# JDRF Artificial Pancreas Project Randomized Clinical Trial Complication Utilities- Parent Version tblASurveyCompP

Patient ID:	PtID

#### **COMPLICATION UTILITIES**

**Throughout this study, we have asked you** to consider the quality of life effects of diabetes and its treatments. It is also important for us to understand how much of an impact different complications would have on your child's life. We will be asking you again the same type of imaginary questions we have asked during earlier parts of the study. If these questions make you uncomfortable, we may stop.

Drimory garagiyan	E-10
Primary caregiver:	 EduCareGvrP

## Interviewer:

The time tradeoff questions begin at this point.

Use the "Time frame" that corresponds to the age of the patient to select the correct the hierarchical diagrams beginning on page 4. The hierarchical diagram must be used in conjunction with every section below (Blindness, Kidney Failure, Chest Pain Related to Heart Disease, Severe Stroke and Living Without Part of your Lower Leg).

Age of patient	Time frame*
8-15	50
15-25	40 TimeFrameP
25-35	30
>35	20

\*Note: The selected **Time frame** will be used with the hierarchical diagrams beginning on page 4.

The first question is simply a choice between the full time in current health vs. the full time in perfect health. If parent chooses full time in current health then discuss answer, determine if parent intends answer and go to next question. All questions are a choice between 1) "X years in perfect health" 2) "Y years with condition" or 3) "No preference, because these seem about the same". The questions in every section (*Blindness*, *Kidney Failure*,...) must be asked six different times using the hierarchical diagram flow or until the patient chooses "No preference". If this section is unclear please see example at the end of this document.

## 1. Blindness

Imagine a life with **blindness**:

- Your child would not be able to read, see the TV, or drive a car.
- Your child may also need assistance with many day-to-day tasks such as cooking, cleaning, dressing him/herself, and bathing.
- Your child may also need assistance taking his/her medications.

Imagine your child had the following choice, which would he/she prefer?

<ul> <li>☐ years living with blindness</li> <li>☐ years in perfect health</li> <li>☐ No preference, because these seem about the same to him/her</li> </ul>	BlindChoice1P, BlindChoice2P, BlindChoice3P, BlindChoice4P, BlindChoice5P BlindChoice6P
Parent refuses to continue 'blindness' question BlindRefContP	

Interviewer: If patient chooses living with diabetes then discuss answer, determine if patient intends answer and go to next question.

# 2. End-stage renal disease

Imagine a life with **kidney failure**:

- Your child would experience fatigue, bone problems, joint problems, itching, and 'restless legs'.
- Your child would need to have dialysis 3 times per week and this procedure usually lasts 3-5 hours.
- Your child may need to make changes in his/her work or home life to maintain this schedule.
- During dialysis your child is attached to a machine. To do this, a needle is inserted into tubing that has been placed under the skin of his/her arm. The machine then filters the blood to get rid of waste products.
- Your child may sometimes feel sick or tired for a few hours after he/she has had dialysis.

Imagine your child had the following choice, which would he/she prefer?

☐ years living with kidney failure		RenalChoice1P, RenalChoice2P
☐ years in perfect health	٢	RenalChoice3P, RenalChoice4P
☐ No preference, because these seem about the same to him/her		RenalChoice5P, RenalChoice6P
Parent refuses to continue 'kidney failure' question RenalRefConti	P	

Interviewer: If patient chooses living with diabetes then discuss answer, determine if patient intends answer and go to next question.

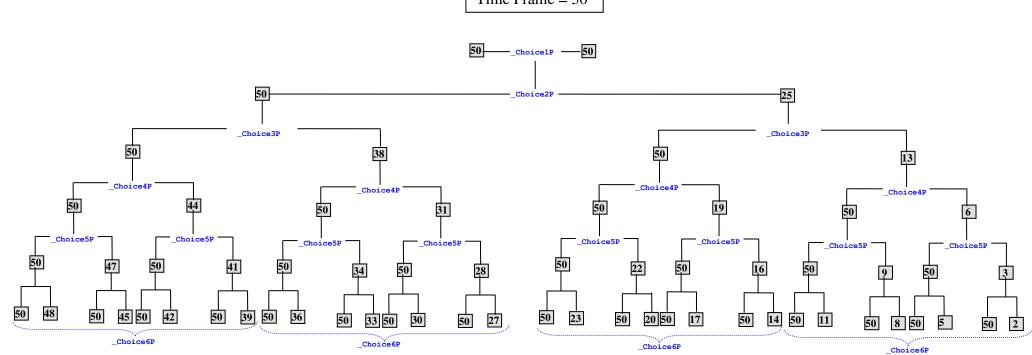
# 3. Chest pain related to heart disease

