

# Comfortable fetal life, where fetal education was mandatory

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## Abstract

The foetus needed no pulmonary respiration and no food taking before birth under the functions of placenta, while pulmonary respiration and food taking after delivery, also intrauterine life was supported by constant maternal temperature. There are many stresses after birth, thus, a foetus should be educated on postnatal life, but how? As the foetus is able to listen outside sound, it may be possible to be educated by the maternal speech on postnatal life. However, fetal hearing function was very particular, namely, fetal response was tested with 1,000, 500 and 250 Hz standard generator sounds, where fetal response to 80 and 60dB sounds was fetal movement then heart rate increase. The foetus clearly responded to 80 dB, 1,000 Hz sound and 12 weeks later decreased 60 dB, significantly. However, 500 and 250 Hz sound decreased but insignificantly, namely, the foetus clearly listened 1,000Hz sound, but insignificantly to the sound of adult conversation. The results confirmed it is mandatory to speak in 1,000 Hz voice, in fetal education, namely, a voice changer to 1,000 Hz is mandatory.

## Introduction

Since newborn babies cried persistently and it was unable to stop by the parents, where the reason was unknown in a TV program. The author estimated it to be caused by their pleasant memory of comfortable life in maternal uterus, lung respiration was unnecessary and oxygen was supplied by maternal arterial blood, not-necessary to take foods as the nutrition was also supplied by maternal blood with the placenta, no need of diaper, and water is supplied by amniotic fluid. The temperature was constant in the uterus. There were various stresses after the birth. These changes would develop continuous cry of neonates.

## Methods, materials and results

Fetal response to sine wave sound of signal generator using a loud speaker on pregnant abdomen, of which frequency was 1,000, 500 and 250 Hz (Herz) and intensity was 60-80 dB measured by an audiometer 1 meter apart from a loudspeaker to search the possibility of any communication with intrauterine foetus. The pregnancy was middle to late stages of pregnancy. Fetal response to the 2 sec 80 dB 1000 Hz sound was fetal movement and fetal heart rate (FHR) acceleration of actocardiogram in 28 weeks of pregnancy and 60 dB in 40 weeks, namely, fetal sound sensitivity increased in late pregnancy in 1,000 Hz. There was the same tendency in 500 and 250 Hz sound, but the difference was insignificant. Fetal response was clear in 1000 Hz sound but, it was unclear in the conversation frequency sound. The foetus was also stimulated by an intensity of photographic flash light at maternal abdomen close to fetal head, where the response was fetal movement and FHR acceleration [1,2].

## Discussion

The new-borns cried because it was unable to go back comfortable fetal life, where a foetus does not respire with lung, does not need to drink milk in the placental circulation. Many stresses stimulate new born, including the temperature change. Thus, the foetus may

be educated with changing process after the birth. Is fetal education possible? It may be possible if adults explain postnatal life. However, there is the difficult hearing of common conversation, as the foetus is sensitive to 1,000 Hz sound, but not common conversation frequency with 500 Hz or low sound [1]. Thus, fetal education will be unable. There is, however, a possibility to change adult voice to 1,000 Hz sound by using a voice changer, it may also be effective to educate new born baby, whose hearing sensitivity may be similar to a foetus.

## Conclusion

Only way to stop endless cry of neonates who wish to return to maternal uterus will be the use of voice changers namely, one from 500 Hz to 1,000 Hz in fetal education.

## References

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