The near optimal solutions for oncological prognostics and treatment protocols

- Myriad of influence clusters and parametric relationships in the diagnostic approaches to oncological disorders
- The overlaps of confluences of variables are die cast of structural pathways for treatments in the annals of medical sciences and consequently difficult to convincingly unravel
- Heuristics can achieve solutions when the maze intensifies in density

The edifice of the Blackstone Synergy psycho somatic interventions

- Approach -1: Mapping the psychological makeover of the patient to comprehend the influences of the mind on matter

- Approach -2: Critical lead indicators of metabolism of blood , muscles and glucose besides the quality of perfusion in the CNS and related V/Q in both pulmonary substrates and contextual CNS

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Approach -1 : Psycho somatic elements in the heuristic model

- Cognitive qualities of complex relationship situations in life
- The intrinsic capacities to differentiate critical impacting elements for personal well being and psychological structure of the self
- The plexus confluences of thought waves have impact on the configurations of the aura and consequently on the possibilities of morphological mutations of the cellular structure

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INTRODUCTION TO QUANTUM MATTER – defining the aura origins

- The quantum field determines the flux strength of the magnetism around living bodies and is a function of the awareness thresholds of the subject; essentially the key determinant being the cognitive sensitivity of the substrate in the unified field of material existence.

THOUGHT PROFILES

The **thoughts are long known to be electrical impulses** in the context of living fields; for humans and animals as well as for plants with **distinct cognitive maps**.

However, the complexity arises from the **subtle boundaries in the wave configurations that do give rise to a family of waves and hence generate the complete spectrum of color possibilities** around all **cognitive entities herein classified as living bodies of quantum energy.**

AURA ANALYSIS

In the context of human behavior and patterns of reactions to conditioned stimuli, **the configurations of the field assume certain attributes that are unique to an entity or an individual.**

The quantum fields around persons get intervened by this family of thought waves and hence assume colors to represent the resultant field.

Thus the color attributes of the field around living entities and especially humans speak volumes about the nature of the mental conditions and the equilibrium threshold of the thought patterns.

THOUGHT PROFILES DETERMINANTS

Each **thought pattern is believed by empirical evidence to have influences on certain arterial nodes of confluence by virtue of the resonance of the waves with the cellular waves;**

each human cell is alive in a human body and hence by an extension subscribes to a field;

therefore a confluence of cells in the arterial nodes shall have unique characteristics of wave configurations to allow harmonics to set in with the thought waves.

QUANTUM FIELD DYNAMICS

- Events of matches and mismatches influence the nodes in equal measure. **A perfect match can bring in amplification of the life forces while the vice-versa is true as well**.
- There are certain levels of amplitude that define the magnitude of 'life' as it were.
- **Dwindling life-forces in the cells could actually cause a mutation through exposure to waves that are fundamentally not synchronized with the natural attributes of the waves in a cell.**
- This dissonance can actually lead to a collapse of the binding forces in a confluence of cells thereby bringing in radical changes in blood chemistry and the pathological states of the human body.

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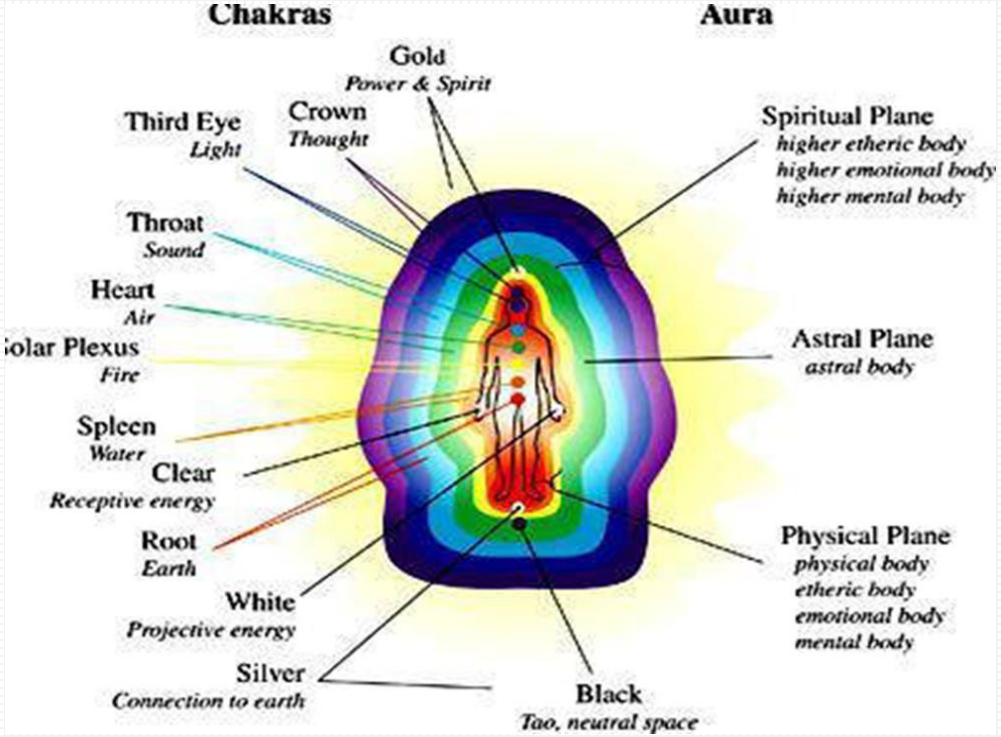
AURA MAPPING

