**Additional file 2**

Matrix for coding pediatric manual wheelchair users’ data following the Framework method (Gale et al., 2013)

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| **Global satisfaction :****Meets the intended user’s needs and expectations.** |
|  | Storybook | Posters | Training workbook |
| First impression | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Favorite elements |  |  |  |
| Disliked elements |  |  |  |
| Playfulness | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Other |  |  |  |
| **Usability :****Ease of targeted users to use the tools in terms of format and presentation (aesthetics)****Ease of targeted users to understand the tools’ content** |
|  | Storybook | Posters | Training workbook |
| Tool’s visual appearance | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Characters | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Colors | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Structure or elements organization | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Understanding information | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | Objectives: ☺ / 😐 / ☹Levels: ☺ / 😐 / ☹Instructions: ☺ / 😐 / ☹Comments: ☺ / 😐 / ☹Other : |
| Skills presentation | Roll forward : ☺ / 😐 / ☹Pick objects from floor: ☺ / 😐 / ☹Turn while moving forward: ☺ / 😐 / ☹Roll backward: ☺ / 😐 / ☹ | Roll forward : ☺ / 😐 / ☹Pick objects from floor: ☺ / 😐 / ☹Turn while moving forward: ☺ / 😐 / ☹Roll backward: ☺ / 😐 / ☹ | Roll forward : ☺ / 😐 / ☹Pick objects from floor: ☺ / 😐 / ☹Turn while moving forward: ☺ / 😐 / ☹Roll backward: ☺ / 😐 / ☹ |
| Other |  |  |  |
| **Relevance :****Indicates that intended users find the information or knowledge applicable and important.** |
|  | Storybook | Posters | Training workbook |
| Tool catches children’s attention (interest them) | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Interest towards information on wheelchair skills | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Learn new things |  |  |  |
| Change the way a skill is performed | Roll forward : ☺ / 😐 / ☹Pick objects from floor: ☺ / 😐 / ☹Turn while moving forward: ☺ / 😐 / ☹Roll backward: ☺ / 😐 / ☹ | Roll forward : ☺ / 😐 / ☹Pick objects from floor: ☺ / 😐 / ☹Turn while moving forward: ☺ / 😐 / ☹Roll backward: ☺ / 😐 / ☹ | Roll forward : ☺ / 😐 / ☹Pick objects from floor: ☺ / 😐 / ☹Turn while moving forward: ☺ / 😐 / ☹Roll backward: ☺ / 😐 / ☹ |
| Encourage practice | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Desire to use the tool | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ | ☺ / 😐 / ☹ |
| Other |  |  |  |
| **Feasibility:****Character of what is feasible, achievable** |
|  | Storybook | Posters | Training workbook |
| Feasibility to perform the skills with the wheelchair and in the environment |  |  |  |
| Other |  |  |  |
| **Other comments** |
|  | Storybook | Posters | Training workbook |
| Other - children |  |  |  |
| Other - parents |  |  |  |
| **Suggestions - Specific comments for changes** |
|  | Storybook | Posters | Training workbook |
| Suggestions - children |  |  |  |
| Suggestions - parents |  |  |  |