

# Understanding Behavioral Transformation of Resuscitative Subjects

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## **Abstract**

*Near Death Experience, it has been still a debatable phenomenon after so many research works done across the world. The scientific community is still harping about the phenomena and there is an extreme urge to unveil the relation of human behaviour with brain in cognitive resurgence occurring after the phenomena. There is also an existential impulse to associate the relation between the cognitive restructuring, behavioural change and Near-Death Experience (NDE). The post recovery phases usually quoted as Post Traumatic Stress Disorder (PTSD) generally indicates the negative impact caused by phenomenon like NDE. In an attempt to understand the actual aftermath and the relation between behavioural change and NDE, the author is proposing a NDE- Mixed-Method Design Protocol (NMDP). The protocol will be helpful in understanding and establishing the cognitive resurrection happening in the brains of NDErs and the repercussion of the phenomenon through a combination of Qualitative and Quantitative research techniques.*

**Keywords:** NDE, behaviour change, cognitive resurrection, NMDP, life style, Mixed method.

## **Introduction**

The modern science terms this behavioural aspect as post-traumatic stress disorder (PTSD). But in reality is it one of its own kinds? [1]. The NDErs magnitude of understanding life with an improved zest for life is enormous. They possess and exhibit great composure and found to be spiritual too [2]. There is huge shift towards specific psychological scale never before faced by them. Even more interesting some of the observations conclude that the people who have undergone this phenomenon tend to have a modified approach towards various issues like lifestyle, social vision, decision making. Many of them learn how to synchronize and command mind over body. There is no point in saying that NDE causes trauma, instead it enlightens ones inner conscious. There are studies even claiming there is a possibility of a brain shift. After NDE, a person possesses a counter-culture. Large organizations like Neurosky are extensively researching methods to mend mind and thought process happening in brain. The thought process is majorly responsible for the course of actions human beings tend to perform. A pattern can be evolved to sustain emotional equilibrium, which may be applied externally through therapy. In order to find whether a strong connection exists between NDE and the living appeal of the people after that phenomenon, a methodology is proposed here to go with.

## **Objectives**

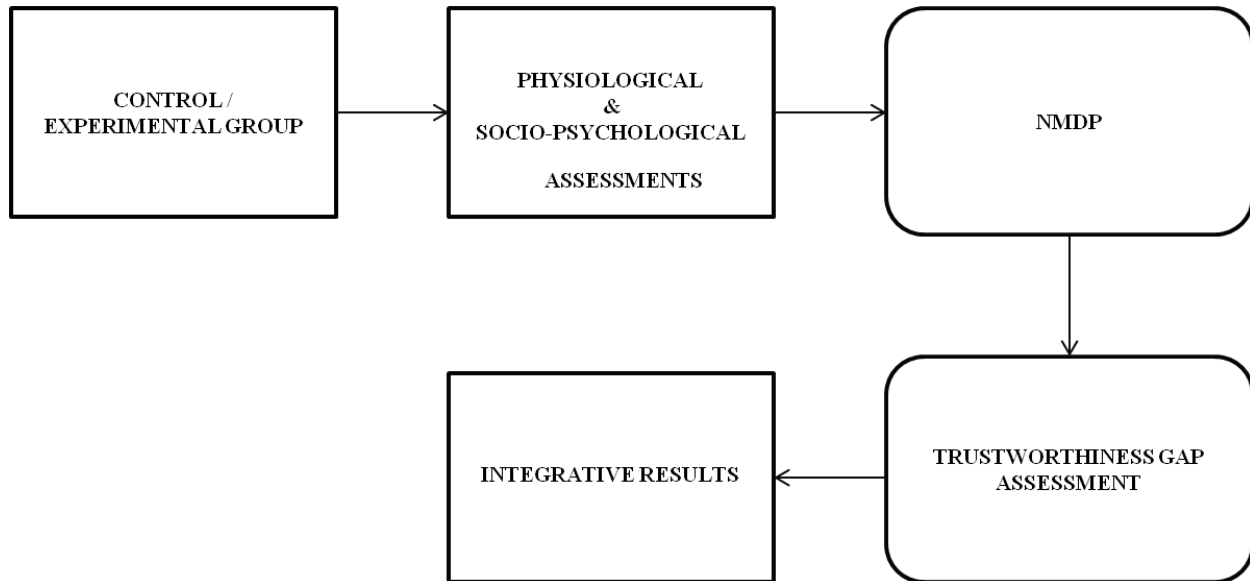
The aim of this study is to determine the mental health obstacles, challenges, and the behavioural changes exhibited in subjects after experiencing NDE. Taking the newly designed protocol as guide line susceptible strategies will be designed.

