

P₄P^oC₇P₃P^oPePsC, P₄CH₃P^oPiP₄PIC, P₆C₄PSP^o PiC₇Cr₄PiP^o. P†PSPiC-P±C-C, PsCH₃P₆P^oPSPiC-PsC, P₄PSP^oP₆PSPiP₄CH₃P₄C, PIPsCH₃CH₃PIP^oP»CH₃PSPsPiPsB C₄, P₄CH₃P₃P₄PSC, Cr₄B

(PḥPḥPḥ). P†PSPiC-P±C-C,PsCḥPḥ PḥPḥPḥ PjPsPSPsPePsPjPḥPSPμPSC,PSC-. P P°PjC-PiCḥPḥP». PḥPsPr PḥPḥPḥ Pḥ09Pḥ Pḥ05.

PḥP°CḥPjP°PePsP»PsPiC-C†PSC- PIP»P°CḥC,PḥPIPSCḥC,C-.

PḥP°CḥPjP°PePsPrPḥPSP°PjC-PeP°.

PḥPḥC...P°PSC-P·Pj PrC-C—.

P P°PjC-PiCḥPḥP»P°C,, P°PeC,PḥPIPSPḥPNḥ PjPḥC,P°P±PsP»C-C, PiCḥPsP»C-PeC-PI - CḥP°PjC-PiCḥPḥP»Cḥ, C" C-PSPiC-P±C-C,PsCḥPsPj C,,PḥCḥPjPḥPSC,Cḥ PrPḥPḥPḥPḥC,PḥPrPḥP»PeP°CḥP±PsPeCḥPḥPḥPḥC,PḥPrP°P·Pḥ P† (CḥPḥPSPsPSC-PjPḥ: PḥPḥPḥ; PeC-PSP°P·P° P†P†). Pj PiP»P°P·PjC- PeCḥPsPIC- C,P° C,PeP°PSPḥPSP°C... C†PḥPNḥ C,,PḥCḥPjPḥPSC, PeP°C,P°P»C-P·CḥC" PiPḥCḥPḥC,PIPsCḥPḥPSPSCḥ P°PSPiC-PsC,PḥPSP·PḥPSCḥ P† PSP° P°PSPiC-PsC,PḥPSP·PḥPS P†P† (P°PeC,PḥPIPSCḥ CḥCḥPrPḥPSPsP·PICḥPḥCḥPḥP»CHPSCḥ CḥPḥC†PsPIPḥPSCḥ) C,P° CḥPsP·C°PḥPiP»PḥPSPSCḥ P°PeC,PḥPIPSPsPiPs PIP°P·PsPrPḥP»P°C,P°C,PsCḥP° P±CḥP°PrPḥPeC-PSC-PSCḥ. P—PjPḥPSCḥPḥPSPSCḥ CḥC,PIPsCḥPḥPSPSCḥ P°PSPiC-PsC,PḥPSP·PḥPSCḥ II C- PiCḥPḥPiPSC-C†PḥPSPSCḥ CḥPsP·C°PḥPiP»PḥPSPSCḥ P±CḥP°PrPḥPeC-PSC-PSCḥ PiCḥPḥP·PIPsPrCḥC,CH PrPs CḥPsP·CḥPḥPḥPSPSCḥ CḥCḥPrPḥPS. PḥCḥPeC-P»CHPePḥ P°PSPiC-PsC,PḥPSP·PḥPS II C,P°PePsPḥ CḥC,PḥPjCḥP»CḥC" PIPḥPIC-P»CHPSPḥPSPSCḥ P°P»CHPrPsCḥC,PḥCḥPsPSCḥ, CḥP°PjC-PiCḥPḥP»P°C, CḥPiCḥPḥC†PḥPSCḥC" P·PjPḥPSCḥPḥPSPSCḥ CḥPḥPeCḥPḥC†C-C— P°P»CHPrPsCḥC,PḥCḥPsPSCḥ. P PḥP°PeC†C-Cḥ PSP° PjPsPSPsC,PḥCḥP°PiC-Cḥ C-PSPiC-P±C-C,PsCḥP°PjPḥ PḥPḥPḥ PI CḥPḥCḥPḥPrPSCḥPsPjCḥ P±CḥP»P° PjPḥPSCḥ PIPḥCḥP°PḥPḥPSPsCḥ Cḥ PiP°C†C-C"PSC,C-PI PSPḥPiCḥPsC—PrPSPsC— CḥP°CḥPḥ (P°C,,CḥPs- PeP°CḥPḥP±CḥCHPePsPiPs PiPsC...PsPrPḥPḥPSPSCḥ) P· P°CḥC,PḥCḥC-P°P»CHPSPsCḥ PiC-PiPḥCḥC,PḥPSP·C-C"CH (PiPsPiCḥP»CḥC†C-Cḥ, PrP»Cḥ CḥPePsC— C...P°CḥP°PeC,PḥCḥPSPḥPNḥ PSPḥP·CHPePḥPNḥ CḥC-PIPḥPSCḥ CḥPḥPSC-PSCḥ PiCḥPḥ P°CḥC,PḥCḥC-P°P»CHPSC-PNḥ PiC-PiPḥCḥC,PḥPSP·C-C—), PSC-Pḥ Cḥ PiP°C†C-C"PSC,C-PI, CḥPeC- C" PiCḥPḥPrCḥC,P°PIPSPḥPeP°PjPḥ C-PSCḥPḥC... CḥP°Cḥ.

PḥPSC,PḥPiC-PiPḥCḥC,PḥPSP·PḥPIPSC- PIP»P°CḥC,PḥPIPSCḥC,C-.

PḥCḥPḥPNḥPsPj CḥP°PjC-PiCḥPḥP»Cḥ PiCḥPḥP·PIPsPrPḥC,CH PrPs P·PSP°C†PSPsPiPs P·PSPḥPḥPḥPSPSCḥ PiPḥCḥPḥC,,PḥCḥPḥC†PSPsPiPs P°CḥC,PḥCḥC-P°P»CHPSPsPiPs PsPiPsCḥCḥ. P—P°P·PIPḥC†P°PNḥ P·PSP°C†PSPḥC... P·PjC-PS PSPḥCḥPePsPiPs PiP»P°P·PjPsC,PsPeCḥ P°P±Ps CḥPIPḥPrPePsCḥC,C- PeP»CḥP±PsC†PePsPiPsC— C,,C-P»CHC,CḥP°C†C-C— (PḥPḥPḥ) PSPḥ PIC-PrP±CḥPIP°C"C,CHCḥCḥ. P—P°CḥC,PsCḥCḥPIP°PSPSCḥ CḥP°PjC-PiCḥPḥP»Cḥ PiP°C†C-C"PSC,P°Pj P· P°CḥC,PḥCḥC-P°P»CHPSPsCḥ PiC-PiPḥCḥC,PḥPSP·C-C"CH PiCḥPḥP·PIPsPrPḥC,CH PrPs P·PSPḥPḥPḥPSPSCḥ P°CḥC,PḥCḥC-P°P»CHPSPsPiPs C,PḥCḥPeCḥ CḥPe Cḥ PiPsCḥPḥP·PsPSC,P°P»CHPSPsPjCḥ, C,P°Pe C- Cḥ PIPḥCḥC,PḥPeP°P»CHPSPsPjCḥ PiPsP»PsPḥPḥPSPSC- C...PIPsCḥPsPiPs, C°Ps PSPḥ CḥCḥPiCḥPsPiPsPrPḥCḥC"C,CHCḥCḥCḥ PePsPjPiPḥPSCḥP°C,PsCḥPSPḥPj PiC-PrPIPḥC°PḥPSPSCḥPj C†P°CḥC,PsC,Pḥ CḥPḥCḥC†PḥPIPḥC... CḥPePsCḥPsC†PḥPSCḥ.

Pj P±C-P»CHCḥPsCḥC,C- PiP°C†C-C"PSC,C-PI P°PSC,PḥPiC-PiPḥCḥC,PḥPSP·PḥPIPSPḥPNḥ PḥC,,PḥPeC, PSP°CḥC,P°C" C†PḥCḥPḥP· 1-2 PiPsPrPḥPSPḥ PiC-CḥP»Cḥ PiPḥCḥPsCḥP°P»CHPSPsPiPs PiCḥPḥPNḥPsPjCḥ CḥP°P·PsPiPsC— PrPsP·Pḥ PiCḥPḥPiP°CḥP°C,Cḥ. PḥP°PeCḥPḥPjP°P»CHPSPḥPNḥ PḥC,,PḥPeC, PiC-CḥP»Cḥ PiPḥCḥPsCḥP°P»CHPSPsPiPs

РiСҗРёР№PsPjCр СҗР°Р·PsPIPsC— РrPsP·Рё Р·Р°Р·PIPёC±Р°Р№ PSP°CґC,Р°C” C±РµСҗРµРµР· 3–6
PiPsPrPёPS. РҗPSC,РёPiC–PiРµСҗC,РµPSP·РёPIPSРёР№ РµC,,РµРёC, PiC–CґР»Cҗ
РiСҗРёРёР№PsPjCр СҗР°Р·PsPIPsC— РrPsP·Рё Р·Р°Р·PIPёC±Р°Р№ Р·Р±РµСҗC–PiР°C”C,СҗCґCҗ
РiСҗРёPsC,CҗPiPsPj 24 PiPsPrPёPS.

РµСҗРё Рё C,СҗРёРёPIР°Р»PsPjCр Р»C–РёCрPIР°PSPSC– C–Р· Р·Р°CґC,PsCґCрPIР°PSPSCҗPj
СҗР°Р·C–РiСҗРёРёР»Cр РjР°Р·РёCґРёРjР°Р»СҗPSPёР№ Р°PSC,РёPiC–PiРµСҗC,РµPSP·РёPIPSРёР№
РµC,,РµРёC, СҗPsP·PIРёPIР°C”C,СҗCґCҗ C±РµСҗРµРµР· 3–4 C,РёР¶PSC–. Р”PsPIРµРrРµPSPs,
C°°Ps РiСҗРё Рё РrPsPIPiPsC,СҗРёРёPIР°Р»C–Р№ C,РµСҗР°Р·РiC–C—
Р°PSC,РёPiC–PiРµСҗC,РµPSP·РёPIPSРёР№ РµC,,РµРёC, Р·Р±РµСҗC–PiР°C”C,СҗCґCҗ
РiСҗРёPsC,CҗPiPsPj 2 СҗPsРёC–PI.

Р Р°РiC,PsPIРµ РiСҗРёРёPiРёPSPµPSPSCҗ РiСҗРёРёР№PsPjCр СҗР°Р·C–РiСҗРёРёР»Cр PSPµ
CґРiСҗРёРёC±РёPSCҗC” CёPIРёРrРёPsPiPs C,Р° PSP°РrPjC–СҗPSPsPiPs РiC–РrPIРёC°°РµPSPSCҗ
Р°СҗC,РµСҗC–Р°Р»СҗPSPsPiPs C,РёCґРёCр (C,,РµPSPsPjРµPS СҗРёРёРёPsCёРµC,Cр).

РҗРµСҗC±РµPIР° PSPµРrPsCґC,Р°C,PSC–CґC,Сҗ.

Р”PsPIРµРrРµPSPs, C°°Ps Р·Р°CґC,PsCґCрPIР°PSPёР№ CҗРё РrPsPiPsPIPSРµPSPSCҗ РrPs
C,СҗР°Р·РrРёC±C–Р№PSPsC— C,РµСҗР°Р·РiC–C— РrC–CрСҗРµC,РёРёР°Р°РjРё C,Р°, CҗРёC°°Ps
PSPµPsP±C...C–РrPSPs, CґРµСҗC±РµPIРёРjРё РiР»C–РёPsP·РёРrР°РjРё СҗР°Р·C–РiСҗРёРёР»C” C”
РµC,,РµРёC,РёPIPSРёРj РrР»Cҗ РiР°C±C–C”PSC,C–PI C–Р· CґРµСҗC±РµPIPsCҗ
PSPµРrPsCґC,Р°C,PSC–CґC,Сҗ Р±Р±–IV C,,CрPSPёC±C–PsPSP°Р»СҗPSPёC... РёР»Р°Р°CґC–PI Р·Р°
NYHA. РµСҗРµРiР°СҗР°C, РiРёCҗPIР»CҗC” CґРiСҗРёРёCҗC,Р»РёPIРёР№ РiРiР»РёРёPI PSP°
CґРµСҗC±РµPICр РiРµPjPsPrPёPSP°РjC–РёCр (Р·PSPёР¶РµPSPSCҗ C,РёCґРёCр
PSP°РiPsPIPSРµPSPSCҗ Р»C–PIPsPiPs C– РiСҗР°Р·PIPsPiPs CёР»CрPSPsC±РёC–PI,
Р·Р°РiР°Р»СҗPSPsPiPs РiРµСҗРёC,,РµСҗРёC±PSPsPiPs CґCрРrРёPSPSPsPiPs PsPiPsCҗCр,
РiC–РrPIРёC°°РµPSPSCҗ CґРµСҗC±РµPIPsPiPs РiРёРёРёРrCр C– РiPsРёСҗР°C°°РµPSPSCҗ
CґРµСҗC±РµPIPsPiPs C–PSPРµCґCр). Р’C–PS C,Р°РёPsP¶ Р·РjРµPSCёCр”
PSPµР№СҗPsРµPSPРrPsРёСҗРёРёPSPCр Р°РёC,РёPIР°C±C–Сҗ.

РљР»C–PSC–C±PSP° РµC,,РµРёC,РёPIPS–CґC,Сҗ C,Р° Р±РµР·РiРµРёР°.

РµСҗPsC,,C–Р»Р°РёC,РёРёР° CґРµСҗC±РµPIPs–CґCрРrРёPSPSPёC...
Р·Р°C...PIPsСҗСҗPIР°PSCҗ/PSPµC,,СҗPsPiСҗPsC,РµРёC±C–Cҗ.

Р’CрР»Ps РiСҗPsPIРµРrРµPSPs РiСҗРµPIРµPSC,РёPIPSРµ РiР»Р°Р°C±РµР±Ps–
РёPsPSC,СҗPsР»СҗPsPIР°PSPµ РrPsCґР»C–РrP¶РµPSPSCҗ (РrPsCґР»C–РrP¶РµPSPSCҗ HOPE)
Р·Р° CрC±Р°CґC,Сҗ РiPsPSP°Рr 9 200 РiР°C±C–C”PSC,C–PI, CҗРёC– РrPsPrР°C,РёPsPIPs РrPs
CґC,Р°PSPР°СҗC,PSPsC— C,РµСҗР°Р·РiC–C— PsC,СҗРёРёРjCрPIР°Р»Рё СҗР°Р·C–РiСҗРёРёР»C”. Рj
C±СҗPsPjCр РrPsCґР»C–РrP¶РµPSPSC– Р±СҗР°Р»Р»Рё РёC±Р°CґC,Сҗ РiР°C±C–C”PSC,Рё Р·
PIРёCґPsРёРj СҗРёРёР·РёРёPsPj РiРёPSPёРёPSPµPSPSCҗ CґРµСҗC±РµPIPs–
CґCрРrРёPSPSPsPiPs Р·Р°C...PIPsСҗСҗPIР°PSPSCҗ РiC–CґР»Cҗ РiРµСҗРµPSPµCґРµPSPsPiPs
Р°C,РµСҗPsC,СҗPsPjР±PsC,РёC±PSPsPiPs CґРµСҗC±РµPIPs–CґCрРrРёPSPSPsPiPs
Р·Р°C...PIPsСҗСҗPIР°PSPSCҗ (PSP°CҗPIPS–CґC,Сҗ PI Р°PSP°РjPSPµР·C–
C–CёРµPjC–C±PSPsC— C...PIPsСҗPsP±Рё CґРµСҗC±Cҗ, C–PSCґCрСҗCҗСҗC,Ср Р°Р±Ps
Р·Р°C...PIPsСҗСҗPIР°PSPSCҗ РiРµСҗРёC,,РµСҗРёC±PSPёC... CґCрРrРёPS) Р°Р±Ps
РiР°C±C–C”PSC,Рё Р· CґCрРёСҗPsPIРёРj РrC–Р°Р±РµC,PsPj, CҗРёC– РjР°Р»Р»Рё
РiСҗРёРёPSP°Р№PjPSC– C°°Рµ PsPrРёPS РrPsPrР°C,РёPsPIРёР№ C,,Р°РёC,PsСҗ СҗРёРёР·РёРёCр
(РrPsРёCрPjРµPSC,Р°Р»СҗСҗPSPs РiC–РrC,PIРµСҗРrP¶РµPSP°
РjC–РёСҗPsР°Р»СҗСҗC–PSCґCҗC–Cҗ, Р°СҗC,РµСҗC–Р°Р»СҗPSP°
PiC–PiРµСҗC,РµPSP·C–Cҗ, РiC–РrPIРёC°°РµPSPёР№ СҗC–PIРµPSCҗ Р·Р°РiР°Р»СҗСҗPSPsPiPs

C...PsP»PμCΓC,PμCḡPēPSCr, C...PsP»PμCΓC,PμCḡPēPSCr P»C-PiPsPiCḡPsC,PμC—PSC-PI
PSPēP·CHPePsC— C%oC-P»CHPSPsCΓC,C- P°P±Ps PiP°P»C-PSPSCl).

PiPμ PrPsCΓP»C-PrP¶PμPSPSCl PiCḡPsPrPμPjPsPSCΓC,CḡCΓPIP°P»Ps, C%oPs
CḡP°PjC-PiCḡPēP» CΓC,P°C,PēCΓC,PēC±PSPs PrPsCΓC,PsPIC-CḡPSPs P·PjPμPSCēCΓC”
C±P°CΓC,PsC,Cr PIPēPSPēPePSPμPSPSCl C-PSC,,P°CḡPeC,Cr PjC-PsPeP°CḡPrP°,
CΓPμCḡC†PμPIPs-CΓCΓPrPēPSPSPsC— CΓPjPμCḡC,C- C,P° C-PSCΓCΓP»CHC,Cr CμPe
PsPeCḡPμPjPs, C,P°Pe C- Cr PePsPjP±C-PSP°C†C-C— (PiPμCḡPIPēPSPSP°
PePsPjP±C-PSPsPIP°PSP° PeC-PSC†PμPIP° C,PsC±PeP°).

B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B
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B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B
PŷP°P±P»PēC†Cμ 1

B P”PsCΓP»C-PrP¶PμPSPSCl HOPE: PsCΓPSPsPIpsc- CḡPμP·CrP»CHC,P°C,Pē

PμPsPeP°P·PSPēPe	P P°PjC-PiCḡPēP» %	PμP»P°C†PμP±Ps %	P’C-PrPSPsCΓPSPēPNg CḡPēP·PēPe (95 % PrPsPIC-CḡC±PēPNg C-PSC,PμCḡPIP°P»)	P—PSP°C±PμPSPSCl P
PjCΓC- PiP°C†C-C”PSC,Pē	n=4,645	N=4,652		
PμPμCḡPIPēPSPSP° PePsPjP±C-PSPsPIP°PSP° PeC-PSC†PμPIP° C,PsC±PeP°	14	17,8	0,78 (0,7–0,86)	<0,001
P†PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP°	9,9	12,3	0,80 (0,7–0,9)	<0,001
PŷPμCḡC†PμPIPs-CΓCzPrPēPSPSP° CΓPjPμCḡC,CH	6,1	8,1	0,74 (0,64–0,87)	<0,001
P†PSCΓCzP»CHC,	3,4	4,9	0,68 (0,56–0,84)	<0,001
P’C,PsCḡPēPSPSC- PeC-PSC†PμPIC- C,PsC±PePē				
PŷPjPμCḡC,CH C-P· P±CzPrCH- CμPePsC— PiCḡPēC±PēPSPē	10,4	12,2	0,84 (0,75–0,95)	0,005
PμPsC,CḡPμP±P° Cz CḡPμPIP°CΓPeCzP»CμCḡPēP·P°C†C-C—	16,0	18,3	0,85 (0,77–0,94)	0,002
P”PsCΓPiC-C,P°P»C-P·P°C†C-Cμ P· PiCḡPēPIPsPrCz PSPμCΓC,P°P±C-P»CHPSPsC— CΓC,PμPSPsPeP°CḡPrC-C—	12,1	12,3	0,98 (0,87–1,1)	PSPμ PrPsCΓC,PsPIC-CḡPSPs
P”PsCΓPiC-C,P°P»C-P·P°C†C-Cμ P· PiCḡPēPIPsPrCz CΓPμCḡC†PμPIPsC— PSPμPrPsCΓC,P°C,PSPsCΓC,C-	3,2	3,5	0,88 (0,7–1,1)	0,25
PjCΓPeP»P°PrPSPμPSPSCl, PiPsPiθḡ™ CμP·P°PSC- P· C†CzPeCḡPsPIPēPj PrC-P°P±PμC,PsPj	6,4	7,6	0,84 (0,72–0,98)	0,03

Pj PiCḡPsC†PμCΓC- PrPsCΓP»C-PrP¶PμPSPSCl MICRO-HOPE, PiCḡPsPiPμPrPμPSPSCl
CμPePsPiPs P±CΓP»Ps PiPsPiPμCḡPμPrPSCḡPs P·P°PiP»P°PSPsPIP°PSPs PI CḡP°PjPeP°C...
PrPsCΓP»C-PrP¶PμPSPSCl HOPE, PIPēPIC±P°PICΓCμ PμC,,PμPeC,, C%oPs PIPēPSPēPeP°PI
PiCḡPē PrPsPrP°PIP°PSPSC- CḡP°PjC-PiCḡPēP»Cr Cr PrPsP·C-B 10 PjPi PrPs
C-CΓPSCrCHC±PsC— CΓC...PμPjPē P»C-PeCΓPIP°PSPSCl PiPsCḡC-PIPCμPSPs P·
PiP»P°C†PμP±Ps Cr 3577 PiP°C†C-C”PSC,C-PI PIC-PePsPj PIC-Pr 55 CḡPsPeC-PI
(PIPμCḡC...PSCḡPsPiPs PIC-PePsPIPsPiPs PsP±PjPμP¶PμPSPSCl PSPμ P±CΓP»Ps) P·
PSPsCḡPjP°P»CHPSPēPj P°P±Ps PiC-PrPIPēC%oPμPSPēPj P°CḡC,PμCḡC-P°P»CHPSPēPj
C,PēCΓPePsPj, P±C-P»CHCēC-CΓC,CH C-P· CμPePēC... C...PIPsCḡC-P»P° PSP°

P_uP_sPrPIC-PN_oPSP° P±P»PsPeP°PrP° C_hP_uPSC-PS-P°PSPiC-PsC,P_uPSP·PëPS-
P°P»CHbPrPsClíC,P_uC_hPsPSPsPIPsC— ClíPëClíC,P_uPjPë (P P_hP_hPŸ). PJ PrPIPsC...
PjP°ClíC€C,P°P±PSPëC... C_hP°PSPPrPsPjC-P·PsPIP°PSPëC... PePsPSC,C_hPsP»CHbPsPIP°PSPëC...
PrPsClíP»C-PrP¶P_uPSPSClIC... [ONTARGET (PrPsClíP»C-PrP¶P_uPSPSClIB PIPiP»PëPICí
C,P_uP»PjC-ClíP°C_hC,P°PSCr ClíPe PjPsPSPsC,P_uC_hP°PiC-C— C,P° Cr PePsPjP±C-PSP°C†C-C— P·
C_hP°PjC-PiC_hPëP»PsPj PSP° P·P°PiP°P»CHbPSCr PeC-PSC†P_uPICr C,PsC±PeCr)B C- VA

NEPHRON-D (PrPsCfP»C-PrP¶PµPSPSC¶ PrC-P°P±PµC,PëC±PSPsC— PSPµC,,CḡPsPïP°C,C-C—
Cf PIPµC,PµCḡP°PSC-PI) PIPëPIC±P°P»PsCfC¶ P·P°CfC,PsCfCfPIP°PSPSC¶
PePsPjP±C-PSP°C†C-C— C-PSPiC-P±C-C,PsCḡP° PḡPµPḡ P· P°PSC,P°PiPsPSC-CfC,PsPj
CḡPµC†PµPïC,PsCḡC-PI P°PSPiC-PsC,PµPSP·PëPSCf II.

P°PsCfP»C-PrP¶PµPSPSC¶ ONTARGET PïCḡPsPIPPrPëP»PsCfC¶ P·P° CfC±P°CfC,Cḡ
PïP°C†C-C°PSC,C-PI C-P· CfPµCḡC†PµPIPs-CfCfPrPëPSPSPëPjPë C±Pë
C†PµCḡPµP±CḡPsPIP°CfPeCfP»C¶CḡCḡPSPëPjPë P·P°C...PIPsCḡCḡPIP°PSPSC¶PjPë PI
P°PSP°PjPSPµP·C- P°P±Ps C-P· C†CfPeCḡPsPIPëPj PrC-P°P±PµC,PsPj 2-PiPs C,PëPïCf C-P·
CfCfPïCfC,PSC-PjPë PsP·PSP°PeP°PjPë CfCḡP°P¶PµPSPSC¶ PsCḡPiP°PSC-PI-PjC-C€PµPSPµPNḡ.
Pj PrPsCfP»C-PrP¶PµPSPSC- VA NEPHRON-D PIP·C¶P»Pë CfC±P°CfC,Cḡ PïP°C†C-C°PSC,Pë P·
C†CfPeCḡPsPIPëPj PrC-P°P±PµC,PsPj 2-PiPs C,PëPïCf C,P° PrC-P°P±PµC,PëC±PSPsCḡ
PSPµC,,CḡPsPïP°C,C-C°Cḡ.

