPs PSP° 0,0111 PjPj C- 0,0058 PjPj
PIC-PrPiPsPIC-PrPSPs PiC₇PsC, C₇PiPsPj PrPIPsC₇C-C₄PsPSPiPs PrPsC_rP»C-PrP¶PμPSPSC₇
(PiPsC₄P°C, PePsPIP° C, PsPIC%PēPSP° P_YP†P_h C_rPsPSPSPēC... P°C₇C, PμC₇C-PN₂ б₇" 0,68 PjPj
C, P° 0,69 PjPj PIC-PrPiPsPIC-PrPSPs).

P·P·PμC, PēPjC-P± 10 PjPi C_r PePsPjP±C-PSP°C†C-C— P· C_rPēPjPIP°C_rC, P°C, PēPSPsPj 80 PjPi
P·PjPμPSCēPēPI C₇C-PIPμPSC₇ P_rP_Y P>PμP_hP°, P·P°PiP°P»CH₃PSPēPN₂ P_rP_Y, P_hPiPs-B
C- P_YP" P·PSP°C₄PsPs P±C-P»CH₃C₇Pμ, PSC-P¶ C_rPēPjPIP°C_rC, P°C, PēPS 80 PjPi.
PμC₇PsC†PμPSC, PSPμ P·P±C-P»CH₃C₇PμPSPSC₇ P_rP_Y P>PμP'P° P±C_rP»Ps
PiPsPrC-P±PSPēPj PrP»C₇ PrPIPsC... PiC₇C_rPi P»C-PeC_rPIP°PSPSC₇. PμPsP±C-C₄PSC-
C₇H₅PμP°PeC†C-C—, PiC₇Ps C₇PeC- PiPsPIC-PrPsPjP»C₇P»Pē PiC₇Pē
P·P°C_rC, PsC_rC_rPIP°PSPSC- PμP·PμC, PēPjC-P±C_r 10 PjPi PI PePsPjP±C-PSP°C†C-C— P·
C_rPēPjPIP°C_rC, P°C, PēPSPsPj 80 PjPi, PIC-PrPiPsPIC-PrP°P»Pē PN₂PsPiPs
PIC-PrPsPjPsPjC_r PiC₇PsC,, C-P»C₇ P±PμP·PiPμPePē.

P"C-C, Pē

Pj P±P°PiP°C, PsC†PμPSC, C₇PsPIPsPjC_r PiPsPrPIC-PN₂PSPsPjC_r C_rP»C-PiPsPjC_r
PePsPSC, C₇PsP»CH₃PsPIP°PSPsPjC_r PrPsC_rP»C-PrP¶PμPSPSC- 138 PiP°C†C-C"°PSC, C-PI
(59 C...P»PsPiC₄PēPeC-PI C, P° 79 PrC-PIC₄P°C,) PIC-PePsPj PIC-Pr 6 PrPs 10 C₇PsPeC-PI
(C_rPμC₇PμPrPSC-PN₂ PIC-Pe 8,3 C₇PsPeC_r) C-P· PiPμC, PμC₇PsP·PēPiPsC, PSPsC₇
C_rC-PjPμPN₂PSPsC₇ P°P±Ps PSPμC_rC-PjPμPN₂PSPsC₇
PiC-PiPμC₇C...PsP»PμC_rC, PμC₇PēPSPμPjC-C"°C₇ (P" PμP_YP") P· PiPsC₄P°C, PePsPIPēPjPē
C₇C-PIPSC₇PjPē P_rP_Y P>PμP_hP° PjC-P¶ 3,74 C- 9,92 PjPjPsP»CH₃/P» P±C_rP»Pē
C₇H₅P°PSPrPsPjC-P·PsPIP°PSC- PrP»C₇ PiC₇PēPN₂PsPjC_r PμP·PμC, PēPjC-P±C_r 10 PjPi P°P±Ps
PiP»P°C†PμP±Ps PiC₇PsC, C₇PiPsPj 12 C, PēP¶PSC-PI.

P_hP° 12-PjC_r C, PēP¶PSC- PμP·PμC, PēPjC-P± C_rC_rC, C, C"PIPs P·PSPēP·PēPI P·P°PiP°P»CH₃PSPēPN₂
P_rP_Y (-21 % PiC₇PsC, Pē 0 %), P_rP_Y P>PμP_hP° (-28 % PiC₇PsC, Pē -1 %), APiPs-B (-22 %

ΠΐCΉPsC,Πē -1 %), ΠΓΠŸ Π>ΠμΠ'Π© (-26 % ΠΐCΉPsC,Πē 0 %) ΠΐPsCΉC-ΠΐPSCΠΐPSPs Π·
ΠΐΠ>Π°C†ΠμΠ±Ps. Π ΠμΠ·C†Π>CΉC,Π°C,Πē ΠrΠ>CΠ ΠrΠΐPsC... ΠΐCΉC†Πΐ Π>C-ΠeC†Πΐ°PSPSCΠ
Π±C†Π>Πē ΠΐPsΠrC-Π±PSPēΠjΠē ΠrΠ>CΠ ΠŸΠ" C,Π° ΠΓΠŸ Π>ΠμΠ'Π© (-6 % ΠΐCΉPsC,Πē 8 % C,Π° 2 %
ΠΐCΉPsC,Πē 1 % ΠΐC-ΠrΠΐPsΠΐC-ΠrPSPs).

Πj Π±Π°ΠΐΠ°C,ΠsC†ΠμΠSC, CΉPsΠΐPsΠjC† ΠΐPsΠrΠΐC-ΠNēPSPsΠjC† C†Π>C-ΠΐPsΠjC†
ΠePsΠSC, CΉPsΠ>CΉPsΠΐ°PSPsΠjC† ΠrPsC†Π>C-ΠrΠΠΠμPSPSC- 142 C...Π>PsΠΐC†ΠēΠeΠē
(C†C,Π°ΠrC-CΠ ΠŸΠ°PSPSPμCΉΠ° Π Π°Π±Ps ΠΐΠēC%Πμ) C,Π° 106 ΠrC-ΠΐC†Π°C,ΠsΠe ΠΐC-C†Π>CΠ
ΠjΠμPSP°CΉC...Πμ ΠΐC-ΠePsΠj ΠΐC-Πr 10 ΠrPs 17 CΉPsΠeC-Πΐ (C†ΠμCΉΠμΠrΠSC-ΠNē ΠΐC-Πe
14,2 CΉPsΠeC-Πΐ) C-Π· ΠΐΠμC,ΠμCΉPsΠ·ΠēΠΐPsC,PSPsCΉ C†C-ΠjΠμΠNēPSPsCΉ
ΠΐC-ΠΐΠμCΉC...PsΠ>ΠμC†C,ΠμCΉΠēPSPμΠjC-C" CΉ (Π"ΠμΠŸΠ") Π· ΠΐPsC†Π°C,ΠePsΠΐΠēΠjΠē
CΉC-ΠΐPSCΠjΠē ΠΓΠŸ Π>ΠμΠκΠ© ΠjC-ΠΠ 4,1 C,Π° 10,4 ΠjΠjPsΠ>CΉ/Π> Π±C†Π>Πē
CΉΠ°PSPrPsΠjC-Π·PsΠΐ°PSC- ΠrΠ>CΠ ΠΐCΉΠēΠNēPsΠjC† ΠμΠ·ΠμC,ΠēΠjC-Π±C† 10 ΠjΠ
C†C†ΠΐC†C,ΠSCHPs Π· C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSPsΠj (10, 20 Π°Π±Ps 40 ΠjΠ) Π°Π±Ps
C,C-Π>CΉΠeΠē C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSC† (10, 20 Π°Π±Ps 40 ΠjΠ) ΠΐCΉPsC,CΠΠΐPsΠj
6 C,ΠēΠΠPSC-Πΐ, C†C†ΠΐC†C,ΠSCHPs Π· ΠμΠ·ΠμC,ΠēΠjC-Π±PsΠj C- 40 ΠjΠ
C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSC† Π°Π±Ps C,C-Π>CΉΠeΠē 40 ΠjΠ C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSC†
ΠΐCΉPsC,CΠΠΐPsΠj PSP°C†C,C†ΠΐPSPēC... 27 C,ΠēΠΠPSC-Πΐ Π· ΠΐPsΠrΠ°Π>CΉCēΠēΠj
ΠΐC-ΠrΠeCΉΠēC,ΠēΠj C†C†ΠΐC†C,PSC-Πj ΠΐCΉΠēΠNēPsΠjPsΠj ΠμΠ·ΠμC,ΠēΠjC-Π±C† C,Π°
C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSC† (10 ΠjΠ, 20 ΠjΠ Π°Π±Ps 40 ΠjΠ) ΠΐCΉPsC,CΠΠΐPsΠj 20 C,ΠēΠΠPSC-Πΐ.

ΠκΠ° 6-ΠjC† C,ΠēΠΠPSC- ΠμΠ·ΠμC,ΠēΠjC-Π± C-Π· C†C†ΠΐC†C,PSC-Πj
Π·Π°C†C,ΠsC†C†Πΐ°PSPSCΠj C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSC† (ΠΐC†C- ΠrPsΠ·Πē) C†C†C,C,C"ΠΐPs
Π·ΠjΠμPSCēΠēΠΐ Π·Π°ΠΐΠ°Π>CΉPSPēΠNē ΠΓΠŸ (38 % ΠΐCΉPsC,Πē 26 %), ΠΓΠŸ Π>ΠμΠκΠ© (49 %
ΠΐCΉPsC,Πē 34 %), ΑΠΐPs-B (39 % ΠΐCΉPsC,Πē 27 %), ΠΓΠŸ Π>ΠμΠ'Π© (47 % ΠΐCΉPsC,Πē 33 %)
ΠΐPsCΉC-ΠΐPSCΠΐPSPs Π· ΠjPsPSPsC,ΠμCΉΠ°ΠΐC-C" CΉ C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSPsΠj (ΠΐC†C-
ΠrPsΠ·Πē). Π ΠμΠ·C†Π>CΉC,Π°C,Πē ΠrΠ>CΠ ΠrΠΐPsC... ΠΐCΉC†Πΐ Π>C-ΠeC†Πΐ°PSPSCΠ Π±C†Π>Πē
ΠΐPsΠrC-Π±PSPēΠjΠē ΠrΠ>CΠ ΠŸΠ" C,Π° ΠΓΠŸ Π>ΠμΠ'Π© (-17 % ΠΐCΉPsC,Πē -12 % C,Π° 7 %
ΠΐCΉPsC,Πē 6 % ΠΐC-ΠrΠΐPsΠΐC-ΠrPSPs). ΠκΠ° 33-ΠjC† C,ΠēΠΠPSC- CΉΠμΠ·C†Π>CΉC,Π°C,Πē
Π±C†Π>Πē C†C†ΠjC-C†PSPēΠjΠē Π· CΉΠμΠ·C†Π>CΉC,Π°C,Π°ΠjΠē PSP° 6-ΠjC† C,ΠēΠΠPSC-, C-
Π·PSP°C†PSPs Π±C-Π>CΉCēΠμ ΠΐΠ°C†C-C" PSC,C-Πΐ, CΠΠeC- ΠsC,CΉΠēΠjC†Πΐ°Π>Πē
ΠμΠ·ΠμC,ΠēΠjC-Π± C,Π° 40 ΠjΠ C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSC† (62 %) ΠrPsC†CΠΠΐΠ>Πē
C-ΠrΠμΠ°Π>CΉPSPsC— ΠjΠμC,Πē ΠΐC-ΠrΠΐPsΠΐC-ΠrPSPs ΠrPs NCEP AAP (< 2,8
ΠjΠjPsΠ>CΉ/Π> [110 ΠjΠ/ΠrΠ>]) ΠrΠ>CΠ ΠΓΠŸ Π>ΠμΠκΠ© ΠΐPsCΉC-ΠΐPSCΠΐPSPs Π·
C,ΠēΠjΠē, C...C,Πs ΠsC,CΉΠēΠjC†Πΐ°Πΐ 40 ΠjΠ C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSC† (25 %). ΠκΠ° 53-
ΠjC† C,ΠēΠΠPSC-, PSP°ΠΐCΉΠēΠeC-PSC†C- ΠΐC-ΠrΠeCΉΠēC,ΠsΠΐPs ΠrPsΠrΠ°C,ΠePsΠΐPsΠΐPs
ΠrPsC†Π>C-ΠrΠΠΠμPSPSCΠ, ΠΐΠΐ>ΠēΠΐ PSP° Π>C-ΠΐC-ΠrPSC- ΠΐΠ°CΉΠ°ΠjΠμC,CΉΠē
Π·Π±ΠμCΉC-ΠΐΠ°ΠΐC†CΠ.

Π'ΠμΠ·ΠΐΠμΠeΠ° C,Π° ΠμC,ΠμΠeC,ΠēΠΐPSC-C†C,CΉ ΠμΠ·ΠμC,ΠēΠjC-Π±C†, C%Πs
ΠΐCΉΠēΠ·PSP°C†Π°Π>Πē C† ΠePsΠjΠ±C-PSP°C†C-C— Π· C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSPsΠj C† ΠrPsΠ·C-
Π±C-Π>CΉCēΠμ 40 ΠjΠ PSP° ΠrPsΠ±C†, ΠrC-C,CΠΠj ΠΐC-ΠePsΠj ΠΐC-Πr 10 ΠrPs 17 CΉPsΠeC-Πΐ,
PSPμ ΠΐΠēΠΐC†Π°Π>ΠēC†CΠ. Π'ΠμΠ·ΠΐΠμΠeC† C,Π° ΠμC,ΠμΠeC,ΠēΠΐPSC-C†C,CΉ
ΠμΠ·ΠμC,ΠēΠjC-Π±C†, C%Πs ΠΐCΉΠēΠ·PSP°C†Π°Π>Πē C† ΠePsΠjΠ±C-PSP°C†C-C— Π·
C†ΠēΠjΠΐ°C†C,Π°C,ΠēPSPsΠj, ΠrC-C,CΠΠj ΠΐC-ΠePsΠj ΠrPs 10 CΉPsΠeC-Πΐ, PSPμ
ΠΐΠēΠΐC†Π°Π>Πē. Π"ΠsΠΐΠsC†C,CΉPsΠePsΠΐ° ΠμC,ΠμΠeC,ΠēΠΐPSC-C†C,CΉ C,ΠμCΉΠ°ΠΐC-C—
ΠμΠ·ΠμC,ΠēΠjC-Π±PsΠj C† ΠΐΠ°C†C-C" PSC,C-Πΐ ΠΐC-ΠePsΠj ΠrPs 17 CΉPsΠeC-Πΐ ΠrΠ>CΠ
Π·PSPēΠΠμPSPSCΠ Π·Π°C...ΠΐPsCΉCΉΠΐ°PSPsC†C,C- C,Π° Π>ΠμC,Π°Π>CΉPSPsC†C,C- C†
Π·CΉC-Π>PsΠjC† ΠΐC-C†C- PSPμ ΠrPsC†Π>C-ΠrΠΠC†Πΐ°Π>Π°C†CΠ.

РμCḡPsC,,C-P»P°PeC,PëPeP° CÍPμCḡC†PμPIPs-CÍC¿PrPëPSPSPëC... PìPsPrC-PNḡ

РμPsP»C-PiC€PμPSPμ CÍPePsCḡPsC†PμPSPSCḡ CḡPμP·CfP»CHC,P°C,C-PI:
PjC-P¶PSP°CḡPsPrPSPμ PrPsCÍP»C-PrP¶PμPSPSCḡ PμC,,PμPeC,PëPIPsCÍC,C-
P'C-C,PсCḡC-PSCr (IMPROVE-IT) вḡ“ C†Pμ P±P°PiP°C,PсC†PμPSC,CḡPsPIPμ
CḡP°PSPrPsPjC-P·PsPIP°PSPμ PìPsPrPIC-PNḡPSPμ CÍP»C-PìPμ PrPsCÍP»C-PrP¶PμPSPSCḡ P·
P°PeC,PëPIPsPëPj PePsPSC,CḡPsP»PμPj P· CfC†P°CÍC,Cḡ 18144 PìP°C†C-C”PSC,C-PI, CḡPeC-
P±CfP»Pë PIPeP»CḡC†PμPSC- PìCḡPsC,CḡPiPsPj 10 PrPSC-PI PìC-CÍP»Cḡ
PìPsCÍPìC-C,P°P»C-P·P°C†C-C— C†PμCḡPμP· PìPsCÍC,CḡPëPNḡ PePsCḡPsPSP°CḡPSPëPNḡ
CÍPëPSPrCḡPsPj (P“PḡPḡ, PìPsCÍC,CḡPëPNḡ C-PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP° [P†Pḡ] P°P±Ps
PSPμCÍC,P°P±C-P»CHPSP° CÍC,PμPSPsPeP°CḡPrC-Cḡ [PḡPḡ]). PḡP° PjPsPjPμPSC,
PìCḡPsCḡPICr P“PḡPḡ PḡPḡ P·PμPḡP© PìP°C†C-C”PSC,C-PI P±CfPI ≤ 125 PjPi/PrP»
(≤ 3,2 PjPjPsP»CH/P»), CḡPeC%Ps PIPsPSPë PSPμ PsC,CḡPëPjCfPIP°P»Pë
P»C-PìC-PrPsP·PSPëP¶CfPIP°P»CHPSCr C,PμCḡP°PìC-Cḡ, P°P±Ps ≤ 100 PjPi/PrP»
(≤ 2,6 PjPjPsP»CH/P»), CḡPeC%Ps PIPsPSPë PsC,CḡPëPjCfPIP°P»Pë
P»C-PìC-PrPsP·PSPëP¶CfPIP°P»CHPSCr C,PμCḡP°PìC-Cḡ. PjCÍC- PìP°C†C-C”PSC,Pë
P±CfP»Pë CḡP°PSPrPsPjC-P·PsPIP°PSC- CÍ CÍPìC-PIPIC-PrPSPsC€PμPSPSC- 1:1 PrP»Cḡ
PìCḡPëPNḡPsPjCf P°P±Ps PμP·PμC,PëPjC-P±Cf/CÍPëPjPIP°CÍC,P°C,PëPSCr 10/40 PjPi
(n = 9067) P°P±Ps CÍPëPjPIP°CÍC,P°C,PëPSCr 40 PjPi (n = 9077) C,P°
P·PSP°C...PsPrPëP»PëCÍCḡ PìC-Pr PSP°PiP»CḡPrPsPj CÍ CÍPμCḡPμPrPSCḡPsPjCf
6 CḡPsPeC-PI.

PḡPμCḡPμPrPSC-PNḡ PIC-Pe PìP°C†C-C”PSC,C-PI CÍC,P°PSPsPIPëPI 63,6 CḡPsPeCf; 76 %
P±CfP»Pë C†PsP»PsPIC-C†PsC— CÍC,P°C,C-, 84 % P±CfP»Pë PeP°PIPeP°P·CHPePsC—
PSP°C†C-PsPSP°P»CHPSPsCÍC,C- C,P° 27 % PjP°P»Pë PrC-P°P±PμC,,
PḡPμCḡPμPrPSC-PNḡ PìPsPeP°P·PSPëPe PḡPḡ P·PμPḡP© PSP° PjPsPjPμPSC,
PIPëPIC†PμPSPSCḡ PePIP°P»C-C,,C-PeP°C†C-PNḡPSPsC— PìPsPrC-C— P±CfPI 80
PjPi/PrP» (2,1 PjPjPsP»CH/P») PrP»Cḡ P»C-PìC-PrPsP·PSPëP¶CfPIP°P»CHPSPsC—
C,PμCḡP°PìC-C— (n 6390) C,P°
101 PjPi/PrP» (2,6 PjPjPsP»CH/P») PrP»Cḡ C,PëC... PìP°C†C-C”PSC,C-PI, CḡPeC- PSPμ
PsC,CḡPëPjCfPIP°P»Pë PìPsPìPμCḡPμPrPSCḡ P»C-PìC-PrPsP·PSPëP¶CfPIP°P»CHPSCr
C,PμCḡP°PìC-Cḡ (n = 11 594). P”Ps PìPsCÍPìC-C,P°P»C-P·P°C†C-C— CÍ P·PIBḡ™ CḡP·PeCf P·
P“PḡPḡ 34 % PìP°C†C-C”PSC,C-PI PsC,CḡPëPjCfPIP°P»Pë C,PμCḡP°PìC-Cḡ CÍC,P°C,PëPSP°PjPë.
PμCḡPsC,CḡPiPsPj 1 CḡPsPeCf CÍPμCḡPμPrPSC-PNḡ PìPsPeP°P·PSPëPe PḡPḡ P·PμPḡP© PrP»Cḡ
PìP°C†C-C”PSC,C-PI, CḡPeC- PìCḡPsPrPsPIP¶CfPIP°P»Pë C,PμCḡP°PìC-Cḡ, CÍC,P°PSPsPIPëPI
53,2 PjPi/PrP» (1,4 PjPjPsP»CH/P») PrP»Cḡ PìCḡCfPìPë
PμP·PμC,PëPjC-P±Cf/CÍPëPjPIP°CÍC,P°C,PëPSCr C- 69,9 PjPi/PrP»
(1,8 PjPjPsP»CH/P») PrP»Cḡ PìCḡCfPìPë PjPsPSPsC,PμCḡP°PìC-C— CÍPëPjPIP°CÍC,P°C,PëPSCr.
P—PSP°C†PμPSPSCḡ P»C-PìC-PrC-PI P·P°PiP°P»PsPj P±CfP»Pë PsC,CḡPëPjP°PSC- PrP»Cḡ
PìP°C†C-C”PSC,C-PI, CḡPeC- P·P°P»PëC€PëP»PëCÍCḡ PI PrPsCÍP»C-PrP¶CfPIP°PSC-PNḡ
C,PμCḡP°PìC-C—.

PμPμCḡPIPëPSPSPsCḡ PeC-PSC†PμPIPsCḡ C,PсC†PePsCḡ P±CfP»P° PePsPjP±C-PSP°C†C-C—,
C%Ps PIPeP»CḡC†P°P»P° P»PμC,P°P»CHPSPëPNḡ PSP°CÍP»C-PrPsPe P· PìCḡPëC†PëPSPë
CÍPμCḡC†PμPIPs-CÍCfPrPëPSPSPsC— PìP°C,PсP»PsPiC-C—, PìPsCÍC,CḡPëPNḡ
PePsCḡPsPSP°CḡPSPëPNḡ CÍPëPSPrCḡPsPj (P“PḡPḡ, C%Ps PIPëP·PSP°C†P°PICÍCḡ CḡPe
PSPμP»PμC,P°P»CHPSPëPNḡ C-PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP°,
P·P°PrPsPeCfPjPμPSC,PsPIP°PSP° PSPμCÍC,P°P±C-P»CHPSP° CÍC,PμPSPsPeP°CḡPrC-Cḡ,
CḡPeP° PìPsC,CḡPμP±CfPIP°P»P° PìPsCÍPìC-C,P°P»C-P·P°C†C-C—, P°P±Ps P±CfPrCH-CḡPeP°
PìCḡPsC†PμPrCfCḡP° PePsCḡPsPSP°CḡPSPsC— CḡPμPIP°CÍPeCfP»CḡCḡPëP·P°C†C-C—,

CИPеP° PиCђPсC...PsPrPөP»P° CИPе PјC-PSC-PјCрPј C±PμCђPμP· 30 PrPSC-PI PиC-ClP»CИ
 PиCђPөP·PSP°C±PμPSPSCИ CђP°PSPPrPsPјC-P·PsPIP°PSPsPiPs P»C-PeCрPIP°PSPSCИ) C-
 PSPμP»PμC,P°P»CHBPSPөP№ C-PSClCрP»CHC,, P°PсClP»C-PrP¶PμPSPSCИ PиPsPeP°P·P°P»Pө,
 C%oPs P»C-PeCрPIP°PSPSCИ PμP·PμC,PөPјC-P±PsPј PиCђPө PrPsPrP°PIP°PSPSC- PrPs
 ClPөPјPIP°ClC,P°C,PөPSCр P·P°P±PμP·PiPμC±CрC” PиPsClC,CрPiPsPICр PiPμCђPμPIP°PiCр Cр
 P·PјPμPSCєPμPSPSC- PiPμCђPIPөPSPSPсC— PePsPјP±C-PSPsPIP°PSPсC— PeC-PSC±PμPIPsC—
 C,PsC±PePө P»PμC,P°P»CHBPSPsPiPs PSP°ClP»C-PrPeCр P· PиCђPөC±PөPSPө ClPμCђC±PμPIPs-
 ClCрPrPөPSPSPсC— PиP°C,PsP»PsPiC-C—, P”PљPŸ C,P° PSPμP»PμC,P°P»CHBPSPsPiPs
 C-PSClCрP»CHC,Cр PiPsCђC-PIPSCИPSPs P· ClPөPјPIP°ClC,P°C,PөPSPsPј
 (PIC-PrPSPsClPSPөP№ CђPөP·PөPe P·PSPөP¶ClC”C,CHCлCИ PSP° 6,4 %, Cђ 0,016).
 PμPμCђPIPөPSPSP° PeC-PSC±PμPIP° C,PsC±PeP° ClPiPsClC,PμCђC-PiP°P»P°ClCИ Cр 2572 P·
 9067 PиP°C±C-C”PSC,C-PI (7-CђC-C±PSPөP№ PiPsPeP°P·PSPөPe PSP° PsClPSPsPIC- PјPμC,PsPrCр
 PљP°PiP»P°PSP°-PђPμC”CђP° [KM] 32,72 %) PI PiCђCрPiC-
 PμP·PμC,PөPјC-P±Cр/ClPөPјPIP°ClC,P°C,PөPSCр C,P° 2742 P· 9077 PиP°C±C-C”PSC,C-PI (7-
 CђC-C±PSPөP№ PiPsPeP°P·PSPөPe PSP° PsClPSPsPIC- PјPμC,PsPrCр PљPђ 34,67 %) Cр
 PiCђCрPiC- ClPөPјPIP°ClC,P°C,PөPSCр. (PrPөPI. P PөCl.1 C- PŸP°P±P»PөC±Cђ 1).
 PђC±C-PeCрC”C,CHCлCИ, C%oPs C±CИ PrPsPrP°C,PePsPIP° PiPμCђPμPIP°PiP° P±CрPrPμ
 ClC...PsP¶PsCђ P· PsPrPSPsC±P°ClPSPөPј PIPIPμPrPμPSPSCИPј C-PSCєPөC...
 ClC,P°C,PөPSC-PI, CИPеC- PiPsPeP°P·P°P»Pө ClPIPsCђ PμC,,PμPeC,PөPIPSC-ClC,CH Cр
 P·PјPμPSCєPμPSPSC- CђPөP·PөPeCр ClPμCђC±PμPIPs-ClCрPrPөPSPSPөC... PiPsPrC-P№.
 P—P°PiP°P»CHBPSP° P»PμC,P°P»CHBPSC-ClC,CH Cр C±C-P№ PiCђCрPiC- PIPөClPsPePsPiPs
 CђPөP·PөPeCр PSPμ P·PјC-PSPөP»P°ClCИ (PrPөPI. PŸP°P±P»PөC±Cђ 1).

P”P»CИ PICлC-C... C-PSClCрP»CHC,C-PI C-ClPSCрPIP°P»P° P·P°PiP°P»CHBPSP°
 PiPμCђPμPIP°PiP°; PиCђPсC,Pμ ClPiPsClC,PμCђC-PiP°P»PsClCИ PSPμPIPμP»PөPePμ
 PSPμP·PSP°C±PSPμ P·P±C-P»CHCєPμPSPSCИ PiPμPјPsCђP°PiC-C±PSPsPiPs C-PSClCрP»CHC,Cр
 PI PiCђCрPiC- PμP·PμC,PөPјC-P±Cр-ClPөPјPIP°ClC,P°C,PөPSCр PiPsCђC-PIPSCИPSPs P·
 ClPөPјPIP°ClC,P°C,PөPSPsPј (PrPөPI. PŸP°P±P»PөC±Cђ 1). P PөP·PөPe
 PiPμPјPsCђP°PiC-C±PSPsPiPs C-PSClCрP»CHC,Cр PиCђPө P·P°ClC,PsClCрPIP°PSPSC-
 PμP·PμC,PөPјC-P±Cр CђP°P·PsPј C-P· PIPөClPsPePsP°PeC,PөPIPSPөPјPө ClC,P°C,PөPSP°PјPө Cр
 PrPsPIPiPsClC,CђPsPePsPIPөC... PrPsClP»C-PrP¶PμPSPSCИC... CђPμP·CрP»CHC,P°C,C-PI PSPμ
 P±CрPI PsC±C-PSPμPSPөP№.

