

РμРμСҖРөPSPPrPsPiСҖРөР» вҖ“ C-PSPiC-P±C-C,PsСҖ C,,PμСҖPjPμPSC,Cr, CҖPePөP№
PiPμСҖPμC,PIPsСҖСҖC” P°PSPiC-PsC,PμPSP·PөPS P† PI P°PSPiC-PsC,PμPSP·PөPS P†P† (PҖPμPα).
PμРμСҖPμC,PIPsСҖСҖPIP°P»СҖPSPөP№ C,,PμСҖPjPμPSC, P°P±Ps PeC-PSP°P·P° – C†Pμ
PμPeP·PsPiPμPiC,PөPrP°P·P°, CҖPeP° СҖPsP±PөC,СҖ PjPsP¶P»PөPIPөPj
PiPμСҖPμC,PIPsСҖPμPSPSCҖ P°PSPiC-PsC,PμPSP·PөPSCr P† Cr
CҖCҖPrPөPSPsP·PICrP¶CҖPIP°P»СҖPSPөP№ P°PSPiC-PsC,PμPSP·PөPS P†P†, P° C,P°PePsP¶
CҖPiСҖPөCҖPөPSCҖCҖ” СҖPsP·PiP°Pr PIP°P·PsPrPөP»P°C,P°C,PsСҖP° P±СҖP°PrPөPeC-PSC-PSCr
PrPs PSPμP°PeC,PөPIPSPsPiPs PiPμPiC,P°PiPμPiC,PөPrCҖ. P†PSPiC-P±CҖPIP°PSPSCҖ PҖPμPα
PiСҖPөP·PIPsPrPөC,СҖ PrPs P·PjPμPSC€PμPSPSCҖ PePsPSC†PμPSC,СҖP°C†C-C—
P°PSPiC-PsC,PμPSP·PөPSCr P†P† Cr PiP»P°P·PjC- PeСҖPsPIC-, C°Ps PiC-PrPIPөC°CrC”
P°PeC,PөPIPSC-CҖC,СҖ СҖPμPSC-PSCr Cr PiP»P°P·PjC- PeСҖPsPIC- (P·P°
PjPμC...P°PSC-P·PjPsPj P·PIPsСҖPsC,PSPsPiPs P·PiBҖ™ CҖP·PeCr) C,P° P·PSPөP¶CҖC”
CҖPμPeСҖPμC†C-CҖ P°P»СҖPPrPsCҖC,PμСҖPsPSCr. PҖCҖPeC-P»СҖPePө PҖPμPα
C-PSP°PeC,PөPICrC” P±СҖP°PrPөPeC-PSC-PS, C-PSPiC-P±CҖPIP°PSPSCҖ PҖPμPα C,P°PePsP¶
PiСҖPөP·PIPsPrPөC,СҖ PrPs PiC-PrPIPөC°PμPSPSCҖ P°PeC,PөPIPSPsCҖC,C-
C†PөСҖPeCҖP»СҖCҖCҖPsC— C,P° PjC-CҖC†PμPIPsC— PeP°P»C-PeСҖPμC—PS-
PeC-PSC-PSPsPIPsC— CҖPөCҖC,PμPjPө (C-, C,P°PePөPj CҖPөPSPsPj, C,P°PePsP¶
PiСҖPөP·PIPsPrPөC,СҖ PrPs P°PeC,PөPIP°C†C-C— CҖPөCҖC,PμPjPө
PiСҖPсCҖC,P°PiP»P°PSPPrPөPSC-PI). PҖPsP¶P»PөPIPs, C°Ps C†PμP№ PjPμC...P°PSC-P·Pj PrC-C—
P·CҖPjPsPIP»СҖC” P·PSPөP¶PμPSPSCҖ P°СҖC,PμСҖC-P°P»СҖPSPsPiPs C,PөCҖPeCr
C-PSPiC-P±C-C,PsСҖP°PjPө PҖPμPα C- CҖP°CҖC,PePsPIPs PIC-PrPiPsPIC-PrP°C” P·P°
PiPsCҖPICr PrPμCҖPePөC... PiPsP±C-CҖPSPөC... СҖPμP°PeC†C-P№ (PSP°PiСҖPөPeP»P°Pr,
PeP°C€P»СҖ).

РμРμСҖРөPSPPrPsPiСҖРөР» PrC-C” CҖPμСҖPμP· CҖPIC-P№ P°PeC,PөPIPSPөP№
PjPμC,P°P±PsP»C-C, вҖ“ PiPμСҖРөPSPPrPsPiСҖРөР»P°C,. P†PSC€C- PjPμC,P°P±PsP»C-C,Pө PSPμ
PrPμPjPsPSCҖC,СҖCҖCҖC,СҖ P°PeC,PөPIPSPsCҖC,C- PI C-PSPiC-P±CҖPIP°PSPSC- PҖPμPα *in vitro*.

PμP»C-PSC-CҖPSP° PμC,,PμPeC,PөPIPSC-CҖC,СҖ C,P° P±PμP·PiPμPeP°

PҖСҖC,PμСҖC-P°P»СҖPSP° PiC-PiPμСҖC,PμPSP·C-CҖ

РμРμСҖРөPSPPrPsPiСҖРөР» PμC,,PμPeC,PөPIPSPs P·PSPөP¶CҖC” P°СҖC,PμСҖC-P°P»СҖPSPөP№
C,PөCҖPe PiСҖPө PICҖC-C... CҖC,CҖPiPμPSCҖC... P°СҖC,PμСҖC-P°P»СҖPSPsC—
PiC-PiPμСҖC,PμPSP·C-C—: P»PμPiPePsPjCҖ, PiPsPjC-СҖPSPsPjCҖ C,P° C,CҖP¶PePsPjCҖ;
P·PSPөP¶PμPSPSCҖ CҖPөCҖC,PsP»C-CҖPSPsPiPs C,P° PrC-P°CҖC,PsP»C-CҖPSPsPiPs
P°СҖC,PμСҖC-P°P»СҖPSPsPiPs C,PөCҖPeCr CҖPiPsCҖC,PμСҖC-PiP°C”C,СҖCҖCҖC Cr
C...PIPsСҖPsPiPs CҖPe Cr PiPsP»PsP¶PμPSPSC- P»PμP¶P°CҖPө, C,P°Pe C- Cr
PiPsP»PsP¶PμPSPSC- CҖC,PsCҖCҖPө.

РμРμСҖРөPSPPrPsPiСҖРөР» P·PjPμPSC€CҖC” PsPiC-СҖ PiPμСҖPөC,,PμСҖPөCҖPSPөC...
CҖCҖPrPөPS, C°Ps PiСҖPөP·PIPsPrPөC,СҖ PrPs P·PSPөP¶PμPSPSCҖ
P°СҖC,PμСҖC-P°P»СҖPSPsPiPs C,PөCҖPeCr. P’PSP°CҖP»C-PrPsPe C†СҖPsPiPs
P·P±C-P»СҖC€CҖC”C,СҖCҖCҖC PiPμСҖPөC,,PμСҖPөCҖPSPөP№ PeСҖPsPIPsC,C-Pe P±PμP·
PIPiP»PөPICr PSP° CҖP°CҖC,PsC,Cr CҖPμСҖC†PμPIPөC... CҖPePsСҖPsC†PμPSCҖ.

P—P°P·PIPөCҖP°P№ P·P±C-P»СҖC€CҖC”C,СҖCҖCҖC C- PSPөСҖPePsPIPөP№ PeСҖPsPIPsC,C-Pe,
C,PsPrC- CҖPe C€PIPөPrPeC-CҖC,СҖ PeP»CҖP±PsCҖPePsPIPsC— C,,C-P»СҖC,СҖP°C†C-C—
(PөPҖPα) P·P°P·PIPөCҖP°P№ PSPμ P·PjC-PSCҖC”C,СҖCҖCҖC.

PҖP°PeCҖPөPjP°P»СҖPSPөP№ P°PSC,PөPiC-PiPμСҖC,PμPSP·PөPIPSPөP№ PμC,,PμPeC,

СҫҫPsP·PIPëPIP°С"С,СҫСГҫСҫ С±PµСҫPµP· 4Бҫ"6 PiPsPrPëPS PiC-СГҫP»СҫС
PsPrPSPsPeСҫP°С, PSPsPiPs PiСҫPëPNëPsPjCр С, P° P·P±PµСҫC-PiP°С"С,СҫСГҫСҫ
C%PsPSP°PNëPjPµPSC€Pµ 24 PiPsPrPëPSPë: СГҫPiC-PIPIC-PrPSPsC€PµPSPSCСҫ Pÿ/P
(PjC-PSC-PjP°P»СҫPSP° PµC,,PµPeC,PëPIPSC-СГҫС,СҫP/PjP°PeСГҫPëPjP°P»СҫPSP°
PµC,,PµPeC,PëPIPSC-СГҫС,Сҫ СрPiСҫPсPrPsPIP¶ PrPsP±Pë) PiPµСҫPëPSPPrPsPiСҫPëP»Cр
СГҫС,P°PSPsPIPëC,Сҫ
87Бҫ"100 %.

PҫСҫC,PµСҫC-P°P»СҫPSPëPNë C,PëСГҫPe P·PSPëP¶CрC"С,СҫСГҫСҫ С€PIPëPrPePs. Pj
PiP°CҫC-C"PSC,C-PI, СҫPeC- PIC-PrPiPsPIC-P»Pë PSP° P»C-PeCрPIP°PSPSCСҫ,
PSPsСҫPjP°P»C-P°CҫC-Сҫ P°СҫC,PµСҫC-P°P»СҫPSPsPiPs C,PëСГҫPeCр
PIC-PrP±CрPIP°С"С,СҫСГҫСҫ PiСҫPсC,СҫPiPsPj PjC-СГҫСҫCҫCҫ C,P°
P·P±PµСҫC-PiP°С"С,СҫСГҫСҫ P±PµP· C,P°С...C-C,,C-P»P°PeCГҫC-C—.

Pj СҫP°P·C- PiСҫPëPiPëPSPµPSPSCСҫ P·P°СГҫС,PsCГҫCрPIP°PSPSCСҫ PiPµСҫPëPSPPrPsPiСҫPëP»Cр
PµC,,PµPeC,Cр PIC-PrPjC-PSPë PSPµ PIPëPSPëPeP°С".

PµPµСҫPëPSPPrPsPiСҫPëP» P·PjPµPSC€CрC" PiC-PiPµСҫC,СҫPсC,,C-Сҫ P»C-PIPsPiPs
С€P»CрPSPsC±PeP°.

PлP»C-PSC-C±PSC- PrPsCГҫP»C-PrP¶PµPSPSCСҫ PrPsPIPµP»Pë, C%Ps PiPµСҫPëPSPPrPsPiСҫPëP»
PjP°С" СГҫCрPrPëPSPsСҫPсP·C€PëСҫСҫPIP°P»СҫPSC- PIP»P°СГҫС,PëPIPsCГҫС,C-. P'С-PS
PiPsPeСҫP°С%СГҫС" PµP»P°СГҫС,PëC±PSC-СГҫС,Сҫ PIPµP»PëPePëC... P°СҫC,PµСҫC-PNë C,P°
P·PjPµPSC€CрC" СГҫPiC-PIPIC-PrPSPsC€PµPSPSCСҫ C,PsPIC%PëPSPë СГҫС,C-PSPePë PrPs
PiСҫPсCГҫPIC-C,Cр СГҫCрPrPëPSPë PrP»Cҫ PjP°P»PëC... P°СҫC,PµСҫC-PNë.

P"PsPrP°С,PePsPIP° C,PµСҫP°PiC-Сҫ P· C,C-P°P·PëPrPSPëPj PrC-СрСҫPµC,PëPePsPj
PIPëCҫPIP»CҫC" P°PrPëC,PëPIPSPëPNë СГҫPëPSPµСҫPiC-C±PSPëPNë PµC,,PµPeC.,
PлPsPjP±C-PSP°CҫC-Сҫ C-PSPiC-P±C-C,PsСҫP° PҫPµPα C,P° C,C-P°P·PëPrPSPsPiPs
PrC-СрСҫPµC,PëPeP° C,P°PePsP¶ P·PjPµPSC€CрC" СҫPëP·PëPe PiC-PiPsPeP°P»C-C"PjC-C—,
СГҫPiСҫPëC±PëPSPµPSPsC— PrC-СрСҫPµC,PëPePsPj.

PÿPµСҫC±PµPIP° PSPµPrPsCГҫС,P°С,PSC-СГҫС,Сҫ

PµPµСҫPëPSPPrPsPiСҫPëP» PiPsP»PµPiC€CрC" СҫPсP±PsC,Cр СГҫPµСҫCҫCҫ С€P»CҫC...PsPj
P·PjPµPSC€PµPSPSCСҫ PiPµСҫPµPr- C,P° PiC-СГҫP»CҫPSP°PIP°PSC,P°P¶PµPSPSCСҫ PSP°
СГҫPµСҫC±Pµ.

P"PsCГҫP»C-PrP¶PµPSPSCСҫ P·P° CрC±P°СГҫС,Сҫ PiP°CҫC-C"PSC,C-PI C-P· СГҫPµСҫC±PµPIPsСҫ
PSPµPrPsCГҫС,P°С,PSC-СГҫС,Сҫ PiСҫPсPсPrPµPjPsPSCГҫС,СҫCрPIP°P»Pë:

- P·PjPµPSC€PµPSPSCСҫ C,PëСГҫPeCр PSP°PiPsPIPSPµPSPSCСҫ PiСҫP°PIPsPiPs C,P°
P»C-PIPsPiPs С€P»CрPSPsC±PeC-PI;
- P·PSPëP¶PµPSPSCСҫ СГҫPëCГҫС,PµPjPSPsPiPs PiPµСҫPëC,,PµСҫPëC±PSPsPiPs
PsPiPsСҫCр;
- P·P±C-P»СҫC€PµPSPSCСҫ СГҫPµСҫC±PµPIPsPiPs C-PSPPrPµPeCГҫCр C,P°
PiPsPeСҫP°С%PµPSPSCСҫ СГҫPµСҫC±PµPIPsPiPs PIPëPePëPrCр;
- P·P±C-P»СҫC€PµPSPSCСҫ СҫPµPiC-PsPSP°P»СҫPSPsPiPs PeСҫPсPIPsC,PsPeCр Cр
PjБҫ™ СҫP·P°С... PjC-PsPeP°СҫPrP°.

PJ PiC7PsCtPmC7C- PiPsC7C-PIPSC7P»CH7PSPeC... PrPsC7P»C-PrP7PmPSC7 PiPmC7C7Pm
PiC7P7P»PSP°C7PmPSPSC7 2 PjPi PiPmC7P7PSPPrPsPiC7P7P»C7 PiP°C7C-C7PSC,P°Pj C-P·
C7PmC7C7PmPIPSC7 PSPmPrPsC7C,P°C,PSC-C7C,C7 P»PmPiPePsPiPs C,P°
C7PmC7PmPrPSC7PsPiPs C7C,C7PiPmPSC7 C,C7P7PePsC7C,C- PSPm P±C7P»Ps
PiPsPiB7™ C7P·P°PSPs P· P±C7PrC7-C7PeP7P PrPsC7C,PsPIC-C7PSP7Pj P·PSP7P7PmPSPSC7Pj
P°C7C,PmC7C-P°P»CH7PSPsPiPs C,P7C7PeC7 PiPsC7C-PIPSC7PSPs P· C,P°PeP7Pj PiC7P7P
P·P°C7C,PsC7C7PIP°PSPSC- PiP»P°C7PmP±Ps.

PmP°C7C-C7PSC,P7P· C7PmC7PmP±C7PsPIP°C7PeC7P»C7C7PSP7PjP7P
P·P°C...PIPSC7C7PIP°PSPSC7PjP7P PI P°PSP°PjPSPmP·C-

P7C7P»CH7C,P7C7PmPSC,C7PsPIPm C-PSC,PmC7PSP°C7C-PsPSP°P»CH7PSPm PiPsPrPIC-PM2PSPm
C7P»C-PiPm C7P°PSPPrPsPjC-P·PsPIP°PSPm PiP»P°C7PmP±Ps-PePsPSC,C7PsP»CH7PsPIP°PSPm
PrPsC7P»C-PrP7PmPSPSC7 PROGRESS PIP7P·PSP°C7P7P»Ps PiPmC7PmPIP°PiP7P 4-
C7C-C7PSPsPiPs P»C-PeC7PIP°PSPSC7 PiPmC7P7PSPPrPsPiC7P7P»PsPj (C7Pe
PjPsPSPsC,PmC7P°PiC-C— P°P±Ps C7 PePsPjP±C-PSP°C7C-C— P· C-PSPPr°PiP°PjC-PrPsPj)
C%°PsPrPs P·P°PiPsP±C-PiP°PSPSC7 PiPsPIC,PsC7PSPsPjC7 C-PSC7C7P»CH7C,C7 PI
PiP°C7C-C7PSC,C-PI C-P· C7PmC7PmP±C7PsPIP°C7PeC7P»C7C7PSP7PjP7P
P·P°C...PIPSC7C7PIP°PSPSC7PjP7P PI P°PSP°PjPSPmP·C-

P7P°PePsP7 PIC-PrP·PSP°C7P°P»PsC7C7 PrPsC7C,PsPIC-C7PSPm P·PSP7P7PmPSPSC7
C7P7P·P7PeC7 PIP7PSP7PePSPmPSPSC7:

- B P»PmC,P°P»CH7PSPsPiPs P°P±Ps C-PSPIP°P»C-PrP7P·C7C7C7PsPiPs C-PSC7C7P»CH7C,C7;
- B P·P°PiP°P»CH7PSPsC— PeC-P»CH7PePsC7C,C- P·PSP°C7PSP7C...
PeP°C7PrC-PsPIP°C7PeC7P»C7C7PSP7C... PiPsPrC-PM2, C7PeC- C7PeP»P°PrP°C7C,CH7C7C7 P·
PeP°C7PrC-PsPIP°C7PeC7P»C7C7PSPsC— C7PjPmC7C,C-, PSPmP»PmC,P°P»CH7PSPsPiPs
C-PSC,,P°C7PeC,C7 PjC-PsPeP°C7PrP° C,P° PSPmP»PmC,P°P»CH7PSPsPiPs C-PSC7C7P»CH7C,C7;
- B PrPmPjPmPSC7C-C—, C%°Ps PIP7PSP7PeP°C7 PIPSP°C7P»C-PrPsPe C-PSC7C7P»CH7C,C7 C,P°
C,C7P7PeP7C... PiPsC7C7C7PmPSC7 PePsPiPSC-C,P7PIPSPsC— C,,C7PSPeC7C-C—, C%°Ps
PIP7PSP7PeP°C7C,CH7 C7PSP°C7P»C-PrPsPe C-PSC7C7P»CH7C,C7;
- B P·PSP°C7PSP7C... PePsC7PsPSP°C7PSP7C... PiPsPrC-PM2, PIPeP»C7C7P°C7C7P7P
PSPmP»PmC,P°P»CH7PSP7PM2 C-PSC,,P°C7PeC, PjC-PsPeP°C7PrP° P°P±Ps P»PmC,P°P»CH7PSP7PM2
PSP°C7P»C-PrPsPe, C%°Ps PIC-PrP±C7PIC7C7 PIPSP°C7P»C-PrPsPe C-C7PmPjC-C7PSPsC—
C...PIPSC7PsP±P7 C7PmC7C7C7 (P7P7P7).

P7C- C,PmC7P°PiPmPIC,P7C7PSC- PiPmC7PmPIP°PiP7P C7PiPsC7C,PmC7C-PiP°P»P7C7C7 C7
PiP°C7C-C7PSC,C-PI PSPmP·P°P»PmP7PSPs PIC-Pr
PSP°C7PIPSPsC7C,C-/PIC-PrC7C7C,PSPsC7C,C- P°C7C,PmC7C-P°P»CH7PSPsC—
PiC-PiPmC7C,PmPSP·C-C—, PSPmP·P°P»PmP7PSPs PIC-Pr PIC-PeC7, C7C,P°C,C-, C,P7PiC7
C-PSC7C7P»CH7C,C7 P°P±Ps PSP°C7PIPSPsC7C,C- C7C7PeC7PsPiPs PrC-P°P±PmC,C7.
P PmP·C7P»CH7C,P°P,Pe PrPsC7P»C-PrP7PmPSPSC7 PROGRESS PiPsPeP°P·P°P»P7, C%°Ps
PiC-C7P»C7 5-C7C-C7PSPsPiPs P»C-PeC7PIP°PSPSC7 PjPsP7PSP° C7PSP7PePSC7C,P7
PIP7PSP7PePSPmPSPSC7 PsPrPSPsPiPs C-PSC7C7P»CH7C,C7 C7PmC7PmPr PePsP7PSP7C... 23
PiP°C7C-C7PSC,C-PI C,P° PsPrPSPsPiPs C7PmC7PmP°PSPsPiPs
PeP°C7PrC-PsPIP°C7PeC7P»C7C7PSPsPiPs C7C7PeP»P°PrPSPmPSPSC7 C7PmC7PmPr
PePsP7PSP7C... 18 PiP°C7C-C7PSC,C-PI.

PmP°C7C-C7PSC,P7P·C- C7C,P°P±C-P»CH7PSPsC7 C-C7PmPjC-C7PSPsC7 C...PIPSC7PsP±PsC7

СГРμСГС+СЦ (P+PГPŸ)

PμPsPIC-PrPsPjP»CЦP»PsCГCЦ PиCГPs PjC-P¶PSP°CГPsPrPSPμ
PjCр»CГC,PeC+PμPSC,CГPsPIPμ CГP°PSPPrPsPjC-P·PsPIP°PSPμ PиPsPrPIC-PNεPSPμ CГP»C-PиPμ
PиP»P°C+PμP±Ps-PePsPSC,CГPsP»CГPsPIP°PSPμ PeP»C-PSC-C+PSPμ PrPsCГP»C-PrP¶PμPSPSCЦ
EUROPA, CЦPePμ C,CГPëPIP°P»Ps 4 CГPsPePë. Pj PrPsCГP»C-PrP¶PμPSPSC- P±CГP°P»Pë
CрC±P°CГC,CH PиP°C+C-C”PSC,Pë P· PиC-PrC,PIPμCГPrP¶PμPSPsCГ P+PГPŸ C,P° P±PμP·
PeP»C-PSC-C+PSPëC... CГPëPjPиC,PsPjC-PI CГPμCГC+PμPIPSC— PSPμPrPsCГC,P°C,PSPsCГC,C-.
P—P°PиP°P»PsPj 90 % PиP°C+C-C”PSC,C-PI PиPμCГPμPSPμCГP»Pë PI P°PSP°PjPSPμP·C-
C-PSC,,P°CГPeC, PjC-PsPeP°CГPrP° C,P°/P°P±Ps PsPиPμCГP°C+C-CГ P·
CГPμPIP°CГPeCрP»CЦCГPëP·P°C+C-C—. P’C-P»CГCεC-CГC,CH PиP°C+C-C”PSC,C-PI
P·P°CГC,PsCГPsPICрPиP°P»Pë PиPμCГPëPSPPrPsPиCГPëP» PrPsPrP°C,PePsIPs PrPs
CГC,P°PSPPrP°CГC,PSPsC— C,PμCГP°PиC-C—: PrPμP·P°PиCГPμPиP°PSC,C-PI,
PиC-PиPsP»C-PиC-PrPμPjC-C+PSPëC... PиCГPμPиP°CГP°C,C-PI C,P° β-P±P»PsPeP°C,PsCГC-PI.

PкCГPSPsPIPSPëPj PeCГPëC,PμCГC-C”Pj PμC,,PμPeC,PëPIPSPsCГC,C- P±CрP»P°
CГCрPeCрPиPSP° PsC+C-PSPeP° PIPëPSPëPePSPμPSPSCЦ CГPμCГC+PμIPs-CГCрPrPëPSPSPSC—
P»PμC,,P°P»CГPSPsCГC,C-, PSPμ»PμC,P°P»CГPSPsPiPs C-PSC,,P°CГPeC,Cр PjC-PsPeP°CГPrP°
C,P°/P°P±Ps P·CрPиPëPSPePë CГPμCГC+CЦ P· PиPsPrP°P»CГCεPsCГ CрCГPиC-CεPSPsCГ
CГPμP°PSC-PjP°C+C-C”CГ. P»C-PeCрPIP°PSPSCЦ PиPμCГPëPSPPrPsPиCГPëP»PsPj Cр PrPsP·C- 8
PjPi 1 CГP°P· PSP° PrPsP±Cр PиCГPëP·PIPμ»Ps PrPs PrPsCГC,PsPIC-CГPSPsPiPs
P°P±CГPsP»CГC,PSPsPiPs P·PjPμPSCεPμPSPSCЦ PиPsPeP°P·PSPëPeP° PиPμCГPIPëPSPSPsC—
PeC-PSC+PμIPsC— C,PsC±PePë PrPsCГP»C-PrP¶PμPSPSCЦ PSP° 1,9 % (P·PjPμPSCεPμPSPSCЦ
PIC-PrPSPsCГPSPsPiPs CГPëP·PëPeCр PSP° 20 %, 95 % PŸP+ [9,4; 28,6] BГ” p < 0,001).

