The social interaction of an adolescent who uses augmentative and alternative communication:
The evaluation of a peer training programme

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Table of Contents

Acknowledgements i
List of Tables ii
List of Figures iv
List of Appendices v
List of Photographs vi
Abstract vii
Opsomming ix

CHAPTER 1: ORIENTATION
1.1 INTRODUCTION 1-1
1.2 THE CONTEXT AND STATEMENT OF THE PROBLEM 1-1
1.3 OUTLINE OF CHAPTERS 1-4
1.4 DEFINITION OF TERMS 1-5
1.5 ABBREVIATIONS 1-7
1.6 SUMMARY 1-7

CHAPTER 2: THE SOCIAL INTEGRATION OF AN ADOLESCENT WHO USES AAC: THE NECESSITY OF PEER TRAINING
2.1 INTRODUCTION 2-1
2.2 ADOLESCENCE AND THE IMPORTANCE AND FUNCTION OF PEER GROUPS 2-1
2.3 SOCIAL COMPETENCE OF THE ADOLESCENT 2-3
2.4 THE IMPORTANCE OF PEER ATTITUDES 2-6
2.5 THE INTERACTION OF ADOLESCENTS WHO USE AAC 2-8
2.6 THE NECESSITY TO TRAIN COMMUNICATION PARTNERS 2-9
2.7 THE TRAINING OF PARTNERS IN AAC RESEARCH 2-11
2.8 THEORY AND PRINCIPLES OF PEER TRAINING 2-13
   2.8.1 Vygotsky's Developmental Theory and Zone of Proximal Development 2-13
2.8.2 Social Skills Training Approaches 2-14
2.8.3 Cooperative Learning Model 2-16
2.8.4 Underlying Principles and their Application in the Programme 2-17

2.9 THE EVALUATION OF PEER TRAINING PROGRAMMES 2-19
2.10 SUMMARY 2-19

CHAPTER 3: DESCRIBING PEER INTERACTIONS WITH A PERSON WHO USES AAC: MOVING TOWARDS AN ANALYTICAL SYSTEM

3.1 INTRODUCTION 3-1
3.2 THE COMPLEXITY OF COMMUNICATION 3-1
3.3 MEASURES TO DESCRIBE THE PSYCHOSOCIAL BACKGROUND 3-4
  3.3.1 Peer Referenced Assessment and Evaluation 3-4
    3.3.1.1 Socio-metric measures 3-4
    3.3.1.2 Peer evaluation of communication of adolescents using AAC 3-5
  3.3.2 Self report 3-6
    3.3.2.1 Multidimensional self concept scale 3-6
    3.3.2.2 Self description questionnaire II 3-6
    3.3.2.3 Interviews 3-7
    3.3.2.4 PACT user scale 3-7
  3.3.3 Evaluation of Social Interaction by Significant Adults 3-8
    3.3.3.1 Interactive checklist for augmentative communication 3-8
    3.3.3.2 PACT partner scales 3-8
    3.3.3.3 Interviews 3-8
3.4 TOWARDS A SYSTEM FOR DESCRIBING INTERACTIONS INVOLVING A PERSON WHO USES AAC 3-9
  3.4.1 Recording Observational Data 3-9
  3.4.2 Definitions 3-10
  3.4.3 Notational Conventions 3-11
  3.4.4 Transcription in Interactive Research 3-12
    3.4.4.1 Principles of transcription employed in AAC research 3-13
CHAPTER 4: METHODOLOGY

4.1 INTRODUCTION

4.2 AIMS

4.2.1 Primary Aim

4.2.2 Sub-aims

4.3 RESEARCH DESIGN

4.4 PILOT STUDY

4.4.1 Objective of the Pilot Study

4.4.2 Summary of the Pilot Study

4.5 MAIN STUDY

4.5.1 The Primary Research Participant

4.5.2 The Peer Group

4.5.3 The Teachers

4.5.4 Ethical Issues

4.5.4.1 In relation to the primary research participant

4.5.4.2 With respect to the peers

4.5.4.3 With respect to the teachers

4.5.5 Equipment and Materials

4.5.5.1 Video-recorder

4.5.5.2 Audio tape recorder

4.5.5.3 Multidimensional self concept scale

4.5.5.4 Self description questionnaire II

4.5.5.5 Partners in augmentative communication training rating scale

4.5.5.6 Peer nominations

4.5.5.7 Interviews

4.5.6 The Peer Training Programme
4.5.6.1 The theoretical basis for the peer training programme 4-16
4.5.6.2 Group strategies to promote cohesiveness 4-17
4.5.6.3 The goals of the peer training 4-18
4.5.6.4 The structure of the communication workshops 4-19
4.5.6.5 The materials used in the communication workshops 4-19
4.5.6.6 Summary of the peer training workshop 4-21
4.5.6.7 The evaluation of the peer training programme 4-24

