

Introduction:

(GWTG-S) promotes the latest evidence-based stroke care. The product meets the needs of stroke centers of
^{{ {k, k{^-} cp gk@2sAg^2sC~l} 62 p^gs{s^2^2k^-} C a a C@23~s2sk^-} 2C k~2k@^~i } C~s2C@ i^2^ C~ a^2sk~2^- 1s2r^-2@Czk @k{^2ki is^q~C^-k^-l} s~g{^3 is~q^l s^-grk } sg^-2@Czk^l
rk } C@0r^qsg^-2@Czk^l 2@^~sk~2 s^-grk } sg^22^gz^l^~i^-3 f^@^gr~Csi rk } C@0r^qk^l. {k } k~2^-2@^gzk i s~g{^3 i k r} » a k@^g^3^2k } ^~^qk } k~2^l 2r@C } fC{>^s^-l
s~2k@, k~2sC~^f{ a@Cgk i 3@k^-l^-kgC~i^@» a@k, k~2sC~^-2@^2kqsk^-l is^-gr^@qk^-l^~i pC{{C^1^3 a g^@k^l ! i i s2sC~^f{>^l 2k^ }^-g^~ C a2s } s%k 2rks@^-3^f{s2» s } a@C, k } k~2
^g2s, s2sk^-32s{s%~q 2rk g@k^2s, k @k a C@2s~q g^a a f{s2sk^-} cp C^3@~k^1 k^-2 a{^2pC@ } ^l N3 a k@ Q^-k@ ^ggC^3~2^-^@k^, ^s{^f{k pC@ rk^f2r^-} »^2k } ^-3^f{s2»
^-2^pp 2C } C~s2C@ 2rk a k@pC@ } ^~gk cp ^f{ ^pA{s^2ki^-} s2k^-^f{C^1s~q pC@ rsqr i{k, k{^-3^f{s2» s~s2s^2s, k^-^g@C^-2rk^-} »^2k } ^l
Prk ! } k@sg^~5k^@2 !^-Cgs^2sC~^-3 a a C@2^-2rk 4k^2 Ws2r Prk 43sik{s~k^-a{^2pC@ }^-1s2r^z~C^1{k i qk^f{k^2k^ } cp^-3^f{s2» s } a@C, k } k~2gC~^-3{2^~2^-l} !~^i i k i
, ^f{3k^2C C^3@g^3^-2C } k@^-s^-C~qC s~q, s@23^f{k i 3g^2sC~pk^23@s~q q^3sik{s~k i i@s, k~g^@k^l g^3@0k~2 r C^2 2C a sg^-l } C i k{ i^-r^@s~q^l k^o a k@2 gC~^-3{2^~2 a^~k{^-^~i } C@k@

Stroke Achievement Measures:

ACUTE

- Jk@gk~2 Cp a^2sk~2^- 1s2r s^-grk } sg^-2@Czk C@ 2@^~sk~2 s^-grk } sg^22^gz eP6! e^1 r C @kgks, k^~2s2r@C } fC2sg 2rk@^a » f » 2rk k~i Cp
r C^-a s2^f{ i^ » 2^1 C^l } ! 5! NPM E
- Jk@gk~2 Cp ^g^3^2k s^-grk } sg^-2@Czk a^2sk~2^- 1 r C @@s, k^2 2rk r C^-a s2^f{ 1s2rs~ E E E
{ s~3^2k^- e E l i r C^3@^e Cp 2s } k{^2 z~C^1~ 1 k{f{^~i pC@ 1 r C } 6V 2r@C } fC{>2sg 1^~s~s2s^2k i^2 2rs^-r C^-a s2^f{ 1s2rs~ E E E } s~3^2k^- e l i r C^3@^e Cp 2s } k{^2 z~C^1~
1 k{f{^l } ! 5! NPM I
- Jk@gk~2 Cp a^2sk~2^- 1s2r s^-grk } sg^-2@Czk^l rk } C@0r^qsg^-2@Czk C@^-2@Czk ~C^2 2rk@^1 s^-k^-a kgs Aki 1 r C
@kgks, k VP. a@C a r » f^o s^-2rk i^ »
Cp C@ 2rk i^ » ^p2k@ r C^-a s2^f{ ^i } s^-sC~l } ! 5! NPM I

AT OR BY DISCHARGE

- Jk@gk~2 Cp a^2sk~2^- 1s2r ^~s^-grk } sg^-2@Czk C@ P6! 1s2r ! 3 is^-gr^@qki C~^~2sgC^q^3{^2sC~
2rk@^a »^l } ! 5! NPM E
- Jk@gk~2 Cp a^2sk~2^- 1s2r ^~s^-grk } sg^-2@Czk C@ P6! a@k^-g@fki ^~2s2r@C } fC2sg 2rk@^a » ^2 is^-gr^@qk^l } ! 5! NPM E
- Jk@gk~2^2qk Cp s^-grk } sg^-2@Czk ^~i P6! a^2sk~2^- 1 r C @k a@k^-g@fki rsqr i s~2k~^-s2»^-2^2s~2rk@^a » ^2 is^-gr^@qk BM l q C i i » k^@^-
Cp ^qk^l^@k a@k^-g@fki ^2{k^2 } C i k@^2k i s~2k~^-s2»^-2^2s~2rk@^a » ^2 is^-gr^@qk^l } ! 5! NPM I
- Jk@gk~2 Cp a^2sk~2^- 1s2r s^-grk } sg C@ rk } C@0r^qsg^-2@Czk^l C@ P6! 1s2r^rs^-2C@» Cp^- } Czs~q gq^@k^2k^-l 1 r C ^@k^l C@ 1 r C^-k g^@kqs, k@^-^@k^l
qs, k~^- } Czs~q gk^-^2sC~^i, sgk C@ gC^3~k{s~q i^3@s~q r C^-a s2^f{^-2^ »^l } ! 5! NPM I