P»C-PeCрPIP°P»CHBPSPөP№ PμC,,PμPeC, PμP·PμC,PөPјC-P±Cр/ClPөPјPIP°ClC,P°C,PөPSCр
 P·P°PiP°P»PsPј PIC-PrPiPsPIC-PrP°PI P·P°PiP°P»CHBPSPөPј CђPμP·CрP»CHC,P°C,P°Pј Cр
 P±P°PiP°C,CHPsC... PиC-PrPiCђCрPiP°C..., PIPөP»CђC±P°CђC±Pө ClC,P°C,CH, PIC-Pe,
 CђP°ClCр, PSP°CИPIPSC-ClC,CH C±CрPeCђPsPIPsPiPs PrC-P°P±PμC,Cр PI P°PSP°PјPSPμP·C-,
 PiPsC±P°C,PePsPIC- CђC-PIPSC- P»C-PиC-PrC-PI, PiPsPiPμCђPμPrPSCђ C,PμCђP°PiC-Cђ
 ClC,P°C,PөPSP°PјPө, PiPsPiPμCђPμPrPSC-P№ C-PSClCрP»CHC, C,P° PiC-PiPμCђC,PsPSC-Cђ.

P PөCl. 1. P’PiP»PөPI PμP·PμC,PөPјC-P±Cр/ClPөPјPIP°ClC,P°C,PөPSCр PSP°
 PiPμCђPIPөPSPSCр PePsPјP±C-PSPsPIP°PSCр PeC-PSC±PμPICр C,PsC±PeCр, C%oPs
 PIPөP»CђC±P°C” P»PμC,P°P»CHBPSPөP№ PSP°ClP»C-PrPsPe P· PиCђPөC±PөPSPө
 ClPμCђC±PμPIPs-ClCрPrPөPSPSPсC— PиP°C,PsP»PsPiC-C—, PiPsClC,CђPөP№
 PePsCђPsPSP°CђPSPөP№ ClPөPSPPrCђPsPј C,P° PSPμP»PμC,P°P»CHBPSPөP№ C-PSClCрP»CHC,,



PhCIPSPsPIPSC- CIPuCHCIPuPIPs-CICrPrPSPSC- PiPsPrC-C— P·P° PiCHCIPiP°PjPë
P»C-PeCIPiP°PSPSCI CÍ PICIC-C... CHP°PSPPrPsPjC-P·PsPIP°PSPëC... PIP°CIC-C”PSC,C-PI CÍ
PrPsCIP»C-PrP¶PµPSPSC- IMPROVE-IT.

PŸP°P±P»PëCIC 1.

P PµP·CfP»CHC,P°C,	P·P·PµC,PëPjC-P±/CfPëPjPIP°CfC,P°C,PëPS 10/40 PjPi ^a (N = 9067)	40 PjPi ^b (N = 9077)	PŸPëPjPIP°CfC,P°C,PëPS	P' C-PrPSPsCëPµPSPSCİ	p-P·PSP°C±PµPSPSCİ	
	n	K-M % ^c	n	K-M % ^c		
PµPµCİPIPëPSPSP° PePsPjP±C-PSPsPIP°PSP° PeC-PSCİPµPIP° C,PsCİPeP°						
(P»PµC,P°P»CHPSPëPNe PSP°CfP»C-PrPsPe P· PiCİPëCİPëPSPë CfPµCİCİPµPIPs-CfCfPrPëPSPSPsC— PiP°C,PsP»PsPiC-C—, PiPsCfC,CİPëPNe PePsCİPSPSP°CİPSPëPNe CfPëPSPPrCİPSPj C- PSPµP»PµC,P°P»CHPSPëPNe C-PSCfCfP»CHC,)	2572	32,72 %	2742	34,67 %	0,936 (0,887, 0,988)	0,016
P'C,PsCİPëPSPSC- PePsPjP±C-PSPsPIP°PSC- PeC-PSCİPµPIC- C,PsCİPePë						
P·PµC,P°P»CHPSPëPNe PSP°CfP»C-PrPsPe CİPµCİPµP· C-CëPµPjC-CİPSCf C...PIPsCİPSP±Cf CfPµCİCİCİ (P†PŸ), PSPµP»PµC,P°P»CHPSPëPNe C-PSC,,P°CİPeC, PjC-PsPeP°CİPrP° (P†Pµ), C,PµCİPjC-PSPsPIP° PePsCİPSPSP°CİPSP° CİPµPIP°CfPeCfP»CİCİPëP·P°CİC-Cİ PiC-CfP»Cİ 30 PrPSC-PI	1322	17,52 %	1448	18,88 %	0,912 (0,847, 0,983)	0,016
P°PµPŸ, PSPµP»PµC,P°P»CHPSPëPNe C-PSCfCfP»CHC,, P»PµC,P°P»CHPSPëPNe PSP°CfP»C-PrPsPe (PICfC- PiCİPëCİPëPSPë)	3089	38,65 %	3246	40,25 %	0,948 (0,903, 0,996)	0,035
P·PµC,P°P»CHPSPëPNe PSP°CfP»C-PrPsPe P· PiCİPëCİPëPSPë CfPµCİCİPµPIPs-CfCfPrPëPSPSPsC— PiP°C,PsP»PsPiC-C—, PSPµP»PµC,P°P»CHPSPëPNe P†Pµ, PSPµCfC,P°P±C-P»CHPSP° CfC,PµPSPsPeP°CİPrC-Cİ, CİPeP° PiPsC,CİPµP±CfPIP°P»P° PiPsCfPiC-C,P°P»C-P·P°CİC-C—, P±CfPrCHC-CİPeP° CİPµPIP°CfPeCfP»CİCİPëP·P°CİC-Cİ, PSPµP»PµC,P°P»CHPSPëPNe C-PSCfCfP»CHC,	2716	34,49 %	2869	36,20 %	0,945 (0,897, 0,996)	0,035
PµPSPjPIPsPSPµPSC,Pë PiPµCİPIPëPSPSPsC— PePsPjP±C-PSPsPIP°PSPsC— PeC-PSCİPµPIPsC— C,PsCİPePë C,P° PIC-PrC-P±CİP°PSC- PeC-PSCİPµPIC- C,PsCİPePë PµC,PµPeC,PëPIPsPSCfC,C- (PiPµCİCëC- PIPëPiP°PrPePë P·P·PSP°C±PµPSPsC— PiPsPrC-C— Cf P±CfPrCHC-CİPePëPNe CİP°Cf)						
P·PµC,P°P»CHPSPëPNe PSP°CfP»C-PrPsPe P· PiCİPëCİPëPSPë CfPµCİCİPµPIPs-CfCfPrPëPSPSPsC— PiP°C,PsP»PsPiC-C—	537	6,89 %	538	6,84 %	1,000 (0,887, 1,127)	0,997
P°PSCfC,CİPëPNe PePsCİPSPSP°CİPSPëPNe CfPëPSPPrCİPSPj:						
PkPµP»PµC,P°P»CHPSPëPNe P†Pµ	945	12,77 %	1083	14,41 %	0,871 (0,798, 0,950)	0,002
PkPµCfC,P°P±C-P»CHPSP° CfC,PµPSPsPeP°CİPrC-Cİ, CİPeP° PiPsC,CİPµP±CfPIP°P»P° PiPsCfPiC-C,P°P»C-P·P°CİC-C—	156	2,06 %	148	1,92 %	1,059 (0,846, 1,326)	0,618
PŸPµCİPjC-PSPsPIP° PePsCİPSPSP°CİPSP° CİPµPIP°CfPeCfP»CİCİPëP·P°CİC-Cİ PiC-CfP»Cİ 30 PrPSC-PI	1690	21,84 %	1793	23,36 %	0,947 (0,886, 1,012)	0,107
PkPµP»PµC,P°P»CHPSPëPNe C-PSCfCfP»CHC,	245	3,49 %	305	4,24 %	0,802 (0,678, 0,949)	0,010
PjCfC- P†Pµ (P»PµC,P°P»CHPSPëPNe C,P° PSPµP»PµC,P°P»CHPSPëPNe)	977	13,13 %	1118	14,82 %	0,872 (0,800, 0,950)	0,002
PjCfC- C-PSCfCfP»CHC,Pë (P»PµC,P°P»CHPSPëPNe C,P° PSPµP»PµC,P°P»CHPSPëPNe)	296	4,16 %	345	4,77 %	0,857 (0,734, 1,001)	0,052
PkPµPiPµPjPsCİP°PiC-CİPSPëPNe C-PSCfCfP»CHC, ^d	242	3,48 %	305	4,23 %	0,793 (0,670, 0,939)	0,007
P°PµPjPsCİP°PiC-CİPSPëPNe C-PSCfCfP»CHC,	59	0,77 %	43	0,59 %	1,377 (0,930, 2,040)	0,110
P·PµC,P°P»CHPSPëPNe PSP°CfP»C-PrPsPe P· P±CfPrCHC- CİPePsC— PiCİPëCİPëPSPë	1215	15,36 %	1231	15,28 %	0,989 (0,914, 1,070)	0,782

^a 6 % PĭP°C†C-C" PSC, P°Pj PrPsP·P° PμP·PμC, PēPjC-P±Cř/CřPēPjPIP°CřC, P°C, PēPSCř P±CřP»P° PĭC-PrPIPēC‰PμPSP° PrPs 10/80 PjPi.

^a 27 % PĭP°C†C-C" PSC, P°Pj PrPsP·P° CřPēPjPIP°CřC, P°C, PēPSCř P±CřP»P° PĭC-PrPIPēC‰PμPSP° PrPs 80 PjPi.

^c 7-CřC-C‡PSPēPNē PĭPsPeP°P·PSPēPe PSP° PsCřPSPsPIC- PjPμC, PsPrCř PľP°PĭP»P°PSP°- PħPμC"CřP°.

^d PIPēP»CřC‡P°C" C-CēPμPjC-C‡PSPēPNē C-PSCřCřP»CHC, P°P±Ps C-PSCřCřP»CHC, PSPμPIPēP·PSP°C‡PμPSPsPiPs C, PēPĭCř.

**PμCřPsC,,C-P»P°PeC,PēPeP° PsCřPSPsPIPSPēC... CřCžPrPēPSPSPēC...
PĭPsPrC-PNē PĭCřPē C...CřPsPSC-C‡PSPsPjCž P·P°C...PIPsCřCřPIP°PSPSC-
PSPēCřPsPe (PřP—Pķ)**

P"PsCřP»C-PrP¶PμPSPSCř C‰PsPrPs P·P°C...PēCřC,Cř CřPμCřC†Cř C,P° PSPēCřPsPe (SHARP) б҃ C†Pμ P±P°PĭP°C, PsPSP°C†C-PsPSP°P»CHPSPμ CřP°PSPrPsPjC-P·PsPIP°PSPμ PĭP»P°C†PμP±Ps-PePsPSC,CřPsP»CHPsPIP°PSPμ PĭPsPrPIC-PNēPSPμ CřP»C-PĭPμ PrPsCřP»C-PrP¶PμPSPSCř P· CřC‡P°CřC,Cř 9438 PĭP°C†C-C" PSC,C-PI C-P· C...CřPsPSC-C‡PSPēPj P·P°C...PIPsCřCřPIP°PSPSCřPj PSPēCřPsPe, C,CřPμC,PēPSP° P· CřPePēC... PSP° PĭPsC‡P°C,PePsPIPsPjCř PμC,P°PĭC- P·PSP°C...PsPrPēP»PēCřCř PSP° PrC-P°P»C-P·C-. P—P°PĭP°P»PsPj 4650 PĭP°C†C-C" PSC,P°Pj P±CřP»Ps PĭCřPēP·PSP°C‡PμPSPs C,,C-PeCřPsPIP°PSCř PrPsP·Cř PePsPjP±C-PSP°C†C-C— PμP·PμC,PēPjC-P±Cř 10 PjPi C-P· CřPēPjPIP°CřC,P°C,PēPSPsPj 20 PjPi, P° 4620 б҃ PĭP»P°C†PμP±Ps; PĭP°C†C-C" PSC,Pē P·PSP°C...PsPrPēP»PēCřCř PĭC-Pr PSP°PĭP»CřPrPsPj Cř CřPμCřPμPrPSCħPsPjCř 4,9 CřPsPeCř. PŸPμCřPμPrPSC-PNē PIC-Pe PĭP°C†C-C" PSC,C-PI CřC,P°PSPsPIPēPI 62 CřPsPePē; 63 % P±CřP»Pē C‡PsP»PsPIC-C‡PsC— CřC,P°C,C-; 72 % P±CřP»Pē PeP°PIPeP°P·CHPePsC— PSP°C†C-PsPSP°P»CHPSPsCřC,C-; 23 % PjP°P»Pē PrC-P°P±PμC,, P° PrP»Cř C,PēC..., C...C,Ps PSPμ PsC,CřPēPjCřPIP°PI PrC-P°P»C-P·, CřPμCřPμPrPSCř PsC†C-PSCřPIP°PSP° CēPIPēPrPeC-CřC,Cř PeP»CřP±PsC‡PePsPIPsC— C,,C-P»CHC,CřP°C†C-C— (PēPľPα) CřC,P°PSPsPIPēP»P° 26,5 PjP»/C...PI/1,73 Pj². PľCřPēC,PμCřC-C—PI PĭPĭPμPrPμPSPSCř P»C-PĭC-PrC-PI PSPμ P±CřP»Ps. PŸPμCřPμPrPSC-PNē CřC-PIPμPSCħ PŸPŸ P>PμPķP© PSP° PĭPsC‡P°C,PePsPIPsPjCř PμC,P°PĭC- CřC,P°PSPsPIPēP»P° 108 PjPi/PrP». PŸPμCřPμP· CřC-Pe, Cř C,PsPjCř C‡PēCřP»C- Cř PĭP°C†C-C" PSC,C-PI, CřPeC- P±C-P»CHCēPμ PSPμ PĭCřPēPNēPjP°P»Pē PrPsCřP»C-PrP¶CřPIP°PSC- P»C-PePē, PŸPŸ P>PμPķP© P·PSPēP·PēPICřCř PSP° 26 % PĭCřPē PjPsPSPsC,PμCřP°PĭC-C— CřPēPjPIP°CřC,P°C,PēPSPsPj Cř PrPsP·C- 20 PjPi C,P° PSP° 38 % PĭCřPē PĭCřPēPNēPsPjC- PμP·PμC,PēPjC-P±Cř Cř PrPsP·C- 10 PjPi PI PePsPjP±C-PSP°C†C-C— P· CřPēPjPIP°CřC,P°C,PēPSPsPj Cř PrPsP·C- 20 PjPi PĭPsCřC-PIPSCřPSPs P· PĭP»P°C†PμP±Ps.

PμPμCřPIPēPSPSPμ PĭPsCřC-PIPSCřPSPSCř, CřPePμ P±CřP»Ps PIPēP·PSP°C‡PμPSPs Cř PĭCřPsC,PsPePsP»C- SHARP, б҃ C†Pμ P°PSP°P»C-P· PIC-PrPĭPsPIC-PrPSPs PrPs PĭPsC‡P°C,PePsPIPs PĭCřPēP·PSP°C‡PμPSPsPiPs P»C-PeCřPIP°PSPSCř B«PsCřPSPsPIPSPēC... CřCřPrPēPSPSPēC... PĭPsPrC-PNēB» (PħPŸPμ, C‰Ps PIPēP·PSP°C‡P°PICřCř CřPe PSPμP»PμC,P°P»CHPSPēPNē P†Pħ P°P±Ps P·CřPĭPēPSPēP° CřPμCřC†Cř, C-PSCřCřP»CHC, P°P±Ps P±CřPrCħ-CřPeP° PĭCřPsC†PμPrCřCřP° CřPμPIP°CřPeCřP»CřCřPēP·P°C†C-C—) C,C-P»CHPePē PI C,PēC... PĭP°C†C-C" PSC,C-PI, CřPeC- CřPĭPsC‡P°C,PeCř P±CřP»Pē

C₇H^oPSP_rPsPjC-P·PsPIP^oPSC- PI PiC₇C_rPiC_r P_μP·P_μC,PëPjC-P±C_r PI PePsPjP±C-PSP^oC_rC-C— P·
 C₇PëPjPIP^oC_rC,P^oC,PëPSPsPj (n = 4193) P^oP±Ps PI PiC₇C_rPiC_r P_iP»P^oC_rP_μP±Ps (n = 4191).
 P^oC,PsC₇PëPSPSC- P^oPSP^oP»C-P·Pë PIPeP»C₇C_rP»Pë P^oPSP^oP»PsPiC-C_rPSC_r
 PePsPjP±C-PSP^oC_rC-C₇, PiC₇PsP^oPSP^oP»C-P·PsPIP^oPSC_r PrP»C₇ PIC₇C-C^oC— PePsPiPsC₇C,Pë,
 C₇H^oPSP_rPsPjC-P·PsPIP^oPSPsC— (PSP^o PiPsC_rP^oC,PePsPiPsPjC_r P_μC,P^oPiC-
 PrPsC₇P»C-PrP_μPSPSC₇ P^oP±Ps C_rP_μC₇P_μP· 1 C₇C-Pe) PrP»C₇ PiC₇PëP_μPsPjC_r
 P_μP·P_μC,PëPjC-P±C_r PI PePsPjP±C-PSP^oC_rC-C— P· C₇PëPjPIP^oC_rC,P^oC,PëPSPsPj (n = 4650)
 P^oP±Ps P_iP»P^oC_rP_μP±Ps (n = 4620), P^o C,P^oPePsP_μ PePsPjPiPsPSP_μPSC,Pë C_rC-C^oC—
 PePsPjP±C-PSP^oC_rC-C—. PhPSP^oP»C-P· PiP_μC₇PIPëPSPSPsC— PeC-PSC_rP_μPIPsC— C,PsC_rPePë
 PiPsPeP^oP·P^oPI, C₇Ps P_μP·P_μC,PëPjC-P± C_r PePsPjP±C-PSP^oC_rC-C— C-P·
 C₇PëPjPIP^oC_rC,P^oC,PëPSPsPj P·PSP^oC_rPSPs P·PjP_μPSCePëPI C₇PëP·PëPe C₇PsP·PIPëC,PeC_r
 C₇C_rPrPëPSPSPëC... PiPsPrC-PN₂ (749 PiP^oC_rC-C^oPSC,C-PI P· PiPsPrC-C₇PjPë C_r PiC₇C_rPiC-
 P_iP»P^oC_rP_μP±Ps C,P^o 639 C_r PiC₇C_rPiC- P_μP·P_μC,PëPjC-P±C_r PI PiPsC^oPrPSP^oPSPSC- P·
 PiC₇C_rPiPsC₇ C₇PëPjPIP^oC_rC,P^oC,PëPSC_r) P· PIC-PrPSPsC₇PSPëPj P·PjP_μPSCeP_μPSPSC₇Pj
 C₇PëP·PëPeC_r PSP^o 16 % (C₇ = 0,001). P_yPëPj PSP_μ PjP_μPSCeP_μ, C_rP_μPN₂ P_iP»P^oPS
 PrPsC₇P»C-PrP_μPSPSC₇ PSP_μ PrPsP·PIPsP»PëPI P·C₇PsP±PëC,Pë PsPeC₇P_μPjPëPN₂
 PIPSP_μC₇PsPe PjPsPSPsPePsPjPiPsPSP_μPSC,PSPsPiPs P_μP·P_μC,PëPjC-P±C_r PI
 P_μC,,P_μPeC,PëPIPsC-C₇C,C₇, C₇PsP± P·PSP^oC_rPSPs P·PjP_μPSCePëC,Pë C₇PëP·PëPe
 PIPëPSPëPePSP_μPSPSC₇ C₇C_rPrPëPSPSPëC... PiPsPrC-PN₂ C_r PiP^oC_rC-C^oPSC,C-PI C-P·
 P₇P—P₇. PhPeC₇P_μPjC- PePsPjPiPsPSP_μPSC,Pë PhP₇P_μ C_r PIC₇C-C...
 C₇H^oPSP_rPsPjC-P·PsPIP^oPSPëC... PiP^oC_rC-C^oPSC,C-PI PiC₇P_μPrC₇C,P^oPIP»P_μPSC- PI
 P_yP^oP±P»PëC_rC- 2. P·P·P_μC,PëPjC-P± C_r PePsPjP±C-PSP^oC_rC-C— C-P·
 C₇PëPjPIP^oC_rC,P^oC,PëPSPsPj P·PSP^oC_rPSPs P·PjP_μPSCePëPI C₇PëP·PëPe C-PSC₇C_rP»C₇C,C_r
 C,P^o P±C_rPrC₇C-C₇PePsC— C₇P_μPIP^oC₇PeC_rP»C₇C₇PëP·P^oC_rC-C— P·
 PSP_μP·PSP^oC_rPSPëPjPë C_rPëC₇P»PsPIPëPjPë PIC-PrPjC-PSPSPsC₇C,C₇PjPë P·
 PiP_μC₇P_μPIP^oPiPsC₇ P_μP·P_μC,PëPjC-P±C_r PI PePsPjP±C-PSP^oC_rC-C— P·
 C₇PëPjPIP^oC_rC,P^oC,PëPSPsPj PiC₇Pë PSP_μP»P_μC,P^oP»C₇PsPjC_r P_rP₇ C,P^o
 P·C_rPiPëPSC_rC- C₇P_μC₇C₇C₇.

PhC₇PSPsPIPSC- C₇C_rPrPëPSPSC- PiPsPrC-C— P·P^o PiC₇C_rPiP^oPjPë
 P»C-PeC_rPIP^oPSPSC₇ C_r PIC₇C-C... C₇H^oPSP_rPsPjC-P·PsPIP^oPSPëC...
 PiP^oC_rC-C^oPSC,C-PI C_r PrPsC₇P»C-PrP_μPSPSC- SHARP^a.

P_yP^oP±P»PëC_rC₇ 2.

P P _μ P·C _r P»C ₇ C,P ^o C, P _μ P·P _μ C,PëPjC-P± 10 PjPi C _r PePsPjP±C-PSP ^o C _r C-C— P· C ₇ PëPjPIP ^o C _r C,P ^o C,PëPSPsPj 20 PjPi (N = 4650)	P _μ P·P _μ C,PëPjC-P± 10 PjPi C _r PePsPjP±C-PSP ^o C _r C-C— P· C ₇ PëPjPIP ^o C _r C,P ^o C,PëPSPsPj 20 PjPi (N = 4650)	P _μ P»P ^o C _r P _μ P±Ps (N = 4620)	P _y PiC-PIPiC-PrPSPsC ₇ PSPSC ₇ P C ₇ PëP·PëPeC _r (95 % P ^o P _i)	P·PSP ^o C _r P _μ PSPSC ₇
PhC ₇ PSPsPIPSC- C ₇ C _r PrPëPSPSC- PiPsPrC-C—	701 (15,1 %)	814 (17,6 %)	0,85 (0,77 в ₇ “ 0,94)	0,001
P ₇ P _μ P»P _μ C,P ^o P»C ₇ PsPëPN ₂ P _r P ₇	134 (2,9 %)	159 (3,4 %)	0,84 (0,66 в ₇ “ 1,05)	0,12
P—C _r PiPëPSPeP ^o C ₇ P _μ C ₇ C ₇ C ₇	253 (5,4 %)	272 (5,9 %)	0,93 (0,78 в ₇ “ 1,10)	0,38
P ^o C _r PrC ₇ C-C ₇ PePëPN ₂ C-PSC ₇ C _r P»C ₇ C,	171 (3,7 %)	210 (4,5 %)	0,81 (0,66 в ₇ “ 0,99)	0,038
P ₇ P _μ PiP _μ PjPsC ₇ P ^o PiC-C _r PSPëPN ₂ C-PSC ₇ C _r P»C ₇ C,	131 (2,8 %)	174 (3,8 %)	0,75 (0,60 в ₇ “ 0,94)	0,011
P ^o P _μ PjPsC ₇ P ^o PiC-C _r PSPëPN ₂ C-PSC ₇ C _r P»C ₇ C,	45 (1,0 %)	37 (0,8 %)	1,21 (0,78 в ₇ “ 1,86)	0,40
P ^o C _r PrC ₇ C-C ₇ PeP ^o C ₇ P _μ PIP ^o C ₇ PeC _r P»C ₇ C ₇ PëP·P ^o C _r C-C ₇	284 (6,1 %)	352 (7,6 %)	0,79 (0,68 в ₇ “ 0,93)	0,004

PhCfPSPsPIPSC- P°C,PμCfPSCfPeP»PμCfPSC,PëCfPSC- PiPsPrC-C— (PhPhPμ) ^b	526 (11,3 %)	619 (13,4 %)	0,83 (0,74 вЂ” 0,94)	0,002
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a PhPSP°P»C-P· PIC-PrPiPsPIC-PrPSPs PrPs PiPsCfP°C,PePsPIPs
PiCfPëP·PSP°CfPμPSPsPiPs P»C-PeCrPIP°PSPSCf PrP»Cf PICfC-C...
PiP°CfC-C”PSC,C-PI SHARP, CfP°PSPrPsPjC-P·PsPIP°PSPëC... PrP»Cf PiCfPëPNëPsPjCf
PμP·PμC,PëPjC-P±Cr PI PePsPjP±C-PSP°CfC-C— P· CfPëPjPIP°CfC,P°C,PëPSPsPj P°P±Ps
PiP»P°CfPμP±Ps CfPe PSP° PiPsCfP°C,PePsPIPsPjCf PμC,P°PiC-, C,P°Pe C- CfPμCfPμP·
1 CfC-Pe.

b PhPhPμ; PIPëP·PSP°CfP°C”C,ChCfCf CfPe PePsPjP±C-PSP°CfC-Cf
PSPμP»PμC,P°P»ChPSPsPiPs C-PSC,„P°CfPeC,Cr PjC-PsPeP°CfPrP°, PePsCfPSPSP°CfPSPsC—
CfPjPμCfC,C-, PSPμPiPμPjPsCfP°PiC-CfPSPsPiPs C-PSCfCfP»ChC,Cr P°P±Ps P±CrPrCh-
CfPePsC— CfPμPIP°CfPeCrP»CfCfPëP·P°CfC-C—.

PhP±CfPsP»ChC,PSPμ P·PSPëPfPμPSPSCf CfC-PIPSfC...PsP»PμCfC,PμCfPëPSCf P»PμPëP©,
PrPsCfCfPiPSCfC,PsPiPs PμP·PμC,PëPjC-P±PsPj Cr PePsPjP±C-PSP°CfC-C— P·
CfPëPjPIP°CfC,P°C,PëPSPsPj, P±CrP»Ps PSPëPfCfPëPj CfPμCfPμPr PiP°CfC-C”PSC,C-PI P·
PSPëPfCfPëPj PiPsCfP°C,PePsPIPëPj CfC-PIPSfPj PfPŸ P»PμPëP©
(< 2,5 PjPjPsP»Ch/P») C,P° PiP°CfC-C”PSC,C-PI, CfPeC- PsC,CfPëPjCfPIP°P»Pë PrC-P°P»C-P·
PSP° PiPsCfP°C,PePsPIPsPjCf PμC,P°PiC-, PSC-Pf Cr C-PSCëPëC... PiP°CfC-C”PSC,C-PI, P°
PIC-PrPiPsPIC-PrPSPμ P·PSPëPfPμPSPSCf CfPëP·PëPeCr PI CfPëC... PrPIPsC... PiCfCfPiP°C...
P±CrP»Ps PiPsCfP»P°P±P»PμPSPs.