4.5.7 Data Collection Procedures 4-25
4.5.7.1 Videotaping of interactions 4-25
4.5.7.2 Peer nominations and peer PACT scales 4-26
4.5.7.3 Self concept scales 4-27
4.5.7.4 Interviews 4-27

4.5.8 Data Analysis 4-28
4.5.8.1 The analysis of the videotape transcriptions 4-28
4.5.8.2 The analysis of the multidimensional self concept scale 4-31
4.5.8.3 The analysis of the self description questionnaire II 4-31
4.5.8.4 The analysis of the PACT scales 4-32
4.5.8.5 The analysis of the peer nominations 4-32
4.5.8.6 The analysis of the audiotape transcriptions of interviews 4-32

4.5.9 Data Presentation 4-33
4.5.9.1 Presentation of data from the videotapes 4-33
4.5.9.2 Presentation of the data of the self concept scales 4-33
4.5.9.3 Presentation of the PACT rating scale data 4-34
4.5.9.4 Data presentation of the socio-metric measures 4.34

4.6 SUMMARY 4-34

CHAPTER 5: RESULTS AND DISCUSSION OF RESULTS

5.1 INTRODUCTION 5-1
5.2 RELIABILITY 5-3

5.2.1 Reliability of the Coding of the Videotape Transcriptions 5-4
5.2.1.1 Intra-rater reliability 5-4
5.2.1.2 Inter-rater reliability

5.2.2 Reliability of the Self Concept Measures

5.3 RESULTS OF THE ANALYSIS OF OBSERVATIONAL DATA

5.3.1 Frequency and Extent of Interactions

5.3.1.1 Frequency of interactions expressed as the mean number of messages per minute

5.3.1.2 The mean number of messages per interchange (extent of interchanges)

5.3.2 Qualitative Analysis of Observational Data

5.3.2.1 Comparisons of discourse functions

5.3.2.2 Comparisons of communication functions

5.3.2.3 Comparison of communication modes used by the primary participant

5.3.2.4 Comparison of partner responses

5.3.3 Summary of Main Findings of observational Data

5.4 ANALYSIS OF DATA FROM THE PRE AND POST MEASURES

5.4.1 Multidimensional Self Concept Scale

5.4.2 Self Description Questionnaire II

5.4.3 Discussion of Self Concept Scale Results

5.4.4 PACT Rating Scales

5.4.4.1 PACT user rating scale

5.4.4.1.1 Attitudes to use of speech and the VOCA

5.4.4.1.2 Discussion with respect to “I think I need to use my DeltaTalker™ to do better in school”

5.4.4.1.3 Discussion with respect to “My classmates understand how to use my DeltaTalker™”

5.4.4.1.4 Discussion with respect to “My classmates like me to talk”

5.4.4.2 PACT peer rating scale

5.4.4.3 PACT teacher rating scale

5.4.4.4 PACT parent rating scale
5.4.5 Socio-metric Status
5.4.6 Interviews
  5.4.6.1 Analysis of interviews with the adolescent who uses AAC
  5.4.6.2 Analysis of the interviews with teachers
    5.4.6.2.1 The validity of the results of the interviews
  5.4.6.3 Analysis of the interviews with parents
5.4.7 Consensus of Interview Conclusions

5.5 CORRELATION BETWEEN OBSERVATIONAL DATA AND PRE AND POST MEASURES

5.5.1 Convergent Findings
  5.5.1.1 Increase in frequency of interactions
  5.5.1.2 Apparent change in affect
  5.5.1.3 Primary participant’s use of voice
  5.5.1.4 The primary participant’s ability to answer peer’s questions
    5.5.1.5 The attitude of the primary participant to using his
      DeltaTalker™
  5.5.1.6 Influence of family on self concept
5.5.2 Divergent Findings
  5.5.2.1 Use of DeltaTalker™ to improve school performance
  5.5.2.2 Social relationships with peers

