

R BBQG

BBQG

U B R ,

M N , H Q , R F F Q
 Q & * E * A ' *
 * , D
 & ,32* / , / 4 * 0,14* 2,0.
 . * / * 0 * 1 D R BBQGR
 BFP-0 & ? G * L
 A * SQ? ' - - & 2. *
 0, . 6 ' , ? , ,32* / , / 4 * 0,14* 2,0.
 3. - / 15,0* 62, / * 0. 4,2* 212,4 N *
 , ? 04

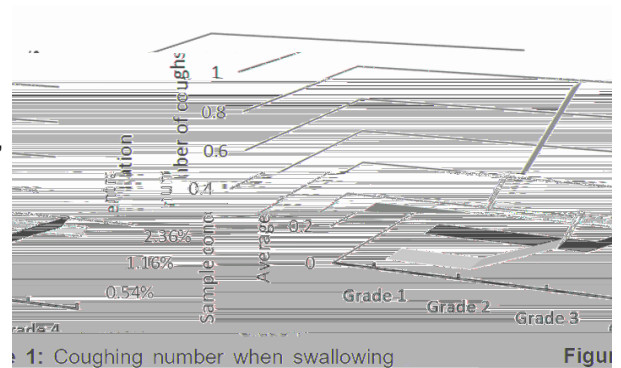
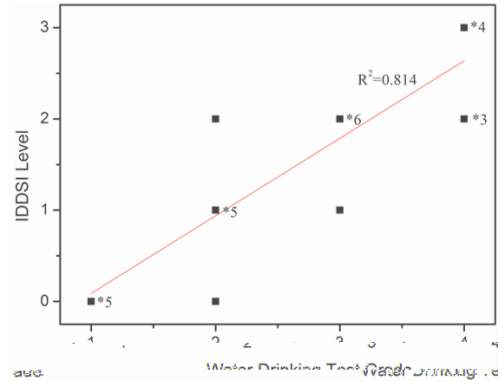


Figure 1: Coughing number when swallowing 20ml samples for patients at different grades as assessed by the Water Drinking Test.

R & -TQR' *
 Q *
 K *
 BBQG
 BBQG
 BBQG



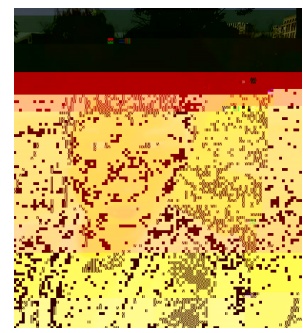
B , P C S J * SI * B 0. / 4
 B , N V * Q K ? S & ' * K / 5
 B , F E S ? 4 B * SI * & S S * R L S
 B , Q N O S & ' ? / 5 / 6 , Q
 B , A P , A



K 0/ * 0. /5, F
H F *
M N , R Q %
A , F J E S N , H
*
Q * N ,
Q * D
Q %
N , H
*
,



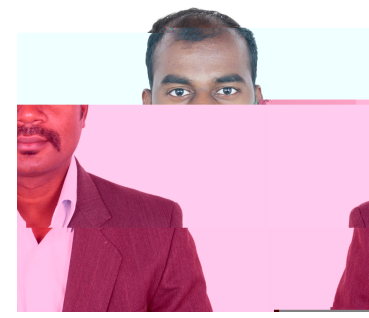
K * D M N P E B
*0. /4, F D Q L & ' SAQGS *
K * N B D C S N K , F R
S K B G A Q , L
D ? & ' A , J , F
,



D M N
D , F @
N B A C
O , F N B
R S
, F
E S
, F
,

I , F @ @ S * G *
KQ @
D Q & NQS* R ' N B
@ N
& SQK* K ' , Q *
K S 0,3
, F DMN

@ @ S
KQ D R ? S , F
N B C Q & Q
C ' AQQ-A D R
P G &G ' , F
@ NR*G N B,
F @ P ? 0. /2-0. /3
HEQS S



AQQ-ADRPGF
J

?
, R
O N
H ,

, R
, F
? *
P S



N
L F * Q H
F B 5 * 0. / 4 *
S B, P J C
SI

R
, R
8

*
?

B Q G A B *
F I * K A R
* N , A

, R
N , A
, R
, N ,
A

R DMN

S L , G *



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M *
 S A Q A U
 P A & SP' L , I S
 H , Q G , G
 ' *
 S K A N L , *K

- L , L /5-16 *0. /5*F *A ,
- * S J *? 6-// *0. /6*J *SI ,
- 2 *0. /6*L *SI ,

R CQG
 0. /48
 • R 8A *D O
 N *26*123-136,
 • R 8 *B *
 1. *0-04,

C 8 , , * , , , ,
 R 8&. '64 35/ 06. . 67. 2
 D 8&. '64 35/ 06. . 67. .
 U 8 8- , , , - , = //46
 115 203*DMN J *Q D Q @ *
 /6V Q *H B * E S *F *1/.. /6*AFG?
 C 8 , 32 ,

- *E,*Q *K,*J * , A *H(&. /5', @ , B *
- Q *K,* *E,*Q *H*J , , A *H &. /5', A *H &. /5', R Q *
- U *V,(A *H &. /5', D , A M A G
- K *A,(A *H &. /5', D - 8
- Q *Q,*S *P,*@ *F, A *H(&. /5', Q , H R Q * /- /5, BM@
- A *F, A *H(&. /5', P , @ *
- J * ,*A *H(F *K, &. /5', F , H R
- J *J,*? *R,*C *P,*F *K, A *H(&. /5', N , H
- J *J,*@ *P,*?,*A *H*Q *?,(&. /4', L 8D *
- R Q *25*2/1-200, BM@/.. /111- , /0/7. , A *H?, ,(*J *N,*Q *A,K,*F *@*A *H* B *P,M,*B *H*I *H*J *A,*K *H* N *K,*P *J, Q *Q, &. /4', B

- K *A,(A *H &. /5', M , C P K & , J, B *C ,
- ? *R,*S *P,(A *H &. /5', M , GM K K , E, A & , *
- J *J,*Q *? , A *H &. /5', C , GL D D F ? , P, U & '*C ,