

Quick Start Guide: Using the MNOA Tool Online

Introduction

The Medication Name Overlap Analyzer (MNOA) is a web-based research tool developed to analyze lists of medication names for character-level ambiguity. This guide provides step-by-step instructions for end-users to access and utilize the live web application. No installation or technical setup is required.

This guide will cover:

- Accessing the live MNOA tool via its web link.
- Preparing and inputting a medication list for analysis.
- Running the analysis.
- Interpreting the primary results.

Step 1: Open the MNOA Website

Open your web browser and go to the following URL:

[<https://mnoa-a89d0fe66bed.herokuapp.com/>]

The application will load and look like this:

The screenshot shows the MNOA web application. At the top left is the MNOA logo, which consists of a blue square with horizontal bars of varying heights followed by the text "MNOA Medication Name Overlap Analyzer". Below the logo is a text input field with the placeholder "Paste a list of medication names here...". To the right of the input field, there is a large button with a grey gradient and a white play icon in the center. To the right of the button is a section titled "List Analysed" with a "(click to collapse)" link. Below this are four expandable sections: "Overall List Stats" (with a bar chart icon), "Round By Round Stats" (with a scatter plot icon), "Keystroke Power by Round" (with a line graph icon), and "All Overlaps by Round" (with a circular icon). At the bottom right of the main content area is a small GitHub logo.

Step 2: Get Your List of Medication Names

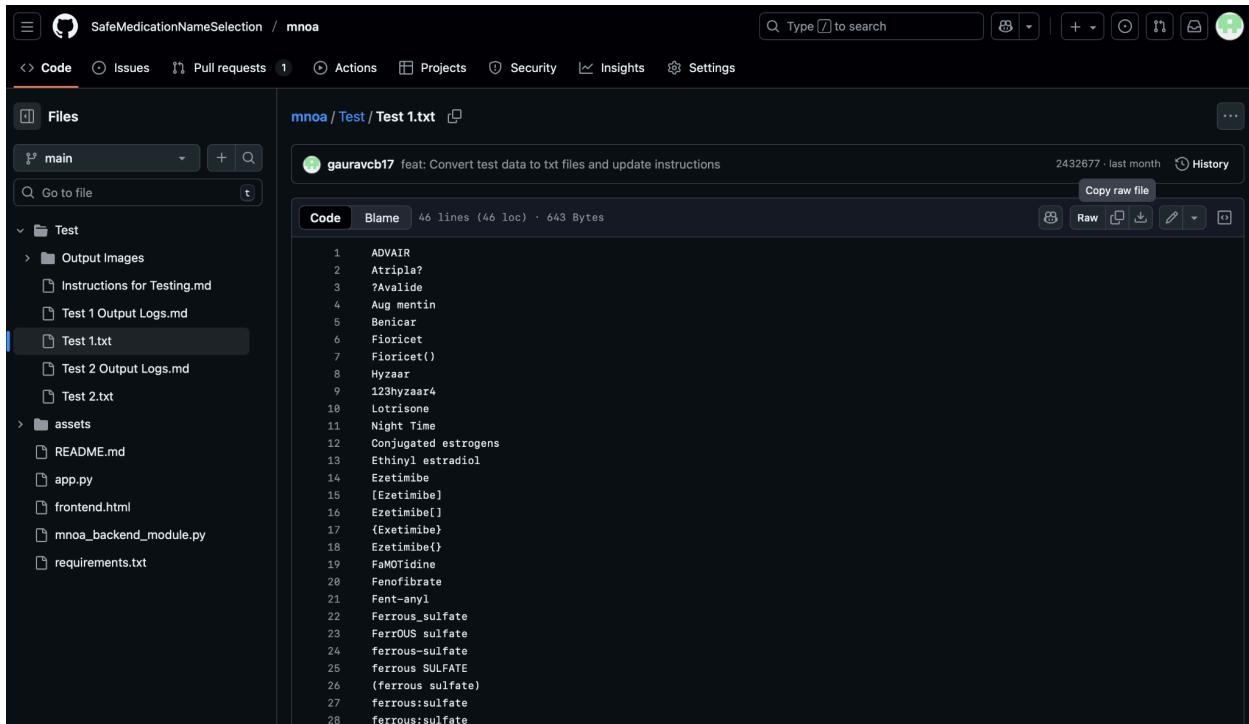
You have two options for getting a list of names to analyze:

Option A: Use Your Own List

1. Prepare your list of medication names (e.g., in a text file, spreadsheet, or document).
2. Select all the names on your list.
3. Copy the selected names to your clipboard (Ctrl+C / Cmd+C).