COMPOSITE AND DEFECT-FREE MEASURES

- Prk gC } a C^-s2k^-3^f{s2» Cp g^@k } k^~3@k s~isg^2k^-r C^1 1 k{f{2rk rk^f2r g^@k^-} »^2k } i Ck^-2C a@C, sik^a a a C@a@s^2k^l k, sik~gk i f^~ki
s~2k@, k~2sC~^-pC@ k^gr a^2sk~2^l } ! 5! NPM I I
- , kpg2ip@kk } k^~3@k q^a^3qk^-r C^1 1 k{f{ » C^3@ r C^-a s2^f{ isi s~ a@C, sis~q ^f{2rk^a a a C@a@s^2k s~2k@, k~2sC~^-2C k, k@» a^2sk~2^l } ! 5! NPM I E

Stroke Quality Measures:

ACUTE

- Jk@gk~2 Cp^-2@Czk a^2sk~2^- 1 r C^3~i k@qC^-g@kk~s~q pC@ i » a r^q s^1 s2r^~k, sik~gk i f^~ki fki^-sik^2k^-2s~q a@C2cgC{^a a a C, ki f » 2rk
r C^-a s2^f{ fkpC@k fks~q qs, k~^~ » pC@ i l A^3si^-C@ } kisg^2sC~f } C^32r^l } ! 5! NPM D
- Jk@gk~2 Cp s^-grk } sg^-2@Czk ^~i^-2@Czk ~C^2 2rk@^1 s^-k^-a kgs Aki a^2sk~2^- 1s2r^~gC@k @k a C@2ki
pC@ @65 N2@Czk Ng^f{k e s~s2s^f{d } ! 5! NPM E E
- Jk@gk~2 Cp ^g^3^2k s^-grk } sg^-2@Czk a^2sk~2^- @kgks, s~q s~2@^, k~C^3~2s^-3k^a{^~ } s~Cqk~^g2s, ^2C@
e2r@C } fC{>2sg^2rk@^a » i^3@s~q 2rk r C^-a s2^f{^-2^ » 1 r C r^, k^a s } k p@C } r C^-a s2^f{^@s, ^f{2C s~s2s^2sC~ Cp 2r@C } fC{>2sg 2rk@^a » ^i } s~s^-2@^2sC~e i C C@i2C i~k ki {k

Stroke Quality Measures (continued)

AT OR BY DISCHARGE

- Jk@gk~2 ¢ps-grk } sg ~2¢czk ¢@P6! a^2sk~2~ 1s2r ^ i ¢g3 } k~2ki {s2si a@¢À{kù !5!NPMÑ
- Jk@gk~2 ¢p a^2sk~2~ 1s2r ~2¢czk 1 r ¢ 1k@k ^~k~ki p¢@ ¢kr^fs{2^2s¢~ ~k@,sgk~ù !5!NPMÉE
- Jk@gk~2 ¢p a^2sk~2~ 1s2r ~2¢czk ¢@P6! ¢@2rks@ g^@kqs, k@~ 1 r ¢ 1k@k qs, k~ ki 3g^2s¢~ ^~iæ¢@ ki 3g^2s¢~^ { } ^2k@^ i 3@~q 2rk r ¢ ~as2^ { ~2^»
^ i i@k~s~q ^ { ¢p2rk p¢ { ¢ 1s~qù a k@~ ¢~^ { @s~z p^g2 ¢@~ p¢@ ~2¢czkù 1 ^@~s~q ~sq~ p¢@ ~2¢czkù ^g2s, ^2s¢~ ¢p k } k@qk~g» } kisg^ { ~»~2k } ù~kki p¢@ p¢ { ¢ 1 3a ^p2k@
is~gr^@qk ^~i } kisg^2s¢~ ~a@k~g@sfkiù !5!NPMÉE

Stroke Reporting Measures:

ACUEF0F0NnUaQeV6RNarNn@LVoJNnYADAV@0nVAc@

- [illegible]

