

## Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to: Deeb W, Salvato B, Almeida L, et al. Fornix-region deep brain stimulation–induced memory flashbacks in Alzheimer’s disease. *N Engl J Med* 2019;381:783-5. DOI: [10.1056/NEJMc1905240](https://doi.org/10.1056/NEJMc1905240)

The authors acknowledge the ADvance study participants, investigators, and research teams.

This supplement details the different experiences of the individual patients in the ADvance trial during the initial programming visit (2 weeks post implantation). Each patient's experiences are organized in table by stimulation voltage, contact number, and type. The type of stimulation-induced experience is color coded as follows: **autonomic**, **sensory**, **motor**, **psychiatric**, **visual**, **olfactory**, **non-specific cognitive**, and **memory recollections**. The cells in the table are grayed out until the first experience. Shaded cells indicate absence of testing at that combination of voltage and contact number – this can be due to side effects, patient fatigue, or other complications.

Following this table, each patient's heart rate at each voltage/contact number combination is graphed. Contacts 0, 1, 2, 3 are by convention on the left side of the brain and contacts 8, 9, 10, 11 are on the right side – both are arranged linearly from distal (ventral) to proximal (dorsal).

Patients with vivid memories are distinguished in the table of contents by either one asterisk (vivid spatiotemporal details) or two asterisks (vivid spatiotemporal and phenomenological details – smell, taste, temperature...).

Patient 5 is not included in this document as the records of his initial programming visit are incomplete.

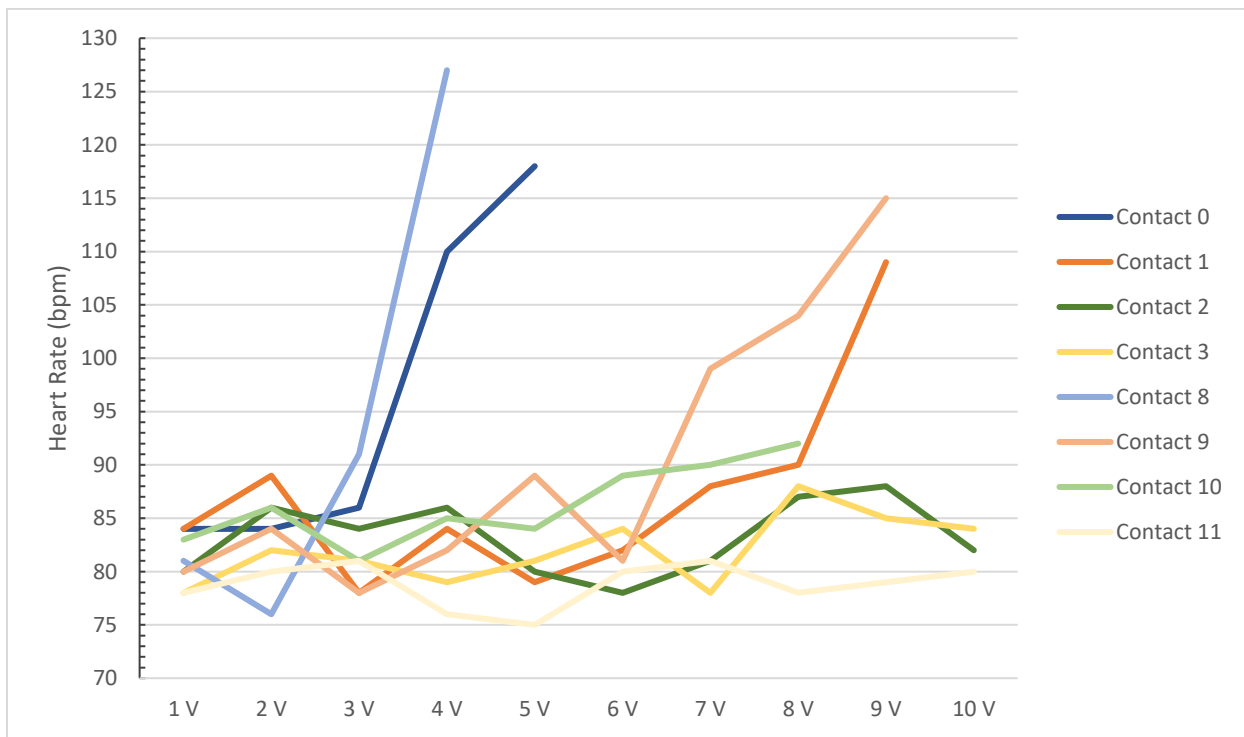
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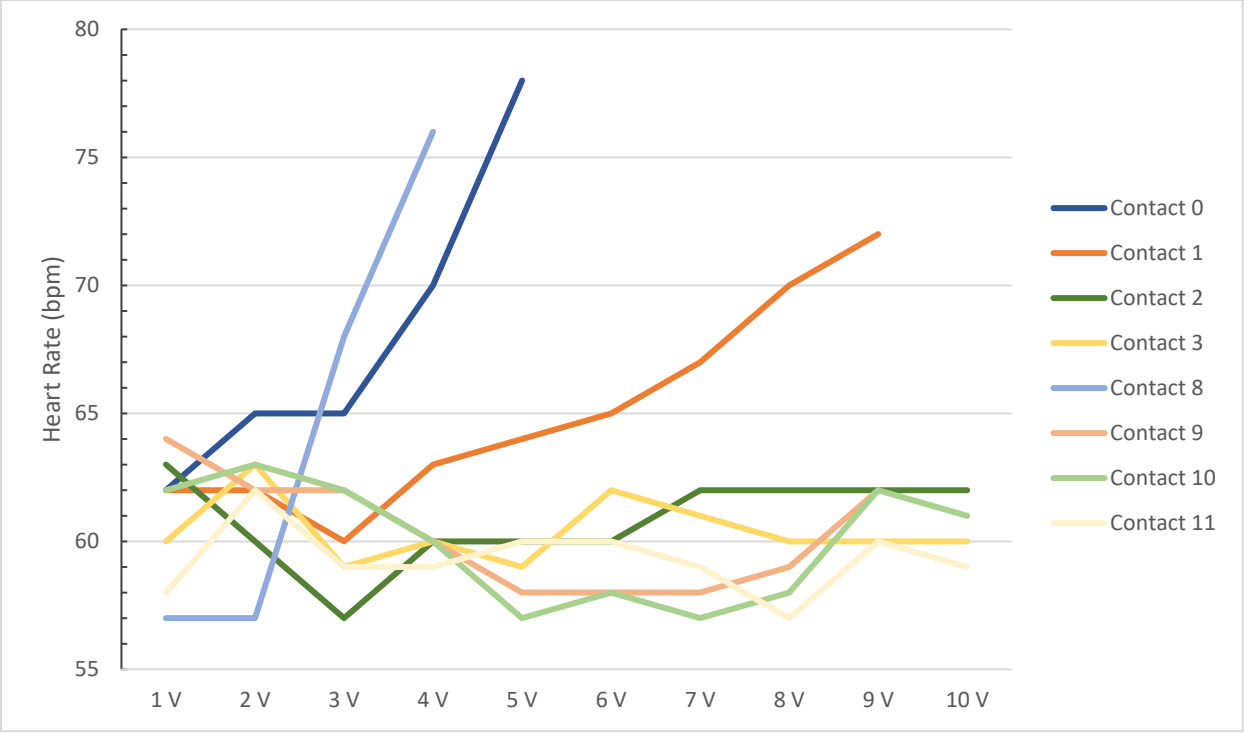
# Patient 1

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Warmth	Palpitations					
1								Warmth in chest	Warmth Dizziness	
2										
3										
8				Warmth Pulsation						
9								Warmth Dizziness		
10							Dizziness Warmth	Warmth		
11										