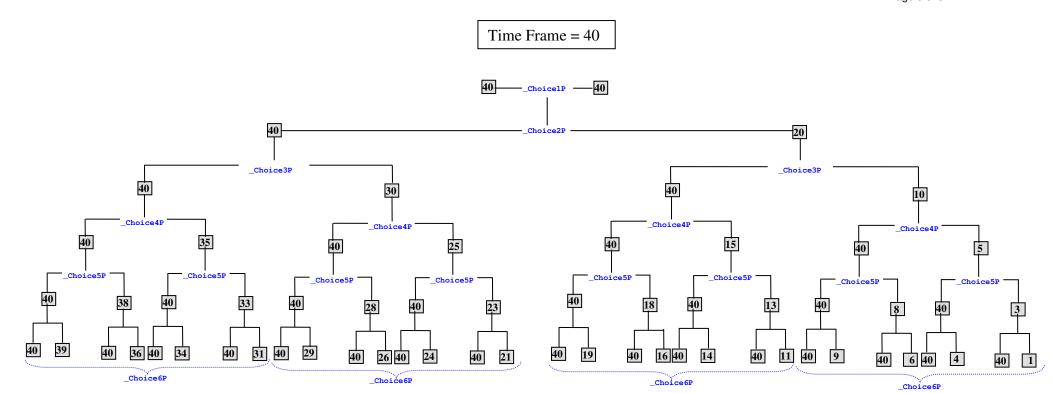
Imagine living with **chest pain related to heart disease**:

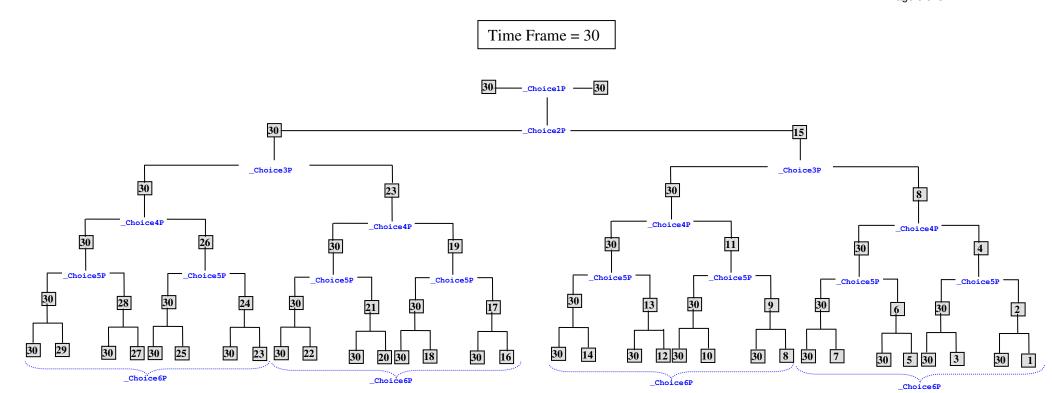
- Your child experiences chest pain after walking a block or two but can relieve the pain by stopping or taking medicine.
- Your child's energy level may be low some of the time.