AT OR BY DISCHARGE

- M²k Cp a⁰k⁻g⁰s²ç~ Cp isppk^{k-2}2»a^{k-}çp[^]-2s^r»a^k2k⁻s, k } kisg²ç~[^]2[^] is⁻gr[^]qk p⁰ç~grk } sg⁻2⁰çzk ç⁰P6! a²ks⁻²! 5!NPMĖ
- J²sk⁻² q⁰ç³aki f»[^]~2s²rç⁰ } fç²sg } kisg²ç~ a⁰k⁻g⁰sfki[^] is⁻gr[^]qkl! 5!NPMĖ
- Jk⁰gk⁻² Cp a²sk⁻²~¹ rç r[^], k is[^]fk²k⁻ } k{{{s²~ ç⁰0⁰k²z^s-q is[^]fk²sg } kisg²ç~ a⁰ç⁰2ç[^]i } s⁻sç~¹ rç 0⁰k is⁻gr[^]qki ç~ is[^]fk²sg } kisg²ç~! 5!NPMĖĖ
- Jk⁰gk⁻² Cp is[^]fk²sg a²sk⁻² ç⁰~k¹{»î is[^]q⁻ç⁻ki is[^]fk²sg⁻0kgks⁻q is[^]fk²k⁻²0k[^]2 } k⁻²s⁻²rk pç⁰ } Cp q»{gk } sg gç~2ç⁰{èisk² ç⁰ } kisg²ç~é ç⁰pç{{{ç¹3 a[^]a a ç^s-2 } k⁻²pç⁰ is[^]fk²k⁻ }[^]~[^]qk } k⁻²grki³{ki[^] is⁻gr[^]qkl! 5!NPMĖĖ
- Jk⁰gk⁻² Cp is[^]fk²sg a²ks⁻² ç⁰~k¹{»î is[^]q⁻ç⁻ki is[^]fk²sg⁻0kgks⁻q is[^]fk²k⁻²0k[^]2 } k⁻²s⁻²rk pç⁰ } Cp q»{gk } sg gç~2ç⁰{èisk² ç⁰ } kisg²ç~é ç⁰pç{{{ç¹3 a[^]a a ç^s-2 } k⁻²pç⁰ is[^]fk²k⁻ }[^]~[^]qk } k⁻²grki³{ki[^] is⁻gr[^]qkl! 5!NPMĖĖĖ
- Jk⁰gk⁻²qk Cp a²ks⁻²~¹s²r⁻2⁰çzk ç⁰P6! is⁻gr[^]qki p⁰ç } »ç³0 p[^]gs²»¹ rç r[^]i i ç³ } k⁻²2sç~ çp[^]~²~[^]i[^]0i³ki rk[^]f²r⁰k[^]{[^]2ki⁻çgs[^]{~kki⁻pç⁰ } ç⁰~[^]k⁻ } k⁻²gç } a{k²ki i³ç^s-q[^]i } s⁻sç~! 5!NPMĖĖĖ
- J²sk⁻² q⁰ç³aki f» ? ç is[^]Åki M[^]-zs~ Ng[^]{k[^] is⁻gr[^]qkl! 5!NPMĖĖ
- J²sk⁻²~¹ rç¹ rç¹ k⁰k q^s, k⁻ } çzs~qgk⁻2sç~[^]i, sgk ç⁰gç³~⁻k^s-q i³ç^s-q²rk rç⁻2s²ç[^]{²» q⁰ç³aki f»⁻ } çzs~qgk⁻2sç~²rk⁰a[^]sk⁻ a⁰ç, sikⁱ! 5!NPMĖĖ
- Jk⁰gk⁻²çp^sgrk } sg⁻2⁰çzk ç⁰P6! a²sk⁻²~¹ rç 0⁰k is⁻gr[^]qki ç~⁻²2s~ } kisg²ç~s⁻s²ç[^]{ a²sk⁻² a ç³{[^]2sç~! 5!NPMĖĖ
- Jk⁰gk⁻²çp^sgrk } sg⁻2⁰çzk ç⁰P6! a²sk⁻²~¹s²r fçⁱ» }[^]~[^]s~i k⁰è)?éĎĖí zqæ } Ê¹ rç 0⁰kgks, k⁰kgç } } k~i²çç~[^] is⁻gr[^]qk pç⁰0⁰ki³qs⁻q¹ksqr²~i[^]çç⁰s~q⁰k[^]~s⁻q⁰q²s²»! 5!NPMĖĖ