Option B: Use the Provided Test Files from GitHub

1. Go to the project's GitHub repository:
<https://github.com/SafeMedicationNameSelection/mnoa>
2. Click on the Test folder in the file list.
3. Click on either Test 1.txt or Test 2.txt.
4. On the file view page, click the "Copy raw contents" button (it looks like two overlapping squares) located at the top right of the file content area. This copies the entire list to your clipboard.



The screenshot shows the GitHub repository interface for 'SafeMedicationNameSelection/mnoa'. The 'Code' tab is selected. In the left sidebar, the 'Test' folder is expanded, showing files like 'Output Images', 'Instructions for Testing.md', 'Test 1 Output Logs.md', 'Test 1.txt' (which is selected), 'Test 2 Output Logs.md', 'Test 2.txt', 'assets', 'README.md', 'app.py', 'frontend.html', 'mnoa_backend_module.py', and 'requirements.txt'. The main content area displays the 'Test 1.txt' file. The file content is as follows:

```
1 ADVAIR
2 Atripura?
3 ?Avalide
4 Augmentin
5 Benicar
6 Fioricet
7 Fioricet()
8 Hyzaar
9 123Hyzaar4
10 Lotrisone
11 Night Time
12 Conjugated estrogens
13 Ethinylestradiol
14 Ezetimibe
15 [Ezetimibe]
16 Ezetimibe[]
17 {Ezetimibe}
18 Ezetimibe{}
19 FaMOTidine
20 Fenofibrate
21 Fentanyli
22 Ferrous_sulfate
23 Ferrous sulfate
24 ferrous-sulfate
25 ferrous SULFATE
26 (ferrous sulfate)
27 ferrous:sulfate
28 ferrous:sulfate
```

Step 3: Paste Your List into the Tool

Go back to the MNOA website in your browser and paste your copied list directly into the large text box on the left (Ctrl+V / Cmd+V).

The screenshot shows the MNOA Medication Name Overlap Analyzer. On the left, a text input field contains a list of medication names: ADVAIR, Atripla?, ?Avalide, Aug mentin, Benicar, Fioricet, Fioricet(), Hyzaar, 123hyzaar4, Lotrisone, Night Time, Conjugated estrogens, Ethinyl estradiol, Ezetimibe, [Ezetimibe], Ezetimibe[], {Ezetimibe}, Ezetimibe{}, FaMOTidine, Fenofibrate, Fent-anyl, Ferrous_sulfate. To the right of the list is a blue circular "Analyze" button. To the right of the button is a panel titled "List Analysed" with four expandable sections: "Overall List Stats", "Round By Round Stats", "Keystroke Power by Round", and "All Overlaps by Round".

Step 4: Run the Analysis

Click the round blue "Analyze" button (the ▶ symbol) located between the two main panels.

This screenshot is identical to the previous one, showing the MNOA interface. However, it includes a vertical arrow pointing upwards from the bottom center towards the blue "Analyze" button, which is labeled "Analyse Button" below it. This visual cue indicates where the user should click to run the analysis.

Step 5: View Your Results

The analysis will run instantly. The results will appear in the panels on the right side of the screen. You can click on the different section headers (like "Overall List Stats", "Round By Round Stats") to expand and view the details.

The screenshot shows the MNOA (Medication Name Overlap Analyzer) interface. On the left, there is a text input field with the placeholder "Paste a list of medication names here...". Below this field is a list of medication names, many of which contain question marks, indicating they were part of the original input list. On the right, there are several analysis results displayed in rounded boxes:

- List Analysed** (click to collapse)
- Overall List Stats** (click to expand):
 - Number of med names provided = 46
 - Number of med names analysed = 43
 - Most Powerful Keystroke = 8
- Round By Round Stats** (click to expand)
- Keystroke Power by Round** (click to expand)
- All Overlaps by Round** (click to expand)

Understanding the Results:

- List Analysed:** The final, alphabetized list of names. Any medication name from the original input list that included a question mark (?) has been removed.
- Overall List Stats:** Shows how many names you started with ("Number of med names provided"), how many were in the final list after cleaning ("Number of med names analysed"), and the round number of the "Most Powerful Keystroke."
- Round-by-Round Stats:** Shows each round of character-length analysis. For every round, you'll see how many names remain unresolved, how many have been resolved so far, and the KP (Keystroke Power) metrics that indicate how much that round contributed.
- Keystroke Power by Round:** Shows the keystroke power values for each round, including both **KPraw** and **%KP**. KPraw reflects how many overlapping names were resolved in that round, while %KP shows the proportion of the total disambiguation work contributed by that round.
- All Overlaps by Round:** Displays the prefixes formed at each analysis round and the names mapped to each prefix. This section indicates where overlaps persist and where prefixes resolve into single, distinct names.

That's it! You have successfully used the MNOA tool online to analyze your medication list.