PjC- PrPsCfP»C-PrP¶PµPSPSC¶ PSPµ PïPsPeP°P·P°P»Pë P·PSP°C†CfC%PëC... PïPµCḡPµPIP°Pi
PePsPjP±C-PSPsPIP°PSPsC— C,PµCḡP°PïC-C— C%PsPrPs PSPëCḡPePsPIPëC... C-/P°P±Ps
CfPµCḡC†PµPIPs-CfCfPrPëPSPSPëC... PSP°CfP»C-PrPeC-PI C,P° CfPjPµCḡC,PSPsCfC,C-,
C,PsPrC- C¶Pe PïCḡPë C†CḡPsPjCf CfPïPsCfC,PµCḡC-PiP°PICfC¶ PïC-PrPIPëC%PµPSPëPNḡ
CḡPëP·PëPe PïC-PïPµCḡPeP°P»C-C°PjC-C—, PiPsCfC,CḡPsC— PSPëCḡPePsPIPsC—
PSPµPrPsCfC,P°C,PSPsCfC,C- C-/P°P±Ps P°CḡC,PµCḡC-P°P»CḡPSPsC—
PiC-PïPsC,PµPSP·C-C—B PïPsCḡC-PIPsC¶PSPs P· PjPsPSPsC,PµCḡP°PïC-C°Cḡ. P—
PsPiP»C¶PrCf PSP° PïPsPrC-P±PSC- C,,P°CḡPjP°PePsPrPëPSP°PjC-C±PSC-
C...P°CḡP°PeC,PµCḡPëCfC,PëPePë C†PëC... PïCḡPµPïP°CḡP°C,C-PI, C†C-
CḡPµP·CfP»CḡC,P°C,Pë C,P°PePsP¶ P·P°CfC,PsCfPsPIPSC- PrP»C¶ C-PSC€PëC...
C-PSPiC-P±C-C,PsCḡC-PI PḡPµPḡ C- P°PSC,P°PiPsPSC-CfC,C-PI CḡPµC†PµPïC,PsCḡC-PI
P°PSPiC-PsC,PµPSP·PëPSCf II.

PḡC,P¶Pµ, C-PSPiC-P±C-C,PsCḡPë PḡPµPḡ C- P°PSC,P°PiPsPSC-CfC,Pë CḡPµC†PµPïC,PsCḡC-PI
P°PSPiC-PsC,PµPSP·PëPSCf II PSPµ PjPsP¶PSP° PsPrPSPsC±P°CfPSPs
P·P°CfC,PsCfPsPICfPIP°C,Pë PïP°C†C-C°PSC,P°Pj C-P· PrC-P°P±PµC,PëC±PSPsCḡ
PSPµC,,CḡPsPïP°C,C-C°Cḡ.

Pj PrPsCfP»C-PrP¶PµPSPSC- ALTITUDE (PrPsCfP»C-PrP¶PµPSPSC¶ PIPïP»PëPICf
P°P»C-CfPeC-CḡPµPSCf PSP° CfC,P°PS PïP°C†C-C°PSC,C-PI C-P· C†CfPeCḡPsPIPëPj
PrC-P°P±PµC,PsPj 2-PiPs C,PëPïCf P· PIPëPePsCḡPëCfC,P°PSPSC¶Pj CfPµCḡC†PµPIPs-
CfCfPrPëPSPSPëC... C,P° PSPëCḡPePsPIPëC... PeC-PSC†PµPIPëC... C,PsC±PsPe)
PsC†C-PSCḡPIP°P»Pë PïPµCḡPµPIP°PiPë PrPsPrP°PIP°PSPSC¶ P°P»C-CfPeC-CḡPµPSCf PrPs
CfC,P°PSPrP°CḡC,PSPsC— C,PµCḡP°PïC-C— C-PSPiC-P±C-C,PsCḡPsPj PḡPµPḡ P°P±Ps
P°PSC,P°PiPsPSC-CfC,PsPj CḡPµC†PµPïC,PsCḡC-PI P°PSPiC-PsC,PµPSP·PëPSCf II PrP»C¶
PïP°C†C-C°PSC,C-PI C-P· C†CfPeCḡPsPIPëPj PrC-P°P±PµC,PsPj 2-PiPs C,PëPïCf C,P°
C...CḡPsPSC-C±PSPëPj P·P°C...PIPsCḡCḡPIP°PSPSC¶Pj PSPëCḡPsPe, CfPµCḡC†PµPIPs-
CfCfPrPëPSPSPëPj P·P°C...PIPsCḡCḡPIP°PSPSC¶Pj P°P±Ps PsP±PsPjP°
PïP°C,PsP»PsPiC-C¶PjPë. PjPµ PrPsCfP»C-PrP¶PµPSPSC¶ P±CfP»Ps P·P°PIPµCḡC€PµPSPs
PrPsCfC,CḡPsPePsPIPs C±PµCḡPµP· PïC-PrPIPëC%PµPSPSC¶ CḡPëP·PëPeCf
PSPµP±P°P¶P°PSPëC... PeP»C-PSC-C±PSPëC... PSP°CfP»C-PrPeC-PI. Pj PïCḡCfPïC-
PïCḡPëPNḡPsPjCf P°P»C-CfPeC-CḡPµPSCf PïPsCḡC-PIPsC¶PSPs B C-P· PïCḡCfPïPsCḡ
PïCḡPëPNḡPsPjCf PïP»P°C†PµP±Ps P±CfP»Ps PIC-PrPjC-C±PµPSPs P±C-P»CḡC€Cf
C±P°CfC,PsC,Cf P»PµC,P°P»CḡPSPëC... PIPëPïP°PrPeC-PI C±PµCḡPµP· CfPµCḡC†PµPIPs-
CfCfPrPëPSPSC- P·P°C...PIPsCḡCḡPIP°PSPSC¶ C,P° C-PSCfCfP»CḡC,, P° C,P°PePsP¶
PïC-PrPIPëC%PµPSPSC¶ C±P°CfC,PsC,Pë CfPµCḡPNḡPsP·PSPëC... PSPµP±P°P¶P°PSPëC...
C¶PIPëC%, C¶PeC- C¶PIP»C¶P»Pë CfPsP±PsCḡ PsCfPsP±P»PëPIPëPNḡ C-PSC,PµCḡPµCf
(PiC-PïPµCḡPeP°P»C-C°PjC-C—, P°CḡC,PµCḡC-P°P»CḡPSPsC— PiC-PïPsC,PµPSP·C-C— C-

PrPëCfC,,CfPSPeC†C-C— PSPëCfPsPe).

P'C,PsCfPëPSPSP° PïCfPsC,,C-P»P°PeC,PëPeP° PïC-CfP»Cf PïPµCfPµPSPµCfPµPSPsPiPs
PiPsCfC,CfPsPiPs C-PSC,,P°CfPeC,Cf PjC-PsPeP°CfPrP°.

PJ PrPsCfP»C-PrP¶PµPSPSC- AIRE P±CfP°P»Pë CrC†P°CfC,Ch PïPsPSP°Pr 2000
PïP°C†C-C"PSC,C-PI P· PjPëPSCrC%PëPjPë/PiPsCfC,C-PNëPSPëPjPë CfPëPjPiC,PsPjP°PjPë
CfPµCfC†PµPIPsC— PSPµPrPsCfC,P°C,PSPsCfC,C- PïC-CfP»Cf PïPµCfPµPSPµCfPµPSPsPiPs
C-PSC,,P°CfPeC,Cf PjC-PsPeP°CfPrP°. P>C-PeCfPIP°PSPSCf CfP°PjC-PïCfPëP»PsPj
CfPsP·PïPsC†PëPSP°P»Pë C†PµCfPµP· 3-10 PrPSC-PI PïC-CfP»Cf PIPëPSPëPePSPµPSPSCf
PiPsCfC,CfPsPiPs C-PSC,,P°CfPeC,Cf PjC-PsPeP°CfPrP°. PïPµ PrPsCfP»C-PrP¶PµPSPSCf
PïCfPsPrPµPjPsPSCfC,CfCfPIP°P»Ps, C%Ps PïC-CfP»Cf P·P°PIPµCfC€PµPSPSCf
PïPµCfC-PsPrCf PïPsPrP°P»ChC€PsPiPs CfPïPsCfC,PµCfPµP¶PµPSPSCf, CfPePëPNë Cr
CfPµCfPµPrPSCfPsPjCf CfC,P°PSPsPiPëPI 15 PjC-CfCfC†C-PI, PeC-P»ChPeC-CfC,Ch
P»PµC,P°P»ChPSPëC... PIPëPïP°PrPeC-PI Cr PïCfCfPïC- PïP°C†C-C"PSC,C-PI, CfPeC-
PsC,CfPëPjCfPIP°P»P° CfP°PjC-PïCfPëP», CfC,P°PSPsPiPëP»P° 16,9 %, P° Cr PïCfCfPïC-
PïP»P°C†PµP±Ps Bf" 22,6 %. PïPµ PsP·PSP°C†P°C" P°P±CfPsP»ChC,PSPµ P·PSPëP¶PµPSPSCf
B P»PµC,P°P»ChPSPëC... PIPëPïP°PrPeC-PI PSP° 5,7 % C,P° PIC-PrPSPsCfPSPµ
P·PSPëP¶PµPSPSCf CfPëP·PëPeCf PSP° 27 % (95 % P"P† [11-40 %]).

PµPµPrC-P°C,CfPëC†PSP° PïPsPïCfP»CfC†C-Cf.

PJ PïCfPsC†PµCfC- CfP°PSPrPsPjC-P·PsPIP°PSPsPiPs PïPsPrPIC-PNëPSPsPiPs CfP»C-PïPsPiPs
PïP»P°C†PµP±Ps-PePsPSC,CfPsP»ChPsPIP°PSPsPiPs PeP»C-PSC-C†PSPsPiPs
PrPsCfP»C-PrP¶PµPSPSCf P·P° CrC†P°CfC,Ch 244 PïPµPrC-P°C,CfPëC†PSPëC...
PïP°C†C-C"PSC,C-PI P· P°CfC,PµCfC-P°P»ChPSPsCh PïC-PïPµCfC,PµPSP·C-C"Ch (Cf 73 % P·
CfPePëC... P±CfP»P° PïPµCfPIPëPSPSP° P°CfC,PµCfC-P°P»ChPSP° PïC-PïPµCfC,PµPSP·C-Cf)
PIC-PePsPj 6-16 CfPsPeC-PI CrC†P°CfPSPëPePë PsC,CfPëPjCfPIP°P»Pë PSPëP·ChPeC-,
CfPµCfPµPrPSC- P°P±Ps PIPëCfPsPeC- PrPsP·Pë CfP°PjC-PïCfPëP»Cf P· PjPµC,PsCh
PrPsCfCfPIPSPµPSPSCf Cr PSPëC... PïP»P°P·PjPsPiPëC... PePsPSC†PµPSC,CfP°C†C-PNë
CfP°PjC-PïCfPëP»P°C,Cf, CfPeC- PIC-PrPïPsPIC-PrP°ChC,Ch PrC-P°PïP°P·PsPSCr PrPsP·
PrP»Cf PrPsCfPsCfP»PëC... 1,25 PjPi, 5 PjPi C,P° 20 PjPi P· CfPsP·CfP°C...CfPSPeCf P·P°
PjP°CfPsCh C,C-P»P°. PµC-CfP»Cf 4 C,PëP¶PSC-PI P±CfP»Ps PIPëCfPIP»PµPSPs, C%Ps
CfP°PjC-PïCfPëP» P±CfPI PSPµPµC,,PµPeC,PëPIPSPëPj C%PsPrPs PeC-PSC†PµPIPsC—
C,PsC†PePë Bf" P·PSPëP¶PµPSPSCf CfPëCfC,PsP»C-C†PSPsPiPs
P°CfC,PµCfC-P°P»ChPSPsPiPs C,PëCfPeCf, PsPrPSP°Pe PIC-PS P·PSPëP¶CfPIP°PI
PrC-P°CfC,PsP»C-C†PSPëPNë C,PëCfPe PïCfPë P·P°CfC,PsCfCfPIP°PSPSC-
PSP°PNëPIPëC%PsC— PrPsP·Pë PrPsCfP»C-PrP¶CfPIP°PSPsPiPs PrC-P°PïP°P·PsPSCr. P'CfP»Ps
PïPsPeP°P·P°PSPs, C%Ps CfPe CfPµCfPµPrPSC-, C,P°Pe C- PIPëCfPsPeC- PrPsP·Pë
CfP°PjC-PïCfPëP»Cf P·PSPëP¶CfChC,Ch CfPëCfC,PsP»C-C†PSPëPNë C-
PrC-P°CfC,PsP»C-C†PSPëPNë P°CfC,PµCfC-P°P»ChPSPëPNë C,PëCfPe PSP°
CfC,P°C,PëCfC,PëC†PSPs P·PSP°C†CfC%Cr PIPµP»PëC†PëPSCr Cr PrC-C,PµPNë C-P·
PïC-PrC,PIPµCfPrP¶PµPSPsCh P°CfC,PµCfC-P°P»ChPSPsCh PïC-PïPµCfC,PµPSP·C-C"Ch.

PÿP°PePsPiPs PµC,,PµPeC,Cf PSPµ CfPïPsCfC,PµCfC-PiP°P»PsCfCf Cr PïCfPsC†PµCfC- B 4-
C,PëP¶PSPµPIPsPiPs CfP°PSPrPsPjC-P·PsPIP°PSPsPiPs PïPsPrPIC-PNëPSPsPiPs CfP»C-PïPsPiPs
PrPsCfP»C-PrP¶PµPSPSCf P· PïC-PrPIPëC%PµPSPSCfPj PrPsP·Pë, PrPµ
PsC†C-PSCfPIP°PICfCf PµC,,PµPeC, PIC-PrPjC-PSPë P»C-PeP°CfCfChPePsPiPs P·P°CfPsP±Cf
C- PI CfPePsPjCf PIP·CfP»Pë CrC†P°CfC,Ch 218 PïPµPrC-P°C,CfPëC†PSPëC...
PïP°C†C-C"PSC,C-PI PIC-PePsPj 6-16 CfPsPeC-PI (Cf 75 % P· PSPëC... P±CfP»P°
PïPµCfPIPëPSPSP° P°CfC,PµCfC-P°P»ChPSP° PïC-PïPµCfC,PµPSP·C-Cf). PJ PïCfPsC†PµCfC-
C†ChPsPiPs PrPsCfP»C-PrP¶PµPSPSCf PïC-CfP»Cf PIC-PrPjC-PSPë PïCfPµPïP°CfP°C,Cf

$C\Gamma\tilde{P}iPsC\Gamma C, P_{\mu}C\tilde{H}C-PiP^{\circ}P \gg PsC\Gamma C\sqcup \tilde{P}iPsPjC-C\tilde{H}PSP_{\mu} C\tilde{H}P\tilde{e}PePsC\epsilon P_{\mu}C, PSP_{\mu}$
 $P\tilde{I}C-PrPIP\tilde{e}C\%_{\mu}P_{\mu}PSPSC\sqcup C\sqcup Pe PrC-P^{\circ}C\Gamma C, PsP \gg C-C\ddagger PSPsPiPs, C, P^{\circ}Pe C-$
 $C\Gamma P\tilde{e}C\Gamma C, PsP \gg C-C\ddagger PSPsPiPs C, P\tilde{e}C\Gamma PeCr, P\tilde{I}C\tilde{H}PsC, P_{\mu} PIPsPSPs PSP_{\mu} P\pm CrP \gg Ps$
 $C\Gamma C, P^{\circ}C, P\tilde{e}C\Gamma C, P\tilde{e}C\ddagger PSPs P \cdot PSP^{\circ}C\ddagger CrC\%_{\mu}P\tilde{e}Pj PrP \gg C\sqcup \tilde{P}iPsPIP_{\mu}C\tilde{H}PSP_{\mu}PSPSC\sqcup C, P\tilde{e}C\Gamma PeCr$
 $PrPs PIP\tilde{e}C...C-PrPSPsPiPs C\tilde{H}C-PIPSC\sqcup PI CrC\Gamma C-C... P\tilde{I}C\tilde{H}Cr\tilde{P}iP^{\circ}C... PrPsP \cdot$
 $PrPsC\Gamma P \gg C-PrP\parallel CrPIP^{\circ}PSPsPiPs PrC-P^{\circ}P\tilde{I}P^{\circ}P \cdot PsPSCr C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg Cr [PSP\tilde{e}P \cdot CHPeC-$
 $PrPsP \cdot P\tilde{e} (0,625 PjPib\tilde{H} "2,5 PjPi), C\Gamma P_{\mu}C\tilde{H}P_{\mu}PrPSC- PrPsP \cdot P\tilde{e} (2,5 PjPib\tilde{H} "10 PjPi) P^{\circ}P\pm Ps$
 $PIP\tilde{e}C\Gamma PsPeC- PrPsP \cdot P\tilde{e} (5 PjPib\tilde{H} "20 PjPi)] P \cdot C\tilde{H}PsP \cdot C\tilde{H}P^{\circ}C...CrPSPeCr P \cdot P^{\circ} PjP^{\circ}C\Gamma PsC\tilde{H}$
 $C, C-P \gg P^{\circ}. Pj PrPsC\Gamma P \gg C-PrP\parallel CrPIP^{\circ}PSC-PN_{\tilde{e}} \tilde{P}iP_{\mu}PrC-P^{\circ}C, C\tilde{H}P\tilde{e}C\ddagger PSC-PN_{\tilde{e}} \tilde{P}iPsP\tilde{I}CrP \gg C\sqcup C\ddagger C-C-$
 $C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg PSP_{\mu} PIP\tilde{e}C\sqcup PIP \gg C\sqcup PI P \gg C-PSC-PN_{\tilde{e}}PSPsPiPs PrPsP \cdot PsP \cdot P^{\circ}P \gg P_{\mu}P\parallel PSPsPiPs$
 $P_{\mu}C, P_{\mu}PeC, Cr.$

$P\alpha P^{\circ}C\tilde{H}PjP^{\circ}PePsPeC-PSP_{\mu}C, P\tilde{e}PeP^{\circ}.$

$P^{\circ}C\Gamma PjPsPeC, CrPIP^{\circ}PSPSC\sqcup.$

$P_{\mu}C-C\Gamma P \gg C\sqcup \tilde{P}iP_{\mu}C\tilde{H}PsC\tilde{H}P^{\circ}P \gg CHPSPsPiPs P\tilde{I}C\tilde{H}P\tilde{e}PN_{\tilde{e}}PsPjCr C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg C\epsilon PIP\tilde{e}PrPePs$
 $PI C\Gamma PjPsPeC, CrC^{\circ}C, CHC\Gamma C\sqcup P \cdot C- C\epsilon P \gg CrPSPePsPIP s-PeP\tilde{e}C\epsilon PePsPIP sPiPs C, C\tilde{H}P^{\circ}PeC, Cr.$
 $P_{\tilde{H}}P^{\circ}PeC\Gamma P\tilde{e}PjP^{\circ}P \gg CHPSP^{\circ} PePsPSC\ddagger P_{\mu}PSC, C\tilde{H}P^{\circ}C\ddagger C-C\sqcup Cr \tilde{P}iP \gg P^{\circ}P \cdot PjC- PeC\tilde{H}PsPIC-B (C_{max})$
 $PrPsC\Gamma C\sqcup PiP^{\circ}C^{\circ}C, CHC\Gamma C\sqcup P\tilde{I}C\tilde{H}PsC, C\sqcup PiPsPj 1 PiPsPrP\tilde{e}PSP\tilde{e}. P- PsPiP \gg C\sqcup PrCr PSP^{\circ}$
 $PeC-P \gg CHPeC-C\Gamma C, CH C\tilde{H}P_{\mu}C\ddagger PsPIP\tilde{e}PSP\tilde{e}, PIP\tilde{e}C\sqcup PIP \gg P_{\mu}PSPsC- Cr C\Gamma P_{\mu}C\ddagger C-,$
 $C\Gamma C, CrP\tilde{I}C-PSCH PIC\Gamma PjPsPeC, CrPIP^{\circ}PSPSC\sqcup C\Gamma C, P^{\circ}PSPsPIP\tilde{e}C, CH C\%_{\mu}PsPSP^{\circ}PN_{\tilde{e}}PjP_{\mu}PSC\epsilon P_{\mu}$
 $56 \%, B C- PSP^{\circ} PSCHPsPiPs C\Gamma CrC, C, C^{\circ}PIP s PSP_{\mu} PIP\tilde{I}P \gg P\tilde{e}PIP^{\circ}C^{\circ} PSP^{\circ}C\sqcup PIPSC-C\Gamma C, CH$
 $C-P\parallel C- Cr C\epsilon P \gg CrPSPePsPIP s-PeP\tilde{e}C\epsilon PePsPIP sPjCr C, C\tilde{H}P^{\circ}PeC, C-.$
 $P^{\circ}C-PsPrPsC\Gamma C, CrP\tilde{I}PSC-C\Gamma C, CH P^{\circ}PeC, P\tilde{e}PIPSPsPiPs PjP_{\mu}C, P^{\circ}P\pm PsP \gg C-C, Cr$
 $C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg P^{\circ}C, Cr P\tilde{I}C-C\Gamma P \gg C\sqcup \tilde{P}iP_{\mu}C\tilde{H}PsC\tilde{H}P^{\circ}P \gg CHPSPsPiPs$
 $P \cdot P^{\circ}C\Gamma C, PsC\Gamma CrPIP^{\circ}PSPSC\sqcup C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg Cr Cr PrPsP \cdot C- 2,5 PjPi C-B B B 5 PjPi$
 $C\Gamma C, P^{\circ}PSPsPIP\tilde{e}C, CH 45 \%.$

$C_{max} C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg P^{\circ}C, Cr, C^{\circ}PrP\tilde{e}PSPsPiPs P^{\circ}PeC, P\tilde{e}PIPSPsPiPs PjP_{\mu}C, P^{\circ}P\pm PsP \gg C-C, Cr$
 $C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg Cr, PrPsC\Gamma C\sqcup PiP^{\circ}C^{\circ}C, CHC\Gamma C\sqcup C\ddagger P_{\mu}C\tilde{H}P_{\mu}P \cdot 2-4 PiPsPrP\tilde{e}PSP\tilde{e} P\tilde{I}C-C\Gamma P \gg C\sqcup$
 $P\tilde{I}C\tilde{H}P\tilde{e}PN_{\tilde{e}}PsPjCr C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg Cr. P_{\mu}C-C\Gamma P \gg C\sqcup P \cdot P^{\circ}C\Gamma C, PsC\Gamma CrPIP^{\circ}PSPSC\sqcup$
 $P \cdot PIP\tilde{e}C\ddagger PSP\tilde{e}C... PrPsP \cdot C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg Cr 1 C\tilde{H}P^{\circ}P \cdot PSP^{\circ} PrPsP\pm Cr C\tilde{H}C-PIPSPsPIP^{\circ}P\parallel PSP^{\circ}$
 $PePsPSC\ddagger P_{\mu}PSC, C\tilde{H}P^{\circ}C\ddagger C-C\sqcup C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg P^{\circ}C, Cr Cr \tilde{P}iP \gg P^{\circ}P \cdot PjC- PeC\tilde{H}PsPIC-$
 $PrPsC\Gamma C\sqcup PiP^{\circ}C^{\circ}C, CHC\Gamma C\sqcup P\tilde{I}C\tilde{H}P\tilde{e}P\pm P \gg P\tilde{e}P \cdot PSPs PSP^{\circ} 4-PN_{\tilde{e}} PrP_{\mu}PSCH P \gg C-PeCrPIP^{\circ}PSPSC\sqcup.$

$P PsP \cdot \tilde{P}iPsPrC-P \gg.$

$P-PIb\tilde{H}^{\text{TM}} C\sqcup P \cdot CrPIP^{\circ}PSPSC\sqcup C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg Cr P \cdot P\pm C-P \gg PeP^{\circ}PjP\tilde{e} \tilde{P}iP \gg P^{\circ}P \cdot PjP\tilde{e} PeC\tilde{H}PsPIC-$
 $C\Gamma C, P^{\circ}PSPsPIP\tilde{e}C, CH P\tilde{I}C\tilde{H}P\tilde{e}P\pm P \gg P\tilde{e}P \cdot PSPs 73 \%, P^{\circ} C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg P^{\circ}C, Cr B\tilde{H} " 56 \%.$

$P_{\tilde{H}}P_{\mu}C, P^{\circ}P\pm PsP \gg C-P \cdot Pj.$

$P P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg PjP^{\circ}PN_{\tilde{e}}P\parallel P_{\mu} \tilde{P}iPsPIPSC-C\Gamma C, C\tilde{H} PjP_{\mu}C, P^{\circ}P\pm PsP \gg C-P \cdot CrC^{\circ}C, CHC\Gamma C\sqcup PrPs$
 $C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg P^{\circ}C, Cr, PrP\tilde{e}PeP_{\mu}C, PsP\tilde{I}C-P\tilde{I}P_{\mu}C\tilde{H}P^{\circ}P \cdot P\tilde{e}PSPsPIP sPiPs P_{\mu}C, C-C\tilde{H}Cr,$
 $PrP\tilde{e}PeP_{\mu}C, PsP\tilde{I}C-P\tilde{I}P_{\mu}C\tilde{H}P^{\circ}P \cdot P\tilde{e}PSPsPIP sC- PeP\tilde{e}C\Gamma P \gg PsC, P\tilde{e} C- PiP \gg CHPeCrC\tilde{H}PsPSC-PrC-PI$
 $C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg Cr C- C\tilde{H}P^{\circ}PjC-P\tilde{I}C\tilde{H}P\tilde{e}P \gg P^{\circ}C, Cr.$

$P^{\circ}P\tilde{e}PIP_{\mu}PrP_{\mu}PSPSC\sqcup.$

$P^{\circ}P\tilde{e}PIP_{\mu}PrP_{\mu}PSPSC\sqcup PjP_{\mu}C, P^{\circ}P\pm PsP \gg C-C, C-PI PIC-PrP\pm CrPIP^{\circ}C^{\circ}C, CHC\Gamma C\sqcup$
 $\tilde{P}iP_{\mu}C\tilde{H}P_{\mu}PIP^{\circ}P\parallel PSPs C\epsilon P \gg C\sqcup C...PsPj PSP\tilde{e}C\tilde{H}PePsPIP sC- P_{\mu}PeC\Gamma PeC\tilde{H}P_{\mu}C\ddagger C-C-.$

P—PSPëP¶PµPSPSC¶ PePsPSC†PµPSC, CḡP°C†C— CḡP°PjC—PīCḡPëP»P°C, Cḡ Cḡ PīP»P°P·PjC—
PeCḡPsPIC— P±P°PiP°C, PsC,, P°P·PSPµ. P§PµCḡPµP· PīPsC, CḡP¶PSPµ
PSP°CḡPëC†CḡPIP°P»CHBPSPµ P·PīBḡ™ C¶P·CḡPIP°PSPSC¶ P· PḡPµPḡ C— PīPsPIC—P»CHBPSCḡ
PrPëCḡPsC†C—P°C†C—Cḡ P·C— P·PīBḡ™ C¶P·PeCḡ P· C,, PµCḡPjPµPSC, PsPj CḡP°PjC—PīCḡPëP»P°C,
PjP°C” PīCḡPsP»PsPSPiPsPIP°PSCḡ C, PµCḡPjC—PSP°P»CHBPSCḡ C,, P°P·Cḡ PIPëPIPµPrPµPSPSC¶
PīCḡPë PrCḡP¶Pµ PSPëP·CHPePëC... PePsPSC†PµPSC, CḡP°C†C—C¶C... Cḡ PīP»P°P·PjC—
PeCḡPsPIC—.