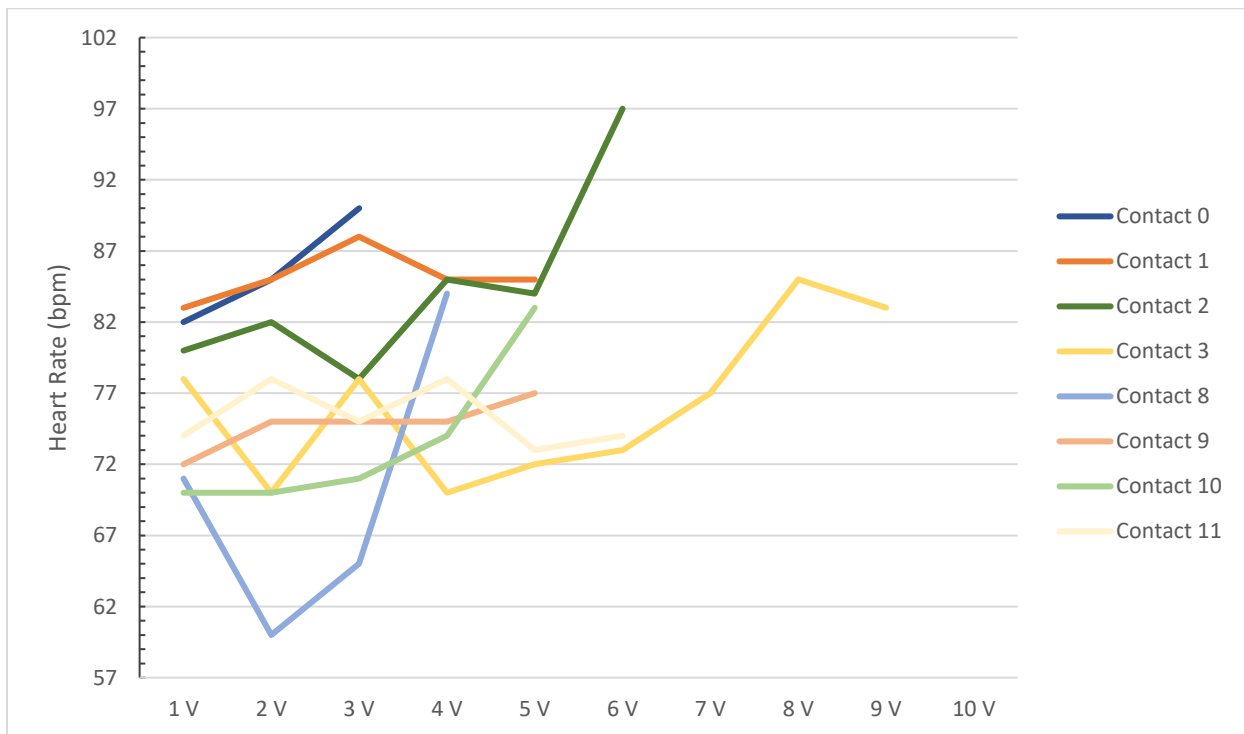
# Patient 2

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Warmth	Buzzing in head	Warmth Buzzing in head					
1				Buzzing in head		Warmth Tingling in chest	Tingling in chest Warmth	Warmth	Warmth	
2					Warmth			Thinking about brother's phone call from a couple of months ago		
3						Feeling in head			Thinking about a dog	
8				Buzzing in head						
9				Thinking about cottage	Thinking about cottage and lake	Thinking about cottage, lake, and water	Thinking about sitting on the porch by the cottage near the lake	Warmth	Warmth	
10										
11										



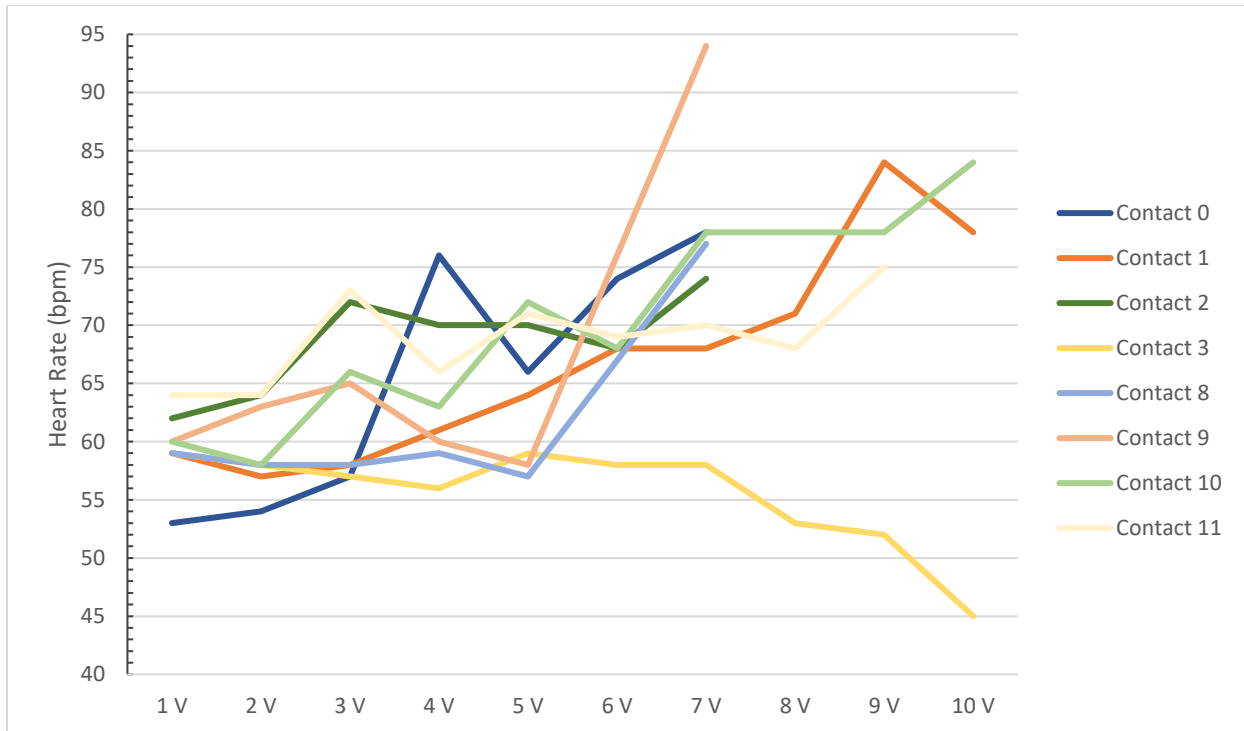
# Patient 3

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0		Tingling in fingers	Nausea							
1			Thirst Throat discomfort	Throat discomfort	Throat discomfort Nausea Anxiety Warmth					
2				Warmth	Warmth in head	Anxiety				
3								Discomfort abdomen and throat	Discomfort Nausea	
8			Nausea	Discomfort						
9				Discomfort	Discomfort					
10				Melancholy	Warmth					
11										



# Patient 4

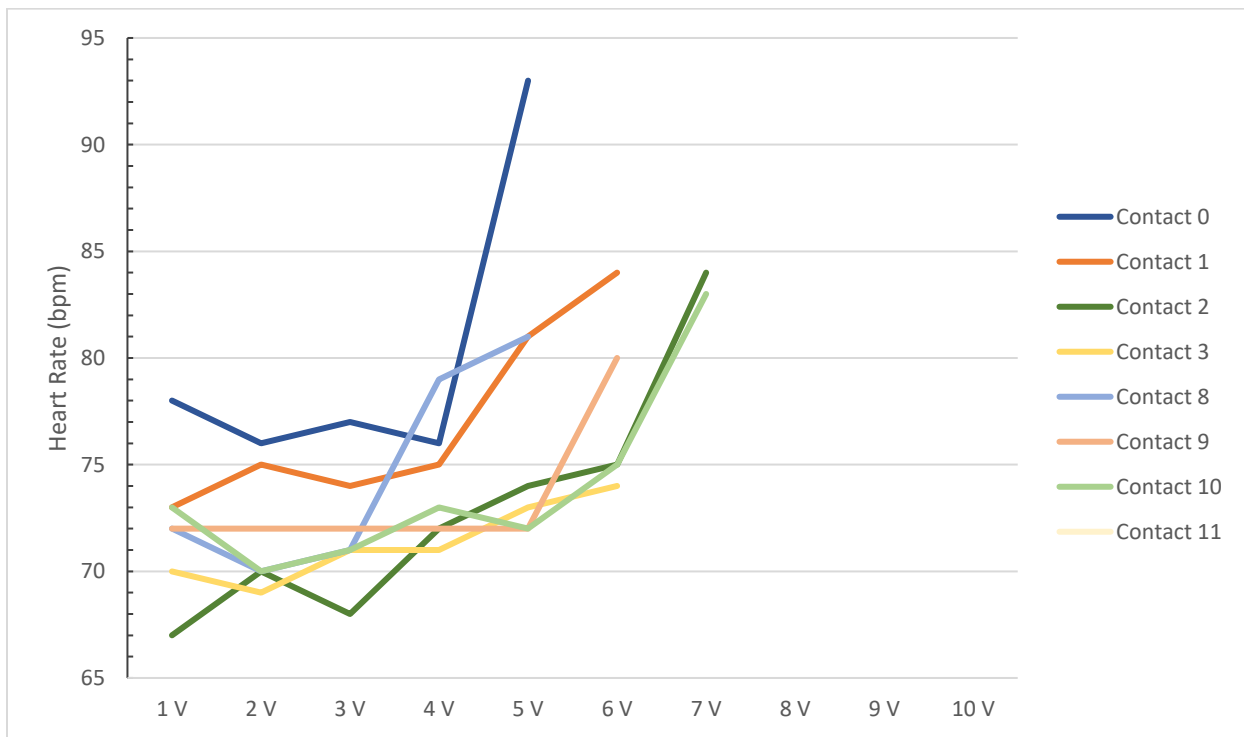
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Cool	Cool	Warmth	Warmth	Warmth			
1							Hot flash	Hot flash		Warmth
2					Tingling in leg Autonomic		Warmth in chest and neck			
3										
8							Tingling tips of left hand Autonomic			
9					Tingling in legs		Cool			
10							Tingling in legs			
11					Tingling in hands	Tingling			Tingling in right leg/thigh	





