

# HealthTranslate - User Guide

## Quick Start




### First Time Setup

1. **Open the app** in Chrome, Safari, or Edge
2. **Allow microphone access** when prompted
3. **Select your languages** from the dropdown menus
4. **Click "Start Recording"** and begin speaking
5. **View translation** in real-time

## Main Features

### Voice Recording

#### How to Record Speech:


1. Click the "  **Start Recording**" button
2. Speak clearly into your microphone
3. Watch your speech appear in the "  **Original Speech**" panel
4. Click "  **Stop Recording**" when finished

#### Tips for Better Recognition:


- Speak at normal pace, not too fast or slow
- Use clear pronunciation
- Minimize background noise
- Hold device 6-12 inches from your mouth

## Real-Time Translation

#### Automatic Translation:


- Translation happens automatically as you speak
- View results in the "  **Translation**" panel
- Translations appear after you finish each sentence

#### Language Selection:

- **Speaking Language:** What you're speaking
- **Translation Language:** What you want it translated to
- Use the  **swap button** to quickly switch languages

## Audio Playback

### Listen to Translations:

1. Complete a translation
2. Click the " **Speak**" button in the translation panel
3. Hear the translation spoken aloud
4. Adjust your device volume as needed

## Using on Mobile Devices

### Mobile Optimization

- **Responsive Design:** Works perfectly on phones and tablets
- **Touch-Friendly:** Large buttons for easy tapping
- **Vertical Layout:** Stacked panels for mobile viewing

### Mobile Tips

- **Use headphones** for better audio in noisy environments
- **Hold device steady** during recording
- **Ensure good lighting** if using in clinical settings

## Language Support

### Supported Languages

#### For Speech Input:

- US **English** (US)
- ES **Spanish** (Spain/Mexico)
- FR **French**
- DE **German**
- IT **Italian**
- BR **Portuguese**
- CN **Chinese** (Mandarin)
- JP **Japanese**
- KR **Korean**
- SA **Arabic**
- IN **Hindi**
- RU **Russian**

## For Translation Output:

All above languages plus regional variants

## Language Tips

- **Medical Terms:** App recognizes common medical vocabulary
- **Proper Nouns:** Spell out medication names clearly
- **Numbers:** Speak numbers slowly (e.g., "twenty milligrams")

## Healthcare Use Cases

### Common Scenarios

#### 1. Patient Intake

Doctor: "What brings you in today?"

→ Translation: "¿Qué le trae aquí hoy?"

Patient: "Me duele el pecho"

→ Translation: "My chest hurts"

#### 2. Symptom Assessment

Doctor: "On a scale of 1 to 10, how is your pain?"

→ Translation: "En una escala del 1 al 10, ¿cómo es su dolor?"






#### 3. Treatment Instructions

Doctor: "Take this medication twice daily with food"



→ Translation: "Tome este medicamento dos veces al día con comida"



## Controls & Functions

### Button Guide

-  **Start Recording:** Begin voice capture
-  **Stop Recording:** End current recording session
-  **Clear All:** Reset both transcript panels
-  **Speak:** Play audio of translation
-  **Swap Languages:** Switch input/output languages

### Status Messages

-  **Listening...** Voice recording is active
-  **Translating...** Processing translation

-  **Translation completed** Success message
-  **Error messages** Troubleshooting info

## Troubleshooting

### Common Issues & Solutions

#### "Microphone access denied"

- **Solution:** Go to browser settings → Allow microphone access
- **Chrome:** Click lock icon in address bar → Allow microphone
- **Safari:** Safari → Preferences → Websites → Microphone

#### "No speech detected"

- **Check:** Microphone is not muted
- **Try:** Speaking louder and clearer
- **Ensure:** No background noise interference





#### "Translation not working"

- **Check:** Internet connection is stable
- **Note:** App shows "Demo mode" if translation service unavailable
- **Refresh:** Page and try again

#### "Speech synthesis not working"

- **Check:** Device volume is turned up
- **Try:** Different browser (Chrome recommended)
- **Note:** Some browsers may not support all languages

### Browser Compatibility

-  **Chrome:** Full functionality (recommended)
-  **Safari:** Full functionality on Mac/iOS
-  **Edge:** Full functionality on Windows
-  **Firefox:** Limited speech recognition support

## Privacy & Security

### Data Handling

- **No Storage:** Your conversations are not saved
- **Session Only:** Data cleared when you close the app
- **Local Processing:** Speech recognition happens in your browser

- **API Calls:** Only text is sent for translation, not audio

### Best Practices for Healthcare

1. **Follow HIPAA Guidelines:** Check with your organization's IT policy
2. **Verify Translations:** Always confirm critical medical information
3. **Use in Appropriate Settings:** Consider patient privacy
4. **Backup Communication:** Have alternative communication methods ready

### Compliance Notes

- **Not a Medical Device:** This is a communication tool, not diagnostic software
- **Professional Judgment:** Healthcare providers should verify all translations
- **Emergency Situations:** Use professional interpreters for critical care

### Pro Tips

#### Maximizing Accuracy

1. **Speak Naturally:** Don't over-articulate or speak too slowly
2. **Pause Between Sentences:** Allows for better processing
3. **Medical Terminology:** Spell out complex drug names
4. **Background Noise:** Find quiet areas for better recognition

#### Efficient Workflow

1. **Pre-select Languages:** Set up language pairs before patient encounters
2. **Test Equipment:** Check microphone and speakers beforehand
3. **Practice Phrases:** Familiarize yourself with common translations
4. **Keep Backup Methods:** Have written materials as alternatives

#### Mobile Usage

- **Battery Management:** Close other apps to conserve power
- **Network Connection:** Ensure stable internet for translations
- **Screen Orientation:** Landscape mode for better visibility
- **Accessibility:** Use larger text settings if needed

## **Support & Feedback**

### **Getting Help**

- **Browser Issues:** Update to latest browser version
- **Feature Requests:** Document specific healthcare use cases
- **Bug Reports:** Note browser, device, and error messages

### **Continuous Improvement**

This app is designed to evolve based on healthcare professional feedback. Your input helps improve accuracy and functionality for medical communication needs.