

Multimedia Appendix 3  
**Inclusion and Exclusion Criteria**

|                           | <b>Criteria</b>   | <b>Rationale</b>  |
|---------------------------|---|---|
| <b>Inclusion criteria</b> | <b>I1</b> Articles written in English or German   | - Languages spoken by the research team   |
|                           | <b>I2</b> Original research articles or brief reports in peer-reviewed journals or conference proceedings/papers  | - Focus on original, substantiated research<br>- Conference proceedings especially relevant in computer science, design and engineering   |
|                           | <b>I3</b> Publications published between 2008-2021  | - Introduction of mobile applications in 2008 (launch of the Apple App Store)   |
|                           | <b>I4</b> Publications have to elaborate on the elements of at least one of the main research questions regarding mobile applications dealing with prevention and/or handling of unintentional childhood injuries | - Overview on existing mobile applications and their characteristics and features<br>- Theoretical and methodological background to research them<br>- Needs and constraints of private or professional caregivers and health professionals |
| <b>Exclusion criteria</b> | <b>E1</b> The publication does not meet all of the inclusion criteria I1-I4   | - Not in English or German<br>- Not an original research article or brief report; not peer-reviewed<br>- Published before 2008 or after 2021<br>- Does not provide answers to the research questions  |
|                           | <b>E2</b> The mobile application deals with handling / prevention of childhood injuries that were caused intentionally  | - Different nature of injuries (e.g. abuse, self-inflicted injuries)<br>- Other prevention measures and strategies needed   |
|                           | <b>E3</b> The paper focuses on education of medical staff / students  | - Training situations not comparable with real live experiences   |
|                           | <b>E4</b> The paper focuses on tracking/collecting individual health data (e.g. monitoring patients, self-management of diseases) as part of an ongoing treatment   | - Different objectives compared to first aid and prevention<br>- Different target population for the app (esp. self-management)   |
|                           | <b>E5</b> If the article only mentions a mobile application to illustrate something   | - Paper needs to address the main research questions (see I4)   |
|                           | <b>E6</b> If the paper provides no empirical data, e.g. by focusing only on technical / theoretical aspects   | - Paper needs to contain original empirical research  |
|                           | <b>E7</b> Articles to which we had no full access through databases or by contacting the corresponding author   |   |