The explicit objectives are

- to determine the relation between Cognitive resurrection and NDE.
- to explore the positive traits exhibited by NDErs' after the Phenomenon.
- to understand the Gap between Medical science and Metaphysics while studying NDE.

### Methodology

The current design is based on Mixed Methods convergent parallel design approach giving us the broad way understanding both the quantitative and qualitative information's. The complete flow of study is categorized into four stages.



**Figure 1.** Design Flow

### Group Selection

In order to get the real impact of the phenomenon, two groups will be identified based on a random sampling methodology. The people are chosen by a cross sectional survey. The sampling of people is divided into two categories namely control group and Experimental group. The Control Group will be common people who have not undergone NDE. The Experimental Group will be the ones who have undergone NDE. The Experimental Group are chosen with respect to various testimonials claims and associations like IANDS where the convergence of NDE people occur. After getting the informed acceptance consent and ethical clearance, study will be carried out. The parameters are defined on what basis the sampling should be done across two groups. The sampling parameters are some common scaling factors such as i) Age Group ii) Health Issues iii) BMI Scale iv) Socio-Cultural Environment etc. The parameters are chosen in such a way that both the cases are the same except absence/presence of Near Death phenomenon.

### Assessments

The second phase of the flow design will be the analysis done on the basis of sequence of physiological and socio-psychological factors. Both the groups will be given a set of questionnaires which is categorized into i) Emotional Component ii) Cognitive component iii) Psychological component[3]. The output of the questionnaire will be the input of the assessment tool. The control group and the experimental group are assessed by the standard measures

