

## On the Human Species Re-Engineering

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### Abstract

An art of artificial feeding human infants has been evolved since 1860, many different ways of feeding infants have been introduced till 1960. In 1960, a precursor form of modern infant formula was introduced and since then the formula makers have been fortifying formulae with additional substances to mimic the composition of human breast milk. This implies that human infants who were fed formula were brought up without all the benefit of the nutrients that comprised human breast milk. Brains of human infant were established to develop within initial few years after birth. The effects of artificial feeding formula on the brains of infant as compared with those fed human breast milk remained a topic of great interest. So as experiments of human species re-engineering has begun and the consequences of this human experiment are less than desirable.

**Keywords:** Infant brain; Breast milk; Modern infant formulae; Effect on neurodevelopment

### Introduction

Since advent of artificial feeding of human infants which rooted 1860, there have been many trials and errors in infant feedings. Current form of artificial formula feeding started in 1960, at which Similac was introduced, soon after that Enfamil. Since introduction of the early formulae, there have been numerous attempts to fortify the formula to mimic the compositions of human breast milk. It is certain that there will be much more modification of formula in future. By feeding formula to human infant instead of breast milk, it seems likely that we probably distorted the natural growth and interfered with the physiology and compositions of human brain that is designed for proper human brain development [1]. The author has reviewed the possible implications of these alterations on the society and the effects on the human species re-engineering.

Brains of human infant develop in the early age, and reported infant brains develop approximately 85% of adult brain by the end of first birthday. Rest of brain is completed in the coming few years. It is believed that none of the feeding formula can have all the nutritional composition comparable quantitatively or qualitatively, to the human breast milk. This implies that brains of human infants who were fed formula are different in composition from that of breast fed infants.

### Discussion

Many things we do have often unrecognized defects. One of those botched human thinking resulted in feeding formula to the human infants. By doing so, we have created infant brains that is lacking some of nutritional elements for proper development of the human brain. However, earlier reports suggested that long-chain polyunsaturated fatty acids were to play a vital role in brain development processes including cognitive and visual acuity. However, prenatal and post natal exposure to environmental contaminants through breast milk and social status of the mother were found to affect neurodevelopment [1].

Davies reported human infants fed breast milk had plasma osmolality of 284.3 mosm/kg at age of three month and infants who were fed formula, had plasma osmolality 293.8 mosm/kg. He also observed when infant formula feedings were supplemented with solid foods in the first three month of age, plasma osmolality increased further higher to reach 297.1 mosm/kg level [2]. Infants who were fed formula had plasma osmolality 9.5 mosm/kg higher than that of breast fed infants. Such an evidence would mean a 10 year old body with mental age of only three months. This indicates the contents of proteins in the formula are unacceptably high. Human breast milk has 1.3-1.5 gm/dl of protein and cow's milk has 3.5 gm/dl of protein. This explains why formula fed infants are more physical and active and often they are bigger and heavier than that of their counterpart. Nelson's Textbook of Pediatrics reports serum osmolality of 275 mosm/kg in child and 295 mosm/kg in adult [3]. Osmolality is not just numbers, osmolality increases with age naturally. When we consume large molecular weight foods like milk and animal based proteins, osmolality rises higher along with biological age.

Earlier studies also demonstrated when infant's hogs were fed their mothers' milk, they behaved much smarter cognitively than the hogs who were fed artificially. Such a report is based on the discussion from "national geographic wild channel", entitled hog genius. Hahr reported earlier that why cow's milk formula fed infants are heavier and bigger than infants who were fed human breast milk [4]. You are feeding human infants with cow's milk that is intended to feed infant cow. Infant cow's growth rate is much higher than that of human infant.

Osmolality is controlled by hypothalamus and although it appears that medical community has largely ignored the effects of osmolality change in human health. When osmolality is low we grow and become bigger and when osmolality is very high, we become old and we die. Osmolality is elevated when we consume heavy molecular foods, and we act like older person physically, but mental age has not matured accordingly. This discrepancy between biological age and mental age have caused to change the world unknowingly. Simply feeding formula to our infants that raised plasma osmolality caused our young behave differently. This author personally believes advent of bold Rock music in the 1960's are the results of feeding other than human breast milk and following that, peoples become restless and self-mutilating body

piercing and tattoo cultures were emerged. More recently the mixed Marshall arts are stemmed from feeding infants other than human breast milk and consuming large amount of animal based proteins.

I have often wondered why some young person goes to the school and opens fires killing our innocent young children? These young peoples may have brains that are differ from the brains of young who were fed human breast milk, and may have less stability in the presence of emotional and physical stress? Perhaps feeding other than human breast milk may have contributed to change the nature of these young peoples' behavior.

I am further concerned that some companies are producing genetically engineered foods for human consumption. Only recently FDA approved genetically engineered meats to be marketed mass production without proper labels and studies. What qualifications do they have that they make such decision for the sake of people's life? Perhaps, motivated by greed.

The nation is struggling to invite world's students of mathematics and science, nation of 300 million peoples cannot provide enough young persons for that purpose. Young people's become less patient and are looking for easy way out by studying Arts, instead of Sciences.

Population expansion for the purpose of human greed will not save the human race and earth, but they are on the way. All of these

changing events are consequences of feeding our infants other than human breast milk? This author is one of those individual who believes that observation. Are we headed toward for eventual human race self-demises? I have wandered many times in the past what have we done wrong in raising our young peoples that they become less trust worthy, more pleasure seeking, less patient and seeking only for instant gratifications? I am intended to say that perhaps feeding other than human breast milk may have contributed to change the nature of our young peoples' behavior.

I am hoping by writing this manuscript for the young mothers and the fathers of earth will make right choice for betterment of human race and earth.

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