P”PsPjPsP·PëPiPsC,PSP° CfC-PjPμPNëPSP° PiC-PiPμCfC...PsP»PμCfC,PμCfPëPSPμPjC-Cf
(P”PsPŸP”)

Pj PiPsPrPIC-PNëPSPsPjCf CfP»C-PiPsPjCf CfP°PSPrPsPjC-P·PsPIP°PSPsPjCf 12-
C,PëPfPSPμPIPsPjCf PrPsCfP»C-PrPfPμPSPSC- PIP·CfP»Pë CrCfP°CfC,Ch 50
PiP°CfC-C”PSC,C-PI P· PeP»C-PSC-CfPSPëPj C,P°/P°P±Ps PiPμPSPsC,PëPiPsPIPëPj
PrC-P°PiPSPsP·PsPj P”PsPŸP”, CfPeC- PsC,CfPëPjCfPIP°P»Pë P°C,PsCfPIP°CfC,P°C,PëPS
P°P±Ps CfPëPjPIP°CfC,P°C,PëPS (40 PjPi) P· P°P±Ps P±PμP· CfCfPiCfC,PSChPsPiPs
P°C,„PμCfPsP·Cr P»PμPëP©. P·P·PμC,PëPjC-P± CfCfPiCfC,PSChPs P·
P°C,PsCfPIP°CfC,P°C,PëPSPsPj (40 P°P±Ps 80 PjPi) P°P±Ps CfPëPjPIP°CfC,P°C,PëPSPsPj (40
P°P±Ps 80 PjPi) P·PSP°CfPSPs P·PSPëP·PëPI CfC-PIPμPSCh PfPŸ P»PμPëP© PSP° 15 %
PiPsCfC-PIPSfPSPs P·C- P·P±C-P»ChCëPμPSPSCfPj PrPsP·Pë CfPëPjPIP°CfC,P°C,PëPSCf
P°P±Ps PjPsPSPsC,PμCfP°PiC-C”Ch P°C,PsCfPIP°CfC,P°C,PëPSPsPj PIC-Pr 40 PrPs
80 PjPi.

P”PsPjPsP·PëPiPsC,PSP° CfPëC,PsCfC,PμCfPsP»PμPjC-Cf (C,„C-C,PsCfC,PμCfPsP»PμPjC-Cf)

Pj PiPsPrPIC-PNëPSPsPjCf CfP»C-PiPsPjCf PiP»P°CfPμP±Ps-PePsPSC,CfPsP»ChPsPIP°PSPsPjCf
8-C,PëPfPSPμPIPsPjCf PrPsCfP»C-PrPfPμPSPSC- 37 PiP°CfC-C”PSC,C-PI C-P·
PiPsPjPsP·PëPiPsC,PSPsCh CfPëC,PsCfC,PμPSPsPμPjC-C”Ch P±CrP»Pë
CfP°PSPrPsPjC-P·PsPIP°PSC- PrP»Cf PiCfPëPNëPsPjCf PμP·PμC,PëPjC-P±Cr 10 PjPi (n = 30)
P°P±Ps PiP»P°CfPμP±Ps (n = 7). P”PμCfPeC- PiP°CfC-C”PSC,Pë PsC,CfPëPjCfPIP°P»Pë
C-PSCëPμ P»C-PeCrPIP°PSPSCf (PSP°PiCfPëPeP»P°Pr, CfC,P°C,PëPSPë, CfPjPsP»Pë).
P·P·PμC,PëPjC-P± P·PSP°CfPSPs P·PSPëP·PëPI PsP±PëPrPIP° PsCfPSPsPIPSC-
CfPsCfP»PëPSPSC- CfC,PμCfPsP»Pë, CfPëC,PsCfC,PμCfPsP» C,P° PeP°PjPiPμCfC,PμCfPsP»,

PIC-PrPīPsPIC-PrPSPs PSP° 21 % C,P° 24 % PīPsCḡC-PIPSCḡPSPs P· PīPsC‡P°C,PePsPIPēPj CḡC-PIPSPμPj. P'PīP»PēPI P·PjPμPSCēPμPSPSCḡ CḡPēC,PsCḡC,PμCḡPsP»Cḡ PSP° P·P°C...PIPSCḡCḡPIP°PSC-CḡC,CH C,P° P»PμC,P°P»CHPSC-CḡC,CH Cḡ C†C-PNē PīPsPīCḡP»CḡC†C-C— PSPμPIC-PrPsPjPēPNē.

PŸC,PμPSPsP· P°PsCḡC,Pē

P"PsCḡP»C-PrPḡPμPSPSCḡ CḡPēPjPIP°CḡC,P°C,PēPSCḡ C,P° PμP·PμC,PēPjC-P±Cḡ PrP»Cḡ P»C-PeCḡPIP°PSPSCḡ CḡC,PμPSPsP·Cḡ P°PsCḡC,Pē (SEAS) Bḡ" C†Pμ P±P°PiP°C,PsC†PμPSC,CḡPsPIPμ PīPsPrPIC-PNēPSPμ CḡP»C-PīPμ PīP»P°C†PμP±Ps-PePsPSC,CḡPsP»CHPsPIP°PSPμ PrPsCḡP»C-PrPḡPμPSPSCḡ CḡPμCḡPμPrPSCḡPsCḡ C,CḡPēPIP°P»C-CḡC,CH
4,4 CḡPsPePē P· CḡC‡P°CḡC,CH 1873 PīP°C†C-C"PSC,C-PI C-P· P±PμP·CḡPēPjPīC,PsPjPSPēPj CḡC,PμPSPsP·PsPj P°PsCḡC,Pē (PŸPḡ), PīC-PrC,PIPμCḡPrPḡPμPSPēPj CḡPμP·CḡP»CHC,P°C,P°PjPē P"PsPīPīP»PμCḡ-PμC...PsPeP°CḡPrC-PsPiCḡP°C,,C-C—, PīCḡPē CḡPeC-PNē CēPIPēPrPeC-CḡC,CH PīPsC,PsPeCḡ PīC-PeCḡ P°PsCḡC,Pē P±CḡP»P° PI PjPμPḡP°C... PIC-Pr 2,5 PrPs 4,0 Pj/Cḡ. P»PēCēPμ C,C- PīP°C†C-C"PSC,Pē, CḡPeC-, PSP° PrCḡPjPeCḡ P»C-PeP°CḡC-PI, PSPμ PīPsC,CḡPμP±CḡPIP°P»Pē P»C-PeCḡPIP°PSPSCḡ CḡC,P°C,PēPSP°PjPē P· PjPμC,PsCḡ P·PjPμPSCēPμPSPSCḡ CḡPēP·PēPeCḡ P°C,PμCḡPsCḡPeP»PμCḡPsC,PēC‡PSPēC... CḡPμCḡC†PμPIPs-CḡCḡPrPēPSPSPēC... P·P°C...PIPSCḡCḡPIP°PSCḡ, P±CḡP»Pē P·P°CḡP°C...PsPIP°PSC- Cḡ PrPsCḡP»C-PrPḡPμPSPSCḡ. PμP°C†C-C"PSC,Pē P±CḡP»Pē CḡP°PSPrPsPjC-P·PsPIP°PSC- 1:1 PrP»Cḡ PīCḡPēPNēPsPjCḡ PīP»P°C†PμP±Ps P°P±Ps CḡCḡPīCḡC,PSCHPsPiPs PIPiPμPrPμPSPSCḡ PμP·PμC,PēPjC-P±Cḡ 10 PjPi C,P° CḡPēPjPIP°CḡC,P°C,PēPSCḡ 40 PjPi C%PsPrPμPSPSPs.

PμPμCḡPIPēPSPSPsCḡ PeC-PSC†PμPIPsCḡ C,PsC‡PePsCḡ P±CḡP»P° PePsPjP±C-PSP°C†C-Cḡ PsCḡPSPsPIPSPēC... CḡPμCḡC†PμPIPs-CḡCḡPrPēPSPSPēC... PīPsPrC-PNē (PhPŸPμ), PrPs CḡPePēC... PIC...PsPrPēPI P»PμC,P°P»CHPSPēPNē PSP°CḡP»C-PrPsPe P· PīCḡPēC‡PēPSPē CḡPμCḡC†PμPIPs-CḡCḡPrPēPSPSPsC— PīP°C,PsP»PsPiC-C—, P·P°PjC-PSP° P°PsCḡC,P°P»CHPSPsPiPs PeP»P°PīP°PSP° (P—PḡPḡ), P·P°CḡC,C-PNēPSP° CḡPμCḡC†PμPIP° PSPμPrPsCḡC,P°C,PSC-CḡC,CH (P—PŸPḡ) PIPSP°CḡP»C-PrPsPe PīCḡPsPiCḡPμCḡCḡPIP°PSPSCḡ PŸPḡ, PSPμP»PμC,P°P»CHPSPēPNē C-PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP°, CēCḡPSC,CḡPIP°PSPSCḡ PePsCḡPsPSP°CḡPSPsC— P°CḡC,PμCḡC-C— (PēPḡPḡ), C‡PμCḡPμP·CēPeC-CḡPSPμ PePsCḡPsPSP°CḡPSPμ PIC,CḡCḡC‡P°PSPSCḡ (PḡPḡP'), PīPsCḡPīC-C,P°P»C-P·P°C†C-Cḡ PīCḡPē PSPμCḡC,P°P±C-P»CHPSC-PNē CḡC,PμPSPsPeP°CḡPrC-C— C,P° PSPμPiPμPjPsCḡP°PiC-C‡PSPēPNē C-PSCḡCḡP»CHC,, PḡP»CHC‡PsPIPēPjPē PIC,PsCḡPēPSPSPēPjPē PeC-PSC†PμPIPēPjPē C,PsC‡PeP°PjPē P±CḡP»Pē PePsPjP±C-PSP°C†C-C— PīC-PrPeP»P°CḡC-PI PeP°C,PμPiPsCḡC-PNē PīPsPrC-PNē PīPμCḡPIPēPSPSPēC... PeC-PSC†PμPIPēC... C,PsC‡PsPe.

PμPsCḡC-PIPSCḡPSPs P· PīP»P°C†PμP±Ps, PμP·PμC,PēPjC-P±/CḡPēPjPIP°CḡC,P°C,PēPS 10/40 PjPi PSPμCḡCḡC,C"PIPs P·PSPēP·PēPI CḡPēP·PēPe PhPŸPμ. PμPμCḡPIPēPSPSPēPNē CḡPμP·CḡP»CHC,P°C, CḡPīPsCḡC,PμCḡC-PiP°PICḡCḡ Cḡ 333 PīP°C†C-C"PSC,C-PI (35,3 %) Cḡ PīCḡCḡPīC- PμP·PμC,PēPjC-P±Cḡ/CḡPēPjPIP°CḡC,P°C,PēPSCḡ C,P° Cḡ 355 PīP°C†C-C"PSC,C-PI (38,2 %) Cḡ PīCḡCḡPīC- PīP»P°C†PμP±Ps (PIC-PrPSPsCēPμPSPSCḡ CḡPēP·PēPeCḡ PI PīCḡCḡPīC- PμP·PμC,PēPjC-P±Cḡ/CḡPēPjPIP°CḡC,P°C,PēPSCḡ 0,96; 95 % PrPsPIC-CḡC‡PēPNē C-PSC,PμCḡPIP°P», PIC-Pr 0,83 PrPs 1,12; Cḡ = 0,59). P—P°PjC-PSP° P°PsCḡC,P°P»CHPSPsPiPs PeP»P°PīP°PSP° P±CḡP»P° PīCḡPsPIPμPrPμPSP° Cḡ 267 PīP°C†C-C"PSC,C-PI (28,3 %) Cḡ PīCḡCḡPīC—

P P°Pe CÍPíPsCÍ'C,PµCĤC-PiP°PICÍ'CI C†P°CÍ'C,C-C€Pµ CÍ PiCĤCÍPiC-
PµP·PµC,PëPjC-P±CÍ'/CÍPëPjPIP°CÍ'C,P°C,PëPSCÍ (105 PiCĤPsC,Pë 70, CĤ = 0,01).
PљP»C-PSC-C‡PSP° P·PSP°C‡CÍ'C%OC-CÍ'C,CĤ C†CHPsPiPs CÍPíPsCÍ'C,PµCĤPµP¶PµPSPSCİ
C" PSPµPIPëP·PSP°C‡PµPSPsCĤ, PsCÍ'PeC-P»CHPePë PI PrPsCÍ'P»C-PrP¶PµPSPSC- SHARP
P±C-P»CHC€P° PeC-P»CHPeC-CÍ'C,CĤ PiP°C†C-C"PSC,C-PI P· P±CÍ'PrCH-CİPePëPj
CÍPiPµCĤC€Pµ PIPëCİPIP»PµPSPëPj CĤP°PePsPj (438 CÍ PiCĤCÍPiC-
PµP·PµC,PëPjC-P±CÍ'/CÍPëPjPIP°CÍ'C,P°C,PëPSCÍ C,P° 439 PI PiCĤCÍPiC- PîP»P°C†PµP±Ps) PSPµ
PIC-PrCĤC-P·PSCİP»PëCÍ'CI. PљCĤC-Pj C,PsPiPs, CÍ PrPsCÍ'P»C-PrP¶PµPSPSC- IMPROVE-IT
P·P°PiP°P»CHBPSP° PeC-P»CHPeC-CÍ'C,CĤ PîP°C†C-C"PSC,C-PI P· P±CÍ'PrCH-CİPePsCĤ
PSPsPIPsCĤ P·P»PsCİPeC-CÍ'PSPsCĤ PiCÍ'C...P»PëPSPsCĤ (853 CÍ PiCĤCÍPiC-
PµP·PµC,PëPjC-P±CÍ'/CÍPëPjPIP°CÍ'C,P°C,PëPSCÍ C,P° 863 CÍ PiCĤCÍPiC-
CÍPëPjPIP°CÍ'C,P°C,PëPSCÍ) C-CÍ'C,PsC,PSPs PSPµ PIC-PrCĤC-P·PSCİP»P°CÍ'CI, C-
C,PsPjCÍ PiPsC€CÍPe CĤPµP·CÍP»CHC,P°C,C-PI PrPsCÍ'P»C-PrP¶PµPSPSCİ SEAS PSPµ
PjPsP¶Pµ P±CÍ'C,Pë PiC-PrC,PIPµCĤPrP¶PµPSPëPNë PrPsCÍ'P»C-PrP¶PµPSPSCİPj SHARP
P°P±Ps IMPROVE-IT.

$$P \propto P^{\circ} C_T P_j P^{\circ} P_e P_s P_e C - P S P_{\mu} C, P \ddot{e} C \nmid P S C - P I P \gg P^{\circ} C \dot{I} C, P \ddot{e} P I P_s C \dot{I} C, C -$$

$P\hbar P \pm C\acute{I}P s C\grave{H}P \pm C\acute{I}C - C\grave{I}I$. $P_{\mu}C - C\acute{I}P \gg C\grave{I}I$ $P\acute{i}C\grave{H}P\acute{e}Pn\acute{e}PsPjC\acute{r}$ $PIPSC\acute{r}C, C\grave{H}C - C\acute{e}PSC\hbar Ps$
 $P_{\mu}P \cdot P_{\mu}C, P\acute{e}PjC - P \pm C\acute{e}PIP\acute{e}PrPePs$ $PIC\acute{I}PjPsPeC, C\acute{r}C" C, C\hbar C\acute{I}C\grave{I}I$ $C, P^{\circ} P^{\circ}PeC, P\acute{e}PIPSPs$
 $PePsPSB\hbar^{\text{TM}} C\hbar PiC\acute{r}C" P \cdot C\acute{r}C, PIPsC\grave{H}P_{\mu}PSPSC\grave{I}I Pj C, P^{\circ}C\grave{H}PjP^{\circ}PePsP \gg PsPiC - C\ddagger PSPs$
 $P^{\circ}PeC, P\acute{e}PIPSPsPiPs C, P_{\mu}PSPsP \gg C\hbar PSPsPiPs$ $PiP \gg C\hbar PeC\acute{r}C\grave{H}PsPSC - PrC\acute{r}$ $(P_{\mu}P \cdot P_{\mu}C, P\acute{e}PjC - P \pm$
 $PiP \gg C\hbar PeC\acute{r}C\grave{H}PsPSC - Pr)$. B $P\check{Y}P_{\mu}C\grave{H}P_{\mu}PrPSC\grave{I}I$ $PjP^{\circ}PeC\acute{I}P\acute{e}PjP^{\circ}P \gg C\hbar PSP^{\circ}$
 $PePsPSC\ddagger P_{\mu}PSC, C\grave{H}P^{\circ}C\ddagger C - C\grave{I}I$ $(P\check{Y}mP^{\circ}C \dots)$ $C\acute{r}$ $P\acute{i}P \gg P^{\circ}P \cdot PjC - PeC\grave{H}PsPIC -$
 $PrPsC\acute{I}C\grave{I}IPiP^{\circ}C" C, C\hbar C\acute{I}C\grave{I}I$ $C\ddagger P_{\mu}C\grave{H}P_{\mu}P \cdot 1$ $B\hbar" 2$ $PiPsPrP\acute{e}PSP\acute{e}$ $PrP \gg C\grave{I}I$ $P_{\mu}P \cdot P_{\mu}C, P\acute{e}PjC - P \pm C\acute{r} -$
 $PiP \gg C\hbar PeC\acute{r}C\grave{H}PsPSC - PrC\acute{r} C - C\ddagger P_{\mu}C\grave{H}P_{\mu}P \cdot 4$ $B\hbar" 12$ $PiPsPrP\acute{e}PSP\acute{e}$ $PrP \gg C\grave{I}I$ $P_{\mu}P \cdot P_{\mu}C, P\acute{e}PjC - P \pm C\acute{r}$.
 $P\hbar P \pm C\acute{I}PsP \gg C\hbar C, PSC\acute{r} P \pm C - PsPrPsC\acute{I}C, C\acute{r}P\acute{i}PSC - C\acute{I}C, C\hbar P_{\mu}P \cdot P_{\mu}C, P\acute{e}PjC - P \pm C\acute{r}$
 $PIP\acute{e}P \cdot PSP^{\circ}C\ddagger P\acute{e}C, P\acute{e} PSP_{\mu}PjPsP\P P \gg P\acute{e}PIPs, PsC\acute{I}PeC - P \gg C\hbar PeP\acute{e} C\ddagger C\grave{I}I$ $C\acute{I}P\acute{i}PsP \gg C\acute{r}PeP^{\circ}$
 $PSP_{\mu}C\grave{H}PsP \cdot C\ddagger P\acute{e}PSPSP^{\circ}$ $C\acute{r}$ $PIPsPrPSPsPjC\acute{r}$ $C\acute{I}P_{\mu}C\grave{H}P_{\mu}PrPsPIP\acute{e}C\% C -, P\acute{i}C\grave{H}P\acute{e}PrP^{\circ}C, PSPsPjC\acute{r}$
 $PrP \gg C\grave{I}I$ $C - PSB\hbar^{\text{TM}} C" PeC\ddagger C - Pn\acute{e}$.

PhPrPSPSc±P°CfPSPëPNë PïCfPëPNëPsPj C—P¶C— (P· PSPëP·CHPePëPj P°P±Ps PIPëCfPsPePëPj PIPjC—CfC,PsPj P¶PëCfCr) PSPµ PIPiP»PëPIP°C” PSP° PïPµCfPsCfP°P»CHPSCf P±C—PsPrPsCfC,CfPïPSC—CfC,CH PµP·PµC,PëPjC—P±Cf. P·P·PµC,PëPjC—P± PjPsP¶PSP° PïCfPëPNëPjP°C,Pë PSPµP·P°P»PµP¶PSPs PIC—Pr PïCfPëPNëPsPjCf C—P¶C—.

$P\text{Ps}P\cdot\text{PiPsPrC}-P\gg P\cdot P\cdot\text{P}_{\mu}\text{C}, \text{P}\ddot{\text{e}}\text{PjC}-P\pm C, P^{\circ}\text{P}_{\mu}\text{P}\cdot\text{P}_{\mu}\text{C}, \text{P}\ddot{\text{e}}\text{PjC}-P\pm\text{PiP}\gg\text{C}\ddot{\text{H}}\text{PePsC}\ddot{\text{H}}\text{PsPSC}-\text{Pr}$
 $P\cdot\text{PiB}\ddot{\text{H}}^{\text{TM}}\text{C}\ddot{\text{U}}\text{P}\cdot\text{CrC}\ddot{\text{H}}\text{C}, \text{CHC}\ddot{\text{I}}^{\text{TM}}\text{C}\ddot{\text{U}}\text{P}\cdot P\pm C-P\gg\text{Pe}P^{\circ}\text{PjP}\ddot{\text{e}}\text{PiP}\gg P^{\circ}\text{P}\cdot\text{PjP}\ddot{\text{e}}\text{PeC}\ddot{\text{H}}\text{PsPIC}-$
 $P\gg\text{C}\ddot{\text{H}}\text{PrP}\ddot{\text{e}}\text{PSP}\ddot{\text{e}}\text{PSP}^{\circ}$
 99.7 % C, P^o 88 БТ^o 92 % PIC-PrPiPsPIC-PrPSPs.

P_hP_μC, P°P±PsP»C-P·Pj. P_μP_μC_hPIPëPSPSPëPN₂ PjP_μC, P°P±PsP»C-P·Pj
P_μP·P_μC, PëPjC-P±C₁ PIC-PrP±C₁PIP°C₁C, CHC₁C₁ PI C, PsPSPePsPjC₁
PePëCëP_μC±PSPëPeC₁ C- P_iP_μC±C-PSC₁C- CëP»C₁C...PsPj PePsPSB_hTM C_hPiP°C₁C-C— P·
PiP»C_hPeC₁C_hPsPSC-PrPsPj (C_hP_μP°PeC₁C-C₁ II C₁, P°P·Pë) P· P_iPsPrP°P»CHCëPëPj
PIPëPIP_μPrP_μPSPSC₁Pj C-P· P₁PsPIC±C_h. P_hC-PSC-PjP°P»CHPSPëPN₂ PsPePëC₁PSPëPN₂
PjP_μC, P°P±PsP»C-P·Pj (C_hP_μP°PeC₁C-C₁ I C₁, P°P·Pë) C₁P_iPsC₁C, P_μC_hC-PiP°PIC₁C₁
PSP° PIC₁C-C... P_μC, P°PiP°C... C, C_hP°PSC₁C₁, PsC_hPjP°C₁C-C—. P·P·P_μC, PëPjC-P± C, P°
P_μP·P_μC, PëPjC-P±-PiP»C_hPeC₁C_hPsPSC-Pr C₁ PsC₁PSPsPIPSPëPjPë
C_hP_μC±PsPIPëPSP°PjPë, C%₀Ps PIPëP·PSP°C±P°C_hC, CHC₁C₁ C₁ PiP»P°P·PjC-
PeC_hPsPIC-, C, P° C₁C, P°PSPsPIP»C₁C, CH P_iC_hPëP±P»PëP·PSPs 10 B_h“ 20 % C- 80 B_h“ 90
% PIC-Pr P·P°PiP°P»CHPSPsPiPs PIPjC-C₁C, C₁ PiC_hP_μPiP°C_hP°C, C₁ C₁ PiP»P°P·PjC-
PIC-PrPiPsPIC-PrPSPs. P·P·P_μC, PëPjC-P± C, P° P_μP·P_μC, PëPjC-P±-
PiP»C_hPeC₁C_hPsPSC-Pr P_iPsPIC-P»CHPSPs PIPëPIPsPrC₁C, CHC₁C₁ P· PiP»P°P·PjPë
PeC_hPsPIC- PI PiC_hPsC₁P_μC₁C- PePëCëPePsPIPs-PiP_μC±C-PSPePsPIPsC—
C_hP_μC₁PëC_hPeC₁P»C₁C₁C-C—. P_μP_μC_hC-PsPr PSP°PiC-PIPIPëPIP_μPrP_μPSPSC₁
P_μP·P_μC, PëPjC-P±C₁ C, P° P_μP·P_μC, PëPjC-P±C₁-PiP»C_hPeC₁C_hPsPSC-PrC₁
C₁C, P°PSPsPIPëC, CH P_iC_hPëP±P»PëP·PSPs 22 PiPsPrPëPSPë.

P'PëPIP_μPrP_μPSPSC₁. P_μC-C₁P»C₁ PiC_hPëPN₂PsPjC₁ PrPsP±C_hPsPIPsP»CHC₁C₁PjPë
PIPSC₁C, C_hC-CëPSC_hPs 20 PjPi ¹⁴P_h-P_μP·P_μC, PëPjC-P±C₁ C₁ PiP»P°P·PjC- PeC_hPsPIC-
P±C₁P»Ps PIPëC₁PIP»P_μPSPs PiC_hPëP±P»PëP·PSPs 93 % C₁C₁PjP°C_hPSPsPiPs
P_μP·P_μC, PëPjC-P±C₁ PIC-Pr P·P°PiP°P»CHPSPsC— C_hP°PrC-PsP°PeC, PëPIPSPsC₁C, C-
PiP»P°P·PjPë. P_μC_hPëP±P»PëP·PSPs 78 % C- 11 % PiC_hPëPN₂PSC₁C, PsC—
C_hP°PrC-PsP°PeC, PëPIPSPsC— PrPsP·Pë P±C₁P»Ps PIPëPIP_μPrP_μPSPs P· PeP°P»PsPj C-
C₁P_μC±P_μC_h PIC-PrPiPsPIC-PrPSPs PiC_hPsC, C₁PiPsPj 10 PrPSC-PI. P_hP_μC_hP_μ· 48 PiPsPrPëPS
C₁P»C-PrPë C_hP°PrC-PsP°PeC, PëPIPSPsC₁C, C- C₁ PiP»P°P·PjC- PeC_hPsPIC- PSP_μ
PIPëC₁PIP»C₁P»PëC₁C₁.

P_hC₁PsP±P»PëPIC- PiC_hC₁PiPë PiP°C₁C-C₁PSC, C-PI

P°C-C, Pë

P_μP°C_hPjP°PePsPeC-PSP_μC, PëPeP° P_μP·P_μC, PëPjC-P±C₁ C₁C...PsP₁P° C₁ PrC-C, P_μPN₂
PIC-PePsPj PIC-Pr 6 C_hPsPeC-PI C- PrPsC_hPsC₁P»PëC....
P_μP°C_hPjP°PePsPeC-PSP_μC, PëC±PSPëC... PrP°PSPëC... C%₀PsPrPs
P·P°C₁C, PsC₁C₁PIP°PSPSC₁ PrC-C, C₁Pj PIC-PePsPj PrPs 6 C_hPsPeC-PI PSP_μPjP°C₁”.
P_hP»C-PSC-C±PSPëPN₂ PrPsC₁PIC-Pr C₁ PrC-C, P_μPN₂ C- PiC-PrP»C-C, PeC-PI
PIPeP»C_hC±P°C₁ PiP°C₁C-C₁PSC, C-PI P· P°PsP_hP°, P°P_μP_hP° P°P±Ps
C₁PëC, PsC₁C, P_μC_hPëPSP_μPjC-C₁C_h.

P_μP°C₁C-C₁PSC, Pë P»C-C, PSCH_hPsPiPs PIC-PeC₁

Pj PiP°C₁C-C₁PSC, C-PI P»C-C, PSCH_hPsPiPs PIC-PeC₁ (PiPsPSP°Pr 65 C_hPsPeC-PI)
PePsPSC₁P_μPSC, C_hP°C₁C-C₁ C₁ PiP»P°P·PjC- PeC_hPsPIC- P·P°PiP°P»CHPSPsPiPs
P_μP·P_μC, PëPjC-P±C₁ PiC_hPëP±P»PëP·PSPs PIP₁PIC-C±C- PIPëC%₀P°, PSC-P₁ C₁
PjPsP»PsPrCëPëC... PiP°C₁C-C₁PSC, C-PI (18 B_h“ 45 C_hPsPeC-PI). P—PSPëP₁P_μPSPSC₁ P₁P_h
P·P_μP_hP° C- PiC_hPsC₁, C-P»CH P±P_μP·PiP_μPePë PiC_hPëP±P»PëP·PSPs PsPrPSP°PePsPIC- C₁
PiP°C₁C-C₁PSC, C-PI P»C-C, PSCH_hPsPiPs PIC-PeC₁ C- PjPsP»PsPrPëC... PiP°C₁C-C₁PSC, C-PI,
C₁PeC- PiC_hPëPN₂PjP°C_hC, CH P_μP·P_μC, PëPjC-P±.B P_hPsPjC₁ PrP»C₁ PiP°C₁C-C₁PSC, C-PI

P»C-C,PSCHbPsPiPs PIC-PeCr PSPµPjP°C” PīPsC,CHPµP±Pë PI PePsCHPµPeC†C-C— PrPsP·Pë.

