

! " # \$ % & ' () * + , - . / 0 1 2 3 B 4 5 6 7 8 9 ||
: ; < = > ? @ A - B C D

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EFG! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 B 9 : ; < = > ! ? @ A B C D E F 2 " G H I 4 J K L 7 6 M > !
? @ A B C N O P Q \$ % ' R = S ' T P U V W r h E G F 1 2 3 4 5 6 7 8 B 9 : X Y R Z [r h E G F X Y \] ^ X Y _ ' a b ' #
\$ % ' D E F 2 c d e f = S ' \ D E g h i ^ = S ' j k P < 0.05 l m n ' o p q + i] ^ \ r s t u v w x y k P > 0.05 l z n ' B C
{ | } ~ ^ _ a b & ' (* + , - . / 0 R 3 4 5 6 7 8 B 9 : 1 2 ~ W X Y > ! ? @ A \ _ _ _ g h _ _ _ _
D E F 2 \ o p q + i ^ j \ _ _ _ = j _ \ _ W 4 J _ Z \ _ _ _ _ _ _ _ a
H I J G & ' () * + , - . / 0 3 4 5 6 7 8 B 9 : > ! ? @ A
K L M N O G R 6 4 4 P Q R S T G B P U V O G 1 6 7 2 - 8 3 5 1 W 2 0 1 5 X 0 3 - 0 0 6 7 - 0 1

) ! * + , - . / 0 1 2 3 4 5 6 7 8 9 - . : ; < = > ?
@ 5 - . A B C D E F % G 5 H I J K L M N O P Q R S T U V
W @ X " Y Z [\ B] ^ _ ' a) ! * + , - . b c d 2 5 e
f g h i j k l 5 m n o / p q
1 Y Z [\
r s 2 0 1 2 % 5 t ~ 2 0 1 4 % 7 t u v w x , y z { j + ,
| l 7 6 } ~ _ _ _ a _ q _ _ _ _ " % _ >= 1 6 _ _ # _ @ _
_ _ \$ _ x , _ y _ _ _ _ j) ! * + , { _ _ _ _ \$ + , .
_ <= 1 0 % q _ _ _ r _ } _ _ _ _ _ _ O _ _ _ _ _ M _ a
_ M 5 _ M 3 8 } 5 _ _ J K L M N O P Q R S T U V W @ X "
Y Z [\ B] ^ _ ' _ k _ _ _ L M N O P Q R S T U V _
k q _ _ M _ _ _ 2 1 } 5 _ _ 1 7 } _ _ _ % _ _ 3 0 . 4 2 ± 9 . 3 5 _ _ 5
_ _ 2 5 } 5 _ _ 8 } 5 _ . _ 5 } _ a _ M _ _ _ 2 3 } 5 _ _
1 5 } _ _ _ % _ _ 2 9 . 9 9 ± 9 . 3 2 _ _ 5 _ _ 2 7 } 5 _ _ 8 } 5 _ . _
3 } _ _ M | l _ _ < % _ < + , _ _ _ _ _ _ _ _ _ _ _
_ \$ i _ _ P > 0.05 _ 5 _ _ _ _ q
2] ^ / _
2.1 K # _ - . d 2 _ _ K _ _ a - . b c _ _ 5 _ _ _ _ _ -
. _ j _ P 5 _ _ K _ _ b c _ _ 5 Q 2 _ _ _ _ - . 5 _ [_
_ _ _ q
2.2 _ _ M J K L M N O P Q _ S T U V W @ X " Y Z [\ B
] ^ _ ' _ k q _ _ K _ _ K X " Y Z [\ B] ^ _ _ _ _
_ # _ _ _ _ 5 _ # _ _ H 2 0 0 6 1 2 6 9 _ _ _ _ _ - . _ _ _ 5
_ _ K L M N O P Q R S T U V _ _ _ _ _ _ S # _ _ _ _
_ 5 _ # _ _ S 2 0 0 2 0 1 1 1 _ _ _ u - . _ 5 _ _ K _ [_ _ _ _ 5
_ K V _ _ _ q _ _ _ # 1 _ / d 5 / _ _ _ M _ _ u 5 K _ [_ !
" # 5 / 0 _ \$ % & ' M _ Q D _ (1 ~ 2 d) K 1 _ 5 * + ? @ q
2.3 a _ M _ _ J K L M N O P Q R S T U V _ k 5 _ _ K _
, _ _ M q
2.4 _ _ - _ _ % _ M | l , (. / _ _ - . 0 1 _ - . ? @ 2
3 4 A B 5 Q 6 7 4 - . : ; 6 7 q & 8 9 : ; 5 Q 6 7 _ K # _
_ < = > 4 ? @ A _ B C D E _ F _ P G : ; 5 / P H 4 I J _ q
2.5 _ _ \$ " _ _ J K S P S S 1 7 . 0 _ _ \$] K L b c _ M 5 _ N
_ _ O _ _ ± _ _ _ x ± s _ O P 5 _ _ J K t < Q 5 R j _ _ J K
X ² < Q 5 P < 0.05 _ _ _ _ _ \$ i _ q
3 ' a
3.1 _ M | l - . ? @ 2 3 S A B _ : ; 5 Q R _ _ _ _ M -
. ? @ 2 3 T _ a _ M 5 - . : ; R _ a _ M U _ P < 0.05 _ _ M
A B 5 Q R _ _ 5 _ _ _ _ \$ i _ _ P > 0.05 _ q V O l q
3.2 8 9 : ; 5 Q 6 7 _ _ _ M _ k W X _ 3 } - . _ _ Y m
Z u P H 5 [\ _] ^ 3 d _ P H _ _ 5 a _ M F _ ' V P H q
_ M _ k _ _ _ > S ? @ A _ B S C D E _ @ a 0 q