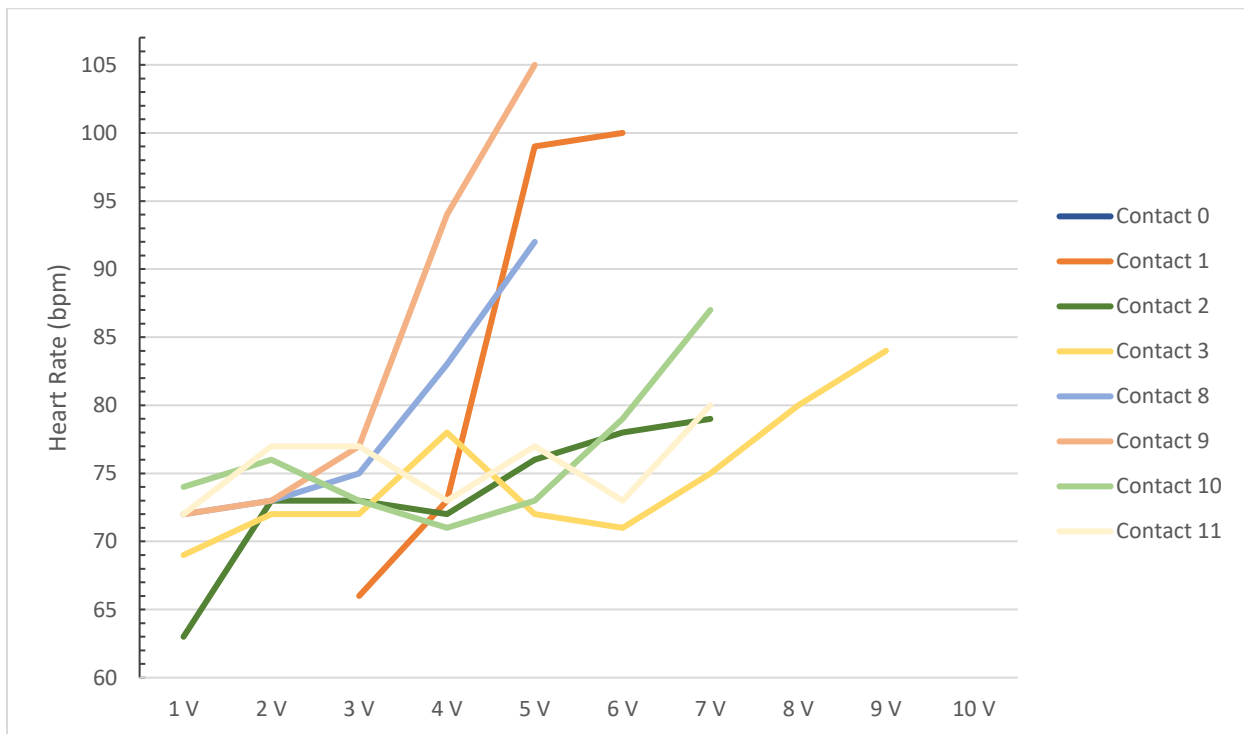
# Patient 6

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Headache		Warmth					
1					Sweating of palms	Warmth Flushing				
2		Cool								
3								Frustrated		
8				Frustrated						
9						Autonomic				
10							Sweating of hands Flushing Warmth			
11										



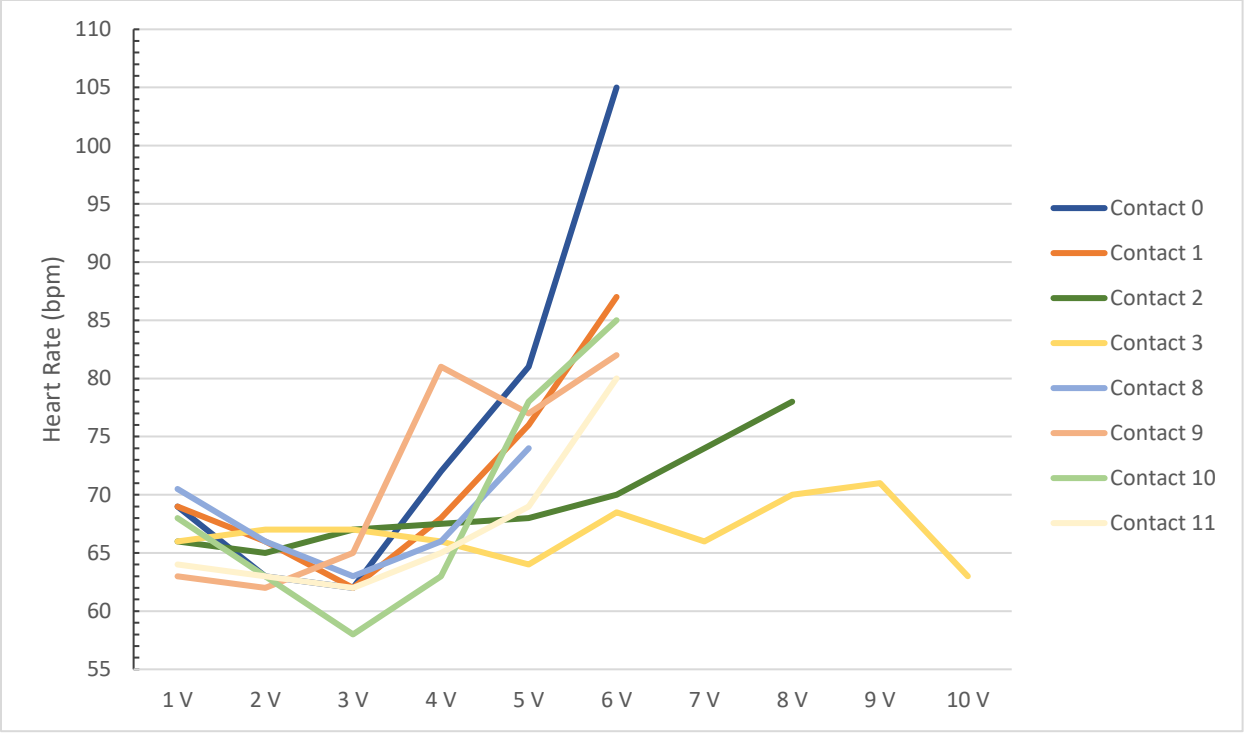
# Patient 7

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Warmth	Warmth Feeling in arms				
1					Flushing Warmth	Warmth				
2						Flushing Warmth Sweating of forehead	Flushing Warmth			
3								Thirsty	Warmth	
8					Warmth					
9				Warmth	Flushing Warmth					
10							Warmth			
11							Warmth Flushing			



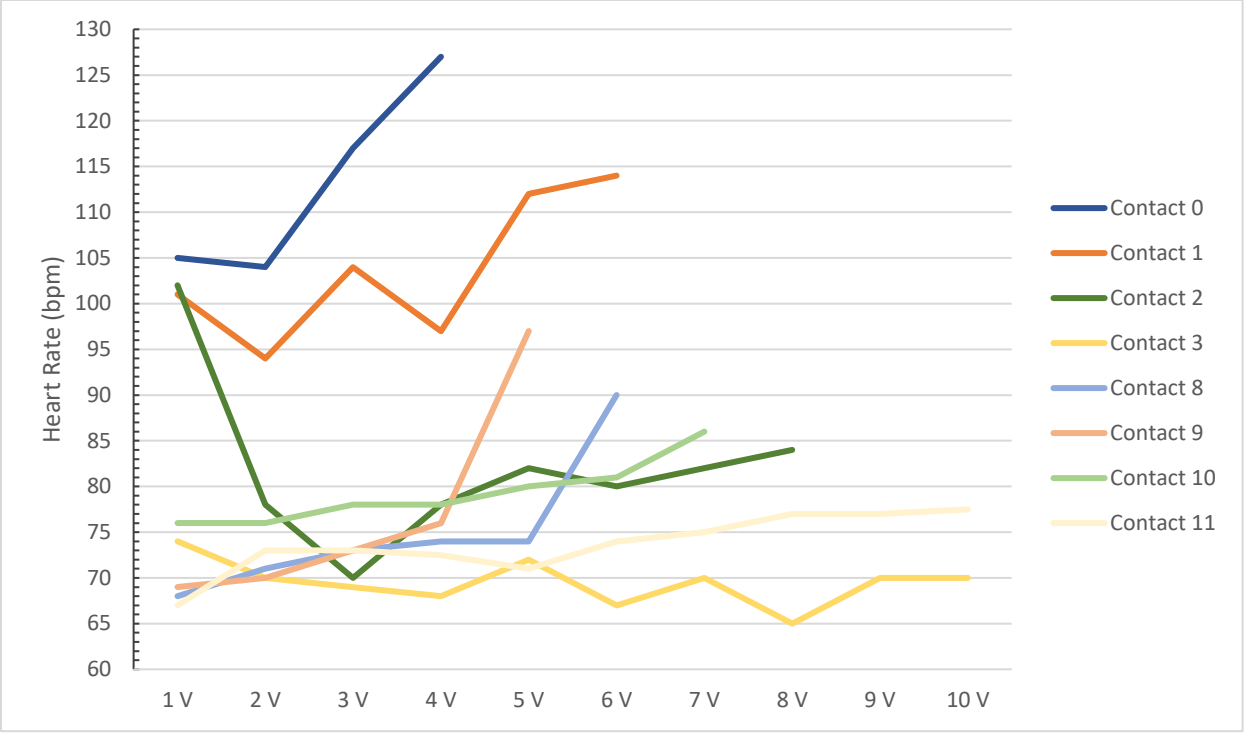
# Patient 8

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Warmth	Flushing of face Warmth	Warmth				
1				Feeling of wound	Warmth	Warmth				
2							Warmth Thinking about living in Scotland as a child	Warmth		
3			Tingling at the wound site			Thinking of time in Scotland and about a merry-go-round	Memory decreased	Thinking of playing with brother on monkey bars and stretching		Tingling in the IPG pocket
8				Warmth	Warmth					
9				Warmth Flushing	Warmth					
10					Warmth Cool	Flushing Hot flash				
11					Warmth	Warmth				



