.11

BRIEF global executive composite

Mother’s educational level

Hearing loss exposure

.53

.83

.64

-.14

-.10

.65

.55

-.03

.30

-.62

.35

-.38

Pure tone audiometry (best ear)

Strengths & difficulties total score

Snorer or non-snorer

Figure 1: Structural equational model illustrating relationship between presence of snoring, history of hearing loss and parent report of executive function behaviours (BRIEF) and general behaviour (SDQ). Pathways in bold, are significant at p<.05. This model suggests three points of interest :(i) The relationship between snoring and executive-function behaviour is explained by hearing loss exposure. (ii) However, the relationship between snoring and general behaviour does not arise through hearing loss exposure (iii) Snoring is associated with a single time point hearing loss assessment (audiometry) but this does not add anything to the relationship between snoring and general behaviours nor executive function behaviours.