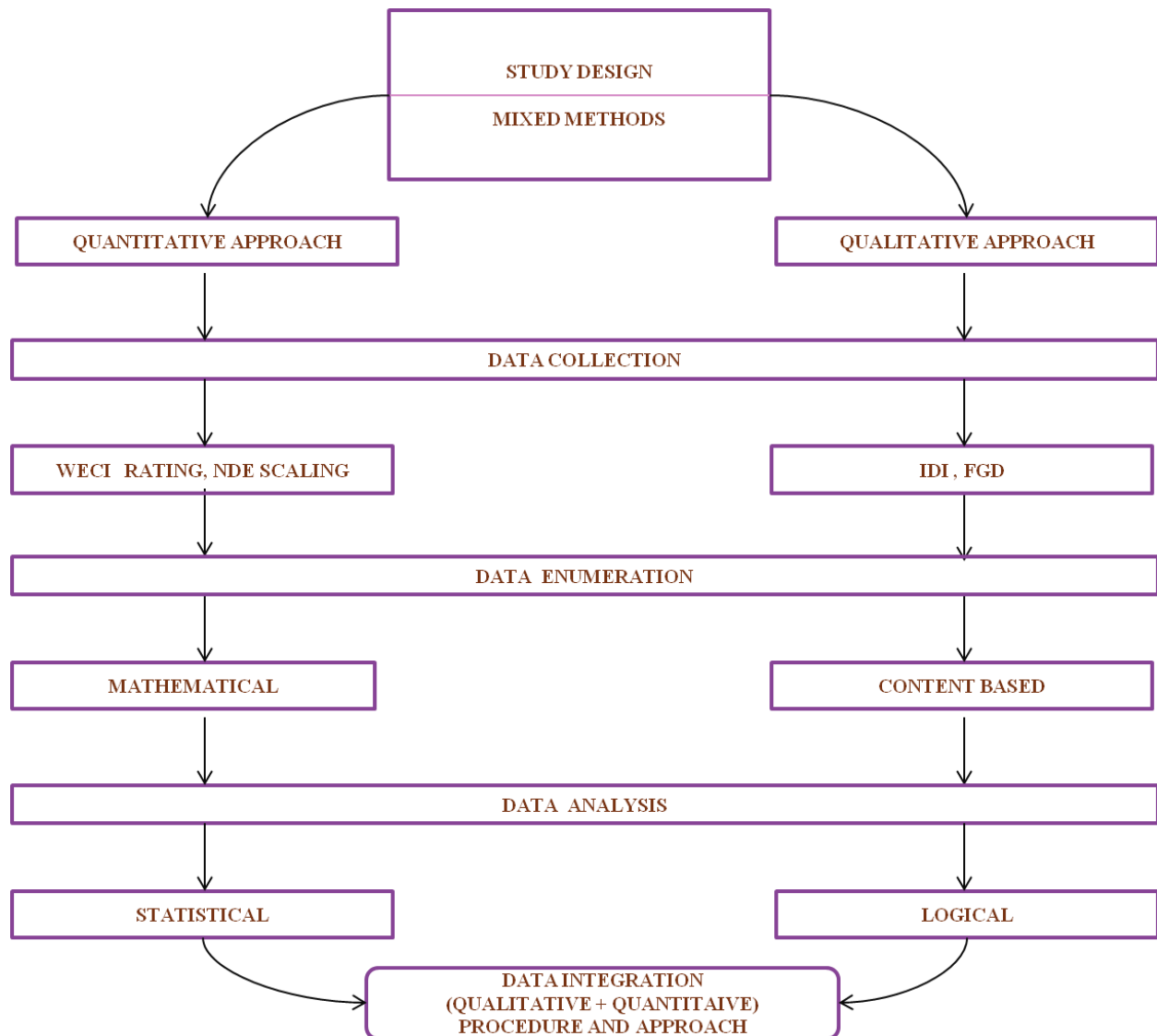
like In Depth Interviews(IDI), Focussed Group Discussions(FGD). The result is extracted as raw data from IDI & FGD and analyzed for various interpretations according to requiring standards.

*Categorizing NDE*

The biggest challenge one may visage is justifying the identified NDErs.In that case we need a reliable scientific mechanism to perform that operation. There are 21 affective states exhibited by NDE people. From states like a) Thought Content b) Perceptual Content are given increased weightage. The Weight Core Experience Index(WCEI)is taken on basis of arbitrarily weighted items to assess NDE scale [4]. Indicators which contribute to temporal orders like peace and contentment, transcendental feel are considered as decisive factors for both assessments of NDE as well as to signify the positivity felt. The triangulation of data is done over the techniques in order to remove the ambiguity of the data sets.

*Structure ofNMDP*

There are four features which determine the success of any protocol. StudyDesign, Data Collection, Data Analysis and Data Interpretation.NMDP is a systematically designed protocol to address the challenges faced. The major design is based on Convergent Parallel System Design.



**Figure 2.** NMD Protocol(NMDP)

The third phase of the design is the implementation of the protocol itself. Here the study incorporates two divisions i.e.) Non-NDErs' and NDErs'. The method is applied over both the categories of people. Convergent Parallel System Design is an approach where the Quantitative and Qualitative approach towards the same data is executed. After processing both perspectives, a systematic mean of integrating the two approaches is defined in order to yield the result.