PµPµC‡C-PSPePsPIP° PSPµPrPsCÍC,P°C,PSC-CÍC,CH

PµC-CÍP»CÍ PsPrPSPsCHP°P·PsPIPsPiPs PīCHPëPNëPsPjCr 10 PjPi PµP·PµC,PëPjC-P±Cr P·PSP°C‡PµPSPSCÍ CÍPµCHPµPrPSCbPsC— PīP»PsC%oC- PīC-Pr PeCHPëPIPsCH B«PePsPSC†PµPSC,CHP°C†C-CÍ BĤ” C‡P°CÍB» (PĤUC) PrP»CÍ P·P°PiP°P»CHbPSPsPiPs PµP·PµC,PëPjC-P±Cr P±CrP»Ps PI 1,7 CHP°P·P° PIPëC%oPëPj Cr PīP°C†C-C”PSC,C-PI C-P· PīPµC‡C-PSPePsPIPsCH PSPµPrPsCÍC,P°C,PSC-CÍC,CH P»PµPiPePsPiPs CÍC,CrPīPµPSCÍ (5 BĤ” 6 P±P°P»C-PI P·P° CëPeP°P»PsCH PŞP°PNëP»PrP°-PµBĤ™ CH), PSC-P¶ Cr P·PrPsCHPµPIPëC... PrPsP±CHPµPIPsP»CHC†C-PI. PµCHPµC,CÍPiPsPj 14-PrPµPSPSPsPiPs PrPsCÍP»C-PrP¶PµPSPSCÍ P· P±P°PiP°C,PsCHP°P·PsPIPëPj PīCHPëPNëPsPjPsPj PµP·PµC,PëPjC-P±Cr (PīPs 10 PjPi C%oPsPrPSCÍ) Cr PīP°C†C-C”PSC,C-PI C-P· PīPµC‡C-PSPePsPIPsCH PSPµPrPsCÍC,P°C,PSC-CÍC,CH PīPsPjC-CHPSPsPiPs CÍC,CrPīPµPSCÍ (7 BĤ” 9 P±P°P»C-PI P·P° CëPeP°P»PsCH PŞP°PNëP»PrP°-PµBĤ™ CH) P·PSP°C‡PµPSPSCÍ AUC PrP»CÍ P·P°PiP°P»CHbPSPsPiPs PµP·PµC,PëPjC-P±Cr P·CHPµCÍC,P°P»Ps PīCHPëP±P»PëP·PSPs PI 4 CHP°P·Pë PI 1-PNë C,P° 14-PNë PrPµPSCb PīPsCHC-PIPSCÍPSPs P· C,P°PePëPj PīPsPeP°P·PSPëPePsPj Cr P·PrPsCHPµPIPëC... PrPsP±CHPµPIPsP»CHC†C-PI. PµP°C†C-C”PSC,P°Pj C-P· PīPµC‡C-PSPePsPIPsCH PSPµPrPsCÍC,P°C,PSC-CÍC,CH P»PµPiPePsPiPs CÍC,CrPīPµPSCÍ PePsCHPµPeC†C-CÍ PrPsP·Pë PSPµ PīPsC,CHC-P±PSP°. PhCÍPeC-P»CHPePë PµC„PµPeC,Pë PīC-PrPIPëC%oPµPSPsPiPs PIPjC-CÍC,Cr PµP·PµC,PëPjC-P±Cr Cr PīP°C†C-C”PSC,C-PI C-P· PīPµC‡C-PSPePsPIPsCH PSPµPrPsCÍC,P°C,PSC-CÍC,CH PīPsPjC-CHPSPsPiPs P°P±Ps C,CÍP¶PePsPiPs CÍC,CrPīPµPSCÍ (P±C-P»CHCëPµ 9 P±P°P»C-PI P·P° CëPeP°P»PsCH PŞP°PNëP»PrP°-PµBĤ™ CH) PSPµPIC-PrPsPjC-, PµP·PµC,PëPjC-P± PSPµ CHPµPePsPjPµPSPPrPsPIP°PSPëPNë PrP»CÍ P·P°CÍC,PsCÍCrPIP°PSPSCÍ C†C-PNë PeP°C,PµPiPsCHC-C— PīP°C†C-C”PSC,C-PI (PrPëPI. CHPµP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCrPIP°PSPSCÍB»).

PĤPëCHPµPePsPIP° PSPµPrPsCÍC,P°C,PSC-CÍC,CH

PµC-CÍP»CÍ PsPrPSPsCHP°P·PsPIPsPiPs PīCHPëPNëPsPjCr 10 PjPi PµP·PµC,PëPjC-P±Cr Cr PīP°C†C-C”PSC,C-PI C-P· C,CÍP¶PePsCH PSPëCHPµPePsPIPsCH PSPµPrPsCÍC,P°C,PSC-CÍC,CH (n = 8; PeP»C-CHPµPSCÍ PeCHPµP°C,PëPSC-PSCr ≤ 30 PjP»/C...PI/1,73 Pj²) CÍPµCHPµPrPSC” P·PSP°C‡PµPSPSCÍ AUC PrP»CÍ P·P°PiP°P»CHbPSPsPiPs PµP·PµC,PëPjC-P±Cr P·CHPµCÍC,P°P»Ps PīCHPëP±P»PëP·PSPs PI 1,5 CHP°P·P° PīPsCHC-PIPSCÍPSPs P· C,P°PePëPj PīPsPeP°P·PSPëPePsPj Cr P·PrPsCHPµPIPëC... PrPsP±CHPµPIPsP»CHC†C-PI (n = 9). PīPµPNë CHPµP·CrP»CHC,P°C, PSPµ PIPIP°P¶P°C”C,CHCÍCÍ PeP»C-PSC-C‡PSPs P·PSP°C‡CrC%oPëPj.B P”P»CÍ PīP°C†C-C”PSC,C-PI C-P· PīPsCHCrCëPµPSPSCÍPj C„CrPSPeC†C-C— PSPëCHPµPe PSPµPjP°C” PīPsC,CHPµP±Pë PI PePsCHPµPeC†C-C— PrPsP·Pë.

P’ PsPrPSPsPiPs PīP°C†C-C”PSC,P° PI C†CHbPsPjCr PrPsCÍP»C-PrP¶PµPSPSC- (CÍPePëPNë PjP°PI PSPëCHPµPePsPIPëPNë C,CHP°PSCÍPīP»P°PSC,P°C, C- PsC,CHPëPjCrPIP°PI PjCrP»CHC,PëC,PµCHP°PīC-CH, PI C,PsPjCr C‡PëCÍP»C- C†PëPeP»PsCÍPīPsCHPëPS) CHC-PIPµPSCb P·P°PiP°P»CHbPSPsPiPs PµP·PµC,PëPjC-P±Cr P±CrPI PIPëC%oPëPNë Cr 12 CHP°P·C-PI.

PŸC,P°C,CH

PµPsPSC†PµPSC,CHP°C†C-CÍ Cr PīP»P°P·PjC- PeCHPµPIC- P·P°PiP°P»CHbPSPsPiPs PµP·PµC,PëPjC-P±Cr C,CHPµC...Pë PIPëC%oP° (PīCHPëP±P»PëP·PSPs 20 %) Cr P¶C-PSPsPe,

PSC-P¶ Cŕ C‡PsP»PsPIC-PeC-PI. P—PSPëP¶PµPSPSC¶ C¶C-PIPC¶ PŦPŸ P>PµP¶P© C-
PïC¶PsC„C-P»CHß P±PµP·PïPµPePë PïC¶PëP±P»PëP·PSPs PsPrPSP°PePsPIC- PI
C‡PsP»PsPIC-PeC-PI C- P¶C-PSPsPe, C¶PeC- PïC¶PëPNëPjP°C¶C,CHß PµP·PµC,PëPjC-P±.
PŸPsPjCŕ PSPµPjP°C” PïPsC,C¶PµP±Pë PI PePsC¶PµPeC†C-C— PrPsP·Pë P·P°P»PµP¶PSPs PIC-Pr
CŦC,P°C,C-.

РЉР»С-РSC-С‡РSC- С...Р°С¶Р°РeС,РµС¶РëСŦС,РëРeРë.

РµРsРeР°Р·Р°РSPSC¶.

РµРµС¶РIPëPSPSP° PiC-PïPµС¶C...PsP»РµСŦС,РµС¶РëPSPµPjC-C¶

P·P·PµC,PëPjC-P± Cŕ PePsPjP±C-PSP°C†C-C— P· C-PSPiC-P±C-C,PsC¶PsPj C¶PµPrCŕPeC,P°P·Pë
PiC-PrC¶PsPeCŦPëPjPµC,PëP»PiP»CŕC,P°C¶PëP»-PePsPµPSP·PëPjCŕ Ph (P“РҖР”-РҖPsPh)
(CŦC,P°C,PëPS) PïPsPeP°P·P°PSPëPNë C¶Pe PrPsPïPsPjC-P¶PSP° C,РµС¶Р°PïC-C¶ PrPs
PrC-C”C,Pë PrP»C¶ PïP°C†C-C”PSC,C-PI P· PïPµС¶РIPëPSPSPsC¶
(PiPµC,РµС¶РPsP·PëPiPsC,PSPsC¶ CŦC-PjPµPNëPSPsC¶ C,P° PSPµCŦC-PjPµPNëPSPsC¶)
PiC-PïPµС¶C...PsP»РµСŦС,РµС¶РëPSPµPjC-C”C¶, C¶PeC%Ps C,РµС¶Р°PïC-C— C,C-P»CHßPePë
CŦC,P°C,PëPSPsPj PSPµPrPsCŦC,P°C,PSCHßPs.

РҖPsPSPsC,РµС¶Р°PïC-C¶ PµP·PµC,PëPjC-P±PsPj PïPsPeP°P·P°PSP° C¶Pe PrPsPïPsPjC-P¶PSP°
C,РµС¶Р°PïC-C¶ PrPs PrC-C”C,Pë PrP»C¶ PïP°C†C-C”PSC,C-PI P· PïPµС¶РIPëPSPSPsC¶
(PiPµC,РµС¶РPsP·PëPiPsC,PSPsC¶ CŦC-PjPµPNëPSPsC¶ C,P° PSPµCŦC-PjPµPNëPSPsC¶)
PiC-PïPµС¶C...PsP»РµСŦС,РµС¶РëPSPµPjC-C”C¶, PrP»C¶ C¶PePëC...
P·P°CŦC,PsCŦCŕPIP°PSPSC¶ CŦC,P°C,PëPSCŕ C” PSPµPrPsC†C-P»CHßPSPëPj P°P±Ps C-CŦPSCŕC”
PNëPsPiPs PSPµPïPµС¶РµPSPsCŦPëPjC-CŦC,CHß.

РµС¶РPsC„C-P»P°PeC,PëPeP° CŦРµС¶РC†PµPIPs-CŦC¿PrPëPSPSPëC... PïPsPrC-PNë

P·P·PµC,PëPjC-P± PïPsPeP°P·P°PSPëPNë PrP»C¶ P·PjPµPSC€PµPSPSC¶ C¶PëP·PëPeCŕ
CŦРµС¶РC†PµPIPs-CŦCŕPrPëPSPSPëC... PïPsPrC-PNë (PrPëPI. C¶PsP·PrC-P»
B«P°P°C¶PjP°PePsPrPëPSP°PjC-PeP°B») Cŕ PïP°C†C-C”PSC,C-PI P· C-C€PµPjC-C‡PSPsC¶
C...PIPsC¶PsP±PsC¶ CŦРµС¶РC†C¶ (P†PŦPŸ) C,P° PiPsCŦC,C¶PëPj PePsC¶PsPSP°C¶PSPëPj
CŦPëPSPŕC¶PsPjPsPj (P“РҖРŸ) PI P°PSP°PjPSPµP·C- PïC¶Pë PrPsPrP°PIP°PSPSC- PrPs
PïPsC,PsC‡PSPsC— C,РµС¶Р°PïC-C— CŦC,P°C,PëPSP°PjPë P°P±Ps P·P°CŦC,PsCŦCŕPIP°PSPSC-
PsPrPSPsC‡P°CŦPSPs P·C- CŦC,P°C,PëPSPsPj.

P”PsPjPsP·PëPiPsC,PSP° CŦC-PjPµPNëPSP°

PiC-PïPµС¶C...PsP»РµСŦС,РµС¶РëPSPµPjC-C¶ (P”PsPŸP”)

P·P·PµC,PëPjC-P± Cŕ PePsPjP±C-PSP°C†C-C— P·C- CŦC,P°C,PëPSPsPj PïPsPeP°P·P°PSPëPNë C¶Pe
PrPsPïPsPjC-P¶PSP° C,РµС¶Р°PïC-C¶ PrPs PrC-C”C,Pë PrP»C¶ PïP°C†C-C”PSC,C-PI C-P·
P“PsPŸP”. PµP°C†C-C”PSC,Pë PjPsP¶CŕC,CHß C,P°PePsP¶ PsC,C¶PëPjCŕPIP°C,Pë
PrPsPrP°C,PePsPIPµ P»C-PeCŕPIP°PSPSC¶ (PSP°PïC¶PëPeP»P°Pr P°C„РµС¶РµP· P>PµP¶P©).

P”PsPjPsP·PëPiPsC,PSP° CŦPëC,PsCŦC,РµС¶РPsP»РµPjC-C¶

(C„C-C,PsCŦC,РµС¶РPsP»РµPjC-C¶)

P·P·PµC,PëPjC-P± PïPsPeP°P·P°PSPëPNë C¶Pe PrPsPïPsPjC-P¶PSP° C,РµС¶Р°PïC-C¶ PrPs
PrC-C”C,Pë PrP»C¶ PïP°C†C-C”PSC,C-PI C-P· PiPsPjPsP·PëPiPsC,PSPsC¶ CŦC-PjPµPNëPSPsC¶

$$C^{\prime}P\ddot{e}C,PsC^{\prime}C,P_{\mu}C\bar{H}PsP\gg P_{\mu}P_jC-C^{\prime\prime}C\bar{H}.$$

PᵤCᵗPₛC,PëPïPₛPₑP°P·P°PSPSCᵗ.

$$\begin{aligned} &P^{\circ}C-PiP_{\mu}C\bar{H}C\ddagger C\acute{r}C,P\gg PePIC-C\acute{r}C,CH PrPs PrC-C\bar{H}C\ddagger PsC- C\bar{H}P_{\mu}C\ddagger PsPIP\ddot{e}PSP\ddot{e} P^{\circ}P\pm Ps PrPs \\ &P\pm C\acute{r}PrCH\bar{H}-C\bar{H}PePsC- P\cdot PrPsPiPsPjC-P\PSP\ddot{e}C... C\bar{H}P_{\mu}C\ddagger PsPIP\ddot{e}PS. \end{aligned}$$

$\text{P}\mu\text{C}\overline{\text{T}}\text{P}\overline{\text{e}}\text{C}\overline{\text{I}}\text{C}\text{r}\overline{\text{P}}\text{iC}\text{r}\text{C}, \text{PSC}\overline{\text{H}}\text{PsPjC}\text{r}\overline{\text{P}}\text{iC}\overline{\text{T}}\text{P}\overline{\text{e}}\text{PN}\overline{\text{e}}\text{PsPjC}-\text{P}\mu\text{P}\cdot\text{P}\mu\text{C}, \text{P}\overline{\text{e}}\text{PjC}-\text{P}\pm\text{C}\text{r}\text{P}\cdot\text{P}\pm\text{C}\text{r}\overline{\text{P}}\text{rC}\overline{\text{H}}-\text{C}\overline{\text{I}}\text{P}\text{eP}\overline{\text{e}}\text{PjC}\overline{\text{I}}\text{C}, \text{P}^{\circ}\text{C}, \text{P}\overline{\text{e}}\text{PSPsPjC}\overline{\text{I}}\text{P}\gg\text{C}-\text{Pr}\text{PsP}\cdot\text{PSP}^{\circ}\text{PN}\overline{\text{e}}\text{PsPjP}\overline{\text{e}}\text{C}, \text{P}\overline{\text{e}}\text{C}\overline{\text{I}}\text{C}\overline{\text{I}}\text{P}\cdot\text{C}-\text{PSC}\overline{\text{I}}\text{C}, \text{C}\overline{\text{T}}\text{C}\text{r}\overline{\text{P}}\text{eC}\overline{\text{I}}\text{C}-\text{C}''\text{C}\overline{\text{T}}\text{PrP}\gg\text{C}\overline{\text{I}}\text{P}\cdot\text{P}^{\circ}\text{C}\overline{\text{I}}\text{C}, \text{PsC}\overline{\text{I}}\text{C}\text{rPIP}^{\circ}\text{PSPSC}\overline{\text{I}}\text{P}\text{PrP}\gg\text{C}\overline{\text{I}}\text{P}\text{C}\overline{\text{I}}\text{C}\overline{\text{H}}\text{PsPiPs}\text{PePsPSPeC}\overline{\text{T}}\text{P}\mu\text{C}, \text{PSPsPiPsP}\gg\text{C}-\text{PeP}^{\circ}\text{C}\overline{\text{T}}\text{C}\text{r}\overline{\text{H}}\text{PePsPiPs}\text{P}\cdot\text{P}^{\circ}\text{C}\overline{\text{I}}\text{PsP}\pm\text{C}\text{r}.$

$P\ddot{Y}C\dot{r}PjC-C\dot{I}PSP^{\circ}C, P_{\mu}C\dot{H}P^{\circ}P\ddot{i}C-C\dot{I}P_{\mu}P\cdot P_{\mu}C, P\ddot{e}PjC-P\pm C\dot{r}P\cdot P\pm C\dot{r}PrCH-C\dot{I}PeP\ddot{e}Pj$
 $C\dot{I}C, P^{\circ}C, P\ddot{e}PSPsPjP\ddot{i}C\dot{H}PsC, P\ddot{e}P\ddot{i}PsPeP^{\circ}P\cdot P^{\circ}PSP^{\circ}C\dot{r}P\ddot{i}P_{\mu}C\dot{H}C-PsPrPIP^{\circ}P\ddot{i}C-C, PSPsC\dot{I}C, C-P^{\circ}P\pm Ps$
 $P\ddot{i}PsPrC\dot{r}PIP^{\circ}PSPSC\dot{I}P\ddot{i}C\dot{H}C\dot{r}PrPrCH.$

$P-P^{\circ}C\dot{I}C, PsC\dot{I}C\dot{r}PIP^{\circ}PSPSC\dot{I}I$ $P_{\mu}P \cdot P_{\mu}C, P\ddot{e}PjC-P\pm C\dot{r}$ PI $PePsPjP\pm C-PSP^{\circ}C\dot{I}C-C-$ $P \cdot$ $P\pm C\dot{r}PrCH-$
 $C\dot{I}I$ $PeP\ddot{e}Pj$ $C\dot{I}C, P^{\circ}C, P\ddot{e}PSPsPj$ $P\ddot{I}C\dot{I}PsC, P\ddot{e}P\dot{I}PsPeP^{\circ}P \cdot P^{\circ}PSPs$ $P\dot{I}P^{\circ}C\dot{I}C-C''PSC, P^{\circ}Pj$ $C-P \cdot$
 $P \cdot P^{\circ}C \dots PIPsC\dot{I}C\dot{I}PIP^{\circ}PSPSC\dot{I}I$ $PjP\ddot{e}$ $P\dot{I}P_{\mu}C\dot{I}C-PSPeP\ddot{e}$ $C\dot{r}$ $C\dot{I}C, P^{\circ}PrC-C-$ $P \cdot P^{\circ}PiPsC\dot{I}C, C\dot{I}P_{\mu}PSPSC\dot{I}I$
 $P^{\circ}P\pm Ps$ $PSP_{\mu}P \cdot B\dot{I}^{\text{TM}}$ $C\dot{I}C\dot{I}PsPIP^{\circ}PSP\ddot{e}PjP\ddot{e}$ $C, C\dot{I}P\ddot{e}PIP^{\circ}P \gg P\ddot{e}PjP\ddot{e}$ $P\ddot{I}C-PrPIP\ddot{e}C\%_{\mu}P_{\mu}PSPSC\dot{I}I$ $PjP\ddot{e}$
 $C\dot{I}C-PIPSC-PI$ $C\dot{I}P\ddot{e}C\dot{I}PsPIP^{\circ}C, PePsPIP\ddot{e}C \dots C, C\dot{I}P^{\circ}PSC\dot{I}P^{\circ}PjC-PSP^{\circ}P \cdot$.

$P^{\circ}P^{\circ}C^{\circ}P_jP_sP_rC-C\Pi P^{\circ}C-PSC\epsilon P\ddot{e}P_jP\ddot{e}P\gg C-P\epsilon^{\circ}C\grave{H}C\acute{I}C\grave{H}P_{\epsilon}P\ddot{e}P_jP\ddot{e}P^{\circ}P^{\circ}C\acute{I}P_sP_{\pm}P^{\circ}P_jP\ddot{e}C,P^{\circ}C-PSC\epsilon C-PIP\ddot{e}P_rP\ddot{e}PIP^{\circ}P^{\circ}C^{\circ}P_jP_sP_rC-PN_2.$

$P''PsPeP \gg C-PSC-C \nmid PSC - P \nmid PsC \nmid P \gg C - PrP \nmid P \mu PSPSC \nmid P \nmid PsPeP^{\circ} \cdot P^{\circ} P \gg P \ddot{e}, C\%Ps P \mu P \cdot P \mu C, P \ddot{e} P j C - P \pm$
 $PSP \mu C - PSP r C r P e C r C'' C,, P \mu C \nmid P j P \mu PSC, P \ddot{e} C \nmid P \ddot{e} C \nmid C, P \mu P j P \ddot{e} C \nmid P \ddot{e} C, PsC... C \nmid P \mu C P j C r P 450, C\%Ps$
 $P j P \mu C, P^{\circ} P \pm PsP \gg C - P \cdot C r C \nmid C, C \nmid P \nmid C \nmid P \mu P i P^{\circ} C \nmid P^{\circ} C,, P k P \mu C \nmid P i P s C \nmid C, P \mu C \nmid C - P i P^{\circ} P \gg PsC \nmid C \nmid$
 $P \nmid PsPrPSP \ddot{e} C... P e P \gg C - PSC - C \nmid PSPs P \cdot PSP^{\circ} C \nmid C r C\%P \ddot{e} C...$
 $C,, P^{\circ} C \nmid P j P^{\circ} P e P s P e C - PSP \mu C, P \ddot{e} C \nmid PSP \ddot{e} C... PIP \cdot P^{\circ} C'' P j P s P r C - P \nmid P j C - P \nmid P \mu P \cdot P \mu C, P \ddot{e} P j C - P \pm Ps P j C, P^{\circ}$
 $P i C \nmid P \mu P i P^{\circ} C \nmid P^{\circ} C, P^{\circ} P j P \ddot{e}, C\%Ps P j P \mu C, P^{\circ} P \pm PsP \gg C - P \cdot C r C \nmid C, C \nmid C \nmid C \nmid C,, P \mu C \nmid P j P \mu PSC, P^{\circ} P j P \ddot{e}$
 $C \nmid P \ddot{e} C \nmid C, P \mu P j P \ddot{e} C \nmid P \ddot{e} C, PsC... C \nmid P \mu C P j C r P 450 1A2, 2D6, 2C8, 2C9 C, P^{\circ} 3A4 P^{\circ} P \pm Ps N -$
 $P^{\circ} C \nmid P \mu C, P \ddot{e} P \gg C, C \nmid P^{\circ} PSC \nmid C,, P \mu C \nmid P^{\circ} P \cdot Ps C \nmid.$

PJ PeP»C-PSC-C†PSPëC... PrPsCíP»C-PrP¶PµPSPSCİC... P»C-PeP°CĤCíCĤĤPePsC—
PIP·P°C”PjPsPrC-C— PµP·PµC,PëPjC-P± PiCĤPë PePsPjP±C-PSPsPIP°PSC-PNë C,PµCĤP°PiC-C—
PSPµ PIPiP»PëPIP°PI PSP° C,,P°CĤPjP°PePsPeC-PSPµC,PëPeCí PrP°PiCíPsPSCí,
PrPµPeCíC,CĤPsPjPµC,PsCĤC,,P°PSCí, PrPëPiPsPeCíPëPSCí, PiPµCĤPsCĤP°P»CĤPSPëC...
PePsPSC,CĤP°C†PµPiC,PëPIC-PI (PµC,PëPSC-P»PµCíC,CĤP°PrC-PsP»Cí C,P°
P»PµPIPsPSPsCĤPiPµCíC,CĤPµP»Cí), PiP»C-PiC-P·PëPrCí, C,PsP»P±CíC,P°PjC-PrCí P°P±Ps
PjC-PrP°P·PsP»P°PSCí. PiPëPjPµC,PëPrPëPS PiCĤPë PePsPjP±C-PSPsPIP°PSC-PNë
C,PµCĤP°PiC-C— P· PµP·PµC,PëPjC-P±PsPj PSPµ PIPiP»PëPIP°PI PSP°
P±C-PsPrPsCíC,CíPiPSC-CíC,CĤ PµP·PµC,PëPjC-P±Cí.

$P\bar{h}PSC, P^{\circ}C\uparrow P\bar{e}PrP\bar{e}$. $PhPrPSPsC\uparrow P^{\circ}C\uparrow PSP\bar{e}PN_{\bar{e}}$ $P\bar{i}C\bar{h}P\bar{e}PN_{\bar{e}}PsPj$ $P^{\circ}PSC, P^{\circ}C\uparrow P\bar{e}PrC-PI$
 $P\bar{i}C\bar{h}P\bar{e}P\cdot PIPsPrP\bar{e}C, CH\bar{b}$ $PrPs$ $P\cdot PSP\bar{e}P\uparrow P_{\mu}PSPSC\downarrow$ $C\bar{f}C, C\bar{r}P\bar{i}P_{\mu}PSC\downarrow$
 $P^{\circ}P\pm C\bar{f}PsC\bar{h}P\pm C\uparrow C-C-$ $P_{\mu}P\cdot P_{\mu}C, P\bar{e}PjC-P\pm C\bar{r}$, $P^{\circ}P\gg P_{\mu}$ PSP_{μ} $PIP\bar{i}P\gg P\bar{e}PIP^{\circ}C''$ PSP°
 $PN_{\bar{e}}PsPiPs$ $P\pm C-PsPrPsC\bar{f}C, C\bar{r}P\bar{i}PSC-C\bar{f}C, CH\bar{b}$. $P\bar{y}P^{\circ}PeP_{\mu}$ $P\cdot PSP\bar{e}P\uparrow P_{\mu}PSPSC\downarrow$

СГГ,СГГПіРμPSCГ P°P±СГPsСГP±СГC— PSPμ PIP°P¶P°C”C,СГСГГГ
PeP»C—PSC—C±PSPs P·PSP°C±СГC%PëPj.

ПГPsP»PμСГГ,РëСГP°PjC—PS. PμСГPë PePsPjP±C—PSPsPIP°PSPsPjСГ
P·P°СГГ,PsСГГГРIP°PSPSC— P· C...PsP»PμСГГ,РëСГP°PjC—PSPsPj СГРμСГPμPrPSC”
P·PSP°C±PμPSPSCГ ПiP»PsC%C— ПiC—Pr PeСГPëPIPsСГ
B«PePsPSCГPμPSC,СГP°CГC—CГ—C±P°СГB» (AUC) СГГГРPjP°СГPSPsPiPs PμP·PμC,РëPjC—P±СГ
(PμP·PμC,РëPjC—P± C,P° PμP·PμC,РëPjC—P±—PiP»СГPeСГСГPSPSC—Pr)
P·PjPμPSC€СГРIP°P»PsСГГГ ПiСГPëP±P»PëP·PSPs PSP° 55 %. PμСГPë PrPsPrP°PIP°PSPSC—
PμP·PμC,РëPjC—P±СГ PrPs C...PsP»PμСГГ,РëСГP°PjC—PSCГ ПiPsСГГ,СГРiPsPIPμ
P·PSPëP¶PμPSPSCГ C...PsP»PμСГГ,PμСГPëPSCГ P»C—PiPsPiСГPsC,PμC—PSC—PI
PSPëP·СГPePsC— C%C—P»СГPSPsСГГ,C— (ПГРҮ P»PμP©) PjPsP¶Pμ
СГРiPsPIC—P»СГPSPëC,РëСГГГ. PαC—P±СГP°C,Рë. ПiPeC%Ps ПiP°CГC—C”PSC,Рë
PsC,СГPëPjСГСГ,СГ C,,PμPSPsC,,C—P±СГP°C, C,P° PμP·PμC,РëPjC—P±, P»C—PeP°СГC—
PiPsPIPëPSPSC— P±СГC,Рë ПiСГPsC—PSC,,PsСГPjPsPIP°PSC— ПiСГPs PjPsP¶P»PëPIPëP№
СГPëP·PëPe PIPëPSPëPePSPμPSPSCГ C...PsP»PμP»C—C,C—P°P·СГ C—
P·P°C...PIPsСГСГPIP°PSPSCГ P¶PsPIC±PSPsPiPs PjC—C...СГСГP°. PμСГPë
ПiC—PrPsP·СГC— PSP° C...PsP»PμP»C—C,C—P°P· СГ ПiP°CГC—C”PSC,P°, CГPePëP№
PsC,СГPëPjСГC” PμP·PμC,РëPjC—P± C,P° C,,PμPSPsC,,C—P±СГP°C,, ПiPsPeP°P·P°PSC—
PsP±СГГ,PμP¶PμPSPSCГ P¶PsPIC±PSPsPiPs PjC—C...СГСГP°, P° C,P°PeСГ
C,PμСГP°PiC—СГ СГP»C—Pr ПiСГPëPiPëPSPëC,Рë (PrPëPi. СГPsP·PrC—P»
B«PμPsP±C—C±PSC— СГPμP°PeСГC—C—B»).

