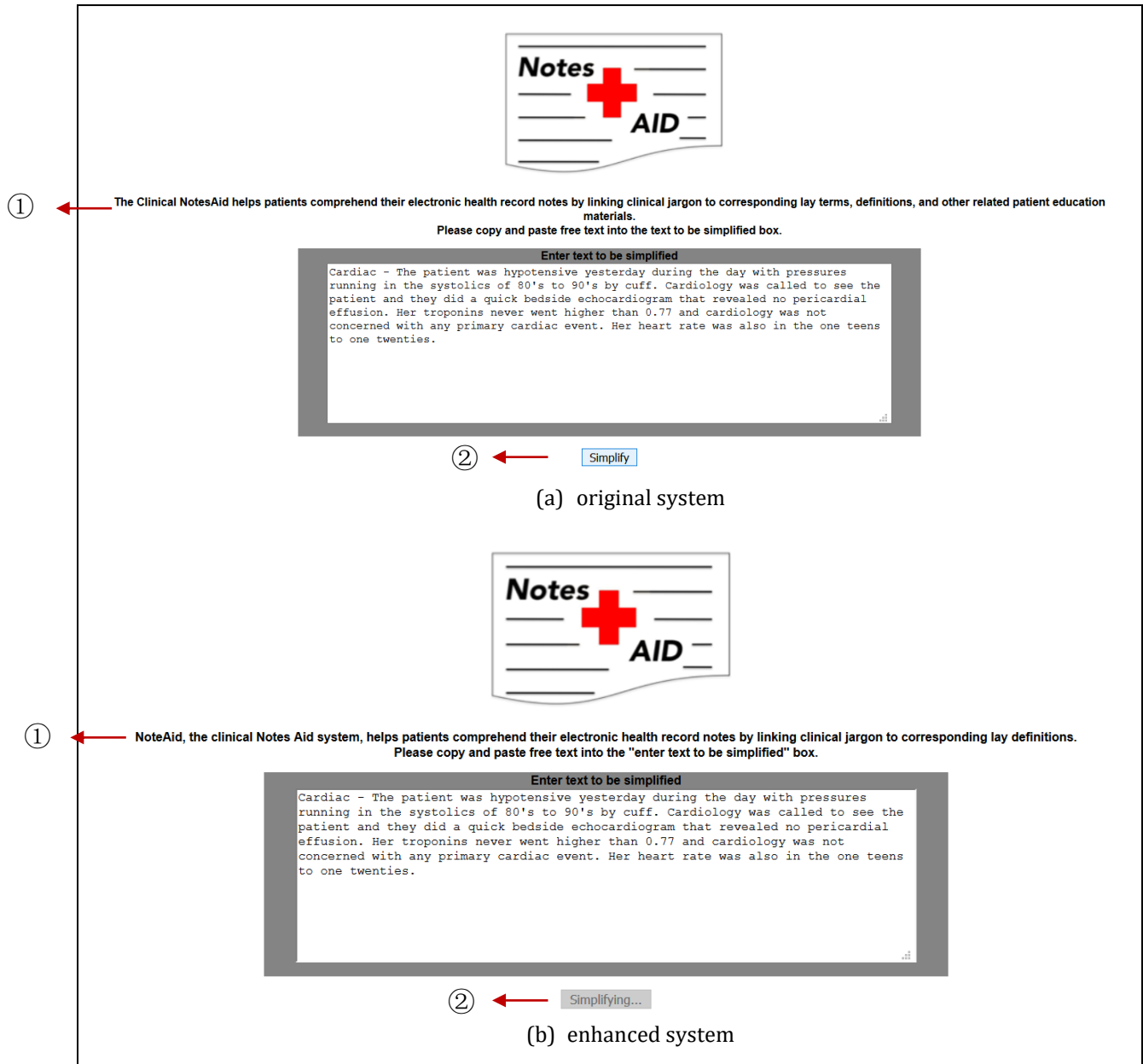## Multimedia Appendix 6. User interfaces of the original NoteAid system used in this study and the system with post-evaluation enhancements

Figure A6-1. Comparison of user interfaces of the original NoteAid system and the enhanced system when they are processing the input text

(a) original system

(b) enhanced system

Notes:

① The new system improved clarify of the introduction text for the NoteAid system

② The new system disables and greys out the "simplify" button when the system starts to process the input text and re-enables it after the processing completes

Figure A6-2. Comparison of the original NoteAid system and the enhanced system in displaying system output

The Clinical NotesAid helps patients comprehend their electronic health record notes by linking clinical jargon to corresponding lay terms, definitions, and other related patient education materials.
Please copy and paste free text into the search box.

①

Here is some sample text

Cardiac - The patient was hypotensive yesterday during the day with pressures running in the systolics of 80's to 90's by cuff. Cardiology was called to see the patient and they did a quick bedside echocardiogram that revealed no pericardial effusion. Her troponins never went higher than 0.77 and cardiology was not concerned with any primary cardiac event. Her heart rate was also in the one teens to one twenties.

Simplified sample text with CoDeMed (Common Definition in Medicine) definitions

Cardiac - The patient was hypotensive yesterday during the day with pressures running in the systolics of 80 ' s to 90 ' s by cuff. Cardiology was called to see the patient and they did a quick bedside echocardiogram that revealed no pericardial effusion. Her troponins never went higher than 0.77 and cardiology was not concerned with any primary cardiac event. Her heart rate was also in the one teens to one twenties.

② ← Simplify

(a) original system

NoteAid, the clinical Notes Aid system, helps patients comprehend their electronic health record notes by linking clinical jargon to corresponding lay definitions.
Please copy and paste free text into the search box.

①

Enter text to be simplified

Cardiac - The patient was hypotensive yesterday during the day with pressures running in the systolics of 80's to 90's by cuff. Cardiology was called to see the patient and they did a quick bedside echocardiogram that revealed no pericardial effusion. Her troponins never went higher than 0.77 and cardiology was not concerned with any primary cardiac event. Her heart rate was also in the one teens to one twenties.

② ← Simplify

Simplified sample text with CoDeMed (Common Definition in Medicine) definitions

Cardiac - The patient was hypotensive yesterday during the day with pressures running in the systolics of 80 ' s to 90 ' s by cuff. Cardiology was called to see the patient and they did a quick bedside echocardiogram that revealed no pericardial effusion. Her troponins never went higher than 0.77 and cardiology was not concerned with any primary cardiac event. Her heart rate was also in the one teens to one twenties.

(b) enhanced system

Notes:

① The new system improved clarify of the input box label

② The new system keeps the simplify button right below the input box