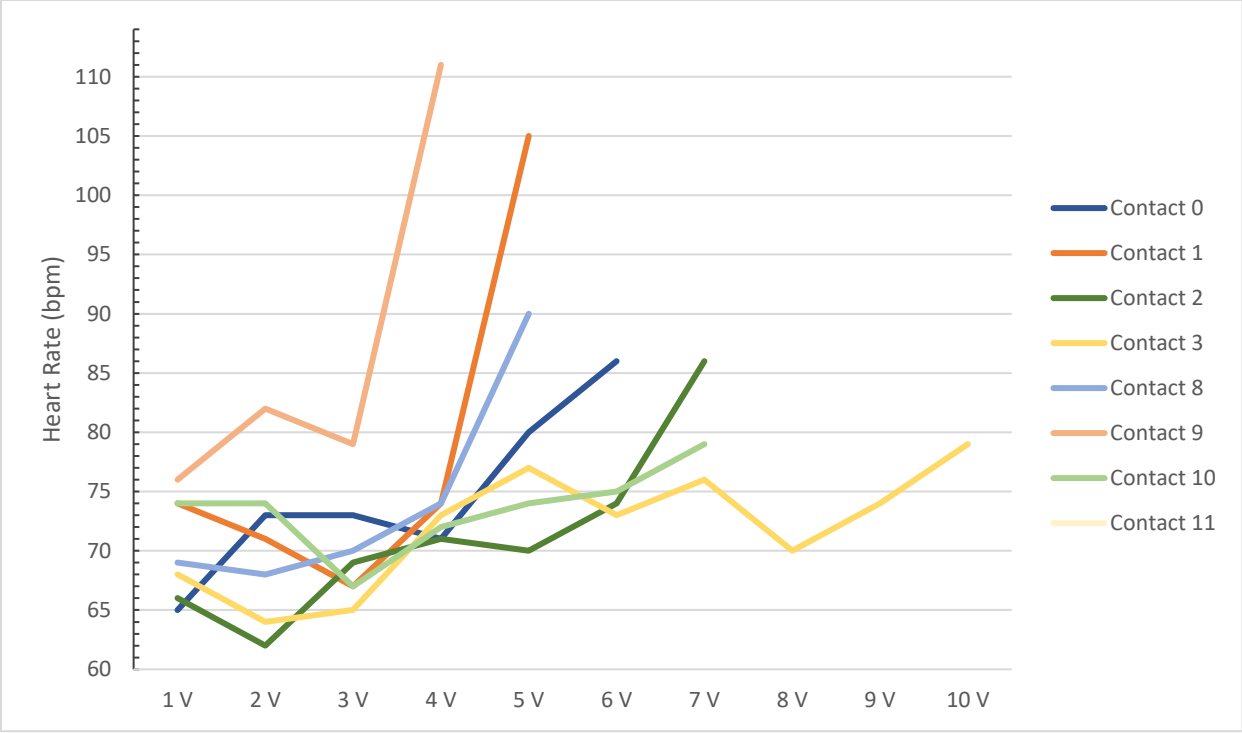
# Patient 9

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Warmth Sweating of palms	Burping Warmth Sweating						
1					Tingling of fingers Jerks Sweating	Cool Burping				
2				Telling story about ore job in 1959	Flushing Cool Sweating	Clammy Flushing	Sweating Flushing	Sweating visibly		
3				Telling work stories	Warmth			Warmth		
8					Warmth	Warmth Clammy Burping	Felt weird Kicked-in to overdrive			
9			Cool fingers	Nausea	Uncomfortable above groin Burping	Burping				
10					Flushing Warmth Clammy	Warmth Clammy	Warmth Sweating Flushing			
11							Warmth Cool fingers	Warmth		Warmth



# Patient 10

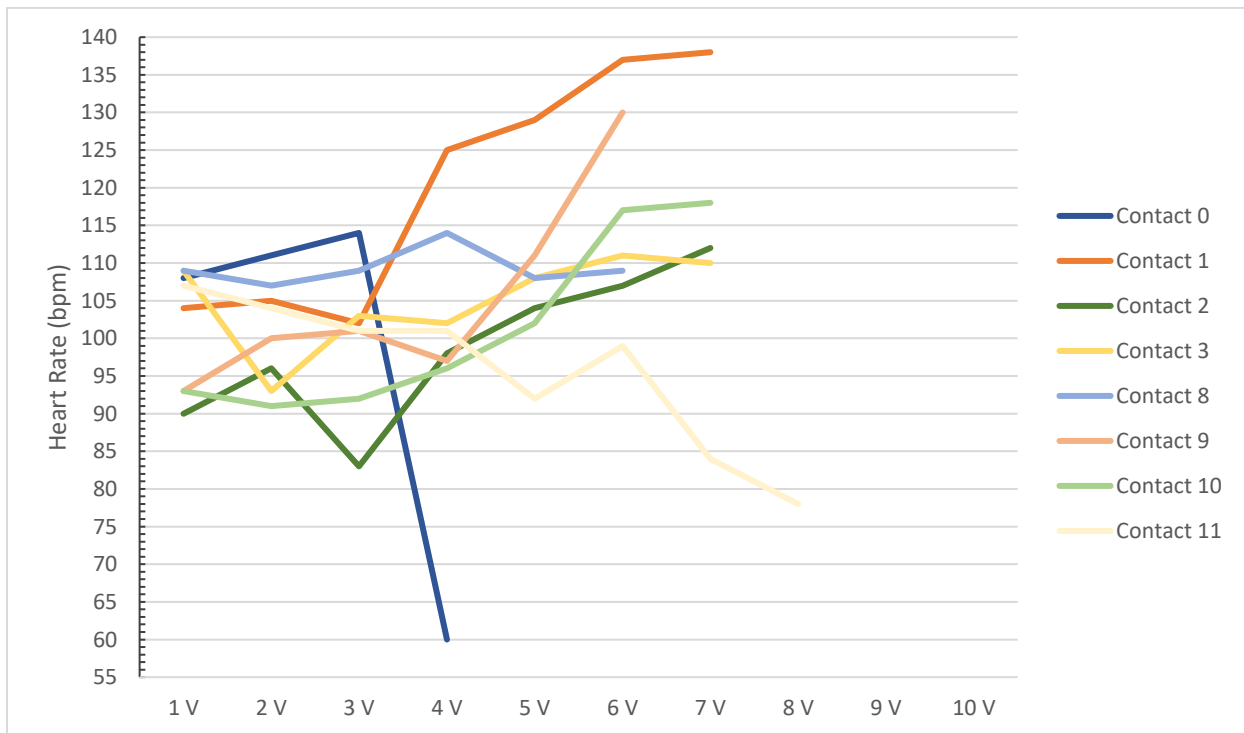
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Sweating of palms	Flushing of hands Butterflies in stomach				
1		Anxiety			Anxiety Cool Burping					
2					Anxiety	Cool	Cool Anxiety			
3				Cool	Feeling full					Patient very tired
8			Cool around the neck	Saw light mist	Cool Stomach growling					
9		Cool around the neck and hands		Flushing Warmth						
10		Stomach growling			Confused	Confused				
11	Confused									





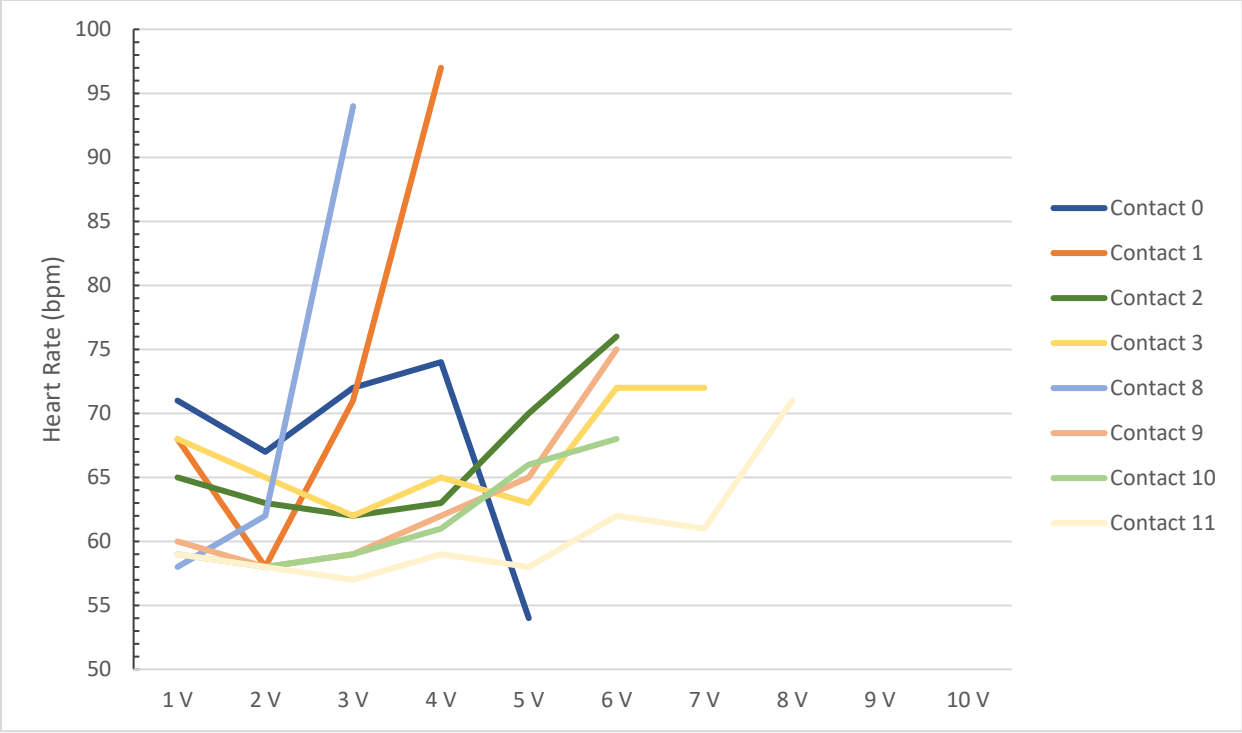
# Patient 11

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Burping	Nausea Slurred speech						
1				Cool		Thirsty	Warmth Burping			
2				Burping		Thinking about what grandson is doing	Burping Sweating			
3		Burping	Sweating		Cool					
8		Burping				Phosphenes				
9						Warmth				
10				Cool	Flushing Warmth		Flushing Sweating			
11	Burping									