5.6 OVERVIEW OF RESULTS

5.6.1 Reliability
5.6.2 Interaction Patterns of the Adolescent who uses AAC with his peers
5.6.3 Possible Effects of Peer Training on the Social interactions of
  the Adolescent who uses AAC
5.6.4 Results of Self Concept Scales at Pre and Post Intervention
  Phases of Research
5.6.5 Changes in the Self Evaluation of the Primary Participant
  5.6.5.1 Results with respect to the attitudes, perceptions and
    behaviours of peers and the socio metric status of the primary
CHAPTER 6: CONCLUSIONS, EVALUATION AND RECOMMENDATIONS

6.1 INTRODUCTION

6.2 CONCLUSIONS

6.2.1 The Value of Peer training to Facilitate the Social Interaction of Adolescents who use AAC

6.2.2 Consideration of Pertinent Communication Functions

6.2.3 The importance of the Multimodality of ACC - Including Aided and Unaided Modes

6.2.4 The Possible Effect on Self Concept

6.2.5 The Lack of Peer Training Programmes for use with Children and Adolescents who use AAC

6.2.6 The Viability of Peer Training

6.3 CLINICAL IMPLICATIONS

6.3.1 Peer Training Promotes Social competence for Adolescents who use AAC

6.3.2 Socio-communicative Competence and Self Concept

6.3.3 Need for Additional Training Materials

6.3.4 Need to Train Peers of Children who use AAC

6.4 EVALUATION OF THE RESEARCH STUDY

6.4.1 Positive Aspects of the Research

6.4.2 Limitations of the Research

6.5 RECOMMENDATIONS FOR FURTHER RESEARCH

6.6 CONCLUDING STATEMENT

6.7 SUMMARY

REFERENCES
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## List of Tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 2.1</td>
<td>Strategies to Promote Group Cohesiveness</td>
<td>2-17</td>
</tr>
<tr>
<td>Table 2.2</td>
<td>The Underlying Principles and their Theoretical Basis</td>
<td>2-18</td>
</tr>
<tr>
<td>Table 3.1</td>
<td>Interview Formats</td>
<td>3-7</td>
</tr>
<tr>
<td>Table 3.2</td>
<td>Advantages and Disadvantages of Interviews</td>
<td>3-9</td>
</tr>
<tr>
<td>Table 3.3</td>
<td>Definitions of Notations and Theoretical Basis</td>
<td>3-11</td>
</tr>
<tr>
<td>Table 3.4</td>
<td>Definitions of Transcription Principles and Theoretical Basis</td>
<td>3-14</td>
</tr>
<tr>
<td>Table 3.5</td>
<td>Definitions of Segmental Boundaries in AAC Research</td>
<td>3-17</td>
</tr>
<tr>
<td>Table 4.1</td>
<td>Research Aims and Measuring Instruments</td>
<td>4-3</td>
</tr>
<tr>
<td>Table 4.2</td>
<td>Objectives, Method, Results and Recommendations of Pilot Study</td>
<td>4-6</td>
</tr>
<tr>
<td>Table 4.3</td>
<td>Grade 8 Learners, their Ages, Gender and Medical Diagnoses</td>
<td>4-11</td>
</tr>
<tr>
<td>Table 4.4</td>
<td>The Underlying Principles and their Application in the Programme</td>
<td>4-17</td>
</tr>
<tr>
<td>Table 4.5</td>
<td>Issues of Communication and Desired Behaviours of Peers</td>
<td>4-18</td>
</tr>
<tr>
<td>Table 4.6</td>
<td>The Objectives, Procedures and Materials of the Peer Programme</td>
<td>4-22</td>
</tr>
<tr>
<td>Table 4.7</td>
