**Appendix 1.** Conceptualisation of matching quantitative and qualitative questions

Quantitative questions (questionnaire)	Qualitative questions (interview)	
How confident do you feel in providing education for:	Explain how you provide nutritional education to specific groups?	
vegetarians, vegans?	e.g. vegans, vegetarians?	
How confident do you feel in providing education for:	Do you provide nutritional education specific to cultural food	
cultural food choices, ethnic minority?	preference? Could you give any examples?	
How confident do you feel in providing education for		
complex medical conditions?	Conditions which require a referral/ when do you make a referral?	
Do you have a dietitian's services at your hospital?		
Do you make referrals to the dietitian?		
What information sources do you use as the basis for	Do you use additional materials such as brochures?	
providing nutrition advice?		

**Appendix 2.** Examples of extreme case analysis with interpretation

Extreme case analysis	Knowledge score	Confidence score	Comment	
Quantitative: Overall knowledge and confidence: A positive correlation was found between midwives' knowledge and confidence				
score over three-time points measurement, with a highly statistically significant difference ( $p < .007$ ) during the pre-questionnaire				
High level score	(9/12) questions	(44/45) questions	Positive correlation	
	Qualitative follow-up			
	I guess probably with women from different cultures so that		Outcome: High level of	
	would probably be the big thingSo, I thinkthere's a little bit of a		knowledge and confidence	
	downfall with women from different cultures and women that are a		helped midwife to identify what	
	vegan as well. So, I think after having been to your talk I probably		further knowledge needed	
	would give different advice now [MW6]			
Low level score	(2/12) questions	(11/45) questions	Positive correlation	
	Follow-up		Outcome: Some midwives still	
	This participant did not complete the following education and other		require general and advanced	
	two questionnaires or interview		healthy eating education.	