STROKE DESCRIPTIVE MEASURES

- $J^{\wedge 2} s_k - {}^{2-} q @ \mathbb{C}^3 a_k i f \gg \wedge \{ k \sim i \}^3 - z - \mathbb{C}^1 \sim a^{\wedge 2} s_k - {}^{2-} \} ! 5 ! NPM \hat{I} \hat{I}$
- $J^{\wedge 2} s_k - {}^{2-} q @ \mathbb{C}^3 a_k i f \gg \hat{A} - \wedge \{ g [s - s g \wedge \{ i s^{\wedge} q - \mathbb{C}^{\sim} @ k \{^{\wedge 2} k i \}^2 \mathbb{C}^{\sim} @ c z k \} ! 5 ! NPM \hat{I} \hat{I}$
- $, \gg^{-} a r^{\wedge} q s^{\wedge} \bar{g} @ k k - s - q @ k^{-} \{^2 \bar{2} \bar{2} \} a^{\wedge 2} s_k - {}^{2-} q @ \mathbb{C}^3 a_k i f \gg i \gg^{-} a r^{\wedge} q s^{\wedge} \bar{g} @ k k - s - q @ k^{-} \{^2 \bar{2} \bar{2} \} ! 5 ! NPM \hat{I} \hat{I}$
- $J k @ g k - {}^2 \mathbb{C} p k \} \wedge \{ k \bar{\wedge} i \}^3 - z - \mathbb{C}^1 \sim a^{\wedge 2} s_k - {}^{2-} \} ! 5 ! NPM \hat{I} \hat{I}$
- $J^{\wedge 2} s_k - {}^{2-} q @ \mathbb{C}^3 a_k i f \gg s - s^2 s^{\wedge} \{ k^{\circ} \wedge \} \hat{A} - i s - q \bar{\wedge} ! 5 ! NPM \hat{I} \hat{I}$
- $= BN q @ \mathbb{C}^3 a_k i f \gg i s^{\wedge} q - \mathbb{C}^{\sim} \bar{\wedge} ! 5 ! NPM \hat{I} \hat{I}$
- $! r s^2 \mathbb{C} q @^{\wedge} \} \mathbb{C} p^a @ k, s \mathbb{C}^3 \{- \gg z - \mathbb{C}^1 - \} k i s g^{\wedge} \{ r s^2 \mathbb{C} @ \gg \bar{\wedge} ! 5 ! NPM \hat{I} \hat{D}$
- $J^{\wedge 2} s_k - {}^{2-} q @ \mathbb{C}^3 a_k i f \gg @^{\wedge} g k \wedge \sim i \} 5 s^{\sim} a^{\wedge} \sim s g k^2 r - s g s^2 \gg \bar{\wedge} ! 5 ! NPM \hat{I} \hat{N}$
- $! @^{\wedge 2} s \mathbb{C} g \mathbb{C} \} a^{\wedge} @ s - q^2 r k^{\wedge} g^2 s^{\wedge} \{ s - \bar{i} r \mathbb{C}^{-} a s^2 \wedge \{ \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k^2 \mathbb{C}^2 r k @ s^{-} \bar{z} i^{\wedge} i y^3 -^2 k i k^{\circ} a k g^2 k i \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k \bar{\wedge} ! @^{\wedge 2} s \mathbb{C} k -^3 \wedge \{^2 \mathbb{C} \bar{E} s^{\sim} -^2 k @ a @ k^2 k i \wedge^{-} \mathbb{C} i s p p k @ k - g k f k^2 \bar{1} k k -^2 r k r \mathbb{C}^{-} a s^2 \wedge \{ \bar{\wedge} \} \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k \wedge \sim i \}^2 r k k^{\circ} a k g^2 k i @^{\wedge 2} k \bar{\wedge} ! @^{\wedge 2} s \mathbb{C} q @ k^{\wedge 2} k @^2 r \wedge \bar{E} s - i s g^{\wedge 2} k^{-} \bar{2} r^{\wedge 2} \bar{2} r k r \mathbb{C}^{-} a s^2 \wedge \{ \bar{\wedge} \} \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k s^{-} r s q r k @^2 r \wedge \sim^2 r k k^{\circ} a k g^2 k i @^{\wedge 2} k \bar{\wedge} ! @^{\wedge 2} s \mathbb{C} \mathbb{C} p \{ k^{-} \bar{2} r \wedge \bar{E} s - i s g^{\wedge 2} k^{-} \bar{2} r^{\wedge 2} \bar{2} r k r \mathbb{C}^{-} a s^2 \wedge \{ \bar{\wedge} \} \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k s^{-} \{ \mathbb{C}^1 k @^2 r \wedge \sim^2 r k k^{\circ} a k g^2 k i @^{\wedge 2} k \bar{\wedge} ! 5 ! NPM \hat{I} \hat{E}$
- $! @^{\wedge 2} s \mathbb{C} g \mathbb{C} \} a^{\wedge} @ s - q^2 r k^{\wedge} g^2 s^{\wedge} \{ s - \bar{i} r \mathbb{C}^{-} a s^2 \wedge \{ \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k^2 \mathbb{C}^2 r k @ s^{-} \bar{z} i^{\wedge} i y^3 -^2 k i k^{\circ} a k g^2 k i \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k \bar{\wedge} ! @^{\wedge 2} s \mathbb{C} k -^3 \wedge \{^2 \mathbb{C} \bar{E} s^{\sim} -^2 k @ a @ k^2 k i \wedge^{-} \mathbb{C} i s p p k @ k - g k f k^2 \bar{1} k k -^2 r k r \mathbb{C}^{-} a s^2 \wedge \{ \bar{\wedge} \} \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k \wedge \sim i \}^2 r k k^{\circ} a k g^2 k i @^{\wedge 2} k \bar{\wedge} ! @^{\wedge 2} s \mathbb{C} q @ k^{\wedge 2} k @^2 r \wedge \bar{E} s - i s g^{\wedge 2} k^{-} \bar{2} r^{\wedge 2} \bar{2} r k r \mathbb{C}^{-} a s^2 \wedge \{ \bar{\wedge} \} \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k s^{-} r s q r k @^2 r \wedge \sim^2 r k k^{\circ} a k g^2 k i @^{\wedge 2} k \bar{\wedge} ! @^{\wedge 2} s \mathbb{C} \mathbb{C} p \{ k^{-} \bar{2} r \wedge \bar{E} s - i s g^{\wedge 2} k^{-} \bar{2} r^{\wedge 2} \bar{2} r k r \mathbb{C}^{-} a s^2 \wedge \{ \bar{\wedge} \} \} \mathbb{C} @^2 \wedge \{ s^2 \gg @^{\wedge 2} k s^{-} \{ \mathbb{C}^1 k @^2 r \wedge \sim^2 r k k^{\circ} a k g^2 k i @^{\wedge 2} k \bar{\wedge} ! 5 ! NPM \hat{I} \hat{E}$
- $P @ ! a^{\wedge 2} s_k - {}^{2-} a @ \mathbb{C}^3 a_k i f \gg \bar{\wedge} \gg \} a^2 \mathbb{C} \} i^3 @^{\wedge 2} s \mathbb{C} \bar{\wedge} \bar{\wedge} ! 5 ! NPM \hat{I} \hat{E}$