#### *Quantitative Approach*

A Custom WECEI (Ring's) which was designed and implemented by Greyson is taken for the analysis. The Association between the states like a) Thought Content b) Perceptual Content is evaluated by Chi-Square test. The Average of the obtained data is presented by  $\bar{x}$  SD. Pearson's product moment correlation coefficient ( $\rho$ ) is taken as 0.1 as level of significance. A Custom designed Greyson's NDE scale is adapted, which is classified into three psychological clusters i) Cognitive Component ii) Affective Component and iii) Transcendental Component [5,6].

After enabling the association among these states, the data obtained is getting enumerated. The mean scores for the both the components are drawn. The Data is analyzed statistically using software's like IBM SPSS to give the data a meaningful mathematical association. The mean values are analyzed also by regression.

#### *Qualitative Approach*

Simultaneously the qualitative component is carried out through FGD / IDI with respect to Non-NDErs' and NDErs'. The Non-NDErs' will be screened with both IDI and FGD. The debate topics for FGD can be some general aspects such as opinion about living style, quality of life etc. The IDI with NDErs' may give us the minute sensitive details in the process of understanding the phenomenon. Both the FGD and IDI are recorded for the two divisions under the supervision of a moderator and they are transcribed as raw data.

The data from that raw abstract is derived and presented in accordance to the content to be presented. The data extracted is analyzed carefully and their psychological persona is recorded. The phenomenon vs the behaviour modification if any is looked into precisely. A logical analysis is also done with the available data and their relevance to each other. Hence more or less the analysis may be theme oriented in this phase.

#### *Data Integration*

Once both the procedures are adapted concurrently, the statistical analysis and the logical analysis are integrated in a scientific manner such that the representation of both quantitative aspect and the qualitative approach are equally weighed. The integration will more towards the procedure and the product of the combination of the two approaches. This step helps in finding a common balanced approach of handling the result of both approaches, which enables and ensures that there exists no gap or minimal gap in data interpretation.

### **Results and Discussion**

#### *Trustworthiness / Gap Assessment*

The fourth phase of the design is the portion in which the credibility of the process undergone is verified. The method handled in order to verify this is 'Data Triangulation'. It is one of the methods where the association of data in each other's perspective is analyzed and verified. Hence there exists uniformity in presentation of the contents and validity is strengthened. The gaps if any identified are rectified by repeated measures of stabilizing causal link among them. By ensuring these measures the design becomes robust and flexible to adapt and adjust the changes. Hence the trustworthiness of the entire flow becomes justified. The integrated results are tabulated to arrive at a deciding point

of the study. The study will be opening a new portal of knowledge pool which will enable us even to fight against neurological disorders [7].

### **Conclusion**

An attempt to address the NDE phenomenon and its consequential behavioural changes in subjects with respect to self and the rest is done through NMD Protocol. The Protocol will be helpful in understanding a phenomenon like NDE, where there exists a problem in enumeration of data, quantifying emotions and feeling will be extremely difficult and it is next to impossible to get functions of brain when the person is undergoing that moment. In order to remove those complexities a mixed method approach is taken to establish the link between the NDE and the emotional balance attained by the NDErs'. Energy which exists in one or the other form is a constant factor which drives the life. Energy causes Actions, Action motivates to develop Habit. Habit turns to Behaviour, Behaviour is Life. Once we understand this sequence the quality of living in any being is improvised. In this paper an effort is taken to understand the association between the cognitive resurrection and NDErs'. It is believed that majority of the people who have undergone NDE have claimed that they are feeling more positive after that phenomenon. How it will be if there exists a society without distress? What will happen if the behaviours like self-containment is transferrable to other who is lacking it? A Combined Hybrid Therapeutic Model may lead to achieve that. The major outcome expected out of this study is a Scope for Behavioural Transportation amongst people that may lead to self-fulfilled society.

### **Conflict of Interest**

The author declares that there is no conflict of interest.

### **Ethical considerations**

This article does not contain any studies involving human participants performed by any of the authors.

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