



# **Rx2Label:**

# **AI-powered Prescription**

# **Processing**

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# Problem & Solution

## Problem:

Prescription errors are common, leading to patient safety risks and delays in pharmacy workflows.

## Solution:

Rx2Label uses Pixtral-12B and rule-based algorithms to transcribe, validate, and label prescriptions automatically, reducing errors and saving time for pharmacists and patients.





# Rx2Label in Action

The screenshot displays the Rx2Label web application running on a browser at localhost:3000. The interface is divided into three main sections:

- Prescription Label:** A scanned image of a handwritten prescription label from Dr. B. Who, Farmstreet 12, Kirkville, tel. 3876. The label includes the date 1 Nov 1994 and the prescription: Amoxicillin 50 mg/ml susp. in 100 ml. 3dd 5 ml. Finish course (add 5 ml spoon). The label is signed by B. Who. Below the image is a file selection button labeled "Choose file 2.png" and a "Process" button.
- Transcription:** A text area displaying the transcribed text from the label: "Dr B. Who Farmstreet 12 Kirkville tel. 3876 R/ date 1 nov 1994 Amoxicillin 50 mg/ml susp. os 100 ml 1. 3dd 5 ml. Finish course (add 5 ml spoon) B. Who Ms/Mr Patient 29 address: age: 5 years".
- Clinical Check:** A section showing the results of a clinical check. It includes the drug name "Amoxicillin", the dosage instructions "Take 5 ml three times a day for three days. Finish the course.", the word "PHARMACY" in green, the date "06/10/2024", and a green checkmark indicating "Passed Clinical Check." Below this, a detailed explanation states: "The prescription dosage for Amoxicillin is 5 ml every 8 hours for a 5-year-old child. According to the SMPC, for children under 40 kg, the dosage is 25 mg/kg/day. Assuming the child weighs around 20 kg (a typical weight for a 5-year-old), the dosage would be approximately 500 mg per day. Given every 8 hours, this would be around 166.7 mg per dose, which is close to the 5 ml suspension that contains 50 mg/ml (i.e., 5 ml of 50 mg/ml suspension provides 250 mg)." A mouse cursor is visible near the bottom of this section.




# What's Next for Rx2Label

- Expand to handle multi-drug prescriptions and improved accuracy through finetuning.
  - Increase SmPC dataset beyond the 10 drugs covered in the MVP.
  - Integrate into doses.ai for real-world pharmacy use in the future.
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# Merci !



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