

Intro

- · Improvement in neonatal care
 - · Technological advances
 - Infant and family-centered "developmental care"
- History of developmental care has rarely been studied
- Question: "Which early works are still alive in more recent publications in the form of frequently cited references and are most important for the evolution of this research field?"
- Narrative historical review: risk of bias of subjectivity

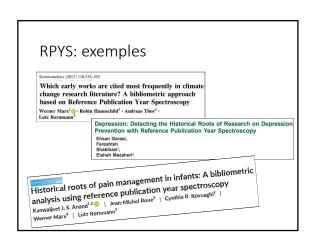
Reference Publication Year Spectroscopy (RPYS): Theory

- Single scientists judge the origins of their research field subjectively;
 the overall community: a more objective picture.
- Early reference publication years (RPYs) not equally represented.
- Some years occur more frequently among the cited references than others: → pronounced peaks
- Pronounced peaks frequently based on single early publications origins and intellectual roots

Reference Publication Year Spectroscopy (RPYS): methods

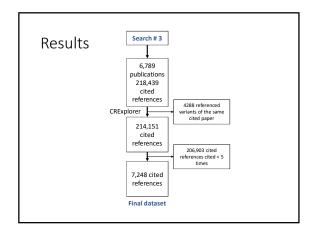


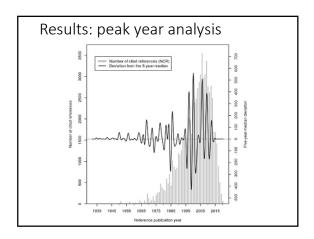
- ✓ Selection of publications in a given field of research
- ✓ Quantitative analysis of the cited references (CRExplorer)
 - ✓ Peak year analysis
 - ✓ Landmark publication analysis
- ✓ Quantifying the significance (N_TOP10 indicator)
- ✓ Revealing the historical roots

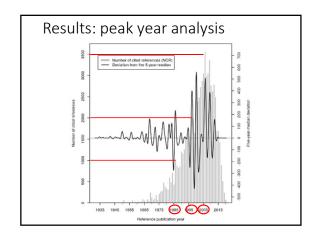


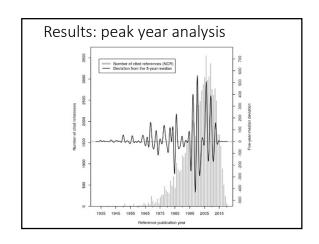
Methods

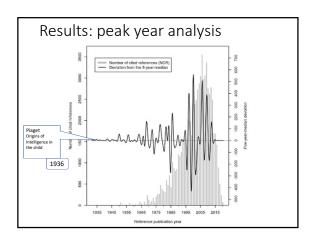
- Search carried out on Feb 2 2022
- No period limit
- Web of Sciences
 - Search # 1: Intervention-related synonyms: development care OR developmental care OR early intervention OR early interventions OR early development OR inflant development.
 - Search # 2: Infant-related synonyms: neonate OR neonates OR neonatal OI newborn OR newborns OR preterm OR premature birth OR low birth weight OR low birthweight OR full term O infant human OR limath human OR limath or or oR limath preterm OR limath or term neonates.
 - Search #3: Boolean operator « AND »
- Final dataset with cited references imported into CitedReferencesExplorer (CRExplorer)

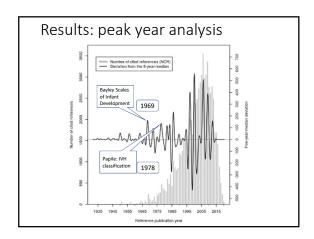


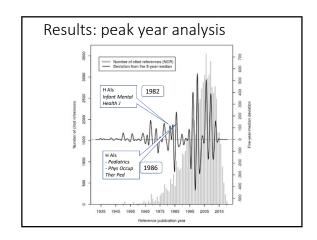


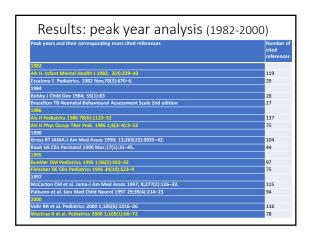


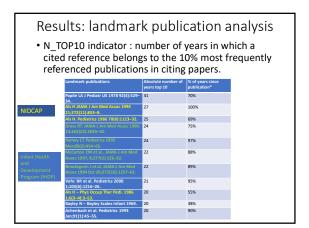












Limitations

- RPYS measures the impact and not the scientific quality
- Choice of the search terms
- Automatic greater importance of older publications (« historical roots »)

Conclusion

- Developmental care emerged after a switch in consideration of the infant in the mid-1900s.
- A major turning point was the conceptualisation of the Synactive theory of development by Als in 1982
- Two main programs, NIDCAP and IHDP, provided the basis of the broad concept of infant and familycentred developmental care