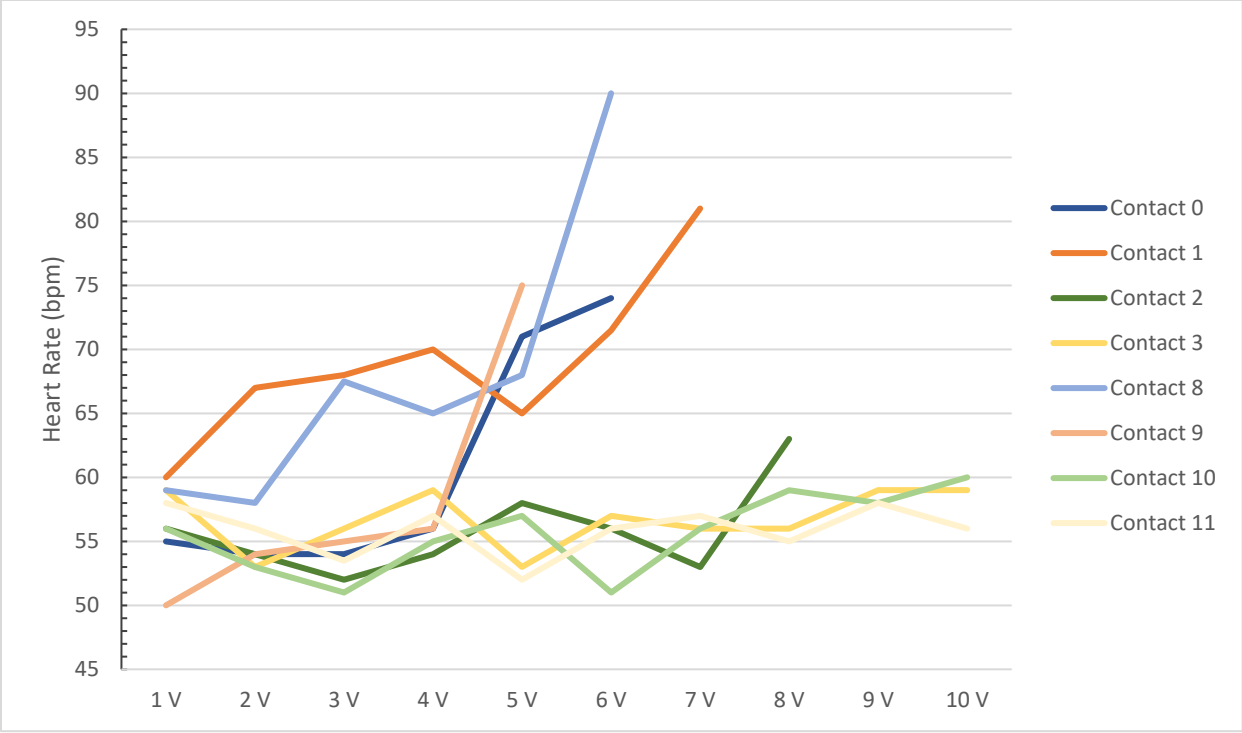
# Patient 12

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Tachypnea Burping Sweating of palms Confused					
1				Warmth in face, arms and chest Tachypnea Anxiety						
2			Flushing		Warmth Tachypnea		Confused Sweating of palms			
3							Warmth in neck, chest, and arms			
8			Tachypnea Anxiety Warmth Confused							
9						Warmth Uncomfortable				
10					Warmth	Warmth	Sweating Confused			
11						Confused Tired				



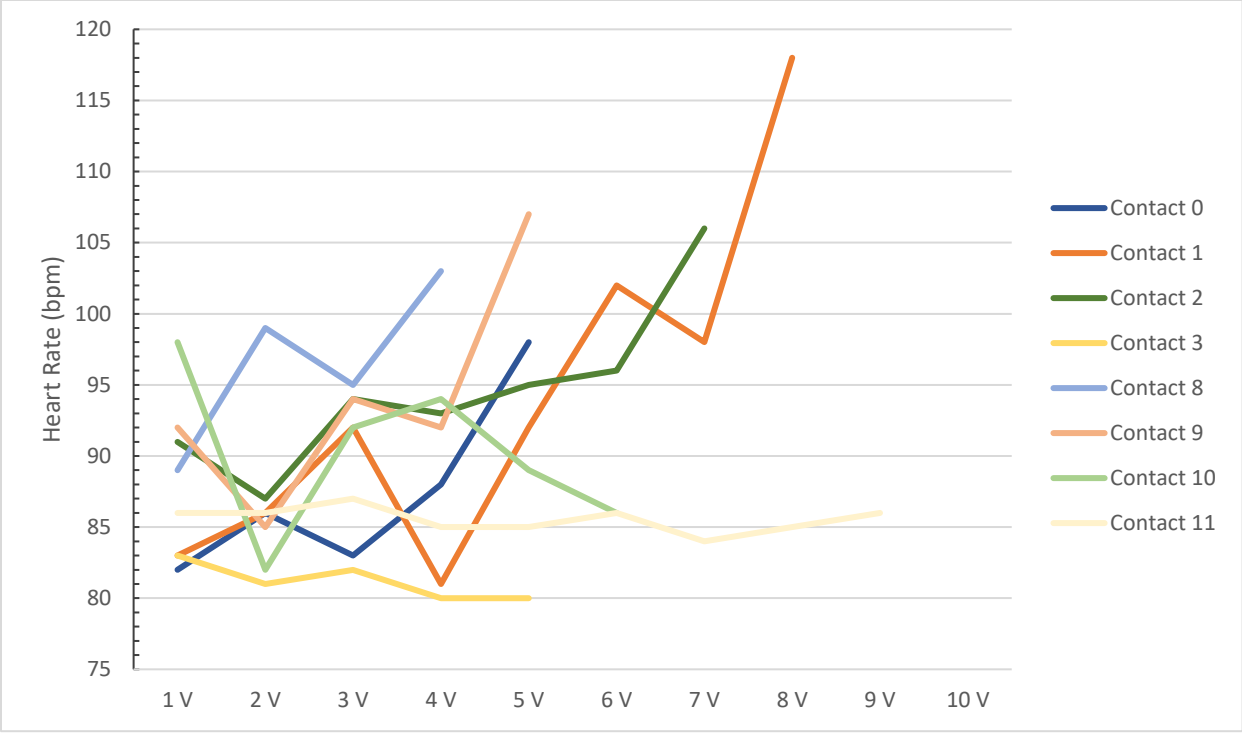
Patient 13

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Flushing	Flushing				
1						Thoughts of summer spent in Harrisburg, PA				
2					Memories of summers spent in PA as a child	Memories of summers spent in PA as a child – reported as vivid	Continued memories			
3										
8						Warmth				
9					Flushing Warmth					
10					Running thoughts	Memories of the coconut grove and house in Miami, FL				
11										



# Patient 14

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Flushing					
1		Flushing		Hunger			Cool in fingers Hunger	Flushing		
2							College memories such as walking through the campus			
3										
8					Flushing Warmth					
9					Hot flashes					
10			Recounts story about sister when they were younger							
11									Tired	