Pj PиP°C+C-C”PSC,C-PI P· C-PSC,,P°CГPeC,PsPj PjC-PsPeP°CГPrP° C,P°/P°P±Ps
CГPμPIP°CГPeCрP»CЦCГPëP·P°C+C-C”CГ PI P°PSP°PjPSPμP·C-
CГPиPsCГC,PμCГC-PиP°P»PsCГCЦ P°P±CГPsP»CГC,PSPμ P·PSPëP¶PμPSPSCЦ PSP° 2,2 %
PиPsPeP°P·PSPëPeP° PиPμCГPIPëPSPSPsC— PeC-PSC+PμIPsC— C,PsC±PePë, C%oPs
PIC-PrPиPsPIC-PrP°C” P·PSPëP¶PμPSPSCГ PIC-PrPSPsCГPSPsPiPs CГPëP·PëPeCр PSP° 22,4 %
(95 % PŸP+ [12,0; 31,6] BГ” p < 0,001) PиPsCГC-PIPSCЦPSPs P· PиP»P°C+PμP±Ps.

P—P°CГC,PsCГCрPIP°PSPSCЦ PrC-C,CЦPj

P’PμP·PиPμPeCр C,P° PμC,,PμPeC,PëPIPSC-CГC,CH P·P°CГC,PsCГCрPIP°PSPSCЦ
PиPμCГPëPSPPrPsPиCГPëP»Cр PrC-C,CЦPj C,P° PиC-PrP»C-C,PeP°Pj PIC-PePsPj PrPs 18
CГPsPeC-PI PICГC,P°PSPsPIP»PμPSPs PSPμ P±CрP»Ps.

PαP°CГPjP°PePsPeC-PSPμC,PëPeP°

PђP±CГPsCГP±C+C-CЦ

PμC-CГP»CЦ PиPμCГPsCГP°P»CГPSPsPiPs PиCГPëPNεPsPjCр PиPμCГPëPSPPrPsPиCГPëP»
CεPIPëPrPePs PICГPjPsPeC,CрC”C,CHCГCЦ, PjP°PeCГPëPjP°P»CГPSP°
PePsPSC+PμPSC,CГP°C+C-CЦ Cр PиP»P°P·PjC- PeCГPsPIC- (C_{max}) PrPsCГCЦPиP°C”C,CHCГCЦ
PиCГPsC,CЦPiPsPj 1 PiPsPrPëPSPë. PμPμCГC-PsPr PSP°PиC-PIPIPëPIPμPrPμPSPSCЦ
PиPμCГPëPSPPrPsPиCГPëP»Cр P· PиP»P°P·PjPë PeCГPsPIC- CГC,P°PSPsPIPëC,CH 1
PiPsPrPëPSCр.

PμPμCГPëPSPPrPsPиCГPëP» C” PиCГPsP»C-PeP°CГCГCHPePëPj P·P°CГPs±PsPj. 27 %
P·P°PиP°P»CГPSPsC— PeC-P»CГPePsCГC,C- PиCГPëPNεPSCЦC,PsPiPs
PиPμCГPëPSPPrPsPиCГPëP»Cр PIPëP·PSP°C±P°C”C,CHCГCЦ PI PeCГPsPIC- Cр PIPëPiP»CЦPrC-

P°PeC, PëPIPSPsPiPs PjPµC, P°P±PsP»C-C, Cí BĤ " PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí. PĤCĤC-Pj P°PeC, PëPIPSPsPiPs PjPµC, P°P±PsP»C-C, Cí BĤ " PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí BĤ " PīCĤPµPīP°CĤP°C, CíC, PIPsCĤCĤC" 5 PjPµC, P°P±PsP»C-C, C-PI, CĪPeC- C" PSPµP°PeC, PëPIPSPëPjPë. C_{max} PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí Cí PīP»P°P·PjC- PeCĤPsPIC- PrPsCÍCĪPīP°C"C, CĤCÍCĪ C±PµCĤPµP· 3BĤ"4 PiPsPrPëPSPë PiC-CÍP»CĪ PiCĤPëPNëPsPjCí.

P'PĪPëPIP°PSPSCĪ C—PĪC- P·PjPµPSC€CíC" PīPµCĤPµC, PIPsCĤPµPSPSCĪ PīPµCĤPëPSPPrPsPīCĤPëP»Cí Cí PīPµCĤPëPSPPrPsPīCĤPëP»P°C, . PhC, PĪPµ, P·PjPµPSC€CíC"C, CĤCÍCĪ PNëPsPiPs P±C-PsPrPsCÍC, CíPīPSC-CÍC, CĤ, C, PsPjCí PrPsP±PsPICí PrPsP·Cí PīPµCĤPëPSPPrPsPīCĤPëP»Cí C, PµCĤC, -P±CíC, PëP»P°PjC-PSCí CĤPµPePsPjPµPSPPrCíC"C, CĤCÍCĪ PīCĤPëPNëPjP°C, Pë PsPrPSPsCĤP°P·PsPIPs PICĤP°PSC†C- PīPµCĤPµPr PIPĪPëPIP°PSPSCĪPj C—PĪC-.

P'C-PrP·PSP°C±P°C"C, CĤCÍCĪ P»C-PSC-PNëPSP° P·P°P»PµPĪPSC-CÍC, CĤ PjC-PĪ PrPsP·PsCĤ PīPµCĤPëPSPPrPsPīCĤPëP»Cí C, P° PNëPsPiPs PePsPSC†PµPSC, CĤP°C†C-C"CĤ Cí PīP»P°P·PjC- PeCĤPsPIC-.

P PsP·PīPsPrC-P»

PhP±BĤ™ C"Pj CĤPsP·PīPsPrC-P»Cí PSPµP·PIBĤ™ CĪP·P°PSPsPiPs PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí CÍC, P°PSPsPIPëC, CĤ PiCĤPëP±P»PëP·PSPs 0,2 P»/PePi. P—PIBĤ™ CĪP·CíPIP°PSPSCĪ PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí P· P±C-P»PeP°PjPë PīP»P°P·PjPë PeCĤPsPIC- CÍC, P°PSPsPIPëC, CĤ 20 %, PiPsP»PsPIPSPëPj C±PëPSPsPj P· PĤPµP±, P°P»Pµ C†PµPNë PīPsPeP°P·PSPëPe C" PrPsP·PsP·P°P»PµPĪPSPëPj.

P'PëPIPµPrPµPSPSCĪ

PµPµCĤPëPSPPrPsPīCĤPëP»P°C, PIPëPIPpsPrPëC, CĤCÍCĪ C-P· CÍPµC±PµCĤ. PµPµCĤC-PsPr PsCÍC, P°C, PsC±PSPsPiPs PSP°PīC-PIIPëPIPµPrPµPSPSCĪ PSPµP·PIBĤ™ CĪP·P°PSPsC— C,, CĤP°PeC†C-C— CÍC, P°PSPsPIPëC, CĤ PiCĤPëP±P»PëP·PSPs 17 PiPsPrPëPS. PŸC, P°PrC-CĪ CĤC-PIPSPsPIP°PĪPSPsC— PePsPSC†PµPSC, CĤP°C†C-C— Cí PīP»P°P·PjC- PeCĤPsPIC- PSP°CÍC, P°C" C±PµCĤPµP· 4 PrPSC- PIC-Pr PīPsC±P°C, PeCí P»C-PeCíPIP°PSPSCĪ.

PhCÍPsP±P»PëPIC- PiCĤCíPīPë PīP°C†C-C"PSC, C-PI

P'PëPIPµPrPµPSPSCĪ PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí CíPīPsPIC-P»CĤPSCĤC"C, CĤCÍCĪ Cí PīP°C†C-C"PSC, C-PI P»C-C, PSCHPsPiPs PIC-PeCí, P° C, P°PePsPĪ Cí PīP°C†C-C"PSC, C-PI C-P· CÍPµCĤC†PµPIPsCĤ P°P±Ps PSPëCĤPePsPIPsCĤ PSPµPrPsCÍC, P°C, PSC-CÍC, CĤ. P PµPePsPjPµPSPPrPsPīP°PSPs PīC-PrP±PëCĤP°C, Pë PrPsP·Cí PrP»CĪ PīP°C†C-C"PSC, C-PI P· PSPëCĤPePsPIPsCĤ PSPµPrPsCÍC, P°C, PSC-CÍC, CĤ, PICĤP°C...PsPICíCĤC±Pë CÍC, CíPīC-PSCH PSPµPrPsCÍC, P°C, PSPsCÍC, C- (PeP»C-CĤPµPSCÍCí PeCĤPµP°C, PëPSC-PSCí).

P"C-P°P»C-P·PSPëPNë PeP»C-CĤPµPSCÍ PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí BĤ" 70 PjP»/C...PI.

PĤC-PSPµC, PëPeP° PīPµCĤPëPSPPrPsPīCĤPëP»Cí P·PjC-PSCĤC"C, CĤCÍCĪ Cí C...PIPsCĤPëC... PSP° C†PëCĤPsP· PīPµC±C-PSPePë: PīPµC±C-PSPePsPIPëPNë PeP»C-CĤPµPSCÍ PīPµCĤPëPSPPrPsPīCĤPëP»Cí P·PjPµPSC€CíC"C, CĤCÍCĪ PIPrPIC-C±C-. PhPrPSP°Pe PeC-P»CĤPeC-CÍC, CĤ PīPµCĤPëPSPPrPsPīCĤPëP»P°C, Cí, C%Ps CíC, PIPsCĤCĤC"C, CĤCÍCĪ, PSPµ P·PjPµPSC€CíC"C, CĤCÍCĪ. PhC, PĪPµ, C, P°PePëPj C...PIPsCĤPëPj PSPµ PīPsC, CĤC-P±PSPs PePsCĤPëPiCíPIP°C, Pë PrPsP·Cí (PrPëPI. CĤPsP·PrC-P»Pë B«PhCÍPsP±P»PëPIPSCÍC, C- P·P°CÍC, PsCÍCíPIP°PSPSCĪB» C, P° B«PŸPīPsCÍC-P± P·P°CÍC, PsCÍCíPIP°PSPSCĪ C, P° PrPsP·PëB»).

СГР°РсСрР±С-С,СГР°РсР»РсРј/РІР°Р»СГР°СГС,Р°РсРсРсРј; Р·Р°СГС,РсСГСрРІР°РсРсССЦ
РіСГРμРіР°СГР°С,Ср РμСГРμРсРμР»С-СЦ^В РсРμ РјРсР¶РсР°СГР°СРсРсСР°С,Рө
СГР°РсС-СөРμ РсС-Р¶ С±РμСГРμР· 36 РіРсРрРөРс РіС-СГР»СЦ РіСГР°РсРμРсРсРјСр
РсСГС,Р°РсРсССРсС— РрРсР·Рө СГР°РсСрР±С-С,СГР°РсР»Ср/РІР°Р»СГР°СГС,Р°РсСр (РрРөРІ.
СГР°СР·РрС-Р»Рө В«Р·Р°С»РјРсРрС-СЦ Р· С-РсСөРөРјРө Р»С-РөР°СГСГСРөРөРјРө
Р·Р°СГРсР±Р°РјРө С,Р° С-РсСөС- РІөРрРө РІР·Р°С»РјРсРрС-РμВ» С,Р°
В«РхСГРсР±Р»РөРІРсСГС,С- Р·Р°СГС,РсСГСрРІР°РсРсССЦВ»);

- РμРөСГС,СГР°РсРсСГРіРсСГР°Р»СРсС- РјРμС,РсРрРө Р»С-РөСрРІР°РсРсССЦ, СЦРөС-
РіСГРөР·РІРсРрСЦС,СР РрРс РөРсРсС,Р°РөС,Ср РөСГРсРІС- Р· РсРμРіР°С,РөРІРсРс
Р·Р°СГСЦРР¶РμРсРөРјРө РіРсРІРμСГС...РсСЦРјРө (РрРөРІ. СГР°СР·РрС-Р»
В«Р·Р°С»РјРсРрС-СЦ Р· С-РсСөРөРјРө Р»С-РөР°СГСГСРөРөРјРө Р·Р°СГРсР±Р°РјРө С,Р°
С-РсСөС- РІөРрРө РІР·Р°С»РјРсРрС-РμВ»);

- Р·РсР°С±РсРөРμ РрРІРсР±С-С±РсРөРμ СГС,РμРсРсР· РсРөСГРөРсРІРөС...
Р°СГС,РμСГС-Рμ Р°Р±С СГС,РμРсРсР· Р°СГС,РμСГС-С— С»РрРөРсРсС—
С„СрРсРөСрС-РсРсСрСГС±РсС— РсРөСГРөРө (РрРөРІ. СГР°СР·РрС-Р»
В«РхСГРсР±Р»РөРІРсСГС,С- Р·Р°СГС,РсСГСрРІР°РсРсССЦВ»).

**Р·Р°С»РјРсРрС-СЦ Р· С-РсСөРөРјРө Р»С-РөР°СГСГСРөРөРјРө
Р·Р°СГРсР±Р°РјРө С,Р° С-РсСөС- РІөРрРө РІР·Р°С»РјРсРрС-РμВ»**

Р°РсС- РөР»С-РсС-С±РсРөС... РрРсСГР»С-РрР¶РμРсСГ СГРІС-РрС±Р°С,СР, С%Рс
РіРсРрРІС-РμРсР° Р±Р»РсРөР°РрР° СГРμРсС-Рс-Р°РсРІС-РсС,РμРсР·РөРс-
Р°Р»СРсРрССГС,РμСГРсРсРсРІРсС— СГРөСГС,РμРјРө (Р РхРхРҮ) СөР»СЦ...РсРј
РсРрРсРсС±Р°СГРсРсРіС РіСГРөРμРсРсРјСр С-РсРІС-Р±С-С,РсСГС-РІ РхРμРα,
Р±Р»РсРөР°С,РсСГС-РІ СГРμСрРμРіС,РсСГС-РІ Р°РсРІС-РсС,РμРсР·РөРсСр Р±Р± Р°Р±С
Р°Р»С-СГРөС-СГРμРсСр Р°СГРсСрС-СР»С,СРСГСЦ Р· Р±С-Р»СРөС РІөСГРсРөРсСГ
С±Р°СГС,РсС,РсС РіРсР±С-С±РсРөС... СГРμР°РөСрС-Рμ, С,Р°РөРөС... СЦРө
Р°СГС,РμСГС-Р°Р»СРсР° РіС-РіРсС,РμРсР·С-СЦ, РіС-РіРμСГРөР°Р»С-С-С»РјС-СЦ С,Р°
Р·РсРөР¶РμРсРсС С„СрРсРөСрС-С— РсРөСГРсРө (РІөР»СР»СР»Рө РіРсСГС,СГСр
РсРөСГРөРсРІС РсРμРрРсСГС,Р°С,РсС-СГС,СР), РіРсСГС-РІРсСЦРсРс С-Р·
Р·Р°СГС,РсСГСрРІР°РсРсСЦ РсРрРсРсРіС РіСГРμРіР°СГР°С,Ср, С%Рс РІРіР»РөРІР°С» РсР°
Р РхРхРҮ (РрРөРІ. СГР°СР·РрС-Р»Рө В«РμСГРсС,РөРіРсРөР°Р»СР°РсРсССЦВ» С,Р°
В«РхСГРсР±Р»РөРІРсСГС,С- Р·Р°СГС,РсСГСрРІР°РсРсССЦВ»).

Р»С-РөР°СГСГСРөРөС- Р·Р°СГРсР±Рө, С%Рс РіС-РрРІРөС%СрСГС,СР СГРөР·РөРө
СГР°СР·РІРөС,РөС Р°РсРІС-РсРсРμРІСГРсС,РөС±РсРсРІРс РсР°Р±СГЦРөС

РхРрРсРсС±Р°СГРсРμ Р·Р°СГС,РсСГСрРІР°РсРсССЦ С-РсРІС-Р±С-С,РсСГС-РІ РхРμРα С-Р·
СГР°РсСрР±С-С,СГР°РсР»РсРј/РІР°Р»СГР°СГС,Р°РсРсРсРј РіСГРсС,РөРіРсРөР°Р»СР°РсРсРμ,
РсСГРөС-Р»СРөРө С±Рμ РіС-РрРІРөС%СрС» СГРөР·РөРө СГР°СР·РІРөС,РөСр
Р°РсРІС-РсРсРμРІСГРсС,РөС±РсРсРІРс РсР°Р±СГЦРөСр (РрРөРІ. СГР°СР·РрС-Р»Рө
В«РμСГРсС,РөРіРсРөР°Р»СР°РсРсССЦВ» С,Р° В«РхСГРсР±Р»РөРІРсСГС,С-
Р·Р°СГС,РсСГСрРІР°РсРсССЦВ»). Р РсР·РіРсС±РөРсР°С,Рө Р·Р°СГС,РсСГСрРІР°РсРсССЦ
СГР°РсСрР±С-С,СГР°РсР»Ср/РІР°Р»СГР°СГС,Р°РсСр СГР»С-Рр РсРμ СГР°РсС-СөРμ РсС-Р¶
С±РμСГРμР· 36 РіРсРрРөРс РіС-СГР»СЦ РіСГРөРμРсРсРјСр РсСГС,Р°РсРсССРсС— РрРсР·Рө
РіРμСГРөРсРрРсРіСРөР»Ср. РҮРμСГР°РіС-СР РіРμСГРөРсРрРсРіСРөР»РсРј
РіРсС,СГС-Р±РсРс СГР°СР·РіРсС±РөРсР°С,Рө РсРμ СГР°РсС-СөРμ РсС-Р¶ С±РμСГРμР·
36 РіРсРрРөРс РіС-СГР»СЦ РіСГРөРμРсРсРјСр РсСГС,Р°РсРсССРсС— РрРсР·Рө

СГР°РeСГР±С-С,СГРРeР»СГР/РIP°Р»СГР°СГР,Р°PSCГР (РrРePI. СГРPsP·РrC-Р»Рe
B«PμСГРPsC,РePиPsPeP°P·P°PSPSCЦB» C,Р° B«PhСГРPsP±P»PеPIPsСГРC,С-
P·P°СГРC,PsСГРCГРPIP°PSPSCЦB»).

PhPpPSPsC±P°СГРPSPμ P·P°СГРC,PsСГРCГРPIP°PSPSCЦ C-PSPiC-Р±С-С,PsСГРC-PI PhPμPα C-Р·
СГРP°СГРPμPeP°PpPsC,СГРРeP»PsPj, C-PSPiC-Р±С-С,PsСГРP°PjPе mTOR (PSP°PиСГРРeP»P°Pp, C-Р·
СГРPеСГРPsP»C-PjСГРCГРPsPj, PμPIPμСГРPsP»C-PjСГРCГРPsPj, C,РμPjСГРPеСГРPsP»C-PjСГРCГРPsPj) C,Р°
PiP»C-PиC,РePSP°PjPе (PSP°PиСГРРeP»P°Pp, C-Р· P»C-PSP°PiP»C-PиC,РePSPsPj,
СГР°РeСГР°PiP»C-PиC,РePSPsPj, СГРPеC,Р°PiP»C-PиC,РePSPsPj, PIC-Р»Pp°PiP»C-PиC,РePSPsPj)
PjPsPμPи PиСГРРeP·PIPμСГРC,Рe PpPs PиC-PpPIPеC%PμPSPSCЦ СГРРeP·PеPеCГР СГРPsP·PIPеC,PeCГР
P°PSPiC-PsPSPμPICСГРPsC,РeC±PSPsPiPs PSP°P±СГРCЦPеCГР (PpPеPI. СГРPsP·PpC-Р»
B«PhСГРPsP±P»PеPIPsСГРC,С- P·P°СГРC,PsСГРCГРPIP°PSPSCЦB»).

*P>C-РeP°СГРCГРСНРeC- P·P°СГРPsP±Pе, C%Ps СГРPиСГРРeC±PеPSCЦCСГР,СН
PiC-PiPμСГРPеP°P»C-С"PjC-СГ*

P C-PIPμPSCСН РeP°P»C-СН PI СГРPеСГРPsPIP°C,СГР- РeСГРPsPIC- P·P°P·PIPеC±P°Pμ
P·P°P»PеCеP°C"С,СНСГРCЦ CГ PjPμPμP°C... PSPsСГРPjPе, P°P»Pμ CГ PpPμCЦPеPеC...
PиP°СГРC-С"PSC,С-PI, CЦPеC- P·P°СГРC,PsСГРPsPICГРCСН,СН P»C-РeP°СГРCГРСНРePеPμ
P·P°СГРC-Р± PμСГРPμPSPμP»C-СЦ^В, PjPsPμPμ PIPеPSPеPеPSCГРC,Рe
PiC-PиPμСГРPеP°P»C-С"PjC-СЦ. P"PμCЦPеC- P»C-РeP°СГРCГРСНРeC- P·P°СГРPsP±Pе P°P±Ps
C,РμСГРP°PиPμPIC,РeC±PSC- РeP»P°СГРPе P»C-РeP°СГРCГРСНРePеC... P·P°СГРPsP±C-PI
PjPsPμCГРC,СН СГРPиСГРPеC±PеPSPеC,Рe PIPеPSPеPеPSPμPSPSCЦ PiC-PиPμСГРPеP°P»C-С"PjC-С—:
P°P»C-СГРPеC-СГРPμPS, СГРPsP»C- РeP°P»C-СН, РeP°P»C-PμP·P±PμСГРC-PиP°СНC±C-
PpC-СГРCГРPμC,РePеPе (PSP°PиСГРРeP»P°Pp, СГРPиC-СГРPsPSPsP»P°PеC,PsPS,
C,СГРPеP°PjC,РμСГРPμPS P°P±Ps P°PjC-Р»PsСГРPеPp), C-PSPiC-Р±С-С,PsСГРPе PhPμPα,
P°PSC,P°PiPsPSC-СГРC,Рe СГРPμCГРPиC,PsСГРC-PI P°PSPiC-PsC,РμPSP·PеPSCГР P†P†,
PSPμСГРC,РμСГРPsC—PpPSC- PиСГРPsC,РeP·P°PиP°P»СНPSC- P·P°СГРPsP±Pе (PкPμP—P—),
PiPμPиP°СГРPеPSPе, C-PjСГРPSPsСГРCГРPиСГРPμCГРPsСГРPе, C,Р°PеC- CЦPе
C†PеPеP»PsСГРPиPsСГРPеPS P°P±Ps C,Р°PеСГРPsP»C-PjСГРCГР, C,СГРPеPjPμC,PsPиСГРPеPj C,Р° PеPs-
C,СГРPеPjPsPеCГРP°P·PsP» (C,СГРPеPjPμC,PsPиСГРPеPj/СГРCГРP»СНC,,P°PjPμC,PsPеCГРP°P·PsP»),
PsСГРPеC-Р»СНРePе C,СГРPеPjPμC,PsPиСГРPеPj PpC-С" CЦPе
PеP°P»C-PμP·P±PμСГРC-PиP°СНC±PеPμ PpC-СГРCГРPμC,РePе, PиPsPpC-Р±PSPs PpPs
P°PjC-Р»PsСГРPеPpCГР. PhPpPSPsC±P°СГРPSPеPμ PиСГРPеPμPsPj PIPеP°P·P°PSPеC...
P»C-РeP°СГРCГРСНРePеC... P·P°СГРPsP±C-PI PiC-PpPIPеC%СГРC" СГРРeP·PеPе
PIPеPSPеPеPSPμPSPSCЦ PiC-PиPμСГРPеP°P»C-С"PjC-С—. PыPsPjCГ PpPpPSPsC±P°СГРPSPμ
P·P°СГРC,PsСГРCГРPIP°PSPSCЦ P»C-РeP°СГРCГРСНРePsPiPs P·P°СГРPsP±CГ PμСГРPμPSPμP»C-СЦ^В P·
PIPеC%PμP·P°P·PSP°C±PμPSPеPjPе PиСГРPμPиP°СГРP°C,Р°PjPе PSPμ
СГРPμPеPsPjPμPSPpPsPIP°PSPs. PиPеC%Ps PsPpPSPsC±P°СГРPSPμ P·P°СГРC,PsСГРCГРPIP°PSPSCЦ
C†PеC... СГРPμC±PsPIPеPS C" PSPμPsP±C...C-PpPSPеPj, C—C... СГРP»C-Pp
P·P°СГРC,PsСГРPsPICГРPIP°C,Рe P· PsP±PμСГРPμPμPSC-СГРC,СН C,Р° PиСГРPsPIPpPеC,Рe
C±P°СГРC,РePμ PjPsPSC-C,PsСГРPеPSPi СГРC-PIPSCЦ PеP°P»C-СН CГР CГРPеСГРPsPIP°C,СГР-
PеСГРPsPIC-.