The roots – analysis



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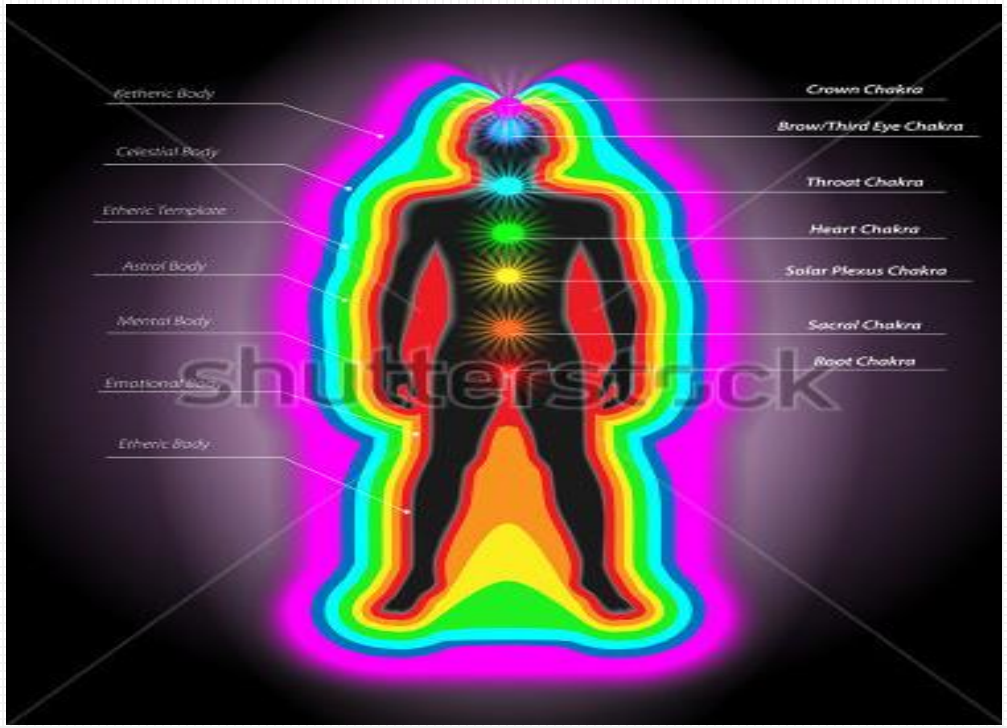
NODAL CENTERS

The magnetic field model



Analysis of behavioral traits

Intensity level of stimuli: The subject is exposed to **conditioned situations in real life happenings through quick responses wherein sub-conscious reflexes are examined for traits (intensity level-1)**. For **extended periods** provided to react to **set-piece conditions**, the **threshold level of intensity is 3.**

The **excitation level is 1 for a given attribute** when the **highest conceivable adversity** pertaining to the state is exposed to the subject. The **intensity goes down to level 3** for excitation as the **dilution in the original level is brought about**. Fundamentally, this is an **endurance test for a given attribute influencing each organ.**

Permutations are worked in to evaluate the collective impact for each organ type designated by alphabets a through g. **n indicates the number of iterations in the Heuristics models** model to achieve an **epoch. X_0 through x_6 imply the states** in each organ type; **essentially implying how healthy or otherwise a given organ set can possibly be under the given aura and psychological combine**.