<td>Record of Filming of the Videotapes</td>
<td>4-26</td>
</tr>
<tr>
<td>Table 4.8</td>
<td>Process of Pre and Post Measures</td>
<td>4-28</td>
</tr>
<tr>
<td>Table 4.9</td>
<td>Description of the Divisions of Each Category and the Coding Structure</td>
<td>4-29</td>
</tr>
<tr>
<td>Table 5.1</td>
<td>Measures Used to Improve Reliability of the Research Results.</td>
<td>5-3</td>
</tr>
<tr>
<td>Table 5.2</td>
<td>Inter-rater Percentages of Agreement of Videotape Coding</td>
<td>5-5</td>
</tr>
<tr>
<td>Table 5.3</td>
<td>Schematic Overview of Observational Data Analysis</td>
<td>5-6</td>
</tr>
<tr>
<td>Table 5.4</td>
<td>Mean Number of Messages Per Minute</td>
<td>5-7</td>
</tr>
<tr>
<td>Table 5.5</td>
<td>Mean Number of Messages per Interchange</td>
<td>5-10</td>
</tr>
<tr>
<td>Table 5.6</td>
<td>Ratio of Initiation of Interchanges</td>
<td>5-11</td>
</tr>
<tr>
<td>Table 5.7</td>
<td>Results of Analysis for Teacher Directed Time, Context 1.</td>
<td>5-14</td>
</tr>
<tr>
<td>Table 5.8</td>
<td>Results of Analysis for OBE Small Group Discussion Time, Context 2.</td>
<td>5-16</td>
</tr>
<tr>
<td>Table 5.9</td>
<td>Results of Analysis for Informal Time, Context 3.</td>
<td>5-18</td>
</tr>
<tr>
<td>Table 5.10</td>
<td>Schematic Overview of the Data Analysis for Pre and Post Measures</td>
<td>5-34</td>
</tr>
<tr>
<td>Table 5.11</td>
<td>Results of Adolescent who Uses AAC, Pre Intervention on the Multidimensional Self Concept Scale</td>
<td>5-35</td>
</tr>
<tr>
<td>Table 5.12</td>
<td>Results of Adolescent who Used AAC, Post Intervention on Multidimensional Self Concept Scale</td>
<td>5-36</td>
</tr>
<tr>
<td>Table 5.13</td>
<td>Pre and Post Intervention Results on the Self Description Questionnaire II</td>
<td>5-37</td>
</tr>
<tr>
<td>Table 5.14</td>
<td>PACT User and PACT Peer Partner Results</td>
<td>5-43</td>
</tr>
<tr>
<td>Table 5.15</td>
<td>Examples of Items Showing More Positive Ratings of the Adolescent who Uses AAC</td>
<td>5-44</td>
</tr>
<tr>
<td>Table 5.16</td>
<td>Pre and Post Intervention Results of the PACT Teacher Rating Scale</td>
<td>5-45</td>
</tr>
<tr>
<td>Table 5.17</td>
<td>Pre and Post Intervention Results of the PACT Parent Rating Scales</td>
<td>5-47</td>
</tr>
<tr>
<td>Table 5.18</td>
<td>Results of the Socio-metric Nominations</td>
<td>5-48</td>
</tr>
<tr>
<td>Table 5.19</td>
<td>Variables Influencing the Provision of Peer Interactions during Classes and Teacher Observations as Reported in the Interviews</td>
<td>5-50</td>
</tr>
<tr>
<td>Table 5.20</td>
<td>Positive Factors and Limitations Influencing Validity of Teacher Observations</td>
<td>5-51</td>
</tr>
<tr>
<td>Table 5.21</td>
<td>Summarized Findings of Teacher Interviews</td>
<td>5-52</td>
</tr>
<tr>
<td>Table 5.22</td>
<td>Summarized Findings of the Interviews with Parents</td>
<td>5-53</td>
</tr>
<tr>
<td>Table 5.23</td>
<td>Evaluation of Relationships between Findings</td>
<td>5-54</td>
</tr>
</tbody>
</table>
## List of Figures