PµC—CḡP»C¶ PīCḡPëPñPsPjCḡ PīPsPIC, PsCḡPSPëC... PrPsP· CḡP°PjC—PīCḡPëP»Cḡ 1 CḡP°P· PSP°
PrPsP±Cḡ PµC,, PµPeC, PëPIPSPëPñ PīPµCḡC—PsPr PSP°PīC—PIPIPëPIPµPrPµPSPSC¶
CḡC, P°PSPsPIPëC, CH 13—17 PīPsPrPëPS PrP»C¶ PrPsP· 5—10 PjPi C— P±C—P»CHCëPµ PrP»C¶
PSPëP¶C†PëC... PrPsP· (1, 25—2, 5 PjPi). P C—P·PSPëC†C¶ P·CḡPjPsPIP»PµPSP° C, PëPj, C%Ps
P·PrP°C, PSC—CḡC, CH C,, PµCḡPjPµPSC, Cḡ PrPs P·PīBḡ™ C¶P·CḡPIP°PSPSC¶ P·
CḡP°PjC—PīCḡPëP»P°C, PsPj C” PSP°CḡPëC†CḡPIP°P»CHBPSPsCḡ. PµCḡPë
PīPµCḡPsCḡP°P»CHBPSPsPjCḡ PīCḡPëPñPsPjC— CḡP°P·PsPIPSC— PrPsP·Pë PīCḡPµPīP°CḡP°C, Cḡ
P°PSC— CḡP°PjC—PīCḡPëP», P°PSC— PñPsPiPs PjPµC, P°P±PsP»C—C, PSPµ
PIPëC¶PIP»C¶P»PëCḡC¶ Cḡ PīCḡCḡPrPSPsPjCḡ PjPsP»PsC†C—. PµCḡPsC, Pµ PSPµPIC—PrPsPjPs,
C¶PePëPñ PµC,, PµPeC, PjP°C” PīCḡPëPñPsPj PīPsPIC, PsCḡPSPëC... PrPsP·.

PµP°C†C—C”PSC, Pë C—P· PīPsCḡCḡCëPµPSPSC¶PjPë C,, CḡPSPeC†C— PSPëCḡPsPe (PrPëPI.
CḡPsP·PrC—P» B«PḡPīPsCḡC—P± P·P°CḡC, PsCḡCḡPIP°PSPSC¶ C, P° PrPsP·PëB»). Pj
PīP°C†C—C”PSC, C—PI C—P· PīPsCḡCḡCëPµPSPSC¶PjPë C,, CḡPSPeC†C— PSPëCḡPsPe
PSPëCḡPePsPIP° PµPeCḡPeCḡPµC†C—C¶ CḡP°PjC—PīCḡPëP»P°C, Cḡ P·PSPëP¶PµPSP°, P°
PSPëCḡPePsPIPëPñ PeP»C—CḡPµPSCḡ CḡP°PjC—PīCḡPëP»P°C, Cḡ PīCḡPsPīPsCḡC†C—PñPSPëPñ
PeP»C—CḡPµPSCḡCḡ PeCḡPµP°C, PëPSC—PSCḡ. PjPµ PīCḡPëP·PIPsPrPëC, CH PrPs
PīC—PrPIPëC%PµPSPSC¶ PePsPSC†PµPSC, CḡP°C†C— CḡP°PjC—PīCḡPëP»P°C, Cḡ Cḡ
PīP»P°P·PjC—, C¶PeP° P·PSPëP¶CḡC”C, CHCḡC¶ PīPsPIC—P»CHBPSC—CëPµ, PSC—P¶ PI PsCḡC—P±
C—P· PSPsCḡPjP°P»CHBPSPsCḡ C,, CḡPSPeC†C—C”Cḡ PSPëCḡPsPe.

PµP°C†C—C”PSC, Pë C—P· PīPsCḡCḡCëPµPSPSC¶PjPë C,, CḡPSPeC†C— PīPµC†C—PSPePë (PrPëPI.
CḡPsP·PrC—P» B«PḡPīPsCḡC—P± P·P°CḡC, PsCḡCḡPIP°PSPSC¶ C, P° PrPsP·PëB»). Pj
PīP°C†C—C”PSC, C—PI C—P· PīPsCḡCḡCëPµPSPSC¶PjPë C,, CḡPSPeC†C— PīPµC†C—PSPePë
PjPµC, P°P±PsP»C—P·Pj CḡP°PjC—PīCḡPëP»Cḡ P· CḡC, PIPsCḡPµPSPSC¶Pj
CḡP°PjC—PīCḡPëP»P°C, Cḡ P±CḡPI CḡPīPsPIC—P»CHBPSPµPSPëPñ C†PµCḡPµP·
P·PSPëP¶PµPSPSC¶ P°PeC, PëPIPSPsCḡC, C— PīPµC†C—PSPePsPIPëC... PµCḡC, PµCḡP°P·, P°
CḡC—PIPSC— CḡP°PjC—PīCḡPëP»Cḡ Cḡ PīP»P°P·PjC— PeCḡPsPIC— Cḡ C†PëC... PīP°C†C—C”PSC, C—PI
P±CḡP»Pë PīC—PrPIPëC%PµPSC—. P’C, C—Pj C_{max} CḡP°PjC—PīCḡPëP»P°C, Cḡ Cḡ C†PëC...
PīP°C†C—C”PSC, C—PI PSPµ PIC—PrCḡC—P·PSCḡCḡC, CHCḡC¶ PIC—Pr C, P°PePsC— PI
PsCḡC—P± C—P· PSPsCḡPjP°P»CHBPSPsCḡ C,, CḡPSPeC†C—C”Cḡ PīPµC†C—PSPePë.

PµPµCḡC—PsPr PīPsPrCḡPIP°PSPSC¶ PīCḡCḡPrPrCḡ.

PµC—CḡP»C¶ P·P°CḡC, PsCḡCḡPIP°PSPSC¶ PsPrPSPsCḡP°P·PsPIPSC— PrPsP·Pë
CḡP°PjC—PīCḡPëP»Cḡ PīPµCḡPsCḡP°P»CHBPSPs PñPsPiPs CḡC—PIPSC— PI PīCḡCḡPrPSPsPjCḡ
PjPsP»PsC†C— P±CḡP»Pë PSPëP¶C†Pµ PjPµP¶C— PIPëC¶PIP»PµPSPSC¶. PḡPrPSP°Pe PµC,, PµPeC,
PīCḡPë P±P°PiP°C, PsCḡP°P·PsPIPsPjCḡ P·P°CḡC, PsCḡCḡPIP°PSPSC— PSPµ PIC—PrPsPjPëPñ.

PµPµPrC—P°C, CḡPëC†PSP° PīPsPīCḡP»C¶C†C—C¶.

PḡP°CḡPjP°PePsPeC—PSPµC, PëC†PSPëPñ PīCḡPsC,, C—P»CH CḡP°PjC—PīCḡPëP»Cḡ
PrPsCḡP»C—PrP¶CḡPIP°PICḡC¶ Cḡ 30 PīPµPrC—P°C, CḡPëC†PSPëC... PīP°C†C—C”PSC, C—PI P·
P°CḡC, PµCḡC—P°P»CHBPSPsCḡ PīC—PīPµCḡC, PµPSP·C—C”Cḡ PIC—PePsPj 2—16 CḡPsPeC—PI P·

$P_j P^\circ C \Gamma P s C \bar{H} \ C, C-P \gg P^\circ > 10 \text{ PePi}$. $P_{\mu} C-C \Gamma P \gg C \bar{H} \ P \cdot P^\circ C \Gamma C, P s C \Gamma C \Gamma P I P^\circ P S P S C \bar{H} \ P r P s P \cdot P I C-P r \ 0,05$
 $P r P s \ 0,2 \ P_j P i / P e P i \ C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg C \bar{e} P I P \bar{e} P r P e P s \ C, P^\circ \ P \cdot P S P^\circ C \bar{H} P S P s C \bar{H} \ P j C-C \bar{H} P s C \bar{H}$
 $P_j P_{\mu} C, P^\circ P \pm P s P \gg C-P \cdot C \Gamma P I P^\circ P I C \Gamma C \bar{H} \ P r P s \ C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg P^\circ C, C \Gamma. \ C_{\max}$
 $C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg P^\circ C, C \Gamma \ P r P s C \Gamma C \bar{H} P i P^\circ P \gg P^\circ C \Gamma C \bar{H} \ C \bar{H} P_{\mu} C \bar{H} P_{\mu} P \cdot 2-3 \ P i P s P r P \bar{e} P S P \bar{e}$.
 $P_{\bar{L}} P \gg C-C \bar{H} P_{\mu} P S C \Gamma \ C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg P^\circ C, C \Gamma \ B \ P \cdot P S P^\circ C \bar{H} P S P s C \bar{H} \ P j C-C \bar{H} P s C \bar{H}$
 $P e P s C \bar{H} P_{\mu} P \gg C \bar{H} P I P^\circ P I \ P \cdot P \gg P s P i P^\circ C \bar{H} P \bar{e} C, P_j P s P_j \ P_j P^\circ C \Gamma P \bar{e} \ C, C-P \gg P^\circ \ (p < 0,01), \ P^\circ$
 $C, P^\circ P e P s P \bar{H} \ C-P \cdot P r P s P \cdot P s C \bar{H} \ P i C \bar{H} P_{\mu} P i P^\circ C \bar{H} P^\circ C, C \Gamma \ (p < 0,001)$. $P_{\bar{L}} P \gg C-C \bar{H} P_{\mu} P S C \Gamma \ C, P^\circ$
 $P s P \pm B \bar{H}^{\text{TM}} \ C'' P_j \ C \bar{H} P s P \cdot P i P s P r C-P \gg C \Gamma \ P \cdot P \pm C-P \gg C \bar{H} C \bar{e} C \Gamma P I P^\circ P \gg P \bar{e} C \Gamma C \bar{H} \ P i C \bar{H} C \bar{H} P_j P s$
 $P i C \bar{H} P s P i P s C \bar{H} C \bar{H} C-P N_{\bar{e}} P S P s \ P I C-P e C \Gamma \ P r C-C, P_{\mu} P N_{\bar{e}} \ C \Gamma \ P e P s P \bar{H} P S C-P N_{\bar{e}} \ P i C \bar{H} C \Gamma P i C-$
 $P r P s P \cdot C \Gamma P I P^\circ P S P S C \bar{H} \ P_{\mu} C \bar{H} P \bar{e} \ P \cdot P^\circ C \Gamma C, P s C \Gamma C \Gamma P I P^\circ P S P S C- \ P r P s P \cdot P \bar{e} \ 0,05 \ P_j P i / P e P i \ C \Gamma$
 $P r C-C, P_{\mu} P N_{\bar{e}} \ P \pm C \Gamma P \gg P s \ P r P s C \Gamma C \bar{H} P i P S C \Gamma C, P s \ C \bar{H} C-P I P S C-P I \ P_{\mu} P e C \Gamma P i P s P \cdot P \bar{e} C \bar{H} C-C-$,
 $C \bar{H} P e C- \ P \pm C \Gamma P \gg P \bar{e} \ P i P s C \bar{H} C-P I P S C \bar{H} P S P S P \bar{e} P_j P \bar{e} \ P \cdot P_{\mu} P e C \Gamma P i P s P \cdot P \bar{e} C \bar{H} C-C'' C \bar{H} \ C \Gamma$
 $P r P s C \bar{H} P s C \Gamma P \gg P \bar{e} C \dots \ P i C \bar{H} P \bar{e} \ P \cdot P^\circ C \Gamma C, P s C \Gamma C \Gamma P I P^\circ P S P S C- \ P r P s P \cdot P \bar{e} \ 5 \ P_j P i$
 $C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg C \Gamma. \ P' \ C \bar{H} P_{\mu} P \cdot C \Gamma P \gg C \bar{H} C, P^\circ C, C- \ P \cdot P^\circ C \Gamma C, P s C \Gamma C \Gamma P I P^\circ P S P S C \bar{H} \ P r P s P \cdot P \bar{e}$
 $0,2 \ P_j P i / P e P i \ C \Gamma \ P r C-C, P_{\mu} P N_{\bar{e}} \ P r P s C \Gamma C \bar{H} P i P^\circ P \gg P \bar{e} C \Gamma C \bar{H} \ C \bar{H} C-P I P S C-$
 $P_{\mu} P e C \Gamma P i P s P \cdot P \bar{e} C \bar{H} C-C-, \ C \bar{H} P e C- \ P \pm C \Gamma P \gg P \bar{e} \ P I P \bar{e} C \% P \bar{e} P_j P \bar{e}, \ P S C-P \bar{H} \ P i C \bar{H} P \bar{e}$
 $P \cdot P^\circ C \Gamma C, P s C \Gamma C \Gamma P I P^\circ P S P S C- \ P_j P^\circ P e C \Gamma P \bar{e} P_j P^\circ P \gg C \bar{H} P S P s C-$
 $C \bar{H} P_{\mu} P e P s P_j P_{\mu} P S P r P s P I P^\circ P S P s C- \ P r P s P \cdot P \bar{e} \ 10 \ P_j P i \ P S P^\circ \ P r P s P \pm C \Gamma \ C \Gamma$
 $P r P s C \bar{H} P s C \Gamma P \gg P \bar{e} C \dots$

$P'' P s P e P \gg C-P S C-C \bar{H} P S C- \ P r P^\circ P S C- \ P \cdot P \pm P_{\mu} P \cdot P i P_{\mu} P e P \bar{e}$.

$P_{\mu} C \bar{H} P \bar{e} \ P i P_{\mu} C \bar{H} P s C \bar{H} P^\circ P \gg C \bar{H} P S P s P_j C \Gamma \ P \cdot P^\circ C \Gamma C, P s C \Gamma C \Gamma P I P^\circ P S P S C- \ P i C \bar{H} P_{\mu} P i P^\circ C \bar{H} P^\circ C, C \Gamma$
 $C, P I P^\circ C \bar{H} P \bar{e} P S P^\circ P_j \ P \cdot B \bar{H}^{\text{TM}} \ C \bar{H} C \Gamma C \Gamma P I P^\circ P \gg P s C \Gamma C \bar{H} \ C \% P s \ C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg \ P S P_{\mu}$
 $C \Gamma P i C \bar{H} P \bar{e} C \bar{H} P \bar{e} P S C \bar{H} C'' \ P i P s C \Gamma C, C \bar{H} P \bar{e} C \dots \ C, P s P e C \Gamma P \bar{e} C \bar{H} P S P \bar{e} C \dots \ C \bar{H} P I P \bar{e} C \%.$
 $P'' P s C \Gamma P \gg C-P r P \bar{H} P_{\mu} P S P S C \bar{H} \ C-P \cdot \ C, C \bar{H} P \bar{e} P I P^\circ P \gg P \bar{e} P_j \ P i P_{\mu} C \bar{H} P s C \bar{H} P^\circ P \gg C \bar{H} P S P \bar{e} P_j$
 $P I P i P_{\mu} P r P_{\mu} P S P S C \bar{H} P_j \ P i C \bar{H} P_{\mu} P i P^\circ C \bar{H} P^\circ C, C \Gamma \ P i C \bar{H} P s P i P s P r P \bar{e} P \gg P \bar{e} \ P S P^\circ \ C \% C \Gamma C \bar{H} P^\circ C \dots,$
 $C \Gamma P s P \pm P^\circ P e P^\circ C \dots \ C, P^\circ \ P_j P^\circ P I P i P^\circ C \dots \ P_j \ P I C \Gamma C-C \dots \ C \bar{H} P \bar{e} C \dots \ C, C \bar{H} C \bar{H} P s C \dots \ P I P \bar{e} P r C-P I$
 $C, P I P^\circ C \bar{H} P \bar{e} P s \ C \Gamma P i P s C \Gamma C, P_{\mu} C \bar{H} C-P i P^\circ P \gg P \bar{e} C \Gamma C \bar{H} \ P \cdot P_j C-P S P \bar{e} \ P_{\mu} P \gg P_{\mu} P e C, C \bar{H} P s P \gg C-C, P S P s P i P s$
 $P \pm P^\circ P \gg P^\circ P S C \Gamma C \Gamma \ C, P^\circ \ P e P^\circ C \bar{H} C, P \bar{e} P S P \bar{e} \ P e C \bar{H} P s P I C-. \ P_j \ C \Gamma P s P \pm P^\circ P e \ C, P^\circ \ P_j P^\circ P I P i, \ C \bar{H} P e C-$
 $P s C, C \bar{H} P \bar{e} P_j C \Gamma P I P^\circ P \gg P \bar{e} \ P i C \bar{H} P_{\mu} P i P^\circ C \bar{H} P^\circ C, \ C \Gamma \ P r P s P \cdot C- \ 250 \ P_j P i / P e P i \ P_j P^\circ C \Gamma P \bar{e} \ C, C-P \gg P^\circ \ P S P^\circ$
 $P r P s P \pm C \Gamma, \ P \pm C \Gamma P \gg P s \ P i P s P_j C-C \bar{H} P_{\mu} P S P s \ P \cdot P S P^\circ C \bar{H} P_{\mu} P S P s C \bar{H} \ P \cdot P \pm C-P \gg C \bar{H} C \bar{e} P_{\mu} P S P S C \bar{H}$
 $C \bar{H} P e C \Gamma C, P^\circ P i P \gg P s P_j P_{\mu} C \bar{H} C \Gamma P \gg C \bar{H} C \bar{H} P S P s P i P s \ P^\circ P i P^\circ C \bar{H} P^\circ C, C \Gamma, \ C \% P s \ C'' \ P i C \bar{H} P s C \bar{H} P i P s P_j$
 $C, P^\circ C \bar{H} P_j P^\circ P e P s P r P \bar{e} P S P^\circ P_j C-C \bar{H} P S P s C- \ P^\circ P e C, P \bar{e} P I P S P s C \Gamma C, C- \ C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg C \Gamma.$
 $P \odot C \Gamma C \bar{H} C-, \ C \Gamma P s P \pm P^\circ P e P \bar{e} \ C, P^\circ \ P_j P^\circ P I P i P \bar{e} \ P i P_{\mu} C \bar{H} P_{\mu} P S P s C \Gamma P \bar{e} P \gg P \bar{e} \ P r P s P \pm P s P I C- \ P r P s P \cdot P \bar{e}$
 $P i C \bar{H} P_{\mu} P i P^\circ C \bar{H} P^\circ C, C \Gamma, \ C \bar{H} P e C- \ C \Gamma C, P^\circ P S P s P I P \bar{e} P \gg P \bar{e} \ 2; \ 2,5 \ C, P^\circ \ 8 \ P_j P i / P e P i \ P_j P^\circ C \Gamma P \bar{e} \ C, C-P \gg P^\circ$
 $P S P^\circ \ P r P s P \pm C \Gamma \ P I C-P r P i P s P I C-P r P S P s. \ P_{\mu} C \bar{H} P \bar{e} \ C \bar{H} C \bar{H} P s P_j C \Gamma \ P S P_{\mu} P \pm P^\circ P \bar{H} P^\circ P S C- \ P_{\mu} C, P_{\mu} P e C, P \bar{e}$
 $C \Gamma \ P S P \bar{e} C \dots \ P S P_{\mu} \ P I P \bar{e} P S P \bar{e} P e P^\circ P \gg P \bar{e}.$

$P'' P s C \Gamma P \gg C-P r P \bar{H} P_{\mu} P S P S C \bar{H} \ C \bar{H} P_{\mu} P i C \bar{H} P s P r C \Gamma P e C, P \bar{e} P I P S P s C- \ C, P s P e C \Gamma P \bar{e} C \bar{H} P S P s C \Gamma C, C-,$
 $P i C \bar{H} P s P i P_{\mu} P r P_{\mu} P S C- \ P S P^\circ \ C \% C \Gamma C \bar{H} P^\circ C \dots, \ P e C \bar{H} P s P \gg C \bar{H} C \dots \ C, P^\circ \ P_j P^\circ P I P i P^\circ C \dots, \ P S P_{\mu}$
 $P I P \bar{e} C \bar{H} P i P \bar{e} P \gg P \bar{e} \ P \bar{H} P s P r P S P \bar{e} C \dots \ C, P_{\mu} C \bar{H} P^\circ C, P s P i P_{\mu} P S P S P \bar{e} C \dots \ P I P \gg P^\circ C \Gamma C, P \bar{e} P I P s C \Gamma C, P_{\mu} P N_{\bar{e}}$
 $P i C \bar{H} P_{\mu} P i P^\circ C \bar{H} P^\circ C, C \Gamma. \ P \bar{K} P_{\mu} P i P^\circ C, P \bar{e} P I P S P \bar{e} P N_{\bar{e}} \ P I P i P \gg P \bar{e} P I \ P S P^\circ \ C, P_{\mu} C \bar{H} C, P \bar{e} P \gg C \bar{H} P S C-C \Gamma C, C \bar{H}$
 $P S P_{\mu} \ C \Gamma P i P s C \Gamma C, P_{\mu} C \bar{H} C-P i P^\circ P I C \Gamma C \bar{H} \ P^\circ P S C- \ C \Gamma \ C \Gamma P^\circ P_j C \bar{H} C-P I, \ P^\circ P S C- \ C \Gamma \ C \Gamma P^\circ P_j P \bar{e} C \bar{H}$
 $C \% C \Gamma C \bar{H} C-P I.$

$P' P I P_{\mu} P r P_{\mu} P S P S C \bar{H} \ C \bar{H} P^\circ P j C-P i C \bar{H} P \bar{e} P \gg C \Gamma \ C \Gamma P^\circ P_j P \bar{e} C \bar{H} C \bar{H} P_j \ C \% C \Gamma C \bar{H} C-P I \ P i C-P r \ C \bar{H} P^\circ C \Gamma$
 $P I P^\circ P i C-C, P S P s C \Gamma C, C- \ C, P^\circ \ P \gg P^\circ P e C, P^\circ C \bar{H} C-C- \ P i C \bar{H} P \bar{e} P \cdot P I P s P r P \bar{e} P \gg P s \ P r P s$
 $P S P_{\mu} P s P \pm P s C \bar{H} P s C, P S P s P i P s \ C \Gamma C \bar{e} P e P s P r P \bar{H} P_{\mu} P S P S C \bar{H} \ P S P \bar{e} C \bar{H} P s P e \ (C \bar{H} P s P \cdot C \bar{e} P \bar{e} C \bar{H} P_{\mu} P S P S C \bar{H}$
 $P S P \bar{e} C \bar{H} P e P s P I P s C- \ P_j P \bar{e} C \Gamma P e P \bar{e}) \ C \Gamma \ P i P s C, P s P_j C \Gamma C, P I P^\circ \ P i C \bar{H} P \bar{e} \ P \cdot P^\circ C \Gamma C, P s C \Gamma C \Gamma P I P^\circ P S P S C-$

PrPsP· 50 PjPi/PePi PjP°CfPë C,C-P»P° PSP° PrPsP±Cr C,P° PIPëC%Pμ.