*PhPpPSPsC±P°СГРPSPμ P·P°СГРC,PsСГРCГРPIP°PSPSCЦ PиСГРPsC,РePиPsPeP°P·P°PSPs (PpPеPI.
СГРPsP·PpC-Р» B«PμСГРPsC,РePиPsPeP°P·P°PSPSCЦB»)*

PhP»C-СГРPеC-СГРPμPS: CГ PиP°СГРC-С"PSC,С-PI, C...PIPсГРPеC... PSP° CГCГPеСГРPsPIPеPμ
PpC-P°P±PμC,, P°P±Ps PиP°СГРC-С"PSC,С-PI C-Р· PиPsСГРCГРPμPSPSCЦPjPе C,,CГPSPeCГРC—
PSPеСГРPsPе СГРPеP·PеPе PIPеPSPеPеPSPμPSPSCЦ PiC-PиPμСГРPеP°P»C-С"PjC-С—,
PиPsСГРCГРPμPSPSCЦ C,,CГPSPeCГРC— PSPеСГРPsPе C,Р°
PеP°СГРPpC-PsPIP°СГРPеCГРP»CЦCСГРPSPsC— P·P°C...PIPсГРCСНPIP°PSPsСГРC,С- Pμ

P»PμC,P°P»CHBPSPsCÍC,C- PiC-PrPIPëC%oCfC”C,CHCÍCÍC.

P·PeCÍC,CḡP°PePsCḡPiPsCḡP°P»CHBPSC- PjPμC,PsPrPë P»C-PeCfPIP°PSPSCÍC, CÍPeC- PiCḡPëP·PiPsPrCÍC,Cḡ PrPs PePsPSC,P°PeC,Cf PeCḡPsPIC- P·PSPμPiP°C,PëPIPSPs P·P°CḡCÍPrP¶PμPSPëPjPë PiPsPiPμCḡC...PSCÍPjPë, C,P°PePëPjPë CÍPe PIPëCÍPsPePsPiCḡPsC,PsC±PSC- PjPμPjP±CḡP°PSPë PrP»CÍ PrC-P°P»C-P·Cf P°P±Ps PiPμPjPsC,,C-P»CHC,CḡP°C†C-C— (PSP°PiCḡPëPeP»P°Pr, PiPsP»C-P°PeCḡPëP»PsPIC- PjPμPjP±CḡP°PSPë) C,P° PrP»CÍ P°C,,PμCḡPμP·Cf P»C-PiPsPiCḡPsC,PμC—PrC-PI PSPëP·CHPePsC— C%oC-P»CHBPSPsCÍC,C- P· PrPμPeCÍC,CḡP°PSCÍCfP»CHC,,P°C,PsPj, C%oPs PjPsP¶Pμ PiCḡPëP·PIPμCÍC,Pë PrPs PiC-PrPIPëC%oPμPSPSCÍC CḡPëP·PëPeCf PIPëPSPëPePSPμPSPSCÍC C,CÍP¶PePëC... P°PSP°C,,C-P»P°PeC,PsC—PrPSPëC... CḡPμP°PeC†C-PNë (PrPëPI. CḡPsP·PrC-P» B«PμCḡPsC,PëPiPsPeP°P·P°PSPSCÍC»). Pj CḡP°P·C- PSPμPsP±C...C-PrPSPsCÍC,C- C,P°PePsPiPs P»C-PeCfPIP°PSPSCÍC CÍP»C-Pr CḡPsP·PiP»CÍPSCfC,Pë PjPsP¶P»PëPIC-CÍC,Cḡ PIPëPePsCḡPëCÍC,P°PSPSCÍC PrC-P°P»C-P·PSPsC— PjPμPjP±CḡP°PSPë C-PSCëPsPiPs C,PëPiCf P°P±Ps P·P°CÍC,PsCÍCfPIP°PSPSCÍC C-PSCëPsPiPs PeP»P°CÍCf P°PSC,PëPiC-PiPμCḡC,PμPSP·PëPIPSPëC... PiCḡPμPiP°CḡP°C,C-PI.

PhPrPSPsC±P°CÍPSPμ P·P°CÍC,PsCÍCfPIP°PSPSCÍC PSPμ CḡPμPePsPjPμPSPPrPsPIP°PSPμ (PrPëPI. CḡPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍCfPIP°PSPSCÍC)

PhP»C-CÍPeC-CḡPμPS: Cf P±CfPrCH-CÍPePëC... C-PSCëPëC... PiP°C†C-C”PSC,C-PI, CÍPe C- Cf C...PiPsCḡPëC... PSP° C†CfPeCḡPsPiPëPNë PrC-P°P±PμC, P°P±Ps PiP°C†C-C”PSC,C-PI P· PiPsCḡCfCëPμPSPSCÍPjPë C,,CfPSPeC†C-C— PSPëCḡPsPe, CḡPëP·PëPe PIPëPSPëPePSPμPSPSCÍC PiC-PiPμCḡPeP°P»C-C”PjC-C—, PiPsCḡCfCëPμPSPSCÍC C,,CfPSPeC†C-C— PSPëCḡPsPe C,P° PeP°CḡPrC-PsPIP°CÍPeCfP»CÍCḡPSPsC— P·P°C...PiPsCḡCḡPIP°PSPsCÍC,C- PNë P»PμC,P°P»CHBPSPsCÍC,C- PiC-PrPIPëC%oCfC”C,CHCÍCÍC.

PhPrPSPsC±P°CÍPSPμ P·P°CÍC,PsCÍCfPIP°PSPSCÍC C-PSPiC-P±C-C,PsCḡP° PhPμPα C,P° P±P»PsPeP°C,PsCḡP° CḡPμC†PμPiC,PsCḡC-PI P°PSPiC-PsC,PμPSP·PëPSCf

P—P° PrP°PSPëPjPë P»C-C,PμCḡP°C,CfCḡPë PIC-PrPsPjPs, C%oPs Cf PiP°C†C-C”PSC,C-PI P·C- PICÍC,P°PSPsPiP»PμPSPëPj P°C,PμCḡPsCÍPeP»PμCḡPsP·PsPj, CÍPμCḡC†PμPiPsCḡ PSPμPrPsCÍC,P°C,PSC-CÍC,Cḡ P°P±Ps P· C†CfPeCḡPsPiPëPj PrC-P°P±PμC,PsPj P· CfCḡP°P¶PμPSPSCÍPj PsCḡPiP°PSC-PI-PjC-CëPμPSPμPNë PsPrPSPsC±P°CÍPSPμ P·P°CÍC,PsCÍCfPIP°PSPSCÍC C-PSPiC-P±C-C,PsCḡC-PI PhPμPα C,P° P±P»PsPeP°C,PsCḡC-PI CḡPμC†PμPiC,PsCḡC-PI P°PSPiC-PsC,PμPSP·PëPSCf CÍCfPiCḡPsPiPsPrP¶CfPIP°P»PsCÍCÍC PiC-PrPIPëC%oPμPSPSCÍPj C±P°CÍC,PsC,Pë PIPëPSPëPePSPμPSPSCÍC P°CḡC,PμCḡC-P°P»CHBPSPsC— PiC-PiPsC,PμPSP·C-C—, PSPμPiCḡPëC,PsPjPSPsCÍC,C-, PiC-PiPμCḡPeP°P»C-C”PjC-C— C,P° PiPsCḡCfCëPμPSPSCÍPj C,,CfPSPeC†C-C— PSPëCḡPsPe (Cf C,PsPjCf C±PëCÍP»C- PiPsCÍC,CḡPsC— PSPëCḡPePsPiPsC— PSPμPrPsCÍC,P°C,PSPsCÍC,C-) PiPsCḡC-PIPSCÍPSPs P· PjPsPSPsC,PμCḡP°PiC-C”Cḡ PiCḡPμPiP°CḡP°C,P°PjPë, C%oPs PIPiP»PëPIP°CḡC,Cḡ PSP° P PhPḡPḡ. P—P°CÍC,PsCÍCfPIP°PSPSCÍC PiPsPrPIC-PNëPSPsC— P±P»PsPeP°PrPë (C,PsP±C,Ps PePsPjP±C-PSP°C†C-CÍC C-PSPiC-P±C-C,PsCḡP° PhPμPα P· P°PSC,P°PiPsPSC-CÍC,P°PjPë CḡPμC†PμPiC,PsCḡC-PI P°PSPiC-PsC,PμPSP·PëPSCf P†P†) PjPsP¶P»PëPIPμ C,C-P»CHPePë PI PsPeCḡPμPjPëC... PIPëPiP°PrPeP°C... P·P° CfPjPsPiPë CḡPμC,PμP»CHBPSPsPiPs PePsPSC,CḡPsP»Cḡ C,,CfPSPeC†C-C— PSPëCḡPsPe, CḡC-PIPSCÍC PeP°P»C-Cḡ C,P° P°CḡC,PμCḡC-P°P»CHBPSPsPiPs C,PëCÍPeCf.

P·CÍC,CḡP°PjCfCÍC,PëPS: PiC-PrPIPëC%oPμPSPSCÍC CḡPëP·PëPeCf PIPëPSPëPePSPμPSPSCÍC PiPsP±C-C±PSPëC... CḡPμP°PeC†C-PNë, C,P°PePëC... CÍPe P°PSPiC-PsPSPμPICḡPsC,PëC±PSPëPNë PSP°P±CḡCÍPe (P°PSPiC-PsPμPrPμPjP°).

P" C-CrC7PμC, PēPePē. Pj PiP° C†C-C" PSC, C-PI, CΠPeC- PiC7PēPNē PjP° C7C, CH
PrC-CrC7PμC, PēPePē, PsC†PsP±P»PēPIPs Cr C, PēC..., Cr PePsPiPs PiPsC7CrCēPμPSPēPNē
PIPsPrPSPs-PμP»PμPeC, C7PsP»C-C, PSPēPNē PsP±PjC-PS, PjPsP¶P»PēPIPμ PSP°PrPjC-C7PSPμ
P·PSPēP¶PμPSPSCΠ P° C7C, PμC7C-P°P»CHPSPsPiPs C, PēC†PeCr PiC-C†P»CΠ PiPsC±P° C, PeCr
P»C-PeCrPIP°PSPSCΠ C-PSPiC-P±C-C, PsC7PsPj P7PμPα. P†PjPsPIC-C7PSC-C†C, CH
C7PsP·PIPēC, PeCr PiC-PiPsC, PμPSP·PēPIPSPsPiPs PμC,, PμPeC, Cr PjPsP¶Pμ P±CrC, Pē
P·PSPēP¶PμPSP° CēP»CΠC...PsPj PIC-PrPjC-PSPē PiC7PēPNēPsPjCr PrC-CrC7PμC, PēPeP°,
PiC-PrPIPēC%PμPSPSCΠ PsP±b7™ C" PjCr C†PēC7PeCrP»C7C7C±PsC— PeC7PsPIC- P°P±Ps
C†PiPsP¶PēPIP°PSPSCΠ C†PsP»C- PiPμC7PμPr PiPsC±P° C, PePsPj C, PμC7P°PiC-C—
PiPμC7PēPSPrPsPiC7PēP»PsPj, CΠPeCr C†P»C-Pr C7PsP·PiPsC±PēPSP° C, Pē P· PSPēP·CHPePsC—
PrPsP·Pē P· PiPsC†C, CrPiPsPIPēPj C—C— PiC-PrPIPēC%PμPSPSCΠPj.

PμC7Pē P° C7C, PμC7C-P°P»CHPSC-PNē PiC-PiPμC7C, PμPSP·C-C—, PePsP»Pē
PiPsPiPμC7PμPrPSC7Ps PiC7PēP·PSP° C±PμPSPēPNē PrC-CrC7PμC, PēPe PjC-Pi
C†PiC7PēC±PēPSPēC, Pē PSPμPrPsC†C, P° C, PSC-C†C, CH PIPsPrPē/PμP»PμPeC, C7PsP»C-C, C-PI,
PNēPsPiPs PSPμPsP±C...C-PrPSPs PIC-PrPjC-PSPēC, Pē PiPμC7PμPr PiPsC±P° C, PePsPj
P»C-PeCrPIP°PSPSCΠ C-PSPiC-P±C-C, PsC7PsPj P7PμPα (Cr C, P°PePēC... PIPēPiP°PrPeP°C...
PiC7PēPNēPsPj PrC-CrC7PμC, PēPeP° PjPsP¶Pμ P±CrC, Pē PiPsPSPsPIP»PμPSPs P· C±P° C†PsPj)
P°P±Ps PiC7PēP·PSP° C±PēC, Pē C-PSPiC-P±C-C, PsC7 P7PμPα Cr PSPēP·CHPeC-PNē PrPsP·C- P·
PiPsC†C, CrPiPsPIPēPj C—C— PiC-PrPIPēC%PμPSPSCΠPj.

PμC7Pē P·P° C†C, C-PNēPSC-PNē C†PμC7C†PμPIC-PNē PSPμPrPsC†C, P° C, PSPsC†C, C- PSP° C, P»C-
PiC7PēPNēPsPjC± PrC-C±C7PμC, PēPeP° PiC7PēPNēPsPj C-PSPiC-P±C-C, PsC7P° P7PμPα C†P»C-Pr
C7PsP·PiPsC±PēPSP° C, Pē P· PjC-PSC-PjP°P»CHPSPsC— PrPsP·Pē, PjPsP¶P»PēPIPs, PiC-C†P»CΠ
P·PSPēP¶PμPSPSCΠ PrPsP·Pē PrC-CrC7PμC, PēPeP°. Pj P±CrPrCH-CΠPePsPjCr PIPēPiP°PrPeCr
PSPμPsP±C...C-PrPSPs PePsPSC, C7PsP»C7PIP° C, Pē C,, CrPSPeC†C-C7 PSPēC7PsPe
(C7C-PIPμPSC7 PeC7PμP° C, PēPSC-PSC†) PiC7PsC, CΠPiPsPj PiPμC7CēPēC... C, PēP¶PSC-PI
P»C-PeCrPIP°PSPSCΠ C-PSPiC-P±C-C, PsC7PsPj P7PμPα.

P7P°P»C-PNēP·P±PμC7C-PiP° C7C±C- PrC-CrC7PμC, PēPePē (PμPiP»PμC7PμPSPsPS,
C†PiC-C7PsPSPsP»P°PeC, PsPS). PμC7Pē PsPrPSPsC±P° C†PSPsPjCr P·P° C†C, PsC†C†PIP°PSPSC-
PμPiP»PμC7PμPSPsPSC† P°P±Ps C†PiC-C7PsPSPsP»P°PeC, PsPSC† PI PrPsP·P°C... PIC-Pr 12,5
PrPs 50 PjPi PSP° PrPsP±Cr P· PSPēP·CHPePēPjPē PrPsP·P°PjPē C-PSPiC-P±C-C, PsC7C-PI
P7PμPα Cr PiP° C†C-C" PSC, C-PI C-P· C†PμC7C†PμPIPsC7 PSPμPrPsC†C, P° C, PSC-C†C, C7 P†P†-
P†V C,, CrPSPeC†C-PsPSP°P»CHPSPēC... PeP»P° C†C-PI P·P° CēPeP°P»PsC7 PkCHC7-
P™ PsC7PeC†C7PePsC— PeP° C7PrC-PsP»PsPiC-C±PSPsC— P° C†PsC†C-P° C†C-C— (NYHA) C-
C,, C7P°PeC†C-C" C7 PIPēPePēPrCr < 40 %, CΠPeC- C7P°PSC-CēPμ PiC7PēPNēPjP°P»Pē
C-PSPiC-P±C-C, PsC7Pē P7PμPα C, P° PiPμC, P»CHPsPIC- PrC-CrC7PμC, PēPePē, C-C†PSC†C"
C7PēP·PēPe PIPēPSPēPePSPμPSPSCΠ PiC-PiPμC7PēP°P»C-C" PjC-C— (PiPsC, PμPSC†C-PNēPSPs
P»PμC, P°P»CHPSPsC—), PsC†PsP±P»PēPIPs Cr C7P°P·C- PSPμPrPsC, C7PēPjP°PSPSCΠ
C7PμPePsPjPμPSPrP° C†C-PNē C%PsPrPs PiC7PēP·PSP° C±PμPSPSCΠ C, P°PePsC—
PePsPjP±C-PSP° C†C-C—. PμPμC7PμPr PiPsC±P° C, PePsPj P·P° C†C, PsC†C†PIP°PSPSCΠ
C, P°PePsC— PePsPjP±C-PSP° C†C-C— C†P»C-Pr CrPiPμPIPSPēC, PēC†CΠ Cr
PIC-PrC†C†C, PSPsC†C, C- PiC-PiPμC7PēP°P»C-C" PjC-C— C, P° PiPsC7CrCēPμPSPSCΠ
C,, CrPSPeC†C-C— PSPēC7PsPe. P PμPePsPjPμPSPrPsPIP°PSPs PiC7PsPIPsPrPēC, Pē
C7PμC, PμP»CHPSPēPNē PjPsPSC-C, PsC7PēPSPi PeP°P»C-C" PjC-C— C, P°
PeC7PμP° C, PēPSC-PSPμPjC-C— C%PsC, PēP¶PSPμPIPs PiC-Pr C±P° C† PiPμC7CēPsPiPs
PjC-C†CΠC†CΠ P»C-PeCrPIP°PSPSCΠ C, P° C%PsPjC-C†CΠC±PSPs PSP°PrP°P»C-.

PkPμC†C, PμC7PsC—PrPSC- PiC7PsC, PēP·P°PiP°P»CHPSC- P·P° C†PsP±Pē (PkPμP—P—),
PIPeP»C7C±P° C7C±Pē P° C†PμC, PēP»C†P°P»C-C†PēP»PsPICr PePēC†P»PsC, Cr ≥ 3 Pi/PrPsP±Cr.

P_hPsP_hP»P_hPIP_h P_iPsC_iP»P°P±P»P_hPSPSC_i P°PSC,P_hPiC-PiP_hCh_hC,P_hPSP·P_hPIPSPsPiPs
P_hC,,P_hPeC,C_r C_r C_hP°P·C- PsPrPSPsC_hP°C_iPSPsPiPs P·P°C_iC,P_sC_iC_rPIP°PSPSC_i
C-PSPiC-P±C-C,P_sCh_hC-PI P_hP_hP_h P· P_kP_hP—P—, C,P°PeP_hP_jP_h C_iPe
P°C_iP_hC,P_hP»C_iP°P»C-C_iP_hP»PsPIP° PeP_hC_iP»PsC,P° C_r
PiC_hPsC,P_hP·P°PiP°P»Ch_hPSP_hPeC... PrPsP·P°C..., C-PSPiC-P±C-C,P_sCh_hP_h P_iP_hP“-2,
PSP_hC_iP_hP»P_hPeC,P_hPIPSC- P_kP_hP—P—. P_hPrPSPsC_hP°C_iPSP_h
P·P°C_iC,P_sC_iC_rPIP°PSPSC_i C-PSPiC-P±C-C,P_sCh_hC-PI P_hP_hP_h C,P° P_kP_hP—P— P_jPsP_hP_h
PiC_hP_hP·PIP_hC_iC,P_h PrPs P·P±C-P»Ch_hC_hP_hPSPSC_i Ch_hP_hP·P_hPeC_r PiPsCh_hC_rC_hP_hPSPSC_i
C,,C_rPSPeC_iC-C— PSP_hCh_hPsPe, C_r C,P_sP_jC_r C_hP_hC_iP»C- P_hP_jPsPIC-Ch_hPSPsC_iC,C-
Ch_hPsP·PIP_hPeC,PeC_r PiPsC_iC,Ch_hPsC— PSP_hCh_hPePsPIP_hC— PSP_hPrPsC_iC,P°C,PSPsC_iC,C-,
PiC-PrPIP_hPeC°P_hPSPSC_i Ch_hC-PIPSC_i PeP°P»C-Ch_h C_r C_iP_hCh_hPsPIP°C,C_iC- PeCh_hPsPIC-,
PsC_iPsP±P»P_hPIPs C_r PiP°C_iC-C”PSC,C-PI C-P· PiPsCh_hC_rC_hP_hPSPSC_iP_jP_h C,,C_rPSPeC_iC-C—
PSP_hCh_hPsPe PI P°PSP°P_jPSP_hP·C-. P_hP°PeC_r PePsP_jP±C-PSP°C_iC-Ch_h C_iP»C-Pr
PiC_hP_hP·PSP°C_hP°C,P_h P· PsP±P_hCh_hP_hP_hPSPSC-C_iC,C_h, P·PsPeCh_hP_hP_jP° PiP°C_iC-C”PSC,P°P_j
P»C-C,P_sCh_hPsPiPs PIC-PeC_r. P_hP°C_iC-C”PSC,P°P_j PSP_hPsP±C...C-PrPSPs
PIC-PrPSPsPIP_hPeC,P_h PIPsPrPSP_hPeP_h P±P°P»P°PSC_i C,P° PSP°PrP°C,P_h
Ch_hP_hPePsP_jP_hPSPPrP°C_iC-C— C°P_sPrPs PePsPSC,Ch_hPsP»Ch_h C,,C_rPSPeC_iC-C—
PSP_hCh_hPsPe PiC-C_iP»C_i PiPsC_hP°C,PeC_r PePsP_jP±C-PSPsPIP°PSPsC— C,P_hCh_hP°PiC-C—
C,P° PiC_hP_h PiPsPrP°P»Ch_hC_hPsP_jC_r P»C-PeC_rPIP°PSPSC-.

P_hPrPSPsC_hP°C_iPSP_h P·P°C_iC,P_sC_iC_rPIP°PSPSC_i, C°P_s PiPsC,Ch_hP_hP±C_iC” C_iPIP°PiP_h

P_hPSC,P_hPiC-PiP_hCh_hC,P_hPSP·P_hPIPSC- P·P°C_iPsP±P_h C,P° PIP°P·PsPrP_hP»P°C,P°C,P_sCh_hP_h:
PsPrPSPsC_hP°C_iPSP_h P·P°C_iC,P_sC_iC_rPIP°PSPSC_i P°PSC,P_hPiC-PiP_hCh_hC,P_hPSP·P_hPIPSP_hPeC...
P·P°C_iPsP±C-PI P_jPsP_hP_h PiC-PrPIP_hPeC°P_hPeC,P_h PiC-PiPsC,P_hPSP·P_hPIPSP_hPeP_h P_hC,,P_hPeC,
PiP_hCh_hP_hPSPPrPsPiC_hP_hP»C_r. P_hPrPSPsC_hP°C_iPSP_h P·P°C_iC,P_sC_iC_rPIP°PSPSC_i P·
PSC-C,Ch_hPsPiP»C-C_iP_hCh_hP_hPSPsP_j C,P° C-PSC_hPeP_jP_h PSC-C,Ch_hP°C,P°P_jP_h P°P±Ps P·
C-PSC_hPeP_jP_h PIP°P·PsPrP_hP»P°C,P°C,P_sCh_hP°P_jP_h P_jPsP_hP_h C_iPiC_hP_hPeC_iC,P_h
PrPsPrP°C,PePsPIP_hP_jC_r P·PSP_hP_hP_hPSPSC_h P°C_hC,P_hCh_hC-P°P»Ch_hPSPsPiPs C,P_hC_iPeC_r.

P_hPrPSPsC_hP°C_iPSP_h P·P°C_iC,P_sC_iC_rPIP°PSPSC_i PrP_hC_iPeP_hC...
C,Ch_hP_hC_iP_hPeP»C-C_hPSP_hPeC... P°PSC,P_hPrP_hPiC_hP_hC_iP°PSC,C-PI P°P±Ps
P°PSC,P_hPiC_iP_hPeC...PsC,Ch_hPsPiPSP_hPeC... P·P°C_iPsP±C-PI, P°P±Ps P°PSP_hC_iC,P_hC,P_hPeC-PI P·
C-PSPiC-P±C-C,P_sCh_hP°P_jP_h P_hP_hP_h P_jPsP_hP_h PiC_hP_hP·PIP_hC_iC,P_h PrPs PiPsPrP°P»Ch_hC_hPsPiPs
P·PSP_hP_hP_hPSPSC_i P°C_hC,P_hCh_hC-P°P»Ch_hPSPsPiPs C,P_hC_iPeC_r (PrP_hPI. Ch_hPsP·PrC-P»
B«P_hC_iPsP±P»P_hPIPsC_iC,C- P·P°C_iC,P_sC_iC_rPIP°PSPSC_iB»).

