

ACTA SCIENTIFIC PHARMACOLOGY

Volume 2 Issue 11 November 2021

Obesity and the Human Functions

Paul T E Cusack*

23 Park Ave, Saint John, NB E2J 1R2, Canada

*Corresponding Author: Paul T E Cusack, 23 Park Ave, Saint John, NB E2J 1R2, Canada. Received: June 03, 2021 Published: July 20, 2021 © All rights are reserved by Paul T E Cusack.

Abstract

In this paper, we attempt to understand better that causes of obesity. Only one patient is considered. We make use of AT Math to see why some people are apparently overweight, yet consume few calories. We calculate ideal body fat percentages.

Keywords: Obesity; Metabolism; R-value; Human Functions; Body Fat Percentage; AT Math

Introduction

Obesity is a growing problem among modern people. Worldwide obesity has tripled since 1975. Fifteen percent of youngsters are obese, while one-third of adults are obese. In this paper, we provide a mathematical solution to the obesity problem.

The Patient we consider here is grossly obese. She weighs approximately 350 lbs (159.1 kg). I have never seen her consume an ounce of food and I am with her 8 hours a day every day of the week. She is naturally obese. She swims for exercise yet remains fat. An ankle injury is made all the worse by the extra weight. She swims because she cannot walk very well.

Normal Body fat on a woman is 25-28%.

28% x 1590.1=44.55 kg

 $TE=M[1/2\pi]$

 $=44.5(1/2\pi)$

 $=0.709 \sim 1/\sqrt{2}$

44.5kg-159.1)=114.6kg=252.1 lbs

350lbs-252.12=97.88 lbs=44.5 kg

The Insulation R-Value=(W/cmK). RSI= $(1/\sqrt{2})/[100 \times (273+\Delta T)]$ Normal Body Temperature=36.4°C Room Temperature~20°C ΔT =36.4-20=16.4° RSI= $(1/\sqrt{2})/[100 \times (273+16.4)]$ =0.02443 ~0.0245 This is the same as Triple Insulated ¼ inch space Glazing. 2.45x 350 lbs=857.5 lbs/2.2=389.8 kg=1/2.5656~1/SF F=Mg 389.8(9.806) =3822N 3.822kN

Citation: Paul T E Cusack. "Obesity and the Human Functions". Acta Scientific Pharmacology 2.11 (2021): 22-25.

Divide by 2 knees	M=0.3465 x 2=0.693=Ln 2
=1.9111 N/Knee	$t=2=d^2E/dt^2$
Normal Wt= F_{N} =Mg=44.5(9.806)	t ² -t-1=1=E
=436.3 N=0.4362kN	t ² -t-2=0
1.9111-0.4362kN=1.475~0.1504kN=150.4N Excess force on each	$t=2:-1 \Rightarrow SE=SE'$
knee.	E=5; t=3
150.4=M(9.806)	TE=M(1/2π)
M=15.34 kg/ knee	=5(2)π
M total=30.68kg	=31.4
The skeleton can be thought of as mathematics. It provides the structure that the flesh is supported by. Flesh can be thought of	31.4-350=318.58
as mass. And blood can be compared to energy. The life is in the blood.	=1/3.138~1/π=1/freq=1/Period T=1/E=t
One equation for the skeleton is Gauss's Equation	M=Ln t
$Lim = \pi(x) / [x/Log x] = 1$	=Ln(1/3.138)
The equation that describes the flesh is the familiar	=1.1435 kg
M=Ln t=Ln π =1+ (1-Ln π) ⁷ =1+0=1	=251.6Lbs
The Blood can be thought of as the Total Energy TE=2	=Period T
This is the Body [1].	=Е
Skelton	TE=M(1/2Pi)
lim (π)(t)/[t/Ln t]= π (√2)/[(√2)(Ln √2)]=2.178~1 kg	M=15.82
Flesh	~15.34kg/knee
M=Ln t=Ln $(1-Ln \pi)^7$	Normal Weight=165 lbs=82.5 kg
TE=1/0.707	82.5/2knees=41.25 kg
E=1/t	15.82/(41.25)=38.4%
$t=\sqrt{2}$	38.4% + 28% (Normal Body fat)
M=Ln $\sqrt{2}$ =0.3465kg	=66.35~ <i>ħ</i>

Ε=ħυ	=2(-1)-1=-23
$=6.635(1/\pi)$	dE/dt=±3
=2.112	t ² -t-1=E
t=1/E=1/2.112=0.4735	E=5; 11
t ² -t-1=E	M=Ln t
(0.4735) ² -(0.4735)-1	=Ln (1/5)=-1609
=-1.249~-1.25	=Ln (1/11)=-23.97
$=E_{\min}$ of the GMP.	1609/23.97=14.90~150 (see above)
Metabolism	Therefore there are two equilibrium points for Mass (Body Fat).
dE/dt=2t-1	TE=M[1/2π]
$= \int d^2 E / dt^2 = \int 2 dt$	Metabolism
=2t+℃	$dE/dt=1/(2\pi)(dM/dt)$
=C=-1	$=1/(2\pi)(2)$
t ² -t-1=1=E	$=1/\pi$ (see above)
t=2; -1	M=251.6
So E=1 for a persons metabolism	ΔM=251.6-165=86.6=1/sin θ
$TE=M[1/2\pi]$	$s=E \times t= E t \sin \theta$
1=M[1/2π]	s=t
M=2π	$E=1/\sin\theta=1/\sin 60^\circ=1/t$
M=Ln t	t=sin 60°
=535.4	M=Ln t
=1/1867	Ln (0.866)
=1/ρ	=0.1438
dE/dt=2t-1	=0.695
=2(2)-1=3	=Ln 2

	25
=Ln t	Ln t=1/t
t=2/1=1/cosθ	y=y'
[1/cos60°]/sin 60°	Conclusion
=1.1347	We see that AT Math can be used to determine ideal body fat percentages.
=1/0.866	Bibliography
==1/sin 60	1. Paul TE Cusack. "The Human and Universal Functions". <i>Current</i>
=1/t=E	Trends on Biostatistics and Biometrics 3.2 (2020).
E = 1/sin (-1) = -57.29 =57.29	
1/sin (2)=28.6537	© All rights are reserved by Paul T E Cusack.
57.29/28.6537	
=2.0	
M=Ln t=Ln (1.1547) =0.1438=6.95=Ln 2	
The ideal Body Fat Percentage for average Men =15.47% while for average women it is 30.9%	
Metabolism=dE/dt=2t-1	
$\int dE/dt = 2t^2/2 - t + \mathbb{C}$	
$E=t^2-t+\mathbb{C}$	
Let E=1; C=-1	
t ² -t-1=E	
But M=Ln t	
e ^{M=t}	
e ^{2M} -e ^{M-1} =E	
2M-M-Ln 1=E	
M-0=E	
M=E	
But E=1/t	