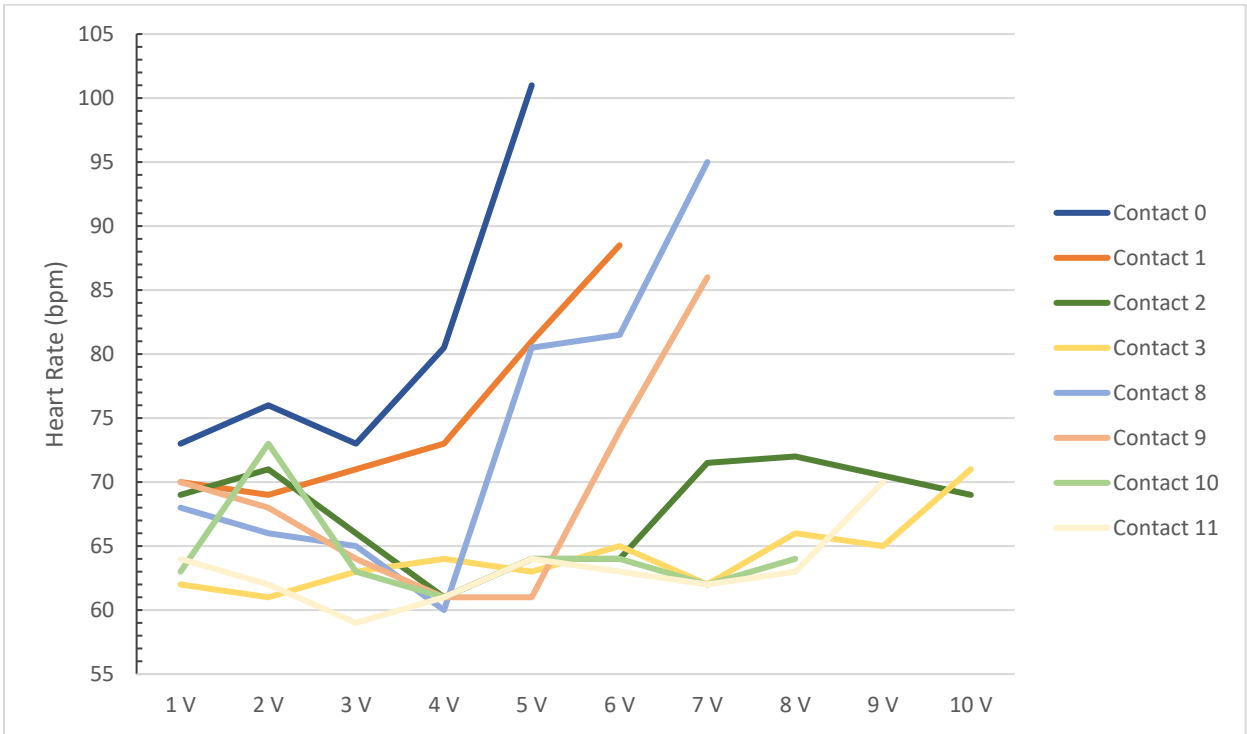


# Patient 15

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Tingling in arms and hands Warmth	Warmth					
1				Warmth	Sweating	Sweating Warmth				
2							Memory of helping a guy find something on his property	Memory more detailed now remembering the guy's son	Continued thought	More details, Halloween night
3										Satiety
8					Warmth	Warmth Tired	Tired Slurred speech			
9			Thought about someone from 23 years ago who owed him money and bowled on the same team	Thoughts about a lineman from 26 years ago		Warmth	Warmth			
10					Thoughts floating	Thoughts floating Halo effect	Thoughts of standing on the front porch of the first house he bought and a taste of specific food	More details, satiety from eating sardines and mustard sandwich (previously noted taste), now recalls it occurred 23 years ago		

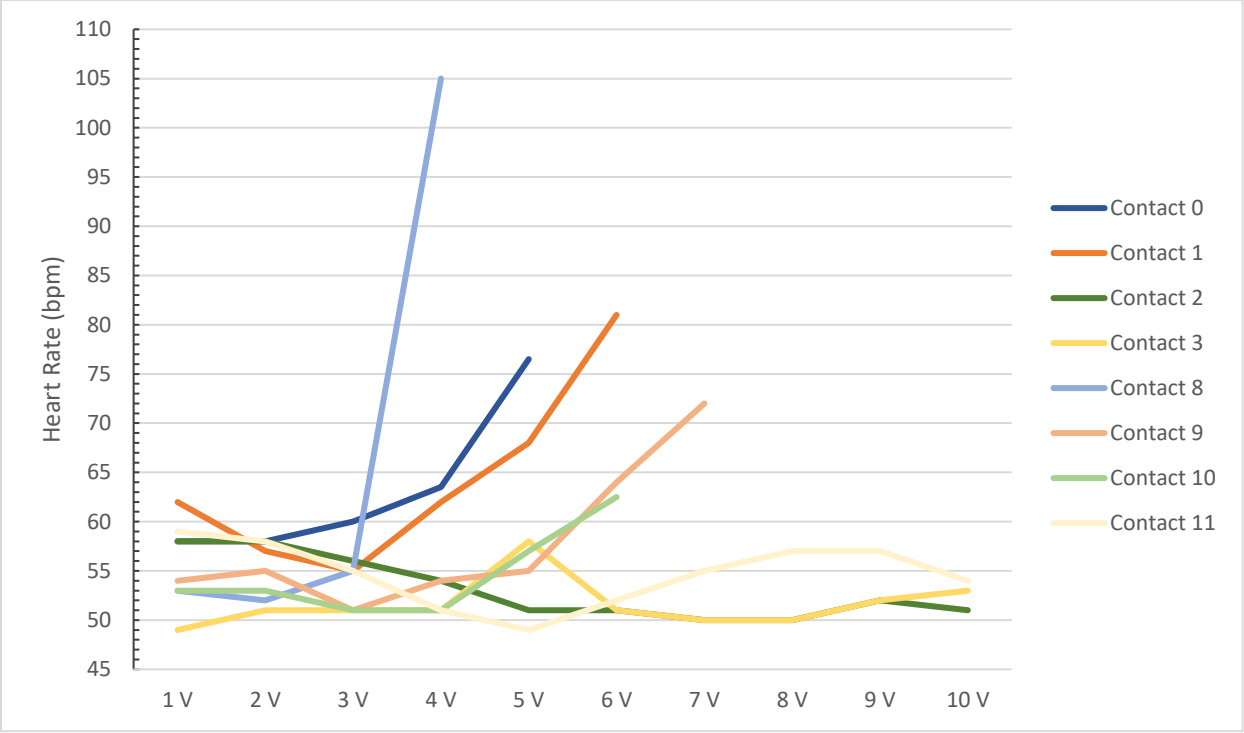


						(can't specify)			
11							Thoughts ready to break through	Thought of hitting a kid named Jamie Ray in the face at the age of 5 years, vivid details and remembering hopping through the neighborhood	



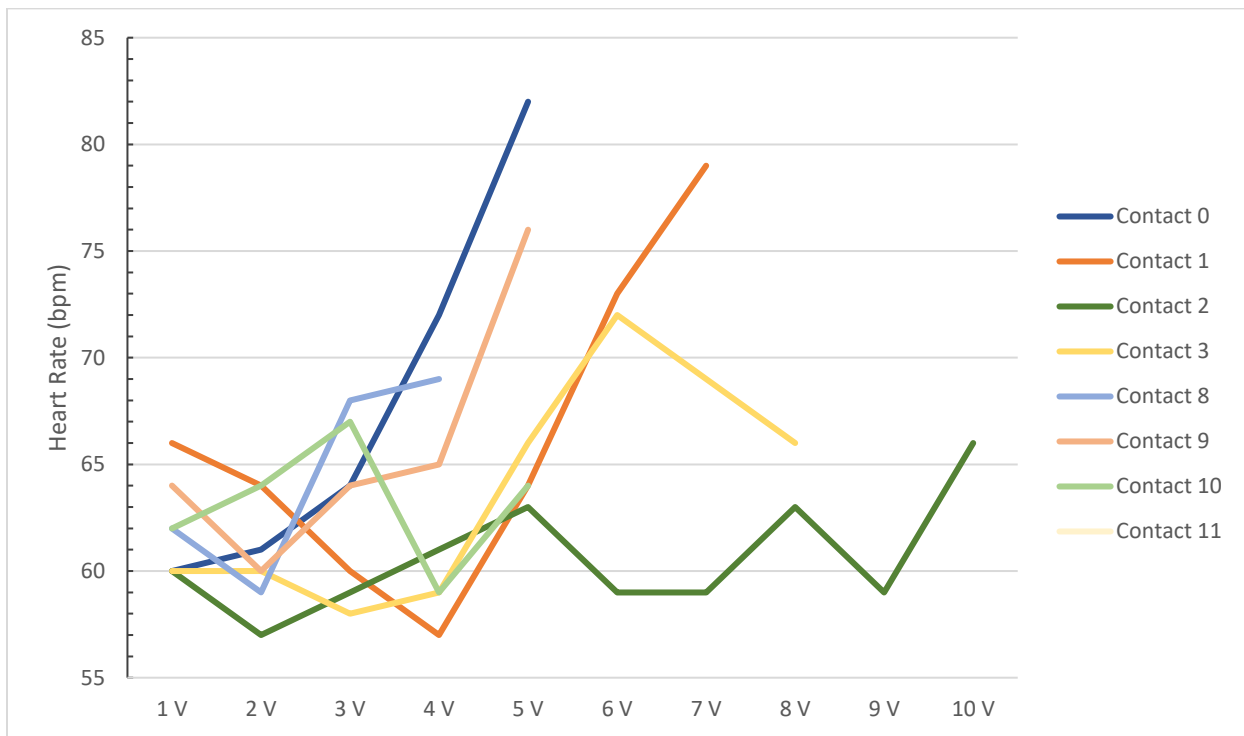
# Patient 16

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Warmth	Warmth					
1				Warmth of incision	Warmth Sweating	Warmth				
2				Warmth of incision		Tingling at IPG pocket		Tingling of the head and IPG pocket		Tingling of the IPG pocket
3										
8			Sadness	Flushing Warmth Shortness of breath						
9		Tingling of the right temple			Hot flash	Flushing	Warmth			
10					Flushing	Nausea Sweating				
11				Wheels turning in head		Tingling of left forehead				



