

		HANDLERS																							
		ranks																							
		KM	KN	NQ	PO	HQ	LL	NY	PS	SK	ST	WK	AL	CO	DD	LS	LY	MH	ML	MM	PA	PH	PT	RS	
		1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	
INFANTS/ Mothers	ranks																								
KG/KM	1	0	0	4	1	1	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	2	1	
HZ/HQ	2	13	23	7	5	0	2	1	1	5	6	18	1	6	3	0	1	4	1	0	9	0	10	1	
LC/LL	2	4	0	1	4	3	0	2	1	1	5	3	1	0	0	1	0	2	1	1	1	0	1	6	
NK/NY	2	12	4	10	5	9	1	0	2	3	11	7	8	6	3	1	0	2	1	1	5	3	2	3	
PZ/PS	2	1	3	4	1	0	0	0	0	0	2	0	0	2	0	0	0	3	0	1	1	0	3	0	
CY/CO	3	2	2	7	3	1	1	2	0	3	12	16	3	0	2	0	0	2	0	0	1	0	0	2	
LZ/LS	3	1	0	3	2	1	1	0	0	2	0	5	2	2	2	0	1	9	2	0	0	0	3	2	
MQ/ML	3	0	1	5	2	2	4	2	2	2	4	5	7	5	2	1	1	7	0	4	4	1	0	2	
MW/MH	3	3	0	7	4	2	3	0	5	2	8	13	7	14	2	0	0	0	4	0	8	0	13	6	
MX/MM	3	2	3	4	5	0	0	0	0	0	5	2	9	3	1	0	0	2	0	0	1	2	2	3	
PK/PH	3	2	0	6	4	3	4	1	0	0	15	10	8	5	1	0	3	1	1	6	3	0	7	5	

Table 1: Data matrix giving the total number of interactions by handler (columns) and infants (rows) over the course of the observational period. Boldface numbers give ranks of handlers or infants, with 1 being High ranking, 2 being Mid ranking, and 3 being Low ranking. Each handler and infant have a two-letter ID, infant ID's are separated by their mother's ID with a /. Horizontal and vertical lines separate the rank categories.

		HANDLERS																							
		ranks																							
		KM	KN	NQ	PO	HQ	LL	NY	PS	SK	ST	WK	AL	CO	DD	LS	LY	MH	ML	MM	PA	PH	PT	RS	
		1	3	1	3	3	3	2	2	3	1	3	2	2	3	3	1	3	3	3	2	2	3	2	
INFANTS/ Mothers	ranks																								
KG/KM	1	0	0	4	1	1	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	2	1		
HZ/HQ	3	13	23	7	5	0	2	1	1	5	6	18	1	6	3	0	1	4	1	0	9	0	10	1	
LC/LL	3	4	0	1	4	3	0	2	1	1	5	3	1	0	0	1	0	2	1	1	1	0	1	6	
NK/NY	2	12	4	10	5	9	1	0	2	3	11	7	8	6	3	1	0	2	1	1	5	3	2	3	
PZ/PS	2	1	3	4	1	0	0	0	0	0	2	0	0	2	0	0	0	3	0	1	1	0	3	0	
CY/CO	2	2	2	7	3	1	1	2	0	3	12	16	3	0	2	0	0	2	0	0	1	0	0	2	
LZ/LS	3	1	0	3	2	1	1	0	0	2	0	5	2	2	2	0	1	9	2	0	0	0	3	2	
MQ/ML	3	0	1	5	2	2	4	2	2	2	4	5	7	5	2	1	1	7	0	4	4	1	0	2	
MW/MH	3	3	0	7	4	2	3	0	5	2	8	13	7	14	2	0	0	0	4	0	8	0	13	6	
MX/MM	3	2	3	4	5	0	0	0	0	0	5	2	9	3	1	0	0	2	0	0	1	2	2	3	
PK/PH	2	2	0	6	4	3	4	1	0	0	15	10	8	5	1	0	3	1	1	6	3	0	7	5	

Table 2: This is the original data table but with a random permutation of the infant/mother ranks and the non-mother ranks.

		HANDLERS																							
		ranks																							
		KM	KN	NQ	PO	HQ	LL	NY	PS	SK	ST	WK	AL	CO	DD	LS	LY	MH	ML	MM	PA	PH	PT	RS	
		1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	
INFANTS/ Mothers	ranks																								
KG/KM	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0		
HZ/HQ	2	7	5	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	1	0	2	0	3	0	
LC/LL	2	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	1	0	
NK/NY	2	2	0	0	0	0	1	0	0	1	0	0	1	2	1	1	0	1	0	1	0	1	1	1	
PZ/PS	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
CY/CO	3	0	0	0	1	0	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	
LZ/LS	3	0	0	0	0	1	0	0	0	1	0	1	2	1	0	0	0	3	0	0	0	0	1	0	
MQ/ML	3	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	1	3	0	1	3	0	0	0	
MW/MH	3	0	0	0	0	1	0	0	1	0	0	1	0	7	0	0	0	0	2	0	1	0	2	0	
MX/MM	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	
PK/PH	3	0	0	1	2	0	1	1	0	0	0	1	2	2	1	0	1	0	1	0	1	0	4	0	

Table 3: Successful interactions.