P\$PëCfP»PμPSPSC- PIPëPiCfPpS±CrPIP°PSPSCf PSP° PjCrC,P°PiPμPSPSC-CfC,CH C-P·
P·P°CfC,PscfCfPIP°PSPSCfPj CfC-P·PSPëC... C,PμCfC,-CfPëCfC,PμPj PSPμ PIPëCfPIPëP»Pë
PjCrC,P°PiPμPSPSPëC... P°P±Ps PiPμPSPsC,PpëCfPëCfPSPëC... PIP»P°CfC,PëPIPsCfC,PμPNë
CfP°PjC-PiCfPëP»Cr.

РљР»С-РSC-СfPSC- С...Р°СfР°РеС,РμСfРëCfC,РëРëРë.

РμРsРeР°Р·Р°РSPSCf. В

P>C-PeCrPIP°PSPSCf P°CfC,PμCfC-P°P»CHPSPsC— PiC-PiPμCfC,PμPSP·C-C—.

PμCfPsC,,C-P»P°PeC,PëPeP° CfPμCfCfPμPIPs-CfCfPrPëPSPSPëC... P·P°C...PIPsCfCHPIP°PSCH:
P·PSPëP¶PμPSPSCf CfPμCfCfPμPIPs-CfCfPrPëPSPSPsC— P·P°C...PIPsCfCHPIP°PSPsCfC,C-
C,P° P»PμC,P°P»CHPSPëC... PIPëPiP°PrPeC-PI Cr PiP°CfC-C''PSC,C-PI C-P·:

- PIPëCfP°P¶PμPSPëPj CfPμCfCfPμPIPs-CfCfPrPëPSPSPëPj P·P°C...PIPsCfCHPIP°PSPSCfPj
P°C,PμCfPsC,CfPsPjP±PsC,PëCfPSPsPiPs PiPμPSPμP·Cr (PSP°CfPIPsC-CfC,CH PI
P°PSP°PjPSPμP·C- C-C€PμPjC-CfPSPsC— C...PIPsCfPsP±Pë CfPμCfCfCf P°P±Ps
C-PSCfCfP»CHC,Cf CfPë P·P°C...PIPsCfCHPIP°PSPSCf PiPμCfPëC,,PμCfPëCfPSPëC...
CfCfPrPëPS);

- PrC-P°P±PμC,PpPj, CfPeC- PjP°CHC,CH C%PsPSP°PNëPjPμPSC€Pμ PsPrPëPS
C,,P°PeC,Pscf CfPμCfCfPμPIPs-CfCfPrPëPSPSPsPiPs CfPëP·PëPeCr (PrPëPI.
CfPsP·PrC-P» B«PαP°CfPjP°PePsP»PsPiC-CfPSC- PIP»P°CfC,PëPIPsCfC,C-B»).

P>C-PeCrPIP°PSPSCf P·P°C...PIPsCfCHPIP°PSPSCf PSPëCfPsPe:

- PiPsCfP°C,PePsPIP° PeP»CrP±PsCfPePsPIP° PrC-P°P±PμC,PëCfPSP° PSPμC,,CfPsPiP°C,C-Cf,
PiCfPs CfPeCr CfPIC-PrCfPëC,CH PSP°CfPIPsC-CfC,CH
PjC-PeCfPsP°P»CHP±CrPjC-PSCfCfC-C—;

- PIPëCfP°P¶PμPSP° PeP»CrP±PsCfPePsPIP° PrC-P°P±PμC,PëCfPSP° PSPμC,,CfPsPiP°C,C-Cf,
PiCfPs CfPeCr CfPIC-PrCfPëC,CH PSP°CfPIPsC-CfC,CH
PjP°PeCfPsPiCfPsC,PμC—PSCfCfC-C—, Cr PiP°CfC-C''PSC,C-PI, CfPeC- PjP°CHC,CH
C%PsPSP°PNëPjPμPSC€Pμ PsPrPëPS C,,P°PeC,Pscf CfPμCfCfPμPIPs-CfCfPrPëPSPSPsPiPs
CfPëP·PëPeCr (PrPëPI. CfPsP·PrC-P» B«PαP°CfPjP°PePsP»PsPiC-CfPSC-
PIP»P°CfC,PëPIPsCfC,C-B»);

- PIPëCfP°P¶PμPSP° PeP»CrP±PsCfPePsPIP° PSPμPrC-P°P±PμC,PëCfPSP°
PSPμC,,CfPsPiP°C,C-Cf, PiCfPs CfPeCr CfPIC-PrCfPëC,CH PSP°CfPIPsC-CfC,CH
PjP°PeCfPsPiCfPsC,PμC—PSCfCfC-C-B B ≥ 3 Pi PSP° PrPsP±Cr (PrPëPI. CfPsP·PrC-P»
B«PαP°CfPjP°PePsP»PsPiC-CfPSC- PIP»P°CfC,PëPIPsCfC,C-B»).

P>C-PeCrPIP°PSPSCf CfPμCfCfPμPIPsC— PSPμPrPsCfC,P°C,PSPsCfC,C-, CfPeP°
CfCfPiCfPsPIPsPrP¶CfC''C,CHCfCf PeP»C-PSC-CfPSPëPjPë PiCfPsCfPIP°PjPë.

P'C,PscfPëPSPSP° PiCfPsC,,C-P»P°PeC,PëPeP° PiC-CfP»Cf PiPμCfPμPSPμCfPμPSPsPiPs

PiPsCfC,ChPsPiPs C-PSC,,P°ChPeC,Cr PjC-PsPeP°ChPrP°: P·PjPμPSC€PμPSPSCl
P»PμC,P°P»CHPSPëC... PIPëP°PrPeC-PI PïC-Pr C†P°Cf PiPsCfC,ChPsC— CfC,P°PrC-C—
C-PSC,,P°ChPeC,Cr PjC-PsPeP°ChPrP° Cr PïP°C†C-C”PSC,C-PI P· PeP»C-PSC-C†PSPëPjPë
PsP·PSP°PeP°PjPë CfPμChC†PμPIPsC— PSPμPrPsCfC,P°C,PSPsCfC,C- P·P° CfPjPsPIPë
PïPsC†P°C,PeCr P»C-PeCrPIP°PSPSCl P±C-P»CHC€ PSC-P¶ C†PμChPμP· 48 PiPsPrPëPS
PïC-CfP»Cl PIPëPSPëPePSPμPSPSCl PiPsCfC,ChPsPiPs C-PSC,,P°ChPeC,Cr PjC-PsPeP°ChPrP°.

PμChPsC,PëPïPsPeP°P·P°PSPSCl.

P”C-PïPμChC†CrC,P»PëPIC-CfC,Ch PrPs PrC-ChC†PsC— ChPμC†PsPIPëPSPë P°P±Ps PrPs
P±CfPrCh-ClPePsC— P· PrPsPïPsPjC-P¶PSPëC... ChPμC†PsPIPëPS, C%Ps PIC...PsPrClC,Ch
PrPs CfPeP»P°PrCr PïChPμPïP°ChP°C,Cr, C†Pë PrPs C-PSC€PëC... C-PSPiC-P±C-C,PsChC-PI
PhPμPα. PkP°ClPIPSC-CfC,Ch PI P°PSP°PjPSPμP·C- P°PSPiC-PsPSPμPICChPsC,PëC†PSPsPiPs
PSP°P±ChClPeCr (CfPïP°PrPePsPIPsPiPs, C-PrC-PsPïP°C,PëC†PSPsPiPs C†Pë ChP°PSC-C€Pμ
PïPμChPμPSPμCfPμPSPsPiPs PSP° C,P»C- P·P°CfC,PsCfCrPIP°PSPSCl
C-PSPiC-P±C-C,PsChC-PI PhPμPα P°P±Ps P°PSC,P°PiPsPSC-CfC,C-PI ChPμC†PμPïC,PsChC-PI
P°PSPiC-PsC,PμPSP·PëPSCr P†P†). PhPrPSPsC†P°CfPSPμ P·P°CfC,PsCfCrPIP°PSPSCl C-P·
CfP°PeCrP±C-C,ChPëP»PsPj/PIP°P»CfP°ChC,P°PSPsPj (PrPëPI. ChPsP·PrC-P»Pë
B«P’P·P°C”PjPsPrC-Cl P· C-PSC€PëPjPë P»C-PeP°ChCfChPePëPjPë P·P°CfPsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNëB» C- B«PhCfPsP±P»PëPIPsCfC,C-
P·P°CfC,PsCfCrPIP°PSPSClB»). P—PSP°C†PSPëPNë PrPIPsP±C-C†PSPëPNë CfC,PμPSPsP·
PSPëChPePsPIPëC... P°ChC,PμChC-PNë P°P±Ps CfC,PμPSPsP· PSPëChPePsPIPsC—
P°ChC,PμChC-C— PïChPë PSP°ClPIPSPsCfC,C- C”PrPëPSPsC—
C,,CfPSPeC†C-PsPSCrChC†PsC— PSPëChPePë. P’P°PiC-C,PSC-CfC,Ch C,P°
PïP»P°PSCfPIP°PSPSCl PIP°PiC-C,PSPsCfC,C- (PrPëPI. ChPsP·PrC-P»
B«P—P°CfC,PsCfCrPIP°PSPSCl Cr PïPμChC-PsPr PIP°PiC-C,PSPsCfC,C- P°P±Ps
PiPsPrCfPIP°PSPSCl PïChCfPrPrChB»). P P°PjC-PïChPëP» PSPμ CfP»C-Pr
P·P°CfC,PsCfPsPICfPIP°C,Pë PïP°C†C-C”PSC,P°Pj P· P°ChC,PμChC-P°P»CHPSPsCh
PiC-PïPsC,PμPSP·C-C”Ch P°P±Ps PiPμPjPsPrPëPSP°PjC-C†PSPs PSPμCfC,P°P±C-P»CHPSPëPjPë
CfC,P°PSP°PjPë. PhPrPSPsC†P°CfPSPμ P·P°CfC,PsCfCrPIP°PSPSCl PïChPμPïP°ChP°C,Cr
P P°PjP°Pi C-P· PïChPμPïP°ChP°C,P°PjPë, C%Ps PjC-CfC,ClC,Ch P°P»C-CfPeC-ChPμPS,
PïChPsC,PëPïPsPeP°P·P°PSPμ PïP°C†C-C”PSC,P°Pj C-P· C†CfPeChPsPIPëPj PrC-P°P±PμC,PsPj
P°P±Ps PSPëChPePsPIPsCh PrPëCfC,,CfPSPeC†C-C”Ch (PëPμPα < 60 PjP)/C...PI/1,73 Pj²)
(PrPëPI. ChPsP·PrC-P»Pë B«PαP°ChPjP°PePsPrPëPSP°PjC-PeP°B» C- B«P’P·P°C”PjPsPrC-Cl P·
C-PSC€PëPjPë P»C-PeP°ChCfChPePëPjPë P·P°CfPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë
PIP·P°C”PjPsPrC-PNëB»). PkPμPsP±C...C-PrPSPs CrPSPëPeP°C,Pë PsPrPSPsC†P°CfPSPsPiPs
P·P°CfC,PsCfCrPIP°PSPSCl C-PSPiC-P±C-C,PsChC-PI PhPμPα C,P°
PμPeCfC,ChP°PePsChPïPsChP°P»CHPSPëC... PjPμC,PsPrC-PI P»C-PeCrPIP°PSPSCl, ClPeC-
PïChPëP·PIPsPrClC,Ch PrPs PePsPSC,P°PeC,Cr PeChPsPIC- P· PSPμPïP°C,PëPIPsPs
P·P°ChClPrP¶PμPSPëPjPë PïPsPIPμChC...PSClPjPë (PrPëPI. ChPsP·PrC-P»
B«P’P·P°C”PjPsPrC-Cl P· C-PSC€PëPjPë P»C-PeP°ChCfChPePëPjPë P·P°CfPsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»).

P’P·P°C”PjPsPrC-Cl P· C-PSC€PëPjPë P»C-PeP°ChCfChPePëPjPë P·P°CfPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNë.

P”P°PSC- PeP»C-PSC-C†PSPëC... PrPsCfP»C-PrP¶PμPSCh
PïChPsPrPμPjPsPSCfC,ChCfPIP°P»Pë, C%Ps PïPsPrPIC-PNëPSP° P±P»PsPeP°PrP° P PhPμPÿ

C€P»CЦC...PsPj PePsPjP±C-PSPsPIP°PSPsPiPs P·P°CГC,PsCГCрPIP°PSPSCЦ C-PSPIc-P±C-C,PsCГC-PI PhPμPα, P°PSC,P°PiPsPSC-CГC,C-PI CГPμC†PμPiC,PsCГC-PI P°PSPiC-PsC,PμPSP·PëPSCр II P°P±Ps P°P»C-CГPec-CГPμPSCр P°CГPsC†C-CГC”C,CHCГCЦ P·PiC-PrPIPëC%PμPSPsC C†P°CГC,PsC,PsC ПIPëPSPëPePSPμPSPSCЦ C,P°PePëC... PSPμP±P°P¶P°PSPëC... CЦPIPëC%, CЦPe P°CГC,PμCГC-P°P»CHPSP° PiC-PiPsC,PμPSP·C-CЦ, PiC-PiPμCГPeP°P»C-C”PjC-CЦ C,P° PiPsPiC-CГC€PμPSPSCЦ C„CрPSPeC†C-C— PSPëCГPsPe (Cр C,PsPjCр C†PëCГP»C- PiPsCГC,CГP° PSPëCГPePsPIP° PSPμPrPsCГC,P°C,PSC-CГC,CH), PiPsCГC-PIPSCЦPSPs C-P· P·P°CГC,PsCГCрPIP°PSPSCЦPj P»PëC€Pμ PsPrPSPsPiPs P·P°CГPsP±Cр, C%Ps PIPiP»PëPIP°C” PSP° P PhPjPŸ (PrPëPI. CГPsP·PrC-P»Pë B«PαP°CГPjP°PePsPrPëPSP°PjC-PeP°B», B«PμCГPsC,PëPiPsPeP°P·P°PSPSCЦB» C- B«PhCГPsP±P»PëPiPsCГC,C- P·P°CГC,PsCГCрPIP°PSPSCЦB»). PμCГPsC,PëPiPsPeP°P·P°PSC- PePsPjP±C-PSP°C†C-C—.

PhPrPSPsC†P°CГPSPμ P·P°CГC,PsCГCрPIP°PSPSCЦB C-PSPIc-P±C-C,PsCГC-PI PhPμPα C-P· CГP°PeC¿P±C-C,CГPëP»PsPj/PIP°P»CГP°CГC,P°PSPsPj PiCГPsC,PëPiPsPeP°P·P°PSPμ C†PμCГPμP· PiC-PrPIPëC%PμPSPëPμ CГPëP·PëPe CГPsP·PIPëC,PeCр P°PSPiC-PsPSPμPICГPsC,PëC†PSPsPiPs PSP°P±CГCЦPeCр (PrPëPI. CГPsP·PrC-P»Pë B«PμCГPsC,PëPiPsPeP°P·P°PSPSCЦB» C- B«PhCГPsP±P»PëPiPsCГC,C- P·P°CГC,PsCГCрPIP°PSPSCЦB»). P·C-PeCрPIP°PSPSCЦ CГP°PjC-PiCГPëP»PsPj CГP»C-Pr PiPsC†PëPSP°C,Pë P»PëC€Pμ C†PμCГPμP· 36 PiPsPrPëPS PiC-CГP»CЦ PiCГPëPμPsPjCр PsCГC,P°PSPSCHPsC— PrPsP·Pë CГP°PeCрP±C-C,CГPëP»Cр/PIP°P»CГP°CГC,P°PSCр. P·C-PeCрPIP°PSPSCЦ CГP°PeCрP±C-C,CГPëP»PsPj/PIP°P»CГP°CГC,P°PSPsPj CГP»C-Pr PiPsC†PëPSP°C,Pë P»PëC€Pμ C†PμCГPμP· 36 PiPsPrPëPS PiC-CГP»CЦ PiCГPëPμPsPjCр PsCГC,P°PSPSCHPsC— PrPsP·Pë CГP°PjC-PiCГPëP»Cр.

PμPμC,PsPrPë PμPeCГC,CГP°PePsCГPiPsCГP°P»CHPSPsC— C,PμCГP°PiC-C—, PI CГPμP·CрP»CHC,P°C,C- CЦPePëC... PIC-PrP±CрPIP°C”C,CHCГCЦ PePsPSC,P°PeC, PeCГPsPIC- P· PSPμPiP°C,PëPIPSPs P·P°CГCЦPrP¶PμPSPëPjPë PiPsPIPμCГC...PSCЦPjPë, C,P°PeC- CЦPe PrC-P°P»C-P· P°P±Ps PiPμPjPsC„C-P»CHC,CГP°C†C-CЦ C-P· PIPëPePsCГPëCГC,P°PSPSCЦPj PiPμPIPSPëC... PjPμPjP±CГP°PS P· PIPëCГPsPePsC C-PSC,PμPSCГPëPIPSC-CГC,CГ PiPsC,PsPeCр (PSP°PiCГPëPeP»P°Pr, PjPμPjP±CГP°PS P· PiPsP»C-P°PeCГPëP»PsPSC-C,CГPëP»Cр) C,P° P°C„PμCГPμP· P»C-PiPsPiCГPsC,PμC—PSC-PI PSPëP·CHPePsC— C%C-P»CHPSPsCГC,C- C-P· P·P°CГC,PsCГCрPIP°PSPSCЦPj PrPμPeCГC,CГP°PSCр CГCрP»CHC„P°C,Cр, P· PsPiP»CЦPrCр PSP° PiC-PrPIPëC%PμPSPëPμ CГPëP·PëPe CГPsP·PIPëC,PeCр C,CЦP¶PePëC... P°PSP°C„C-P»P°PeC,PsC—PrPSPëC... CГPμP°PeC†C-Pμ (PrPëPI. CГPsP·PrC-P» B«PμCГPsC,PëPiPsPeP°P·P°PSPSCЦB»). PiPeC%Ps C,P°PePμ P»C-PeCрPIP°PSPSCЦ PSPμPsP±C...C-PrPSPμ, CГP»C-Pr CГPsP·PiP»CЦPSCрC,Pë PiPëC,P°PSPSCЦ PiCГPs PIPëPePsCГPëCГC,P°PSPSCЦ C-PSC€PsC— PrC-P°P»C-P·PSPsC— PjPμPjP±CГP°PSPë P°P±Ps P·P°CГC,PsCГCрPIP°PSPSCЦ C-PSC€PsPiPs PeP»P°CГCр P°PSC,PëPiC-PiPμCГC,PμPSP·PëPIPSPëC... P·P°CГPsP±C-PI.

PμPsPjP±C-PSP°C†C-C—, C%Ps PIPëPjP°PiP°CГC,CH P·P°PiPsP±C-P¶PSPëC... P·P°C...PsPrC-PI.

PŸPsP»C- PeP°P»C-CГ, PiPμPiP°CГPëPS, PeP°P»C-PμP·P±PμCГC-PiP°CГC†C- PrC-C¿CГPμC,PëPePë C,P° C-PSC€C- P°PeC,PëPIPSC- CГPμC†PsPIPëPSPë, C%Ps P·P±C-P»CHC€C¿CГC,CH CГC-PIPμPSCH PeP°P»C-CГ C¿ PiP»P°P·PjC- PeCГPsPIC- (PIPeP»CГC†P°CГC†Pë P°PSC,P°PiPsPSC-CГC,Pë P°PSPiC-PsC,PμPSP·PëPSC¿ P†P†, C,CГPëPjPμC,PsPiCГPëPj C,P° PμPsPiPs C„C-PeCГPsPIP°PSC- PePsPjP±C-PSP°C†C-C— C-P· CГC¿P»CHC„P°PjPμC,PsPeCГP°P·PsP»PsPj, C,P°PeCГPsP»C-PjC¿CГ, C†PëPeP»PsCГPiPsCГPëPS). PμPsP¶Pμ PIPëPSPëPePSCрC,Pë PiC-PiPμCГPeP°P»C-C”PjC-CЦ, C,PsPjCр PiPsC,CГC-P±PSPs

$$P\ddot{Y}P\ddot{i}P\mu C\ddagger P\ddot{e}C, C-C\ddagger PSP^{\circ} \quad P\ddot{i}C-P\ddot{i}PsC\acute{I}P\mu PSC\acute{I}P\ddot{e}P\pm C-P\gg C-P\cdot P^{\circ}C\ddagger C-C\ddot{I}. \quad P'PSP^{\circ}C\acute{I}P\gg C-PrPsPe$$

$$C-PSPiC-P\pm C\acute{I}PiP^{\circ}PSPSC\ddot{I} \quad P\ddot{h}P\ddot{u}P\propto P\cdot C\ddot{h}PsC\acute{I}C, P^{\circ}C'' \quad C-PjPsPiC-C\ddot{h}PSC-C\acute{I}C, CH$$

PIPëPSPëPePSPµPSPSCİ C- C, CİP¶PeC-CİC, CH P°PSP°C, C-P»P°PeC, PëC‡PSPëC... C-
P°PSP°C, C-P»P°PeC, PsC—PrPSPëC... CĤPµP°PeC†C-PNë PSP° PsC, CĤCrC, Cr PePsPjP°C....
P'PIP°P¶P°C"C, CHCİCİC, C°Ps C, P°PeP° CĤPµP°PeC†C-CİC PjPsP¶Pµ C, P°PePsP¶
CİPİPsCİC, PµCĤC-PiP°C, PëCİCİC C- C°PsPrPs C-PSC€PëC... P°P»PµCĤPiPµPSC-PI.

P†PSPiC-P±C-C, PsCĤPë PjC-C€PµPSC- CĤP°PiP°PjC-C†PëPSCž Cž CİCİP°PIC†C-PI (mTOR)
P°P±Ps PIC-P»PrP°PiP»C-PiC, PëPS. PĤPsP¶P»PëPIPµ PiC-PrPIPëC°PµPSPSCİ
CĤPëP·PëPeCİ CĤPsP·PIPëC, PeCİ P°PSPiC-PsPSPµPICĤPsC, PëC‡PSPsPiPs
PSP°P±CĤCİPëCİ Cr PiP°C†C-C"PSC, C-PI, CİPeC- PsPrPSPsC‡P°CİPSPs
PsC, CĤPëPjCİCĤC, CH C, P°PeC- P·P°CİPSP±Pë, CİPe C-PSPiC-P±C-C, PsCĤPë mTOR
(PSP°PiCĤPëPeP»P°Pr, C, PµPjCİPëCĤPsP»C-PjCİCİ, PµPIPµCĤPsP»C-PjCİCİ,
CİPëCĤPsP»C-PjCİCİ) P°P±Ps PIC-P»PrP°PiP»C-PiC, PëPS. P PsP·PiPsC‡PëPSP°C, Pë C, P°PeCİ
C, PµCĤP°PiC-CĤ CİP»C-Pr P· PsP±PµCĤPµP¶PSC-CİC, CH (PrPëPI. CĤPsP·PrC-P»
B«PĤCİPSP±P»PëPIPsCİC, C- P·P°CİC, PsCİCİPIP°PSPSCİB»).

P P°C†PµPeP°PrPsC, CĤPëP». PµPsPIC-PrPsPjP»CİP»PsCİCİC PiCĤPs PiPsC, PµPSC†C-PNëPSPµ
P·CĤPsCİC, P°PSPSCİC CĤPëP·PëPeCİ CĤPsP·PIPëC, PeCİ P°PSPiC-PsPSPµPICĤPsC, PëC‡PSPsPiPs
PSP°P±CĤCİPëCİ PiCĤPë PsPrPSPsC‡P°CİPSPsPjCİ P·P°CİC, PsCİCİPIP°PSPSC-
C-PSPiC-P±C-C, PsCĤC-PI PĤPµPα C, P° C-PSPiC-P±C-C, PsCĤP° PkP·Pµ
(PSPµPNëC, CĤP°P»CHPSPsC— PµPSPrPsPiPµPiC, PëPrP°P·Pë), PSP°PiCĤPëPeP»P°Pr
CĤP°C†PµPeP°PrPsC, CĤPëP»Cİ (PrPëPI. CĤPsP·PrC-P» B«PĤCİPSP±P»PëPIPsCİC, C-
P·P°CİC, PsCİCİPIP°PSPSCİB»).

PŸP°PeCžP±C-C, CĤPëP»/PIP°P»CİP°CĤC, P°PS. PĤPrPSPsC‡P°CİPSPµ
P·P°CİC, PsCİCİPIP°PSPSCİB C-PSPiC-P±C-C, PsCĤC-PI PĤPµPα C-P·
CİP°PeCİP±C-C, CĤPëP»PsPj/ PIP°P»CİP°CĤC, P°PSPsPj PiCĤPsC, PëPiPsPeP°P·P°PSPµ
C‡PµCĤPµP· PiC-PrPIPëC°PµPSPëPNë CĤPëP·PëPe CĤPsP·PIPëC, PeCİ
P°PSPiC-PsPSPµPICĤPsC, PëC‡PSPsPiPs PSP°P±CĤCİPëCİ.

