Pediatric Asthma Management Tool
Program Flow

Login screen

    Username:

    Password:

Profile screen

Please add your child's profile name:

Hello [Username] and [Profile name}

Password:

Help screen

What would you like to do for [Profile name]'s asthma management right now?

[1] Add or edit the Asthma Action Plan (AAP)

[2] Check symptoms for treatment need

[3] Note symptoms or quick relief med initiation

[4] Exit

input(What would you like to do? (Enter a number))

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[1] Edit AAP

If you know your child's Asthma Action Plan (AAP), please enter/select the medications below for each type (*must clarify dropdown possibility for long med list).

Long-term medication: *ex: Flovent 2 puffs daily*

Quick relief medication: *ex: Albuterol 2 puffs every 4-6 hours as needed*

Quick relief emergency dosing: ex: Albuterol 2 puffs every 30 mins—1 hour and seek medical care

This is what you noted as your child's AAP, please review for accuracy:

Long-term medication: *ex: Flovent 2 puffs daily*
Quick relief medication: *ex: Albuterol 2 puffs every 4-6 hours as needed*
Allergy medication (if applicable): ex: *Zyrtec 5mg once daily*

Is this correct? Y/N (Y - Return to Help screen; N - Return to initial AAP screen prompt to edit)

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[2] Symptom check

Are you experiencing any asthma/cold related symptoms today? (Y/N) [N—Return to Help screen; Y—following…]

Is your child experiencing any of the following symptoms?

[1] First signs of cold
[2] Exposure to known trigger, etc
[3] Cough
[4] Mild wheeze
[5] Tight chest
[6] Coughing at night

input(List the number for each symptom your child is experiencing (ex: 2, 3):)

I understand your child is experiencing: *listed input response.
Is your child experiencing any other symptoms at this time? (Y/N)

N—Based on the symptoms you noted your child is in the Caution zone. We recommend they take their quick relief medicine:

 Albuterol 2 puffs every 4-6 hours—

If symptoms do not improve in x time—Contact your pediatrician. Or if symptoms worsen, increase to Danger level med management and get help from a provider right away. If you cannot reach your pediatrician take your child to the ER.

Y— Ask… Is your child experiencing any of the following symptoms?
[1] Medicine is not helping
[2] Breathing is hard and fast
[3] Nose opens wide
[4] Trouble speaking
[5] Ribs show
[5] Tight chest
[6] Coughing at night

input(List the number for each of these symptoms your child is additionally experiencing (ex: 1, 2):)

I understand your child is experiencing: *listed input response.

Based on the symptoms you noted your child is in the Danger zone. We recommend they take their quick relief medicine NOW:

 Albuterol 2 puffs every 30mins—1hour, not to exceed X.. Get help from a provider NOW. If you cannot reach your pediatrician take your child to the Emergency Department.

Input(Press any key to return to Help screen:)

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[3] Note screen (*Optimally associate note with date/time of their choosing—code issue)

Here you can free text any notes to track for your child's next follow-up visit with their provider. Ex: 11/16 –noon too albuterol after increased wheezing. Some relief after 30 mins, and symptoms improved. No known trigger.

Free text any notes and associated time period you would like to track in between provider visits? (Y/N

This is what you noted: *Print what was inputted.

Would you like to make a note of anything else? (Y/N) [N - Say thank you, and Return to help screen; Y—reprompt initial input of note screen] - loop input and recording to txt until N used.

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[4] Exit screen
Thank you for using this program, see you again soon!
*After 5 seconds — return to Login screen