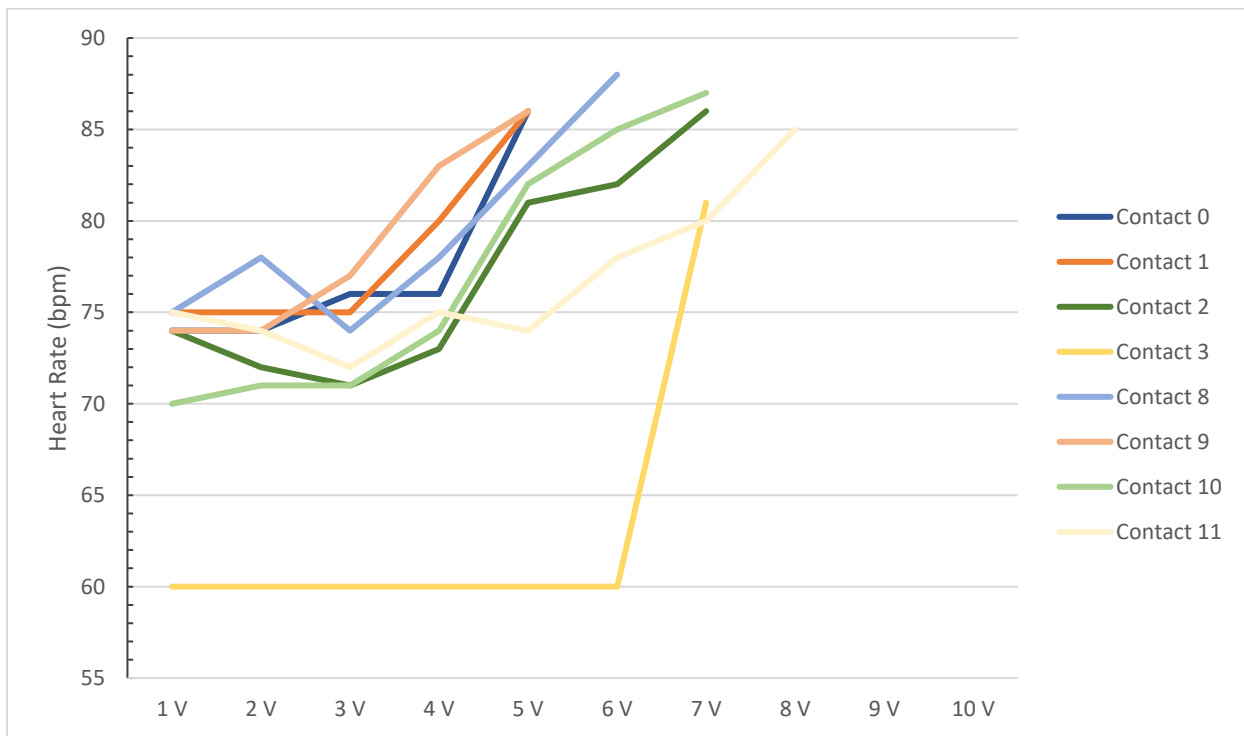
# Patient 17

	Voltage (V)									
Contact number	1	2	3	4	5	6	7	8	9	10
0				Warmth	Warmth Palpitations					
1					Cool	Warmth	Sweating			
2								Talks about poodle at home Flushing	Warmth	Warmth Flushing
3										
8				Warmth						
9					Warmth					
10										
11										



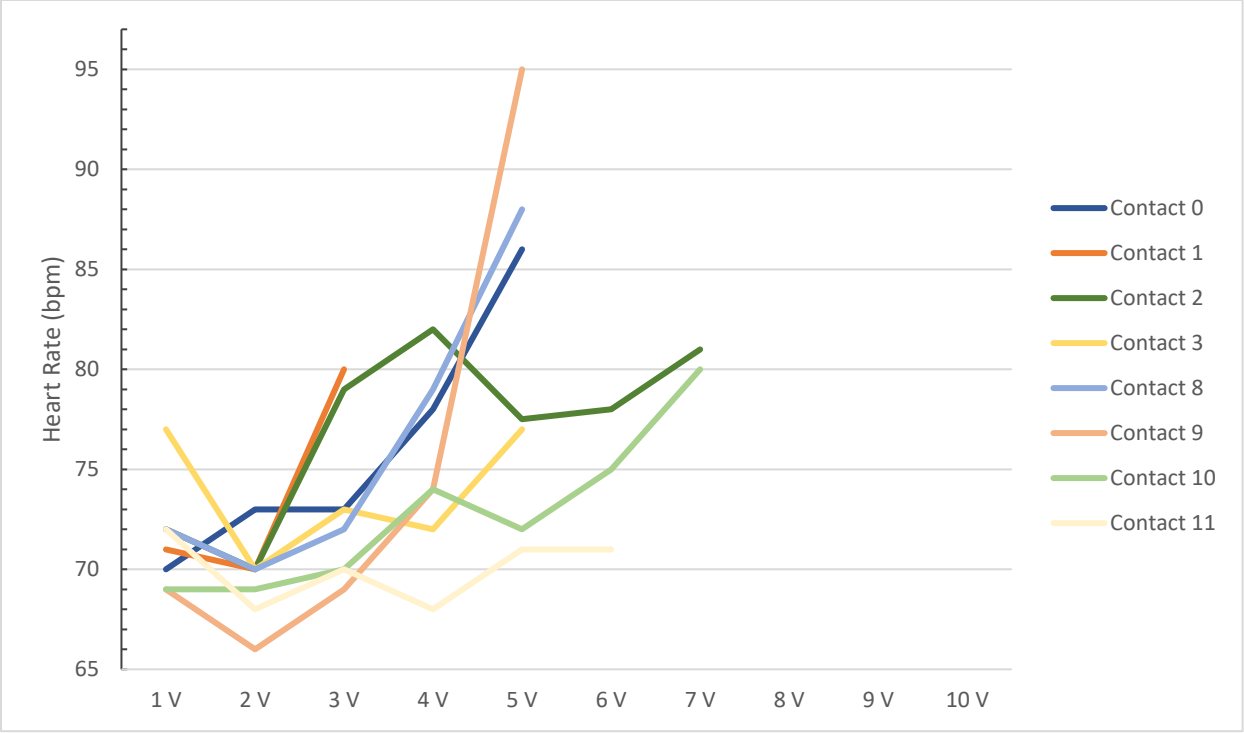
# Patient 18

	Voltage (V)									
Contact number	1	2	3	4	5	6	7	8	9	10
0					Warmth					
1				Warmth	Warmth					
2					Warmth	Warmth	Warmth			
3							Warmth			
8				Warmth	Warmth					
9				Warmth						
10					Warmth	Warmth				
11							Warmth			



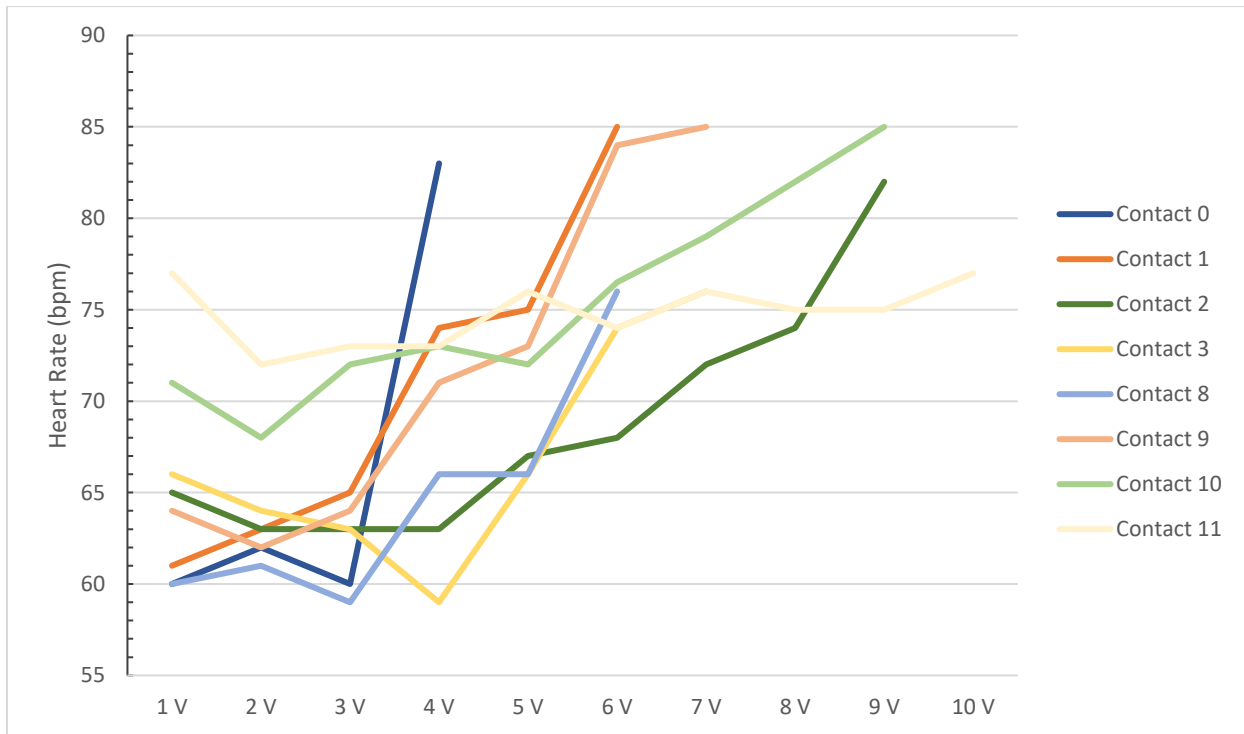
# Patient 19

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Warmth	Flushing Warmth					
1			Warmth Flushing							
2				Warmth	Warmth	Thoughts about wedding	Flushing Warmth			
3			Thoughts about wedding	Warmth	Warmth					
8			Clammy Tingling at incision	Warmth	Warmth					
9		Clammy		Cool Warmth	Warmth Tingling					
10			Memory of father	Memory of father during childhood	Tingling in groin Warmth	Warmth Cool	Flushing Warmth			
11			Warmth	Short term recollections (words recently tested)		Warmth				