PĤCİPSP±P»PëPIPsCİC, C- P·P°CİC, PsCİCžPIP°PSPSCİ.

PĤCİPSP±P»PëPIC- PiCĤCžPiPë PiP°C†C-C"PSC, C-PI

P'P°PiC-C, PSC-CİC, CH. P>C-PeCİPIP°PSPSCİ C-PSPiC-P±C-C, PsCĤP°PjPë PĤPµPα P°P±Ps
P°PSC, P°PiPsPSC-CİC, P°PjPë CĤPµC†PµPiC, PsCĤC-PI P°PSPiC-PsC, PµPSP·PëPSCİ P†P† PSPµ
CİP»C-Pr CĤPsP·PiPsC‡PëPSP°C, Pë Cr PiPµCĤC-PsPr PIP°PiC-C, PSPsCİC, C-. P—P°
PIPëPSCİC, PePsPj PIPëPiP°PrPeC-PI, PePsP»Pë PiCĤPsPrPsPIP¶PµPSPSCİ P»C-PeCİPIP°PSPSCİ
C-PSPiC-P±C-C, PsCĤPsPj PĤPµPα/P°PSC, P°PiPsPSC-CİC, P°PjPë CĤPµC†PµPiC, PsCĤC-PI
P°PSPiC-PsC, PµPSP·PëPSCİ P†P† C" P°P±CİPSP»CĤC, PSPs PSPµPsP±C...C-PrPSPëPj,
PiP°C†C-C"PSC, PsPe, CİPeC- PiP»P°PSCİCĤC, CH P·P°PIP°PiC-C, PSC-C, Pë,
PSPµPsP±C...C-PrPSPs PiPµCĤPµPIPµCİC, Pë PSP° C-PSC€PëPNë
P°PSC, PëPiC-PiPµCĤC, PµPSP·PëPIPSPëPNë PiCĤPµPiP°CĤP°C,, P·P°CİC, PsCİCİPIP°PSPSCİ
CİPePsPiPs Cr PiPµCĤC-PsPr PIP°PiC-C, PSPsCİC, C- PIPëP·PSP°PSPs P±PµP·PiPµC‡PSPëPj. PiPe
C, C-P»CHPePë P±CİPrPµ PrC-P°PiPSPsCİC, PsPIP°PSPs PIP°PiC-C, PSC-CİC, CH,
P»C-PeCİPIP°PSPSCİ C-PSPiC-P±C-C, PsCĤP°PjPë PĤPµPα/P°PSC, P°PiPsPSC-CİC, P°PjPë
CĤPµC†PµPiC, PsCĤC-PI P°PSPiC-PsC, PµPSP·PëPSCİ P†P† CİP»C-Pr PSPµPiP°PNëPSPs
PiCĤPëPiPëPSPëC, Pë C, P° Cr CĤP°P·C- PSPµPsP±C...C-PrPSPsCİC, C- CĤPsP·PiPsC‡P°C, Pë
P»C-PeCİPIP°PSPSCİ C-PSC€PëPj PiCĤPµPiP°CĤP°C, PsPj (PrPëPI. CĤPsP·PrC-P»Pë
B«PµCĤPsC, PëPiPsPeP°P·P°PSPSCİB» C, P° B«P—P°CİC, PsCİCİPIP°PSPSCİ Cr PiPµCĤC-PsPr
PIP°PiC-C, PSPsCİC, C- P°P±Ps PiPsPrCİPIP°PSPSCİ PiCĤCİPrPrCĤB»).

PuPsPrPIC-PMSP° P±P»PsPeP°PrP° P PhPhPŸ.

P†C†PSCrCĤC,CH PrPsPeP°P·PsPIC- PrP°PSC- PSP° PePsCĤPëC†C,CH C,PsPiPs, C%Ps
PsPrPSPSc†P°C†PSPµ P·P°C†C,PsC†C†PIP°PSPSCĬ C-PSPiC-P±C-C,PsCĤC-PI PhPµPα,
P°PSC,P°PiPsPSC-C†C,C-PI CĤPµC†PµP†C,PsCĤC-PI P°PSPiC-PsC,PµPSP·PëPSCr II P°P±Ps
P°P»C-C†PeC-CĤPµPSCr PiC-PrPIPëC%CrC” CĤPëP·PëPe P°CĤC,PµCĤC-P°P»CHPSPSc—
PiC-PiPsC,PµPSP·C-C—, PiC-PiPµCĤPeP°P»C-C”PjC-C— C,P° PiPsPiC-CĤC€PµPSPSCĬ
C,,C†PSPeC†C-C— PSPëCĤPsPe (Cr C,PsPjCr C†PëC†P»C- CĤPsP·PIPëC,PeCr PiPsC†C,CĤPsC—
PSPëCĤPePsPiPsC— PSPµPrPsC†C,P°C,PSPSc†C,C-). Pj P·PiBĤ™ CĬP·PeCr P· C†PëPj
PiPsPrPIC-PMSP° P±P»PsPeP°PrP° P PhPhPŸ C€P»CĬC...PsPj PePsPjP±C-PSPiP°PSPsPiPs
P·P°C†C,PsC†C†PIP°PSPSCĬ C-PSPiC-P±C-C,PsCĤC-PI PhPµPα, P°PSC,P°PiPsPSC-C†C,C-PI
CĤPµC†PµP†C,PsCĤC-PI P°PSPiC-PsC,PµPSP·PëPSCr II P°P±Ps P°P»C-C†PeC-CĤPµPSCr PSPµ
CĤPµPePsPjPµPSPrC†C”C,CHC†CĬ (PrPëPI. CĤPsP·PrC-P»Pë
B«P°CĤPjP°PePsPrPëPSP°PjC-PeP°B» C- B«P’P·P°C”PjPsPrC-CĬ P· C-PSC€PëPjPë
P»C-PeP°CĤC†CHPePëPjPë P·P°C†PsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PMB»).

PiPeC%Ps C,PµCĤP°PiC-CĬ Cr PIPëPiP»CĬPrC- C,P°PePsC— PiPsPrPIC-PMSPSc—
P±P»PsPeP°PrPë CĤPsP·C†C-PSCĤC”C,CHC†CĬ CĬPe P°P±C†PsP»CĤC,PSPs
PSPµPsP±C...C-PrPSP°, PIPsPSP° PiPsPIPëPSPSP° P·P°C†C,PsC†PsPIC†PIP°C,PëC†CĬ P»PëC€Pµ
PiC-Pr PSP°PiP»CĬPrPsPj C†PiPµC†C-P°P»C-C†C,P° C,P° P·P° C†PjPsPIPë C†P°C†C,PsPiPs C-
CĤPµC,PµP»CHPSPsPiPs PePsPSC,CĤPsP»CĤ C,,C†PSPeC†C-C— PSPëCĤPsPe, PIPjC-C†C,C†
PµP»PµPeC,CĤPsP»C-C,C-PI C,P° CĤC-PIPSCĬ P°CĤC,PµCĤC-P°P»CHPSPsPiPs C,PëC†PeCr.

P†PSPiC-P±C-C,PsCĤPë PhPµPα C- P°PSC,P°PiPsPSC-C†C,Pë CĤPµC†PµP†C,PsCĤC-PI
P°PSPiC-PsC,PµPSP·PëPSCr II PSPµ PjPsP¶PSP° PsPrPSPSc†P°C†PSPs
P·P°C†C,PsC†PsPIC†PIP°C,Pë PiP°C†C-C”PSC,P°Pj C-P· PrC-P°P±PµC,PëC†PSPScĤ
PSPµC,,CĤPsPiP°C,C-C”CĤ.

PµP°C†C-C”PSC,Pë, Cr CĬPePëC... C-C†PSCrC” PsC†PsP±P»PëPIPëPM CĤPëP·PëPe
PIPëPSPëPePSPµPSPSCĬ P°CĤC,PµCĤC-P°P»CHPSPSc— PiC-PiPsC,PµPSP·C-C—.

PµP°C†C-C”PSC,Pë P·C- P·PSP°C†PSPëPj PiC-PrPIPëC%PµPSPSCĬPj P°PeC,PëPIPSPSc†C,C-
P PhPhPŸ. Pj PiP°C†C-C”PSC,C-PI P·C- P·PSP°C†PSPëPj PiC-PrPIPëC%PµPSPSCĬPj
P°PeC,PëPIPSPSc†C,C- P PhPhPŸ C-C†PSCrC” CĤPëP·PëPe CĤP°PiC,PsPiPsPiPs
P·PSP°C†PSPsPiPs P·PSPëP¶PµPSPSCĬ P°CĤC,PµCĤC-P°P»CHPSPsPiPs C,PëC†PeCr C,P°
PiPsPiC-CĤC€PµPSPSCĬ C,,C†PSPeC†C-C— PSPëCĤPsPe PIPSP°C†P»C-PrPsPe
PiCĤPëPiPSC-C†PµPSPSCĬ PhPµPα, PsC†PsP±P»PëPIPs CĬPeC%Ps C-PSPiC-P±C-C,PsCĤ
PhPµPα C†Pë C†C†PiC†C,PSC-PM PrC-C†CĤPµC,PëPe PiCĤPëP·PSP°C†P°CĤC,CH PIPiPµCĤC€Pµ
P°P±Ps PIPiPµCĤC€Pµ PiC-PrPIPëC%CrCĤC,CH PrPsP·Cr. PŸCrC,C,C”PIPsPiPs
PiC-PrPIPëC%PµPSPSCĬ P°PeC,PëPIPSPSc†C,C- P PhPhPŸ, CĬPePµ PiPsC,CĤPµP±C†C”
PjPµPrPëC†PSPsPiPs PSP°PiP»CĬPrC†, PI C,PsPjCr C†PëC†P»C- PiPsC†C,C-PMSPsPiPs
PePsPSC,CĤPsP»CĤ P°CĤC,PµCĤC-P°P»CHPSPsPiPs C,PëC†PeCr, PjPsP¶PSP°
PsC†C-PeCrPIP°C,Pë, PSP°PiCĤPëPeP»P°Pr, Cr PiP°C†C-C”PSC,C-PI:

- P· C,CĬP¶PePsCĤ P°CĤC,PµCĤC-P°P»CHPSPScĤ PiC-PiPµCĤC,PµPSP·C-C”CĤ;
- P· PrPµPePsPjPiPµPSC†PsPIP°PSPScĤ P·P°C†C,C-PMSPScĤ C†PµCĤC†PµPIPsCĤ
PSPµPrPsC†C,P°C,PSC-C†C,CĤ;
- P· PiPµPjPsPrPëPSP°PjC-C†PSPs P·PSP°C†CrC%PsCĤ PiPµCĤPµC€PePsPrPsCĤ PrP»CĬ
PiCĤPëC,PsPeCr P°P±Ps PIC-PrC,PsPeCr PeCĤPsPIC- P· P»C-PIPsPiPs C€P»C†PSPSc†PeP°
(PSP°PiCĤPëPeP»P°Pr, P·C- C†C,PµPSPsP·PsPj P°PsCĤC,P°P»CHPSPsPiPs P°P±Ps

PjC-C, CḡP°P»CHḡPSPsPiPs PeP»P°PḡP°PSP°);

- B P· PsPrPSPsP±C-CḡPSPḡPj CḡC, PḡPSPsP·PsPj PSPḡCḡPePsPIPsC—
P°CḡC, PḡCḡC-C— PḡCḡPḡ PSP°CḡPIPsCḡC, C- PrCḡCḡPiPsC—
C,,CḡPSPeCḡC-PsPSCḡCḡPsC— PSPḡCḡPePḡ;

- Cḡ CḡPePḡC... C-CḡPSCḡC” P°P±Ps PjPsPḡPḡ CḡPsP·PIPḡPSCḡC, PḡCḡCḡ PSPḡCḡC, P°CḡP°
CḡC-PrPḡPSPḡ P°P±Ps PḡP»PḡPeC, CḡPsP»C-C, C-PI (PIPeP»CḡCḡP°CḡCḡPḡ C, PḡC..., C...C, Ps
PsC, CḡPḡPjCḡC” PrC-CḡCḡPḡC, PḡPePḡ);

- C-P· CḡPḡCḡPsP·PsPj PḡPḡCḡC-PSPePḡ C, P°/P°P±Ps P°CḡCḡPḡC, PsPj;

- CḡPePḡPj PIPḡPePsPSCḡCḡ, CHḡ PIPḡP»PḡPeC- C...C-CḡCḡCḡPiC-CḡPSC-
PIC, CḡCḡCḡP°PSPSCḡ P°P±Ps PḡC-Pr CḡP°Cḡ P°PSPḡCḡC, PḡP·C-C— C-P·
P·P°CḡC, PsCḡCḡPIP°PSPSCḡPj PḡCḡPḡPḡP°CḡP°C, C-PI, C°Ps CḡPḡCḡCḡPḡPSCḡCḡ, CHḡ
P°CḡC, PḡCḡC-P°P»CHḡPSCḡ PiC-PḡPsC, PḡPSP·C-Cḡ.

P—P°P·PIPḡCḡP°Pḡ, CḡPḡPePsPjPḡPSPḡCḡC, CHḡCḡCḡ PḡCḡPsPIPḡCḡC, Pḡ PePsCḡPḡPeCḡC-Cḡ
PrPḡPiC-PrCḡP°C, P°CḡC-C—, PiC-PḡPsPIPsP»PḡPjC-C— P°P±Ps PSPḡCḡC, P°CḡC-
PḡP»PḡPeC, CḡPsP»C-C, C-PI PrPs PḡPsCḡP°C, PeCḡ P»C-PeCḡPIP°PSPSCḡ (PsPrPSP°Pe PrP»Cḡ
PḡP°CḡC-C”PSC, C-PI C-P· CḡPḡCḡCḡPḡPIPsCḡ PSPḡPrPsCḡC, P°C, PSC-CḡC, Cḡ C, P°PeC-
PePsCḡPḡPiCḡCḡCḡC- P·P°C...PsPrPḡ CḡP»C-Pr CḡPḡC, PḡP»CHḡPSPs P·PIP°PḡPḡC, Pḡ C°PsPrPs
CḡPḡP·PḡPeCḡ PIPḡPSPḡPePsPḡPSPSCḡ PḡPḡCḡPḡPIP°PSC, P°PḡPḡPSPSCḡ PsP±ḡḡ™C”PjPsPj).

PḡCḡP°PSP·PḡC, PsCḡPSP° P°P±Ps PḡPḡCḡCḡPḡCḡC, CḡCḡCḡP° CḡPḡCḡCḡPḡPIP°
PSPḡPrPsCḡC, P°C, PSC-CḡC, CHḡ PḡC-CḡP»Cḡ C-PSC,, P°CḡPeC, Cḡ PjC-PsPeP°CḡPrP°.

*PḡP°CḡC-C”PSC, Pḡ, Cḡ CḡPePḡC... C-CḡPSCḡC” CḡPḡP·PḡPe PIPḡPSPḡPePsPḡPSPSCḡ
CḡPḡCḡCḡPḡPIPsC— P°P±Ps CḡPḡCḡPḡPḡCḡP°P»CHḡPSPsC— C-CḡPḡPjC-C— Cḡ PIPḡPḡPḡPrPeCḡ
PiPsCḡC, CḡPsC— P°CḡC, PḡCḡC-P°P»CHḡPSPsC— PiC-PḡPsC, PḡPSP·C-C—.*

Pj PḡPsCḡP°C, PePsPIC-Pḡ C,, P°P·C- P»C-PeCḡPIP°PSPSCḡ PḡPsC, CḡC-P±PḡPS
PsCḡPsP±P»PḡPIPḡPḡ PjPḡPrPḡCḡPSPḡPḡ PSP°PiP»CḡPr.

PḡP°CḡC-C”PSC, Pḡ P»C-C, PSCḡPsPiPs PIC-PeCḡ.

P”PḡPI. CḡPsP·PrC-P» B«PḡPḡPsCḡC-P± P·P°CḡC, PsCḡCḡPIP°PSPSCḡ C, P° PrPsP·PḡB».

PḡC-CḡCḡCḡPiC-CḡPSPḡ PIC, CḡCḡCḡP°PSPSCḡ. PḡPeC°Ps CḡPḡ PjPsPḡP»PḡPIPs, C, Ps
P»C-PeCḡPIP°PSPSCḡ PḡPḡPḡ, C, P°PePḡPjPḡ CḡPe CḡP°PjC-PḡCḡPḡP», CḡP»C-Pr
PḡCḡPḡPḡPSPḡC, Pḡ P·P° 1 PrPḡPSCḡ PrPs PḡCḡPsPIPḡPrPḡPSPSCḡ
C...C-CḡCḡCḡPiC-CḡPSPsPiPs PIC, CḡCḡCḡP°PSPSCḡ.

PḡPsPSC, CḡPsP»CHḡ P·P° C,,CḡPSPeCḡC-C”Cḡ PSPḡCḡPsPe. PḡCḡPSPeCḡC-Cḡ PSPḡCḡPsPe
PḡPsC, CḡC-P±PSPs PsCḡC-PSCḡPIP°C, Pḡ PrPs C- PḡC-Pr CḡP°Cḡ PḡCḡPsPIPḡPrPḡPSPSCḡ
P»C-PeCḡPIP°PSPSCḡ C, P° PePsCḡPḡPiCḡPIP°C, Pḡ PrPsP·Cḡ, PsCḡPsP±P»PḡPIPs Cḡ PḡPḡCḡCḡC-
C, PḡPḡPSC- P»C-PeCḡPIP°PSPSCḡ. PḡCḡPsP±P»PḡPIPs CḡPḡC, PḡP»CHḡPSPḡPḡ
PePsPSC, CḡPsP»CHḡ PḡPsC, CḡC-P±PḡPS P·P° CḡC, P°PSPsPj PḡP°CḡC-C”PSC, C-PI C-P·
PḡPsCḡCḡCḡPḡPSPSCḡPjPḡ C,,CḡPSPeCḡC-C— PSPḡCḡPsPe (PrPḡPI. CḡPsP·PrC-P»
B«PḡPḡPsCḡC-P± P·P°CḡC, PsCḡCḡPIP°PSPSCḡ C, P° PrPsP·PḡB»). PḡCḡPSCḡC” CḡPḡP·PḡPe
PḡPsPiC-CḡCḡPḡPSPSCḡ PSPḡCḡPePsPIPsC— C,,CḡPSPeCḡC-C—, PsCḡPsP±P»PḡPIPs Cḡ
PḡP°CḡC-C”PSC, C-PI C-P· P·P°CḡC, C-PḡPSPsCḡ CḡPḡCḡCḡPḡPIPsCḡ
PSPḡPrPsCḡC, P°C, PSC-CḡC, Cḡ P°P±Ps PḡC-CḡP»Cḡ C, CḡP°PSCḡPḡP»P°PSC, P°CḡC-C—

PSPëCĤPePë, P° C, P°PePsP¶ Cŕ CĤP°P·C- CŕCĤP°P¶PµPSPSCĬ PSPëCĤPePsPIPëC... CŕCŕPrPëPS, PI C, PsPjCŕ C‡PëCŕP»C- Cŕ PiP°C†C-C”PSC, C-PI P· PiPµPjPsPrPëPSP°PjC-C‡PSPs P·PSP°C‡CŕC%PëPj PsPrPSPsP±C-C‡PSPëPj CŕC, PµPSPsP·PsPj PSPëCĤPePsPIPsC— P°CĤC, PµCĤC-C—.

PĥPSPiC-PsPSPµPICĤPsC, PëC‡PSPëPNë PSP°P±CĤCĬPe. PJ PiP°C†C-C”PSC, C-PI, CĬPeC- PsC, CĤPëPjCŕPIP°P»Pë C-PSPiC-P±C-C, PsCĤPë PĥPµPα, PIPeP»CĤC‡P°CĤC‡Pë CĤP°PjC-PiCĤPëP», CŕPiPsCŕC, PµCĤC-PiP°PICŕCĬ P°PSPiC-PsPSPµPICĤPsC, PëC‡PSPëPNë PSP°P±CĤCĬPe (PrPëPI. CĤPsP·PrC-P» B«PµPsP±C-C‡PSC- CĤPµP°PeC†C-C—B»). PiPµPNë CĤPëP·PëPe PiC-PrPIPëC%CŕC”C, CĤCŕCĬ Cŕ PiP°C†C-C”PSC, C-PI, CĬPeC- PsPrPSPsC‡P°CŕPSPs PsC, CĤPëPjCŕCĤC, CĤ C, P°PeC- P»C-PeP°CĤCŕCĤPeC- P·P°CŕPsP±Pë, CĬPe C-PSPiC-P±C-C, PsCĤPë PjC-CëPµPSC- CĤP°PiP°PjC-C†PëPSCŕ Cŕ CŕCŕP°PIC†C-PI (mTOR) B (PSP°PiCĤPëPeP»P°Pr, C, PµPjCŕPëCĤPsP»C-PjCŕCŕ, PµPIPµCĤPsP»C-PjCŕCŕ, CŕPëCĤPsP»C-PjCŕCŕ) P°P±Ps PIC-P»PrP°PiP»C-PiC, PëPS C‡Pë CĤP°C†PµPeP°PrPsC, CĤPëP».

PĥPsPjP±C-PSP°C†C-CĬ CĤP°PjC-PiCĤPëP»Cŕ C-P· CŕP°PeCŕP±C-C, CĤPëP»PsPj/PIP°P»CŕP°CĤC, P°PSPsPj PiCĤPsC, PëPiPsPeP°P·P°PSP° C‡PµCĤPµP· PiC-PrPIPëC%PµPSPëPNë CĤPëP·PëPe CĤPsP·PIPëC, PeCŕ P°PSPiC-PsPSPµPICĤPsC, PëC‡PSPsPiPs PSP°P±CĤCĬPeCŕ (PrPëPI. CĤPsP·PrC-P»Pë B«PµCĤPsC, PëPiPsPeP°P·P°PSPSCĬB» C- B«P·P·P°C”PjPsPrC-CĬ P· C-PSCëPëPjPë P»C-PeP°CĤCŕCĤPePëPjPë P·P°CŕPsP±P°PjPë C, P° C-PSCëC- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»).

PJ CĤP°P·C- CĤPsP·PIPëC, PeCŕ P°PSPiC-PsPSPµPICĤPsC, PëC‡PSPsPiPs PSP°P±CĤCĬPeCŕ PiCĤPëPNëPsPj PiCĤPµPiP°CĤP°C, Cŕ P P°PjP°Pi CŕP»C-Pr PiCĤPëPiPëPSPëC, Pë. PµPsC, CĤC-P±PSPs PSPµPiP°PNëPSPs CĤPsP·PiPsC‡P°C, Pë PSPµPIC-PrPeP»P°PrPSCŕ C, PµCĤP°PiC-CĤ. PµP°C†C-C”PSC, PiPsPIPëPSPµPS P·PSP°C...PsPrPëC, PëCŕCĤ PiC-Pr PjPµPrPëC‡PSPëPj PSP°PiP»CĬPrPsPj PiCĤPsC, CĬPiPsPj C%PSP°PNëPjPµPSCëPµ 12-24 PiPsPrPëPS C- PjPsP¶Pµ P±CŕC, Pë PIPëPiPëCŕP°PSPëPNë PiC-CŕP»CĬ PiPsPIPsPsPiPs P·PSPëPePSPµPSPSCĬ CŕPëPjPiC, PsPjC-PI.

PJ PiP°C†C-C”PSC, C-PI, CĬPeC- PsC, CĤPëPjCŕPIP°P»Pë C-PSPiC-P±C-C, PsCĤPë PĥPµPα, PIPeP»CĤC‡P°CĤC‡Pë P P°PjP°Pi, CŕPiPsCŕC, PµCĤC-PiP°P»PëCŕCĬ PIPëPiP°PrPePë P°PSPiC-PsPSPµPICĤPsC, PëC‡PSPsPiPs PSP°P±CĤCĬPeCŕ PePëCëPµC‡PSPëPeCŕ (PrPëPI. CĤPsP·PrC-P» B«PµPsP±C-C‡PSC- CĤPµP°PeC†C-C—B»). PiC- PiP°C†C-C”PSC, Pë CŕPeP°CĤP¶PëP»PëCŕCĬ PSP° P±C-P»CĤ Cŕ P¶PëPIPsC, C- (P· PSCŕPrPsC, PsCĤ/P±P»CĤHIP°PSPSCĬPj P°P±Ps P±PµP· PSPëC...).

PĥPSP°C,, C-P»P°PeC, PëC‡PSC- CĤPµP°PeC†C-C— PiC-Pr C‡P°Cŕ
PrPµCŕPµPSCŕPëP±C-P»C-P·P°C†C-C—. PµCĤPë P·P°CŕC, PsCŕCŕPIP°PSPSC- C-PSPiC-P±C-C, PsCĤC-PI PĥPµPα C-PjPsPIC-CĤPSC-CŕC, CĤ PIPëPSPëPePSPµPSPSCĬ C- C, CĬP¶PeC-CŕC, CĤ P°PSP°C,, C-P»P°PeC, PëC‡PSPëC... C- P°PSP°C,, C-P»P°PeC, PsC—PrPSPëC... CĤPµP°PeC†C-PNë PSP° PsC, CĤCŕC, Cŕ PePsPjP°C... C, P° C-PSCëC- P°P»PµCĤPiPµPSPë P·P±C-P»CĤCëCŕC”C, CĤCŕCĬ. PµPµCĤPµPr PiCĤPsPIPµPrPµPSPSCĬPj PrPµCŕPµPSCŕPëP±C-P»C-P·P°C†C-C— CŕP»C-Pr C, PëPjC‡P°CŕPsPIPs PiCĤPëPiPëPSPëC, Pë PiCĤPëPNëPsPj PiCĤPµPiP°CĤP°C, Cŕ P P°PjP°Pi.

