# Landmines \& Zombies 

## Taking on Chronic Fatigue









Testing
Faecal Profiling Hair tests

Blood tests
Saliva
cortisone testing

Amino acid
Supplements
Ornithorne
Tyrosine
Ubiquinol
Glutamine

Other/Vitamins
Vit E
Fish Oil
Vit C
Biotin Bile Acid

Antifungal medications
Nilstat Ampicillin
Difflucan
ECC
Amphotercin

Enzymes
Lumbrokinase
Probiotics Creon

## Mineral <br> Supplements <br> Iron <br> Cal-Mag <br> Molybdenum Zinc

Diets
Low starch

No starch Low carb

Dairy free
No red meat
Sugar free

## Wellness



| Date | Wellness | Notes | Diet | Medications |
| :---: | :---: | :---: | :---: | :---: |
| 8/09/10 | 0.35 |  | start this column here: total diet: asparagus, celery, red cpsicum, spinach, almonds, meat, herbal teas, eggs for brekky. Exceptions noted | starting taking: 6 parex, 4 nilstat, 4 amphotercin 10mg lozenge, probioplex, hydrozole |
| 9/09/10 | 0.1 |  | " |  |
| 10/09/10 | 0.1 | had a glass of wine | " |  |
| 11/09/10 | 0.65 | had coffee and a shot of whisky at night | " | ' |
| 12/09/10 | 0.1 |  | " | " |
| 13/09/10 | 0.4 | glass of wine at night | " | " |
| 14/09/10 | 0.1 | glass of wine at night (my bday!) also didn't have lunch. No meat today, only fish (salmon) for dinner. | " | " |
| 15/09/10 | 0.4 | 1/2 glass of wine, switched from beef/chicken to fish as only meat. Also had first Difflucan tonight. | removed all meat other than fish from above diet | same plus difflucan today |
| 16/09/10 |  | felt 99\% normal ! 1/2 glass wine at night | ' | back to same minus difflucan |

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## Minefield Clearance Time Model

$$
\begin{aligned}
\ln \text { CLEARTIME }= & \beta_{0}+\beta_{1} \cdot \ln F R A G S+\beta_{2} \sqrt{\text { AREA }} \\
& +\beta_{3} \cdot i v U X O+\beta_{5} \cdot \ln (A P+1)+u_{i}
\end{aligned}
$$

| Effect of statistically significant variables (Transformed model) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{R}^{2}=85.2 \%$ |  |  | Constant (InTeamHours) | Fragment Slope (InTeamHours/lnFrags) | Area slope (InTeamHours/sqrtArea) | $\begin{aligned} & \text { AP } \\ & \text { (InTeamHours/lnAP) } \end{aligned}$ |
| Base figure |  |  | -1.71 | 0.531 | 0.00345 | 0.014 |
| Additional effects | Land use | Grazing, Irrigation, Road Agricultural Residential |  | 0.023 | 0.00076 |  |
|  | Significant UXO | No Yes | 0.15 |  |  |  |
|  | Hard surface | $\begin{aligned} & \mathrm{No} \\ & \mathrm{Yes} \end{aligned}$ |  | 0.014 |  |  |
|  | Vegetation | Bushes, Grass, None Prickly bushes Trees |  | 0.015 | 0.00112 |  |
| Total |  |  | ? | $?$ | $?$ | 0.014 |



Wellness vs Standardised Inputs


## A Personal Wellness Model

$$
\begin{gathered}
\text { WELLNESS }=\beta_{0}+\beta_{1} f_{1}\left(x_{1}\right)+\beta_{2} f_{2}\left(x_{2}\right)+\beta_{3} f_{3}\left(x_{3}\right) \\
+\ldots+\beta_{n} f_{n}\left(x_{n}\right)
\end{gathered}
$$

Multiple Regression

Stepwise procedure to
optimise variable form

## Factor 1 Weekends/Holidays

Coefficient: 7.0\%
P-value: $\mathbf{0 . 0 0 0 0 0 0 6}$
Optimal form: 100\% on Day 0

Factor 2
Tyrosine

Coefficient: 6.9\% per 1000mg P-value: $\quad \mathbf{0 . 0 0 0 0 0 1 0}$ Optimal form: 100\% on Day 0


## Factor 3

Coefficient: -5.9\%
P-value: $\quad 0.07$
Optimal form: 33\% from Days 0, -1 and -2


## Results Summary

| Factor | Effect | Magnitude | Effect <br> timescale | Level of <br> Certainty |
| :---: | :---: | :---: | :---: | :---: |
| Holidays | Good | $+7 \%$ | Same day | High <br> $(p=0.00)$ |
| Tyrosine | Good | $+7 \%$ | Same day | High <br> $(p=0.00)$ |
| Red meat | Bad | $-6 \%$ | Cumulative <br> over $\sim 3$ days | Moderate <br> $(p=0.07)$ |

## I got a bit excited...



## What I learned



## What I learned

## I thought

## I learned

The medical profession was my only hope

There are things I can do to help myself

## What I learned

## I thought

The medical profession was my only hope

Chronic fatigue was too complicated to analyse

The data was too rough

## I learned

There are things I can do to help myself

That's what statistics are for!

Rough and regular is enough

## What I learned

## I thought

The medical profession was my only hope

Chronic fatigue was too complicated to analyse

The data was too rough

It was 'only' subjective measurement