\$ l f " = > ? @ A - g h i j k l m n o & p q r			
M _	- . ? @ 2 3 _ d _	A B 5 Q R [n _ % _]	- . : ; R [n _ % _]
_ _ M	18.5±2.7	4 _ 10.5 _	0 _ 0.0 _
a _ M	23.6±3.8	5 _ 13.1 _	6 _ 15.8 _
t/X ²	3.145	0.812	7.986
P	_ 0.05	_ 0.05	_ 0.05

4 b c
) ! * + , b _ - . _) 5 _ _ M _ _ Y 5 _ _ \$ l c d J
K e @ f g h i j k l _ V S D _ m n - . 5 o b & ' M _ Q R
_ p l _ k " _ 5 q _ _ : ; R U S _ ? R r _ s t 5 u v _ u
_ k _ (w R S x y _ z _ 8 { q | _ 5 Y _ \$ l c d a _ + ,
. _ _ } 5) * ~ _ j) ! * + , c _ J e W @ # _ _ ' _ l
Q _ # _ _ ' j " _ _ k q
L M N O P _ _ Q R S T _ _ _ _ _ Q _ _ E o b O P
_ _ 4 D _ _ _ _ _ P _ _ j _ _ _ _ 1 5 o b P G M _ x +
, - . ? @ ¹⁵ | _ _ _ _ _ ; K _ P G _ _ 4 x + , - . _ X
j _ _ _ k q X " Y Z [\ B] ^ u _ _ _ _ _] ^ 5 b
Y Z [\ 4 \$ _ \ _ _ [_ M D j X " _ _ 5 _ _ _ Q \ j _ [_
_ _ _ _ 5 _ _ a _ _ P G : ; _ [_ _ _ z j _ [_ [~
K ¹² q L M N O P _ _ Q R S T U V _ _ _ _ [~ K 5 _ X " Y
Z [\ B] ^ _ [~ K _ _ _ 5 _ _ _ # _ W @ ; K 5 _ s _
_ _ 5 _ , _ l 5 8 u _ O 5 _ X " Y Z [\ B] ^ m n - . S
_ _ : ; j ~ K 5 _ _ _ O 5 _ L M N O P _ _ Q R S T U V
_ X - . S _ _ - . ? @ j l 0 q _ _ _ _ 0 _ P 5 L M N O P
_ _ Q R S T U V _ X " Y Z [\ B] ^ W @ ; K 5 - . ? @
2 3 _ _ T _ _ _ J K L M N O P _ _ Q R S T U V _ k j a
_ M 5 - . ? @ R _ a _ M r _ P < 0.05 _ 5 _ _ q _ _ 5 _ _ _
_ P 5 _ M A B 5 Q R _ _ U 5 _ _ M A B 5 Q R _ a _ M U 5
_ _ _ _ _ _ n o _ _ _ 9 ¹³ q
_ _ _ 5 L M N O P _ _ Q R S T U V _ X " Y Z [\
B] ^ W @ ; K 5 _ _ l _ _ : ; _ _ E o b - . ? @ 5 A B 5
Q R _ U 5 _ _ _ a U 5) K " _ _ _ 5 _ f u _ _ _ _ _ q
d e P Q
[1] _ _ \ _ _ _ \ _ _ _ \ _ . _ _ 8 _ & ' (_ * + , - . _ _
1 2 ~ W = _ _ > ! ? @ A D E F 2 " G H [J] . _ W _ w _ _ \
2 0 1 3 \ 2 5 k 3 l \ 3 5 9 - 3 6 1 .
[2] _ _ _ \ _ _ \ 4 _ _ \ . 3 4 5 6 7 8 B 9 : X Y _ 7 _ * _
_ _ _ R _ _ _ _ [J] . _ W * _ _ w _ _ \ 2 0 1 1 \ 1 k 1 l \ 2 8 -
3 0 .
[3] 4 _ _ . & ' (_ * + , - . _ _ ! ? _ A D E F 2 " _ _
\$ % [J] . _ _ _ 4 _ \ 2 0 1 4 \ 1 2 k 8 l \ 2 5 - 2 6 .