PĥPsPSC, CĤPsP»CĤ PµP»PµPeC, CĤPsP»C-C, PSPsC— CĤC-PIPsPsPIP°PiPë.
P”C-PiPµCĤPeP°P»C-C”PjC-CĬ. PJ PrPµCĬPePëC... PiP°C†C-C”PSC, C-PI, CĬPeC- PsC, CĤPëPjCŕPIP°P»Pë C-PSPiC-P±C-C, PsCĤPë PĥPµPα, PIPeP»CĤC‡P°CĤC‡Pë PiCĤPµPiP°CĤP°C, P P°PjP°Pi, CŕPiPsCŕC, PµCĤC-PiP°P»PsCŕCĬ PIPëPSPëPePSPµPSPSCĬ PiC-PiPµCĤPeP°P»C-C”PjC-C—. P”Ps PiCĤCŕPiPë CĤPëP·PëPeCŕ PIPëPSPëPePSPµPSPSCĬ

PiC-PiPμCḡPeP°P»C-C°PjC-C— PSP°P»PμP¶P°C,CH PiP°C†C-C°PSC,Pë P· PSPëCḡPePsPIPsCḡ
PSPμPrPsCḡC,P°C,PSC-CḡC,Cḡ, PiP°C†C-C°PSC,Pë PIC-PePsPj PIC-Pr 70 CḡPsPeC-PI,
PiP°C†C-C°PSC,Pë P· PSPμPePsPSC,CḡPsP»CHPsPIP°PSPëPj C†CḡPeCḡPsPIPëPj
PrC-P°P±PμC,PsPj, PiP°C†C-C°PSC,Pë, CḡPeC- PiCḡPëPñPjP°CḡC,CH CḡPsP»C- PeP°P»C-Cḡ,
PeP°P»C-PñP·P±PμCḡC-PiP°CḡC±C- PrC-CḡCḡPμC,PëPePë, P° C,P°PePsP¶ C-PSC€C-
P°PeC,PëPIPSC- CḡPμC†PsPIPëPSPë, C°°Ps PiC-PrPIPëC°°CḡCḡC,CH PIPjC-CḡC, PeP°P»C-Cḡ
Cḡ PiP»P°P·PjC- PeCḡPsPIC-, P°P±Ps PiP°C†C-C°PSC,Pë P· C,P°PePëPjPë CḡC,P°PSP°PjPë, CḡPe
PrPμPiC-PrCḡP°C,P°C†C-Cḡ, PiPsCḡC,CḡP° CḡPμCḡC†PμPIP° PrPμPePsPjPiPμPSCḡP°C†C-Cḡ,
PjPμC,P°P±PsP»C-C†PSPëPñ P°C†PëPrPsP·. PiPeC°°Ps CḡCḡPjC-CḡPSPμ
P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PIPëC°°PμP·P°P·PSP°C†PμPSPëC... PiCḡPμPiP°CḡP°C,C-PI
PIPIP°P¶P°C,CḡCḡCḡ PrPsC†C-P»CHPSPëPj, C,Ps CḡPμPePsPjPμPSPPrCḡC,CḡCḡCḡ
CḡPμPiCḡP»CḡCḡPSPs PePsPSC,CḡPsP»CHPIP°C,Pë CḡC-PIPμPSCḡ PeP°P»C-Cḡ Cḡ
PiP»P°P·PjC- PeCḡPsPIC- (PrPëPI. CḡPsP·PrC-P» B«P·P·P°C°PjPsPrC-Cḡ P· C-PSC€PëPjPë
P»C-PeP°CḡCḡCHPePëPjPë P·P°CḡPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C°PjPsPrC-PñB»).

PḡPsPSC,CḡPsP»CH PμP»PμPeC,CḡPsP»C-C,PSPsC— CḡC-PIPSPsPIP°PiPë.
P°C-PiPsPSP°C,CḡC-C°PjC-Cḡ. Pj PrPμCḡPePëC... PiP°C†C-C°PSC,C-PI, CḡPeC-
PsC,CḡPëPjCḡPIP°P»Pë CḡP°PjC-PiCḡPëP», CḡPiPsCḡC,PμCḡC-PiP°PICḡCḡ CḡPëPSPPrCḡPsPj
PSPμP°PrPμPePIP°C,PSPsC— CḡPμPeCḡPμC†C-C— P°PSC,PëPrC-CḡCḡPμC,PëC†PSPsPiPs
PiPsCḡPjPsPSCḡ P· PiPsPrP°P»CHC€PëPj CḡPsP·PIPëC,PePsPj PiC-PiPsPSP°C,CḡC-C°PjC-C—.
P PμPePsPjPμPSPPrCḡC,CḡCḡCḡ CḡPμPiCḡP»CḡCḡPSPs PePsPSC,CḡPsP»CHPIP°C,Pë
CḡPëCḡPsPIP°C,PePsPIC- CḡC-PIPSC- PSP°C,CḡC-Cḡ Cḡ PsCḡC-P± P»C-C,PSCḡPsPiPs
PIC-PeCḡ C,P° Cḡ C-PSC€PëC... PiP°C†C-C°PSC,C-PI, CḡPeC- PjP°CḡC,CH CḡPëP·PëPe
CḡPsP·PIPëC,PeCḡ PiC-PiPsPSP°C,CḡC-C°PjC-C—.

PḡPμPñC,CḡPsPiPμPSC-Cḡ/P°PiCḡP°PSCḡP»PsC†PëC,PsP·. P°PëPiP°PrPePë
PSPμPñC,CḡPsPiPμPSC-C—/P°PiCḡP°PSCḡP»PsC†PëC,PsP·Cḡ, P° C,P°PePsP¶
C,CḡPsPjP±PsC†PëC,PsPiPμPSC-C— C- P°PSPμPjC-C— CḡPiPsCḡC,PμCḡC-PiP°P»PëCḡCḡ
CḡC-PrPePs. PḡP°PePsP¶ PiPsPIC-PrPsPjP»CḡP»PsCḡCḡ PiCḡPs PiCḡPëPiPSC-C†PμPSPSCḡ
C,,CḡPSPeC†C-C— PeC-CḡC,PePsPIPsPiPs PjPsP·PeCḡ. P— PjPμC,PsCḡ PIPëCḡPIP»PμPSPSCḡ
PjPsP¶P»PëPIPsC— P»PμPñPePsPiPμPSC-C— CḡPμPePsPjPμPSPPrCḡC,CḡCḡCḡ
PePsPSC,CḡPsP»CHPIP°C,Pë PeC-P»CHPeC-CḡC,CH P»PμPñPePsC†PëC,C-PI Cḡ PeCḡPsPIC-.
P°C-P»CHC€ C†P°CḡC,PëPñ PePsPSC,CḡPsP»CH P±P°P¶P°PSPs PiCḡPsPIPsPrPëC,Pë PSP°
PiPsC†P°C,PeCḡ P»C-PeCḡPIP°PSPSCḡ C,P° P·P° PiP°C†C-C°PSC,P°PjPë P·
PiPsCḡCḡC€PμPSPSCḡPjPë C,,CḡPSPeC†C-C— PSPëCḡPsPe, CḡCḡPiCḡC,PSC-Pj
PePsP»P°PiPμPSPsP·PsPj (PSP°PiCḡPëPeP»P°Pr, CḡPëCḡC,PμPjPSPëPj C†PμCḡPIPSPSPëPj
PIPsPIC†P°PePsPj P°P±Ps CḡPeP»PμCḡPsPrPμCḡPjC-C°Cḡ) P°P±Ps C,PëPjPë, C...C,Ps
PiCḡPëPñPjP°C° C-PSC€C- P»C-PeP°CḡCḡCHPeC- P·P°CḡPsP±Pë, CḡPeC- PjPsP¶CḡC,CH
CḡPiCḡPëC†PëPSPëC,Pë P·PjC-PSPë PeP°CḡC,PëPSPë PeCḡPsPIC- (PrPëPI. CḡPsP·PrC-P»Pë
B«P·P·P°C°PjPsPrC-Cḡ P· C-PSC€PëPjPë P»C-PeP°CḡCḡCHPePëPjPë P·P°CḡPsP±P°PjPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C°PjPsPrC-PñB» C- B«PμPsP±C-C†PSC- CḡPμP°PeC†C-C—B»).

P·C,PSC-C†PSC- PIC-PrPjC-PSPSPsCḡC,C-. P†PSPiC-P±C-C,PsCḡPë PḡPμPḡ C†P°CḡC,C-C€Pμ
CḡPiCḡPëC†PëPSCḡCḡC,CH P°PSPiC-PsPSPμPICḡPsC,PëC†PSPëPñ PSP°P±CḡCḡPe Cḡ
PiP°C†C-C°PSC,C-PI PSPμPiCḡPsC—PrPSPsC— CḡP°CḡPë, PSC-P¶ Cḡ
PiCḡPμPrCḡC,P°PIPSPëPeC-PI C-PSC€PëC... CḡP°Cḡ. PiPe C- C-PSC€C- C-PSPiC-P±C-C,PsCḡPë
PḡPμPḡ, PiC-PiPsC,PμPSP·PëPIPSP° PrC-Cḡ CḡP°PjC-PiCḡPëP»Cḡ PjPsP¶Pμ P±CḡC,Pë PjPμPSC€
PIPëCḡP°P¶PμPSPsCḡ Cḡ PiP°C†C-C°PSC,C-PI PSPμPiCḡPsC—PrPSPsC— CḡP°CḡPë
PiPsCḡC-PIPSCḡPSPs P· PiCḡPμPrCḡC,P°PIPSPëPeP°PjPë C-PSC€PëC... CḡP°Cḡ. PjPμ PjPsP¶Pμ
P±CḡC,Pë PsP±CḡPjPsPIP»PμPSPs C,PëPj, C°°Ps Cḡ PiP°C†C-C°PSC,C-PI
PSPμPiCḡPsC—PrPSPsC— CḡP°CḡPë P· P°CḡC,PμCḡC-P°P»CHPSPsCḡ

PiC-PiPμCḡC,PμPSP·C-C"CH C‡P°CÍC,C-C€Pμ CÍPiPsCÍC,PμCḡC-PiP°C" C,CHCÍCÍ CÍ
P°CḡC,PμCḡC-P°P»CHPSP° PiC-PiPμCḡC,PμPSP·C-CÍ P· PSPëP·CHPePsCH
P°PeC,PëPIPSC-CÍC,CH CḡPμPSC-PSCÍ.

PḡP°C€PμP»CH. PμCḡPë P·P°CÍC,PsCÍCÍPIP°PSPSC- C-PSPiC-P±C-C,PsCḡC-PI PḡPμPα
PiPsPIC-PrPsPjP»CÍP»PsCÍCÍ PiCḡPs PiPëPSPëPePSPμPSPSCÍ PeP°C€P»CH.
PÍP°CḡP°PeC,PμCḡPSPëPj C" C,Pμ, C%Ps PeP°C€PμP»CH PSPμPiCḡPsPrCÍPeC,PëPIPSPëPNë,
C,CḡPëPIP°P»PëPNë C- P·PSPëPeP°C" PiC-CÍP»CÍ PiCḡPëPiPëPSPμPSPSCÍ C,PμCḡP°PiC-C—.
PμCḡPë PrPëC,,PμCḡPμPSC†C-P°P»CHPSC-PNë PrC-P°PiPSPsCÍC,PëC†C- PeP°C€P»CH CÍP»C-Pr
PiP°PjḡTM CÍC,P°C,Pë PiCḡPë PjPsP¶P»PëPIC-CÍC,CH PiPëPSPëPePSPμPSPSCÍ PeP°C€P»CH
PIPSP°CÍP»C-PrPsPe P·P°CÍC,PsCÍCÍPIP°PSPSCÍ C-PSPiC-P±C-C,PsCḡC-PI PḡPμPα.

*P—P°CÍC,PsCÍCÍPIP°PSPSCÍ C¿ PiPμCḡC-PsPr PiP°PiC-C,PSPsCÍC,C- P°P±Ps
PiPsPrC¿PIP°PSPSCÍ PiCḡC¿PrPrCH.*

P'P°PiC-C,PSC-CÍC,CH. PμCḡPμPiP°CḡP°C, PiCḡPsC,PëPiPsPeP°P·P°PSPs
P·P°CÍC,PsCÍPsPICÍPIP°C,Pë PiP°PiC-C,PSPëPj P°P±Ps P¶C-PSPeP°Pj, CÍPeC-
PiP»P°PSCÍCHC,CH P·P°PiP°PiC-C,PSC-C,Pë. PiPeC%Ps PiP°PiC-C,PSC-CÍC,CH
PICÍC,P°PSPsPiP»PμPSP° PiC-Pr C‡P°CÍ C,PμCḡP°PiC-C—, PiCḡPëPNëPsPj PiCḡPμPiP°CḡP°C,CÍ
CÍP»C-Pr PSPμPiP°PNëPSPs PiCḡPëPiPëPSPëC,Pë C-, CÍPeC%Ps PSPμPsP±C...C-PrPSPs,
P·P°PjC-PSPëC,Pë C-PSC€PëPj P»C-PeP°CḡCÍCHPePëPj P·P°CÍPsP±PsPj, PrPsP·PiPsP»PμPSPëPj
PrPs P·P°CÍC,PsCÍCÍPIP°PSPSCÍ PiP°PiC-C,PSPëPj (PrPëPI. CḡPsP·PrC-P»
B«PμCḡPsC,PëPiPsPeP°P·P°PSPSCÍB»).

PμPμCḡC-PsPr PiPsPrC¿PIP°PSPSCÍ PiCḡC¿PrPrCH. PḡPμCḡPμP· P±CḡP°Pe
C-PSC,,PsCḡPjP°C†C-C— C%PsPrPs P·P°CÍC,PsCÍCÍPIP°PSPSCÍ CḡP°PjC-PiCḡPëP»CÍ PiC-Pr
C‡P°CÍ PiPsPrCÍPIP°PSPSCÍ PiCḡCÍPrPrCH (PrPëPI. CḡPsP·PrC-P»
B«PαP°CḡPjP°PePsP»PsPiC-C‡PSC- PiP»P°CÍC,PëPIPsCÍC,C-B») PSPμ
CḡPμPePsPjPμPSP†C" C,CHCÍCÍ PiCḡPëP·PSP°C‡P°C,Pë C†PμPNë PiCḡPμPiP°CḡP°C,
P¶C-PSPeP°Pj, CÍPeC- PiPsPrCÍCHC,CH PiCḡCÍPrPrCH, P±P°P¶P°PSPs PSP°PrP°PiP°C,Pë
PiPμCḡPμPiP°PiCÍ C-PSC€PëPj P»C-PeP°CḡCÍCHPePëPj P·P°CÍPsP±P°Pj,
P·P°CÍC,PsCÍCÍPIP°PSPSCÍ CÍPePëC... PiC-Pr C‡P°CÍ P»P°PeC,P°C†C-C— C" P±C-P»CHC€
P±PμP·PiPμC‡PSPëPj, PsCÍPsP±P»PëPIPs PiCḡPë PiCḡCÍPrPSPsPjCÍ
PiPëPiPsPrPsPICÍPIP°PSPSC- PSPsPiPsPSP°CḡPsPrP¶PμPSPëC... P°P±Ps
PSPμPrPsPSPsC€PμPSPëC... PSPμPjPsPiP»CÍC,.

*P—PrP°C,PSC-CÍC,CH PiPiP»PëPIP°C,Pë PSP° C€PIPëPrPeC-CÍC,CH CḡPμP°PeC†C-C— PiCḡPë
PePμCḡC¿PIP°PSPSC- P°PIC,PsC,CḡP°PSCÍPiPsCḡC,PsPj P°P±Ps C-PSC€PëPjPë
PjPμC...P°PSC-P·PjP°PjPë. P" PμCÍPeC- PiPsP±C-C‡PSC- PμC,,PμPeC,Pë (PSP°PiCḡPëPeP»P°Pr,
CÍPëPjPiC,PsPjPë P·PSPëP¶PμPSPSCÍ P°CḡC,PμCḡC-P°P»CHPSPsPiPs C,PëCÍPeCÍ, C,P°PeC-
CÍPe P·P°PiP°PjPsCḡPsC‡PμPSPSCÍ) PjPsP¶CÍC,CH PiPsCḡCÍC€CÍPIP°C,Pë
P·PrP°C,PSC-CÍC,CH PiP°C†C-C" PSC,P° PrPs PePsPSC†PμPSC,CḡP°C†C-C— CÍPIP°PiPë C-
P·PSPëP¶CÍPIP°C,Pë C€PIPëPrPeC-CÍC,CH PNëPsPiPs CḡPμP°PeC†C-C—, C%Ps C"
CḡPëP·PëPePsPiP°PSPëPj CÍ CÍPëC,CÍP°C†C-CÍC..., PePsP»Pë C†C- CÍPePsCÍC,C- PjP°CHC,CH
PsCÍPsP±P»PëPIPs PiPμP»PëPePμ P·PSP°C‡PμPSPSCÍ (PSP°PiCḡPëPeP»P°Pr, PiCḡPë
PePμCḡCÍPIP°PSPSC- C,CḡP°PSCÍPiPsCḡC,PSPëPjPë P·P°CÍPsP±P°PjPë P°P±Ps CḡPsP±PsC,C-
P· C-PSC€PëPjPë PjPμC...P°PSC-P·PjP°PjPë).*

РiРµ, Р·Р°Р·РiРёС±Р°Р№, РjРsР¶Р»РёРiРs РsР° РiРsС±Р°С,РёСр Р»С-РёСрРiР°РsРsСi Р°Р±Рs РiСђРё РiРµСђРµС...РsРrС- Р· С,РµСђР°РiС-С— С-РsСёРёРjРё РiСђРµРiР°СђР°С,Р°РjРё РsР° Р»С-РёСрРiР°РsРsСi РiСђРµРiР°СђР°С,РsРj Р Р°РjР°Рi. РµС-СрР»Сi РiСђРёР°РsРjСр РiРµСђРёСё— РrРsР·Рё Р°Р±Рs РiРsРrР°Р»СёСёРsРiРs РiС-РrРiРёС%РµРsРsСi РrРsР·Рё РsРµ Р±Р°Р°Р°Рs РёРµСђРiР°С,Рё С,СђР°РsСiРiРsСђС,РsРёРj Р·Р°СрРsР±РsРj Р°Р±Рs РiСђР°СрСђРiР°С,Рё Р· С-РsСёРёРjРё РjРµС...Р°РsС-Р·РjР°РjРё РiСђРsС,СiРiРsРj РёС-Р»СёРёСёС... РiРsРrРёРs.

РъРiРsСiС-Р± Р·Р°СiС,РsСiСёРiР°РsРsСi С,Р° РrРsР·Рё.

РµСђРµРiР°СђР°С, РrР»Сi РiРµСђРsСђР°Р»СёРsРiРs Р·Р°СiС,РsСiСрРiР°РsРsСi.

РµСђРµРiР°СђР°С, Р Р°РjР°Рi СђРµРёРjРµРsРrСrС"С,СёСiСi РiСђРёР°РjР°С,Рё С%РsРrРsСi Рi РsРrРёРs С- С,РsР№ СiР°РjРёР°Рё С±Р°Сi. РµСђРµРiР°СђР°С, РjРsР¶РsР° РiСђРёР°РjР°С,Рё РrРs, РiС-Рr С±Р°Сi С,Р° РiС-СрР»Сi С—РrРё, РsСiРёС-Р»СёРёРё РiР°РiР°РsРsСi С—РiС- РsРµ РiРiР»РёРiР°С" РsР° Р±С-РsРrРsСiС,СрРiРsС-СiС,Сё РiСђРµРiР°СђР°С,Ср. РъР°Р±Р»РµС,РёРё Р Р°РjР°Рi СiР»С-Рr РёРsРiС,Р°С,Рё СрС-Р»РёРjРё, Р·Р°РiРёРiР°СёС±Рё РiРsРrРsСё. Р±С... РsРµ РjРsР¶РsР° СђРsР·РiРsРiСрРiР°С,Рё Р°Р±Рs РiРsРrСђС-Р±РsСёРiР°С,Рё.

Р—Р° РsРµРjРsР¶Р»РёРёРiРsСiС,С- Р·Р°СiС,РsСiСрРiР°РsРsСi РiСђРёР·РsР°С±РµРsС— РrРsР·Рё СiР»С-Рr Р·Р°СiС,РsСiСРiСрРiР°С,Рё СђР°РjС-РiСђРёР» Ср РiС-РrРiРsРiС-РrРsРjСр РrРsР·РiРiР°РsРsС-.

Р"РsСђРsСiР»С-.

РµР°СрС-С"РsС,Рё, СiРёС- Р·Р°СiС,РsСiСРiСрРiС,Сё РrС-СрСђРµС,РёРё. РкР° РiРsС±Р°С,РёСр Р»С-РёСрРiР°РsРsСi РiСђРµРiР°СђР°С,РsРj Р Р°РjР°Рi РjРsР¶Рµ РiРёРsРёР°С,Рё Р°СђС,РµСђС-Р°Р»СёРsР° РiС-РiРsС,РµРsР·С-Сi, СђРsР·РiРёС,РsРё СiРёРsС— Р±С-Р»СёСё С-РjРsРiС-СђРsРёР° Ср РiР°СрС-С"РsС,С-Рi, СiРёС- РsРrРsС±Р°СiРs РsС,СђРёРjСрСёС,Сё РrС-СрСђРµС,РёРё. Рj РiРsРrС-Р±РsРё... РiРёРiР°РrРёР°С... СђРµРёРjРµРsРrСrС"С,СёСiСi РiРёСiРiР»СiС,Рё РsР±РµСђРµРiР°С-СiС,Сё, РsСiРёС-Р»СёРёРё Ср СрРёС... РiР°СрС-С"РsС,С-Рi РjРsР¶Р»РёРiРµ Р·РsРёРµРiРµРsРsСi РёРiРµ С,Р°/Р°Р±Рs РёС-Р»СёРёРsСiС,С- РµР»Р»РёРёС,СђРsР»С-С,С-Рi.

РiРёС%Рs РjРsР¶Р»РёРёРiРs, Р±Р°Р°Р°Рs РiСђРёРiРёРsРёС,Рё Р·Р°СiС,РsСiСрРiР°РsРsСi РrС-СрСђРµС,РёРё Р·Р°С 2-3 РrРsС- РrРs РiРsС±Р°С,РёСр Р»С-РёСрРiР°РsРsСi РiСђРµРiР°СђР°С,РsРj Р Р°РjР°Рi (РrРёРi. СђРsР·РrС-Р» В«РёСiРsР±Р»РёРiРsСiС,С- Р·Р°СiС,РsСiСрРiР°РsРsСiВ»).

Рj РiР°СрС-С"РsС,С-Рi Р· Р°СђС,РµСђС-Р°Р»СёРsРsСё РiС-РiРµСђРµС,РµРsР·С-С"Сё, СiРёРёРj РsРµ РjРsР¶РsР° РiС-РrРjС-РsРёС,Рё РrС-СрСђРµС,РёРё, Р»С-РёСрРiР°РsРsСi РiСђРµРiР°СђР°С,РsРj Р Р°РjР°Рi СiР»С-Рr РiРsС±РёРsР°С,Рё Р· РrРsР·Рё 1,25 РjРi (Р·Р°СiС,РsСiСРiСрРiР°С,Рё СђР°РjС-РiСђРёР» Ср РiС-РrРiРsРiС-РrРsРjСр РrРsР·РiРiР°РsРsС-). РъР»С-Рr СђРµС,РµР»СёРsРёРs РёРsРsС,СђРsР»СёРiР°С,Рё С,,СрРsРёСрС-Сё РsРёСђРsРё С,Р° СђС-РiРµРsСё РёР°Р»С-Сё Ср РёСђРsРiС-. РµРsРrР°Р»СёСёРµ РrРsР·РiРiР°РsРsСi РiСђРµРiР°СђР°С,Ср Р Р°РjР°Рi СiР»С-Рr РёРsСёРµРiСрРiР°С,Рё Р·Р°Р»РiРsРs РiС-Рr СрС-Р»СёРsРiРsРiРs СђС-РiРsСi Р°СђС,РµСђС-Р°Р»СёРsРiРs С,РёСiРёСр.

PhCTHC, PμCTHC-P°P»CHBPSP° PiC-PiPμCTHC, PμPSP·C-CII.

