

Contents

Introduction	xv
1. Contributions of Human Infants to Caregiving and Social Interaction	1
<i>Richard Q. Bell</i>	
Contribution of the young to parent life-support and protection activities	2
Contribution of the young to the social interaction system	7
General principles	12
Summary	15
References	16
2. An Interactional Approach to the Mother-Infant Dyad	21
<i>Michael Lewis and Susan Lee-Painter</i>	
Models of interaction	21
Method	28
Levels of data analysis	30
Results	34
Discussion	45
References	47
3. The Origins of Reciprocity: The Early Mother-Infant Interaction	49
<i>T. Berry Brazelton, Barbara Koslowski, and Mary Main</i>	
Ethological description of early mother-infant interaction	49
Observations	53
Cyclical nature of the interaction	59
Mother's role	64
Communication with neonatal infants	67
Discussion	68
References	75
4. Variability of Growth and Maturity in Newborn Infants	77
<i>J. M. Tanner</i>	

Variation in birth weight and length	78
Variation in physical maturity at birth	89
Variation in shape and body composition	97
Summary	99
References	99

5. The Effect of the Infant's State, Level of Arousal, Sex, and Ontogenetic Stage on the Caregiver **105**

Anneliese F. Korner

Effect of the infant's state of arousal on the caregiver	105
Effect of the infant's sex on the caregiver	110
Effect of the infant's ontogenetic stage of development on the caregiver	114
Summary and conclusions	117
References	118

6. Organization of Sleep in Prematures: Implications for Caretaking **123**

C. Dreyfus-Brisac

Sleep states in premature and term infants	123
External influences on sleep of prematures	129
The premature and its environment	132
Influence of prematurity on late organization of sleep	134
Discussion and conclusion	135
References	137

7. Developmental Changes in Compensatory Dyadic Response in Mother and Infant Monkeys **141**

Leonard A. Rosenblum and Kenneth P. Youngstein

Caregiving in nonhuman primates	141
Initiation of maternal caregiving	142
The infant's elicitation of caregiving	143
Responses to dead infants	144
Infant characteristics and maternal caregiving	145
The response to experimentally debilitated infants	146
Results and discussion	151
A theoretical model of compensatory dyadic response	158
References	160

- 8. Some Factors Influencing the Attraction of Adult Female Macaque Monkeys to Neonates** 163
Gene P. Sackett and Gerald C. Ruppenthal
- The self-selection circus test 164
 - Normative studies: Validation of the preference technique 165
 - Effects of the adult female's rearing history 169
 - Conditions under which the mother reared her infant 172
 - Effects of confined rearing space 177
 - Effects of infant's age at separation 178
 - Effects of aging 180
 - Summary and conclusions 184
 - References 185
- 9. Mother and Infant at Play: The Dyadic Interaction Involving Facial, Vocal, and Gaze Behaviors** 187
Daniel N. Stern
- Developmentally unique aspects of gaze and some early functions of gaze 188
 - Play activity between mother and infant 189
 - Method 190
 - Results 191
 - Discussion 206
 - Summary 210
 - References 211
- 10. Blind Infants and Their Mothers: An Examination of the Sign System** 215
Selma Fraiberg
- Self-observations 215
 - The sample 218
 - Observational procedures 218
 - The absence of an eye language 220
 - The smile language 222
 - The absence of differentiated facial signs 224
 - The hand language 225
 - The vocal dialogue 229
 - The achievement of human bonds 231
 - References 232

11. Social Responses of Animals to Infants with Defects	233
<i>Gershon Berkson</i>	
Abnormal animals in natural populations	234
Social responses to defective individuals	235
Responses of monkeys to infants with visual defects	
237	
Conclusions	246
References	248
Author Index	251
Subject Index	257