P_hP_hP_jPiP°C,P_sP_jC-P_jP_hC,P_hPeP_h P_jPsP_hP_hC_rC,Ch_h PiPsC_iP»P°P±P»C_iC,P_h
P°PSC,P_hPiC-PiP_hCh_hC,P_hPSP·P_hPIPSC_r PrC-Ch_h C-PSPiC-P±C-C,P_sCh_hC-PI P_hP_hP_h.

P—PsP»PsC,Ps: PSC-C,Ch_hP°C,P_sPiPsPrC-P±PSP° Ch_hP_hP°PeC_iC-C_i (C_iP_hP_jPiC,P_sP_jP_h:
PiPsC_hP_hCh_hPIPsPSC-PSPSC_i PsP±P»P_hC_hC_hC_i, PSC_rPrPsC,P°, P±P»Ch_hPIP°PSPSC_i C,P°
P°C_hC,P_hCh_hC-P°P»Ch_hPSP° PiC-PiPsC,P_hPSP·C-C_i) P·C_rC_iC,Ch_hC-C_hP°P»P°C_iC_i Ch_hC-PrPePs
C_r PiP°C_iC-C”PSC,C-PI, C_iPeC- PsPrPSPsC_hP°C_iPSPs PiC_hP_hPeP_hP_jP°P»P_h
C-PSPiC-P±C-C,P_sCh_hP_h P_hP_hP_h, PIP_hPeP»Ch_hC_hP°C_hC_hP_h PiP_hCh_hP_hPSPPrPsPiC_hP_hP»P», C,P°
C-PS_h™ C”PeC_iC-PN_hPSC- PiC_hP_hPiP°Ch_hP°C,P_h P·PsP»PsC,P° (PSP°C,Ch_hC-Ch_h
P°C_rCh_hPsC,C-PsP_jP°P»P°C,).

P_hC_iPsP±P»P_hPIPsC_iC,C- P·P°C_iC,P_sC_iC_rPIP°PSPSC_i

PjPsP¶PSP° P·P°CÍC,PsCÍPsPICrPIP°C,Pë P±PµP· P±CíPrCHb-CIIPePëC...
PíPµC¶PµC€PePsPr PíC-CÍP»CII PIC-PrPSPsPIP»PµPSPSCII PsP±b¶™ C”PjCí PeC¶PsPIC-
C,P° PíC-PrPIPëC%oPµPSPSCII P°C¶C,PµC¶C-P°P»CHbPSPsPiPs C,PëCÍPeCí.

PJ PrPµCIIPePëC... PíP°C†C-C”PSC,C-PI C-P· P·P°CÍC,C-PNëPSPsC¶ CÍPµC¶C†PµPIPsC¶
PSPµPrPsCÍC,P°C,PSC-CÍC,C¶ P· PSPsC¶PjP°P»CHbPSPëPj P°P±Ps P·PSPëP¶PµPSPëPj
P°C¶C,PµC¶C-P°P»CHbPSPëPj C,PëCÍPePsPj PíPµC¶C¶PSPPrPsPíC¶PëP»Cí C,PµC¶C,-
P±CíC,PëP»P°PjC-PS PjPsP¶Pµ CÍPíC¶PëC†PëPSPëC,Pë PrPsPrP°C,PePsPIPµ P·PSPëP¶PµPSPSCII
CÍPëCÍC,PµPjPSPsPiPs P°C¶C,PµC¶C-P°P»CHbPSPsPiPs C,PëCÍPeCí. PíPµPNë PµC,,PµPeC, C”
PíPµC¶C¶PµPrP±P°C†CíPIP°PSPëPj C- P·P°P·PIPëC†P°PNë PSPµ PíPsC,C¶PµP±CíC” PIC-PrPjC-PSPë
PíC¶PµPíP°C¶P°C,Cí. PíPeC%oPs P°C¶C,PµC¶C-P°P»CHbPSP° PíC-PíPsC,PµPSP·C-CII CÍC,P°C”
CÍPëPjPíC,PsPjP°C,PëC†PSPsC¶, PjPsP¶Pµ P·b¶™ CIIPIPëC,PëCÍCII
PSPµPsP±C...C-PrPSC-CÍC,CHb P·PSPëP¶PµPSPSCII PrPsP·Pë P°P±Ps PIC-PrPjC-PSPë
PíC¶PµPíP°C¶P°C,Cí.

PŸC,PµPSPsP· P°PsC¶C,P°P»CHbPSPsPiPs C,P° PjC-C,C¶P°P»CHbPSPsPiPs
PeP»P°PíP°PSC-PI/PiC-PíPµC¶C,C¶PsC,,C-C†PSP° PeP°C¶PrC-PsPjC-PsPíP°C,C-CII. PíPe C-
C-PSC€C- C-PSPiC-P±C-C,PsC¶Pë P¶PµPα, PíPµC¶C¶PSPPrPsPíC¶PëP»Cí C,PµC¶C,-
P±CíC,PëP»P°PjC-PS CÍP»C-Pr P· PsP±PµC¶PµP¶PSC-CÍC,C¶ PíC¶PëP·PSP°C†P°C,Pë
PíP°C†C-C”PSC,P°Pj P·C- CÍC,PµPSPsP·PsPj PjC-C,C¶P°P»CHbPSPsPiPs PeP»P°PíP°PSP° P°P±Ps
PsP±CÍC,C¶CíPeC†C-C”C¶ PIPëC...PsPrCí P· P»C-PIPsPiPs C€P»CíPSPsC†PeP°
(P°PsC¶C,P°P»CHbPSPëPNë CÍC,PµPSPsP· P°P±Ps PíC-PíPµC¶C,C¶PsC,,C-C†PSP°
PeP°C¶PrC-PsPjC-PsPíP°C,C-CII).

PµPsC¶CíC€PµPSPSCII C,,CíPSPeC†C-C— PSPëC¶PsPe

PJ PIPëPíP°PrPeCí PSPëC¶PePsPIPsC— PSPµPrPsCÍC,P°C,PSPsCÍC,C- (PeP»C-C¶PµPSCÍ
PeC¶PµP°C,PëPSC-PSCí < 60 PjP»/C...PI) PíPsC†P°C,PePsPICr PrPsP·Cí
PíPµC¶C¶PSPPrPsPíC¶PëP»Cí CÍP»C-Pr PíC¶PëP·PSP°C†P°C,Pë PIC-PrPíPsPIC-PrPSPs PrPs
PeP»C-C¶PµPSCÍCí PeC¶PµP°C,PëPSC-PSCí PíP°C†C-C”PSC,P° (PrPëPI. C¶PsP·PrC-P»
B«PŸPíPsCÍC-P± P·P°CÍC,PsCÍCíPIP°PSPSCII C,P° PrPsP·PëB»), P° PrP°P»C- b¶™“
P·P°P»PµP¶PSPs PIC-Pr PIC-PrPíPsPIC-PrC- PíP°C†C-C”PSC,P° PSP°
P»C-PeCíPIP°PSPSCII. P PµPíCíP»CII C¶PSPëPNë PjPsPSC-C,PsC¶PëPSPi PeP°P»C-C¶
C,P° PeC¶PµP°C,PëPSC-PSCí C” C†P°CÍC,PëPSPsC¶ P·PIPëC†P°PNëPSPsC—
PjPµPrPëC†PSPsC— PíC¶P°PeC,PëPePë PrP»CII C,P°PePëC... PíP°C†C-C”PSC,C-PI
(PrPëPI. C¶PsP·PrC-P» B«PµPsP±C-C†PSC- C¶PµP°PeC†C-C—B»).

PJ PíP°C†C-C”PSC,C-PI C-P· CÍPëPjPíC,PsPjP°C,PëC†PSPsC¶ CÍPµC¶C†PµPIPsC¶
PSPµPrPsCÍC,P°C,PSC-CÍC,C¶ P°C¶C,PµC¶C-P°P»CHbPSP° PíC-PíPsC,PµPSP·C-CII, C%oPs
PIPëPSPëPeP°C” PSP° PíPsC†P°C,PeCí P·P°CÍC,PsCÍCíPIP°PSPSCII C-PSPiC-P±C-C,PsC¶C-PI
P¶PµPα, PjPsP¶Pµ PíC¶PëP·PIPµCÍC,Pë PrPs PíPsC¶CíC€PµPSPSCII C,,CíPSPeC†C-C—
PSPëC¶PsPe, Cí PrPµCIIPePëC... PIPëPíP°PrPeP°C... b¶™“ C-P· PIPëPSPëPePSPµPSPSCII Pj
PíPsCÍC,C¶PsC— PSPëC¶PePsPIPsC— PSPµPrPsCÍC,P°C,PSPsCÍC,C-, CIIPeP° P·P°P·PIPëC†P°PNë
C” PsP±PsC¶PsC,PSPsC¶.

PJ PrPµCIIPePëC... PíP°C†C-C”PSC,C-PI C-P· PrPIPsP±C-C†PSPëPj CÍC,PµPSPsP·PsPj
PSPëC¶PePsPIPëC... P°C¶C,PµC¶C-PNë P°P±Ps CÍC,PµPSPsP·PsPj P°C¶C,PµC¶C-C—
C”PrPëPSPsC— PSPëC¶PePë PíC¶Pë P·P°CÍC,PsCÍCíPIP°PSPSC- C-PSPiC-P±C-C,PsC¶C-PI
P¶PµPα CÍPíPsCÍC,PµC¶C-PíP°P»PsCÍCII P·P±C-P»CHbC€PµPSPSCII C¶C-PIPSCII
CÍPµC†PsPIPëPSPë PeC¶PsPIC- C,P° PeC¶PµP°C,PëPSC-PSCí PI CÍPëC¶PsPIP°C,C†C-
PeC¶PsPIC-, CIIPeC- P·P°P·PIPëC†P°PNë PíPsPIPµC¶C,P°P»PëCÍCII PrPs PSPsC¶PjPë PíC-CÍP»CII

PiC7P8PiP8PSPuPSPSCu P»C-PeCfPIP°PSPSCu. P|Pu PsCfPsP±P»P8PIPs
CfC,PsCfCfC”C,CHCfCfC PiP°CfC-C”PSC,C-PI C-P· PSP8C7PePsPIPsC7
PSPuPrPsCfC,P°C,PSC-CfC,C7. PuC7P8 PSP°CfPIPSPsCfC,C- CfCfPiCfC,PSC7PsC—
C7PuPSPsPIP°CfPeCfP»CfC7PSPsC— PiC-PiPuC7C,PuPSP·C-C— C7P8P·P8Pe
PIP8PSP8PePSPuPSPSCu C,CfP¶PePsC— P°C7C,PuC7C-P°P»CHPSPsC— PiC-PiPsC,PuPSP·C-C—
C,P° PSP8C7PePsPIPsC— PSPuPrPsCfC,P°C,PSPsCfC,C- PiC-PrPIP8C%°CfC”C,CHCfCfC. P”P»CfC
C,P°PeP8C... PiP°CfC-C”PSC,C-PI P»C-PeCfPIP°PSPSCu CfP»C-Pr C7PsP·PiPsCfP8PSP°C,P8
PiC-Pr C7PuC,PuP»CHPSP8Pj CfPiPsCfC,PuC7PuP¶PuPSPSCuPj P»C-PeP°C7CfC P·
PjP°P»PuPSC7PeP8C... PrPsP· C,P° P· PsP±PuC7PuP¶PSPsC7 C,P8C,C7P°CfC-C”C7 PrPsP·.
P”C7P°C...PsPICfC7CfP8 PIP8C%°PuCfPeP°P·P°PSPu, P»C-PeCfPIP°PSPSCu
PrC-CfC7PuC,P8PeP°PjP8 PjPsP¶Pu CfPiC7P8CfP8PSP8C,P8 PIP8PSP8PePSPuPSPSCu
P°C7C,PuC7C-P°P»CHPSPsC— PiC-PiPsC,PuPSP·C-C—, C,PsPjCf C—C... PiPsC,C7C-P±PSPs
PIC-PrPjC-PSP8C,P8 C,P° PiC7PsPIPsPrP8C,P8 PjPsPSC-C,PsC7P8PSPi C,,CfPSPeCfC-C—
PSP8C7PsPe Cf PiPuC7C€C- C,P8P¶PSC- P»C-PeCfPIP°PSPSCu PiPuC7P8PSPPrPsPiC7P8P»Cf
C,PuC7C,-P±CfC,P8P»P°PjC-PSPsPj.

Pj PrPuCfPeP8C... PiP°CfC-C”PSC,C-PI P· P°C7C,PuC7C-P°P»CHPSPsC7
PiC-PiPuC7C,PuPSP·C-C”C7, Cf CfPeP8C... PrPs PiPsCfP°C,PeCf P»C-PeCfPIP°PSPSCu PSPu
P±CfP»Ps PIP8CfPIP»PuPSPs C7PuPSPsPIP°CfPeCfP»CfC7PSP8C...
P·P°C...PIPsC7C7PIP°PSC7, PIC-PrP±CfPIP°P»PsCfCfC PiC-PrPIP8C%°PuPSPSCu
CfPuCfPsPIP8PSP8 PeC7PsPIC- C,P° PeC7PuP°C,P8PSC-PSCf CfP8C7PsPIP°C,PeP8 PeC7PsPIC-,
P·P°P·PIP8CfP°P№ PSPuP·PSP°CfPSPu C,P° C,P8PjCfP°CfPsPIPu, PsCfPsP±P»P8PIPs PePsP»P8
PiPuC7P8PSPPrPsPiC7P8P»Cf C,PuC7C,-P±CfC,P8P»P°PjC-PS PiC7P8P·PSP°CfP°P»P8
PsPrPSPsCfP°CfPSPs P· PrC-CfC7PuC,P8PePsPj. P7P»Pu CfPu P±C-P»CHC€
C...P°C7P°PeC,PuC7PSPs PrP»CfC PiP°CfC-C”PSC,C-PI P· CfP¶Pu C-CfPSCfC7CfPsC7
PSP8C7PePsPIPsC7 PSPuPrPsCfC,P°C,PSC-CfC,C7. P7PsP¶Pu CfC,P°C,P8
PSPuPsP±C...C-PrPSP8Pj P·PSP8P¶PuPSPSCu PrPsP·P8 C,P°/P°P±Ps PIC-PrPjC-PSP°
PrC-CfC7PuC,P8PeP° C,P°/P°P±Ps PiPuC7P8PSPPrPsPiC7P8P»Cf C,PuC7C,-
P±CfC,P8P»P°PjC-PSCf.

PuP°CfC-C”PSC,P8, CfPeC- PiPuC7PuP±CfPIP°C7C,CH PSP° PiPuPjPsPrC-P°P»C-P·C-.
PuPsPIC-PrPsPjP»CfP»PsCfCfC PiC7Ps PIP8PiP°PrPeP8 PIP8PSP8PePSPuPSPSCu
P°PSP°C,,C-P»P°PeC,PsC—PrPSP8C... C7PuP°PeCfC-P№ Cf PiP°CfC-C”PSC,C-PI, CfPeC-
PiC7P8P8PjP°P»P8 C-PSPiC-P±C-C,PsC7P8 P7PuPα PiC-Pr CfP°Cf PiPuC7PuP±CfPIP°PSPSCu
PSP° PiPuPjPsPrC-P°P»C-P·C- P· PIP8PePsC7P8CfC,P°PSPSCuPj
PIP8CfPsPePsPiC7PsC,PsCfPSP8C... PjPuPjP±C7P°PS. P7P°PeP8Pj PiP°CfC-C”PSC,P°Pj CfP»C-Pr
P·P°CfC,PsCfPsPICfPIP°C,P8 C-PSC€P8P№ C,P8Pi PrC-P°P»C-P·PSP8C... PjPuPjP±C7P°PS
P°P±Ps PiC7P8P·PSP°CfP°C,P8 C-PSC€P8P№ PeP»P°Cf
P°PSC,P8PiC-PiPuC7C,PuPSP·P8PIPSP8C... P·P°CfPsP±C-PI.

PuP°CfC-C”PSC,P8 PiC-CfP»CfC C,C7P°PSCfPiP»P°PSC,P°CfC-C— PSP8C7PeP8. P”PsCfPIC-Pr
C%°PsPrPs PiC7P8P·PSP°CfPuPSPSCu PiPuC7P8PSPPrPsPiC7P8P»Cf C,PuC7C,-
P±CfC,P8P»P°PjC-PSCf PiP°CfC-C”PSC,P°Pj PiC-CfP»CfC PSPuC%°PsPrP°PIPSs
PiPuC7PuPSPuCfPuPSPsC— PsPiPuC7P°CfC-C— P· C,C7P°PSCfPiP»P°PSC,P°CfC-C—
PSP8C7PeP8 PIC-PrCfCfC,PSC-P№.

P PuPSPsPIP°CfPeCfP»CfC7PSP° PiC-PiPuC7C,PuPSP·C-CfC

Pj C7P°P·C- PiC7P8P·PSP°CfPuPSPSCu C-PSPiC-P±C-C,PsC7C-PI P7PuPα PiP°CfC-C”PSC,P°Pj
C-P· PrPIPsP±C-CfPSP8Pj CfC,PuPSPsP·PsPj PSP8C7PePsPIP8C... P°C7C,PuC7C-P№ P°P±Ps
CfC,PuPSPsP·PsPj P°C7C,PuC7C-C— C”PrP8PSPsC— C,,CfPSPeCfC-PsPSCfC7CfPsC—
PSP8C7PeP8 PiC-PrPIP8C%°CfC”C,CHCfCfC C7P8P·P8Pe PIP8PSP8PePSPuPSPSCu

P°CḥC, PμCḥC-P°P»CHḥPSPsC— PiC-PiPsC, PμPSP·C-C— C, P° PSPëCḥPePsPIPSC—
PSPμPrPsCḥC, P°C, PSPsCḥC, C- (PrPëPI. CḥPsP·PrC-P» B«PμCḥPsC, PëPiPsPeP°P·P°PSPSCḥB»).

PŸPiCḥPëCḥC, P»PëPIPëPj C,, P°PeC, PsCḥPsPj PjPsP¶Pμ P±CḥC, Pë P»C-PeCḥPIP°PSPSCḥ
PrC-CḥCḥPμC, PëPeP°PjPë. P°C, CḥP°C, P° C,, CḥPSPeCḥC-C— PSPëCḥPsPe PjPsP¶Pμ
PiCḥPsCḥPIP»CḥC, PëCḥCḥ PjC-PSC-PjP°P»CHḥPSPëPjPë P·PjC-PSP°PjPë CḥC-PIPSC-
PeCḥPμP°C, PëPSC-PSCḥ CḥPëCḥPsPIP°C, PePë PeCḥPsPIC- PSP°PIC-C, CH Cḥ
PiP°CḥC-C°PSC, C-PI P·C- CḥC, PμPSPsP·PsPj P°CḥC, PμCḥC-C— PsPrPSC-C°C— P· PSPëCḥPsPe.

P°C-PiPμCḥCḥCḥC, P»PëPIC-CḥC, CH/P°PSPiC-PsPSPμPICḥPsC, PëCḥPSPëPNë PSP°P±CḥCḥPe

PμPsPIC-PrPsPjP»CḥC»PsCḥCḥC PiCḥPs CḥC-PrPeC-CḥPSC- PIPëPiP°PrPePë
PIPëPSPëPePSPμPSPSCḥC P°PSPiC-PsPSPμPICḥPsC, PëCḥPSPsPiPs PSP°P±CḥCḥPeCḥ
PsP±P»PëCḥCḥCḥC, PeC-PSCḥC-PIPsPe, PiCḥP±, CḥP»PëP·PsPIPëC... PsP±PsP»PsPSPsPe,
CḥC·PëPeP°, PiPsP»PsCḥPsPIPSC— C°C-P»PëPSPë C, P°/P°P±Ps PiPsCḥC, P°PSC- Cḥ
PiP°CḥC-C°PSC, C-PI PiC-Pr CḥP°Cḥ P·P°CḥC, PsCḥCḥPIP°PSPSCḥC C-PSPiC-P±C-C, PsCḥC-PI
PḥPμPα, Cḥ C, PsPjCḥ CḥPëCḥCḥC»C- PiPμCḥPëPSPPrPsPiCḥPëP»CḥC, PμCḥC, -P±CḥC, PëP»P°PjC-PSCḥ
(PrPëPI. CḥPsP·PrC-P» B«PμPsP±C-CḥPSC- CḥPμP°PeCḥC-C—B»). PḥPμ PjPsP¶Pμ
CḥC, P°C, PëCḥCḥC P±CḥPrCH-PePsP»Pë PiC-Pr CḥP°Cḥ P»C-PeCḥPIP°PSPSCḥC. Pj C, P°PePëC...
PIPëPiP°PrPeP°C... PSPμPsP±C...C-PrPSPs C, PμCḥPjC-PSPsPIPs PIC-PrPjC-PSPëC, Pë
PiCḥPμPiP°CḥP°C, C- PICḥC, P°PSPsPIPëC, Pë PIC-PrPiPsPIC-PrPSPëPNë PSP°PiP»CḥCḥPr P·P°
CḥC, P°PSPsPj PiP°CḥC-C°PSC, P° PrPs PiPsPIPSPsPiPs P·PSPëPePSPμPSPSCḥC CḥPëPjPiC, PsPjC-PI.
Pj C, PëC... PsPeCḥPμPjPëC... PIPëPiP°PrPeP°C..., PePsP»Pë PSP°P±CḥCḥPe
CḥPsP·PiPsPICḥCḥPrP¶CḥC°C, CHCḥCḥC P»PëCḥCḥ Cḥ PrC-P»CḥPSCḥC- PsP±P»PëCḥCḥCḥC C, P°
PiCḥP±, CḥC, P°PS PiP°CḥC-C°PSC, P° P·P°P·PIPëCḥP°PNë PiPsPeCḥP°C°CḥCḥCḥC P±PμP·
P»C-PeCḥPIP°PSPSCḥC. PμCḥPëP·PSP°CḥPμPSPSCḥC P°PSC, PëPiC-CḥC, P°PjC-PSPSPëC...
PiCḥPμPiP°CḥP°C, C-PI PjPsP¶Pμ P±CḥC, Pë PePsCḥPëCḥPSPëPj PrP»CḥC P·PjPμPSCḥCḥPμPSPSCḥC
CḥPëPjPiC, PsPjC-PI.

PḥPSPiC-PsPSPμPICḥPsC, PëCḥPSPëPNë PSP°P±CḥCḥPe, PiPsPiBḥ™ CḥC·P°PSPëPNë C-P·
PSP°P±CḥCḥPePsPj PiPsCḥC, P°PSC-, PjPsP¶Pμ PiCḥPëP·PIPμCḥC, Pë PrPs
P»PμC, P°P»CHḥPSPsPiPs PSP°CḥC»C-PrPeCḥ. Pj PIPëPiP°PrPeP°C..., PePsP»Pë PSP°P±CḥCḥPe
CḥPsP·PiPsPICḥCḥPrP¶CḥC°C, CHCḥCḥC PSP° CḥC·PëPe, PiPsP»PsCḥPsPICḥC C°C-P»PëPSCḥ
P°P±Ps PiPsCḥC, P°PSCḥ, C°Ps CḥPiCḥPëCḥPëPSCḥC” PsP±CḥC, CḥCḥPeCḥC-Cḥ
PrPëC...P°P»CHḥPSPëC... CḥP»CḥC...C-PI, PSPμPsP±C...C-PrPSPμ C, PμCḥPjC-PSPsPIPs
PiCḥPsPIPμPrPμPSPSCḥC PSPμPIC-PrPeP»P°PrPSPsC— C, PμCḥP°PiC-C—, CḥPeP° PjPsP¶Pμ
PIPeP»CḥCḥP°C, Pë PIPiPμPrPμPSPSCḥC P°PrCḥPμPSP°P»C-PSCḥ C, P°/P°P±Ps
P·P°P±PμP·PiPμCḥPμPSPSCḥC PiCḥPsC...C-PrPSPsCḥC, C- PrPëC...P°P»CHḥPSPëC...
CḥP»CḥC...C-PI. PμP°CḥC-C°PSC, Cḥ CḥP»C-Pr PiPμCḥPμP±CḥPIP°C, Pë PiC-Pr
CḥPμC, PμP»CHḥPSPëPj PjPμPrPëCḥPSPëPj PSP°PiP»CḥCḥPrPsPj PrPs PiPsPIPSPsPiPs
P·PSPëPePSPμPSPSCḥC CḥPëPjPiC, PsPjC-PI C, P° CḥC, P°P±C-P»C-P·P°CḥC-C— PNëPsPiPs
CḥC, P°PSCḥ. PμP°CḥC-C°PSC, Pë P· P°PSPiC-PsPSPμPICḥPsC, PëCḥPSPëPj
PSP°P±CḥCḥPePsPj PI P°PSP°PjPSPμP·C-, CḥPePëPNë PSPμ P±CḥCḥ
PiPsPiBḥ™ CḥC·P°PSPëPNë C-P· PiCḥPëPNëPsPjPsPj C-PSPiC-P±C-C, PsCḥC-PI PḥPμPα,
PSP°P»PμP¶P°C, CH PrPs PiCḥCḥPiPë PiC-PrPIPëC°PμPSPsPiPs CḥPëP·PëPeCḥ
CḥPsP·PIPëC, PeCḥ P°PSPiC-PsPSPμPICḥPsC, PëCḥPSPsPiPs PSP°P±CḥCḥPeCḥ PiC-Pr
CḥP°Cḥ PiCḥPëPNëPsPjCḥ C-PSPiC-P±C-C, PsCḥC-PI PḥPμPα (PrPëPI. CḥPsP·PrC-P»
B«PμCḥPsC, PëPiPsPeP°P·P°PSPSCḥB»).