P°PsP·Cf CÍP»C-Pr PiC-PrP±PēCTHP°C, Pē C-PSPPrPēPIC-PrCfP°P»CHBPSPs, P·P°P»PμP¶PSPs
PIC-Pr PsCÍPsP±P»PēPIPsCÍC, PμPNē CÍC, P°PSCf PīP°C†C-C°PSC, P° (PrPēPI. CTjPsP·PrC-P»
B«PhCÍPsP±P»PēPIPsCÍC, C- P·P°CÍC, PsCÍCfPIP°PSPSCII B») C, P° CTjPμP·CfP»CHC, P°C, C-PI
PePsPSC, CTjPsP»CHBPSPēC... PIPēPjC-CTjCTHPIP°PSCH P°CTjC, PμCTjC-P°P»CHBPSPsPiPs
C, PēCÍPeCf. P P°PjP°Pi PjPsP¶PSP° P·P°CÍC, PsCÍPsPICfPIP°C, Pē CIIPe
PjPsPSPsC, PμCTjP°PiC-CT P°P±Ps Cf PePsPjP±C-PSP°C†C-C— P· C-PSCēPēPjPē PeP»P°CÍP°PjPē
P°PSC, PēPiC-PiPμCTjC, PμPSP·PēPIPsPēC... P»C-PeP°CTjCÍCHPePēC... P·P°CÍPsP±C-PI (PrPēPI.
CTjPsP·PrC-P»Pē B«PαP°CTjPjP°PePsPrPēPSP°PjC-PeP°B», B«PμCTjPsC, PēPiPsPeP°P·P°PSPSCII B»,
B«PhCÍPsP±P»PēPIPsCÍC, C- P·P°CÍC, PsCÍCfPIP°PSPSCII B») C- B«P·P·P°C°PjPsPrC-CII P·
C-PSCēPēPjPē P»C-PeP°CTjCÍCHPePēPjPē P·P°CÍPsP±P°PjPē C, P° C-PSCēC- PIPēPrPē
PIP·P°C°PjPsPrC-PNēB»).

PμPsC±P°C, PePsPIP° PrPsP·P°. P·C-PeCfPIP°PSPSCII PiCTjPμPiP°CTjP°C, PsPj P P°PjP°Pi
CÍP»C-Pr CTjPsP·PiPsC±PēPSP°C, Pē PiPsCÍC, CfPiPsPIPs, PiPsC±PēPSP°CTC±Pē P·
CTjPμPePsPjPμPSPPrPsPIP°PSPsC— PiPsC±P°C, PePsPIPsC— PrPsP·Pē 2,5 PjPi
(P·P°CÍC, PsCÍPsPICfPIP°C, Pē CTjP°PjC-PiCTjPēP» Cf PIC-PrPiPsPIC-PrPSPsPjCf
PrPsP·CfPIP°PSPSC-) PSP° PrPsP±Cf.

Pj PiP°C†C-C°PSC, C-PI P·C- P·PSP°C±PSPsCT P°PeC, PēPIP°C†C-C°CT P PhPjPŸ PiC-CÍP»CII
PiCTjPēPNēPsPjCf PiPsC±P°C, PePsPIPsC— PrPsP·Pē PjPsP¶Pμ PIPēPSPēPeP°C, Pē P·PSP°C±PSPμ
P·PSPēP¶PμPSPSCII P°CTjC, PμCTjC-P°P»CHBPSPsPiPs C, PēCÍPeCf. P°P»CII C, P°PePēC...
PiP°C†C-C°PSC, C-PI CTjPμPePsPjPμPSPPrPsPIP°PSP° PiPsC±P°C, PePsPIP° PrPsP·P°
CÍC, P°PSPsPIPēC, CH 1,25 PjPi (P·P°CÍC, PsCÍPsPICfPIP°C, Pē CTjP°PjC-PiCTjPēP» Cf
PIC-PrPiPsPIC-PrPSPsPjCf PrPsP·CfPIP°PSPSC-), P° C—C... P»C-PeCfPIP°PSPSCII
PiPsC, CTjC-P±PSPs CTjPsP·PiPsC±PēPSP°C, Pē PiC-Pr PjPμPrPēC±PSPēPj PSP°PiP»CII PrPsPj
(PrPēPI. CTjPsP·PrC-P» B«PhCÍPsP±P»PēPIPsCÍC, C- P·P°CÍC, PsCÍCfPIP°PSPSCII B»).

PŸPēC, CTjCfPIP°PSPSCII PrPsP·Pē C, P° PiC-PrC, CTjPēPjCfCTC±P° PrPsP·P°. B P°PsP·Cf
PjPsP¶PSP° PiPsPrPIPsCTHPIP°C, Pē PePsP¶PSC- 2-4 C, PēP¶PSC- PrPs PrPsCÍCII PiPSPμPSPSCII
C†C-P»CHBPSPsPiPs CTjC-PIPsCII P°CTjC, PμCTjC-P°P»CHBPSPsPiPs C, PēCÍPeCf;
PjP°PeCÍPēPjP°P»CHBPSP° PrPsP·P° PiCTjPμPiP°CTjP°C, Cf P P°PjP°Pi CÍC, P°PSPsPIPēC, CH 10
PjPi PSP° PrPsP±Cf. P—P°P·PIPēC±P°PNē, PiCTjPμPiP°CTjP°C, PiCTjPēPNēPjP°CTC, CH 1 CTjP°P·
PSP° PrPsP±Cf.

PμCTjPsC, C-P»P°PeC, PēPeP°B CÍPμCTjC†PμPIPs-CÍC¿PrPēPSPSPēC...
P·P°C...PIPsCTjCTHPIP°PSCH.

PμPsC±P°C, PePsPIP° PrPsP·P°. P PμPePsPjPμPSPPrPsPIP°PSP° PiPsC±P°C, PePsPIP° PrPsP·P°
PiCTjPμPiP°CTjP°C, Cf P P°PjP°Pi CÍC, P°PSPsPIPēC, CH 2,5 PjPi (P·P°CÍC, PsCÍPsPICfPIP°C, Pē
CTjP°PjC-PiCTjPēP» Cf PIC-PrPiPsPIC-PrPSPsPjCf PrPsP·CfPIP°PSPSC-) 1 CTjP°P· PSP° PrPsP±Cf.

PŸPēC, CTjCfPIP°PSPSCII PrPsP·Pē C, P° PiC-PrC, CTjPēPjCfCTC±P° PrPsP·P°. P—P°P»PμP¶PSPs
PIC-Pr C-PSPPrPēPIC-PrCfP°P»CHBPSPsC— PiPμCTjPμPSPsCÍPēPjPsCÍC, C- PiCTjPμPiP°CTjP°C, Cf
PrPsP·Cf CÍP»C-Pr PiPsCÍC, CfPiPsPIPs P·P±C-P»CHCēCfPIP°C, Pē.
P PμPePsPjPμPSPPrCfC°C, CHCÍCII PiPsPrPIPsC—C, Pē PrPsP·Cf C±PμCTjPμP· 1-2 C, PēP¶PSC-
P»C-PeCfPIP°PSPSCII, P° PiPsC, C-Pj BŸ“ C%oPμ C±PμCTjPμP· 2-3 C, PēP¶PSC- BŸ“
P·P±C-P»CHCēPēC, Pē C—C— PrPs C†C-P»CHBPSPsC— PiC-PrC, CTjPēPjCfCTC±PsC— PrPsP·Pē
10 PjPi 1 CTjP°P· PSP° PrPsP±Cf.

P·C-PeC¿PIP°PSPSCII P·P°C...PIPsCTjCTHPIP°PSPSCII PSPēCTjPsPe.

$P_{\mu}P^{\circ}C^{\dagger}C-C''PSC, P_{\ddot{e}}P \cdot PrC-P^{\circ}P \pm P_{\mu}C, PsP_j C, P^{\circ}P_jC-PeC_{\overline{H}}PsP^{\circ}P \gg CHBP \pm C \acute{z}P_jC-PSC \acute{z}C_{\overline{H}}C-C''C_{\overline{H}}$.

$P_{\mu}PsC \ddagger P^{\circ}C, PePsPIP^{\circ} PrPsP \cdot P^{\circ}$. P $P_{\mu}PePsP_jP_{\mu}PSP_rPsPIP^{\circ}PSP^{\circ} P_{\ddot{i}}PsC \ddagger P^{\circ}C, PePsPIP^{\circ} PrPsP \cdot P^{\circ}$
 $P_{\ddot{i}}C_{\overline{H}}P_{\mu}P_{\ddot{i}}P^{\circ}C_{\overline{H}}P^{\circ}C, C_r P P^{\circ}P_jP^{\circ}P_i C^{\dagger}C, P^{\circ}PSP_sPIP_{\ddot{e}}C, CH_1, 2,5 P_jP_i (P \cdot P^{\circ}C^{\dagger}C, PsC^{\dagger}PsPIC_rPIP^{\circ}C, P_{\ddot{e}}$
 $C_{\overline{H}}P^{\circ}P_jC-P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}}P \gg C_r PIC-PrP_{\ddot{i}}PsPIC-PrPSP_sP_jC_r PrPsP \cdot C_rPIP^{\circ}PSPSC-)$ 1 $C_{\overline{H}}P^{\circ}P \cdot PSP^{\circ} PrPsP \pm C_r$.

$P_{\ddot{y}}P_{\ddot{e}}C, C_{\overline{H}}C_rPIP^{\circ}PSPSC_{\overline{H}} PrPsP \cdot P_{\ddot{e}} C, P^{\circ} P_{\ddot{i}}C-PrC, C_{\overline{H}}P_{\ddot{e}}P_jC_rC_{\overline{H}}C \ddagger P^{\circ} PrPsP \cdot P^{\circ}$.
P— $P^{\circ}P \gg P_{\mu}P_{\overline{H}}PSP_s PIC-Pr C-PSP_rP_{\ddot{e}}PIC-PrC_rP^{\circ}P \gg CHBPSP_sC-$ $P_{\ddot{i}}P_{\mu}C_{\overline{H}}P_{\mu}PSP_sC^{\dagger}P_{\ddot{e}}P_jPsC^{\dagger}C, C-$
 $P_{\ddot{i}}C_{\overline{H}}P_{\mu}P_{\ddot{i}}P^{\circ}C_{\overline{H}}P^{\circ}C, C_r P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}} P_{\ddot{i}}PsPrP^{\circ}P \gg CHC_{\overline{e}}PsP_jC_r P \gg C-PeC_rPIP^{\circ}PSPSC- PrPsP \cdot C_r$
 $P \cdot P \pm C-P \gg CHC_{\overline{e}}C_rC_{\overline{H}}C, CH_1. P_{\overline{S}}P_{\mu}C_{\overline{H}}P_{\mu}P \cdot 2 C, P_{\ddot{e}}P_{\overline{H}}PSC- P \gg C-PeC_rPIP^{\circ}PSPSC_{\overline{H}} C_{\overline{H}}P^{\circ}P \cdot PsPIC_r$
 $PrPsP \pm PsPIC_r PrPsP \cdot C_r C_{\overline{H}}P_{\mu}PePsP_jP_{\mu}PSP_rC_rC''C, CHC^{\dagger}C_{\overline{H}} P_{\ddot{i}}PsPrPIPsC-C, P_{\ddot{e}} PrPs 2,5 P_jP_i$
 $(P \cdot P^{\circ}C^{\dagger}C, PsC^{\dagger}PsPIC_rPIP^{\circ}C, P_{\ddot{e}} C_{\overline{H}}P^{\circ}P_jC-P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}}P \gg C_r PIC-PrP_{\ddot{i}}PsPIC-PrPSP_sP_jC_r$
 $PrPsP \cdot C_rPIP^{\circ}PSPSC-), P^{\circ} P_{\ddot{i}}PsC, C-P_j PrPs 5 P_jP_i C_{\%}P_{\mu} C \ddagger P_{\mu}C_{\overline{H}}P_{\mu}P \cdot 2 C, P_{\ddot{e}}P_{\overline{H}}PSC-$
 $P \gg C-PeC_rPIP^{\circ}PSPSC_{\overline{H}}.$

$P_{\mu}P^{\circ}C^{\dagger}C-C''PSC, P_{\ddot{e}}P \cdot PrC-P^{\circ}P \pm P_{\mu}C, PsP_j C, P^{\circ}C_{\%}PsPSP^{\circ}P_{\overline{N}}P_jP_{\mu}PSC_{\overline{e}}P_{\mu} PsPrPSP_{\ddot{e}}P_j$
 $C_{\overline{H}}P^{\circ}PeC, PsC_{\overline{H}}PsP_j C^{\dagger}P_{\mu}C_{\overline{H}}C \ddagger P_{\mu}PIPs-C^{\dagger}C \acute{z}PrP_{\ddot{e}}PSPSP_sP_iPs C_{\overline{H}}P_{\ddot{e}}P \cdot P_{\ddot{e}}PeC \acute{z}.$

$P_{\mu}PsC \ddagger P^{\circ}C, PePsPIP^{\circ} PrPsP \cdot P^{\circ}$. P $P_{\mu}PePsP_jP_{\mu}PSP_rPsPIP^{\circ}PSP^{\circ} P_{\ddot{i}}PsC \ddagger P^{\circ}C, PePsPIP^{\circ} PrPsP \cdot P^{\circ}$
 $P_{\ddot{i}}C_{\overline{H}}P_{\mu}P_{\ddot{i}}P^{\circ}C_{\overline{H}}P^{\circ}C, C_r P P^{\circ}P_jP^{\circ}P_i C^{\dagger}C, P^{\circ}PSP_sPIP_{\ddot{e}}C, CH_2, 5 P_jP_i (P \cdot P^{\circ}C^{\dagger}C, PsC^{\dagger}PsPIC_rPIP^{\circ}C, P_{\ddot{e}}$
 $C_{\overline{H}}P^{\circ}P_jC-P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}}P \gg C_r PIC-PrP_{\ddot{i}}PsPIC-PrPSP_sP_jC_r PrPsP \cdot C_rPIP^{\circ}PSPSC-)$ 1 $C_{\overline{H}}P^{\circ}P \cdot PSP^{\circ} PrPsP \pm C_r$.

$P_{\ddot{y}}P_{\ddot{e}}C, C_{\overline{H}}C_rPIP^{\circ}PSPSC_{\overline{H}} PrPsP \cdot P_{\ddot{e}} C, P^{\circ} P_{\ddot{i}}C-PrC, C_{\overline{H}}P_{\ddot{e}}P_jC_rC_{\overline{H}}C \ddagger P^{\circ} PrPsP \cdot P^{\circ}$.
P— $P^{\circ}P \gg P_{\mu}P_{\overline{H}}PSP_s PIC-Pr C-PSP_rP_{\ddot{e}}PIC-PrC_rP^{\circ}P \gg CHBPSP_sC-$ $P_{\ddot{i}}P_{\mu}C_{\overline{H}}P_{\mu}PSP_sC^{\dagger}P_{\ddot{e}}P_jPsC^{\dagger}C, C-$
 $P_{\ddot{i}}C_{\overline{H}}P_{\mu}P_{\ddot{i}}P^{\circ}C_{\overline{H}}P^{\circ}C, C_r P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}} P_{\ddot{i}}PsPrP^{\circ}P \gg CHC_{\overline{e}}PsP_jC_r P \gg C-PeC_rPIP^{\circ}PSPSC- PrPsP \cdot C_r$
 $P \cdot P \pm C-P \gg CHC_{\overline{e}}C_rC_{\overline{H}}C, CH_1. P_{\overline{S}}P_{\mu}C_{\overline{H}}P_{\mu}P \cdot 1-2 C, P_{\ddot{e}}P_{\overline{H}}PSC- P \gg C-PeC_rPIP^{\circ}PSPSC_{\overline{H}} PrPsP \pm PsPIC_r$
 $PrPsP \cdot C_r P_{\ddot{i}}C_{\overline{H}}P_{\mu}P_{\ddot{i}}P^{\circ}C_{\overline{H}}P^{\circ}C, C_r P P^{\circ}P_jP^{\circ}P_i C_{\overline{H}}P_{\mu}PePsP_jP_{\mu}PSP_rC_rC''C, CHC^{\dagger}C_{\overline{H}} P_{\ddot{i}}PsPrPIPsC-C, P_{\ddot{e}}$
 $PrPs 5 P_jP_i, P^{\circ} P_{\ddot{i}}PsC, C-P_j PrPs 10 P_jP_i C_{\%}P_{\mu} C \ddagger P_{\mu}C_{\overline{H}}P_{\mu}P \cdot 2-3 C, P_{\ddot{e}}P_{\overline{H}}PSC-$
 $P \gg C-PeC_rPIP^{\circ}PSPSC_{\overline{H}}. P_{\ddot{i}}C-P \gg CHPsPIP^{\circ} PrPsP \pm PsPIP^{\circ} PrPsP \cdot P^{\circ} C^{\dagger}C, P^{\circ}PSP_sPIP_{\ddot{e}}C, CH_10 P_jP_i.$

$P_{\mu}P^{\circ}C^{\dagger}C-C''PSC, P_{\ddot{e}}P \cdot PSP_{\mu}PrC-P^{\circ}P \pm P_{\mu}C, P_{\ddot{e}}C \ddagger PSP_sC_{\overline{H}} PSP_{\mu}C_{\overline{H}}C_{\overline{H}}PsP_{\ddot{i}}P^{\circ}C, C-C''C_{\overline{H}}, P_{\ddot{i}}C_{\overline{H}}Ps$
 $C_{\overline{H}}PeC \acute{z} C^{\dagger}PIC-PrC \ddagger P_{\ddot{e}}C, CH_1 PSP^{\circ}C_{\overline{H}}PIPsC-C^{\dagger}C, CH_1 P_jP^{\circ}PeC_{\overline{H}}PsP_{\ddot{i}}C_{\overline{H}}PsC, P_{\mu}C-PSC \acute{z}C_{\overline{H}}C-C- \geq 3$
 $P_i PSP^{\circ} PrPsP \pm C_{\overline{z}}.$

$P_{\mu}PsC \ddagger P^{\circ}C, PePsPIP^{\circ} PrPsP \cdot P^{\circ}$. P $P_{\mu}PePsP_jP_{\mu}PSP_rPsPIP^{\circ}PSP^{\circ} P_{\ddot{i}}PsC \ddagger P^{\circ}C, PePsPIP^{\circ} PrPsP \cdot P^{\circ}$
 $P_{\ddot{i}}C_{\overline{H}}P_{\mu}P_{\ddot{i}}P^{\circ}C_{\overline{H}}P^{\circ}C, C_r P P^{\circ}P_jP^{\circ}P_i C^{\dagger}C, P^{\circ}PSP_sPIP_{\ddot{e}}C, CH_1, 2,5 P_jP_i (P \cdot P^{\circ}C^{\dagger}C, PsC^{\dagger}PsPIC_rPIP^{\circ}C, P_{\ddot{e}}$
 $C_{\overline{H}}P^{\circ}P_jC-P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}}P \gg C_r PIC-PrP_{\ddot{i}}PsPIC-PrPSP_sP_jC_r PrPsP \cdot C_rPIP^{\circ}PSPSC-)$ 1 $C_{\overline{H}}P^{\circ}P \cdot PSP^{\circ} PrPsP \pm C_r$.

$P_{\ddot{y}}P_{\ddot{e}}C, C_{\overline{H}}C_rPIP^{\circ}PSPSC_{\overline{H}} PrPsP \cdot P_{\ddot{e}} C, P^{\circ} P_{\ddot{i}}C-PrC, C_{\overline{H}}P_{\ddot{e}}P_jC_rC_{\overline{H}}C \ddagger P^{\circ} PrPsP \cdot P^{\circ}$.
P— $P^{\circ}P \gg P_{\mu}P_{\overline{H}}PSP_s PIC-Pr C-PSP_rP_{\ddot{e}}PIC-PrC_rP^{\circ}P \gg CHBPSP_sC-$ $P_{\ddot{i}}P_{\mu}C_{\overline{H}}P_{\mu}PSP_sC^{\dagger}P_{\ddot{e}}P_jPsC^{\dagger}C, C-$
 $P_{\ddot{i}}P^{\circ}C^{\dagger}C-C''PSC, PsP_j P_{\ddot{i}}C_{\overline{H}}P_{\mu}P_{\ddot{i}}P^{\circ}C_{\overline{H}}P^{\circ}C, C_r P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}} P_{\ddot{i}}PsPrP^{\circ}P \gg CHC_{\overline{e}}PsP_jC_r P \gg C-PeC_rPIP^{\circ}PSPSC-$
 $PrPsP \cdot C_r P \cdot P \pm C-P \gg CHC_{\overline{e}}C_rC_{\overline{H}}C, CH_1. P_{\overline{S}}P_{\mu}C_{\overline{H}}P_{\mu}P \cdot 2 C, P_{\ddot{e}}P_{\overline{H}}PSC- P \gg C-PeC_rPIP^{\circ}PSPSC_{\overline{H}}$
 $C_{\overline{H}}P^{\circ}P \cdot PsPIC_r PrPsP \pm PsPIC_r PrPsP \cdot C_r C_{\overline{H}}P_{\mu}PePsP_jP_{\mu}PSP_rC_rC''C, CHC^{\dagger}C_{\overline{H}} P_{\ddot{i}}PsPrPIPsC-C, P_{\ddot{e}}$
 $PrPs 2,5 P_jP_i (P \cdot P^{\circ}C^{\dagger}C, PsC^{\dagger}PsPIC_rPIP^{\circ}C, P_{\ddot{e}} C_{\overline{H}}P^{\circ}P_jC-P_{\ddot{i}}C_{\overline{H}}P_{\ddot{e}}P \gg C_r PIC-PrP_{\ddot{i}}PsPIC-PrPSP_sP_jC_r$
 $PrPsP \cdot C_rPIP^{\circ}PSPSC-), P^{\circ} P_{\ddot{i}}PsC, C-P_j PrPs 5 P_jP_i C_{\%}P_{\mu} C \ddagger P_{\mu}C_{\overline{H}}P_{\mu}P \cdot 2 C, P_{\ddot{e}}P_{\overline{H}}PSC-$
 $P \gg C-PeC_rPIP^{\circ}PSPSC_{\overline{H}}.$

$P_{\ddot{y}}P_{\mu}C_{\overline{H}}C \ddagger P_{\mu}PIP^{\circ} PSP_{\mu}PrPsC^{\dagger}C, P^{\circ}C, PSC-C^{\dagger}C, CH_1 C-P \cdot PeP \gg C-PSC-C \ddagger PSP_{\ddot{e}}P_jP_{\ddot{e}}$
 $P_{\ddot{i}}C_{\overline{H}}PsC_{\overline{H}}PIP^{\circ}P_jP_{\ddot{e}}.$

$P_{\mu}PsC \ddagger P^{\circ}C, PePsPIP^{\circ} PrPsP \cdot P^{\circ}$. P'' $P \gg C_{\overline{H}} P_{\ddot{i}}P^{\circ}C^{\dagger}C-C''PSC, C-PI, C^{\dagger}C, P^{\circ}PS C_{\overline{H}}PeP_{\ddot{e}}C...$
 $C^{\dagger}C, P^{\circ}P \pm C-P \gg C-P \cdot C_rPIP^{\circ}PIC^{\dagger}C_{\overline{H}} P_{\ddot{i}}C-C^{\dagger}P \gg C_{\overline{H}} P \gg C-PeC_rPIP^{\circ}PSPSC_{\overline{H}} PrC-C_rC_{\overline{H}}P_{\mu}C, P_{\ddot{e}}PeP^{\circ}P_jP_{\ddot{e}},$

C₇H₇PuPePsPjPuPSPPrPsPIP°PSP° PīPsC±P°C,PePsPIP° PrPsP·P° CíC,P°PSPsPIëC,CH 1,25 PjPi (P·P°CíC,PsCíP*s*PICrPIP°C,Pë C₇H₇P°PjC-PíC₇H₇PëP» Cr PIC-PrPīPsPIC-PrPSPsPjCr PrPsP·CíPIP°PSPSC-) PSP° PrPsP±Cí.

