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COMMUNICATION BETWEEN

MOTHER AND INFANT

(fetus or newborn)

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AIMS

DO FETUSES AND NEONATES RECOGNIZE THEIR MOTHER IS ADDRESSING THEM ?

IS VOICE THE ONLY MEANS OF COMMUNICATION BETWEEN MOTHERS AND BABIES ?

PROCEDURE

METHODS OF ANALYSIS : MEASURES OF HEARTH RATE (HR) VARIABILITY

3 EXPERIMENTAL SET UP with SILENCE period BEFORE and AFTER (each step duration = 5') :

1. MOTHER TALKS ABOUT THE BABY TO AN ADULT

2. MOTHER COMMUNICATES WITH BABY

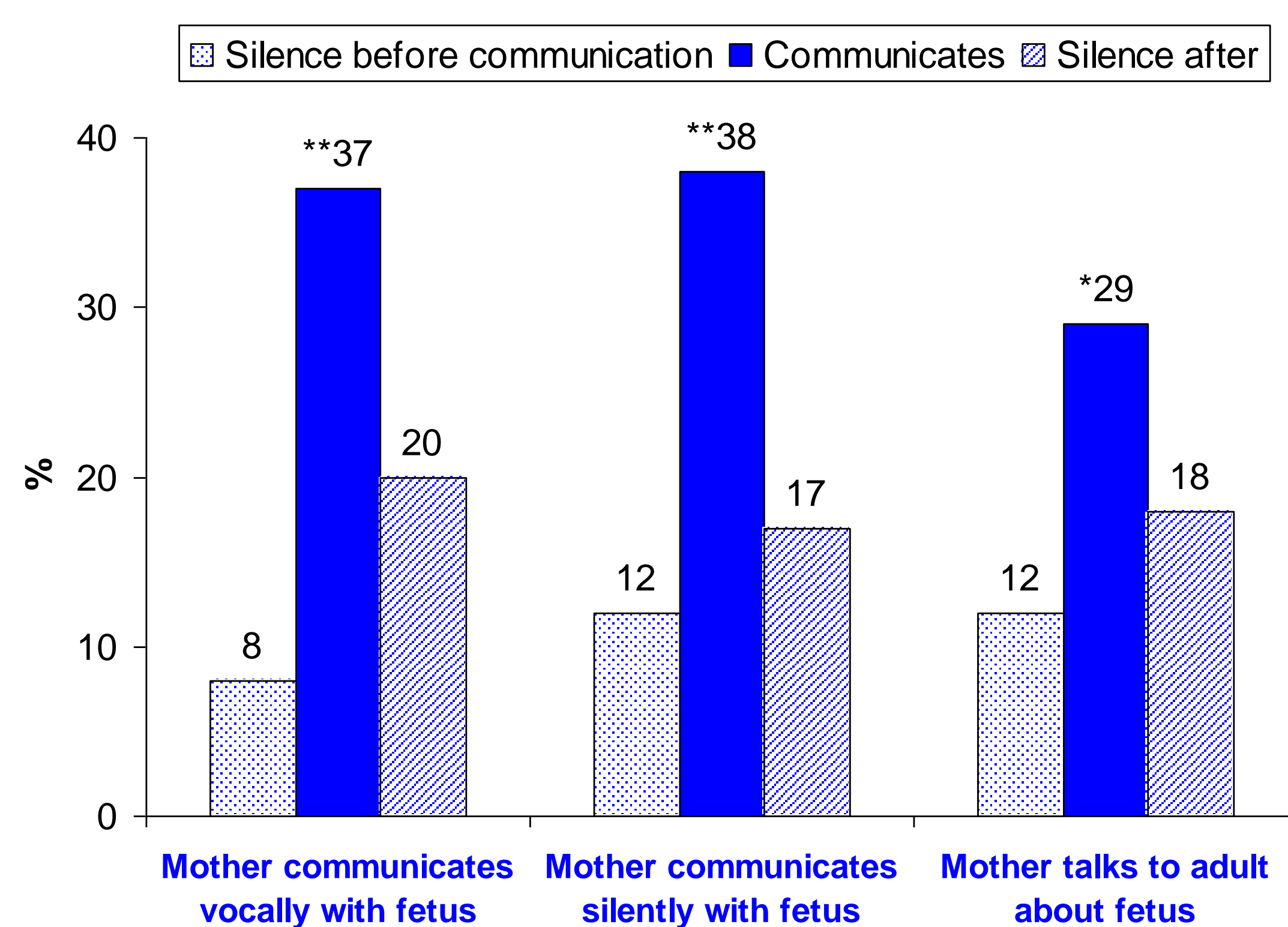
A) VOCALLY

B) SILENTLY