PμPsPIC-PrPsPjP»CḥC»PsCḥCḥC PiCḥPs CḥC-PrPeC-CḥPSC- PIPëPiP°PrPePë
PIPëPSPëPePSPμPSPSCḥC C-PSC, PμCḥC, PëPSP°P»CHḥPSPsPiPs
P°PSPiC-PsPSPμPICḥPsC, PëCḥPSPsPiPs PSP°P±CḥCḥPeCḥ Cḥ PiP°CḥC-C°PSC, C-PI PiC-Pr CḥP°Cḥ

P»C-PeCfPIP°PSPSCl C-PSPiC-P±C-C,PsCfP°PjPë PñPµPα. PJ C,P°PePëC... PiP°C†C-C"psc,C-PI C†PiPsC†C,PµCfC-PiP°PIC†C P°P±PrPsPjC-PSP°P»CHbPSPëPñ P±C-P»CHb (P· PSC†PrPsC,PsCf P°P±Ps P±P»CfPIP°PSPSClPj C†Pë P±PµP· PSPëC...); Cr PrPµCfPePëC... PIPëPiP°PrPeP°C... PSPµ C†PiPsC†C,PµCfC-PiP°P»PsC†C PiPsPiPµCfPµPrPSCfPsPiPs P°PSPiC-PsPSPµPICfPsC,PëC†PSPsPiPs PSP°P±CfCfPeC† C,P° CfC-PiPµPSCf Pÿ-1 PµC†C,PµCfP°P·Pë P±C†PI Cr PSPsCfPjC-. P" C-P°PiPSPsP· C-PSC,PµC†C,PëPSP°P»CHbPSPsPiPs P°PSPiC-PsPSPµPICfPsC,PëC†PSPsPiPs PSP°P±CfCfPeC† P±C†PI PIC†C,P°PSPsPiP»PµPSPëPñ PiC-Pr C†P°C† PePsPjPibf™ CfC,PµCfPSPsC— C,PsPjPsPiCfP°C,,C-C— C†PµCfPµPIPSPsC— PiPsCfPSP¶PSPëPSPë P°P±Ps C†P°C† C...C-CfC†CfPiC-C†PSPsPiPs PIC,CfC†C†P°PSPSCl. PµC-C†P»Cf PIC-PrPjC-PSPë C-PSPiC-P±C-C,PsCfP° PñPµPα C†PëPjPiC,PsPjPë P°PSPiC-PsPSPµPICfPsC,PëC†PSPsPiPs PSP°P±CfCfPeC† P·PSPëPeP°P»Pë. P†PSC,PµC†C,PëPSP°P»CHbPSPëPñ P°PSPiC-PsPSPµPICfPsC,PëC†PSPëPñ PSP°P±CfCfPe PSPµPsP±C...C-PrPSPs PICfP°C...PsPIC†PIP°C,Pë PiC-Pr C†P°C† PiCfPsPiPµPrPµPSPSCl PrPëC,,PµCfPµPSC†C-PñPSPsPiPs PrC-P°PiPSPsP·C† Cr PiP°C†C-C"psc,C-PI P· P°P±PrPsPjC-PSP°P»CHbPSPëPj P±PsP»PµPj, CfPeC- PiCfPëPñPjP°CfC,CHb C-PSPiC-P±C-C,PsCfPë PñPµPα.

PñPrPSPsC†P°C†PSPµ P·P°C†C,PsC†C†PIP°PSPSCl PiPµCfPëPSPPrPsPiCfPëP»Cr P· C†P°PeC†P±C-C,CfPëP»PsPj/PIP°P»C†P°CfC,P°PSPsPj PiCfPsC,PëPiPsPeP°P·P°PSPµ C†PµCfPµP· PiC-PrPIPëC%oPµPSPëPñ CfPëP·PëPe CfPsP·PIPëC,PeC† P°PSPiC-PsPSPµPICfPsC,PëC†PSPsPiPs PSP°P±CfCfPeC† (PrPëPI. CfPsP·PrC-P» B«PµCfPsC,PëPiPsPeP°P·P°PSPSClB»). P PsP·PiPsC†PëPSP°C,Pë P·P°C†C,PsC†C†PIP°PSPSCl C†P°PeC†P±C-C,CfPëP»C†/PIP°P»C†P°CfC,P°PSC† C†P»C-Pr PSPµ CfP°PSC-CëPµ PSC-P¶ C†PµCfPµP· 36 PiPsPrPëPS PiC-C†P»Cf PiCfPëPñPsPjC† PsC†C,P°PSPSCHbPsC— PrPsP·Pë PiPµCfPëPSPPrPsPiCfPëP»Cr. PJ CfP°P·C- PiCfPëPiPëPSPµPSPSCl P»C-PeC†PIP°PSPSCl C†P°PeC†P±C-C,CfPëP»PsPj/PIP°P»C†P°CfC,P°PSPsPj C,PµCfP°PiC-Cf PiPµCfPëPSPPrPsPiCfPëP»PsPj PiPsC,CfC-P±PSPs CfPsP·PiPsC†PëPSP°C,Pë PSPµ CfP°PSC-CëPµ PSC-P¶ C†PµCfPµP· 36 PiPsPrPëPS PiC-C†P»Cf PiCfPëPñPsPjC† PsC†C,P°PSPSCHbPsC— PrPsP·Pë C†P°PeC†P±C-C,CfPëP»C†/PIP°P»C†P°CfC,P°PSC† (PrPëPI. CfPsP·PrC-P»Pë B«PµCfPsC,PëPiPsPeP°P·P°PSPSClB» C,P° B«P·P·P°C"pjPsPrC-Cf P· C-PSCëPëPjPë P»C-PeP°CfC†CHbPePëPjPë P·P°C†PsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C"pjPsPrC-PñB»).

PñPrPSPsC†P°C†PSPµ P·P°C†C,PsC†C†PIP°PSPSCl C-PSPiC-P±C-C,PsCfC-PI PñPµPα P· C-PSPiC-P±C-C,PsCfP°PjPë PSPµPñC,CfP°P»CHbPSPsC— PµPSPPrPsPiPµPiC,PëPrP°P·Pë (PáP·Pµ) (PSP°PiCfPëPeP»P°Pr, C-P· CfP°C†PµPeP°PrPsC,CfPëP»PsPj), C-PSPiC-P±C-C,PsCfP°PjPë mTOR (PSP°PiCfPëPeP»P°Pr, C-P· C†PëCfPsP»C-PjC†C†PsPj, PµPIPµCfPsP»C-PjC†C†PsPj, C,PµPjC†PëCfPsP»C-PjC†C†PsPj) C,P° PiP»C-PiC,PëPSP°PjPë (PSP°PiCfPëPeP»P°Pr, C-P· P»C-PSP°PiP»C-PiC,PëPSPsPj, C†P°PeC†P°PiP»C-PiC,PëPSPsPj, C†PëC,P°PiP»C-PiC,PëPSPsPj, PIC-P»PrP°PiP»C-PiC,PëPSPsPj) PjPsP¶Pµ PiCfPëP·PIPµC†C,Pë PrPs PiC-PrPIPëC%oPµPSPSCl CfPëP·PëPeC† CfPsP·PIPëC,PeC† P°PSPiC-PsPSPµPICfPsC,PëC†PSPsPiPs PSP°P±CfCfPeC† (PSP°PiCfPëPeP»P°Pr, PSP°P±CfCfPeC† PrPëC...P°P»CHbPSPëC... CëP»CfC...C-PI P°P±Ps CfP·PëPeP°, P· PiPsCfC†CëPµPSPSClPj C,,C†PSPeC†C-C— PrPëC...P°PSPSCl P°P±Ps P±PµP·) (PrPëPI. CfPsP·PrC-P» B«P·P·P°C"pjPsPrC-Cf P· C-PSCëPëPjPë P»C-PeP°CfC†CHbPePëPjPë P·P°C†PsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C"pjPsPrC-PñB»). PÿP»C-Pr P· PsP±PµCfPµP¶PSC-C†C,Cf CfPsP·PiPsC†PëPSP°C,Pë P»C-PeC†PIP°PSPSCl CfP°C†PµPeP°PrPsC,CfPëP»PsPj, C-PSPiC-P±C-C,PsCfP°PjPë mTOR (PSP°PiCfPëPeP»P°Pr, C†PëCfPsP»C-PjC†C†PsPj, PµPIPµCfPsP»C-PjC†C†PsPj, C,PµPjC†PëCfPsP»C-PjC†C†PsPj) C,P° PiP»C-PiC,PëPSP°PjPë (PSP°PiCfPëPeP»P°Pr, P»C-PSP°PiP»C-PiC,PëPSPsPj,

CÍP°PeCÍP°PiP»C-PiC,PëPSPsPj, CÍPëC,P°PiP»C-PiC,PëPSPsPj, PIC-P»PrP°PiP»C-PiC,PëPSPsPj) PIP°C†C-C”PSC,P°Pj, CÍPeC- PIP¶Pµ P·P°CÍC,PsCÍPsPICrCñC,CH C-PSPiC-P±C-C,PsCñPë PñPµPα.

PñPSP°C,,C-P»P°PeC,PsC-PrPSC- CñPµP°PeC†C-C— PiC-Pr C±P°CÍ PiP»P°P·PjP°C,,PµCñPµP·CÍ P»C-PiPsPiCñPµC,PµC-PrC-PI PSPëP·CHPePsC— C%oC-P»CHPSPsCÍC,C- (P»PµPíP©).

P—CñC-PrPeP° CÍ PiP°C†C-C”PSC,C-PI, CÍPeC- PiCñPëPNëPjP°CñC,CH C-PSPiC-P±C-C,PsCñPë PñPµPα PiC-Pr C±P°CÍ PiCñPµPjPµPrPµPSPSCÍ PiP»P°P·PjP°C,,PµCñPµP·CÍ P»C-PiPsPiCñPµC,PµC-PrC-PI PSPëP·CHPePsC— C%oC-P»CHPSPsCÍC,C- (P»PµPíP©) P· PIPëPePsCñPëCÍC,P°PSPSCÍPj PrPµPeCÍC,CñP°PSCÍCÍP»CñC,,P°C,CÍ, PIPëPSPëPeP°P»Pë PSPµP±PµP·PiPµC±PSC- PrP»CÍ P¶PëC,C,CÍ P°PSP°C,,C-P»P°PeC,PsC-PrPSC- CñPµP°PeC†C-C—. P PsP·PIPëC,PeCÍ P°PSP°C,,C-P»P°PeC,PsC-PrPSPëC... CñPµP°PeC†C-PNë PjPsP¶PSP° CÍPSPëPePSCrC,Pë, CÍPeC%oPs PiPµCñPµPr PiCñPµPjPµPrPµPSPSCÍPj PePsP¶PSPsPiPs PiP»P°P·PjP°C,,PµCñPµP·CÍ C,PëPjC±P°CÍPsPIPs PiCñPëPiPëPSPSCÍC,Pë P»C-PeCÍPIP°PSPSCÍ C-PSPiC-P±C-C,PsCñP°PjPë PñPµPα.

PñPSP°C,,C-P»P°PeC,PsC-PrPSC- CñPµP°PeC†C-C— PiC-Pr C±P°CÍ PrPµCÍPµPSCÍPëP±C-P»C-P·CÍCñC±PsC— C,PµCñP°PiC-C—. Pj PiP°C†C-C”PSC,C-PI, CÍPeC-

PiCñPëPNëPjP°CñC,CH C-PSPiC-P±C-C,PsCñPë PñPµPα PiC-Pr C±P°CÍ PrPµCÍPµPSCÍPëP±C-P»C-P·CÍCñC±PsPiPs P»C-PeCÍPIP°PSPSCÍ (PSP°PiCñPëPeP»P°Pr, PiCñPµPiP°CñP°C,P°PjPë, C%oPs PjC-CÍC,CÍC,CH P±PrP¶PsP»PëPSCr PsC,CñCÍC,CÍ), PjPsP¶CÍC,CH PIPëPSPëPeP°C,Pë P°PSP°C,,C-P»P°PeC,PsC-PrPSC- CñPµP°PeC†C-C—, CÍPeC- P·P°PiCñPµP¶CÍCñC,CH P¶PëC,C,Cñ. PiPëC... CñPµP°PeC†C-PNë PjPsP¶PSP° CÍPSPëPePSCrC,Pë PiCñPë C,PëPjC±P°CÍPsPIPsPjCÍ PiCñPëPiPëPSPµPSPSC- P·P°CÍC,PsCÍCÍPIP°PSPSCÍ C-PSPiC-P±C-C,PsCñC-PI PñPµPα, P°P»Pµ CñPµP°PeC†C-C— PjPsP¶CÍC,CH PIPëPSPëPePSCrC,Pë P·PSPsPICr PiCñPë PSPµPsP±PµCñPµP¶PSPsPjCÍ PiCñPµPjPµPrPµPSPSC- PiCñPµPjPµPeP°C†C-PNëPSPëC... PiCñPµP±.

PµPµC±C-PSPePsPIP° PSPµPrPsCÍC,P°C,PSC-CÍC,CH. P C-PrPePs P·P°CÍC,PsCÍCÍPIP°PSPSCÍ C-PSPiC-P±C-C,PsCñC-PI PñPµPα

P°CÍPsC†C-CñPIP°P»PsCÍCÍ P· PIPëPSPëPePSPµPSPSCÍPj CÍPëPSPrCñPµPjCÍ, C%oPs CñPµP·PiPsC±PëPSP°C”C,CHCÍCÍ P· C...PsP»PµCÍC,P°C,PëC±PSPsC— P¶PsPIC,CÍPSPëC†C- C- PiCñPµPiCñPµCÍCÍ PrPs CëPIPëPrPePsPiP»PëPSPSPsPiPs PSPµPeCñPµP·CÍ PiPµC±C-PSPePë, C-PSPePsP»Pë P· P»PµC,P°P»CHPSPëPj PSP°CÍP»C-PrPePsPj. PñPµC...P°PSC-P·Pj C†CHPsPiPs CÍPëPSPrCñPµPjCÍ PSPµCÍCÍPSPëPNë. PµP°C†C-C”PSC,P°Pj, CÍ CÍPePëC... PiC-Pr C±P°CÍ PiCñPëPNëPsPjCÍ C-PSPiC-P±C-C,PsCñC-PI PñPµPα CñPµP·PIPëPSCrP»P°CÍCÍ P¶PsPIC,CÍPSPëC†CÍ P°P±Ps PIC-PrP·PSP°C±P°C”C,CHCÍCÍ PiC-PrPIPëC%oPµPSPSCÍ CñC-PIPSCÍ PiPµC±C-PSPePsPIPëC... C,,PµCñPµPµPSC,C-PI, CÍP»C-Pr PiCñPëPiPëPSPëC,Pë PiCñPëPNëPsPj C-PSPiC-P±C-C,PsCñP° PñPµPα C,P° P·P°P±PµP·PiPµC±PëC,Pë PIC-PrPiPsPIC-PrPSPµ PjPµPrPëC±PSPµ PsP±CÍC,PµP¶PµPSPSCÍ C- P»C-PeCÍPIP°PSPSCÍ (PrPëPI. CñPµP·PrC-P» B«PµPsP±C-C±PSC- CñPµP°PeC†C-C—B»).

PíPµPNëC,CñPµPiPµPSC-CÍ/P°PiCñP°PSCrP»PsC†PëC,PsP·, C,CñPµPjP±PsC†PëC,PsPiPµPSC-CÍ C,P° P°PSPµPjC-CÍ

PñPµCñPµPr PiP°C†C-C”PSC,C-PI, CÍPeC- PiCñPëPNëPjP°CñC,CH C-PSPiC-P±C-C,PsCñPë PñPµPα, P±CÍP»Ps P·P°CñPµC”CÍC,CñPµPIP°PSPs PIPëPiP°PrPePë PSPµPNëC,CñPµPiPµPSC-C—/P°PiCñP°PSCrP»PsC†PëC,PsP·CÍ, C,CñPµPjP±PsC†PëC,PsPiPµPSC-C— C,P° P°PSPµPjC-C—. Pj PiP°C†C-C”PSC,C-PI P·

PSPsCḡPjP°P»CHḡPSPsCḡ C,,CfPSPeC†C-C”Cḡ PSPeCḡPsPe C,P° PiCḡPē
PIC-PrCfCfC,PSPsCfC,C- C-PSCePēC... C,,P°PeC,PsCḡC-PI CḡPēP·PēPeCf
PSPμPNēC,CḡPsPiPμPSC-Cf PIPēPSPēPeP°C” CḡC-PrPePs. PμPμCḡPēPSPPrPsPiCḡPēP» CfP»C-Pr
PiCḡPēP·PSP°C†P°C,Pē PrCfP¶Pμ PsP±PμCḡPμP¶PSPs PiP°C†C-C”PSC,P°Pj C-P·
PePsP»P°PiPμPSPsP·P°PjPē, PiC-Pr C†P°Cf C,PμCḡP°PiC-C—
C-PjCfPSPsCfCfPiCḡPμCfPsCḡP°PjPē, P°P»PsPiCfCḡPēPSPsP»PsPj P°P±Ps
PiCḡPsPeP°C—PSP°PjC-PrPsPj, P°P±Ps PiCḡPē PiPsC”PrPSP°PSPSC- C†PēC...
PsP±C,CfP¶P»PēPIPēC... C,,P°PeC,PsCḡC-PI, PsCfPsP±P»PēPIPs CfPeC%Ps C”
PiPsCḡCfCēPμPSPSCf C,,CfPSPeC†C-C— PSPeCḡPsPe. Pj PrPμPePsPiPs P· C,P°PePēC...
PiP°C†C-C”PSC,C-PI PIPēP·PSP°C†P°PICfCf CḡPsP·PIPēC,PsPe CfPμCḡPNēPsP·PSPēC...
C-PSC,,PμPeC†C-PNēPSPēC... P·P°C...PIPsCḡCḡPIP°PSCḡ, CfPeC- PI PrPμPeC-P»CHḡPePsC...
PIPēPiP°PrPeP°C... PSPμ PIC-PrPiPsPIC-PrP°P»Pē PSP° C-PSC,PμPSCfPēPIPSCf
P°PSC,PēP±C-PsC,PēPePsC,PμCḡP°PiC-Cḡ. Pj CḡP°P·C- P·P°CfC,PsCfCfPiP°PSPSCf
PiPμCḡPēPSPPrPsPiCḡPēP»Cf C,P°PePēPj PiP°C†C-C”PSC,P°Pj CḡPμPePsPjPμPSPPrCfC”C,CHḡCfCf
PiPμCḡC-PsPrPēC†PSPs PePsPSC,CḡPsP»CḡPIP°C,Pē PeC-P»CHḡPeC-CfC,CH
P»PμPNēPePsC†PēC,C-PI Cf PeCḡPsPIC-. PŷP°PePsP¶ PiP°C†C-C”PSC,Pē PjP°CḡC,CH P·PSP°C,Pē,
C%Ps PSPμPsP±C...C-PrPSPs CfPiPsPIC-C%P°C,Pē PiCḡPs P±CfPrCḡ-CfPePēPNē PiCḡPsCfPI
C-PSC,,PμPeC†C-PNēPSPsPiPs P·P°C...PIPsCḡCḡPIP°PSPSCf (P±C-P»CHḡ Cf PiPsCḡP»C-,
PiP°CḡCfC†PeCf).

P P°CfPsPIC- PsCfPsP±P»PēPIPsCfC,C-. P†PSPiC-P±C-C,PsCḡPē PḡPμPα C†P°CfC,C-CēPμ
CfPiCḡPēC†PēPSCfCḡC,CH PIPēPSPēPePSPμPSPSCf P°PSPiC-PsPSPμPICḡPsC,PēC†PSPsPiPs
PSP°P±CḡCfPeCf Cf PiP°C†C-C”PSC,C-PI PSPμPiCḡPsC—PrPSPsC— CḡP°CfPē, PSC-P¶ Cf
PiP°C†C-C”PSC,C-PI C-PSCePēC... CḡP°Cf. PμPμCḡPēPSPPrPsPiCḡPēP», CfPe C- C-PSCeC-
C-PSPiC-P±C-C,PsCḡPē PḡPμPα, PjPμPSCē PμC,,PμPeC,PēPIPsPs P·PSPēP¶CfC”
P°CḡC,PμCḡC-P°P»CHḡPSPēPNē C,PēCfPe Cf PiP°C†C-C”PSC,C-PI PSPμPiCḡPsC—PrPSPsC—
CḡP°CfPē, PSC-P¶ Cf PsCfC-P± C-PSCePēC... CḡP°Cf. P⊙Ps, PjPsP¶P»PēPIPs,
PiPsCfCfPSCḡC,CHḡCfCf PSPēP·CHḡPePēPj CḡC-PIPSPμPj CḡPμPSC-PSCf Cf PeCḡPsPIC-
PiP°C†C-C”PSC,C-PI P· P°CḡC,PμCḡC-P°P»CHḡPSPsCḡ PiC-PiPμCḡC,PμPSP·C-C”Cḡ Cf
C†C-C”C— PiPsPiCfP»CfC†C-C—.

P P°CēPμP»CHḡ. PμPsPIC-PrPsPjP»CfP»PsCfCf PiCḡPs PIPēPSPēPePSPμPSPSCf PeP°CēP»Cḡ
PSP° C,P»C- C,PμCḡP°PiC-C— C-PSPiC-P±C-C,PsCḡP°PjPē PḡPμPα. P—P°
C...P°CḡP°PeC,PμCḡPēCfC,PēPeP°PjPē PeP°CēPμP»CHḡ C” PSPμPiCḡPsPrCfPeC,PēPIPsPēPj,
CfC,C-PNēPePēPj C,P° PiCḡPēPiPēPSCfC”C,CHḡCfCf PiC-CfP»Cf PIC-PrPjC-PSPē
PiCḡPμPiP°CḡP°C,Cf. P P°CēPμP»CHḡ, CfPiCḡPēC†PēPSPμPSPēPNē PiCḡPēPNēPsPjPsPj
C-PSPiC-P±C-C,PsCḡC-PI PḡPμPα, PiPsC,CḡC-P±PSPs PICḡP°C...PsPICfPIP°C,Pē PiC-Pr C†P°Cf
PiCḡPsPiPμPrPμPSPSCf PrPēC,,PμCḡPμPSC†C-PNēPSPsPiPs PrC-P°PiPSPsP·Cf PeP°CēP»Cḡ.