РҮСГРiСГC,PSC” P·P°СГГ,PsСГГГРIP°PSPSCГ C,,PμPSPsC,,C—P±СГP°C,СГ P°P±Ps
PiPμPjC,,C—P±СГPsP·PëP»СГ PSPμP·PSP°C±PSPëPj C±PëPSPsPj ПiC—PrPIPëC%PëP»Ps
P·P°PiP°P»СГPSCГ PePsPSCГPμPSC,СГP°CГC—СГ PμP·PμC,РëPjC—P±СГ (PiСГPëP±P»PëP·PSPs СГ
1,5 C— 1,7 СГP°P·P° PIC—PrPiPsPIC—PrPSPs).

PhPrPSPsC±P°СГPSPμ P·P°СГГ,PsСГГГРIP°PSPSCГ PμP·PμC,РëPjC—P±СГ P· C—PSC€PëPjPë
C,,C—P±СГP°C,P°PjPë PSPμ PIPëPIC±P°P»Pë.

PαC—P±СГP°C,Рë PjPsP¶СГC,СГ ПiC—PrPIPëC%СГРIP°C,Рë PIPëPrC—P»PμPSPSCГ
C...PsP»PμСГГ,PμСГPëPSCГ PI P¶PsPIC±, C%Ps ПiСГPëP·PIPsPrPëC,СГ PrPs
C...PsP»PμP»C—C,C—P°P·СГ. PJ PrPsСГP»C—PrP¶PμPSPSCГC... PSP° C,PIP°СГPëPSP°C...
PμP·PμC,РëPjC—P± C—PSPsPrC— ПiC—PrPIPëC%СГРIP°PI СГC—PIPμPSCСГ
C...PsP»PμСГГ,PμСГPëPSCГ PI P¶PsPIC±C—, P°P»Pμ PSPμ СГ PICГГ—C... PIPëPrC—PI.
P»C—C,PsPiPμPSPSPëP№ СГPëP·PëPe, PiPsPiБГ™ CГP·P°PSPëP№ P·
C,PμСГP°PiPμPIC,РëC±PSPëPj P·P°СГГ,PsСГГГРIP°PSPSCГPj PμP·PμC,РëPjC—P±СГ, PSPμ
PjPsP¶PSP° PIPëPeP»СГC±PëC,Рë.

РҮC,P°C,РëPSPë. P—PsPrPSPsC— PeP»C—PSC—C±PSPs P·PSP°C±СГC%PsC—
C,,P°СГPjP°PePsPeC—PSPμC,РëC±PSPsC— PIP·P°C”PjPsPrC—C— PSPμ P±СГP»Ps
PIPëCГIP»PμPSPs ПiСГPë PePsPjP±C—PSPsPIP°PSPsPjСГ ПiСГPëP№PsPjC—
PμP·PμC,РëPjC—P±СГ P· P°C,PsСГPIP°СГГ,P°C,РëPSPsPj, СГРëPjPIP°СГГ,P°C,РëPSPsPj,
ПiСГP°PIP°СГГ,P°C,РëPSPsPj, P»PsPIP°СГГ,P°C,РëPSPsPj, C,,P»СГРIP°СГГ,P°C,РëPSPsPj
P°P±Ps СГPsP·СГРIP°СГГ,P°C,РëPSPsPj.

РiPëPeP»PsСГРiPsСГPëPS. PJ C...PsPrC— PrPsСГР»C—PrP¶PμPSPSCГ P· СГC±P°СГГ,СГ 8
ПiP°CГC—C”PSC,C—PI ПiC—СГР»CГ C,СГP°PSCГРiP»P°PSC,P°CГC— PSPëСГPePë P·

PeP»C-CT_μPμPSCÍPsPj PeCT_μPμP°C,PēPSC-PSCÍ > 50 PjP»/C...PI PīCT_μPē
 CÍC,P°P±C-P»CH_μPSC-PNē PrPsP·C- C†PēPeP»PsCÍPīPsCT_μPēPSCÍ 1 PrPsP·P°
 PμP·PμC,PēPjC-P±CÍ 10 PjPi PīCT_μPēP·PIPsPrPēC,CH PrPs PīC-PrPIPēC%PμPSPSCÍ CÍ 3,4
 CT_μP°P·P° (PrC-P°PīP°P·PsPS CÍC,P°PSPsPIPēC,CH PIC-Pr 2,3 PrPs 7,9 CT_μP°P·P°)
 CÍPμCT_μPμPrPSC_μPsC— AUC P·P°PīP°P»CH_μPSPsPiPs PμP·PμC,PēPjC-P±CÍ
 PīPsCT_μC-PIPSCÍPSPs P· PIC-PrPīPsPIC-PrPSPēPj PīPsPeP°P·PSPēPePsPj CÍ
 PePsPSC,CT_μPsP»CH_μPSC-PNē PīPsPīCÍP»CÍC†C-C— P·PrPsCT_μPsPIPēC...
 PīP°C†C-C”PSC,C-PI, CÍPeC- PsC,CT_μPēPjCÍPIP°P»Pē C,C-P»CH_μPePē PμP·PμC,PēPjC-P±,
 PI C-PSCēPsPjCÍ PrPsCÍP»C-PrP¶PμPSPSC- (n = 17). P©Pμ PI PsPrPSPsPjCÍ
 PrPsCÍP»C-PrP¶PμPSPSC- CÍ PīP°C†C-C”PSC,P° P· C,CT_μP°PSCÍPīP»P°PSC,PsPIP°PSPsC_μ
 PSPēCT_μPePsC_μ C- C,CÍP¶PePsC_μ PSPēCT_μPePsPIPsC_μ PSPμPrPsCÍC,P°C,PSC-CÍC,C_μ,
 CÍPePēPNē PsC,CT_μPēPjCÍPIP°PI C†PēPeP»PsCÍPīPsCT_μPēPS C,P° P±P°PīP°C,Ps C-PSCēPēC...
 P»C-PeP°CT_μCÍCH_μPePēC... P·P°CÍPsP±C-PI, P·P°C,,C-PeCÍPsPIP°PSPs 12-CT_μP°P·PsPIPμ
 P·P±C-P»CH_μCēPμPSPSCÍ PμPeCÍPīPsP·PēC†C-C— P·P°PīP°P»CH_μPSPsPiPs PμP·PμC,PēPjC-P±CÍ
 PīPsCT_μC-PIPSCÍPSPs P· PePsPSC,CT_μPsP»CH_μPSPēPjPē PīP°C†C-C”PSC,P°PjPē, CÍPeC-
 PsC,CT_μPēPjCÍPIP°P»Pē C,C-P»CH_μPePē PμP·PμC,PēPjC-P±. PμC-Pr C†P°CÍ
 PīPμCT_μPμC...CT_μPμCÍPSPsPiPs PrPsCÍP»C-PrP¶PμPSPSCÍ P· PrPIPsPjP° PīPμCT_μC-PsPrP°PjPē P·
 CÍC†P°CÍC,C_μ 12 P·PrPsCT_μPsPIPēC... PrPsP±CT_μPsPIPsP»CH_μC†C-PI C%PsPrPμPSPSPμ
 PIPμPrPμPSPSCÍ 20 PjPi PμP·PμC,PēPjC-P±CÍ PīCT_μPsC,CÍPiPsPj 8 PrPSC-PI P· PsPrPSC-C”C_μ
 PrPsP·PsC_μ 100 PjPi C†PēPeP»PsCÍPīPsCT_μPēPSCÍ PSP°
 7-PNē PrPμPSC_μ PīCT_μPēP·PIPμP»Ps PrPs P·P±C-P»CH_μCēPμPSPSCÍ AUC
 C†PēPeP»PsCÍPīPsCT_μPēPSCÍ PI CÍPμCT_μPμPrPSC_μPsPjCÍ PSP° 15 % (PrC-P°PīP°P·PsPS PIC-Pr
 P·PjPμPSCēPμPSPSCÍ PSP° 10 % PrPs P·P±C-P»CH_μCēPμPSPSCÍ PSP° 51 %)
 PīPsCT_μC-PIPSCÍPSPs P· PIC-PrPīPsPIC-PrPSPēPj PīPsPeP°P·PSPēPePsPj PīCT_μPē
 PIPμPrPμPSPSC- PsPrPSC-C”C— PrPsP·Pē 100 PjPi C†PēPeP»PsCÍPīPsCT_μPēPSCÍ.
 P_μPsPSC,CT_μPsP»CH_μPsPIP°PSPμ PrPsCÍP»C-PrP¶PμPSPSCÍ PIPīP»PēPICÍ
 PsPrPSPsC†P°CÍPSPsPiPs PīCT_μPēPNēPsPjCÍ PμP·PμC,PēPjC-P±CÍ PSP° PμPeCÍPīPsP·PēC†C-C_μ
 C†PēPeP»PsCÍPīPsCT_μPēPSCÍ CÍ PīP°C†C-C”PSC,C-PI C-P·
 C,CT_μP°PSCÍPīP»P°PSC,PsPIP°PSPsC_μ PSPēCT_μPePsC_μ PSPμ PīCT_μPsPIPsPrPēP»Pē. PŸP»C-Pr P·
 PsP±PμCT_μPμP¶PSC-CÍC,C_μ CT_μPsP·PīPsC†PēPSP°C,Pē P»C-PeCÍPIP°PSPSCÍ
 PμP·PμC,PēPjC-P±PsPj PīP°C†C-C”PSC,P°PjPē, CÍPeC- PīCT_μPēPNēPjP°C_μC,CH
 C†PēPeP»PsCÍPīPsCT_μPēPS. Pj PīP°C†C-C”PSC,C-PI, CÍPeC- PīCT_μPēPNēPjP°C_μC,CH
 PμP·PμC,PēPjC-P± C,P° C†PēPeP»PsCÍPīPsCT_μPēPS, CÍP»C-Pr PīPμCT_μPμPIC-CT_μCÍC,Pē
 PePsPSC†PμPSC,CT_μP°C†C-C— C†PēPeP»PsCÍPīPsCT_μPēPSCÍ.

P_μhPSC,PēPePsP°PiC¿P»CÍPSC,Pē. P_μhPrPSPsC†P°CÍPSPμ P·P°CÍC,PsCÍCÍPIP°PSPSCÍ
 PμP·PμC,PēPjC-P±CÍ (10 PjPi 1 CT_μP°P· PSP° PrPsP±CÍ) PSPμ PjP°P»Ps P·PSP°C†PSPsPiPs
 PIPīP»PēPICÍ PSP° P±C-PsPrPsCÍC,CÍPīPSC-CÍC,CH PIP°CT_μC,,P°CT_μPēPSCÍ C,P°
 PīCT_μPsC,CT_μPsPjP±C-PSPsPIPēPNē C†P°CÍ CÍ C...PsPrC- PrPsCÍP»C-PrP¶PμPSPSCÍ P·
 CÍC†P°CÍC,C_μ
 12 P·PrPsCT_μPsPIPēC... PrPsCT_μPsCÍP»PēC... C†PsP»PsPIC-PeC-PI. P_μhPrPSP°Pe P±CÍP»Pē
 PīC-CÍP»CÍCT_μPμC”CÍC,CT_μP°C†C-PNēPSC- PīPsPIC-PrPsPjP»PμPSPSCÍ PīCT_μPs
 P·P±C-P»CH_μCēPμPSPSCÍ PjC-P¶PSP°CT_μPsPrPSPsPiPs
 PSPsCT_μPjP°P»C-P·PsPIP°PSPsPiPs PIC-PrPSPsCēPμPSPSCÍ (P_μhP_μK’P’) CÍ
 PīP°C†C-C”PSC,C-PI, CÍPePēPj PμP·PμC,PēPjC-P± PrPsPrP°PIP°P»Pē PrPs
 PIP°CT_μC,,P°CT_μPēPSCÍ P°P±Ps C,,P»CÍC—PSPrC-PsPSCÍ. PīPeC%Ps PμP·PμC,PēPjC-P±
 P·P°CÍC,PsCÍPsPICÍPIP°C,Pē PSP° C,P»C- PīCT_μPēPNēPsPjCÍ PIP°CT_μC,,P°CT_μPēPSCÍ,
 C-PSCēPsPiPs PeCÍPjP°CT_μPēPSPsPIPsPiPs P°PSC,PēPePsP°PiCÍP»CÍPSC,CÍ P°P±Ps

C,,P»CfC—PSPrC—PsPSCf, CfP»C—Pr PSP°P»PμP¶PSPëPj C‡PëPSPsPj PïPμC¶PμPIC—C¶C¶C,Pë P¶P¶P'.

P''C—C,Pë. P''PsCfP»C—PrP¶PμPSPSC¶ PIP·P°C''PjPsPrC—C— PïC¶PsPIPsPrPëP»PëCfC¶ Cf PrPsC¶PsCfP»PëC....

P¶CfPsP±P»PëPIPsCfC,C- P·P°CfC,PsCfC¿PIP°PSPSC¶.

PμC¶Pë CfCfPïCfC,PSCHbPsPjCf PïC¶PëPNëPsPjC— PμP·PμC,PëPjC—P±Cf P· P±CfPrCHb—C¶PePëPj CfC,P°C,PëPSPsPj CfP»C—Pr PsP·PSP°PNëPsPjPëC,PëCfC¶ P· C—PSCfC,C¶CfPeC†C—C''C¶ PrP»C¶ P·P°CfC,PsCfCfPIP°PSPSC¶ PrP»C¶ C†CHbPsPiPs PePsPSPeC¶PμC,PSPsPiPs P»C—PeP°C¶CfCHbPePsPiPs P·P°CfPsP±Cf.

PαPμC¶PjPμPSC,Pë PïPμC‡C—PSPePë

Pj PePsPSC,C¶PsP»CHbPsPIP°PSPëC... PrPsCfP»C—PrP¶PμPSPSC¶C... CfCfPïCfC,PSCHbPsC— C,PμC¶P°PïC—C— Cf PïP°C†C—C''PSC,C—PI, C¶PeC— PsC,C¶PëPjCfC¶C,CHb PμP·PμC,PëPjC—P± P·C— CfC,P°C,PëPSP°PjPë, CfPïPsCfC,PμC¶C—PiP°P»PëCfC¶ PïPsCfP»C—PrPsPIPsC— PïC—PrPIPëC%PμPSPSC¶ C¶C—PIPsC¶ C,C¶P°PSCfP°PjC—PSP°P· (Cf 3 P°P±Ps P±C—P»CHbC€Pμ C¶P°P·C—PI PIPëC%Pμ P·P° PIPμC¶C...PSC¶ PjPμP¶Cf PSPsC¶PjPë [P'P¶P¶]). PμC¶Pë PïC¶PëPNëPsPjC— PePsPjP±C—PSP°C†C—C— PμP·PμC,PëPjC—P±Cf P·C— CfC,P°C,PëPSPsPj CfP»C—Pr PïC¶PsPIPsPrPëC,Pë C,,CfPSPeC†C—PsPSP°P»CHbPSC— PïPμC‡C—PSPePsPIC— PïC¶PsP±Pë PSP° PïPsC‡P°C,PeCf C,PμC¶P°PïC—C— C,P° P·PiC—PrPSPs P· C¶PμPePsPjPμPSPrP°C†C—C¶PjPë CfC,PsCfPsPIPsPSPs CfC,P°C,PëPSCf.

Pj PïPsP»C—PïC€PμPSPsPjCf CfPePsC¶PsC‡PμPSPSC— C¶PμP·CfP»CHbC,P°C,C—PI: PjC—P¶PSP°C¶PsPrPSPμ PrPsCfP»C—PrP¶PμPSPSC¶ PμC,,PμPeC,PëPIPsPSPsCfC,C— P'C—C,PsC¶C—PSCf (IMPROVE-IT), 18144 PïP°C†C—C''PSC,Pë P· C—C€PμPjC—C‡PSPsC¶ C...PIPsC¶PsP±PsC¶ CfPμC¶C†C¶C¶ C,P° PIPëPïP°PrPeP°PjPë P''P¶P¶ PI P°PSP°PjPSPμP·C— P±CfP»Pë C¶P°PSPrPsPjC—P·PsPIP°PSC— PrP»C¶ PïC¶PëPNëPsPjCf PμP·PμC,PëPjC—P±Cf/CfPëPjPIP°CfC,P°C,PëPSCf 10/40 PjPi C%PsPrPμPSPSPs (n = 9067) P°P±Ps CfPëPjPIP°CfC,P°C,PëPSCf 40 PjPi C%PsPrPμPSPSPs (n = 9077). PμC¶PsC,C¶PiPsPj CfPμC¶PμPrPSCHbPsPiPs PïPμC¶C—PsPrCf CfPïPsCfC,PμC¶PμP¶PμPSPSC¶ 6 C¶PsPeC—PI C‡P°CfC,PsC,P° PïPsCfP»C—PrPsPIPsPSPsPiPs PïC—PrPIPëC%PμPSPSC¶ C,C¶P°PSCfP°PjC—PSP°P· (Cf 3 P°P±Ps P±C—P»CHbC€Pμ C¶P°P·C—PI PIPëC%Pμ P·P° P'P¶P¶) CfC,P°PSPsPIPëP»P° 2,5 % PrP»C¶ PμP·PμC,PëPjC—P±Cf/CfPëPjPIP°CfC,P°C,PëPSCf C,P° 2,3 % PrP»C¶ CfPëPjPIP°CfC,P°C,PëPSCf.

Pj PePsPSC,C¶PsP»CHbPsPIP°PSPsPjCf PeP»C—PSC—C‡PSPsPjCf PrPsCfP»C—PrP¶PμPSPSC—, Cf C¶PePsPjCf PïPsPSP°Pr 9000 PïP°C†C—C''PSC,C—PI P· C...C¶PsPSC—C‡PSPëPj P·P°C...PIPsC¶CHbPIP°PSPSC¶Pj PSPëC¶PsPe P±CfP»Pë C¶P°PSPrPsPjC—P·PsPIP°PSC— PrP»C¶ PïC¶PëPNëPsPjCf PμP·PμC,PëPjC—P±Cf 10 PjPi Cf PePsPjP±C—PSP°C†C—C— C—P· CfPëPjPIP°CfC,P°C,PëPSPsPj 20 PjPi C%PsPrPμPSPSPs (n = 4650) P°P±Ps PïP»P°C†PμP±Ps (n = 4620), (CfPμC¶PμPrPSC—PNë PïPμC¶C—PsPr CfPïPsCfC,PμC¶PμP¶PμPSPSC¶ 4,9 C¶PsPeCf), C‡P°CfC,PsC,P° PïPsCfP»C—PrPsPIPsPSPsPiPs PïC—PrPIPëC%PμPSPSC¶ C,C¶P°PSCfP°PjC—PSP°P· (Cf 3 P°P±Ps P±C—P»CHbC€Pμ C¶P°P·C—PI PIPëC%Pμ P·P° P'P¶P¶) CfC,P°PSPsPIPëP»P° 0,7 % PrP»C¶ PμP·PμC,PëPjC—P±Cf PI PePsPjP±C—PSP°C†C—C— P·

PJ PrPsCfP»C-PrP¶PµPSPSC- IMPROVE-IT 18144 PiP°C†C-C"PSC,Pë P· C-C¶PµPjC-C†PSPsC¶
C...PIPsC¶PsP±PsC¶ C†PµC¶C†C¶ C,P° PIPëPiP°PrPeP°PjPë P"¶P¶P¶ PI P°PSP°PjPSPµP·C-
P±C†P»Pë C¶P°PSPrPsPjC-P·PsPIP°PSC- PrP»C¶ PiC¶PëPNëPsPjC†
PµP·PµC,PëPjC-P±C†/C†PëPjPIP°C†C,P°C,PëPSC† 10/40 PjPi C°PsPrPµPSPSPs
(n = 9067) P°P±Ps C†PëPjPIP°C†C,P°C,PëPSC† 40 PjPi C°PsPrPµPSPSPs (n = 9077).
PµC¶PsC,C¶PiPsPj C†PµC¶PµPrPSC¶PsPiPs PiPµC¶C-PsPrC† C†PiPsC†C,PµC¶PµP¶PµPSPSC¶ 6
C¶PsPeC-PI C†P°C†C,PsC,P° PjC-PsPiP°C,C-C— C†C,P°PSPsPIPëP»P° 0,2 % PrP»C¶
PµP·PµC,PëPjC-P±C†/C†PëPjPIP°C†C,P°C,PëPSC† C,P°
0,1 % PrP»C¶ C†PëPjPIP°C†C,P°C,PëPSC†, PrPµ PjC-PsPiP°C,C-C¶ PIPëP·PSP°C†P°P»P°C†C¶
C¶Pe PjB¶™ C¶P·PsPIP° C†P»P°P±PeC-C†C,Ch P°P±Ps P±C-P»Ch PSPµP·C¶PsP·C†PjC-P»PsC—
PµC,C-PsP»PsPiC-C— P· C¶C-PIPSPµPj PeC¶PµP°C,PëPSPeC-PSP°P·Pë PI C†PëC¶PsPIP°C,C†C-
PeC¶PsPIC- C† 10 P°P±Ps P±C-P»ChC¶Pµ C¶P°P·C-PI PIPëC°Pµ P·P° P'¶P¶ P°P±Ps P·
PrPIPsPjP° PiPsC†P»C-PrPsPIPSPëPjPë C¶PµP·C†P»ChC,P°C,P°PjPë
PeC¶PµP°C,PëPSPeC-PSP°P·Pë C† 5 P°P±Ps P±C-P»ChC¶Pµ C¶P°P·C-PI C- C† 10 C¶P°P·C-PI
PjPµPSC¶Pµ P·P° P'¶P¶. P¶P°C†C,PsC,P° C¶P°P±PrPsPjC-PsP»C-P·C† C†C,P°PSPsPIPëP»P° 0,1
% PrP»C¶ PµP·PµC,PëPjC-P±C†/C†PëPjPIP°C†C,P°C,PëPSC† C,P° 0,2 % PrP»C¶
C†PëPjPIP°C†C,P°C,PëPSC†, PrPµ C¶P°P±PrPsPjC-PsP»C-P· PIPëP·PSP°C†P°PIC†C¶ C¶Pe
PjB¶™ C¶P·PsPIP° C†P»P°P±PeC-C†C,Ch P°P±Ps P±C-P»Ch PSPµP·C¶PsP·C†PjC-P»PsC—
PµC,C-PsP»PsPiC-C— P· C¶C-PIPSPµPj PeC¶PµP°C,PëPSPeC-PSP°P·Pë PI C†PëC¶PsPIP°C,C†C-
PeC¶PsPIC- C† 10 P°P±Ps P±C-P»ChC¶Pµ C¶P°P·C-PI PIPëC°Pµ P·P° P'¶P¶ P·
PsP·PSP°PeP°PjPë PiPsC¶PePsPrP¶PµPSPSC¶ PSPëC¶PsPe, C† 5 P°P±Ps P±C-P»ChC¶Pµ
C¶P°P·C-PI PIPëC°Pµ C- C† 10 C¶P°P·C-PI PjPµPSC¶Pµ P·P° P'¶P¶ PrPIC-C†C-
PiPsC†PiC-P»Ch P· PsP·PSP°PeP°PjPë PiPsC¶PePsPrP¶PµPSPSC¶ PSPëC¶PsPe P°P±Ps
C¶C-PIPSPµPj PeC¶PµP°C,PëPSPeC-PSP°P·Pë ≥ 10000 P¶P¶/P» P±PµP· PsP·PSP°Pe

PiPsC€PePsPrP¶PµPSPSC¶ PSpëC¶PsPe.

PJ PeP»C-PSC-C¶PSPsPjCr PrPsC¶P»C-PrP¶PµPSPSC-, Cr C¶PePsPjCr PiPsPSP°Pr 9000
PiP°C†C-C"PS C, C-PI P· C...C¶PsPSC-C¶PSPëPj P·P°C...PIPsC¶C¶PIP°PSPSC¶Pj PSpëC¶PsPe
P±CrP»Pë C¶P°PSPPrPsPjC-P·PsPIP°PSC- PrP»C¶ PiC¶PëPNëPsPjCr PµP·PµC, PëPjC-P±Cr 10 PjPi
PI PePsPjP±C-PSP°C†C-C— C-P· C¶PëPjPIP°C¶C, P°C, PëPSPsPj 20 PjPi C°PsPrPµPSPSPs (n =
4650) P°P±Ps PiP»P°C†PµP±Ps (n = 4620), (C¶PµC¶PµPrPSC-PNë PiPµC¶C-PsPr
C¶PiPsC¶C, PµC¶PµP¶PµPSPSC¶ 4,9 C¶PsPeCr), C¶P°C¶C, PsC, P° PjC-PsPiP°C, C-C—/
C¶P°P±PrPsPjC-PsP»C-P·Cr C¶C, P°PSPsPIPëP»P° 0,2 % PrP»C¶ PµP·PµC, PëPjC-P±Cr PI
PePsPjP±C-PSP°C†C-C— P· C¶PëPjPIP°C¶C, P°C, PëPSPsPj C- 0,1 % PrP»C¶ PiP»P°C†PµP±Ps.

PµPµC¶C-PSPePsPIP° PSPµPrPsC¶C, P°C, PSC-C¶C, CH

P¶C¶PeC-P»CHPePë PµC,, PµPeC, Pë PiC-PrPIPëC°PµPSPsPiPs PIPjC-C¶C, Cr
PµP·PµC, PëPjC-P±Cr Cr PiP°C†C-C"PS C, C-PI C-P· PiPµC¶C-PSPePsIPsC¶
PSPµPrPsC¶C, P°C, PSC-C¶C, C¶ PiPsPjC-C¶PSPsPiPs C, P° C, C¶P¶PePsPiPs C¶C, CrPiPµPSC¶
PSPµPIC-PrPsPjC-, PµP·PµC, PëPjC-P± PSPµ C¶PµPePsPjPµPSPPrPsPIP°PSPëPNë PrP»C¶
P·P°C¶C, PsC¶CrPIP°PSPSC¶ C†C-PNë PeP°C, PµPiPsC¶C-C— PiP°C†C-C"PS C, C-PI.

P" C-C, Pë

P'C-PrPsPjPs, C°Ps PµC,, PµPeC, PëPIPSC-C¶C, CH C, P° P±PµP·PiPµPeP° PµP·PµC, PëPjC-P±Cr Cr
PiP°C†C-C"PS C, C-PI PIC-PePsPj PIC-Pr 6 PrPs 10 C¶PsPeC-PI C-P·
PiPµC, PµC¶PsP·PëPiPsC, PSPsC¶ C¶C-PjPµPNëPSPsC¶ P°P±Ps PSPµC¶C-PjPµPNëPSPsC¶
PiC-PiPµC¶C...PsP»PµC¶C, PµC¶PëPSPµPjC-C" C¶ PsC†C-PSC¶PIP°P»Pë Cr PiP»P°C†PµP±Ps-
PePsPSC, C¶PsP»CHPsPIP°PSPsPjCr PeP»C-PSC-C¶PSPsPjCr PrPsC¶P»C-PrP¶PµPSPSC-
PiC¶PsC, C¶PiPsPj 12 C, PëP¶PSC-PI. P'PiP»PëPi PµP·PµC, PëPjC-P±Cr PiC¶PsC, C¶PiPsPj
PiPµC¶C-PsPrCr P»C-PeCrPIP°PSPSC¶ P±C-P»CHC€Pµ 12 C, PëP¶PSC-PI Cr C†C-PNë
PIC-PePsPIC-PNë PiC¶CrPiC- PSPµ PIPëPIC¶P°P»Pë.