Prediction of the pathological states in the heuristics model

The mathematical expression of the character index is used in the Heuristics models model to **help predict the pathological condition *and then the regression analysis is done to establish the statistical relationship in the validation process.***

There always exists a **close pathological state correlating with the psychological maps of the subjects and the Heuristics models modeling can be successfully used to predict the onset of mutants** in the cellular configuration *as the process is fundamentally stochastic in nature and is governed by the quantum matter influencing the physical states of the subject.*

A detailed enquiry into the aggregation of experiences through the usage of machine learning techniques of Heuristics models models is merited as an interesting insight into generating psychological therapy for lasting solutions to severe pathological states of impairment in the human body

Approach - 2 : Somatic elements in the heuristic model

- Cross functional domains of pathology, hematology and CNS signal fidelity and qualitatively improved inputs shall define the heuristics models for establishing the cluster strengths
- Thoracic organs have CNS determinants and consequently peripheral signal fidelity, signal strength in the cellular populations in the various CNS coordinates and interventions of the multi-organ influence grid have major impact on the patient
- Perfusion quality and related V/Q shall be the major determinants of the efficacy of the diagnostics and treatment protocols being administered on the patient

SEQUENCING INFLUENCES - VITAL METABOLISM AND IMMUNOLOGICAL SEQUENCING SIMULATED CONCLUSION -1				
VITAL PARAMETER	FUNDAMENTAL CAUSAL LINK	BLOOD METABOLISM INFLUENCE WEIGHT	GLUCOSE METABOLISM INFLUENCE WEIGHT	IMMUNOLOGICAL SEQUENCING WEIGHT
Diastolic	Serum quality	0.99	0.77	0.99
Systolic	Serum quality	0.99	0.77	0.99
HR / tachycardiac output/ functionality of arterial - venous blood volume ratio	Plasma capacity for optimum coagulation, serum quality for rheological properties and fluid viscosity/ organ conductivity for electrical signaling and flux strength at plexus	0.99	0.98	0.99
RR / Cp - oxygen/Cp - carbon monoxide/ Tidal and residual volume/ alveolar dead space / alveolar perfusion				
CBV				
Opacity ratio of cerebral cells - hypothalamus/ occipital/grey matter				
EEG - graphical analysis for field strength / NCV / CSF conductivity for electrical signaling - parietal / lumbar / cervical zone analysis	Field strength and dielectric field creation propensity	0.99	0.95	0.99

Vital metabolism – the main drivers

- The blood metabolism is the key parameter of influence whilst the glucose and muscle metabolism are the auxiliary factors that can define the efficacy of the prognosis and treatment protocols
- The functionality of the thoracic organs are determined by blood perfusion into the CNS cells, the relative resistance caused by the cellular opacity and the concomitant factors of CBV – cerebral blood volume
- Respiratory rates and the partial pressure differentials between oxygen and carbon dioxide in the cardio – pulmonary functional node shall effectively help predict the prognosis and the quality of treatment. Slow decline can be captured in the heuristic model to pin point relatively poor prognosis and alert the system

Vital metabolism – the auxiliary drivers

- Glucose metabolism can influence the electromagnetic field strength in the CNS and might resist the circulation of adequate blood volumes in the various segments of the brain besides lessening the blood volume itself.
- Fluid friction characteristic of the blood are influenced by the twin properties of muscle metabolism and lipids density in the blood stream causing significant drops in metabolic factors which in turn adversely impact the functionality of the thoracic organs.
- Cardio-pulmonary functionality is governed by the blood stream characteristics as outlined above as well as by the food combustion quality that disrupts the relative partial pressures of carbon dioxide and oxygen thereby influencing the V/Q and triggering potential cardiac shunt; potentially dangerous for the onset of morphological transmutations in the somatic cells of thoracic organs

Vital metabolism – the peripheral neuropathy

- Neuropathy is almost always triggered by declining flux strength in the CNS of the CSF but is often ignored in the absence of real time data.
- Heuristics seeks to collaborate with the conventional signals of pathology, hematology and the CNS through fMRI – functional MRI for creating mathematical relationships to predict the probability density of declining neural and peripheral signals in the CNS and correlate with the progression of a potential oncological onset or a metastising tumor
- The lead indicators of the neuropathy fidelity tests are synchronized with the elements of metabolism to generate the rate of entropy in prognosticating in the heuristics grid and assisting the ecosystem of surgeons and physicians to treat and evaluate simultaneously

SEQUENCING INFLUENCES - VITAL METABOLISM AND IMMUNOLOGICAL SEQUENCING				
PATHOLOGICAL PARAMETER	FUNDAMENTAL CAUSAL LINK	BLOOD METABOLISM INFLUENCE WEIGHT	GLUCOSE METABOLISM INFLUENCE WEIGHT	IMMUNOLOGICAL SEQUENCING WEIGHT
Lipid profile	Food combustion	0.99	0.77	0.91
Uric acid	Food combustion	0.99	0.77	0.91
TPC	Angiogenesis and homeostatic balancing - lead time for positive and negative signal sequencing	0.84	0.98	0.99
WBC count / esonophils and family				
Hb%				
HCT%				
Creatinine and renal profile	Food combustion and enzymatic influences as defined by homeostatic balancing	0.91	0.95	0.99