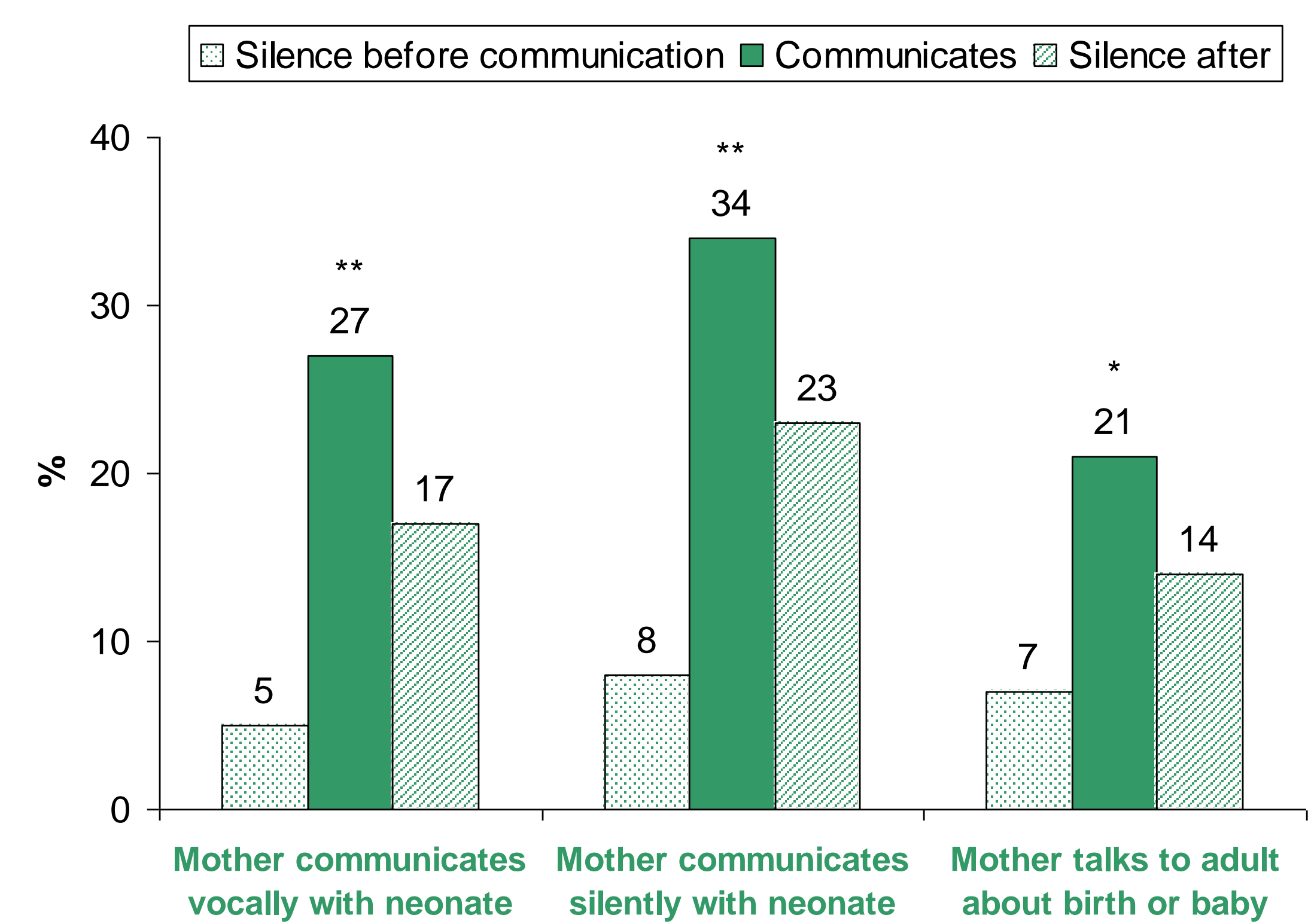
RESULTS

1° VISUAL CLASSIFICATION OF HEARTH RATE VARIATIONS DURING STIMULI

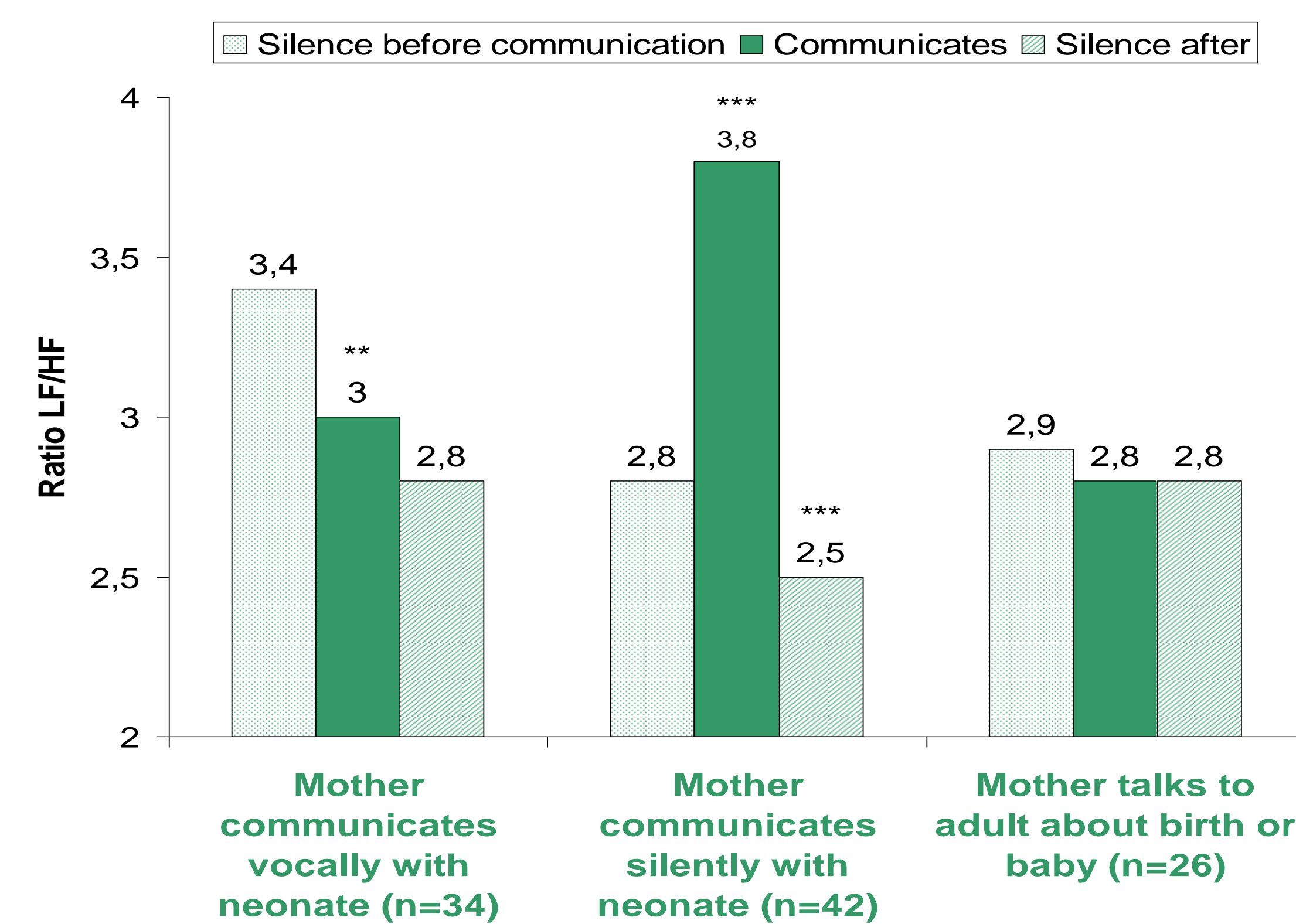
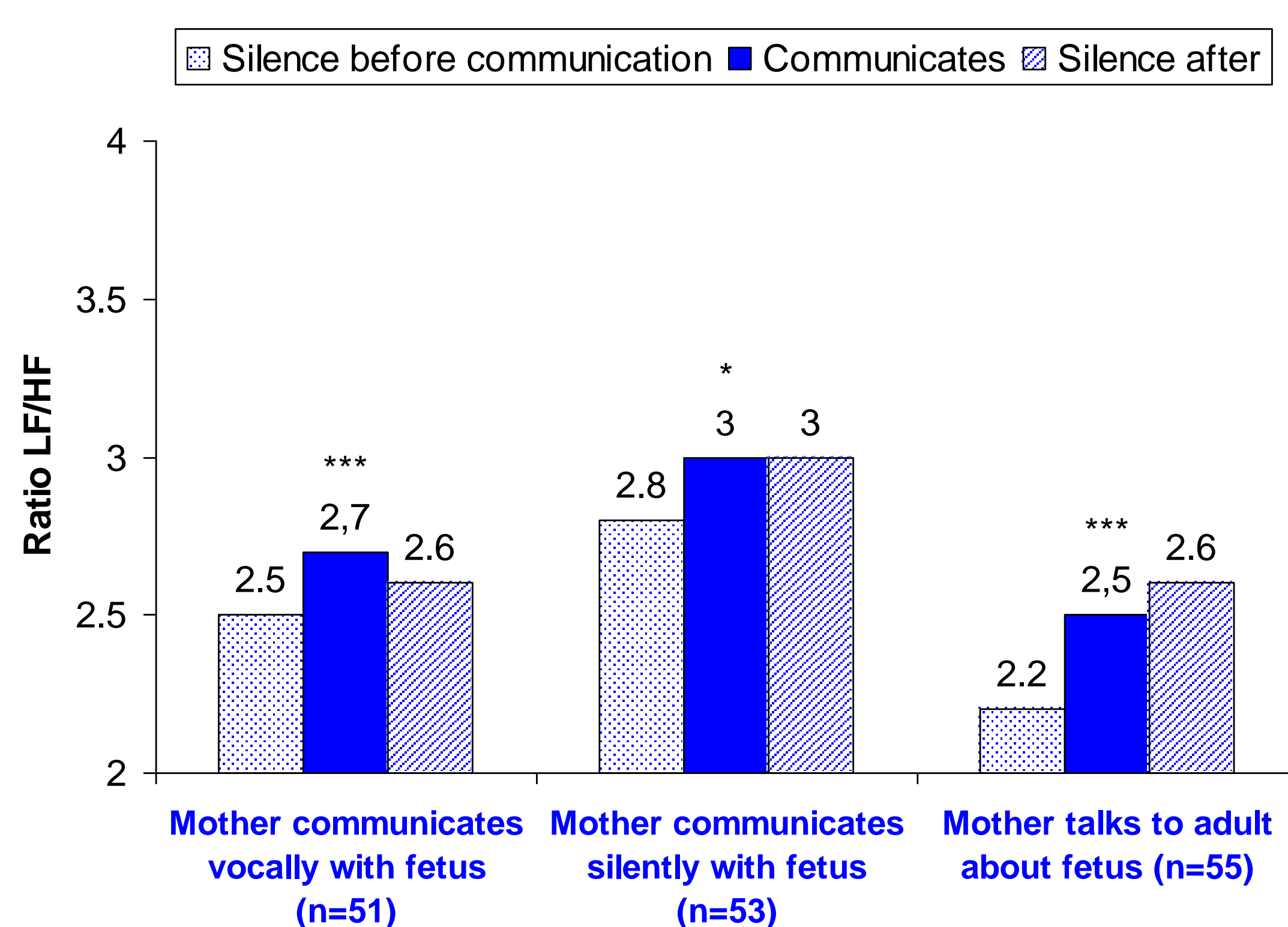
(Fetus : n = 180 subjects)