PμCḡPē C...C-CḡCfCḡPiC-C†PSPsPjCf PIC,CḡCfC†P°PSPSC- P°P±Ps PiC-Pr C†P°Cf
PiCḡPsPiPμPrPμPSPSCf P°PSPμCfC,PμP·C-C— PiCḡPμPiP°CḡP°C,P°PjPē, C%Ps
PIPēPeP»PēPeP°CḡC,CH P°CḡC,PμCḡC-P°P»CHḡPSCf PiC-PiPsC,PμPSP·C-Cḡ,
PiPμCḡPēPSPPrPsPiCḡPēP» PjPsP¶Pμ P±P»PsPeCfPIP°C,Pē PIC,PsCḡPēPSPSPμ
CfC,PIPsCḡPμPSPSCf P°PSPiC-PsC,PμPSP·PēPSCf P†P† Cf PIC-PrPiPsPIC-PrCḡ PSP°
PePsPjPiPμPSCfP°C,PsCḡPSPμ PIPēPIC-P»CHḡPSPμPSPSCf CḡPμPSC-PSCf. PμCḡPμPiP°CḡP°C,
CfP»C-Pr PIC-PrPjC-PSPēC,Pē P·P° PsPrPēPS PrPμPSCḡ PrPs C...C-CḡCfCḡPiC-C†PSPsPiPs
PIC,CḡCfC†P°PSPSCf. PiPeC%Ps CḡPsP·PIPēPSCfP»P°CfCf P°CḡC,PμCḡC-P°P»CHḡPSP°
PiC-PiPsC,PμPSP·C-Cf C- PIPiP°P¶P°C”C,CHḡCfCf, C%Ps PIPsPSP° CfPiCḡPēC†PēPSPμPSP°
CfP°PjPμ C†PēPj PjPμC...P°PSC-P·PjPsPj, CfC,P°PS C...PIPsCḡPsPiPs PjPsP¶PSP°
PSPsCḡPjP°P»C-P·CfPIP°C,Pē P·P±C-P»CHḡCēPμPSPSCfPj PsP±Bḡ™ C”PjCf
C†PēCḡPeCfP»CḡCḡC†PsC— PeCḡPsPIC-.

P“C-PiPμCḡPeP°P»C-C”PjC-Cḡ. Pj PrPμCḡPePëC... PiP°C†C-C”PSC,C-PI, CḡPeC-
P·P°CḡC,PsCḡPsPICrPIP°P»Pë C-PSPiC-P±C-C,PsCḡPë PḡPμPα, Cr C,PsPjCr C†PëCḡP»C-
PiPμCḡPëPSPPrPsPiCḡPëP», PIC-PrP·PSP°C†P°P»PsCḡCḡ P·P±C-P»CḡCεPμPSPSCḡ CḡC-PIPSCḡ
PeP°P»C-Cḡ Cr CḡPëCḡPsPIP°C,C†C- PeCḡPsPIC-. P†PSPiC-P±C-C,PsCḡPë PḡPμPα
PjPsPḡCḡC,Ch PIPëPeP»PëPeP°C,Pë PiC-PiPμCḡPeP°P»C-C”PjC-Cḡ, PsCḡPeC-P»CḡPePë
PiCḡPëPiPSC-C†CḡC,Ch PIPëPIC-P»CḡPSPμPSPSCḡ P°P»CḡPrPsCḡC,PμCḡPsPSCḡ. Pj
PiP°C†C-C”PSC,C-PI P· PSPsCḡPjP°P»CḡPSPsCḡ C,,CrPSPeC†C-C”Cḡ PSPëCḡPsPe C†PμPḡ
PμC,,PμPeC, P·P°P·PIPëC†P°Pḡ PSPμP·PSP°C†PSPëPḡ. P”Ps C,,P°PeC,PsCḡC-PI CḡPëP·PëPeCḡ
PIPëPSPëPePSPμPSPSCḡ PiC-PiPμCḡPeP°P»C-C”PjC-C— PSP°P»PμPḡP°C,Ch PSPëCḡPePsPIP°
PSPμPrPsCḡC,P°C,PSC-CḡC,Ch, PiPsCḡCḡPμPSPSCḡ C,,CrPSPeC†C-C— PSPëCḡPsPe, PIC-Pe
(PIC-Pr 70 CḡPsPeC-PI), C†CḡPeCḡPsPIPëPḡ PrC-P°P±PμC,, C-PSC,PμCḡPeCḡCḡPμPSC,PSC-
CḡC,P°PSPë, C,P°PeC- CḡPe PrPμPiC-PrCḡP°C,P°C†C-Cḡ, PiPsCḡC,CḡP° CḡPμCḡC†PμPIP°
PrPμPePsPjPiPμPSCḡP°C†C-Cḡ, PjPμC,P°P±PsP»C-C†PSPëPḡ P°C†PëPrPsP· C,P°
PsPrPSPsC†P°CḡPSPμ P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PeP°P»C-PḡP·P±PμCḡC-PiP°CḡC†PëC...
PrC-CḡCḡPμC,PëPeC-PI (PSP°PiCḡPëPeP»P°Pr, CḡPiC-CḡPsPSPsP»P°PeC,PsPSCḡ,
PμPiP»PμCḡPμPSPsPSCḡ, C,CḡPëP°PjC,PμCḡPμPSCḡ P°P±Ps P°PjC-P»PsCḡPëPrCḡ),
C...P°CḡC†PsPIPëC... PrPsP±P°PIPsPe, C%Ps PjC-CḡC,CḡC,Ch PeP°P»C-Pḡ, P°P±Ps
P·P°PjC-PSPSPëPeC-PI CḡPsP»C- P· PeP°P»C-C”Pj; P°P±Ps PiCḡPëPḡPsPj C-PSCεPëC...
PiCḡPμPiP°CḡP°C,C-PI, C%Ps CḡPiCḡPëC†PëPSCḡCḡC,Ch PiC-PrPIPëC%PμPSPSCḡ
PePsPSC†PμPSC,CḡP°C†C-C— PeP°P»C-Cḡ Cr CḡPëCḡPsPIP°C,C†C- PeCḡPsPIC-
(PSP°PiCḡPëPeP»P°Pr, PiPμPiP°CḡPëPSCḡ, PePs-C,CḡPëPjPsPeCḡP°P·PsP»Cḡ, C,P°PePsPḡ
PIC-PrPsPjPsPiPs CḡPe C,CḡPëPjPμC,PsPiCḡPëPj/CḡCḡP»CḡC,,P°PjPμC,PsPeCḡP°P·PsP»),
PsCḡPsP±P»PëPIPs P°PSC,P°PiPsPSC-CḡC,C-PI P°P»CḡPrPsCḡC,PμCḡPsPSCḡ P°P±Ps
P±P»PsPeP°C,PsCḡC-PI CḡPμC†PμPiC,PsCḡC-PI P°PSPiC-PsC,PμPSP·PëPSCḡ.
P—P°CḡC,PsCḡCḡPIP°PSPSCḡ C...P°CḡC†PsPIPëC... PrPsP±P°PIPsPe, C%Ps PjC-CḡC,CḡC,Ch
PeP°P»C-Pḡ, PeP°P»C-PḡP·P±PμCḡC-PiP°CḡC†PëC... PrC-CḡCḡPμC,PëPeC-PI P°P±Ps
P·P°PjC-PSPSPëPeC-PI CḡPsP»C- P· PeP°P»C-C”Pj, PsCḡPsP±P»PëPIPs Cr PiP°C†C-C”PSC,C-PI
C-P· PiPsCḡCḡPμPSPSCḡPjPë C,,CrPSPeC†C-C— PSPëCḡPsPe, PjPsPḡPμ PiCḡPëP·PIPμCḡC,Pë
PrPs P·PSP°C†PSPsPiPs PiC-PrPIPëC%PμPSPSCḡ CḡC-PIPSCḡ PeP°P»C-Cḡ Cr
CḡPëCḡPsPIP°C,C†C- PeCḡPsPIC-. P“C-PiPμCḡPeP°P»C-C”PjC-Cḡ PjPsPḡPμ
CḡPiCḡPëC†PëPSPëC,Pë PIPëPSPëPePSPμPSPSCḡ CḡPμCḡPḡPsP·PSPsC—, C-PSPsPrC-
P»PμC,P°P»CḡPSPsC— P°CḡPëC,PjC-C—. PḡP°C†C-C”PSC,P°Pj, CḡPeC- PiCḡPëPḡPjP°CḡC,Ch
C-PSPiC-P±C-C,PsCḡPë PḡPμPα, CḡP»C-Pr P· PsP±PμCḡPμPḡPSC-CḡC,Cḡ
PiCḡPëP·PSP°C†P°C,Pë PeP°P»C-PḡP·P±PμCḡC-PiP°CḡC†C- PrC-CḡCḡPμC,PëPePë C,P°
P±P»PsPeP°C,PsCḡPë CḡPμC†PμPiC,PsCḡC-PI P°PSPiC-PsC,PμPSP·PëPSCḡ, P° C,P°PePsPḡ
PiCḡPsPIPPrPëC,Pë CḡPμC,PμP»CḡPSPëPḡ PjPsPSC-C,PsCḡPëPSPi CḡC-PIPSCḡ PeP°P»C-Cḡ
Cr CḡPëCḡPsPIP°C,C†C- PeCḡPsPIC- C,P° C,,CrPSPeC†C-C— PSPëCḡPsPe. PiPeC%Ps
PsPrPSPsC†P°CḡPSPμ P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PiPμCḡPëPSPPrPsPiCḡPëP»Cḡ C,P°
P±CḡPrCḡ-CḡPePsC— P· PIPëC%PμP·P°P·PSP°C†PμPSPëC... CḡPμC†PsPIPëPS
PIPIP°PḡP°C”C,ChCḡCḡ PrPsCḡPμC†PSPëPj, C—C... CḡP»C-Pr P·P°CḡC,PsCḡPsPICrPIP°C,Pë P·
PsP±PμCḡPμPḡPSC-CḡC,Cḡ C,P° P· C†P°CḡC,PëPj PjPsPSC-C,PsCḡPëPSPiPsPj CḡC-PIPSCḡ
PeP°P»C-Cḡ Cr CḡPëCḡPsPIP°C,C†C- PeCḡPsPIC- (PrPëPI. CḡPsP·PrC-P» B«P’P·P°C”PjPsPrC-Cḡ
P· C-PSCεPëPjPë P»C-PeP°CḡCḡCḡPePëPjPë P·P°CḡPsP±P°PjPë C,P° C-PSCεC- PIPëPrPë
PIP·P°C”PjPsPrC-PḡB»).

PḡP°C†C-C”PSC,P°Pj, C...PIPsCḡPëPj PSP° C†CḡPeCḡPsPIPëPḡ PrC-P°P±PμC,, CḡPeC-
PiCḡPëPḡPjP°CḡC,Ch PiPμCḡPsCḡP°P»CḡPSC- C†CḡPeCḡPsP·PSPëPḡCḡPIP°P»CḡPSC-
P·P°CḡPsP±Pë P°P±Ps PsC,CḡPëPjCḡCḡC,Ch C-PSCḡCḡP»C-PS, PSPμPsP±C...C-PrPSPs
CḡPμC,PμP»CḡPSPs PePsPSC,CḡPsP»CḡPIP°C,Pë CḡC-PIPμPSCḡ PiP»C-PePμPjC-C—
PiCḡPsC,CḡPiPsPj PiPμCḡCεPsPiPs PjC-CḡCḡC†Cḡ C,PμCḡP°PiC-C—
C-PSPiC-P±C-C,PsCḡP°PjPë PḡPμPα (PrPëPI. CḡPsP·PrC-P» B«P’P·P°C”PjPsPrC-Cḡ P·

C-PSC€PëPjPë P»C-PeP°CĤCÍCHBPePëPjPë P·P°CÍPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»).

P»C-C,C-PNë. PĥPrPSPsC±P°CÍPSPëPNë PiCĤPëPNëPsPj P»C-C,C-CĤ C,P°
PiPμCĤPëPSPPrPsPiCĤPëP»CÍ P·P°P·PIPëC±P°PNë PSPμ CĤPμPePsPjPμPSPPrPsPIP°PSPëPNë (PrPëPI.
CĤPsP·PrC-P» B«P’P·P°C”PjPsPrC-CĬ P· C-PSC€PëPjPë P»C-PeP°CĤCÍCHBPePëPjPë
P·P°CÍPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»).

PĥPrPSPsC±P°CÍPSPμ P·P°CÍC,PsCÍCÍPIP°PSPSCĬ PiPμCĤPëPSPPrPsPiCĤPëP»CÍ P·
PeP°P»C-PNëP·P±PμCĤC-PiP°CĤC±PëPjPë PrC-CÍCĤPμC,PëPeP°PjPë, C...P°CĤC±PsPIPëPjPë
PrPsP±P°PIPeP°PjPë, C%oPs PjC-CÍC,CĬC,CH PeP°P»C-PNë, P°P±Ps C-P·
P·P°PjC-PSPSPëPeP°PjPë CÍPsP»C- P· PeP°P»C-C”Pj PSPμ CĤPμPePsPjPμPSPPrCÍC”C,CHCÍCĬ
(PrPëPI. CĤPsP·PrC-P» B«P’P·P°C”PjPsPrC-CĬ P· C-PSC€PëPjPë P»C-PeP°CĤCÍCHBPePëPjPë
P·P°CÍPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»).

PμPsPrPIC-PNëPSP° P±P»PsPeP°PrP° CĤPμPSC-PS-P°PSPiC-PsC,PμPSP·PëPS-
P°P»CHPrPsCÍC,PμCĤPsPSPsPIPsC— CÍPëCÍC,PμPjPë (P PĥPĥPŸ). P†CÍPSCÍCĤC,CH PrP°PSC-,
C%oPs PsPrPSPsC±P°CÍPSPëPNë PiCĤPëPNëPsPj C-PSPiC-P±C-C,PsCĤC-PI PĥPμPα,
P±P»PsPeP°C,PsCĤC-PI CĤPμC†PμPiC,PsCĤC-PI P°PSPiC-PsC,PμPSP·PëPSCÍ P†P† P°P±Ps
P°P»C-CÍPeC-CĤPμPSCÍ PiC-PrPIPëC%oCÍC” CĤPëP·PëPe PIPëPSPëPePSPμPSPSCĬ
P°CĤC,PμCĤC-P°P»CHPSPsC— PiC-PiPsC,PμPSP·C-C—, PiC-PiPμCĤPeP°P»C-C”PjC-C— C,P°
P·PSPëP¶PμPSPSCĬ C,,CÍPSPeC†C-C— PSPëCĤPsPe (PIPeP»CĤC±P°CĤC±Pë PiPsCÍC,CĤCÍ
PSPëCĤPePsPICÍ PSPμPrPsCÍC,P°C,PSC-CÍC,CH). PŸPsPjCÍ PiPsPrPIC-PNëPSP° P±P»PsPeP°PrP°
P PĥPĥPŸ C€P»CĬC...PsPj PsPrPSPsC±P°CÍPSPsPiPs PiCĤPëPNëPsPjCÍ C-PSPiC-P±C-C,PsCĤC-PI
PĥPμPα, P±P»PsPeP°C,PsCĤC-PI CĤPμC†PμPiC,PsCĤC-PI P°PSPiC-PsC,PμPSP·PëPSCÍ P†P†
P°P±Ps P°P»C-CÍPeC-CĤPμPSCÍ PSPμ CĤPμPePsPjPμPSPPrPsPIP°PSP° (PrPëPI. CĤPsP·PrC-P»
B«P’P·P°C”PjPsPrC-CĬ P· C-PSC€PëPjPë P»C-PeP°CĤCÍCHBPePëPjPë P·P°CÍPsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»). PiPeC%oPs P»C-PeCÍPIP°PSPSCĬ P·
PsPrPSPsC±P°CÍPSPëPj P·P°CÍC,PsCÍCÍPIP°PSPSCĬPj PrPIPsC... P±P»PsPeP°C,PsCĤC-PI
P PĥPĥPŸ PIPiP°P¶P°C”C,CHCÍCĬ P°P±CÍPsP»CĤC,PSPs PSPμPsP±C...C-PrPSPëPj, PIPsPSPs
PjPsP¶Pμ PIC-PrP±CÍPIP°C,PëCÍCĬ C,C-P»CHPePë PiC-Pr PSP°PiP»CĬPrPsPj
CÍPiPμC†C-P°P»C-CÍC,P° C,P° P·P° CÍPjPsPIPë C±P°CÍC,PsPiPs CĤPμC,PμP»CHPSPsPiPs
PjPsPSC-C,PsCĤPëPSPiCÍ C,,CÍPSPeC†C-C— PSPëCĤPsPe, CĤC-PIPSCĬ
PμP»PμPeC,CĤPsP»C-C,C-PI C,P° P°CĤC,PμCĤC-P°P»CHPSPsPiPs C,PëCÍPeCÍ.
P†PSPiC-P±C-C,PsCĤPë PĥPμPα C,P° P±P»PsPeP°C,PsCĤPë CĤPμC†PμPiC,PsCĤC-PI
P°PSPiC-PsC,PμPSP·PëPSCÍ P†P† PSPμ CÍP»C-Pr P·P°CÍC,PsCÍPsPICÍPIP°C,Pë
PsPrPSPsC±P°CÍPSPs PiP°C†C-C”PSC,P°Pj C-P· PrC-P°P±PμC,PëC±PSPsCĤ
PSPμC,,CĤPsPiP°C,C-C”CĤ.

PμPμCĤPIPëPSPSPëPNë P°P»CHPrPsCÍC,PμCĤPsPSC-P·Pj. PμP°C†C-C”PSC,Pë P·
PiPμCĤPIPëPSPSPëPj PiC-PiPμCĤP°P»CHPrPsCÍC,PμCĤPsPSC-P·PjPsPj P·P°P·PIPëC±P°PNë PSPμ
PIC-PrPiPsPIC-PrP°CĤC,CH PSP° P»C-PeCÍPIP°PSPSCĬ
P°PSC,PëPiC-PiPμCĤC,PμPSP·PëPIPSPëPjPë PiCĤPμPiP°CĤP°C,P°PjPë, CĬPeC- PrC-CĤC,CH
C€P»CĬC...PsPj PiCĤPëPiPSC-C±PμPSPSCĬ CĤPμPSC-PS-P°PSPiC-PsC,PμPSP·PëPSPsPIPsC—
CÍPëCÍC,PμPjPë. PŸPsPjCÍ C,P°PePëPj PiP°C†C-C”PSC,P°Pj P·P°CÍC,PsCÍPsPICÍPIP°C,Pë
PrP°PSPëPNë PiCĤPμPiP°CĤP°C, PSPμ CĤPμPePsPjPμPSPPrCÍC”C,CHCÍCĬ.

P”PsPiPsPjC-P¶PSC- CĤPμC±PsPIPëPSPë. P”Ps CÍPeP»P°PrCÍ PiCĤPμPiP°CĤP°C,CÍ
PIC...PsPrPëC,CH P»P°PeC,PsP·P°, C,PsPjCÍ PiP°C†C-C”PSC,P°Pj C-P· CĤC-PrPeC-CÍPSPsCĤ
CÍPiP°PrPePsPIPsCĤ PSPμPiPμCĤPμPSPsCÍPëPjC-CÍC,CĤ PiP°P»P°PeC,PsP·Pë,
CÍPëPSPPrCĤPsPjPsPj PjP°P»CHP°P±CÍPsCĤP±C†C-C— PiP»CĤPePsP·Pë-PiP°P»P°PeC,PsP·Pë
P°P±Ps PiPsPIPSPsCĤ P»P°PeC,P°P·PSPsCĤ PSPμPrPsCÍC,P°C,PSC-CÍC,CĤ PSPμ

**P—PrP°C,PSC—CÍC,CH PIPiP»PëPIP°C,Pë PSP° CëPIPëPrPëC—CÍC,CH CĤPμP°PëC†C—
PïCĤPë PëPμCĤCžPIP°PSPSC- P°PIC,PsC,CĤP°PSCÍPïPsCĤC,PsPj P°P±Ps C—PSCëPëPjPë
PjPμC...P°PSC—P·PjP°PjPë**

PμPμCĤPëPSPPrPsPïCĤPëP»CÍ C,PμCĤC,-P±CÍC,PëP»P°PjC—PS PSPμ PjP°C” PïCĤCĬPjPsPiPs
PIPiP»PëPICÍ PSP° P·PrP°C,PSC—CÍC,CH PëPμCĤCÍPIP°C,Pë C,CĤP°PSCÍPïPsCĤC,PSPëPjPë
P·P°CÍPsP±P°PjPë C,P° PIPëPëPsCĤPëCÍC,PsPICÍPIP°C,Pë PjPμC...P°PSC—P·PjPë. PĥP»Pμ CÍ
PrPμCĬPëPëC... PïP°C†C—C”PSC,C—PI PjPsP¶CÍC,CH PIPëPSPëPëP°C,Pë
C—PSPPrPëPIC—PrCÍP°P»CHPSC- CĤPμP°PëC†C—, PïPsPïBĤ™ CĬP·P°PSC- P·C—
P·PSPëP¶PμPSPSCĬPj P°CĤC,PμCĤC—P°P»CHPSPsPiPs C,PëCÍPëCÍ, PsCÍPsP±P»PëPIP s PSP°
PïPsC†P°C,PeCÍ P»C—PeCÍPIP°PSPSCĬ P°P±Ps PïCĤPë PsPrPSPsC†P°CÍPSPsPjCÍ
P·P°CÍC,PsCÍCÍPIP°PSPSC- P· C—PSCëPëPjPë P°PSC,PëPiC—PïPμCĤC,PμPSP·PëPIPSPëPjPë
PïCĤPμPïP°CĤP°C,P°PjPë. PïPë CĤPμP·CÍP»CHC,P°C,, P·PrP°C,PSC—CÍC,CH PëPμCĤCÍPIP°C,Pë
C,CĤP°PSCÍPïPsCĤC,PSPëPjPë P·P°CÍPsP±P°PjPë P°P±Ps PIPëPëPsCĤPëCÍC,PsPICÍPIP°C,Pë
PjPμC...P°PSC—P·PjPë PjPsP¶Pμ P±CÍC,Pë PïPsCĤCÍCëPμPSP°.

PŸPïPsCÍC—P± P·P°CÍC,PsCÍCžPIP°PSPSCĬ C,P° PrPsP·Pë

P”P»CĬ PïPμCĤP sCĤP°P»CHPSPsPiPs P·P°CÍC,PsCÍCÍPIP°PSPSCĬ.

PŸP°P±P»PμC,PePë PμCĤPμPSPμP»C—CĬ^B, 4 PjPi, PïC—PrP»CĬPïP°CĤC,CH PïPsPrC—P»CÍ
(PjP°CĤC,CH CĤPëCÍPëCÍ PrP»CĬ PïPsPrC—P»CÍ).

PŸP°P±P»PμC,PePë PμCĤPμPSPμP»C—CĬ^B, 8 PjPi, PSPμ PïC—PrP»CĬPïP°CĤC,CH PïPsPrC—P»CÍ.

PŸP°P±P»PμC,PePë CĤPμPëPsPjPμPSPPrPsPIP°PSPs PïCĤPëPNëPjP°C,Pë 1 CĤP°P· PSP° PrPsP±CÍ,
PICĤP°PSC†C-, PïPμCĤPμPr PIP¶PëPIP°PSPSCĬPj C—P¶C-.

P”PsP·CÍ CÍP»C—Pr PïC—PrP±PëCĤP°C,Pë C—PSPPrPëPIC—PrCÍP°P»CHPSPs, P·P°P»PμP¶PSPs
PIC—Pr PïCĤP sC,,C—P»CĤ PïP°C†C—C”PSC,P°, PïPsPëP°P·PSPëPëC—PI
P°CĤC,PμCĤC—P°P»CHPSPsPiPs C,PëCÍPëCÍ C,P° PIC—PrPïPsPIC—PrC— PSP°
P»C—PeCÍPIP°PSPSCĬ (PrPëPI. CĤPsP·PrC—P» B«PĥCÍPsP±P»PëPIP sCÍC,C—
P·P°CÍC,PsCÍCÍPIP°PSPSCĬB»).

PĥCĤC,PμCĤC—P°P»CHPSP° PïC—PïPμCĤC,PμPSP·C—CĬ

PμPμCĤPëPSPPrPsPïCĤPëP»CÍ C,PμCĤC,-P±CÍC,PëP»P°PjC—PS PjPsP¶PSP° PïCĤPëP·PSP°C†P°C,Pë
CĬPë PjPsPSPsC,PμCĤP°PïC—CĤ P°P±Ps CÍ PëPsPjP±C—PSP°C†C—C— P· PïCĤPμPïP°CĤP°C,P°PjPë
C—PSCëPëC... PëP»P°CÍC—PI P°PSC,PëPiC—PïPμCĤC,PμPSP·PëPIPSPëC... P·P°CÍPsP±C—PI.

P PμPëPsPjPμPSPPrPsPIP°PSP° PïPsC†P°C,PePsPIP° PrPsP·P° CÍC,P°PSPsPIPëC,CH 4 PjPi,
PïCĤPëPNëPjP°CĤC,CH 1 CĤP°P· PSP° PrPsP±CÍ, PICĤP°PSC†C-.