P'PiP»PëPi PµP·PµC, PëPjC-P±Cr PSPµ PIPëPIC¶P°P»Pë Cr PiP°C†C-C"PS C, C-PI PIC-PePsPj PrPs 6
C¶PsPeC-PI.

P'C-PrPsPjPs, C°Ps PµC,, PµPeC, PëPIPSC-C¶C, CH C, P° P±PµP·PiPµPeP° PµP·PµC, PëPjC-P±Cr,
C°Ps PiC¶PëP·PSP°C¶P°P»Pë Cr PePsPjP±C-PSP°C†C-C— C-P· C¶PëPjPIP°C¶C, P°C, PëPSPsPj
PiP°C†C-C"PS C, P°Pj PIC-PePsPj PIC-Pr 10 PrPs 17 C¶PsPeC-PI C-P·
PiPµC, PµC¶PsP·PëPiPsC, PSPsC¶ C¶C-PjPµPNëPSPsC¶
PiC-PiPµC¶C...PsP»PµC¶C, PµC¶PëPSPµPjC-C" C¶, PsC†C-PSC¶PIP°P»PëC¶C¶ PI
PePsPSC, C¶PsP»CHPsPIP°PSPsPjCr PeP»C-PSC-C¶PSPsPjCr PrPsC¶P»C-PrP¶PµPSPSC- P·
CrC¶P°C¶C, C¶ C...P»PsPiC¶PëPeC-PI (C¶C, P°PrC-C¶ PÿP°PSPSPµC¶P° II P°P±Ps PIPëC°Pµ)
C, P° PrC-PIC¶P°C, PsPe (PSPµ PjPµPSC€Pµ PSC-P¶ C¶PµC¶PµP· C¶C-Pe PiC-C¶P»C¶
PjPµPSP°C¶C...Pµ).

PµC-Pr C¶P°C¶ C†CHPsPiPs PsP±PjPµP¶PµPSPsPiPs PePsPSC, C¶PsP»CHPsPIP°PSPsPiPs
PrPsC¶P»C-PrP¶PµPSPSC¶ PIP·P°PiP°P»C- PSPµ C¶PiPsC¶C, PµC¶C-PiP°P»PsC¶C¶
P¶PsPrPSPsPiPs PiPsPjC-C, PSPsPiPs PIPiP»PëPICr PSP° C¶C-C¶C, C- C¶C, P°C, PµPIPµ
PrPsP·C¶C-PIP°PSPSC¶ C...P»PsPiC¶PëPeC-PI C, P° PrC-PIC¶P°C, PsPe PiC-PrP»C-C, PePsPiPsPiPs
PIC-PeCr C- P¶PsPrPSPsC— PrC-C— PSP° C, C¶PëPIP°P»C-C¶C, CH
PjPµPSC¶C, C¶CrP°P»CHPsPSPsPiPs C†PëPeP»Cr PI PrC-PIC¶P°C, PsPe. P¶PrPSP°Pe PrC-C¶
PµP·PµC, PëPjC-P±Cr PSP° C¶C-C¶C, C, P° C¶C, P°C, PµPIPµ PrPsP·C¶C-PIP°PSPSC¶
CrPiC¶PsPrPsPIP¶ PiPµC¶C-PsPrCr P»C-PeCrPIP°PSPSC¶ P±C-P»CHC€Pµ 33 C, PëP¶PSC-PI
PSPµ PIPëPIC¶P°P»Pë.

P'PμP·PīPμPeCř C,P° PμC,,PμPeC,PēPIPSC-CřC,CH PμP·PμC,PēPjC-P±Cř, C%Ps
PīCřPēP·PSP°C±P°P»Pē Cř PePsPjP±C-PSP°C†C-C— C-P· CřPēPjPIP°CřC,P°C,PēPSPsPj Cř
PrPsP·C- P±C-P»CHC€Pμ 40 PjPi PSP° PrPsP±Cř, PrC-C,CłPj PIC-PePsPj PIC-Pr 10 PrPs 17
CřPsPeC-PI, PSPμ PIPēPIC±P°P»Pē.

P'PμP·PīPμPeCř C,P° PμC,,PμPeC,PēPIPSC-CřC,CH PμP·PμC,PēPjC-P±Cř, C%Ps
PīCřPēP·PSP°C±P°P»Pē Cř PePsPjP±C-PSP°C†C-C— C-P· CřPēPjPIP°CřC,P°C,PēPSPsPj,
PrC-C,CłPj PIC-PePsPj PrPs 10 CřPsPeC-PI, PSPμ PIPēPIC±P°P»Pē.

P"PsPIPiPsCřC,CřPsPePsPICř PμC,,PμPeC,PēPIPSC-CřC,CH C,PμCřP°PīC-C—
PμP·PμC,PēPjC-P±PsPj Cř PīP°C†C-C"PSC,C-PI PIC-PePsPj PrPs 17 CřPsPeC-PI PrP»Cł
P·PSPēP¶PμPSPSCł P·P°C...PIPSCřCřPIP°PSPSCřC,C- C,P° P»PμC,P°P»CHPSPSCřC,C- Cř
P·CřC-P»PsPjCř PIC-C†C- PSPμ PrPsCřP»C-PrP¶CřPIP°P»Pē.

PαC-P±CřP°C,Pē

P'PμP·PīPμPeP° C,P° PμC,,PμPeC,PēPIPSC-CřC,CH PμP·PμC,PēPjC-P±Cř PīCřPē
P·P°CřC,PsCřCřPIP°PSPSC- P· C,,C-P±CřP°C,P°PjPē PSPμ PICřC,P°PSPsPIP»PμPSP°.

PμCřPē PīC-PrPsP·CřC- PSP° C...PsP»PμP»C-C,C-P°P· Cř PīP°C†C-C"PSC,P°, CłPePēPNē
PsC,CřPēPjCřC" PμP·PμC,PēPjC-P± C,P° C,,PμPSPsC,,C-P±CřP°C,, PīPsPeP°P·P°PSC-
PsP±CřC,PμP¶PμPSPSCł P¶PsPIC±PSPsPiPs PjC-C...CřCřP°, P° C,P°PeCř C,PμCřP°PīC-Cř
CřP»C-Pr PīCřPēPīPēPSPēC,Pē.

PiPēPeP»PsCřPīPsCřPēPS

PŸP»C-Pr P· PsP±PμCřPμP¶PSC-CřC,Cř CřPsP·PīPsC±PēPSP°C,Pē P»C-PeCřPIP°PSPSCł
PμP·PμC,PēPjC-P±PsPj PīP°C†C-C"PSC,P°PjPē, CłPeC- PīCřPēPNēPjP°CřC,CH
C†PēPeP»PsCřPīPsCřPēPS. Pj PīP°C†C-C"PSC,C-PI, CłPeC- PīCřPēPNēPjP°CřC,CH
PμP·PμC,PēPjC-P± C,P° C†PēPeP»PsCřPīPsCřPēPS, CřP»C-Pr PīPμCřPμPIC-CřCłC,Pē
PePsPSC†PμPSC,CřP°C†C-C— C†PēPeP»PsCřPīPsCřPēPSCř.

PřPSC,PēPePsP°PiCžP»CłPSC,Pē

PīPeC%Ps PμP·PμC,PēPjC-P± P·P°CřC,PsCřPsPICřPIP°C,Pē PSP° C,P»C- PīCřPēPNēPsPjCř
PIP°CřC,,P°CřPēPSCř, C-PSC€PsPiPs PeCřPjP°CřPēPSPsPiPs
P°PSC,PēPePsP°PiCřP»CłPSC,Cř P°P±Ps C,,P»CřC—PSPrC-PsPSCř, CřP»C-Pr PSP°P»PμP¶PSPēPj
C±PēPSPsPj PīPμCřPμPIC-CřCłC,Pē PjC-P¶PSP°CřPsPrPSPμ PSPsCřPjP°P»C-P·PsPIP°PSPμ
PIC-PrPSPSC€PμPSPSCł (PħPćP').

***P—P°CřC,PsCřCžPIP°PSPSCł Cž PīPμCřC-PsPr PIP°PiC-C,PSPsCřC,C- P°P±Ps
PīPsPrCžPIP°PSPSCł PiCřCžPrPrCř.***

PŸPμCřP°PīC-Cł PμP·PμC,PēPjC-P±PsPj Cř PePsPjP±C-PSP°C†C-C— P·C- CřC,P°C,PēPSPsPj
PīCřPsC,PēPīPsPeP°P·P°PSP° Cř PīPμCřC-PsPr PIP°PiC-C,PSPsCřC,C- P°P±Ps
PīPsPrCřPIP°PSPSCł PiCřCřPrPrCř (PrPēPI. CřPsP·PrC-P»
B«PμCřPsC,PēPīPsPeP°P·P°PSPSCłB»); CřP»C-Pr PsP·PSP°PNēPsPjPēC,PēCřCł P·
C-PSCřC,CřCřPeC†C-C"Cř PrP»Cł P·P°CřC,PsCřCřPIP°PSPSCł PrP»Cł C†CHPsPiPs
CřC,P°C,PēPSCř.

P'P°PiC-C,PSC-CÍC,CH

P·P·PμC,PëPjC-P± CÍP»C-Pr PíCḡPëP·PSP°C†P°C,Pë C,C-P»CHPePë PIP°PiC-C,PSPëPj P¶C-PSPeP°Pj, C¶PeC%Ps C†Pμ C¶IPSPs PSPμPsP±C...C-PrPSPs. PḡP»C-PSC-C†PSC- PrP°PSC- PíCḡPs P·P°CÍC,PscÍC†PIP°PSPSC¶ PμP·PμC,PëPjC-P±C† C† PíPμCḡC-PsPr PIP°PiC-C,PSPsCÍC,C- PIC-PrCÍC†C,PSC-. P''PsCÍP»C-PrP¶PμPSPSC¶ PSP° C,PIP°CḡPëPSP°C... C-P· PIPëPePsCḡPëCÍC,P°PSPSC¶Pj PμP·PμC,PëPjC-P±C† PI C¶PePsCÍC,C- PjPsPSPsC,PμCḡP°PíC-C— PíPsPeP°P·P°P»Pë PIC-PrCÍC†C,PSC-CÍC,CH PíCḡC¶PjPsPiPs P°P±Ps PSPμPíCḡC¶PjPsPiPs C¶PeC-PrP»PëPIPpsPiPs PIPiP»PëPIC† PSP° PIP°PiC-C,PSC-CÍC,CH, C,,PμC,PspμPjP±CḡC-PsPSP°P»CHPSPëPñ CḡPsP·PIPëC,Pspe, PíPsP»PsPiPë P°P±Ps PíPsCÍC,PSP°C,P°P»CHPSPëPñ PíPμCḡC-PsPr CḡPsP·PIPëC,PeC†.

P''PsPrC¿PIP°PSPSC¶ PiCḡC¿PrPrCḡ

P·P·PμC,PëPjC-P± PSPμ CÍP»C-Pr P·P°CÍC,PscÍC†PIC†PIP°C,Pë C† PíPμCḡC-PsPr PíPsPrC†PIP°PSPSC¶ PiCḡC†PrPrCḡ. P''PsCÍP»C-PrP¶PμPSPSC¶ PSP° C%C†CḡP°C... PíPsPeP°P·P°P»Pë, C%Ps PμP·PμC,PëPjC-P± PíCḡPsPSPëPeP°C'' PjPsP»PsPePs P»P°PeC,C†CḡC†PëC... C,PIP°CḡPëPS. PḡPμPIC-PrPsPjPs, C†Pë PíCḡPsPSPëPeP°C'' PμP·PμC,PëPjC-P± C† PiCḡC†PrPSPμ PjPsP»PsPePs P»CḡPrPëPSPë.

PαPμCḡC,PëP»CHPSC-CÍC,CH

PḡP»C-PSC-C†PSC- PrP°PSC- PíCḡPs PIPiP»PëPI PμP·PμC,PëPjC-P±C† PSP° C,,PμCḡC,PëP»CHPSC-CÍC,CH P»CḡPrPëPSPë PIC-PrCÍC†C,PSC-. P·P·PμC,PëPjC-P± PSPμ PíPsPeP°P·P°PI P¶PsPrPSPsPiPs PIPiP»PëPIC†.

P—PrP°C,PSC-CÍC,CH PIPiP»PëPIP°C,Pë PSP° C¶PIPëPrPeC-CÍC,CH CḡPμP°PeC†C-C— PíCḡPë PePμCḡC¿PIP°PSPSC- P°PIC,Psc,CḡP°PSCÍPíCḡC,Pspj P°P±Ps C-PSC¶PëPjPë PjPμC...P°PSC-P·PjP°PjPë.

P''PsCÍP»C-PrP¶PμPSCḡ C%PsPrPs PIPiP»PëPIC† PSP° P·PrP°C,PSC-CÍC,CH PePμCḡC†PIP°C,Pë P°PIC,PspjPsP±C-P»PμPj C,P° C-PSC¶PëPjPë PjPμC...P°PSC-C†PSPëPjPë P·P°CÍC†PsP±P°PjPë PSPμ PíCḡPsPIPpsPrPëP»Pë. PḡP»Pμ CÍP»C-Pr PICḡP°C...PsPIC†PIP°C,Pë, C%Ps PíPsPIC-PrPsPjP»C¶P»Pë PíCḡPs P·P°PíP°PjPsCḡPsC†PμPSPSC¶ PíCḡPë PePμCḡC†PIP°PSPSC- P°PIC,PspjPsP±C-P»PμPj C,P° C-PSC¶PëPjPë PjPμC...P°PSC-P·PjP°PjPë.

PŸPíPsCÍC-P± P·P°CÍC,PscÍC¿PIP°PSPSC¶ C,P° PrPsP·Pë.

PμCḡPsC,C¶PiPsPj C†CÍCHPsPiPs PeC†CḡCÍC† P»C-PeC†PIP°PSPSC¶ PμP·PμC,PëPjC-P±PsPj PíP°C†C-C''PSC, PíPsPIPëPSPμPS PrPsC,CḡPëPjC†PIP°C,PëCÍC¶ CÍC,P°PSPPrP°CḡC,PSPsC— P»C-PíC-PrPsP·PSPëP¶C†PIP°P»CHPSPsC— PrC-C''C,Pë.

P''PsP·C†PIP°PSPSC¶

P PμPePsPjPμPSPPrPsPIP°PSP° PrPsP·P° PμP·PμC,PëPjC-P±C† CÍC,P°PSPsPIPëC,CH 10 PjPi (1 C,P°P±P»PμC,PeP°) PSP° PrPsP±C†.

РѹСҗРѸ РrPsPrP°PIP°PSPSC- РμР·РμС,РѸРјС-Р±Сr РrPs СrС,Р°С,РѸPSCr СrР»С-Рr
PіСҗPsPrPsPIP¶CfPIP°С,РѸ PіСҗРѸPN₂PsPj PіPsC±P°С,РePsPIPsC— РrPsP·РѸ СrСҒPsPiPs
СrС,Р°С,РѸPSCr P°P±Ps P±С-Р»СҒС€ PIPēCfPsPePsC— РrPsP·РѸ СrС,Р°С,РѸPSCr, СrPeP°
PIP¶Pμ P±СrР»P° PіСҗРѸРѸ·PSP°С±PμPSP°. Pj С,Р°РePsPjCr PIPēPіP°PrPeCr СrР»С-Рr
PsP·PSP°PN₂PsPjРѸС,РѸCfСҒ P· С-PSCfС,СҗCrPeC†С-С"СҒ РrР»Сr PjPμPrРѸС±PSPsPiPs
P·Р°СrС,PsCfCrPIP°PSPSCr СrСҒPsPiPs СrС,Р°С,РѸPSCr.

P—P°CfС,PsCfСҒPIP°PSPSCr PіP°C†С-С"PSC,Р°Pj P· С-С€PμPjС-С±PSPsСҒ
С...PIPsСҗPsP±PsСҒ СrРμСҗС†Сr С,Р° PIPēPіP°PrPeP°PjРѸ Р"РґРґ PІ P°PSP°PjPSPμP·С-

Р"Р»Сr PіPsCfС,СrPіPsPIPsPiPs P·PSPēP¶PμPSPSCr СҗРѸРѸ·РѸPeCr PIPēPSPēPePSPμPSPSCr
СrРμСҗС†PμPIPs-СrCrPrРѸPSPSPēС... PіPsPrС-PN₂ PіP°C†С-С"PSC,Р°Pj P· С-С€PμPjС-С±PSPsСҒ
С...PIPsСҗPsP±PsСҒ СrРμСҗС†Сr С,Р° PIPēPіP°PrPeP°PjРѸ Р"РґРґ PІ P°PSP°PjPSPμP·С-
РμР·РμС,РѸРјС-Р± (10 PjPi) PjPsP¶PSP° P·Р°СrС,PsCfPsPICrPIP°С,РѸ Cr PePsPjP±С-PSP°C†С-С—
P·С- СrС,Р°С,РѸPSPsPj P· PіС-РrС,PIPμСҗРrP¶PμPSPēPj СrPіСҗРѸCІC,Р»РѸPIPēPj
PIPіP»РѸPIPsPj PSP° СrРμСҗС†PμPIPs-СrCrPrРѸPSPSCr СrРѸCfС,РμPjCr.

PґCҒPіCҒС,PSС-PN₂ PіСҗРѸPN₂PsPj С-Р· СrРμPePIPμCfС,СҗP°PSC,Р°PjРѸ
P¶PsPIC±PSPēС... PeРѸCfР»PsС,

РѹСҗРѸPN₂PsPj РμР·РμС,РѸРјС-Р±Сr СrР»С-Рr PіСҗPsPIPsPrРѸС,РѸ PSPμ PіС-Р·PSC-С€Pμ
PSC-Р¶ P·Р° 2 PіPsPrРѸPSPē РrPs P°P±Ps PSPμ СҗP°PSC-С€Pμ PSC-Р¶ С±PμСҗРμP·
4 PіPsPrРѸPSPē PіС-СrР»Сr PІPІPμPrPμPSPSCr СrРμPePIPμCfС,СҗP°PSC,Сr P¶PsPIC±PSPsC—
PeРѸCfР»PsС,РѸ.

РμP°C†С-С"PSC,РѸ Р»С-С,PSСҒPsPiPs PIC-PeCr

РѹP°C†С-С"PSC,РѸ Р»С-С,PSСҒPsPiPs PIC-PeCr PSPμ PіPsС,СҗРμP±СrСҒС,СҒ
PePsСҗРμPeC†С-С— РrPsP·РѸ.

РμPμC±С-PSPePsPIP° PSPμPrPsCfС,Р°С,PSC-СrС,СҒ

Р"Р»Сr PіP°C†С-С"PSC,С-PI С-Р· PіPμC±С-PSPePsPIPsСҒ PSPμPrPsCfС,Р°С,PSC-СrС,СҒ
Р»РμPіPePsPiPs СrС,СrPіPμPSCr (5 вґ" 6 P±P°P»С-PI P·Р° С€PeP°P»PsСҒ
P§P°PN₂P»PrP°-Pґвґ™ СҒ) PePsСҗРμPeC†С-Сr РrPsP·РѸ PSPμ PіPsС,СҗС-Р±PSP°.
P>С-PeCrPIP°PSPSCr РμР·РμС,РѸРјС-Р±PsPj PSPμ СҗРμPePsPjPμPSPrPsPIP°PSPs
PіP°C†С-С"PSC,Р°Pj P· PіPsPjС-СҗPSPēPj (7 вґ" 9 P±P°P»С-PI P·Р° С€PeP°P»PsСҒ
P§P°PN₂P»PrP°-Pґвґ™ СҒ) P°P±Ps С,СrP¶PeРѸPj (P±С-Р»СҒС€Pμ 9 P±P°P»С-PI P·Р°
С€PeP°P»PsСҒ P§P°PN₂P»PrP°-Pґвґ™ СҒ) PіPsСҗCrС€PμPSPSCr Pj С,,СrPSPeC†С-С—
PіPμC±С-PSPeРѸ.

РkРѸСҗPePsPIP° PSPμPrPsCfС,Р°С,PSC-СrС,СҒ

РѹP°C†С-С"PSC,РѸ P· PSPēСҗPePsPIPsСҒ PSPμPrPsCfС,Р°С,PSC-СrС,СҒ PSPμ
PіPsС,СҗРμP±СrСҒС,СҒ PePsСҗРμPeC†С-С— РrPsP·РѸ.

PґPіPsCfС-Р± P·Р°СrС,PsCfCrPIP°PSPSCr

РѹСҗРμPіP°СҗP°С, P·Р°СrС,PsCfPsPICrPIP°С,РѸ PіPμСҗPsСҗP°P»СҒPSPs. P·Р·РμС,РѸРјС-Р±
PjPsP¶PSP° PіСҗРѸPN₂PjP°С,РѸ Cr P±СrPrСҒ-СrPeРѸPN₂ С±P°Cf РrPsP±РѸ PSPμP·Р°P»PμP¶PSPs
PIC-Pr PіСҗРѸPN₂PsPjCr С—P¶С-.

$$\begin{aligned} & \text{P}\acute{\text{K}}\text{P}^{\circ} \text{P}\ddot{\text{i}}\text{P}\text{sC}\ddagger\text{P}^{\circ}\text{C}, \text{PeC}\acute{\text{r}} \text{P}\gg\text{C}-\text{PeC}\acute{\text{r}}\text{PIP}^{\circ}\text{PSPSC}\Pi \text{PSP}\mu\text{PsP}\pm\text{C}\dots\text{C}-\text{PrPSP}\ddot{\text{e}}\text{PN}\ddot{\text{e}} \text{PSP}^{\circ}\text{PiP}\gg\text{C}\Pi\text{Pr} \\ & \text{C}\acute{\text{r}}\text{P}\ddot{\text{i}}\text{P}\mu\text{C}\ddagger\text{C}-\text{P}^{\circ}\text{P}\gg\text{C}-\text{C}\acute{\text{r}}\text{C}, \text{P}^{\circ}. \end{aligned}$$

$P''C-C, P\ddot{e} C, P^\circ \text{ PiC-PrP} \gg C-C, P\ddot{e}P\ddot{e} \text{ PIC-PePsPj PIC-Pr } 6 \text{ C}\ddot{H}\text{PsPeC-PI: PIC-PrPsPjPs, } C\%Ps$
 $P \pm P\ddot{u}P \cdot \ddot{P}iP\ddot{u}PeP^\circ C, P^\circ P\ddot{u}C,, P\ddot{u}PeC, P\ddot{e}PIPSC-C\acute{I}C, C\ddot{H} C\%PsPrPs$
 $P \cdot P^\circ C\acute{I}C, PsC\acute{I}C\acute{r}PIP^\circ PSPSC\ddot{u} P\ddot{u}P \cdot P\ddot{u}C, P\ddot{e}PjC-P \pm C\acute{r} PrC-C, C\ddot{u}Pj \text{ PIC-PePsPj PIC-Pr } 6 \text{ PrPs}$
 $17 \text{ C}\ddot{H}\text{PsPeC-PI PSP}\ddot{u} \text{ PIC}\acute{I}C, P^\circ PSPsPIP \gg P\ddot{u}PSP^\circ. P\acute{K}P^\circ C\ddot{u}PIPSC- PSP^\circ PrP^\circ PSP\ddot{e}PN_{\mathbb{Z}} C\ddot{t}P^\circ C\acute{I}$
 $PrP^\circ PSC- PSP^\circ PIPsPrC\ddot{u}C, C\ddot{H}C\acute{I}C\ddot{u} C\acute{r} \text{ C}\ddot{H}\text{PsP} \cdot PrC-P \gg P^\circ C \dots$
 $B \langle P\alpha P^\circ C\ddot{H}PjP^\circ PePsPrP\ddot{e}PSP^\circ PjC-PeP^\circ B \rangle, B \langle P\alpha P^\circ C\ddot{H}PjP^\circ PePsPeC-PSP\ddot{u}C, P\ddot{e}C\ddot{t}PSC-$
 $PIP \gg P^\circ C\acute{I}C, P\ddot{e}PIPsC\acute{I}C, C-B \rangle, B \langle PhC\acute{I}PsP \pm P \gg P\ddot{e}PIPsC\acute{I}C, C- P \cdot P^\circ C\acute{I}C, PsC\acute{I}C\acute{r}PIP^\circ PSPSC\ddot{u}B \rangle,$
 $B \langle P\ddot{u}PsP \pm C-C\ddot{t}PSC- C\ddot{H}P\ddot{u}P^\circ PeC\ddot{t}C-C-B \rangle, P^\circ P \gg P\ddot{u} \text{ C}\ddot{H}P\ddot{u}PePsPjP\ddot{u}PSPPrP^\circ C\ddot{t}C-C- C\%PsPrPs$
 $PrPsP \cdot C\acute{r}PIP^\circ PSPSC\ddot{u} PSP\ddot{u}PjPsP\uparrow P \gg P\ddot{e}PIC-.$

$\text{P}_{\text{u}}\text{C}\text{H}_2\text{P}\ddot{\text{e}} \text{ P}\ddot{\text{e}}\text{C}\text{H}_2\text{P}\ddot{\text{e}}\text{P}\text{N}_2\text{P}\text{sPjC}- \text{P}_{\text{u}}\text{P}\cdot\text{P}_{\text{u}}\text{C}, \text{P}\ddot{\text{e}}\text{PjC}-\text{P}\pm\text{C}\acute{\text{r}} \text{ P}\cdot\text{C}- \text{C}\acute{\text{r}}\text{C}, \text{P}^\circ\text{C}, \text{P}\ddot{\text{e}}\text{PSPsPj} \text{ C}\acute{\text{r}}\text{P}\gg\text{C}-\text{Pr}$
 $\text{PsP}\cdot\text{PSP}^\circ\text{P}\text{N}_2\text{P}\text{sPjP}\ddot{\text{e}}\text{C}, \text{P}\ddot{\text{e}}\text{C}\acute{\text{r}}\text{C}\text{H} \text{ P}\cdot \text{C}-\text{PSC}\acute{\text{r}}\text{C}, \text{C}\text{H}\text{C}\acute{\text{r}}\text{P}\text{eC}\dagger\text{C}-\text{C}''\text{C}\text{H} \text{ PrP}\gg\text{C}\text{H} \text{ P}\cdot\text{P}^\circ\text{C}\acute{\text{r}}\text{C}, \text{PsC}\acute{\text{r}}\text{C}\acute{\text{r}}\text{PIP}^\circ\text{PSPSC}\text{H}$
 $\text{C}\%_{\text{oo}}\text{PsPrPs} \text{ PrPsP}\cdot\text{C}\acute{\text{r}}\text{PIP}^\circ\text{PSPSC}\text{H} \text{ PrP}\gg\text{C}\text{H} \text{ PrC}-\text{C}, \text{P}_{\text{u}}\text{P}\text{N}_2.$

$P''C-C, P\ddot{e} \text{ PIC-PePsPj PrPs } 6 \text{ C}\ddot{H}\text{PsPeC-PI: PIC-PrPsPjPs, } C\%_{\text{ooPs}} P \pm P_{\mu}P \cdot P_{\mu}P_{\mu}PeP^{\circ} C, P^{\circ}$
 $P_{\mu}C_{,,} P_{\mu}PeC, P\ddot{e}PIPSC-C\acute{I}C, CH \text{ } C\%_{\text{ooPs}}PsPrPs P \cdot P^{\circ}C\acute{I}C, PsC\acute{I}C\acute{r}PIP^{\circ}PSPSC\ddot{I}\ddot{I}$
 $P_{\mu}P \cdot P_{\mu}C, P\ddot{e}PjC-P \pm C\acute{r} \text{ PrC-C, } C\ddot{I}Pj \text{ PIC-PePsPj PrPs } 6 \text{ C}\ddot{H}\text{PsPeC-PI PSP}_{\mu}$
 $PIC\acute{I}C, P^{\circ}PSPsPIP \gg P_{\mu}PSP^{\circ}. P \dagger PSC_{,,} PsC\ddot{H}PjP^{\circ}C \dagger C-C\ddot{I} \text{ PIC-PrC}\acute{I}C\acute{r}C, PSC\ddot{I}\ddot{I}.$

PuPμCḤPμPṚPsP·CżPIP°PSPSCḲ.