INTRACEREBRAL HEMORRHAGE (ICH) MEASURES

- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}@k^{\wedge}i\}\}^{22ki\ 2\ \phi^{\wedge}\sim s\sim 2k\sim s,k\ g^{\wedge}@k\ 3\sim s^2\ \phi@i\ k\ i\ s\ g^{\wedge}2k\ i\ }^{-2}\phi z k\ 3\sim s^2\ 1s^2r\ a\ r\ }^{-s\ g^{\wedge}\sim\ \wedge\sim i\ \sim 3@^{\sim}s\sim q\sim k^3\ \phi^{\sim}g\ k\sim g\ k\ ^{\wedge}g^{32}k\ g^{\wedge}@k\ k^{o^{\wedge}a}k^{o^2s^{\sim}k\dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{I}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ \{spk\dot{?}r@k^{\wedge}2k\sim s\sim q\ 6^*5\ 1\ r\ \phi^{\wedge}@k\ 2^{\wedge}zs\sim q\ @s,\ ^{\wedge}@ \phi^{o^{\wedge}f^{\wedge}\sim \dot{u}}\ ^{\wedge}a\ s^{o^{\wedge}f^{\wedge}\sim\ \phi@i\ ^{\wedge}f\ s\ q\ s^{2@}\ ^{\wedge}\sim\ a@s\ \phi@2\ \phi^{\wedge}@s,\ ^{\wedge}\{\ \wedge\sim i\ 1\ r\ \phi^{\wedge}@k\ 2@k^{\wedge}2k\ i\ 1s^2r\ 2rk\ ^{\wedge}a\ a@a\ \phi@a@s^{\wedge}2k\ @k,\ k@^{\sim}\ ^{\wedge}\{^{\wedge}q\ k\sim 2\ 1s^2r\ s\sim \acute{N}\acute{E}\}\}^{-s\sim 32k^{\sim}\ \phi p^{\wedge}@s,\ ^{\wedge}\dot{u}}\ !5!NPM\acute{E}\acute{N}\acute{I}$
- $J^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}k\ g\ k\ s,\ k\ i\ ^{\wedge}\sim 2s\ g\ \phi^{\wedge}q^3\{\ ^{\wedge}\sim 2\ @k,\ k@^{\sim}\ ^{\wedge}\{q@ \phi^3\ a\ k\ i\ f\}\}^{\wedge}q\ k\sim 2^{\wedge}i\}\}^{-s\sim s^{\sim}2k@k\ i\dot{u}}\ !5!NPM\acute{E}\acute{N}\acute{N}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}1k@k\ ^{\sim}\sim k^{\sim}\sim k\ i\ p\ \phi@ \dot{u}\ \phi@1\ r\ \phi^{\wedge}k\ g\ k\ s,\ k\ i\dot{u}\ @k\ r^{\wedge}f\ s\{s^2^{\wedge}2s\ \phi\sim\ ^{\sim}k@,\ s\ g\ k\sim \dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{I}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}i\ \phi\sim \phi^2\ k\ g\ k\ s,\ k\ g\ \phi@2s\ g\ \phi^{\sim}2k@ \phi\ s\ i\ ^{\sim}p\ \phi@k\{k,\ ^{\wedge}2k\ i\ s\sim 2@^{\wedge}g@^{\wedge}\sim s^{\wedge}\{a@k^{\sim}\sim 3@k\ \phi@f@^{\wedge}s\sim\ k\ i\ k\}\}^{\wedge}i\ 3@s\sim q\ ^{\wedge}g^{32}k\ r\ \phi^{\sim}a\ s^2^{\wedge}\{s\dot{?}\ ^{\wedge}2s\ \phi\sim \dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{I}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ s\sim 1\ r\ \phi^{\wedge}\}\}^{\wedge}f^{\wedge}\ ^{\sim}k\{s\sim k^{\sim}k,\ k@s^2\}\}^{-g\ \phi@k\ s^{\sim}\}\}k^{\wedge}\sim 3@k\ i\ ^{\wedge}\sim i\ ^{\wedge}2\ \phi^2^{\wedge}\{^{\sim}g\ \phi@k\ @k\ g\ \phi@i\ k\ i\ ^{\sim}a\ ^{\wedge}@^2\ \phi p\ s\sim s^2s^{\wedge}\{k,\ ^{\wedge}\{3^{\wedge}2s\ \phi\sim\ \phi\sim\ ^{\wedge}@s,\ ^{\wedge}\{^{\wedge}2\ 2rk\ r\ \phi^{\sim}a\ s^2^{\wedge}\dot{u}}\}\}!5!NPM\acute{E}\acute{I}\acute{D}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}@k\ a@k^{\sim}g@s\ f\ k\ i\ ^{\wedge}\sim\ ^{\wedge}\sim 2s\ r\}\}^{\wedge}a\ k@2k\sim s,\ k\}\}k\ i\ s\ g^{\wedge}2s\ \phi\sim\ \phi@1\ r\ \phi^{\wedge}r^{\wedge},k\ ^{\wedge}i\ \phi\ g^3\}\}k\sim 2k\ i\ f\{\phi\ \phi\ i\ a@k^{\sim}\sim 3@k\ \phi p\}\}k\ i\ s\ g^{\wedge}2s\ \phi\sim\ \{k^{\sim}\sim 2r^{\wedge}\sim\acute{E}\acute{E}\acute{e}\acute{e}\acute{D}\acute{E}\}\}\}5q\ ^{\wedge}2\ 2rk\ 2s\}\}k\ \phi p\ r\ \phi^{\sim}a\ s^2^{\wedge}\{i\ s^{\sim}g\ r^{\wedge}@q\ k\dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{N}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ \wedge\sim i\ ^{\wedge}\sim 6\sim 2k@^{\sim}\sim\ ^{\wedge}2s\ \phi\sim\ ^{\wedge}\{ @\ \phi@ \}\}^{\wedge}\{s\dot{?