PμP°C†C—C”PSC,Pë P· PIPëCÍPsPëPsCĤ P°PëC,PëPIPSC—CÍC,CĤ P PĥPĥPŸ (PsCÍPsP±P»PëPIP s
PïP°C†C—C”PSC,Pë P· CĤPμPSPsPIP°CÍPëCÍP»CĬCĤPSPsCĤ PïC—PïPμCĤC,PμPSP·C—C”CĤ,
PïPsCĤCÍCëPμPSPSCĬPj PIPsPrPSPs—PμP»PμPëC,CĤPsP»C—C,PSPsPiPs P±P°P»P°PSCÍCÍ,
CÍPμCĤC†PμPIP sCĤ PrPμPëPsPjPïPμPSCÍP°C†C—C”CĤ P°P±Ps C,CĬP¶PëPsCĤ
P°CĤC,PμCĤC—P°P»CHPSPsCĤ PïC—PïPμCĤC,PμPSP·C—C”CĤ) PjPsP¶CÍC,CH P·P°P·PSP°C,Pë
PSP°PrPjC—CĤPSPsPiPs P·PSPëP¶PμPSPSCĬ P°CĤC,PμCĤC—P°P»CHPSPsPiPs C,PëCÍPëCÍ
PïC—CÍP»CĬ PïCĤPëPNëPsPjCÍ PïPμCĤCëPsC— PrPsP·Pë. PŸP°PëPëPj PïP°C†C—C”PSC,P°Pj
CĤPμPëPsPjPμPSPPrCÍC”C,CHCÍCĬ CĤPsP·PïPsC†PëPSP°C,Pë P»C—PeCÍPIP°PSPSCĬ P· PrPsP·Pë
2 PjPi (½ C,P°P±P»PμC,PePë PïCĤPμPïP°CĤP°C,CÍ PμCĤPμPSPμP»C—CĬ^B, 4 PjPi) C,P°

Рѹ°С†С-С"РSC,Р°Рј С-Р· С,СІР¶РѹРѹСѢ СІРѹСѢС†РѹРІРѹСѢ РSPРѹРѹСѢСІС,Р°С,РSC-СІС,СѢ С,Р° С-РSC€РѢРј РІР°С†С-С"РSC,Р°Рј С-Р· РІСѢСІРІРѢ РІРѢСІРѹРѹРѹРѹСѢ СѢРѢР·РѢРѢСІ (РІР°С†С-С"РSC,РѢ С-Р· РІРѹСѢСІС€РѹРSPSCІРјРѢ С,СІРѹРѹСѢС†С-С— РSPѢСѢРѹРѹ С,Р° С,РѹРSPРѹРѹРSC†С-С"СѢ РѹРѹ РІРѹСѢСІС€РѹРSCѢ СѢС-РІРSCІ РѹР»РѹРѢС,СѢРѹР»С-С,С-РІ, РІР°С†С-С"РSC,РѢ, СІРѹРѢС- РSC,СѢРѢРјСІСѢС,СѢ РSPРѹРѹС†Р°СІРSCІ С,РѹСѢР°РІС-СѢ РѹС-СІСѢРѹС,РѢРѢР°РјРѢ С,Р°/Р°Р±Рѹ РІР°Р·РѹРѹРѢР»Р°С,Р°С,РѹСѢР°РјРѢ) Р»С-РѢСІРІР°РSPSCІ СІР»С-Рѹ СѢРѹР·РІРѹС†РѢРSP°С,РѢ РІС-Рѹ СѢРѹС,РѹР»СѢРSPѢРј РјРѹРѹРѢС†РSPѢРј РSP°РІР»СІРѹРѹРј (РѹРѢРІ. СѢРѹР·РѹС-Р» В«РѢСІРѹРѹР»РѢРІРѹСІС,С- Р°СІС,РѹСІСІРІР°РSPSCІВ»).

Рј РІР°С†С-С"РSC,С-РІ Р· РІРѢСІРѹРѹРѢРј СѢРѢР·РѢРѢРѹРѹ РІРѢРSPѢРѢРSPРѹРSPSCІ СІРѢРјРІС,РѹРјР°С,РѢС†РSPРѹС— Р°СѢС,РѹСѢС-Р°Р»СѢРSPРѹС— РІС-РІРѹС,РѹРSP·С-С—, Р° СІР°РјРѹ СІ РІР°С†С-С"РSC,С-РІ Р· РѹРѹС,С-С†РѢС,РѹРј РѹР»РѹРѢС,СѢРѹР»С-С,С-РІ, Р· РІС-РІРѹРSP°С,СѢС-С"РјС-С"СѢ Р°Р±Рѹ Р±РѹР· РSPРѹС—, РІР°С†С-С"РSC,С-РІ С-Р· РІС-РІРѹРІРѹР»РѹРјС-С"СѢ Р°Р±Рѹ С,РѢС..., С...С,Рѹ РѹС,СѢРѢРјСІРІР°РІ С-РSC,РѹРSPСІРѢРІРSCІ С,РѹСѢР°РІС-СѢ РѹС-СІСѢРѹС,РѢРѢР°РјРѢ, СІР»С-Рѹ РІСѢРѹРІРѹСІС,РѢ РѢРѹСѢРѹРѢС†С-СѢ РІРѢС%РѹР·Р°Р·РSP°С†РѹРSPѢС... СІС,Р°РSC-РІ, СІРѢС%Рѹ РјРѹР»РѢРІРѹ, РѹРѹ РІСѢРѢР·РSP°С†РѹРSPSCІ РІСѢРѹРІР°СѢР°С,СІ. РѢСѢС,РѹСѢС-Р°Р»СѢРSPѢРѢ С,РѢСІРѢ, С,СІРѹРѹС†С-СѢ РSPѢСѢРѹРѹ С,Р° СѢС-РІРѹРSCѢ РѢР°Р»С-СѢ СІРѢСѢРѹРІР°С,С†С- РѢСѢРѹРІС- РІРѹС,СѢС-Р±РSPС СѢРѹС,РѹР»СѢРSPС РѢРѹРSPC,СѢРѹР»СѢРІР°С,РѢ СІРѢ РѹРѹ, С,Р°РѢ С- РІС-Рѹ С†Р°СІ Р»С-РѢСІРІР°РSPSCІ (РѹРѢРІ. СѢРѹР·РѹС-Р» В«РѢСІРѹРѹР»РѢРІРѹСІС,С- Р°СІС,РѹСІСІРІР°РSPSCІВ»).

Р—Р°РІРѹРѹС†С-РІР°РSPSCІ РІРѢРSPѢРѢРSPРѹРSPSCѢ РІРѹРІС,РѹСѢРSPРѹРІРѹ С-РSCІСІР»СѢС,СІ СІ РІР°С†С-С"РSC,С-РІ Р· С†РѹСѢРѹРѹС†СѢРѹРІР°СІРѢСІР»СІСѢРSPѢРјРѢ Р°С...РІРѹСѢСѢРІР°РSPSCІРјРѢ

Р РѹРѢРѹРјРSPРѹРІР°РSP° РІРѹС†Р°С,РѢРѹРІР° РѹРѹР·Р° СІС,Р°РSPРѹРѢС,СѢ 2 РјРІ (1/2 С,Р°Р±РѹРѹС,РѢРѢ РІСѢРѹРІР°СѢР°С,СІ РѹСѢРѹРSPРѹР»С-СІ^В, 4 РјРІ) 1 СѢР°Р· РSP° РѹРѹРѢСІ, РІСѢР°РSC†С-. РѹС-СІР»СІ 2 С,РѢР¶РSC-РІ Р»С-РѢСІРІР°РSPSCІ РѹРѹР·СІ Р·РѢС-Р»СѢС€СІСѢС,СѢ РѹРѹ 4 РјРІ (1 С,Р°Р±РѹРѹС,РѢР° РІСѢРѹРІР°СѢР°С,СІ РѹСѢРѹРSPРѹР»С-СІ^В, 4 РјРІ) 1 СѢР°Р· РSP° РѹРѹРѢСІ, РІСѢР°РSC†С-.

РІРѢС%Рѹ РІС-СІР»СІ 2 С,РѢР¶РSC-РІ Р»С-РѢСІРІР°РSPSCІ РІСѢРѹРІР°СѢР°С,РѹРј РѹСѢРѹРSPРѹР»С-СІ^В, 4 РјРІ, РІР°С†С-С"РSC, РІРѹС,СѢРѹРѹС†СІС" РѹРѹРѹР°С,РѢРѹРІРѹРѹ РѢРѹРSPC,СѢРѹР»СѢ Р°СѢС,РѹСѢС-Р°Р»СѢРSPРѹРѹ С,РѢСІРѢСІ, РјРѹР»РSP° РІСѢРѢР·РSP°С†РѢС,РѢ С-РSPР°РІР°РјС-Рѹ СІ РѹРѹР·С- 1 С,Р°Р±РѹРѹС,РѢР° РSP° РѹРѹРSCѢ. Р»С-РѢСІРІР°РSPSCІ РјРѹР»РSP° СѢРѹР·РІРѹС†РѢРSP°С,РѢ Р±СІРѹСѢ-РѢРѹР»РѢ СІ С,РѹСѢРјС-Рѹ РІС-Рѹ 2 С,РѢР¶РSC-РІ РѹРѹ РѢС-Р»СѢРѢРѹС... СѢРѹРѢС-РІ РІС-СІР»СІ РІРѹСѢРІРѢРSPРѹРІРѹ С-РSCІСІР»СѢС,СІ.

Р—Р°РІРѹРѹС†С-РІР°РSPSCІ СІРѹСѢС†РѹРІРѹС-СІСІРѹРѢРSPSPѢРј СІСІРѢР»Р°РSPРѹРSPSCІРј СІ РІР°С†С-С"РSC,С-РІ Р· РѹРѹРѢСІРјРѹРSC,Р°Р»СѢРSPС РІС-РѹС,РІРѹСѢРѹР»РѹРSPРѹСѢ СІС,Р°Р±РѹС-Р»СѢРSPСѢ С-С€РѹРјС-С†РSPСѢ С...РІРѹСѢРѹРѹСѢ СІРѹСѢС†СІ

Р"РѹРІРѹС,СѢРѢРІР°Р»Рѹ Р»С-РѢСІРІР°РSPSCІ РІСѢРѹРІР°СѢР°С,РѹРј РѹСѢРѹРSPРѹР»С-СІ^В, 8 РјРІ (1 С,Р°Р±РѹРѹС,РѢР° РSP° РѹРѹРѢСІ), Р·РSPѢР»СІС" СѢРѢР·РѢРѢ С-РSC,Р°СѢРѢС,СІ РјС-РѹРѢР°СѢРѹР° С,Р° СІРѹСѢС†РѹРІРѹС— РSPРѹРѹСІС,Р°С,РSPСІС,С- (Р·Р° СѢРѹР·СІР»СѢС,Р°С,Р°РјРѢ 4-СѢС-С†РSPРѹРѹ РѹРѹСІР»С-РѹР»РѹРSPSCІ EUROPA).

Р»С-РѢСІРІР°РSPSCІ СІР»С-Рѹ СѢРѹР·РІРѹС†РѢРSP°С,РѢ Р· РІСѢРѹРІР°СѢР°С,СІ РѹСѢРѹРSPРѹР»С-СІ^В, 4 РјРІ (1 С,Р°Р±РѹРѹС,РѢР° РSP° РѹРѹРѢСІ, РІСѢР°РSC†С-). РѹРѹСѢРѹР·

2 C, PEP PSC- P·P° C r Pj Ps PIPe Pr Ps P ± C H Ps C — Pi P μ C H P μ P S P S C r P e P j Ps C r C, C- C, P° P· C r C H P° C... C r PIP° P S P S C I P j C,, C r P S P e C t C- C — P S P e C H P s P e Pr Ps P· C r Pi C- Pr PIP e C % C r C H C, C H Pr Ps 8 P j P i Pr P » C I Pr Ps PIP i P s C, C H P e PIP° P » P s P i P s Pi C H P e P N e P s P j C r Pi C H P μ P i P° C H P° C, C r P μ C H P μ P S P μ P » C- C I B®, 8 P j P i, 1 C, P° P ± P » P μ C, P e P° P S P° Pr Ps P ± C r, P i C H P° P S C t C-.

P μ P° C t C- C" P S C, P° P j P » C- C, P S C H P s P i P s P i C- P e C r, C r C I P e P e C... Pr Ps P e C r P j P μ P S C, P° P » C H P S P s P i C- P r C, P I P μ C H P r P P μ P S P° P t P r P Ÿ, P » C- P e C r PIP° P S P S C I C r P » C- P r C H P s P· P i P s C t P e P S P° C, P e P· Pr Ps P· P e 2 P j P i (1/2 C, P° P ± P » P μ C, P e P e Pi C H P μ P i P° C H P° C, C r P μ C H P μ P S P μ P » C- C I B®, 4 P j P i) 1 C H P° P· P S P° Pr Ps P ± C r, P i C H P° P S C t C-; C t P μ C H P μ P· C, P e P P r P μ P S C H Pr Ps P· C r Pi C- Pr PIP e C % C r C H C, C H Pr Ps 4 P j P i (1 C, P° P ± P » P μ C, P e P° Pi C H P μ P i P° C H P° C, C r P μ C H P μ P S P μ P » C- C I B®, 4 P j P i); C t P μ C H P μ P· 2 C, P e P P r P μ P S C H Pr Ps P· C r Pi C- Pr PIP e C % C r C H C, C H Pr Ps 8 P j P i (P μ C H P μ P S P μ P » C- C I B®, 8 P j P i, 1 C, P° P ± P » P μ C, P e P° P S P° Pr Ps P ± C r) (Pr P e P I. C, P° P ± P » P e C t C H 1) Pr P » C I Pr Ps PIP i P s C, C H P e PIP° P » P s P i P s P » C- P e C r PIP° P S P S C I. P μ C- P r PIP e C % P μ P S P S C I Pr Ps P· P e P j P s P P » P e PIP μ C, C- P » C H P e P e P· P· P° C r P j P s PIP e Pr Ps P ± C H P s C — Pi P μ C H P μ P S P S C r P e P j P s C r C, C- P i P s P i P μ C H P μ P r P S C H P s C — Pr Ps P· P e.

P h C r P s P ± P » P e P i C- P i C H C a P i P e P i P° C t C- C" P S C, C- P I

P μ P° C t C- C" P S C, P e P· P S P e C H P e P s PIP s C H P S P μ P r P s C r C, P° C, P S C- C r C, C H

P" P s P· C r PIP° P S P S C I Pr P » C I P i P° C t C- C" P S C, C- P I P· P S P e C H P e P s PIP s C H P S P μ P r P s C r C, P° C, P S C- C r C, C H P j P° C" P ± P° P· C r PIP° C, P e C r C I P S P° P e P » C- C H P μ P S C r C- P e C H P μ P° C, P e P S C- P S C r, C I P e P· P° P· P S P° C t P μ P S P s C r C, P° P ± P » P e C t C- 1.

P Ÿ P° P ± P » P e C t C I 1

P μ C- P r P ± C- C H Pr Ps P· Pi C H P e P S P e C H P e P s P i C- P N e P S P μ P r P s C r C, P° C, P S P s C r C, C-

P μ P » C- C H P μ P S C r P e C H P μ P° C, P e P S C- P S C r (P j P » / C... P I)	P P μ P e P s P j P μ P S P r P s PIP° P S P μ P r P s P· C r PIP° P S P S C I
$Cl_{CR} \geq 60$	4 P j P i P S P° Pr Ps P ± C r
$30 < Cl_{CR} < 60$	2 P j P i P S P° Pr Ps P ± C r
$15 < Cl_{CR} < 30$	2 P j P i C t P μ C H P μ P· Pr Ps P ± C r
P μ P° C t C- C" P S C, P e, C I P e C- P i P μ C H P μ P ± C r PIP° C H C, C H P S P° P i P μ P j P s P r C- P° P » C- P· C-*	
$Cl_{CR} < 15$	2 P j P i P S P° Pr Ps P ± C r P i C H P s PIP μ P r P μ P S P S C I Pr C- P° P » C- P· C r

P" P° C- P° P » C- P· P S P e P N e P e P » C- C H P μ P S C r P i P μ C H P e P S P r P s P i C H P e P » P° C, C r 70 P j P » / C... P I. P μ P° C t C- C" P S C, P° P j, C I P e C- P i P μ C H P μ P ± C r PIP° C H C, C H P S P° P i P μ P j P s P r C- P° P » C- P· C-, Pr Ps P· C r C r P » C- P r Pi C H P e P N e P j P° C, P e Pi C- C r P » C I Pi C H P s PIP μ P r P μ P S P S C I P i P μ P j P s P r C- P° P » C- P· C r.

P μ P° C t C- C" P S C, P e P· P i P μ C t C- P S P e P s PIP s C H P S P μ P r P s C r C, P° C, P S C- C r C, C H

P μ P° C t C- C" P S C, P e P· P i P μ C t C- P S P e P s PIP s C H P S P μ P r P s C r C, P° C, P S C- C r C, C H P S P μ P i P s C, C H P μ P ± C r C H C, C H Pi C- P r P ± P s C H C r Pr Ps P· P e Pi C H P μ P i P° C H P° C, C r (Pr P e P I. C H P s P· P r C- P » P e B « P x P° C H P j P° P e P s P e C- P S P μ C, P e P e P° B » C, P° B « P h C r P s P ± P » P e PIP s C r C, C- P· P° C r C, P s C r C r PIP° P S P S C I B »).

P''C-C,Pë

P•C,,PµPeC,PëPIPSC-CÍC,CH C,P° P±PµP·PìPµPeP° P·P°CÍC,PsCÍCíPIP°PSPSCÍ
P»C-PeP°CÍCÍCHPePsPiPs P·P°CÍPsP±Cí PrC-C,CÍPj PIC-PePsPj PrPs 18 CÍPsPeC-PI
PSPµ PICÍC,P°PSPsPIP»PµPSP°. PÿPsPjCí PìPµCÍPëPSPPrPsPìCÍPëP»Cí C,PµCÍC,-
P±CíC,PëP»P°PjC-PS PSPµ CÍPµPePsPjPµPSPPrCíC''C,CHCÍCÍ PìCÍPëP·PSP°C±P°C,Pë
PrC-C,CÍPj.

PµPµCÍPµPrPsP·CíPIP°PSPSCÍ

P†PSC,,PsCÍPjP°C†C-C— PìCÍPs PìPµCÍPµPrPsP·CíPIP°PSPSCÍ PìPµCÍPëPSPPrPsPìCÍPëP»Cí
PSPµPrPsCÍC,P°C,PSCÍPs. PÿPëPjPìC,PsPjPë, PìPsPìBÍ™ CÍP·P°PSC- P·
PìPµCÍPµPrPsP·CíPIP°PSPSCÍPj C-PSPiC-P±C-C,PsCÍC-PI PñPµPα, PjPsP¶CíC,CH P±CíC,Pë
PSP°CÍC,CíPìPSPëPjPë: P°CÍC,PµCÍC-P°P»CHPSP° PiC-PìPsC,PµPSP·C-CÍ,
C†PëCÍPeCíP»CÍC,PsCÍPSPëPñ CëPsPe, PìPsCÍCíCëPµPSPSCÍ
PµP»PµPeC,CÍPsP»C-C,PSPsPiPs P±P°P»P°PSCÍCí, PSPëCÍPePsPIP°
PSPµPrPsCÍC,P°C,PSC-CÍC,CH, PiC-PìPµCÍPIPµPSC,PëP»CÍC†C-CÍ, C,P°C...C-PeP°CÍPrC-CÍ,
PìCÍPëCÍPePsCÍPµPSPµ CÍPµCÍC†PµP±PëC,C,CÍ, P±CÍP°PrPëPeP°CÍPrC-CÍ,
P·P°PìP°PjPsCÍPsC±PµPSPSCÍ, C,CÍPëPIPsPiP°, PeP°CëPµP»CH.

PµCÍPë PìPµCÍPµPrPsP·CíPIP°PSPSC- CÍPµPePsPjPµPSPPrCíC''C,CHCÍCÍ
PIPSCíC,CÍC-CëPSCÍPsPIPµPSPSPµ PìPµPrPµPSPSCÍ CÍPsP·C±PëPSCí PSP°C,CÍC-CÍ
C...P»PsCÍPëPrCí 0,9 % (9 PjPi/PjP»). Pj PIPëPìP°PrPeCí PIPëPSPëPePSPµPSPSCÍ
P°CÍC,PµCÍC-P°P»CHPSPsC— PiC-PìPsC,PµPSP·C-C— PìP°C†C-C''PSC,Cí
PSPµPsP±C...C-PrPSPs PSP°PrP°C,Pë PìPsCÍPëP·PsPSC,P°P»CHPSPµ PìPsP»PsP¶PµPSPSCÍ P·
PSPëP·CHPePëPj CíP·PìPsP»C-PIBÍ™ CÍPj. Pj CÍP°P·C- PjPsP¶P»PëPIPsCÍC,C- CÍP»C-Pr
P·P°P±PµP·PìPµC±PëC,Pë PìP°C†C-C''PSC,Cí C-PSC,,CíP·C-C— P°PSPiC-PsC,PµPSP·PëPSCí P†P†
C,P°/P°P±Ps PIPSCíC,CÍC-CëPSCÍPsPIPµPSPSPµ PìPµPrPµPSPSCÍ
PeP°C,PµC...PsP»P°PjC-PSC-PI. PµPµCÍPëPSPPrPsPìCÍPëP» PjPsP¶PSP° PIPëPrP°P»PëC,Pë C-P·
CÍPëCÍC,PµPjPSPsPiPs PeCÍPsPIPsPsP±C-PiCí P·P° PrPsPìPsPjPsPiPsCÍ
PìPµPjPsPrC-P°P»C-P·Cí (PrPëPI. CÍPsP·PrC-P» B«PñCÍPsP±P»PëPIPsCÍC,C-
P·P°CÍC,PsCÍCíPIP°PSPSCÍB»). Pj CÍP°P·C- PIPëPSPëPePSPµPSPSCÍ
CÍPµP·PëCÍC,PµPSC,PSPsC— PrPs P»C-PeCíPIP°PSPSCÍ P±CÍP°PrPëPeP°CÍPrC-C—
PìPsPeP°P·P°PSPµ PIPëPePsCÍPëCÍC,P°PSPSCÍ CëC,CíC±PSPsPiPs PIPsPrC-CÍ CÍPëC,PjCí.
PíPµPsP±C...C-PrPSPs PICÍC,P°PSPsPIPëC,Pë PìPsCÍC,C-PMëPSPëPñ PjPsPSC-C,PsCÍPëPSPi P·P°
PsCÍPSPsPIPSPëPjPë PìPsPeP°P·PSPëPeP°PjPë P¶PëC,C,C''PrC-CÍP»CHPSPsCÍC,C-,
PePsPSC†PµPSC,CÍP°C†C-C''CÍ PµP»PµPeC,CÍPsP»C-C,C-PI C,P° PeCÍPµP°C,PëPSC-PSCí PI
CÍPëCÍPsPIP°C,C†C- PeCÍPsPIC-.

PµPsP±C-C±PSC- CÍPµP°PeC†C-C—

PµCÍPsC,,C-P»CH P±PµP·PìPµPePë PìPµCÍPëPSPPrPsPìCÍPëP»Cí PIC-PrPìPsPIC-PrP°C''
PìCÍPsC,,C-P»CÍ P±PµP·PìPµPePë C-PSPiC-P±C-C,PsCÍC-PI PñPµPα. PíP°PñC±P°CÍC,C-CëC-
PìPsP±C-C±PSC- CÍPµP°PeC†C-C—, PìCÍPs CÍPeC- PìPsPIC-PrPsPjP»CÍP»PsCÍCÍ PìC-Pr
C±P°Cí PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PµPSCÍ PìPµCÍPëPSPPrPsPìCÍPëP»Cí:
P·P°PìP°PjPsCÍPsC±PµPSPSCÍ, PìPsP»PsPIPSPëPñ P±C-P»CH, PìP°CÍPµCÍC,PµP·C-C—,

PIP_μCT₃C, PëPiPs, PiPsCT₃CfCεP_μPSPSC_Π P·PsCT₃Cf, PrP·PIC-PS Cf PICfC...P°C..., P°CCT₃C, P_μCT₃C-P°P»CH₃PSP° PiC-PiPsC, P_μPSP·C-CT₃, PeP°CεP_μP»CH₃, P·P°PrPëCεPeP°, P±C-P»CH₃ Cf P¶PëPIP₃C, C-, P·P°PiPsCT₃, PrC-P°CCT₃P_μCT₃, CfPiPsC, PIP₃CT₃P_μPSPSC_Π CfPjP°PeCf (PrPëCfPiP_μPIP·C-CT₃), PrPëCfPiP_μPiCfC-CT₃, PSCfPrPsC, P°, P±P»CT₃PIP°PSPSC_Π, CfPIP_μCT₃P±C-P¶, PIPëCfPëPiP°PSPSC_Π, PjP°PeCfP»PsPiP°PiCfP»CH₃PsP·PSC-PIPëCfPëPiP°PSPSC_Π, CfCfPrPsPjPë PjB₃™ CT₃P·C-PI C, P° P°CfC, P_μPSC-CT₃.