Pathology – the interpretation of data

- Conventional pathological data needs to be aligned with the vital metabolism parameters in the heuristics grid to define the influences and assist the medical ecosystem to be alerted on the potential progression of the disease on hidden outliers that would otherwise have been ignored in isolation
- Related blood stream characteristics and muscle as well as glucose metabolism shall assist in evaluating the primary pathological data for signal transgressions in the CNS that have disruptive impact on the hormonal and transmission profile of the homeostasis grid
- The impacting influences on the thoracic organs for the pathological derivatives would have to be treated in the context of the CNS signal fidelity to enable higher thresholds of controls on both the prognosis and treatment protocols

THORACIC VITALS						
Diastolic	Systolic	HR / tachycardiac output/ functionality of arterial - venous blood volume ratio	RR / Cp - oxygen/Cp - carbon monoxide/ Tidal and residual volume/ alveolar dead space / alveolar perfusion	CBV	Opacity ratio of cerebral cells - hypothalamus/ occipital/grey matter	EEG - graphical analysis for field strength / NCV / CSF conductivity for electrical signaling - parietal / lumbar / cervical zone analysis
Muscle metabolism	CNS signal fidelity	Pumo -Cardiac output signified by V/Q	Muscle metabolism	CNS signal fidelity	Muscle metabolism	Muscle metabolism
Fast twitch / slow twitch muscle spread	Peripheral nerve signal strength	CNS signal fidelity	Fast twitch / slow twitch muscle spread	Peripheral nerve signal strength	Fast twitch / slow twitch muscle spread	Fast twitch / slow twitch muscle spread
Blood metabolism	Muscle metabolism	Peripheral nerve signal strength	CNS signal fidelity	Diastolic - systolic gap percentage	CNS signal fidelity	Glucose metabolism in the CNS
Pulmonary -Cardiac output signified by V/Q	Blood metabolism	Muscle metabolism	Peripheral nerve signal strength	Blood metabolism	Peripheral nerve signal strength	Blood metabolism
Glucose metabolism in the CNS	Glucose metabolism in the CNS	Fast twitch / slow twitch muscle spread	Glucose metabolism in the CNS	Glucose metabolism in the CNS	Glucose metabolism in the CNS	Pumo -Cardiac output signified by V/Q
						cluster strength of influence > 0.83
						cluster strength of influence > 0.55</= 0.61

Metabolism and vital functionality – the interpretation of data

- Heuristic models and mathematical interpretation of data in a time series for a cross-section of both placebo and critically ill patients on treatment roster could potentially lead to major breakthroughs in the journey of prognosis and treatment
- Metabolism and the functionality of vital organs is indeed linked intrinsically but intuitively hitherto
- Heuristics has the potential to bring the relationships of the various parameters and the variables as well as the nuances in a close grid to generate life saving solutions

Mathematical equations for approaching the oncology heuristics

- Nodes in the DFBL model of heuristics – depth first and breadth last
- The stochastic logic for determining rare outliers in a time series data for the :black swan effects"
- Entropy definition and reduction of entropy in the stochastic process to locate the nodes of definitive influences

Heuristic approaches on simulated mode

Baseline treatment of variables in a DFBL – depth first and breadth later mode entail the establishment of the efficacy of each of the variables in a binomial probability density function to discrete entities near independent of influences.

$P(x,n,p) = (n/x)\ p^x\ (1-p)^{(n-x)}$ --------(i) (Node determination -1)

(n) implies the number of trials and x is the scatter of outcomes in clinical trials for each of the competing variables in isolation treatment of the others.

(x) scatter is independent of each other in the function and has a probability density (p) for each trial.

Conceptualization of the Heuristic nodes of influence variables in the DFBL mode necessitate the independent probability density in a population scatter to track the poisson element. ***Cancerous growth is recognized as a poisson distribution and the probability density function is of seminal impact in predicting outcomes.***

$f(k) = (e^{-\lambda} \lambda^x) /(x!)$ ----------(ii) (Node determination -2)

λ is the interval rate of the time series of events between occurrences. This is of fundamental importance in evaluating a sequence of events leading to the proverbial "black swan" event of a discovery of changing cellular morphology and mutations leading to oncological states. The time rate used in the poisson density function of likelihood events during the experimental stages should be narrow enough to accommodate detection of rare occurrences.

