

How does Stress affect Maternal and Paternal Perceptions of Relationship Strain after Preterm Birth?



Mothers (n=437)

Alinda Reimer¹, Jan Hoffmann¹, Laura Mause^{1,} Anna Hagemeier², Nadine Scholten¹

Background

Strain on couple relationships is associated with lower well-being, mental disorders, and depression. As premature birth is known to pose stress to parents, this study explores whether relationship strain comes to pass within mothers and fathers with a premature infant in a neonatal intensive care unit (NICU). The study's goal is to increase knowledge regarding the role of stress in interparental relationships in the NICU context.

Methods

- Retrospective cross-sectional study
- Targeting parents who experienced the preterm birth of an infant with a birth weight below 1,500 g
- Linear regression was used to analyse associations between the perceived stress (PSS:NICU) and relationship strain

¹ Institute of Medical Sociology, Health Services Research, and Rehabilitation Science, Faculty of Human Sciences and Faculty of Medicine. University of Coloane and University Hospital Coloane. Coloane. Germany

Cologne, Cologne, Germany



 Mothers show higher levels of stress and relationship strain than fathers.



However, for fathers, the infant's behaviours and appearance show a stronger association on relationship strain than for mothers.



Research should focus on stress prevention measures in NICUs to meet both maternal and paternal needs.

Results



Regression Analysis

Association between Parental Stress due to Infant Appearance and Behaviour and Parental Role Alterations and Maternally and Paternally Experienced Relationship Strain

Mothers						Fathers/Partners					
	В	SE	β	р	[95% CI]	В	SE	β	р	[95% CI]	
Parental role alterations	0.36	0.09	0.21	≤ 0.001	[0.18; 0.54]	0.12	0.11	0.08	0.280	[-0.10; 0.33]	
Infant appearance and behaviour	0.27	0.08	0.16	0.02	[0.09; 0.44]	0.42	0.11	0.27	0.002	[0.19; 0.65]	
Presence of further children	-0.04	0.18	-0.01	0.833	[-0.38; 0.31]	-0.23	0.18	-0.08	0.194	[-0.58; 0.12]	
Parental age	0.01	0.02	0.01	0.804	[-0.03; 0.04]	-0.003	0.015	-0.01	0.801	[-0.03; 0.03]	
Educ. degree											
Completed vocational training	0.98	0.58	0.27	0.090	[-0.15; 2.11]	-0.95	0.44	-0.3	0.16	[-1.81; -0.08	
Completed specialist training	1.15	0.61	0.21	0.062	[-0.06; 2.35]	-1.14	0.46	-0.3	0.08	[-2.04; -0.24	
University or college degree	0.94	0.58	0.28	0.103	[-0.19; 2.08]	-0.68	0.43	-0.23	0.119	[-1.53; 0.18	
R ² = 0.1056, adjusted R ² = 0.0894							R ² = 0.1394, adjusted R ² = 0.11				