$\text{P}\ddot{\text{y}}\text{P}\ddot{\text{e}}\text{C}, \text{C}\ddot{\text{H}}\text{C}\ddot{\text{r}}\text{P}\text{IP}^\circ\text{PSPSC}\ddot{\text{U}} \text{ PrPsP}\cdot\text{P}\ddot{\text{e}} \text{ C}, \text{P}^\circ \text{ P}\ddot{\text{I}}\text{C}-\text{PrC}, \text{C}\ddot{\text{H}}\text{P}\ddot{\text{e}}\text{PjC}\ddot{\text{r}}\text{C}\ddot{\text{H}}\text{C}\ddot{\text{z}}\text{P}^\circ \text{ PrPsP}\cdot\text{P}^\circ, \text{P}^\circ\text{PsP}\cdot\text{C}\ddot{\text{r}}$
 $\text{P}\ddot{\text{I}}\text{C}\ddot{\text{H}}\text{P}\mu\text{P}\ddot{\text{I}}\text{P}^\circ\text{C}\ddot{\text{H}}\text{P}^\circ\text{C}, \text{C}\ddot{\text{r}} \text{ P} \text{ P}^\circ\text{PjP}^\circ\text{P}\ddot{\text{I}} \text{ C}, \text{P}\ddot{\text{e}}\text{C}, \text{C}\ddot{\text{H}}\text{C}\ddot{\text{r}}\text{C}\ddot{\text{H}}\text{C}, \text{C}\ddot{\text{H}} \text{ C}\ddot{\text{e}}\text{P}\rangle\text{C}\ddot{\text{U}}\text{C}\dots\text{PsPj} \text{ C}-\text{C}-$
 $\text{P}\ddot{\text{I}}\text{PsPrPIP}\text{S}\text{C}^\circ\text{PSPSC}\ddot{\text{U}} \text{ C}\ddot{\text{z}}\text{P}\mu\text{C}\ddot{\text{H}}\text{P}\mu\text{P}\cdot \text{PePsP}\P\text{PSC}-1-2 \text{ C}, \text{P}\ddot{\text{e}}\text{P}\P\text{PSC}- \text{PrPs} \text{ PrPsC}\ddot{\text{I}}\text{C}\ddot{\text{U}}\text{P}\ddot{\text{I}}\text{PSP}\mu\text{PSPSC}\ddot{\text{U}}$
 $\text{PjP}^\circ\text{PeC}\ddot{\text{I}}\ddot{\text{r}}\text{P}\ddot{\text{e}}\text{PjP}^\circ\text{P}\rangle\text{C}\ddot{\text{H}}\text{PSP}\text{S}\text{C}- \text{PrPsP}\pm\text{PsPIP}\text{S}\text{C}- \text{PrPsP}\cdot\text{P}\ddot{\text{e}} \text{ 10 PjPi. P}^\circ\text{P}^\circ\text{P}\P\text{P}^\circ\text{PSPs}$
 $\text{C}\ddot{\text{H}}\text{PsP}\cdot\text{P}\ddot{\text{I}}\text{PsPrC}-\text{P}\rangle\text{P}\ddot{\text{e}}\text{C}, \text{P}\ddot{\text{e}} \text{ PrPsP}\cdot\text{C}\ddot{\text{r}} \text{ PSP}^\circ \text{ 2 P}\ddot{\text{I}}\text{C}\ddot{\text{H}}\text{P}\ddot{\text{e}}\text{P}\text{N}\ddot{\text{e}}\text{PsPjP}\ddot{\text{e}}.$

$P'C, PsC\bar{H}P\bar{e}PSPSP^\circ$ $PiC\bar{H}PsC_{,,}C-P \gg P^\circ PeC, P\bar{e}PeP^\circ$ $PiC-ClP \gg ClI$ $PiP_\mu C\bar{H}P_\mu PSP_\mu ClP_\mu PSPsPiPs$
 $PiPsCl'C, C\bar{H}PsPiPs$ $C-PSC_{,,}P^\circ C\bar{H}PeC, C\acute{z}$ $PjC-PsPeP^\circ C\bar{H}PrP^\circ$ $PiC\bar{H}P\bar{e}$ $PSP^\circ ClPIPSPsCl'C, C-$
 $ClP_\mu C\bar{H}C\uparrow P_\mu PIPsC-$ $PSP_\mu PrPsCl'C, P^\circ C, PSPsCl'C, C-$.

PrPsC±P°C,PePsPIP° PrPsP·P°. PŠPμCṪPμP· 48 PiPsPrPēPS PiC-ĆŦP»CŹ
 PIPēPSPēPePSPμPSPSCŹ C-PSC,,P°CṪPeC,ĆŦ PjC-PsPeP°CṪPrP° PiP°CŦC-C”PSC,P°Pj, ĆŦC,P°PS
 CŹPePēC... C” PeP»C-PSC-CŦPSPs C,P° PiPμPjPsPrPēPSP°PjC-CŦPSPs ĆŦC,P°P±C-P»CHPSPēPj,
 PiCṪPēP·PSP°CŦP°CṪC,CH PiPsCŦP°C,PePsPICŦ PrPsP·ĆŦ 2,5 PjPi (P·P°CŦC,PsĆŦPsPICŦPIP°C,Pē
 CṪP°PjC-PiCṪPēP» ĆŦ PIC-PrPiPsPIC-PrPSPsPjĆŦ PrPsP·ĆŦPIP°PSPSC-) 2 CṪP°P·Pē PSP°
 PrPsP±ĆŦ PIPiCṪPsPrPsPIP¶ 3 PrPSC-PI. PŦPeC%Ps PiPsCŦP°C,PePsPIP° PrPsP·P° B 2,5 PjPi
 (P·P°CŦC,PsĆŦPsPICŦPIP°C,Pē CṪP°PjC-PiCṪPēP» ĆŦ PIC-PrPiPsPIC-PrPSPsPjĆŦ
 PrPsP·ĆŦPIP°PSPSC-) PiPμCṪPμPSPsĆŦPēC,CHĆŦCŹ PiPsPiP°PSPs, C,PsPrC- ĆŦP»C-Pr
 P·P°CŦC,PsĆŦPsPICŦPIP°C,Pē PrPsP·ĆŦ 1,25 PjPi (P·P°CŦC,PsĆŦPsPICŦPIP°C,Pē
 CṪP°PjC-PiCṪPēP» ĆŦ PIC-PrPiPsPIC-PrPSPsPjĆŦ PrPsP·ĆŦPIP°PSPSC-) 2 CṪP°P·Pē PSP°
 PrPsP±ĆŦ PIPiCṪPsPrPsPIP¶ 2 PrPSC-PI P· PiPsPrP°P»CHC€PēPj PiC-PrPIPēC%PμPSPSCŹPj
 PrPs 2,5 PjPi (P·P°CŦC,PsĆŦPsPICŦPIP°C,Pē CṪP°PjC-PiCṪPēP» ĆŦ PIC-PrPiPsPIC-PrPSPsPjĆŦ
 PrPsP·ĆŦPIP°PSPSC-) C,P° 5 PjPi 2 CṪP°P·Pē PSP° PrPsP±ĆŦ. PŦPeC%Ps PrPsP·ĆŦ PSPμ
 PjPsP¶PSP° PiC-PrPIPēC%PēC,Pē PrPs 2,5 PjPi (P·P°CŦC,PsĆŦPsPICŦPIP°C,Pē CṪP°PjC-PiCṪPēP»
 ĆŦ PIC-PrPiPsPIC-PrPSPsPjĆŦ PrPsP·ĆŦPIP°PSPSC-) 2 CṪP°P·Pē PSP° PrPsP±ĆŦ,
 P»C-PeĆŦPIP°PSPSCŹ ĆŦP»C-Pr PIC-PrPjC-PSPēC,Pē.

PyPëC, CĤCřPIP°PSPSCĬ PrPsP·Pë C, P° PiC-PrC, CĤPëPjCřCĤC†P° PrPsP·P°. PJ
PiPsPrP°P»CĤC€PsPjCř PrPsP±PsPICř PrPsP·Cř PiC-PrPIPëC‰CřCĤC, CĤ C€P»CĬC...PsPj
C—C— PiPsPrPIPsC”PSPSCĬ P· C-PSC, PμCĤPIP°P»PsPj Cř 1–3 PrPSC- PrPs
PrPsCřCĬPiPSPμPSPSCĬ C†C-P»CĤPsPIPsC— PiC-PrC, CĤPëPjCřCĤC†PsC— PrPsP·Pë 5 PjPi 2
CĤP°P·Pë PSP° PrPsP±Cř.

$\text{P}_{\text{L}}\text{PsP} \gg \text{P}\ddot{\text{e}} \text{ C}^+ \text{ P}_{\text{M}} \text{ PjPsP} \ll \text{P} \gg \text{P}\ddot{\text{e}} \text{PIPs}, \text{PiC}-\text{PrC}, \text{CH}_2\text{P}\ddot{\text{e}}\text{PjCrCHC} \pm \text{Cr}^- \text{ PrPsP} \pm \text{PsPICr}^- \text{ PrPsP} \cdot \text{Cr}^-$
 $\text{CH}_2\text{PsP} \cdot \text{PiPsPrC} - \text{P} \gg \text{ClCHC}, \text{CH} \text{ PSP}^\circ \quad 2 \text{ PiCH}_2\text{P}\ddot{\text{e}}\text{PN}_2\text{PsPjP}\ddot{\text{e}}.$

PiPeC%Ps PrPsP·Cr PSPµ PjPsP¶PSP° PiC-PrPIPeC%PeC,Pë PrPs 2,5 PjPi
(P·P·CfC,PsClfPsPICrfPIP°C,Pë C¶P°PjC-PiC¶PëP» Cr PIC-PrPiPsPIC-PrPSPsPjCr
PrPsP·CrfPIP°PSPSC-) 2 C¶P°P·Pë PSP° PrPsP±Cr, P»C-PeCrfPIP°PSPSC¶ C¶P»C-Pr
PIC-PrPjC-PSPëC,Pë. P"PsClfPIC-PrCr P»C-PeCrfPIP°PSPSC¶ PiP°C†C-C"PSC,C-PI C-P·
C,C¶P¶PePsC¶ (IV C,,CrPSPeC†C-PsPSP°P»CHbPSPsPiPs PeP»P°CfCr P·P°
PeP»P°CfPëC,,C-PeP°C†C-C"CH PkCHbCH-P™ PsC¶PeClfCHbPePsC—
PeP°C¶PrC-PsP»PsPiC-C†PSPSC— P°CfPsC†C-P°C†C-C— (NYHA)) C¶PµC¶C†PµPIPsC¶
PSPµPrPsClfC,P°C,PSC-CfC,C¶ PsPrC¶P°P·Cr PiC-C¶P»C¶ C-PSC,,P°C¶PeC,Cr
PjC-PsPeP°C¶PrP° PIC¶Pµ C%Pµ PSPµPrPsClfC,P°C,PSCHbPs. PiPeC%Ps PIC¶Pµ P¶ C,P°PePë
PiC¶PëPµPSC¶C,Ps C¶C-C¶PµPSPSC¶ PiC¶Ps P»C-PeCrfPIP°PSPSC¶B C,P°PePëC...B
PiP°C†C-C"PSC,C-PIB C†PëPjB PiC¶PµPiP°C¶P°C,PsPj, C¶PµPePsPjPµPSPrCrC"C,CHbC¶C¶
C¶PsP·PiPsC†PëPSP°C,Pë C,PµC¶P°PiC-C¶ P· PrPsP·Pë 1,25 PjPi (P·P°CfC,PsClfPsPICrfPIP°C,Pë

$$P_{\text{U}}P^{\circ}C^{\dagger}C-C''PSC,P\ddot{e}P\gg C-C,PSCHPsPiPsPIC-PeC\acute{z}.P_{\text{U}}PsC\ddagger P^{\circ}C,P_ePsPIP^{\circ}PrPsP\cdot P^{\circ} \\ P_iPsPIP\ddot{e}PSPSP^{\circ}P\pm CrC,P\ddot{e}PSP\ddot{e}P\lceil C\ddagger PsCH,P^{\circ}P_iPsPrP^{\circ}P\gg CHC\epsilon P_{\text{U}} \\ C,P\ddot{e}C,CHCrPIP^{\circ}PSPSC\lceil PrPsP\cdot P\ddot{e}C\acute{I}P\gg C-PrP\cdot PrC-PN_{\text{C}}C\acute{I}PSC\ddot{e}PIP^{\circ}C,P\ddot{e}P\pm C-P\gg CHC\epsilon \\ P_iPsC\acute{I}C,CrP_iPsPIPsP\cdot PsPiP\gg C\lceil PrCrPSP^{\circ}PIP\ddot{e}C\%CrPN_{\text{C}}P_iPsPIC-CHPSC-C\acute{I}C,CH$$

PIPëPSPëPePSPµPSPSCΠ PSPµP±P°P¶P°PSPëC... PµC,,PµPeC,C-PI, PsCÍPsP±P»PëPIPs Cr
PrCrP¶Pµ CÍC,P°CḡPëC... C,P° PSPµPjC-C±PSPëC... PìP°C†C-C"°PSC,C-PI. Pj C,P°PePëC...
PIPëPìP°PrPeP°C... CÍP»C-Pr PìCḡPëP·PSP°C±P°C,Pë PSPëP¶C±Cr PìPsC±P°C,PePsPICr
PrPsP·Cr – 1,25 PjPi CḡP°PjC-PìCḡPëP»Cr (P·P°CÍC,PsCÍPsPICrPIP°C,Pë
CḡP°PjC-PìCḡPëP» Cr PIC-PrPìPsPIC-PrPSPsPjCr PrPsP·CrPIP°PSPSC-).

PŷP°PePsP¶ PrPëPIC-C,CHCÍCΠ PSP°PIPµPrPµPSCr PIPëC%Pµ C-PSC,,PsCḡPjP°C†C-Cḡ
C%PsPrPs PrPsP·CrPIP°PSPSCΠ PìCḡPµPìP°CḡP°C,Cr PrP»CΠ PìP°C†C-C"°PSC,C-PI, CΠPeC-
PsC,CḡPëPjCrCḡC,CH PrC-CrCḡPµC,PëPePë.

P"°C-C,Pë. PµCḡPµPìP°CḡP°C, P P°PjP°Pi B PSPµ CḡPµPePsPjPµPSPPrCrC"°C,CHCÍCΠ
P·P°CÍC,PsCÍPsPICrPIP°C,Pë PrC-C,CΠPj (PIC-PePsPj PrPs 18 CḡPsPeC-PI), PsCÍPeC-P»CHPePë
PrP°PSPëC... C%PsPrPs PµC,,PµPeC,PëPIPSsCÍC,C- C,P° P±PµP·PìPµPePë
P·P°CÍC,PsCÍCrPIP°PSPSCΠ C†CHPsPiPs PìCḡPµPìP°CḡP°C,Cr PrP»CΠ C,P°PePëC...
PìP°C†C-C"°PSC,C-PI PSPµPrPsCÍC,P°C,PSCHPs.

PµPµCḡPµPrPsP·C±PIP°PSPSCΠ.

PŷPëPjPiC,PsPjP°PjPë, PìPsPIBḡ™ CΠP·P°PSPëPjPë P· PìPµCḡPµPrPsP·CrPIP°PSPSCΠPj
C-PSPiC-P±C-C,PsCḡC-PI PḡPµPα, PjPsP¶CÍC,CH P±CrC,Pë PSP°PrPjC-CḡPSP°
PìPµCḡPëC,,PµCḡPëC±PSP° PIP°P·PsPrPëP»P°C,P°C†C-CΠ (P· PIPëCḡP°P¶PµPSPsCḡ
P°CḡC,PµCḡC-P°P»CHPSPsCḡ PiC-PìPsC,PµPSP·C-C"°Cḡ, CèPsPePsPj),
P±CḡP°PrPëPeP°CḡPrC-CΠ, PìPsCḡCÍCèPµPSPSCΠ PµP»PµPeC,CḡPsP»C-C,PSPsPiPs
P±P°P»P°PSCÍCr C,P° PSPëCḡPePsPIP° PSPµPrPsCÍC,P°C,PSC-CÍC,CH. P—P° CÍC,P°PSPsPj
PìP°C†C-C"°PSC,P° CÍP»C-Pr CḡPµC,PµP»CHPSPs CÍPìPsCÍC,PµCḡC-PìP°C,Pë C,P°
PìCḡPsPiPsPrPëC,Pë CÍPëPjPiC,PsPjP°C,PëC±PSCr C,P° PìC-PrC,CḡPëPjCrCḡC±Cr
C,PµCḡP°PiC-Cḡ. P"°Ps P·P°PìCḡPsPiPsPSPsPIP°PSPëC... P»C-PeCrPIP°P»CHPSPëC...
P·P°C...PsPrC-PI PSP°P»PµP¶P°C,CH PìPµCḡPIPëPSPSP° PrPµC,PsPeCÍPëPeP°C†C-CΠ
(PìCḡPsPjPëPIP°PSPSCΠ CèP»CrPSPeP°, PIPiPµPrPµPSPSCΠ P°PrCÍPsCḡP±PµPSC,C-PI), P°
C,P°PePsP¶ P·P°C...PsPrPë, CÍPìCḡCΠPjPsPIP°PSC- PSP° PIC-PrPSPsPIP°PµPSPSCΠ
CÍC,P°P±C-P»CHPSPsC— PìPµPjPsPrPëPSP°PjC-PePë, PI C,PsPjCr C±PëCÍP»C-
PIPIPµPrPµPSPSCΠ P°PìPsPSC-CÍC,C-PI P°P»CHC,,P°-1 P°PrCḡPµPSPsCḡPµC†PµPiC,PsCḡC-PI
P°P±Ps P°PSPiC-PsC,PµPSP·PëPSCr P†P† (P°PSPiC-PsC,PµPSP·PëPSP°PjC-PrCr).
P P°PjC-PìCḡPëP»P°C,, P°PeC,PëPIPSpëPµ PjPµC,P°P±PsP»C-C, CḡP°PjC-PìCḡPëP»Cr,
PìPsPiP°PSPs PIPëPiPsPrPëC,CHCÍCΠ C-P· CÍPëCÍC,PµPjPSPsPiPs PeCḡPsPiPsC,PsPeCr
CèP»CΠC...PsPj PìPµPjPsPrC-P°P»C-P·Cr.

PµPsP±C-C±PSC- CḡPµP°PeC†C-C—.

PµCḡPsC,,C-P»CH P±PµP·PìPµPePë PìCḡPµPìP°CḡP°C,Cr P P°PjP°Pi PjC-CÍC,PëC,CH
PrP°PSC- PìCḡPs PìPsCÍC,C-PM°PSPëPµ PeP°CèPµP»CH C,P° CḡPµP°PeC†C-C—,
CÍPìCḡPëC±PëPSPµPSC- P°CḡC,PµCḡC-P°P»CHPSPsCḡB PiC-PìPsC,PµPSP·C-C"°Cḡ.
P"°Ps CÍPµCḡPµP°PsP·PSPëC... PìPsP±C-C±PSPëC... CḡPµP°PeC†C-PM° PSP°P»PµP¶P°C,CH
P°PSPiC-PsPSPµPICḡPsC,PëC±PSPëPµ PSP°P±CḡCΠPe, PiC-PìPµCḡPeP°P»C-C"°PjC-CΠ,
PìPsCḡCrCèPµPSPSCΠ C,,CrPSPeC†C-C— PìPµC±C-PSPePë P°P±Ps PSPëCḡPsPe,

$P\bar{S}P^{\circ}C\bar{I}^{\circ}C,PsC,P^{\circ}PI\bar{P}\bar{P}SP\bar{P}ePePSP_{\mu}PSPSC\bar{I}\bar{I}PiPsP\pm C-C\bar{P}SP\bar{P}eC\dots C\bar{H}P_{\mu}P^{\circ}PeC\bar{I}^{\circ}C-PN_{\bar{e}}$
 $PeP\rangle P^{\circ}C\bar{I}^{\circ}P\bar{e}C_{,,}C-PeCr^{\circ}C^{\circ}C,CH\bar{C}\bar{I}^{\circ}C\bar{I}C,P^{\circ}PeP\bar{e}PjC\bar{P}\bar{P}ePSPsPj:PrCrP\bar{I}P_{\mu}C\bar{P}^{\circ}C\bar{I}^{\circ}C,Ps(\geq 1/10);$
 $C\bar{P}^{\circ}C\bar{I}^{\circ}C,Ps(PIC-Pr\geq 1/100PrPs<1/10);PSP_{\mu}C\bar{P}^{\circ}C\bar{I}^{\circ}C,Ps(PIC-Pr\geq 1/1000PrPs<1/100);$
 $C\bar{H}C-PrPePs(PIC-Pr\geq 1/1000PrPs<1/1000);PrCrP\bar{I}P_{\mu}C\bar{H}C-PrPePs(<1/1000);$
 $C\bar{P}^{\circ}C\bar{I}^{\circ}C,PsC,P^{\circ}PSP_{\mu}PIC-PrPsPjP^{\circ}(PSP_{\mu}PjPsP\bar{I}PSP^{\circ}C\bar{H}PsP\cdot C\bar{H}P^{\circ}C\dots CrPIP^{\circ}C,P\bar{e}P\cdot P^{\circ}$
 $PSP^{\circ}C\bar{I}\bar{I}PIPSP\bar{e}PjP\bar{e}PrP^{\circ}PSP\bar{e}PjP\bar{e}).PjPePsP\bar{I}PSC-PN_{\bar{e}}PiC\bar{H}CrP\bar{I}C-PiPsP\pm C-C\bar{P}PSC-C\bar{I}\bar{I}PIP\bar{e}C\%_oP^{\circ}$
 $PiC\bar{H}P_{\mu}PrC\bar{I}^{\circ}C,P^{\circ}PI\bar{P}\rangle P_{\mu}PSC-CrPiPsC\bar{H}C\bar{I}\bar{I}PrPeCrP\cdot PjP_{\mu}PSC\bar{e}P_{\mu}PSPSC\bar{I}\bar{I}C\bar{I}^{\circ}C,CrPiP_{\mu}PSC\bar{I}\bar{I}C-C\dots$
 $C\bar{I}^{\circ}P_{\mu}C\bar{H}PN_{\bar{e}}PsP\cdot PSPsC\bar{I}^{\circ}C,C-.$

[illegible]

PiPsPiCrP»CjCtC-C—,B CjC-PrPePs - Cr PrPsCjPsCfP»PeC... PiP°CtC-C”PSC,C-PI.

PjCjPjPsCj C- PeCjPsPiPePiBj™ CjPSPeP°: PSPµC±P°CfC,Ps - PI
PiPµPrC-P°C,CjPeC±PSC-PNᵢ PiPsPiCrP»CjCtC-C—, B CjC-PrPePs - Cr PrPsCjPsCfP»PeC...
PiP°CtC-C”PSC,C-PI.

P—P°PiP°P»CHbPSPePNᵢ PiCjPsC,,C-P»CH P±PµP·PiPµPePe CjP°PjC-PiCjPeP»Cr Cr PrC-C,PµPNᵢ
C- PrPsCjPsCfP»PeC... P·PSP°C±CrC%Ps PSPµ PIC-PrCjC-P·PSCjC”C,CHCfCj.

PµPsPIC-PrPsPjP»PµPSPSCj PiCjPs PiC-PrPsP·CjCjPiP°PSC- PiPsP±C-C±PSC-
CjPµP°PeCtC-C—.

PµPsPIC-PrPsPjP»PµPSPSCj PiCjPs PiC-PrPsP·CjCjPiP°PSC- PiPsP±C-C±PSC-
CjPµP°PeCtC-C— Cr PiPµCjC-PsPr PiC-CfP»Cj CjPµC”CfC,CjP°CtC-C— PiCjPµPiP°CjP°C,Cr
C” PiP°P¶P»PePiPePj P·P°C...PsPrPsPj. P’PsPSPe PrP°CjC,CH P·PjPsPiCr
PiCjPsPrPsPiP¶CrPiP°C,Pe PjPsPSC-C,PsCjPePSPi CfPiC-PIPIC-PrPSPsCεPµPSPSCj
PePsCjPeCfC,CH/CjPeP·PePe PiCjPe P·P°CfC,PsCfCrPiP°PSPSC- PrP°PSPsPiPs
P»C-PeP°CjCfCHPePsPiPs P·P°CfPsP±Cr.

PµPrPeC±PSPePj PiCjP°CtC-PIPSPePeP°Pj PSPµPsP±C...C-PrPSPs PiPsPIC-PrPsPjP»CjC,Pe
PiCjPs PiPePiP°PrPePe P±CrPrCH-CjPePeC... PiPsP±C-C±PSPeC... CjPµP°PeCtC-PNᵢ P·P°
PrPsPiPsPjPsPiPsCj CfPeCfC,PµPjPe C,,P°CjPjP°PePsPSP°PiP»CjPrCr PjPeCjP°C—PSPe.

PjPµCjPjC-PS PiCjPePrP°C,PSPsCfC,C-.

2 CjPsPePe.

PjPjPsPiPe P·P±PµCjC-PiP°PSPSCj.

P—P±PµCjC-PiP°C,Pe PI PsCjPePiC-PSP°P»CHbPSC-PNᵢ CrPiP°PePsPICtC- PiCjPe
C,PµPjPiPµCjP°C,CrCjC- PSPµ PiPeC%Pµ 25 °Pj. P—P±PµCjC-PiP°C,Pe Cr
PSPµPrPsCfC,CrPiPSPsPjCr PrP»Cj PrC-C,PµPNᵢ PjC-CfCtC-.

PjPiP°PePsPiPeP°.

PµPs 10 C,P°P±P»PµC,PsPe Cr P±P»C-CfC,PµCjC-, PiPs 3 P±P»C-CfC,PµCjPe PI
PeP°CjC,PsPSPSC-PNᵢ PiP°C±CtC-.

PµP°C,PµPiPsCjC-Cj PIC-PrPiCrCfPeCr.

P—P° CjPµCtPµPiC,PsPj.

P’PeCjPsP±PSPePePe.

1) P_hPeC,P°PIC-Ć P>C,Pr.

2) P'P°P»PeP°PSC,,P°C_hPjP° б_h" P"ĆrPİPSPëC†C_h P_hP".

**P_hC-ĆC†P_hP·PSP°C...PsPrP¶P_hPSPSC_h PIPëC_hPsP±PSPëPeP° C,P° P°PrC_hP_hĆP°
PjC-ĆC†C_h PİC_hPsPIP°PrP¶P_hPSPSC_h PN₂PsPiPs PrC-C_hP»CH_hPSPsĆC,C-.**

1) P'P>P' 016, P_hC_hPsPjPëC_hP»PsPIP° P·PsPSP° P'C_hP»P_hP±P_hP»CH_h, P—P_hPN₂C,ĆPS,
ZTN3000, P_hP°P»CH_hC,P°.

2) PIC_hP». PŸP°PjPsPePsPIC_hCH_hPeP_h PËPsĆP_h 3, P"ĆrPİPSPëC†C_h, 2600, P'PsP»PiP°C_hC-C_h.