}\ k\ i\ M^{\wedge}2s\ \phi\ \acute{e}\acute{e}\ @M\acute{e}\ \acute{C}\acute{E}\dot{u}\}\}k^{\sim}\sim 3\{2s\sim q\ p@ \phi\}\}\}^{\wedge}p@^{\wedge}@s\sim 2@k^{\wedge}2\}\}k\sim 2\ 1\ r\ \phi^{\wedge}k\ g\ k\ s,\ k\ 2rk@^{\wedge}a\}\}2\ \phi\ @k^{\wedge}\{^{\wedge}g\ k,\ s^2^{\wedge}\}\}s\sim <\ i\ k^2k\sim i\ k\sim 2\ g\{\phi^22s\sim q\ p^{\wedge}g\ \phi@^{\sim}\ 1s^2r\ s\sim \acute{N}\acute{E}\}\}^{-s\sim 32k^{\sim}\ \phi p\ .\ ,\ a@k^{\sim}k\sim 2^{\wedge}2s\ \phi\sim\ \wedge\sim i\ 1\ r\ \phi^{\wedge}\{\phi^{\sim}k\ g\ k\ s,\ k\ \acute{e}\ V,\ s^2^{\wedge}\}\}s\sim <\dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{E}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ p\ \phi@1\ r\ \phi^{\wedge}\}\}2rk@k\ s^{\sim}\ i\ \phi\ g^3\}\}k\sim 2^{\wedge}2s\ \phi\sim 2r^{\wedge}2^{\wedge}\ ^{\wedge}i\}\}^{\sim}a\ r^{\wedge}q\ s^{\wedge}\ ^{\sim}g@k\ k\sim s\sim q\ 1^{\wedge}\sim a\ k@p\ \phi@ \}\}k\ i\ 1s^2r\ s\sim \acute{E}\dot{u}\ r\ \phi^3@^{\sim}\ \phi p^{\wedge}i\}\}s^{\sim}\sim s\ \phi\sim 3^{\sim}s\sim q\ ^{\wedge}i\}\}^{\sim}a\ r^{\wedge}q\ s^{\wedge}\ ^{\sim}g@k\ k\sim s\sim q\ 2\ \phi\ \phi\{\ ^{\wedge}a\ a@a\ \phi,\ k\ i\ f\}\}2rk\ s\sim 2s^232s\ \phi\sim s\sim 1\ r\ s\ g\ r\ 2rk\ a^{\wedge}2sk\sim 2\ s^{\sim}\ @k\ g\ k\ s,\ s\sim q\ g^{\wedge}@k\dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{E}$
- $5s^{\sim}2\ \phi\ q@^{\wedge}\}\}\ \phi p^{a^{\wedge}2sk\sim 2\ @k\ g\ \phi@i\ ^{\sim}\}\}s^{\sim}\sim s\sim q\ \phi\sim k\ \phi@ \}\}\ \phi@k\ \phi p^2rk\ 2s\}\}k^{\sim}\ @k\sim 3s@k\ i\ 2\ \phi\ g^{\wedge}\{g^3\{^{\wedge}2k\ 6^*5\}\}k^{\wedge}\sim 3@k\sim \dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{E}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}1k@k\ i\ \phi\ g^3\}\}k\sim 2k\ i\ 2\ \phi\ r^{\wedge},k\ a^{\wedge}\sim k\ i\ 2rk\}\}\ \phi^{\sim}2\ @k\ g\ k\sim i\}\}^{\sim}a\ r^{\wedge}q\ s^{\wedge}\ ^{\sim}g@k\ k\sim f\ k\ p\ \phi@k\ \phi@^{\wedge}\{s\sim 2^{\wedge}z\ k\ \phi p\acute{A}^3s\ i\ ^{\sim}\dot{u}}\sim 3^2@s^2s\ \phi\sim\ \phi@ \}\}k\ i\ s\ g^{\wedge}2s\ \phi\sim\dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{E}$
- $J^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ q@ \phi^3\ a\ k\ i\ f\}\}\ @k^{\wedge}\sim\ \phi\sim p\ \phi@ \sim \phi^2^{\wedge}i\}\}\}s\sim s^{\sim}2k@s\sim q\ ^{\wedge}\sim\ ^{\wedge}\sim 2s\ g\ \phi^{\wedge}q^3\{\ ^{\wedge}\sim 2\ @k,\ k@^{\sim}\ ^{\wedge}\{^{\wedge}q\ k\sim 2\dot{u}}\}\}!5!NPM\acute{E}\acute{E}\acute{E}$
- $J^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}k\ g\ k\ s,\ k\ i\ ^{\wedge}\sim 2s\ g\ \phi^{\wedge}q^3\{\ ^{\wedge}\sim 2\ @k,\ k@^{\sim}\ ^{\wedge}\{q@ \phi^3\ a\ k\ i\ f\}\}^{\wedge}2s\}\}k\ p@ \phi\}\}\ ^{\wedge}@s,\ ^{\wedge}\{2\ \phi^{\wedge}\ i\}\}\}s\sim s^{\sim}2@^{\wedge}2s\ \phi\sim\dot{u}}\ !5!NPM\acute{E}\acute{E}\acute{E}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ 6^*5\ 1\ r\ \phi^{\wedge}k\ g\ k\ s,\ k\ \{\phi^{\wedge}1k@ \{s\}\}f\ a\sim k^3\}\}^{\wedge}2s\ g\ g\ \phi\}\}a@k^{\sim}\sim s\ \phi\sim\ \phi\sim r\ \phi^{\sim}a\ s^2^{\wedge}\{i\ ^{\wedge}\}\}\ \acute{E}\ \phi@ \acute{E}\dot{u}}\ !5!NPM\acute{E}\acute{I}\acute{I}$
- $Jk@gk\sim 2^{\wedge}qk\ \phi p^{a^{\wedge}2sk\sim 2^{-}1s^2r\ s\sim 2@^{\wedge}g\ k@k\ f@^{\wedge}\{rk\}\}\ \phi@@r^{\wedge}q\ k\ f\ k\ s\sim q\ 2@k^{\wedge}2k\ i\ 1s^2r\ ^{\wedge}\sim\ ^{\wedge}\sim 2s\ a\{\ ^{\wedge}2k\{k^2\ 1\ r\ \phi^{\wedge}i\ \phi\sim \phi^2\ 3\sim i\ k@q\ \phi\ s\sim 2@^{\wedge}g@^{\wedge}\sim s^{\wedge}\}\}^{-3}@q\ k@}\}^{\wedge}1\ r\ \phi^{\wedge}@k\ ^{\wedge}i\}\}\}s\sim s^{\sim}2k@k\ i\ ^{\wedge}a\{\ ^{\wedge}2k\{k^2\ 2@^{\wedge}\sim\ ^{\sim}p^3^{\sim}s\ \phi\sim 1s^2r\ s\sim \dot{I}\dot{D}\ r\ \phi^3@^{\sim}\ \phi p^{\wedge}@s,\ ^{\wedge}\dot{u}}\ !5!NPM\acute{E}\acute{E}\acute{D}$
-