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure 3.1</td>
<td>Schematic representation of division of discourse into segmented units</td>
<td>3-20</td>
</tr>
<tr>
<td>Figure 5.1</td>
<td>Areas of analysis of data</td>
<td>5-2</td>
</tr>
<tr>
<td>Figure 5.2</td>
<td>Frequency of interactions</td>
<td>5-8</td>
</tr>
<tr>
<td>Figure 5.3</td>
<td>Mean number of messages per interchange</td>
<td>5-10</td>
</tr>
<tr>
<td>Figure 5.4</td>
<td>Comparison of incidence of discourse maintainer, discourse function 4, for the three contexts across the phases of research</td>
<td>5-20</td>
</tr>
<tr>
<td>Figure 5.5</td>
<td>Comparison of the incidence of the communication function 5, offering information, across the phases of research</td>
<td>5-23</td>
</tr>
<tr>
<td>Figure 5.6</td>
<td>Comparison of incidence of communication function 4, asking questions/ making requests, across the phases of research</td>
<td>5-25</td>
</tr>
<tr>
<td>Figure 5.7</td>
<td>Comparison of incidence of communication function 7, expressing emotions or feelings across the phases of research</td>
<td>5-26</td>
</tr>
<tr>
<td>Figure 5.8</td>
<td>Comparison of incidence of teasing/ pretending/ humour/ sarcasm, communication function 8, across the phases of research</td>
<td>5-27</td>
</tr>
<tr>
<td>Figure 5.9</td>
<td>Comparison of incidence of using natural voice, mode 1, across the phases of research</td>
<td>5-29</td>
</tr>
<tr>
<td>Figure 5.10</td>
<td>Comparison of incidence of partner response 4, discourse maintainer across phases of research</td>
<td>5-31</td>
</tr>
<tr>
<td>Figure 5.11</td>
<td>Comparison of incidence of partner response 3, partner ignores user across phases of research</td>
<td>5-32</td>
</tr>
<tr>
<td>Figure 5.12</td>
<td>Comparison of pre and post training profiles of the adolescent who uses AAC on the multidimensional self concept scale</td>
<td>5-36</td>
</tr>
<tr>
<td>Figure 5.13</td>
<td>Comparison of pre and post training profiles of the adolescent who uses AAC on the self description questionnaire ll</td>
<td>5-38</td>
</tr>
</tbody>
</table>
List of Appendices

The appendices are on the CD ROM

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPENDIX A</td>
<td>Peer Nomination Form</td>
</tr>
<tr>
<td>APPENDIX B</td>
<td>Communication Workshops Planners 1 - 7</td>
</tr>
<tr>
<td>APPENDIX C</td>
<td>Sample Handout of Workshop</td>
</tr>
<tr>
<td>APPENDIX D</td>
<td>Instructions for completion of peer nominations</td>
</tr>
<tr>
<td>APPENDIX E</td>
<td>Transcript of videotape – Post withdrawal Videotape 3</td>
</tr>
<tr>
<td>APPENDIX F</td>
<td>Graphs of Discourse Functions</td>
</tr>
<tr>
<td>APPENDIX G</td>
<td>Graphs of Communication Functions</td>
</tr>
<tr>
<td>APPENDIX H</td>
<td>Graphs of Communication Modes</td>
</tr>
<tr>
<td>APPENDIX I</td>
<td>Graphs of Partner Responses</td>
</tr>
<tr>
<td>APPENDIX J</td>
<td>PACT User Scale Results</td>
</tr>
<tr>
<td>APPENDIX K</td>
<td>Analysis of Interviews with Primary Participant</td>
</tr>
<tr>
<td>APPENDIX L</td>
<td>Analysis of Focus Interviews with Teachers</td>
</tr>
<tr>
<td>APPENDIX M</td>
<td>Analysis of Focus Interviews with Parents</td>
</tr>
</tbody>
</table>
List of Photographs

<table>
<thead>
<tr>
<th>Photograph</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photograph 1</td>
<td>Materials made for the peer training programme including the following cards: (i) unfinished sentences, (ii) emotions, (iii) contingent responses and (iv) statements.</td>
<td>4-20</td>
</tr>
<tr>
<td>Photograph 2</td>
<td>Alphabet and word communication boards</td>
<td>4-20</td>
</tr>
<tr>
<td>Photograph 3</td>
<td>Additional materials showing copy of handout and a worksheet</td>
<td>4-20</td>
</tr>
<tr>
<td>Photograph 4</td>
<td>Topic cards and minspeak symbol sheet</td>
<td>4-20</td>
</tr>
</tbody>
</table>
Abstract

The social interaction of children and adolescents who have little or no functional speech (LNFS) and use augmentative and alternative communication (AAC) systems is often severely limited. Deficits in terms of their interactions with peers in the natural settings of classrooms and playgrounds are well documented. Adolescents who do not have the opportunities or skills to socially interact with peers do not develop the social and communicative skills and abilities that are required for positive social and personal adjustment in adulthood.

In this study a peer training programme was designed and implemented with the Grade 8 peers of an adolescent who had severe physical disabilities and used AAC. The study used a single subject experimental design whereby the interaction between the adolescent who used AAC and his classroom peers was investigated before and after implementation of the peer training programme. An analytical model to describe the interactions and potential changes in the interactions of adolescents who use AAC was developed. The model also included various measures to evaluate pertinent psychosocial factors of the interactions of a person using AAC with peers. These measures were qualitative in nature and included self evaluative measures of the adolescent who used AAC in addition to measures to determine the perceptions of his peers, his teachers and parents.

