

Appendix E-1 Time Trade-Off Questionnaire**Health State Time Trade-Off****Age:****Sex: Male/Female****Do you consider yourself right-handed or left-handed? Right/Left/Both**

Instructions: You will be asked to complete a questionnaire called the “Time Trade-Off” in which you imagine what it would be like to live in four different situations following a wrist fracture. You will then be asked to determine how that condition compares to living with a normal wrist.

Description of Health States**Health State 1. Painless Malunion**

You have broken the wrist of your dominant arm. After treatment, it has healed. Compared to using your other wrist, you notice no difference when performing everyday tasks like opening doors, writing, or typing. You have slightly decreased grip strength and range of motion such that you notice mild difficulty when playing sports like golf or tennis. You have no pain on the affected side, but you have a noticeable bump on the back of your wrist.

Health State 2. Painless Functional Deficit

You have broken the wrist of your dominant arm. After treatment, it has healed. Compared to using your other wrist, you have minor difficulty when performing everyday tasks like opening doors, writing, or typing. You have moderately decreased grip strength and range of motion such that you have trouble playing sports like golf or tennis. You have no pain in the affected wrist.

Health State 3. Painful Malunion

You have broken the wrist of your dominant arm. After treatment, it has healed. Compared to using your other wrist, you have difficulty and pain when performing everyday tasks like opening doors, writing, or typing. You have decreased grip strength and range of motion such that you are unable to open jars with the affected hand, and have trouble with fine motor activities like threading a needle or winding your watch. You have pain when using the affected hand and sometimes at rest. There is also a noticeable bump on the back of your wrist.

Health State 4. Reflex Sympathetic Dystrophy

You have broken the wrist of your dominant arm. After treatment, it has healed. However, you have developed a syndrome in your wrist that causes frequent pain, swelling, discoloration, sweating, and weakness. You have significantly impaired function of your wrist and hand such that you cannot work. Frequent physician and physical therapy visits are required for treatment.

SAMPLE OF TIME TRADE-OFF QUESTION: HEALTH STATE 2
(each respondent will complete the time trade-off for each of the 4 health states)

Painless Functional Deficit

You have broken the wrist of your dominant arm. After treatment, it has healed. Compared to using your other wrist, you have minor difficulty when performing everyday tasks like opening doors, writing, or typing. You have moderately decreased grip strength and range of motion such that you have trouble playing sports like golf or tennis. You have no pain in the affected wrist.

**No Wrist Fracture and
Normal Function**

You never sustained a wrist fracture and have your normal function.

Now imagine you can choose among the following options. Please indicate which option you prefer.

Live for **20 years** with *painless functional deficit* and then die (give up no time).

Live for **XX years** with *no wrist fracture and normal function* and then die (give up 20-XX years).

It is too hard to choose.

The interviewer administering the survey determines the respondents' utilities for the four health states using the template above. The only change in the template for each health state is the title of the health state and health state descriptor (above). The respondent is initially asked to choose between 20 years in the affected health state and 10 years in the "no wrist fracture and normal function" health state. The amount of time in the "no wrist fracture and normal function health state" (indicated by **XX** in the above template) is then varied systematically until the respondent reaches a state of indifference and chooses "It is too hard to choose."