TARGET: STROKESM Measures:

- J^Λ2sk~2⁻ q[Ⓢ] c³ a k i f » is^Λ q~ c⁻ s⁻ ũ ! 5 ! NPMÍÊ
- 5s⁻² c q[Ⓢ] ^ } c p² r k , ^[Ⓢ] c³ ~ 2 r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a s k ũ ! 5 ! NPMÌĭ
- Jk[Ⓢ] g k ~ 2 c p ^ g³ 2 k s⁻ g r k } s g ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ [Ⓢ] k g k s , s ~ q² r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a » i³ [Ⓢ] s ~ q² r k r c⁻ a s² ^ { ~ 2 ^ » 1 r c r ^ , k ^ 2 s } k p[Ⓢ] c } r c⁻ a s² ^ { ^[Ⓢ] [Ⓢ] , ^ { 2 c s ~ s² s ^ 2 s c ~ c p² r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a » ^ i } s ~ s⁻² [Ⓢ] ^ 2 s c ~ è i c c[Ⓢ] î² c î ~ k k i { k² s } k é c p î Ê } s ~ 3² k⁻ c[Ⓢ] { k⁻ ũ ! 5 ! NPMÊÊ
- Jk[Ⓢ] g k ~ 2 c p ^ g³ 2 k s⁻ g r k } s g ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ [Ⓢ] k g k s , s ~ q² r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a » i³ [Ⓢ] s ~ q² r k r c⁻ a s² ^ { ~ 2 ^ » 1 r c r ^ , k ^ 2 s } k p[Ⓢ] c } r c⁻ a s² ^ { ^[Ⓢ] [Ⓢ] , ^ { 2 c s ~ s² s ^ 2 s c ~ c p² r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a » ^ i } s ~ s⁻² [Ⓢ] ^ 2 s c ~ è i c c[Ⓢ] î² c î ~ k k i { k² s } k é c p î Ê } s ~ 3² k⁻ c[Ⓢ] { k⁻ ũ ! 5 ! NPMÌĭ
- Jk[Ⓢ] g k ~ 2 c p ^ g³ 2 k s⁻ g r k } s g ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ 1 r c ^[Ⓢ] [Ⓢ] , k ^ 2 2 r k r c⁻ a s² ^ { 1 s² r s ~ Ê Ê Ê } s ~ 3² k⁻ è Ê r c³ [Ⓢ] é c p² s } k { ^ ~ 2 z ~ c¹ ~ 1 k { { ^ ~ i p c[Ⓢ] 1 r c } 2 r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a » 1 ^ ~ s ~ s² s ^ 2 k i ^ 2 2 r s⁻ r c⁻ a s² ^ { 1 s² r s ~ Ê Ê Ê } s ~ 3² k⁻ è Ê r c³ [Ⓢ] é c p² s } k { ^ ~ 2 z ~ c¹ ~ 1 k { { ũ ! 5 ! NPMÊÊ
- P s } k p[Ⓢ] c } r c⁻ a s² ^ { ^[Ⓢ] [Ⓢ] , ^ { 2 c s ~ s² s ^ 2 s c ~ c p² r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a » ^ i } s ~ s⁻² [Ⓢ] ^ 2 s c ~ p c[Ⓢ] s⁻ g r k } s g ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ 2[Ⓢ] k ^ 2 k i ^ 2 } » r c⁻ a s² ^ { ũ ! 5 ! NPMÍÊ

Rural Recognition Measures:

ACUTE

- J[Ⓢ] c^a c[Ⓢ] 2 s c ~ c p ^a k[Ⓢ] p c[Ⓢ] } ^ ~ g k c^{a a} c[Ⓢ] 2 3 ~ s² s k⁻ 2 r ^ 2 1 k[Ⓢ] k } k² ^ } c ~ q k { s q s f { k c^{a a} c[Ⓢ] 2 3 ~ s² s k⁻ p c[Ⓢ] 2 r k Ê Ê s ~ i s , s i³ ^ { g c } a c ~ k ~ 2 } k ^ ~ 3[Ⓢ] k ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 c p ^ a² s k ~ 2⁻ 1 r c[Ⓢ] [Ⓢ] k g k s , k f[Ⓢ] ^ s ~ s } ^ q s ~ q 1 s² r s ~ Ê Í } s ~ 3² k⁻ c p ^[Ⓢ] [Ⓢ] , ^ ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 ^ q k c p g c ~ Â[Ⓢ] } k i ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ p c[Ⓢ] 1 r c } ^ 2 s } k { ^ ~ 2 z ~ c¹ ~ 1 k { { è = < W é c[Ⓢ] 2 s } k c p i s⁻ g c , k[Ⓢ] » c p ~ 2[Ⓢ] c z k ~ » } a² c } ~ 1 ^ ~ i c g³ } k ~ 2 k i ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 ^ q k c p g c ~ Â[Ⓢ] } k i s⁻ g r k } s g ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ p c[Ⓢ] 1 r c } d^Ñ Ê } s ~ 3² k⁻ 1 ^ ~ ^ a k ~ 2 s ~ 2 r k . , ^[Ⓢ] c[Ⓢ] c[Ⓢ] 2 c 2[Ⓢ] ^ ~ p k[Ⓢ] 2 c ^ r s q r k[Ⓢ] î { k , k { ~ 2[Ⓢ] c z k g k ~ 2 k[Ⓢ] è k l q ũ ũ J N * ũ * N * ũ k² g l é p c[Ⓢ] 2 s } k i g[Ⓢ] 2 s g ^ { 2 r k[Ⓢ] ^ a » ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 c p ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ 1 r c³ ~ i k[Ⓢ] q c ~ g[Ⓢ] k k ~ s ~ q p c[Ⓢ] i » ~ a r ^ q s ^ 1 s² r ^ ~ k , s i k ~ g k î f ^ k i f k i ~ s i k² k⁻² s ~ q a[Ⓢ] c² c g c { ^ a a[Ⓢ] c , k i f » 2 r k r c⁻ a s² ^ { f k p c[Ⓢ] k f k s ~ q s , k ~ ^ ~ » p c[Ⓢ] i ũ Á³ s i ~ c[Ⓢ] } k i s g ^ 2 s c ~ f » } c³ 2 r ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 c p ^ g³ 2 k s⁻ g r k } s g ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ 1 r c ^[Ⓢ] [Ⓢ] , k ^ 2 2 r k r c⁻ a s² ^ { 1 s² r s ~ Ê Ê Ê } s ~ 3² k⁻ è Ê ĭ r c³ [Ⓢ] é c p² s } k { ^ ~ 2 z ~ c¹ ~ 1 k { { ^ ~ i p c[Ⓢ] 1 r c } 6 V 2 r[Ⓢ] c } f c { » 2 s g 1 ^ ~ s ~ s² s ^ 2 k i ^ 2 2 r s⁻ r c⁻ a s² ^ { 1 s² r s ~ Ê Ê Ê } s ~ 3² k⁻ è ĭ ĭ r c³ [Ⓢ] é c p² s } k { ^ ~ 2 z ~ c¹ ~ 1 k { { ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 c p s⁻ g r k } s g ~ 2[Ⓢ] c z k ^ ~ i ~ 2[Ⓢ] c z k ~ c² 2 r k[Ⓢ] 1 s⁻ k ^ k g s A k i ^a ^ 2 s k ~ 2⁻ 1 s² r ^ ~ g c[Ⓢ] k[Ⓢ] k ^ a c[Ⓢ] 2 k i p c[Ⓢ] @ 6 S N² [Ⓢ] c z k N g ^ { k è s ~ s² s ^ { è ũ ! 5 ! NPMÊÊĭ
- , c g³ } k ~ 2 ^ 2 s c ~ c p * P c[Ⓢ] ? M 6 f[Ⓢ] ^ s ~ s } ^ q s ~ q s ~ 2 k[Ⓢ] a[Ⓢ] k² ^ 2 s c ~ 1 s² r s ~ ĭ Í } s ~ 3² k⁻ c p a[Ⓢ] k⁻ k ~ 2 ^ 2 s c ~ ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 c p ^ a² s k ~ 2⁻ 1 r c r ^ i ^ i , ^ ~ g k i ~ c² s Á g ^ 2 s c ~ 2 c 2 r k r c⁻ a s² ^ { a[Ⓢ] c , s i k i f » . ? N ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 ^ q k c p ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ 1 r c[Ⓢ] [Ⓢ] k g k s , k i ^ 2 k { k ~ 2[Ⓢ] c z k g c ~ ~ 3 { 2 ũ ! 5 ! NPMÊÊĭ
- Jk[Ⓢ] g k ~ 2 c p ^ g³ 2 k s⁻ g r k } s g ~ 2[Ⓢ] c z k ^a ^ 2 s k ~ 2⁻ [Ⓢ] k g k s , s ~ q² r[Ⓢ] c } f c { » 2 s g 2 r k[Ⓢ] ^ a » i³ [Ⓢ] s ~ q² r k r c⁻ a s² ^ { ~ 2 ^ 〇 2 ^ 2 s c ~ 1 s² r s ~ ĭ Í

