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**Short Communication** 

## Mental Illness Scale and Suicide

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### **Abstract**

In this brief paper, we undertake to establish a scale for mental pain, with suicide being the worst level. We see that AT Math provides a sufficient solution to the problem of quantifying mental anguish.

Keywords: Mental Pain; Suicide; Quantitative Scale

### Introduction

In addition to physical pain such as back pain or headaches, there is mental anguish. Mental anguish can be put on a quantitative basis. If we make a scale of mental pain from 0 to 10, and raise it to the power of the exponential, we get:

e10=22026: Suicide

 $e^8$ =2981: Recurrent Attempted Suicide

e<sup>6</sup>=403: Attempted Suicide Once [1] cf. 40.8%

e4=55: Hospitalized Depression

e2=7.4: Depression

e<sup>0</sup>=1: Malaise.

Assume an equation of a line:

y=mx+b

 $e^x=mx+0$ 

x=Ln m + Ln x.

Let  $y=x = 45^{\circ}$  line  $\Rightarrow m=1$ 

y=Ln x+Ln x

y=2Ln x.

A 45° line implies the two-pole solution.

 $\cos \theta = \sin \theta$ 

 $\cos 45^{\circ} = \sin 45^{\circ} = 1/\sqrt{2}$ 

y=cos θ-sin θ=0.

x=Ln m+Ln x

y=Ln x+Ln x

y=2Ln x

y/2=Ln x.

y=x cos  $\theta$ =2Ln x

 $=10\cos 45^{\circ}=2Ln x.$ 

 $y=5(\cos 45^{\circ})/ Ln x.$ 

y=2Ln x=5cos  $\theta$ /ln x

 $2(\operatorname{Ln} x)^2 = 5 \cos \theta$ 

 $\cos \theta = 5/2 (\operatorname{Ln} x)^2$ .

Sine is resistance to suicide. Cosine is attraction to suicide in our two-pole system.

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14
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R=\bar{P}=\cos\theta=5/2~(2Ln~(Ln~x)) =5 Ln Ln 10 =4170. e^{4.170}=64.715=64.7\%~cf.~40.8\%~x~39.6\%=40.8\%+16.15\%~*Golden~Mean=57.3\%=1~rad.
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Suicide rate for schizophrenia in males is reportedly approximately 60%. Our scale is a good approximation for mental anguish.

### Conclusion

We can put metal anguish on a quantitative basis.

# **Bibliography**

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