**Supplementary Appendix A: Database search**

<table>
<thead>
<tr>
<th>Clinical guideline database</th>
<th>Medical literature database</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Guideline Clearinghouse</td>
<td>PubMed</td>
</tr>
<tr>
<td>Guidelines International Network</td>
<td>Scopus</td>
</tr>
<tr>
<td>National Institute for Health and Clinical Excellence</td>
<td>Google Scholar</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
</tr>
</tbody>
</table>

**Supplementary Appendix B: Application layouts**

![Application layouts](image_url)

- **Information record page**
  - Drugs used
  - Symptoms
  - Asthma attacks
  - Peak flow meter values
  - Triggers

- **Homepage**
  - Information Content
    - Basic facts about the Asthma
    - Relievers and preventers
    - Allergen and trigger avoidance
    - How to use treatment
    - Self-monitoring and assessment skills
    - Recognizing and responding appropriately to acute exacerbations

- **Communication page**
  - Name and surname
  - Telegram ID
  - Mobile number
  - Message Text

- **Reminder page**
  - Hour
    - 13
  - Minute
    - 14
  - Year
    - 2019
  - Month
    - 10
  - Day
    - 12
  - Reminder
    - Appointments
    - Medication
    - Respiratory assistance device use
    - Vaccination

- **Reminder**
  - Send

- **Ok**