P_μC-Pr C±P°Cf PeP»C-PSC-C±PSPëC... PrPsCfP»C-PrP¶P_μPSCH₃ C, P° PiC-CfP»CT₃CT₃P_μC”CfC, CT₃P°C†C-PNεPSPsPiPs P·P°CfC, PsCfCfPIP°PSPSC_Π PiP_μCT₃PëPSPPrPsPiCCT₃PëP»Cf CfPiPsCfC, P_μCT₃C-PiP°P»PëCfC_Π PSPëP¶C±P_μP·P°P·PSP°C±P_μPSC-PiPsP±C-C±PSC- CT₃P_μP°PeC†C-C— P· C, P°PePsCT₃ C±P°CfC, PsC, PsCT₃ PIPëPSPëPePSP_μPSPSC_Π: PrCfP¶P_μ C±P°CfC, Ps (≥ 1/10); C±P°CfC, Ps (≥ 1/100, < 1/10); PSP_μC±P°CfC, Ps (≥ 1/1000, < 1/100); CT₃C-PrPePs (≥ 1/10000, < 1/1000); PrCfP¶P_μ CT₃C-PrPePs (< 1/10000); C±P°CfC, PsC, P° PSP_μPIC-PrPsPjP° (PSP_μ PjPsP¶P_μ P±CfC, Pë PIPëP·PSP°C±P_μPSP° P·PiC-PrPSPs P·PSP°C_ΠPIPSPsCT₃ C-PSC,, PsCT₃PjP°C†C-C”CT₃), CT₃Pe P·P°P·PSP°C±P_μPSPs Cf C, P°P±P»PëC†C- 2.

PÿP°P±P»PëC†C_Π 2

PÿPëCfC, P _μ PjPë PsCT ₃ PiP°PSC-PI P·P° PeP»P°CfPëC,, C-PeP°C†C-C”CT ₃ MedDRA	P _μ PsP±C-C±PSC- CT ₃ P _μ P°PeC†C-C—	P§P°CfC, PsC, P°
P— P±PsPeCf CfPëCfC, P _μ PjPë PeCT ₃ PsPIC- C, P° P»C-PjC,, P°C, PëC±PSPsC— CfPëCfC, P _μ PjPë	P _μ PsP·PëPSPsC,, C-P»C-CT ₃	PSP _μ C±P°CfC, Ps*
	P°PiCT ₃ P°PSCfP»PsC†PëC, PsP· P°P±Ps PiP°PSC†PëC, PsPiP _μ PSC-CT ₃	PrCfP¶P _μ CT ₃ C-PrPePs
	P·PSPëP¶P _μ PSPSC _Π CT ₃ C-PIPSC _Π PiP _μ PjPsPiP»PsP±C-PSCf C, P° PiP _μ PjP°C, PsPeCT ₃ PëC, Cf	PrCfP¶P _μ CT ₃ C-PrPePs
	P»P _μ PNεPePsPiP _μ PSC-CT ₃ /PSP _μ PNεC, CT ₃ PsPiP _μ PSC-CT ₃	PrCfP¶P _μ CT ₃ C-PrPePs
P— P±PsPeCf CfPëCfC, P _μ PjPë P _μ PSPrPsPeCT ₃ PëPSPSPsC— CfPëCfC, P _μ PjPë	PiP _μ PjPsP»C-C, PëC±PSP° P°PSP _μ PjC-CT ₃ Cf PiP°C†C-C”PSC, C-PI P· CfCT ₃ PsPrP¶P _μ PSPsCT ₃ PSP _μ PrPsCfC, P°C, PSC-CfC, CT ₃ PiP»CT ₃ PePsP·Ps-6-C,, PsCfC,, P°C, PrP _μ PiC-PrCT ₃ PsPiP _μ PSP°P·Pë C, CT ₃ PsPjP±PsC†PëC, PsPiP _μ PSC-CT ₃	PrCfP¶P _μ CT ₃ C-PrPePs
	CfPëPSPPrCT ₃ PsPj PSP _μ P°PrP _μ PePiP°C, PSPsC— CfP _μ PeCT ₃ P _μ C†C-C— P°PSC, PëPrC-CfCT ₃ P _μ C, PëC±PSPsPiPs PiPsCT ₃ PjPsPSCf (PÿPáPÿP ₃ P”P”)	CT ₃ C-PrPePs
P— P±PsPeCf PjP _μ C, P°P±PsP»C-P·PjCf C, P° PsP±PjC-PSCf CT ₃ P _μ C±PsPIPëPS	PiC-PiPsPiP»C-PeP _μ PjC-CT ₃	PSP _μ C±P°CfC, Ps*
	PiC-PiP _μ CT ₃ PeP°P»C-C”PjC-CT ₃ , CT ₃ PeP° C” PsP±PsCT ₃ PsC, PSPsCT ₃ PiC-CfP»CT ₃ PIC-PrPjC-PSPë PiCT ₃ P _μ PiP°CT ₃ P°C, Cf	PSP _μ C±P°CfC, Ps*
	PiC-PiPsPSP°C, CT ₃ C-C”PjC-CT ₃	PSP _μ C±P°CfC, Ps*
P— P±PsPeCf PiCfPëC...C-PePë	PrP _μ PiCT ₃ P _μ CfC-CT ₃	PSP _μ C±P°CfC, Ps*
	PiPsCT ₃ CfCεP _μ PSPSC _Π PSP°CfC, CT ₃ PsCT ₃	PSP _μ C±P°CfC, Ps
	PiPsCT ₃ CfCεP _μ PSPSC _Π CfPSCf	PSP _μ C±P°CfC, Ps
	P·P°PiP°PjPsCT ₃ PsC±P _μ PSPSC _Π	C±P°CfC, Ps
	PiPsP»PsPIPSPëPNε P±C-P»CH ₃	C±P°CfC, Ps
	PiP°CT ₃ P _μ CfC, P _μ P·C-CT ₃	C±P°CfC, Ps
	PIP _μ CT ₃ C, PëPiPs	C±P°CfC, Ps
P— P±PsPeCf PSP _μ CT ₃ PIP ₃ PIP ₃ C— CfPëCfC, P _μ PjPë	CfPsPSP»PëPIC-CfC, CH ₃	PSP _μ C±P°CfC, Ps*
	PSP _μ PiCT ₃ PëC, PsPjPSC-CfC, CH ₃	PSP _μ C±P°CfC, Ps*
	CfPiP»CfC, P°PSC-CfC, CH ₃ CfPIC-PrPsPjPsCfC, C-	PrCfP¶P _μ CT ₃ C-PrPePs
	PiPsCT ₃ CfCεP _μ PSPSC _Π P·PsCT ₃ Cf	C±P°CfC, Ps
	PrP·PIC-PS Cf PICfC...P°C...	C±P°CfC, Ps

PŸPëCfC, PµPjPë PsCĤPiP°PSC-PI P·P° PeP»P°CfPëC,,C-PeP°C†C-C"CF MedDRA	PµPsP±C-C#PSC- CĤPµP°PeC†C-C—	PŸP°CfC, PsC, P°
P— P±PsPeCf CfPµCĤC†CĬ	PiP°P»CHPiC-C, P°C†C-CĬ	PSPµC†P°CfC, Ps*
	C, P°C...C-PeP°CĤPrC-CĬ	PSPµC†P°CfC, Ps*
	CfC, PµPSPsPeP°CĤPrC-CĬ	PrCfP¶Pµ CĤC-PrPePs
	P°CĤPëC, PjC-CĬ	PrCfP¶Pµ CĤC-PrPePs
	C-PSC,, P°CĤPeC, PjC-PsPeP°CĤPrP° PjPsP¶Pµ PiPëPSPëPeP°C, Pë PiPSP°CfP»C-PrPsPe PSP°PrPjC-CĤPSPsPiPs P·PSPëP¶PµPSPSCĬ P°CĤC, PµCĤC-P°P»CHPSPsPiPs C, PëCfPeCf Cf PiP°C†C-C" PSC, C-PI PiCĤCfPiPë PiPëCfPsPePsPiPs CĤPëP·PëPeCf	PrCfP¶Pµ CĤC-PrPePs
P— P±PsPeCf CfCfPrPëPSPSPsC— CfPëCfC, PµPjPë	P°CĤC, PµCĤC-P°P»CHPSP° PiC-PiPsC, PµPSP·C-CĬ (C, P° PiPsPiBĤ™ CĬP·P°PSC- P·PSPµCĤ CfPëPjPiC, PsPjPë)	C†P°CfC, Ps
	PiP°CfPeCfP»C-C,	PSPµC†P°CfC, Ps*
	PiCĤPëPiP»PëPiPë P¶P°CĤCf	CĤC-PrPePs*
	C-PSCfCfP»CHC, PjPsP¶Pµ PiPëPSPëPeP°C, Pë PiPSP°CfP»C-PrPsPe PSP°PrPjC-CĤPSPsPiPs P·PSPëP¶PµPSPSCĬ P°CĤC, PµCĤC-P°P»CHPSPsPiPs C, PëCfPeCf Cf PiP°C†C-C" PSC, C-PI PiCĤCfPiPë PiPëCfPsPePsPiPs CĤPëP·PëPeCf	PrCfP¶Pµ CĤC-PrPePs
	C,, PµPSPsPjPµPS P PµPNëPSPs	C†P°CfC, PsC, P° PSPµPiC-PrPsPjP°
P— P±PsPeCf PrPëC...P°P»CHPSPsC— CfPëCfC, PµPjPë, PsCĤPiP°PSC-PI PiCĤCfPrPSPsC— PeP»C-C, PePë C, P° CfPµCĤPµPrPsCfC, C-PSPSCĬ	PeP°C€PµP»CH	C†P°CfC, Ps
	P·P°PrPëC€PeP°	C†P°CfC, Ps
	P±CĤPsPSC...PsCfPiP°P·Pj	PSPµC†P°CfC, Ps
	PµPsP·PëPSPsC,, C-P»CHPSP° PiPSPµPiPjPsPSC-CĬ	PrCfP¶Pµ CĤC-PrPePs
	CĤPëPSC-C,	PrCfP¶Pµ CĤC-PrPePs
P— P±PsPeCf C, CĤP°PiPSPsC— CfPëCfC, PµPjPë	P±C-P»CH Cf P¶PëPiPsC, C-	C†P°CfC, Ps
	P·P°PiPsCĤ	C†P°CfC, Ps
	PrC-P°CĤPµCĬ	C†P°CfC, Ps
	CfPiPsC, PiPsCĤPµPSPSCĬ CfPjP°PeCf (PrPëCfPiPµPiP·C-CĬ)	C†P°CfC, Ps
	PrPëCfPiPµPiCfC-CĬ	C†P°CfC, Ps
	PSCfPrPsC, P°	C†P°CfC, Ps
	P±P»CĤPiP°PSPSCĬ	C†P°CfC, Ps
	CfCfC...C-CfC, CH Cf CĤPsC, C-	PSPµC†P°CfC, Ps
PiP°PSPeCĤPµP°C, PëC,	PrCfP¶Pµ CĤC-PrPePs	
P— P±PsPeCf PiPµPiP°C, PsP±C-P»C-P°CĤPSPsC— CfPëCfC, PµPjPë	C†PëC, PsP»C-C, PëC†PSPëPNë P°P±Ps C...PsP»PµCfC, P°C, PëC†PSPëPNë PiPµPiP°C, PëC,	PrCfP¶Pµ CĤC-PrPePs
	CfPiPµCĤP±C-P¶	C†P°CfC, Ps
P— P±PsPeCf C€PeC-CĤPë C, P° C—C— PiPsC...C-PrPSPëC...	PiPëCfPëPiP°PSPSCĬ	C†P°CfC, Ps
	PeCĤPsPiPëPiBĤ™ CĬPSPeP°	PSPµC†P°CfC, Ps
	P°PSPiC-PsPSPµPiCĤPsC, PëC†PSPëPNë PSP°P±CĤCĬPe PsP±P»PëC†C†CĬ, PeC-PSC†C-PIPsPe, PiCfP±, CfP»PëP·PsPiPëC... PsP±PsP»PSPsPe, CĬP·PëPeP°, PiPsP»PsCfPsPiPsC— C%oC-P»PëPSPë C, P°/P°P±Ps PiPsCĤC, P°PSC-	PSPµC†P°CfC, Ps
	CĤPµP°PeC†C-C— C,, PsC, PsC†CfC, P»PëPiPsCfC, C-	PSPµC†P°CfC, Ps*
	PiPµPjC,, C-PiPsC—Pr	PSPµC†P°CfC, Ps*
	PiC-PiPµCĤPiC-PrCĤPsP·	PSPµC†P°CfC, Ps
	PiPsCfPëP»PµPSPSCĬ CfPëPjPiC, PsPjC-PI PiCfPsCĤC-P°P·Cf PjCfP»CHC, PëC,, PsCĤPjPSP° PµCĤPëC, PµPjP°	CĤC-PrPePs PrCfP¶Pµ CĤC-PrPePs
	CfCfPrPsPjPë PjBĤ™ CĬP·C-PI	C†P°CfC, Ps
	P°CĤC, CĤP°P»PiC-CĬ	PSPµC†P°CfC, Ps*
	PjC-P°P»PiC-CĬ	PSPµC†P°CfC, Ps*
	PSPëCĤPePsPiP° PSPµPrPsCfC, P°C, PSC-CfC, CH	PSPµC†P°CfC, Ps
P— P±PsPeCf PSPëCĤPsPe C, P° CfPµC†PsPiPëPrC-P»CHPSPsC— CfPëCfC, PµPjPë	PiPsCfC, CĤP° PSPëCĤPePsPiP°	CĤC-PrPePs
	PSPµPrPsCfC, P°C, PSC-CfC, CH	CĤC-PrPePs
	P°PSCfCĤC-CĬ/PsP»C-PiCfCĤC-CĬ	CĤC-PrPePs*
P— P±PsPeCf CĤPµPiCĤPsPrCfPeC, PëPiPSPsC— CfPëCfC, PµPjPë C, P° PjPsP»PsC†PSPëC... P·P°P»PsP·	PµCĤPµPeC, PëP»CHPSP° PrPëCfC,, CfPSPeC†C-CĬ	PSPµC†P°CfC, Ps

PŸPëCÍC, PµPjPë PsCĤPiP°PSC-PI P·P° PeP»P°CÍPëC,,C-PeP°C†C-C"Ĥ MedDRA	PµPsP±C-C†PSC- ĤPµP°PeC†C-C—	PŞP°CÍC, PsC, P°
P—P°PiP°P»ĤPSC- ĤPSP·P»P°PrPë	P°CÍC, PµPSC-CĬ	C†P°CÍC, Ps
	P±C-P»ĤĤ CÍ PiĤĤCÍPrPSC-PNë PeP»C-C, C†C-	PSPµC†P°CÍC, Ps*
	PSPµP·PrCÍP¶P°PSPSCĬ	PSPµC†P°CÍC, Ps*
	PiPµĤPëC,, PµĤPëC†PSC- PSP°P±ĤĤCĬPePë	PSPµC†P°CÍC, Ps*
P"PsCÍP»C-PrP¶PµPSPSCĬ	PiC-PiPµĤĤC, PµĤPjC-CĬ	PSPµC†P°CÍC, Ps*
	PiC-PrPIPëC%PµPSPSCĬ ĤĤC-PIPSCĬ CÍPµC†PsPIPëPSPë PI PeĤĤPsPIC-	PSPµC†P°CÍC, Ps*
	PiC-PrPIPëC%PµPSPSCĬ ĤĤC-PIPSCĬ PeĤĤPµP°C, PëPSC-PSCÍ PI PeĤĤPsPIC-	PSPµC†P°CÍC, Ps*
	PiC-PrPIPëC%PµPSPSCĬ ĤĤC-PIPSCĬ P±C-P»C-ĤĤCÍP±C-PSCÍ PI PeĤĤPsPIC-	ĤĤC-PrPePs
	PiC-PrPIPëC%PµPSPSCĬ ĤĤC-PIPSCĬ PiPµC†C-PSPePsPIPëC... C,, PµĤĤPjPµPSC, C-PI	ĤĤC-PrPePs
PJCëPePsPrP¶PµPSPSCĬ, PsC, ĤĤCÍC" PSPSCĬ C, P° CÍCÍPeP»P°PrPSPµPSPSCĬ PiĤĤPëPNëPsPjCÍ	PiP°PrC-PSPSCĬ	PSPµC†P°CÍC, Ps*

*PŞP°CÍC, PsC, P° PiPsP±C-C†PSPëC... ĤPµP°PeC†C-PNë, PIPëCĬPIP»PµPSPëC... P·P°
PrPsPiPsPjPsPiPsĤĤ CÍPiPsPSC, P°PSPSPëC... PiPsPIC-PrPsPjP»PµPSCĤ,
ĤĤPsP·ĤĤP°C...PsPIP°PSP° P·P° PrP°PSPëPjPë PeP»C-PSC-C†PSPëC... PrPsCÍP»C-PrP¶PµPSCĤ.

PµP»C-PSC-C†PSC- PrPsCÍP»C-PrP¶PµPSPSCĬ

PµC-Pr C†P°CÍ PiPµĤĤC-PsPrCÍ ĤP°PSPPrPsPjC-P·P°C†C-C— CÍ PrPsCÍP»C-PrP¶PµPSPSC-
EUROPA P±CÍP»Ps P·C-P±ĤĤP°PSPs C-PSC,, PsĤĤPjP°C†C-ĤĤ C, C-P»ĤĤPePë PiĤĤPs
CÍPµĤĤPNëPsP·PSC- PIPëPiP°PrPePë PiPsP±C-C†PSPëC... ĤPµP°PeC†C-PNë. PJ
PSPµPIPµP»PëPePsC— PeC-P»ĤĤPePsCÍC, C- PiP°C†C-C" PSC, C-PI P±CÍP»Ps PIPëCĬPIP»PµPSPs
CÍPµĤĤPNëPsP·PSC- PiPsP±C-C†PSC- ĤPµP°PeC†C-C—: 16 (0,3 %) C-P· 6122
PiP°C†C-C" PSC, C-PI CÍ PiĤĤCÍPiC- PiPµĤĤPëPSPPrPsPiĤĤPëP»CÍ C, P° 12 (0,2 %) C-P·
6107 PiP°C†C-C" PSC, C-PI CÍ PiĤĤCÍPiC- PiP°C†C-C" PSC, C-PI, CĬPeC- PsC, ĤĤPëPjCÍPIP°P»Pë
PiP»P°C†PµP±Ps. PŸPµĤĤPµPr PiP°C†C-C" PSC, C-PI, CĬPeC- PsC, ĤĤPëPjCÍPIP°P»Pë
PiPµĤĤPëPSPPrPsPiĤĤPëP», P°ĤĤC, PµĤĤC-P°P»ĤĤPSP° PiC-PiPsC, PµPSP·C-CĬ
CÍPiPsCÍC, PµĤĤC-PiP°P»P°CÍCĬ CÍ 6 PiP°C†C-C" PSC, C-PI,
P°PSPiC-PsPSPµPICĤĤPsC, PëC†PSPëPNë PSP°P±ĤĤCĬPeC bĤ" CÍ 3 PiP°C†C-C" PSC, C-PI C, P°
ĤĤP°PiC, PsPIP° P·CÍPiPëPSPeP° CÍPµĤĤC†CĬ bĤ" CÍ 1 PiP°C†C-C" PSC, P°. PµP°C†C-C" PSC, Pë,
CĬPeC- PiĤĤPëPiPëPSPëP»Pë CÍC†P°CÍC, ĤĤ CÍ PrPsCÍP»C-PrP¶PµPSPSC-, 6,0 % (n = 366)
CÍPeP°ĤĤP¶PëP»PëCÍĤĤ PSP° PeP°CëPµP»ĤĤ, P°ĤĤC, PµĤĤC-P°P»ĤĤPSCÍ
PiC-PiPsC, PµPSP·C-ĤĤ P°P±Ps P±CÍPrĤĤ-CĬPeCÍ C-PSCëCÍ
PSPµPiPµĤĤPµPSPsCÍPëPjC-CÍC, ĤĤ PiPµĤĤPëPSPPrPsPiĤĤPëP»CÍ PiPsĤĤC-PIPSCĬPSPs P· 2,1
% (n = 129) PiP°C†C-C" PSC, C-PI, CĬPeC- PiĤĤPëPNëPjP°P»Pë PiP»P°C†PµP±Ps.

PµPsPIC-PrPsPjP»PµPSPSCĬ PiĤĤPs PiC-PrPsP·ĤĤĤPIP°PSC- PiPsP±C-C†PSC-
ĤPµP°PeC†C-C—

PµPsPIC-PrPsPjP»PµPSPSCĬ PiĤĤPs PiPsP±C-C†PSC- ĤPµP°PeC†C-C— PiC-CÍP»CĬ
ĤPµC" CÍC, ĤĤP°C†C-C— P»C-PeP°ĤĤCÍĤĤPePsPiPs P·P°CÍPsP±CÍ PjP°C" PIP°P¶P»PëPIPµ
P·PSP°C†PµPSPSCĬ. PiPµ PrP°C" P·PjPsPiCÍ PiĤĤPsPiPsPrPëC, Pë PjPsPSC-C, PsĤĤPëPSPi

СГРiC-PIPIC-PrPSPsC€PµPSPSCЦ PePsC҃PёCГC,CH/C҃PёP·PёPe PёC҃Pё
P·P°CГC,PsCГCрPIP°PSPSC- CГCHPsPiPs P»C-PeP°C҃CГCHPePsPiPs P·P°CГPsP±Cр.
P҃PµPrPёC҃PSPёPj C,P° C„P°C҃PjP°CГPµPIC,PёC҃PSPёPj PёC҃P°CГC-PIPSPёPeP°Pj, P°
C,P°PePsP¶ PёP°CГC-C”PSC,P°Pj P°P±Ps C—C...PSC-Pj P·P°PePsPSPSPёPj
PёC҃PµPrCГC,P°PIPSPёPeP°Pj CГP»C-Pr PёPsPIC-PrPsPjP»CЦC,Pё PёC҃Ps CрCГC-
PIPёPёP°PrPePё PёC-PrPsP·C҃C҃PIP°PSPёC... PёPsP±C-C҃PSPёC... C҃PµP°PeCГC-PNё C,P°
PIC-PrCГCрC,PSPsCГC,C- PµC„PµPeC,PёPIPSPsCГC,C- P»C-PeP°C҃CГCHPePsPiPs P·P°CГPsP±Cр
C҃PµC҃PµP· P°PIC,PsPjP°C,PёP·PsPIP°PSCр C-PSC„PsC҃PjP°CГC-PNёPSCр CГPёCГC,PµPjCр P·
C„P°C҃PjP°PePsPSP°PiP»CЦPrCр P·P° PёPsCГPёP»P°PSPSCЦPj: <https://aisf.dec.gov.ua>.

P҃PµC҃PjC-PS PёC҃PёPrP°C,PSPsCГC,C-

2 C҃PsPePё.

PjPjPsPIPё P·P±PµC҃C-PiP°PSPSCЦ

P’ PsC҃PёPiC-PSP°P»CHPSC-PNё CрPёP°PePsPICГC- PёC҃Pё C,PµPjPiPµC҃P°C,CрC҃C- PSPµ
PIPёC%Pµ 25 B°P҃.

P—P±PµC҃C-PiP°C,Pё Cр PSPµPrPsCГC,CрPёPSPsPjCр PrP»CЦ PrC-C,PµPNё PjC-CГCГC-.

PjPёP°PePsPIPёP°. PµPs 10 C,P°P±P»PµC,PsPe Cр P±P»C-CГC,PµC҃C-, 3 P±P»C-CГC,PµC҃Pё PI
PёP°CГCГC-.

P҃P°C,PµPiPsC҃C-CЦ PIC-PrPёCрCГPёCр. P—P° C҃PµCГPµPёC,PsPj.

P’PёC҃PsP±PSPёPe. PµP҃P҃ B«P҃PёC—PIPjPµPrPёC҃PµPёP°C҃P°C,B».

***P҃C-CГCГPµP·PSP°C...PsPrP¶PµPSPSCЦ PIPёC҃PsP±PSPёPeP° C,P° P°PrC҃PµCГP°
PjC-CГCГCЦ PёC҃PsPIP°PrP¶PµPSPSCЦ PNёPsPiPs PrC-CЦP»CHPSPsCГC,C-***

PjPeC҃P°C—PSP°, 01032, Pj. P҃PёC—PI, PICрP». P҃P°PeCГP°PiP°PSCГCHPePsPiPs, 139.