Results of the observational data reflected an increase in the frequency of interactions as indicated by the number of messages per minute and the extent of the interactions as signified by an increase in the number of messages per interchange. Changes were also noted in terms of the discourse and communication functions achieved by the interactions, the modes of communication used by the adolescent who used AAC and the responses of his peer partners. Changes included an increase in the primary participant's use of requesting or asking questions, showing feelings and emotions and his use of humour. The peer partners increased their initiations with the adolescent who used AAC and responded more appropriately to him as the research process progressed with a
concurrent positive decline in the peer response of ignoring the adolescent who used AAC.

The research study is evaluated, clinical implications are considered and recommendations for further research are discussed.

**Key Terms:** Adolescence, augmentative and alternative communication, communication competence, communication partners, little or no functional speech, multi-modal communication, peer training, self concept, social interaction, and voice output.
Opsomming

Die sosiale interaksie interaksie van kinders en adolessente met min of geen funksionele spraak wat gebruik maak van aanvullende en alternatiewe kommunikasiestelsels (AAK) is dikwels uitsers beperk. Die agterstand in hul interaksie met hul portuurgroep in natuurlike omgewings soos die klaskamer en die speelterrein is reeds goed gedokumenteer. Adolessente wat nie die geleentheid of die vaardighede het om sosiaal met hul portuurgroep te verkeer nie, ontwikkel nie die sosiale en kommunikasievaardighede en -vermoëns wat noodsaaklik is vir positiewe sosiale en persoonlike aanpassing in volwassenheid nie.

'n Opleidingsprogram is in dié tesis ontwerp en geïmplementeer onder die portuurgroep (medeskoliere in Graad 8) van 'n ernstig liggaamlik gestremde adolessent wat deur middel van 'n AAK-stelsel kommunikeer. Die studie maak van 'n enkelonderwerp-ekperimentele ontwerp gebruik, waarkragtens die interaksie tussen 'n adolessent wat 'n AAK-stelsel gebruik en sy klasmaats ondersoek word, sowel voor- en nadat die portuurgroep 'n opleidingsprogram deurloop het. 'n Analitiële model is ontwikkel om die interaksies, en potensiële verandering in die interaksies, van adolessente wat AAK-stelsels gebruik, te beskryf. Die model sluit ook verskeie meetinstrumente in waarmee die belangrikste psigososiale faktore van die interaksie van 'n persoon wat AAK-stelsels met die portuurgroep gebruik, geëvalueer kan word. Dié meetinstrumente was kwalitatief van aard is het voorsiening gemaak vir self-evaluering deur die adolessent wat AAK-stelsels gebruik, asook vir meetinstrumente om die persepsies van maats, onderwysers en ouers te bepaal.

Die waarnemingsdata het op die vermeerdering in die frekwensie van dié interaksies gewys, gemeet aan die aantal boodskappe per minuut en die omvang van die interaksies, soos aangedui deur die toename in die aantal boodskappe per interaksie. Nog verandering wat bespeur is, was in die gespreksvoerings- en kommunikasiefunksies wat deur die interaksies bewerkstellig is, die kommunikasiomodaliteite wat gebruik is deur die adolessent wat AAK-stelsels gebruik, en die reaksies van sy portuurgroep. Die
veranderings het ook 'n toename in die aantal versoekte wat gereg of vrae wat gestel is deur die primere deelnemer ingesluit; hy was ook meer geneig om gevoel en emosie te toon en humor te gebruik. Met verloop van die navorsingsproses is waargeneem dat die portuurgroep meer gereeld interaksie insieër met die adolessent wat AAK-stelsels gebruik en op 'n toepasliker wyse teenoor hom optree, met 'n gepaardgaande positiewe afname in die neiging van die portuurgroep om die adolessent wat AAK-stelsels gebruik, te ignoreer.

Die navorsingsprojek word geëvalueer; die kliniese implikasies word oorweeg; en aanbevelings vir verdere navorsing word bespreek.

**Sleutelewoorde:** Adolesensie, aanvullende en alternatiewe kommunikasie, kommunikasiebevoegdheid, kommunikasievennote, min of geen fynskionele spraak, multi-modale kommunikasie, opleiding van die portuurgroep, selfkonsep, sosiale interaksie, en spraakuitset.