Pj PrPsCfP»C-PrP¶PµPSPSC¶C... PIPµPrPµPSPSC¶ PµP·PµC,PëPjC-P±Cr 50 PjPi/PrPsP±Cr 15
P·PrPsC¶PµPIPëPj CrC±P°CfPSPëPeP°Pj PiC¶PµC,C¶PiPsPj 14 PrPSC-PI P°P±Ps 40 PjPi/PrPsP±Cr
18 PiP°CfC-C°PSC,P°Pj P· PiPµC¶PIPëPSPSPsC¶
PiC-PiPµC¶C...PsP»PµCfC,PµC¶PëPSPµPjC-C°C¶ PiC¶PµC,C¶PiPsPj PrPs 56 PrPSC-PI, C¶Pe
PiC¶P°PIPëP»Ps, PrPsP±C¶Pµ PiPµC¶PµPSPsCfPëP»PsCfC¶. Pj C,PIP°C¶PëPS
C,PsPeCfPëC±PSC-CfC,C¶ PSPµ CfPiPsCfC,PµC¶C-PiP°P»P°CfC¶, PiC-CfP»C¶
PsPrPSPsC¶P°P·PsPIPëC... PiPµC¶PµC¶P°P»C¶PSPëC... PrPsP· 5000 PjPi/PePi
PµP·PµC,PëPjC-P±Cr Cr C%CrC¶C-PI C,P° PjPëC¶PµPµ C,P° 3000 PjPi/PePi Cr CfPsP±P°Pe.

$\text{P}_{\mu}\text{PsPIC}-\text{PrPsPjP}\gg\text{C}\Pi\text{P}\gg\text{P}\ddot{\text{e}}\text{PiC}\overline{\text{H}}\text{PsPrP}_{\mu}\text{PeC}-\text{P}\gg\text{CHbPeP}^{\circ}\text{PIP}\ddot{\text{e}}\text{PiP}^{\circ}\text{PrPeC}-\text{PI}$
 $\text{PiP}_{\mu}\text{C}\overline{\text{H}}\text{P}_{\mu}\text{PrPsP}\cdot\text{CrPIP}^{\circ}\text{PSPSC}\Pi\text{P}_{\mu}\cdot\text{P}_{\mu}\text{C},\text{P}\ddot{\text{e}}\text{PjC}-\text{P}\pm\text{PsPj};\text{CrP}\pm\text{C}-\text{P}\gg\text{CHbC}\epsilon\text{PsC}\overline{\text{f}}\text{C},\text{C}-$
 $\text{PIP}\ddot{\text{e}}\text{PiP}^{\circ}\text{PrPeC}-\text{PIPiP}_{\mu}\text{C}\overline{\text{H}}\text{P}_{\mu}\text{PrPsP}\cdot\text{CrPIP}^{\circ}\text{PSPSC}\Pi\text{PSP}_{\mu}\text{C}\overline{\text{f}}\text{PiC}\overline{\text{H}}\text{P}\ddot{\text{e}}\text{C}\ddot{\text{e}}\text{PSP}\ddot{\text{e}}\text{P}\gg\text{Ps}$
 $\text{PSP}_{\mu}\text{P}\pm\text{P}^{\circ}\text{P}\overline{\text{P}}^{\circ}\text{PSP}\ddot{\text{e}}\text{C}\dots\text{C}\Pi\text{PIP}\ddot{\text{e}}\text{C}\%_{\circ}\text{B}\text{P}\acute{\text{K}}\text{P}_{\mu}\text{P}\pm\text{P}^{\circ}\text{P}\overline{\text{P}}^{\circ}\text{PSC}-\text{C}\Pi\text{PIP}\ddot{\text{e}}\text{C}\%_{\circ}\text{P}^{\circ},\text{C}\Pi\text{PeC}-$
 $\text{C}\overline{\text{f}}\text{PiPsC}\overline{\text{f}}\text{C},\text{P}_{\mu}\text{C}\overline{\text{H}}\text{C}-\text{PiP}^{\circ}\text{P}\gg\text{P}\ddot{\text{e}}\text{C}\overline{\text{f}}\text{C}\Pi,\text{PSP}_{\mu}\text{P}\pm\text{CrP}\gg\text{P}\ddot{\text{e}}\text{C}\overline{\text{f}}\text{P}_{\mu}\text{C}\overline{\text{H}}\text{PN}_{\circ}\text{PsP}\cdot\text{PSP}\ddot{\text{e}}\text{PjP}\ddot{\text{e}}.\text{PjC}\overline{\text{H}}\text{P}^{\circ}\text{P}\cdot\text{C}-$
 $\text{PiP}_{\mu}\text{C}\overline{\text{H}}\text{P}_{\mu}\text{PrPsP}\cdot\text{CrPIP}^{\circ}\text{PSPSC}\Pi\text{C}\overline{\text{f}}\text{P}\gg\text{C}-\text{PrPIP}\overline{\text{P}}\text{P}\ddot{\text{e}}\text{C},\text{P}\ddot{\text{e}}\text{C}\overline{\text{f}}\text{P}\ddot{\text{e}}\text{PjPiC},\text{PsPjP}^{\circ}\text{C},\text{P}\ddot{\text{e}}\text{C}\ddot{\text{e}}\text{PSP}\ddot{\text{e}}\text{C}\dots\text{C},\text{P}^{\circ}$
 $\text{PiC}-\text{PrC},\text{C}\overline{\text{H}}\text{P}\ddot{\text{e}}\text{PiCrC}\overline{\text{H}}\text{C}\ddot{\text{e}}\text{P}\ddot{\text{e}}\text{C}\dots\text{P}\cdot\text{P}^{\circ}\text{C}\dots\text{PsPrC}-\text{PI}.$

$P_{\psi}P_{\sigma}P_{\pm}C-C\mp PSC-C\bar{H}P_{\mu}P^{\circ}P_{\epsilon}C\mp C-C-$.

$$\text{P}\ddot{\text{K}}\text{P}\ddot{\text{E}}\text{P}\text{P}\text{C}\ddot{\text{C}}\text{P}\text{P}\text{P}\text{S}\text{P}^{\circ}\text{P}\text{I}\text{P}\text{P}\text{P}\text{r}\text{P}\text{P}\text{P}\text{S}\text{P}\ddot{\text{E}}\text{P}\text{N}\text{P}\text{C}\text{I}\ddot{\text{C}}\text{P}\ddot{\text{I}}\text{P}\ddot{\text{E}}\text{C}\ddot{\text{I}}\text{P}\text{S}\text{P}\text{e}\text{P}\ddot{\text{I}}\text{P}\text{S}\text{P}\pm\text{C}-\text{C}\ddot{\text{C}}\text{P}\text{S}\text{P}\ddot{\text{E}}\text{C}\dots\text{C}\ddot{\text{H}}\text{P}\text{P}\text{P}^{\circ}\text{P}\text{e}\text{C}\ddot{\text{C}}\text{P}-\text{P}\text{N}\text{P}$$

(PeP»C-PSC-C#PSC- PrPsCfP»C-PrP¶PµPSPSC¶ C,P°
 PīC-CfP»C¶C¶PµC" CfC,C¶P°C†C-PN₂PSPēPN₂ PīPµC¶C-PsPr). PJ PrPsCfP»C-PrP¶PµPSPSC¶C...
 C,C¶PēPIP°P»C-CfC,C¶ PrPs 112 C,PēP¶PSC-PI PµP·PµC,PēPjC-P± Cr PrPsP·C- 10 PjPi PSP°
 PrPsP±Cr PIPsPrPēP»Pē PsPeC¶PµPjPs 2396 PīP°C†C-C" PSC,P°Pj P°P±Ps PI
 PePsPjP±C-PSP°C†C-C— P·C- CfC,P°C,PēPSPsPj 11308 PīP°C†C-C" PSC,P°Pj P°P±Ps
 C,,PµPSPsC,,C-P±C¶P°C,PsPj
 185 PīP°C†C-C" PSC,P°Pj. PµPsP±C-C#PSC- C¶PµP°PeC†C-C—, C¶Pe PīC¶P°PIPēP»Ps, P±CrP»Pē
 PSPµP·PSP°C#PSPēPjPē C,P° PePsC¶PµC,PePsC,C¶PēPIP°P»PēPjPē. P—P°PīP°P»CHPSP°
 C#P°CfC,PsC,P° PīPsP±C-C#PSPēC... C¶PµP°PeC†C-PN₂ P±CrP»P° PīPsPrC-P±PSPsC¶ PjC-P¶
 PµP·PµC,PēPjC-P±PsPj C,P° PīP»P°C†PµP±Ps. P¶PSP°P»PsPiC-C#PSPs, C#P°CfC,PsC,P°
 PīC¶PēPīPēPSPµPSPSC¶ P»C-PeCrPIP°PSPSC¶ C#PµC¶PµP· PSPµP±P°P¶P°PSC- C¶PIPēC%oP°
 P±CrP»P° CfPīC-PICfC,P°PIPSPsC¶ PjC-P¶ PµP·PµC,PēPjC-P±PsPj C,P° PīP»P°C†PµP±Ps.

P·P·PµC,PēPjC-P± Cž C¶PePsCfC,C- PjPsPSPsC,PµC¶P°PīC-C— P°P±Ps PI
PePsPjP±C-PSP°C†C-C— P·C- CfC,P°C,PēPSPsPj

PkPēP¶C#PµP·P°P·PSP°C#PµPSC- PīPsP±C-C#PSC- C¶PµP°PeC†C-C—
 CfPīPsCfC,PµC¶C-PiP°P»PēCfC¶ Cr PeP»C-PSC-C#PSPēC...
 PrPsCfP»C-PrP¶PµPSPSC¶C... Cr PīP°C†C-C" PSC,C-PI, C¶PeC- P»C-PeCrPIP°P»PēCfC¶
 PµP·PµC,PēPjC-P±PsPj (N = 2396), C,P° PIPēPSPēPeP°P»Pē C#P°CfC,C-C¶Pµ, PSC-P¶ Cr
 PiC¶CfPīC- PīP»P°C†PµP±Ps (N = 1159), P°P±Ps CfPīPsCfC,PµC¶C-PiP°P»PēCfC¶ Cr
 PīP°C†C-C" PSC,C-PI, C¶PeC- P»C-PeCrPIP°P»PēCfC¶ PµP·PµC,PēPjC-P±PsPj
 CfCfPīCfC,PSCHbPs P·C- CfC,P°C,PēPSPsPj (N = 11308), C,P° PIPēPSPēPeP°P»Pē
 C#P°CfC,C-C¶Pµ, PSC-P¶ Cr PiC¶CfPīC- PīC¶PēPN₂PsPjCr C,C-P»CHbPePē CfC,P°C,PēPSCr (N =
 9361). PµPsP±C-C#PSC- C¶PµP°PeC†C-C— Cr PīC-CfP»C¶C¶PµC" CfC,C¶P°C†C-PN₂PSPēPN₂
 PīPµC¶C-PsPr P±CrP»Pē PsC,C¶PēPjP°PSC- P· PīPsPIC-PrPsPjP»PµPSCHb, Cr C¶PePēC...
 PµP·PµC,PēPjC-P± PIPsPrPēP»Pē P°P±Ps PsPeC¶PµPjPs, P°P±Ps CfCfPīCfC,PSCHbPs P·C-
 CfC,P°C,PēPSPsPj.

P¶P°CfC,PsC,P° PIPēPSPēPePSPµPSPSC¶ PīPsP±C-C#PSPēC... PµC,,PµPeC,C-PI
 PeP»P°CfPēC,,C-PeCrC"C,CHbCfC¶ C,P°PePēPj C#PēPSPsPj: PrCfP¶Pµ C#P°CfC,Ps (≥1/10),
 C#P°CfC,Ps (≥1/100 PrPs <1/10), PSPµC#P°CfC,Ps (≥1/1000 PrPs <1/100), C¶C-PrPePs (≥1/10000
 <1/1000), PrCfP¶Pµ C¶C-PrPePs
 (<1/10 000) C,P° PSPµPIC-PrPsPjPs (PSPµPjPsP¶P»PēPIPs PsC†C-PSPēC,Pē P·P°
 PSP°C¶IPSPēPjPē PrP°PSPēPjPē).

PhPsPSPsC,PµC¶P°PīC-C¶ PµP·PµC,PēPjC-P±PsPj		
PµP»P°CfPē CfPēCfC,PµPj PsC¶PIP°PSC-PI	PµPsP±C-C#PSC- C¶PµP°PeC†C-C—	P¶P°CfC,PsC,P°
P— P±PsPeCr PsP±PjC-PSCr C¶PµC#PsPIPēPS C,P° C...P°C¶C#CfPIP°PSPSC¶	P·PSPēP¶PµPSPSC¶ P°PīPµC,PēC,Cr	PkPµC#P°CfC,Ps
P— P±PsPeCr CfCfPrPēPSPSPSC— CfPēCfC,PµPjPē	PīC¶PēPīP»PēPIPē; PiC-PīPµC¶C,PµPSP·C-C¶	PkPµC#P°CfC,Ps
PµPsC¶CfC¶PµPSPSC¶ P· P±PsPeCr PrPēC...P°P»CHbPSPsC— CfPēCfC,PµPjPē, PsC¶PiP°PSC-PI PiC¶CfPrPSPsC— PeP»C-C,PēPē C,P° CfPµC¶PµPrPsCfC,C-PSPSC¶	PeP°C¶PµP»CHb	PkPµC#P°CfC,Ps
P— P±PsPeCr C¶P»CfPSPePsPIPs- PePēC¶PePsPIPsPiPs C,C¶P°PeC,Cr	P°P±PrPsPjC-PSP°P»CHbPSPēPN₂ P±C-P»CHb; PrC-P°C¶PµC¶; PjPµC,PµPsC¶PēP·Pj PrPēCfPīPµPīCfC-C¶; PīP°CfC,C¶PsPµP·PsC,,P°PiPµP°P»CHbPSPēPN₂ C¶PµC,,P»CHbPeCf; PSCrPrPsC,P°	P¶P°CfC,Ps PkPµC#P°CfC,Ps

$P-P\pm PsPeCr\ C\overline{I}PeP\mu P\gg P\mu C, PSPs-Pj\overline{b}\overline{H}^{\overline{TM}}\ C\overline{I}P\cdot PsPIPsC- C, P^{\circ}C\overline{I}PiPsP\gg CrC\ddagger PSPsC- C, PeP^{\circ}PSP\ddot{e}PSP\ddot{e}$	$P^{\circ}C\overline{I}C, C\overline{H}P^{\circ}P\gg PiC-C\overline{I}; Pj\overline{b}\overline{H}^{\overline{TM}}\ C\overline{I}P\cdot PsPIC- C\overline{I}PiP^{\circ}P\cdot PjP\ddot{e}; P\pm C-P\gg CH\ Cr\ C\overline{e}P\ddot{e}C-$	$P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P-P^{\circ}PiP^{\circ}P\gg CH\overline{b}PSC-PiPsC\overline{H}CrC\overline{e}P\mu PSPSC\overline{I}\ C, P^{\circ}C\overline{H}P\mu P^{\circ}PeC\ddagger C-C- Cr\ PjC-C\overline{I}C\ddagger C-PIPIP\mu PrP\mu PSPSC\overline{I}$	$PIC, PsPjP^{\circ}$ $P\pm C-P\gg CH\ Cr\ PiC\overline{H}CrPrC\overline{I}C..., P\pm C-P\gg CH$	$P\overline{S}P^{\circ}C\overline{I}C, Ps$ $P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P\cdot P^{\circ}P\pm PsC\overline{H}P^{\circ}C, PsC\overline{H}PSC-PrPsC\overline{I}P\gg C-PrP\overline{I}P\mu PSPSC\overline{I}$	$P\mu C-PrPIP\ddot{e}C\%P\mu PSPSC\overline{I}\ P\overline{h}P\cdot P\overline{y}\ C, P^{\circ}/P^{\circ}P\pm Ps\ P\overline{h}P\overline{y}P\overline{y}; PiC-PrPIP\ddot{e}C\%P\mu PSPSC\overline{I}\ C\overline{H}C-PIPSC\overline{I}\ PeC\overline{H}P\mu P^{\circ}C, P\ddot{e}PSC_{,,}PsC\overline{I}C_{,,}PsPeC-PSP^{\circ}P\cdot P\ddot{e}\ PI\ C\overline{I}P\ddot{e}C\overline{H}PsPIP^{\circ}C, C\ddagger C- PeC\overline{H}PsPIC-; P\overline{i}C-PrPIP\ddot{e}C\%P\mu PSPSC\overline{I}\ C\overline{H}C-PIPSC\overline{I}\ PiP^{\circ}PjPjP^{\circ}-PiP\gg CrC, P^{\circ}PjC-P\gg C, C\overline{H}P^{\circ}PSC\overline{I}C_{,,}P\mu C\overline{H}P^{\circ}P\cdot P\ddot{e}; C\overline{H}P\mu P\cdot CrP\gg CHC, P^{\circ}C, P\ddot{e}\ C_{,,}CrPSPeC\ddagger C-PsPSP^{\circ}P\gg CH\overline{b}PSP\ddot{e}C... P\overline{i}P\mu C\ddagger C-PSPePsPIP\ddot{e}C... PiC\overline{H}PsP\pm\ PiPsP\cdot P^{\circ}PSP_sC\overline{H}PjPsC\overline{H}$	$P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P^{\circ}PsPrP^{\circ}C, PePsPIC- P\overline{i}PsP\pm C-C\ddagger PSC- C\overline{H}P\mu P^{\circ}PeC\ddagger C-C- P\overline{i}C\overline{H}P\ddot{e}\ C\overline{I}CrPiCrC, PSCH\overline{b}PsPjCr\ P\overline{i}C\overline{H}P\ddot{e}PN_{\overline{b}}PsPjC-P\mu P\cdot P\mu C, P\ddot{e}PjC-P\pm Cr\ P\cdot C- C\overline{I}C, P^{\circ}C, P\ddot{e}PSPsPj$		
$P\overline{b}P\gg P^{\circ}C\overline{I}P\ddot{e}\ C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjPsC\overline{H}PiP^{\circ}PSC-PI$	$P\mu PsP\pm C-C\ddagger PSC- C\overline{H}P\mu P^{\circ}PeC\ddagger C-C-$	$P\overline{S}P^{\circ}C\overline{I}C, PsC, P^{\circ}$
$P- P\pm PsPeCr\ PSP\mu C\overline{H}PIPsPIPsC-C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjP\ddot{e}$	$PiPsP\gg PsPIPSP\ddot{e}PN_{\overline{b}}\ P\pm C-P\gg CH$ $P\overline{i}P^{\circ}C\overline{H}P\mu C\overline{I}C, P\mu P\cdot C-C\overline{I}$	$P\overline{S}P^{\circ}C\overline{I}C, Ps$ $P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P- P\pm PsPeCr\ C\overline{e}P\gg CrPSPePsPIPs-PeP\ddot{e}C\overline{e}PePsPIPsPiPs\ C, C\overline{H}P^{\circ}PeC, Cr$	$C\overline{I}CrC...C-C\overline{I}C, CH\ Cr\ C\overline{H}PsC, C-; PiP^{\circ}C\overline{I}C, C\overline{H}P\ddot{e}C,$	$P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P- P\pm PsPeCr\ C\overline{e}PeC-C\overline{H}P\ddot{e}\ C, P^{\circ}PiC-PrC\overline{e}PeC-C\overline{H}PSP\ddot{e}C... C, PeP^{\circ}PSP\ddot{e}PS$	$C\overline{I}PIP\mu C\overline{H}P\pm C-P\overline{I}; PIP\ddot{e}C\overline{I}P\ddot{e}P\overline{i}P^{\circ}PSPSC\overline{I}; PeC\overline{H}PsP\overline{i}P\ddot{e}PI\overline{b}\overline{H}^{\overline{TM}}\ C\overline{I}PSPeP^{\circ}$	$P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P- P\pm PsPeCr\ C\overline{I}PeP\mu P\gg P\mu C, PSPs-Pj\overline{b}\overline{H}^{\overline{TM}}\ C\overline{I}P\cdot PsPIPsC- C, P^{\circ}C\overline{I}PiPsP\gg CrC\ddagger PSPsC- C, PeP^{\circ}PSP\ddot{e}PSP\ddot{e}$	$PjC-P^{\circ}P\gg PiC-C\overline{I}$ $P\pm C-P\gg CH\ Cr\ C\overline{I}P\overline{i}P\ddot{e}PSC-; C\overline{I}P\gg P^{\circ}P\pm PeC-C\overline{I}C, CH\ Pj\overline{b}\overline{H}^{\overline{TM}}\ C\overline{I}P\cdot C-PI; P\pm C-P\gg CH\ Cr\ PeC-PSC\ddagger C-PIPeP^{\circ}C...$	$P\overline{S}P^{\circ}C\overline{I}C, Ps$ $P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P-P^{\circ}PiP^{\circ}P\gg CH\overline{b}PSC-PiPsC\overline{H}CrC\overline{e}P\mu PSPSC\overline{I}\ C, P^{\circ}C\overline{H}P\mu P^{\circ}PeC\ddagger C-C- Cr\ PjC-C\overline{I}C\ddagger C-PIPIP\mu PrP\mu PSPSC\overline{I}$	$P^{\circ}C\overline{I}C, P\mu PSC-C\overline{I}; P\overline{i}P\mu C\overline{H}P\ddot{e}C_{,,}P\mu C\overline{H}P\ddot{e}C\ddagger PSC-PSP^{\circ}P\pm C\overline{H}C\overline{I}PeP\ddot{e}$	$P\acute{K}P\mu C\ddagger P^{\circ}C\overline{I}C, Ps$
$P\cdot P^{\circ}P\pm PsC\overline{H}P^{\circ}C, PsC\overline{H}PSC-PrPsC\overline{I}P\gg C-PrP\overline{I}P\mu PSPSC\overline{I}$	$P\mu C-PrPIP\ddot{e}C\%P\mu PSPSC\overline{I}\ P\overline{h}P\cdot P\overline{y}\ C, P^{\circ}/P^{\circ}P\pm Ps\ P\overline{h}P\overline{y}P\overline{y}$	$P\overline{S}P^{\circ}C\overline{I}C, Ps$
$P\mu C-C\overline{I}P\gg C\overline{I}C\overline{H}P\mu C^{\circ}C\overline{I}C, C\overline{H}P^{\circ}C\ddagger C-PN_{\overline{b}}PSP\ddot{e}PN_{\overline{b}}\ P\overline{i}P\mu C\overline{H}C-PsPr\ (P\cdot C- C\overline{I}C, P^{\circ}C, P\ddot{e}PSPsPj\ P^{\circ}P\pm Ps\ P\pm P\mu P\cdot PSCH\overline{b}PsPiPs)$		
$P\overline{b}P\gg P^{\circ}C\overline{I}P\ddot{e}\ C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjPsC\overline{H}PiP^{\circ}PSC-PI$	$P\mu PsP\pm C-C\ddagger PSC- C\overline{H}P\mu P^{\circ}PeC\ddagger C-C-$	$P\overline{S}P^{\circ}C\overline{I}C, PsC, P^{\circ}$
$P- P\pm PsPeCr\ C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjP\ddot{e}PeC\overline{H}PsPIPsC, PIPsC\overline{H}P\mu PSPSC\overline{I}\ C, P^{\circ}P\gg C-PjC_{,,}P^{\circ}C, P\ddot{e}C\ddagger PSPsC-C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjP\ddot{e}$	$C, C\overline{H}PsPjP\pm PsC\ddagger P\ddot{e}C, PsP\overline{i}P\mu PSC-C\overline{I}$	$P\acute{K}P\mu PIC-PrPsPjC-$
$P- P\pm PsPeCr\ C-PjCrPSPSPsC-C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjP\ddot{e}$	$PiC-P\overline{i}P\mu C\overline{H}C\ddagger CrC, P\gg P\ddot{e}PIC-C\overline{I}C, CH_{,,}PIPeP\gg C\overline{H}C\ddagger P^{\circ}C\overline{H}C\ddagger P\ddot{e}\ PIP\ddot{e}C\overline{I}P\ddot{e}P\overline{i}P^{\circ}PSPSC\overline{I}, PeC\overline{H}PsP\overline{i}P\ddot{e}PI\overline{b}\overline{H}^{\overline{TM}}\ C\overline{I}PSPeCr, P^{\circ}PSP^{\circ}C_{,,}C-P\gg P^{\circ}PeC\overline{I}C-C\overline{H}\ C, P^{\circ}P^{\circ}PSPiC-PsPSP\mu PIC\overline{H}PsC, P\ddot{e}C\ddagger PSP\ddot{e}PN_{\overline{b}}\ PSP^{\circ}P\pm C\overline{H}C\overline{I}Pe$	$P\acute{K}P\mu PIC-PrPsPjC-$
$P\mu C\overline{I}P\ddot{e}C...C-C\ddagger PSC-PiPsC\overline{H}CrC\overline{e}P\mu PSPSC\overline{I}$	$PrP\mu PiC\overline{H}P\mu C\overline{I}C-C\overline{I}$	$P\acute{K}P\mu PIC-PrPsPjC-$
$P- P\pm PsPeCr\ PSP\mu C\overline{H}PIPsPIPsC-C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjP\ddot{e}$	$P\cdot P^{\circ}P\overline{i}P^{\circ}PjPsC\overline{H}PsC\ddagger P\mu PSPSC\overline{I}; P\overline{i}P^{\circ}C\overline{H}P\mu C\overline{I}C, P\mu P\cdot C-C\overline{I}$	$P\acute{K}P\mu PIC-PrPsPjC-$
$P- P\pm PsPeCr\ PrP\ddot{e}C...P^{\circ}P\gg CH\overline{b}PSPsC-C\overline{I}P\ddot{e}C\overline{I}C, P\mu PjP\ddot{e}, PsC\overline{H}PiP^{\circ}PSC-PI PiC\overline{H}CrPrPSPsC- PeP\gg C-C, PeP\ddot{e}\ C, P^{\circ}C\overline{I}P\mu C\overline{H}P\mu PrPsC\overline{I}C, C-PSPSC\overline{I}$	$PrP\ddot{e}C\overline{I}P\overline{i}PSPsP\mu$	$P\acute{K}P\mu PIC-PrPsPjC-$
$P- P\pm PsPeCr\ C\overline{e}P\gg CrPSPePsPIPs-PeP\ddot{e}C\overline{e}PePsPIPsPiPs\ C, C\overline{H}P^{\circ}PeC, Cr$	$P\overline{i}P^{\circ}PSPeC\overline{H}P\mu P^{\circ}C, P\ddot{e}C_{,,}\ P\cdot P^{\circ}P\overline{i}PsC\overline{H}$	$P\acute{K}P\mu PIC-PrPsPjC-$
$P- P\pm PsPeCr\ P\overline{i}P\mu C\ddagger C-PSPeP\ddot{e}\ C-P\overline{I}PsPIC\ddagger PsPIP\ddot{e}PIC-PrPSP\ddot{e}C... C\overline{e}P\gg C\overline{I}C...C-PI$	$PiP\mu P\overline{i}P^{\circ}C, P\ddot{e}C_{,,}\ C...PsP\gg P\mu P\gg C-C, C-P^{\circ}P_{,,}\ C...PsP\gg P\mu C\ddagger P\ddot{e}C\overline{I}C, P\ddot{e}C,$	$P\acute{K}P\mu PIC-PrPsPjC-$
$P- P\pm PsPeCr\ C\overline{e}PeC-C\overline{H}P\ddot{e}\ C, P^{\circ}PiC-PrC\overline{e}PeC-C\overline{H}PSP\ddot{e}C... C. PeP^{\circ}PSP\ddot{e}PS$	$PjCrP\gg CHC, P\ddot{e}C_{,,}PsC\overline{H}PjPSP^{\circ}\ P\mu C\overline{H}P\ddot{e}C, P\mu PjP^{\circ}$	$P\acute{K}P\mu PIC-PrPsPjC-$

P— P±PsPeCf CíPePμP»PμC,PSPs- PjB TM CÍP·PsPIPSC— C,P° CíPíPsP»CfC±PSPsC— C,PeP°PSPëPSPë	PjC-P°P»PiC-Cl; PjC-PsPíP°C,C-Cl/C ₇ H ^o P±PrPsPjC-PsP»C-P·	PkPμPIC-PrPsPjC-
P—P°PíP°P»CHPSC- PíPsC ₇ H ^o CfC ₆ PμPSPSCÍ C,P° C ₇ H ^o PμP°PeC†C-C— Cí PjC-CíC†C- PIPIPμPrPμPSPSCÍ	P°CíC,PμPSC-Cl	PkPμPIC-PrPsPjC-

PŸC¿PíC¿C,PSC-PN₆ PíC₇H^oPëPN₆PsPj PμP·PμC,PëPjC-P±C¿ C,P° C,,PμPSPsC,,C-P±C₇H^oC,C¿

PμPsC₇H^oCfC₆PμPSPSCÍ P· P±PsPeCf C₆P»CíPSPePsPIPs-PePëC₆PePsPIPsPíPs C,C₇H^oPeC,Cí:
P°P±PrPsPjC-PSP°P»CHPSPëPN₆ P±C-P»CH (C±P°CíC,Ps).