Euler number is used to denote the maturity of events around a data scatter and definitive clinical outcomes for each of the competing variables. It is important to arrive at **reproducibility of variables** by looking at a tapering constant wherein e>1in the expression y=(1/x). Gravitating around euler gives referential clinical values that can be safely assumed to be benchmarks in a heuristic referential.

$f(k) = e^{\lambda}\zeta_{\iota=0}^{[\kappa]}\lambda^{\iota}/\iota!$——————————(iii) - the cumulative density function for maximum likelihood of a poisson event in the data scatter of each of the clinical variables in isolation. ***[k] is the floor function in magnitude that helps achieve a saturation maturity in the stochastic process.*** **(Node determination -3)**

Cumulative density function equalizes the variances within the realm of reproducibility and enhances the data fidelity for feeding into the heuristic plane.

Decisive treatments on the DFBL grid to arrive at effective cluster strengths and deriving the functional crosslinking variables across the parametric breadth.

The decisive mechanism of the heuristic process in the DFBL mode is the reduction in entropy for arriving at cluster strengths. As the entropy reduces, the stochastic process reaches a stagnation and the cluster strength is derived for optimality.

The stochastic process in the heuristic DFBL mode described in the article is a Markove chain (fundamentally time invariant although the basic variables had been initially treated with a time rate differential) and consequently shall have the following expression:

$p(e_1, e_2, e_3 \ldots e_n) = p(e_1), p(e_2 | e_1), p(e_2 | e_3) \ldots . p(e_n) | (e_{n-1})$ --------(iv)
(Node determination -4)

where e is the clinical outcome or event and n trials are conducted to arrive at stochastic definitive and time invariant stationary.

$$H(Y) = -\zeta_{ij}(\mu_{ij})P_{ij}\log(P_{ij}) \text{ ----------(v) (Node determination -5)}$$

The rate of entropy in the stationary Markov chain is expressed above and builds the foundation of achieving the cluster strength of influences in the Heuristic grid.

The neural networks and the epochs are terminated at the stagnating rate of entropy and consequently define the nodes in the heuristic algorithms.

PROBLEM STATEMENT - FINDING THE ORIGINS OF MEDULLA BLASTOMA AND PREDICTING OUTCOMES ON PARAMETRIC ANALYSIS OF ANTENATAL CARE PROTOCOLS					
DOMAIN	SPECIFIC ELEMENTS OF RESEARCH	MATHEMATICAL MODELS	OUTCOMES SOUGHT IN THE RESEARCH	CLINICAL ASSUMPTIONS - NARRATIVE	IMPLEMENTATION COHORT AND ECOSYSTEM DEVELOPMENT
Antenatal studies of progression	Blood metabolism	Fourier analysis of data clusters	Precision limits for safe metabolic data and defining the potential benchmark measures for predictive analytics on medulla blastoma or related metastizing tumor regression in the CNS	ECMO analysis of the findings on metabolic quality could be an essential derivative for confirmig the findings	Blackstone Synergy - Sai cluster of hospitals shall evaluate the possibilities of technical tie-ups with EU / US leaders in cognitive research of the fetus, clinical analyses of fMRI and ECMO and finally the parametric hosts of big pharmaceutical research models
	Glucose metabolism	Fourier analysis of data clusters			
	Blood perfusion in the embryo and through the various stages of development of the fetus	Heuristics modeling of key clinical parameters to deduce the equalty of perfusion	Predicting regressive changes in perfusion that can form the basis for further aggregation of research with fMRI functionality on advanced clinical set-up	fMRI findings on perfusion, opacity of the cell and mapping the v/q parameters in the contextual comprehension of the perfusion quality in the CNS shall be the bedrock of predictive derivatives	
	Cognitive movements of the fetus	Heuristics modeling of key clinical parameters to deduce the equality of perfusion			
	Psycho-somatic mapping of the expecting mother				

Stochastic conditions for the Heuristic mode:

1. Epochs = 100,000
2. Data smoothing = exponential with power 2 for the pathological elements and logarithmic compression for the thoracic elements
3. R^2 = 0.44 for pathological elements and 0,38 for thoracic elements

PATHOLOGICAL - HEMATOLOGICAL GRID

Cluster strength > 0.91
Cluster strength > 0.73 </= 0.79

THORACIC VITALS

cluster strength of influence > 0.83
cluster strength of influence > 0.55</= 0.61

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Heuristics approaches can correct qualitatively the prognosis and the efficacy of the treatment protocols to save precious human lives