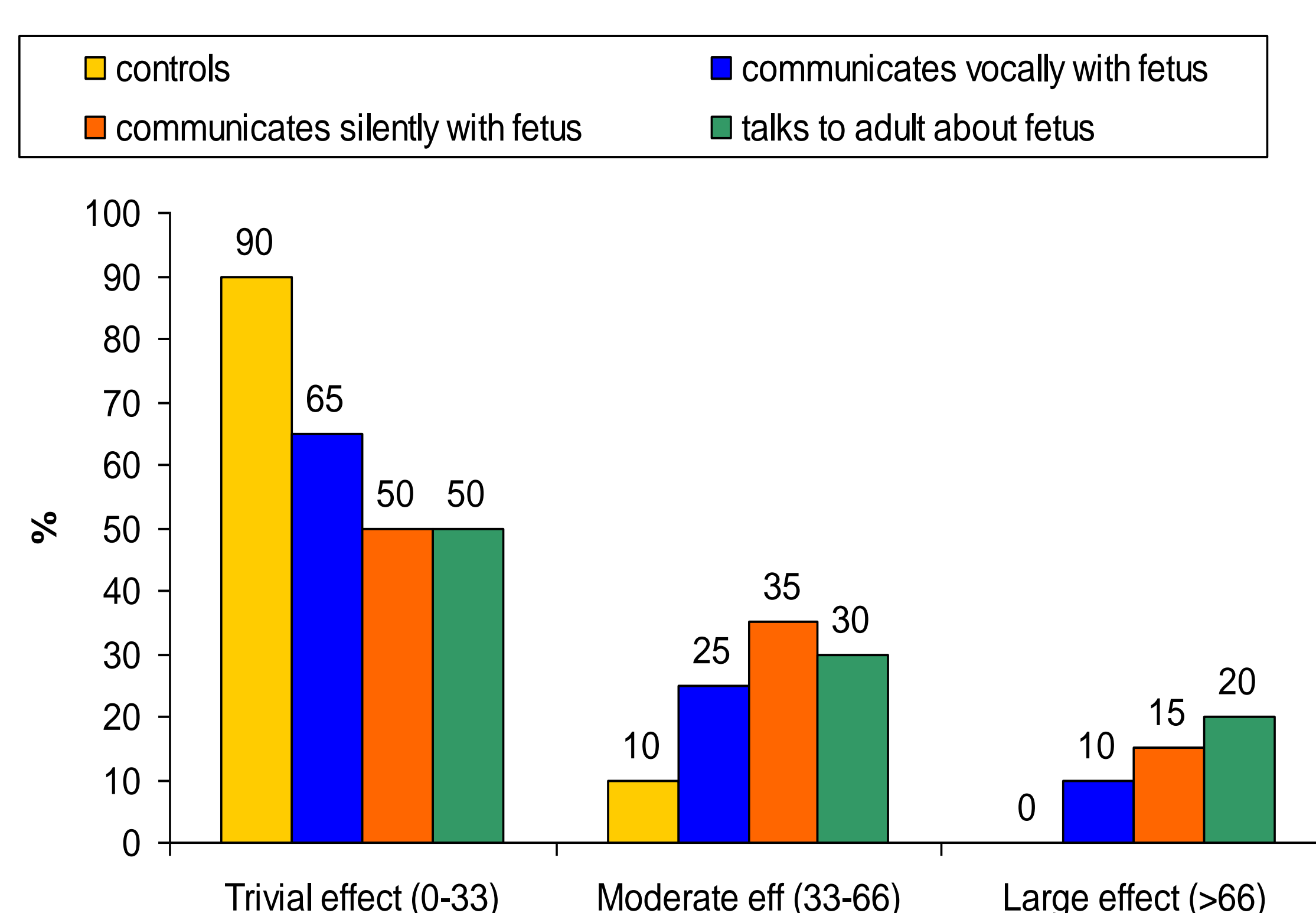
(Neonates : n = 140 subjects)



2° FOURRIER ANALYSIS OF HEARTH RATE VARIABILITY (1st. series)



3° LEVEL OF PRACTICAL SIGNIFIANCE OF THE DIFFERENCES BETWEEN SILENCE AND COMMUNICATION PHASES (2nd. series : n= 100 subjects)



CONCLUSION

FETUSES AS WELL AS NEONATES :

A) REACT DIFFERENTLY WHEN MOTHER ADDRESSES THEM, THAN WHEN SHE ADDRESSES AN ADULT

B) REACT SIMILARLY WHEN MOTHERS ADDRESSES THEM VOCALLY OR SILENTLY