PJ P±P°PíP°C,PsC†PμPSC,C₇H^oPsPIPsPjCí PíPsPrPIC-PN₆PSPsPjCí CíP»C-PíPsPjCí PíP»P°C†PμP±Ps-
PePsPSC,C₇H^oPsP»CHPsPíP°PSPsPjCí PeP»C-PSC-C±PSPsPjCí PrPsCíP»C-PrP¶PμPSPSC- Cí
PíP°C†C-C°PSC,C-PI P·C- P·PjC-C₆P°PSPsC₇ PíC-PíPμC₇H^oP»C-PíC-PrPμPjC-C°C₇ 625
PíP°C†C-C°PSC,C-PI PsC,C₇H^oPëPjCíPíP°P»Pë P»C-PeCíPíP°PSPSCÍ PíC₇H^oPsC,ClPíPsPj
PíPμC₇H^oC-PsPrCí PrPs 12 C,PëP¶PSC-PI C- 576 PíP°C†C-C°PSC,C-PI PíC₇H^oPsC,ClPíPsPj
PíPμC₇H^oC-PsPrCí PrPs 1 C₇H^oPsPeCí. PJ C†CH₆PsPjCí PrPsCíP»C-PrP¶PμPSPSC- 172
PíP°C†C-C°PSC,Pë, ClPeC- PsC,C₇H^oPëPjCíPíP°P»Pë P»C-PeCíPíP°PSPSCÍ PμP·PμC,PëPjC-P±PsPj
C- C,,PμPSPsC,,C-P±C₇H^oC,PsPj, P·P°PíPμC₇H^oC₆PëP»Pë 12-C,PëP¶PSPμPíPμ
P»C-PeCíPíP°PSPSCÍ, P°
230 PíP°C†C-C°PSC,C-PI, ClPeC- PsC,C₇H^oPëPjCíPíP°P»Pë P»C-PeCíPíP°PSPSCÍ
PμP·PμC,PëPjC-P±PsPj C- C,,PμPSPsC,,C-P±C₇H^oC,PsPj (Cí C,PsPjCí C±PëCíP»C- 109
PíP°C†C-C°PSC,C-PI, ClPeC- PsC,C₇H^oPëPjCíPíP°P»Pë PμP·PμC,PëPjC-P± Cí ClPePsCíC,C-
PjPsPSPsC,PμC₇H^oPíC-C— PíC₇H^oPsC,ClPíPsPj PíPμC₇H^oC₆PëC... 12 C,PëP¶PSC-PI),
P·P°PíPμC₇H^oC₆PëP»Pë PsPrPSPsC₇H^oC-C±PSPμ P»C-PeCíPíP°PSPSCÍ. PíPμ
PrPsCíP»C-PrP¶PμPSPSCÍ P±CíP»Ps C₇H^oPsP·C₇H^oPsP±P»PμPSPs PSPμ PrP»Cl
PíPsC₇H^oC-PIPS₇ClPSPSCÍ PíC₇H^oCíPí P»C-PeCíPíP°PSPSCÍ PSP° PíC₇H^oPμPrPjPμC,
PíPëPSPëPePSPμPSPSCÍ PSPμC±P°CíC,PëC... ClPíPëC%. P§P°CíC,PsC,Pë
PíPëPSPëPePSPμPSPSCÍ (95 % P°P†) PrP»Cl PeP»C-PSC-C±PSPs PíP°P¶P»PëPíPëC...
PíC-PrPíPëC%PμPSC₇ (Cí 3 C₇H^oP·Pë PíPëC%Pμ P·P° PíPμC₇H^oC...PSC₇ PjPμP¶Cí PSPsC₇H^oPë,
PíPsCíP»C-PrPsPíPSPμ) C₇H^oC-PIPS₇Cl CíPëC₇H^oPsPíP°C,PePsPíPëC... C,C₇H^oCíP°PjC-PSP°P·
CíC,P°PSPsPíPëP»Pë 4,5 % (1,9 C- 8,8) C,P° 2,7 % (1,2 C- 5,4) PrP»Cl PjPsPSPsC,PμC₇H^oPíC-C—
C,,PμPSPsC,,C-P±C₇H^oC,PsPj C,P° PsPrPSPsC±P°CíPSPsPíPs P·P°CíC,PsCíCíPíP°PSPSCÍ
PμP·PμC,PëPjC-P±Cí P· C,,PμPSPsC,,C-P±C₇H^oC,PsPj PIC-PrPíPsPIC-PrPSPs,
CíPePsC₇H^oPμPíPsPíP°PSPëPj PrP»Cl PμPeCíPíPsP·PëC†C-C— P»C-PeCíPíP°PSPSCÍ.
P°C-PrPíPsPIC-PrPSC- PíPsPeP°P·PSPëPePë C±P°CíC,PsC,Pë PíPëPSPëPePSPμPSPSCÍ PrP»Cl
C...PsP»PμC†PëCíC,PμPeC,PsPjC-C— CíC,P°PSPsPíPëP»Pë 0,6 % (0,0 C- 3,1) C,P° 1,7 % (0,6 C-
4,0) PrP»Cl PjPsPSPsC,PμC₇H^oPíC-C— C,,PμPSPsC,,C-P±C₇H^oC,PsPj C,P°
PsPrPSPsC±P°CíPSPsPíPs P·P°CíC,PsCíCíPíP°PSPSCÍ PμP·PμC,PëPjC-P±Cí P·
C,,PμPSPsC,,C-P±C₇H^oC,PsPj PIC-PrPíPsPIC-PrPSPs, CíPePsC₇H^oPμPíPsPíP°PSPëPj PSP° PrP»Cl
PμPeCíPíPsP·PëC†C-C— P»C-PeCíPíP°PSPSCÍ.

P°C-C,Pë (PIC-PePsPj PIC-Pr 6 PrPs 17 C₇H^oPsPeC-PI)

P°C-PrPsPjPs, C%Ps PíC-Pr C±P°Cí PrPsCíP»C-PrP¶PμPSPSCÍ P· CíC±P°CíC,C₇ PrC-C,PμPN₆
PIC-PePsPj PIC-Pr 6 PrPs 10 C₇H^oPsPeC-PI C-P· PíPμC,PμC₇H^oPsP·PëPíPsC,PSPsC₇
CíC-PjPμPN₆PSPsC₇ P°P±Ps PSPμCíC-PjPμPN₆PSPsC₇
PíC-PíPμC₇H^oC...PsP»PμCíC,PμC₇H^oPëPSPμPjC-C°C₇ (n = 138) CíPíPsCíC,PμC₇H^oC-PíP°P»PëCíCÍ
PíC-PrPíPëC%PμPSPSCÍ C₇H^oC-PIPS₇Cl P§P·P§ C- / P°P±Ps P§PŸPŸ (Cí 3 P°P±Ps

P±C-P»CHC€Pµ CĤP°P·C-PI PIPëC%Pµ P·P° PIPµCĤC...PSCĤ PjPµP¶Cř PSPsCĤPjPë,
 PĭPsCĤP»C-PrPsPIPSPµ) Cř 1,1 %
 (1 PĭP°C†C-C"PS,C-PI, CĤPeC- PsC,CĤPëPjCřPIP°P»Pë P»C-PeCřPIP°PSPSCĤ
 PµP·PµC,PëPjC-P±PsPj PĭPsCĤC-PIPSCĤPSPs P· 0 % Cř PĭCĤCřPĭC- PĭP»P°C†PµP±Ps.
 PµC-PrPIPëC%PµPSCĤ CĤC-PIPSC-PI PµPµPµ (Cř 10 C- P±C-P»CHC€Pµ CĤP°P·C-PI
 PIPëC%Pµ P·P° PIPµCĤC...PSCĤ PjPµP¶Cř PSPsCĤPjPë) PSPµ CĤPĭPsCĤC,PµCĤC-PĭP°P»PsCĤCĤ.
 PµCĤPs PIPëPĭP°PrPePë PjC-PsPĭP°C,C-C— PSPµ PĭPsPIC-PrPsPjP»CĤP»Pë.

P'C-PrPsPjPs, C%Ps PĭC-Pr C†P°CĤ C-PSC€PsPĭPs PrPsCĤP»C-PrP¶PµPSPSCĤ P·
 CřC†P°CĤC,CĤ PĭC-PrP»C-C,PeC-PI (PIC-PePsPj PIC-Pr 10 PrPs 17 CĤPsPeC-PI) C-P·
 PĭPµC,PµCĤPsP·PëPĭPsC,PSPsCĤ CĤC-PjPµPµPSPsCĤ
 PĭC-PĭPµCĤC...PsP»PµCĤC,PµCĤPëPSPµPjC-C"Ĥ (N = 248), CĤPĭPsCĤC,PµCĤC-PĭP°P»PëCĤCĤ
 PĭC-PrPIPëC%PµPSPSCĤ PĤP·PŸ C,P°/P°P±Ps PĤPŸPŸ (Cř 3 P°P±Ps P±C-P»CHC€Pµ CĤP°P·C-PI
 PIPëC%Pµ P·P° PIPµCĤC...PSCĤ PjPµP¶Cř PSPsCĤPjPë, PĭPsCĤP»C-PrPsPIPSPµ) Cř 3 % (4
 PĭP°C†C-C"PS,C-PI) Cř PĭCĤCřPĭC- PµP·PµC,PëPjC-P±Cř/CĤPëPjPIP°CĤC,P°C,PëPSCř
 PĭPsCĤC-PIPSCĤPSPs P· 2 % (2 PĭP°C†C-C"PS,C,Pë) Cř PĭCĤCřPĭC-
 PjPsPSPsC,PµCĤP°PĭC-C— CĤPëPjPIP°CĤC,P°C,PëPSPsPj; C†C- PĭPsPeP°P·PSPëPePë
 CĤC,P°PSPsPIPëP»Pë PIC-PrPĭPsPIC-PrPSPs 2 % (2 PĭP°C†C-C"PS,C,Pë) C- 0 %
 CĤC,PSCĤPsPIPSPs PĭC-PrPIPëC%PµPSPSCĤ PeCĤPµP°C,PëPSC,,PsCĤC,,PsPeC-PSP°P·Pë
 (PµPµPµ) Cř 10 C- P±C-P»CHC€Pµ CĤP°P·C-PI PIPëC%Pµ P·P° PIPµCĤC...PSCĤ PjPµP¶Cř
 PSPsCĤPjPë.B PµCĤPs PIPëPĭP°PrPePë PjC-PsPĭP°C,C-C— PSPµ PĭPsPIC-PrPsPjP»CĤP»Pë.

PJ C†CHPsPjCř PrPsCĤP»C-PrP¶PµPSPSC- PSPµ PĭPsCĤC-PIPSCĤPIP°P»Pë CĤC-PrPeC-CĤPSC-
 PĭPsP±C-C†PSC- CĤPµP°PeC†C-C— PSP° PĭCĤPµPĭP°CĤP°C,.

PµP°C†C-C"PS,C,Pë P· C-C€PµPjC-C†PSPsCĤ C...PIPSCĤPsP±PsCĤ CĤPµCĤC†CĤ C,P°
 PIPëPĭP°PrPeP°PjPë P"RµPŸ PI P°PSP°PjPSPµP·C-

PJ PrPsCĤP»C-PrP¶PµPSPSC- IMPROVE-IT (PrPëPI. CĤPsP·PrC-P»
 B«PµP°CĤPjP°PePsPrPëPSP°PjC-PeP°B») P· CřC†P°CĤC,CĤ 18144 PĭP°C†C-C"PS,C-PI,
 CĤPeC- PsC,CĤPëPjCřPIP°P»Pë PµP·PµC,PëPjC-P±/CĤPëPjPIP°CĤC,P°C,PëPS 10/40 PjPi (n
 = 9067; P· CĤPePëC... 6 % PĭP°C†C-C"PS,C,P°Pj P±CřP»Ps PĭC-PrPIPëC%PµPSPs PrPsP·Pë
 PµP·PµC,PëPjC-P±Cř/CĤPëPjPIP°CĤC,P°C,PëPSCř PrPs 10/80 PjPi) P°P±Ps
 CĤPëPjPIP°CĤC,P°C,PëPS 40 PjPi (n = 9077, P· PSPëC... 27 % P±CřP»Ps PĭC-PrPIPëC%PµPSPs
 PrPsP·Pë CĤPëPjPIP°CĤC,P°C,PëPSCř PrPs 80 PjPi), PĭCĤPsC,,C-P»C- P±PµP·PĭPµPePë
 P±CřP»Pë PsPrPSP°PePsPIPëPjPë PĭCĤPsC,CĤPĭPsPj CĤPµCĤPµPrPSCĤPsPĭPs
 PĭPµCĤC-PsPrCř CĤPĭPsCĤC,PµCĤPµP¶PµPSPSCĤ 6 CĤPsPeC-PI. PŞP°CĤC,PsC,P°
 PĭCĤPëPĭPëPSPµPSPSCĤ P»C-PeCřPIP°PSPSCĤ C†PµCĤPµP· PSPµP±P°P¶P°PSC-
 CĤPIPëC%P° CĤC,P°PSPsPIPëP»P° 10,6 % Cř PĭP°C†C-C"PS,C-PI, CĤPeC-
 PsC,CĤPëPjCřPIP°P»Pë PµP·PµC,PëPjC-P±/CĤPëPjPIP°CĤC,P°C,PëPS, C- 10,1 % Cř
 PĭP°C†C-C"PS,C-PI, CĤPeC- PsC,CĤPëPjCřPIP°P»Pë CĤPëPjPIP°CĤC,P°C,PëPS. PŞP°CĤC,PsC,P°
 PjC-PsPĭP°C,C-C— CĤC,P°PSPsPIPëP»P° 0,2 % PrP»CĤ
 PµP·PµC,PëPjC-P±Cř/CĤPëPjPIP°CĤC,P°C,PëPSCř C,P° 0,1 % PrP»CĤ
 CĤPëPjPIP°CĤC,P°C,PëPSCř, PrPµ PjC-PsPĭP°C,C-CĤ PIPëP·PSP°C†P°P»P°CĤCĤ CĤPe
 PjBĤ™ CĤP·PsPIP° CĤP»P°P±PeC-CĤC,CH P°P±Ps P±C-P»CH
 PSPµP·CĤPsP·CřPjC-P»PsC— PµC,C-PsP»PsPĭC-C— P· CĤC-PIPSPµPj
 PeCĤPµP°C,PëPSPeC-PSP°P·Pë PI CĤPëCĤPsPIP°C,C†C- PeCĤPsPIC- Cř 10 P°P±Ps
 P±C-P»CHC€Pµ CĤP°P·C-PI PIPëC%Pµ P·P° P'PµPĤ P°P±Ps P· PrPIPSPjP°
 PĭPsCĤP»C-PrPsPIPSPëPjPë CĤPµP·CřP»CHC,P°C,P°PjPë PeCĤPµP°C,PëPSPeC-PSP°P·Pë Cř 5

PePsPjP±C-PSP°C†C-C— P· CÍPëPjPIP°CÍC,P°C,PëPSPsPj PíPsCĤC-PIPSCLIPSPs P· 0,6 %
 PíP°C†C-C"PSCL,C-PI, CĤPeC- PsC,CĤPëPjCÍPIP°P»Pë PíP»P°C†PμP±Ps (PrPëPI. CĤPsP·PrC-P»
 B«PĥCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCÍPIP°PSPSCĤB»). PJ C†CHPsPjCÍ
 PrPsCÍP»C-PrP¶PμPSPSC- PSPμ P±CÍP»Ps CÍC,P°C,PëCÍC,PëC±PSPs
 PrPsCÍC,PsPIC-CĤPSPsPiPs P·P±C-P»CHC€PμPSPSCĤ C±P°CÍC,PsC,Pë PíPsPíPμCĤPμPrPSCĤPs
 PIPëP·PSP°C†PμPSPëC... PíPsP±C-C±PSPëC... CĤPμP°PeC†C-PNë, PIPeP»CĤC±P°CĤC±Pë CĤP°Pe
 (9,4 % PrP»CĤ PμP·PμC,PëPjC-P±CÍ PI PePsPjP±C-PSP°C†C-C— P· CÍPëPjPIP°CÍC,P°C,PëPSPsPj,
 9,5 % PrP»CĤ PíP»P°C†PμP±Ps), PíPμPíP°C,PëC,, C...PsP»PμC†PëCÍC,PμPeC,PsPjC-CĤ
 P°P±Ps CÍCÍPeP»P°PrPSPμPSPSCĤ P¶PsPIC±PSPëC... PeP°PjPμPSC-PI P°P±Ps
 PíP°PSPeCĤPμP°C,PëC,CÍ.

P°PSC- P»P°P±PsCĤP°C,PsCĤPSPëC... PrPsCÍP»C-PrP¶PμPSCĤ

PμC-Pr C±P°CÍ PePsPSC,CĤPsP»CHPsPIP°PSPëC... PeP»C-PSC-C±PSPëC...
 PrPsCÍP»C-PrP¶PμPSCĤ PjPsPSPsC,PμCĤP°PíC-C— PeP»C-PSC-C±PSPs P·PSP°C†CÍC%Pμ
 PíC-PrPIPëC%PμPSPSCĤ CÍPëCĤPsPIP°C,PePsPIPëC... C,CĤP°PSCÍP°PjC-PSP°P· (PĥP·Pÿ
 C,P°/P°P±Ps PĥPÿPÿ CÍ 3 P°P±Ps P±C-P»CHC€Pμ CĤP°P·C-PI PIPëC%Pμ P·P° P'PĥPĥ) P±CÍP»Ps
 PíPsPrC-P±PSPëPj CÍ PμP·PμC,PëPjC-P±CÍ (0,5 %) C,P° PíP»P°C†PμP±Ps (0,3 %). PJ
 PrPsCÍP»C-PrP¶PμPSPSCĤC... PePsPjP±C-PSPsPIP°PSPsC— C,PμCĤP°PíC-C— C±P°CÍC,PsC,P°
 PíPsCĤPIPë CÍC,P°PSPsPIPëP»P° 1,3 % CÍ PíP°C†C-C"PSCL,C-PI, CĤPeC- CÍCÍPíCÍC,PSCHPs
 PíCĤPëPNëPjP°P»Pë PμP·PμC,PëPjC-P± C,P° CÍC,P°C,PëPS, C,P° 0,4 % CÍ PíP°C†C-C"PSCL,C-PI,
 CĤPeC- PíCĤPëPNëPjP°P»Pë C,C-P»CHPePë CÍC,P°C,PëPS. PμPsPrC-P±PSPμ
 PíC-PrPIPëC%PμPSPSCĤ P·P°P·PIPëC±P°PNë P±CÍP»Ps P±PμP·CÍPëPjPíC,PsPjPSPμ, PSPμ
 PíPsPíPĤ™ CĤP·P°PSPμ P· C...PsP»PμCÍC,P°P·PsPj, P° PíPsPeP°P·PSPëPePë
 PíPsPIPμCĤC,P°P»PëCÍCĤ PrPs PíPsC±P°C,PePsPIPsPiPs CĤC-PIPSCL PíC-CÍP»CĤ
 PIC-PrPjC-PSPë C,PμCĤP°PíC-C— P°P±Ps PíCĤPë PíCĤPsPrPsPIP¶PμPSPSC-
 P»C-PeCÍPIP°PSPSCĤ.

PJ PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PμPSPSCĤC... CÍPíPsCÍC,PμCĤC-PíP°P»PsCÍCĤ
 PíC-PrPIPëC%PμPSPSCĤ PĥPαPĥ CÍ 10 P°P±Ps P±C-P»CHC€Pμ CĤP°P·C-PI PIPëC%Pμ P·P°
 P'PĥPĥ CÍ 4 C-P· 1674 PíP°C†C-C"PSCL,C-PI (0,2 %), CĤPeC- PíCĤPëPNëPjP°P»Pë C,C-P»CHPePë
 PμP·PμC,PëPjC-P±, PíPsCĤC-PIPSCLIPSPs P· 1 P· 786 PíP°C†C-C"PSCL,C-PI
 (0,1 %), CĤPeC- PíCĤPëPNëPjP°P»Pë PíP»P°C†PμP±Ps, C,P° CÍ 1 P· 917 PíP°C†C-C"PSCL,C-PI (0,1
 %), CĤPeC- PíCĤPëPNëPjP°P»Pë PμP·PμC,PëPjC-P± CÍCÍPíCÍC,PSCHPs P·C-
 CÍC,P°C,PëPSPsPj, PíPsCĤC-PIPSCLIPSPs P· 4 P· 929 PíP°C†C-C"PSCL,C-PI (0,4 %), CĤPeC-
 PíCĤPëPNëPjP°P»Pë C,C-P»CHPePë CÍC,P°C,PëPS. PĥPμ P±CÍP»Ps PíPμCĤPμPIP°PíPë CÍ
 PíPsCĤPIC- PjC-PsPíP°C,C-C— P°P±Ps CĤP°P±PrPsPjC-PsP»C-P·CÍ PíCĤPë PíCĤPëPNëPsPjC-
 PμP·PμC,PëPjC-P±CÍ PíPsCĤC-PIPSCLIPSPs P· PIC-PrPíPsPIC-PrPSPsCĤ PíCĤCÍPíPsCĤ
 PePsPSC,CĤPsP»CĤ (PíP»P°C†PμP±Ps P°P±Ps C,C-P»CHPePë CÍC,P°C,PëPS).

PμPsPIC-PrPsPjP»PμPSPSCĤ PíCĤPs PíC-PrPsP·CĤCĤPIP°PSC- PíPsP±C-C±PSC-
 CĤPμP°PeC†C-C—

P"CÍP¶Pμ PIP°P¶P»PëPIPs PíPsPIC-PrPsPjP»CĤC,Pë PíCĤPs PíC-PrPsP·CĤCĤPIP°PSC-
 PíPsP±C-C±PSC- CĤPμP°PeC†C-C—, C%Ps PIPëPSPëPeP»Pë PíC-CÍP»CĤ
 CĤPμC"CÍC,CĤP°C†C-C— PíCĤPμPíP°CĤP°C,CÍ. PíPμ PrPsP·PIPsP»CĤC"
 P·PrC-PNëCÍPSCĤPIP°C,Pë PíPsCÍC,C-PNëPSPëPNë PjPsPSC-C,PsCĤPëPSPi
 CÍPíC-PIPIC-PrPSPsC€PμPSPSCĤ B«PePsCĤPëCÍC,CH/CĤPëP·PëPeB»
 P·P°CÍC,PsCÍCÍPIP°PSPSCĤ C†CHPsPiPs P»C-PeP°CĤCÍCHPePsPiPs P·P°CÍPsP±CÍ. PĥPë
 P·PIPμCĤC,P°C"PjPsCÍCĤ PrPs PíCĤP°C†C-PIPSPëPeC-PI CÍPëCÍC,PμPjPë PsC...PsCĤPsPSPë

$P \cdot PrPsC\bar{H}PsPI\bar{B}\bar{H}^{\text{TM}}C\bar{I}P \cdot \bar{P}\bar{i}C\bar{H}PsC...P^{\circ}PSPSC\bar{I}Pj \bar{P}\bar{i}PsPIC-PrPsPjP \gg C\bar{I}C, P\bar{e} \bar{P}\bar{i}C\bar{H}Ps P \pm C\acute{r}PrCH\bar{C}-C\bar{I}P\bar{e}C- \bar{P}\bar{i}PsP \pm C-C\ddagger PSC- C\bar{H}P_{\mu}P^{\circ}PeC\ddagger C-C- P \cdot P^{\circ} PrPs\bar{P}\bar{i}PsPjPs\bar{P}\bar{i}PsC\bar{H}PSP^{\circ}C\ddagger C-PsPSP^{\circ}P \gg CH\bar{P}SPsC- C\acute{r}P\bar{e}C\acute{r}C, P_{\mu}PjP\bar{e} \bar{P}\bar{i}PsPIC-PrPsPjP \gg P_{\mu}PSCH\bar{C}.$

$P\check{y}P_{\mu}C\bar{H}PjC-PS \bar{P}\bar{i}C\bar{H}P\bar{e}PrP^{\circ}C, PSPsC\acute{r}C, C-.$ 3 $C\bar{H}PsPeP\bar{e}.$

$PjPjPsPIP\bar{e} P \cdot P \pm P_{\mu}C\bar{H}C-PiP^{\circ}PSPSC\bar{I}.$

$P-P \pm P_{\mu}C\bar{H}C-PiP^{\circ}C, P\bar{e} \bar{P}\bar{i}C\bar{H}P\bar{e} C, P_{\mu}PjP\bar{i}P_{\mu}C\bar{H}P^{\circ}C, C\acute{r}C\bar{H}C- PSP_{\mu} PIP\bar{e}C\%P_{\mu} 30 B^{\circ}P\check{y}.$
 $P-P \pm P_{\mu}C\bar{H}C-PiP^{\circ}C, P\bar{e} PI PsC\bar{H}P\bar{e}PiC-PSP^{\circ}P \gg CH\bar{P}SC-PN_{\bar{e}} C\acute{r}P\bar{i}P^{\circ}PePsPIC\ddagger C- C\acute{r}P \cdot P^{\circ}C...P\bar{e}C\%P_{\mu}PSPsPjC\acute{r} PIC-Pr PIPsP \gg PsPiP\bar{e} PjC-C\acute{r}C\ddagger C-.$

$PjP\bar{i}P^{\circ}PePsPIP\bar{e}P^{\circ}.$

$P_{\mu}Ps 10 C, P^{\circ}P \pm P \gg P_{\mu}C, PsPe PI P \pm P \gg C-C\acute{r}C, P_{\mu}C\bar{H}C-; \bar{P}\bar{i}Ps 3 P^{\circ}P \pm Ps \bar{P}\bar{i}Ps 6, P^{\circ}P \pm Ps \bar{P}\bar{i}Ps 9 P \pm P \gg C-C\acute{r}C, P_{\mu}C\bar{H}C-PI C\acute{r} PeP^{\circ}C\bar{H}C, PsPSPSC-PN_{\bar{e}} \bar{P}\bar{i}P^{\circ}C\ddagger C\ddagger C-.$

$P_{\bar{L}}P^{\circ}C, P_{\mu}PiPsC\bar{H}C-C\bar{I} PIC-PrP\bar{i}C\acute{r}C\acute{r}PeC\acute{r}.$ $P-P^{\circ} C\bar{H}P_{\mu}C\ddagger P_{\mu}P\bar{i}C, PsPj.$

$P'P\bar{e}C\bar{H}PsP \pm PSP\bar{e}Pe.$

$P-P_{\bar{h}}P\check{y} P \propto P^{\circ}C\bar{H}PjP^{\circ}C\ddagger P_{\mu}PIC, P\bar{e}C\ddagger PSP\bar{e}PN_{\bar{e}} P \cdot P^{\circ}PIP_sPr P \bullet P''P\ddagger P\check{y}.$

$P_{\bar{H}}C-C\acute{r}C\ddagger P_{\mu}P \cdot PSP^{\circ}C...PsPrP\bar{i}P_{\mu}PSPSC\bar{I} PIP\bar{e}C\bar{H}PsP \pm PSP\bar{e}PeP^{\circ} C, P^{\circ} P^{\circ}PrC\bar{H}P_{\mu}C\acute{r}P^{\circ}PjC-C\acute{r}C\ddagger C\bar{I} \bar{P}\bar{i}C\bar{H}PsPIP^{\circ}PrP\bar{i}P_{\mu}PSPSC\bar{I} PN_{\bar{e}}PsPiPs PrC-C\bar{I}P \gg CH\bar{P}SPsC\acute{r}C, C-.$

1165, Pj. $P'C\acute{r}PrP^{\circ}PiP_{\mu}C\bar{e}C,, PIC\acute{r}P \gg.$ $P'P_{\mu}PeP_{\mu}PSCH\bar{C}, P_{\mu}P \gg PrC-, 118-120, PjPiPsC\bar{H}C\%P\bar{e}PSP^{\circ}.$