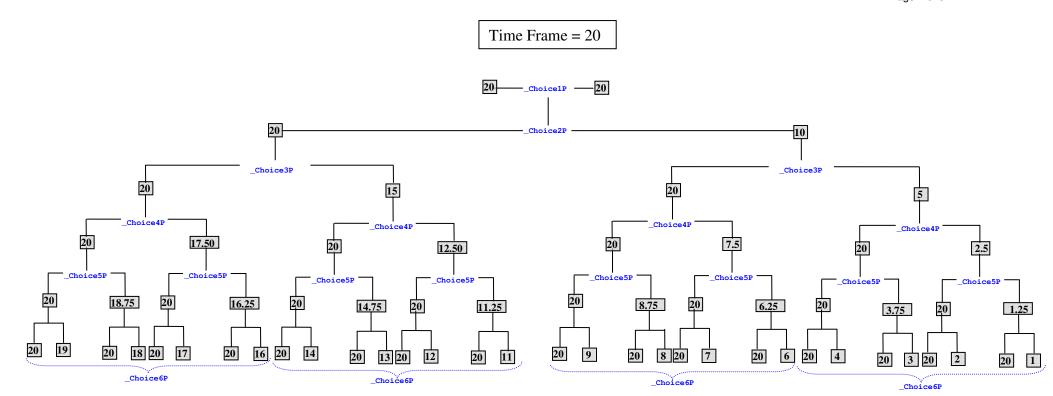
• Your child can bathe and dress him/herself, and feed him/herself imagine your child had the following choice, which would he/she present the same and dress him/herself.	•
$\Box$ years living with heart disease	ChestPnChoice1P, ChestPnChoice2P,
$\Box$ years in perfect health	ChestPnChoice3P, ChestPnChoice4P,
☐ No preference, because these seem about the same to him/her	
☐ Parent refuses to continue 'chest pain related to heart disease' que	stion ChestPnRefContP
Interviewer: If patient chooses living with diabetes then discuss answer, determine question.	e if patient intends answer and go to next
4. Stroke	
Imagine life after having a <b>severe stroke</b> :	
• Your child cannot move the arm or leg on the side that he/she writ	
• Your child can stand with a leg brace and walk a short distance wi	th help.
• Your child can use a wheel chair. Your child cannot climb stairs.	
<ul> <li>Your child needs help to dress, bathe, and use the bathroom. You eating food.</li> </ul>	r child needs help preparing and
<ul> <li>Your child might have difficulty speaking or finding the right wor</li> </ul>	ds.
Imagine your child had the following choice, which would he/she pre-	fer?
☐ years living with stroke	StrokeChoice1P, StrokeChoice2P,
☐ years in perfect health	StrokeChoice4P, StrokeChoice4P,
☐ No preference, because these seem about the same to him/her	StrokeChoice5P, StrokeChoice6P
☐ Parent refuses to continue 'severe stroke' question StrokeRefContF	
Interviewer: If patient chooses living with diabetes then discuss answer, determine question.	e if patient intends answer and go to next
5. Living without part of your lower leg or foot	
Imagine a life after your child has lost part of his/her lower leg or foo	t:
• Your child may be able to walk with an artificial leg, or your c	
get around.	-
<ul> <li>Your child might have some difficulty performing daily tasks his/her house.</li> </ul>	such as driving, shopping, or cleaning
Imagine your child had the following choice, which would he/she pres	fer?
☐ years living without part of his/her lower leg or foot	LostLegChoice1P, LostLegChoice2P,
☐ years in perfect health	LostLegChoice3P, LostLegChoice4P,
☐ No preference, because these seem about the same to him/her	LostLegChoice5P, LostLegChoice6P
☐ Parent refuses to continue 'lost lower leg or foot' question	
☐ Parent refuses to continue survey LostLegRefContP	

Time Frame = 50









### Fictitious example for the Blindness section:

An investigator is asking Joe (parent) questions about his daughter. Joe' daughter is 14 years old which puts her "**Time Frame**" equal to **50**. The investigator asks Joe the following question using the hierarchical diagram flow to plot the number of years for each question.

Question 1: Imagine your child had the following choice, which would he/she prefer; 50 years living with blindness or 50 years in perfect health? \_Choice1P Answer: 50 years in perfect health

Question 2: Which would he/she prefer; 50 years living with blindness or 25 years in perfect health? \_Choice2P Answer: 50 years living with blindness

Question 3: Which would he/she prefer; 50 years living with blindness or 38 years in perfect health? \_Choice3P Answer: 38 years in perfect health

Question 4: Which would he/she prefer; 50 years living with blindness or 31 years in perfect health? \_Choice4P Answer: 31 years in perfect health

Question 5: Which would he/she prefer; 50 years living with blindness or 28 years in perfect health? \_Choice5P Answer: 50 years living with blindness

Question 6: Which would he/she prefer; 50 years living with blindness or 30 years in perfect health? \_Choice6P Answer: 30 years in perfect health

The red boxes represent Joe's choices for the Blindness section. Please note that if Joe had chosen "No Preference" at any point this section would be over.

The same approach must be applied to all sections of this survey (Blindness, Kidney Failure, Chest Pain, Severe Stroke and Living without Part of your Leg).