# Patient 20

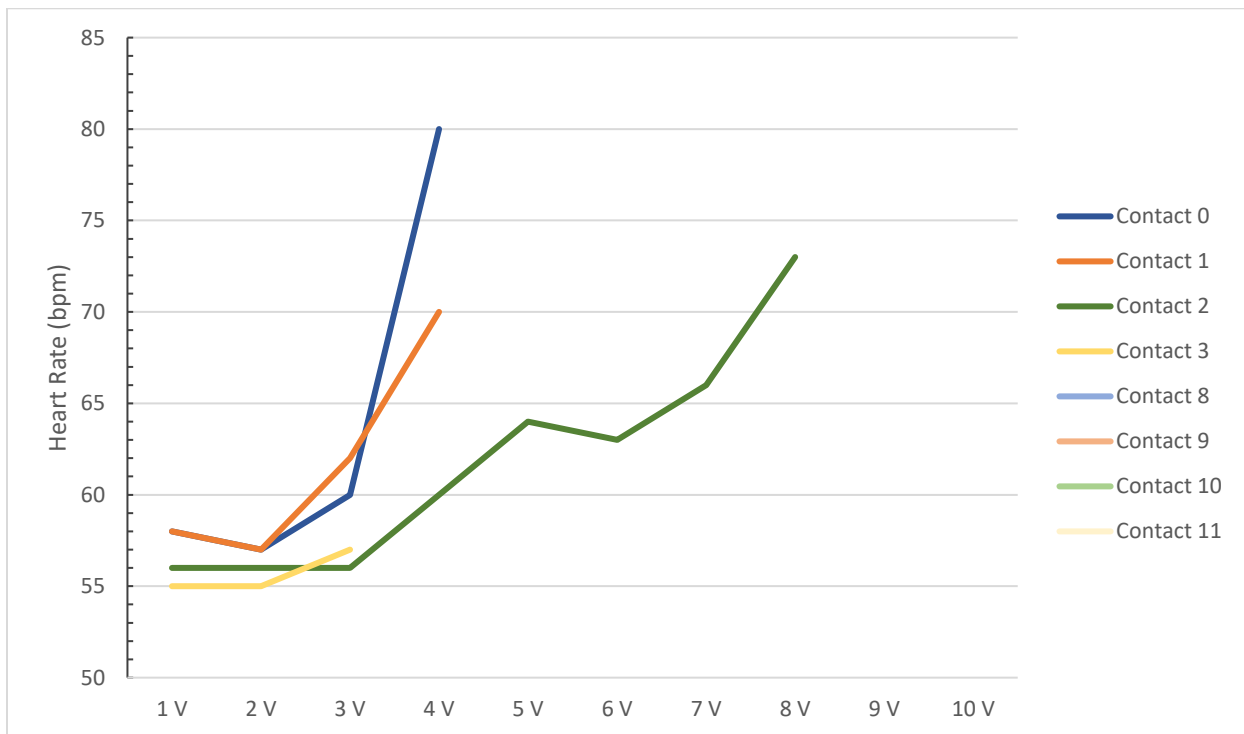
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Warmth						
1				Tingling in the leg		Warmth				
2						Flushing	Flushing	Flushing	Flushing Warmth	
3						Warmth	Flushing Sweating			
8					Warmth	Warmth				
9				Anxiety	Sun-downing	Hot flash Warmth	Warmth			
10							Warmth	Warmth	Warmth	
11										





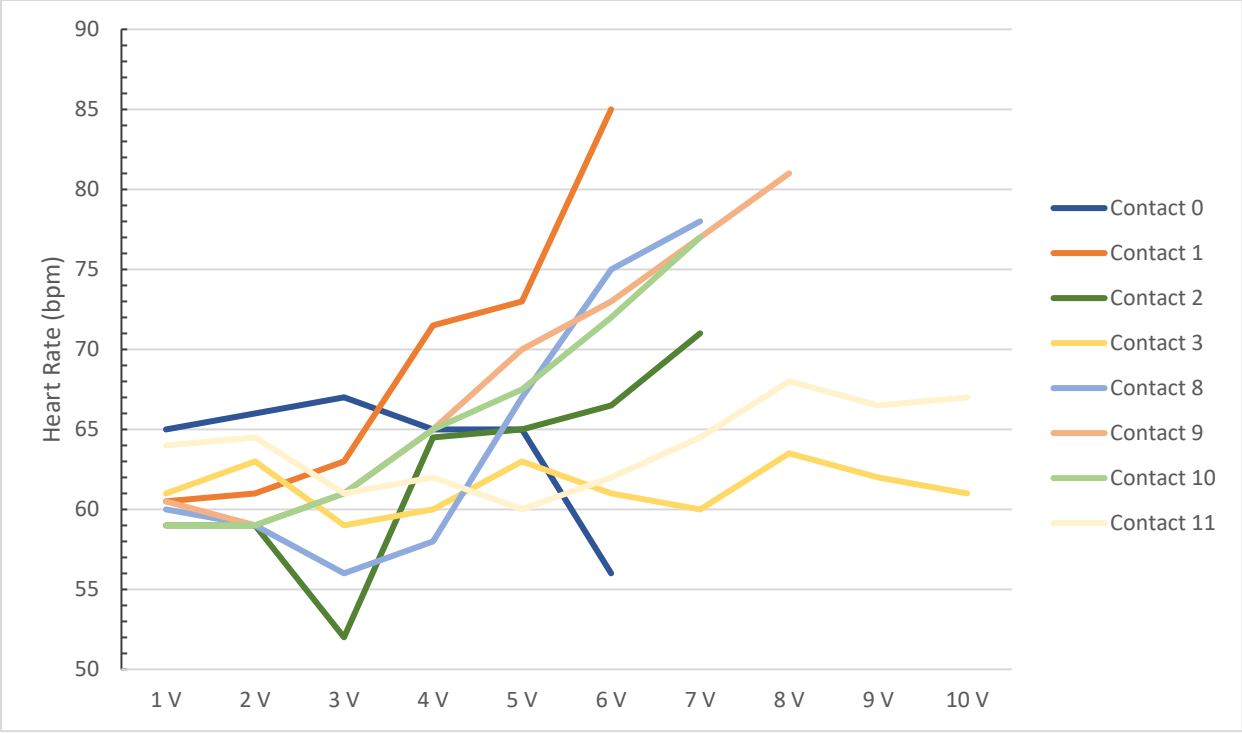
# Patient 21

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Flushing Sweating Tingling						
1		Tingling (carryover)	Warmth	Warmth						
2			Cool			Cool	Cool Spoke about time as MP in Germany	Tingling in chest		
3	Cool (carryover)	Trembling								
8										
9										
10										
11										



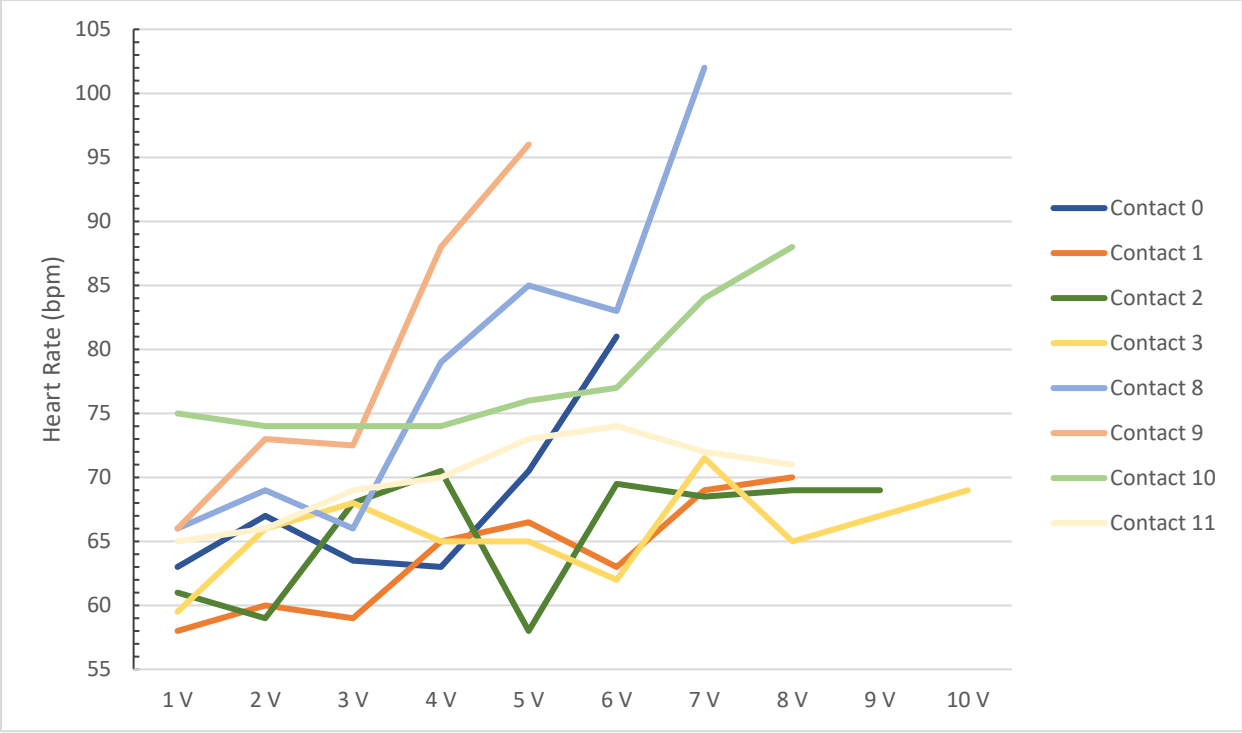
# Patient 22

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Warmth	Flushing Warmth	Warmth	Warmth Sweating Twitching of left hand				
1					Tingling in face Warmth	Warmth Tremor of the left arm				
2					Warmth Sweating	Warmth	Flushing Sweating			
3			Pinprick in right ring finger						Sweating	Sweating
8			Feeling hand dropping		Anxiety	Anxiety Sweating	Anxiety Warmth			
9				Twitching under left arm pit		Tingling Vibration under left arm pit	Sweating	Anxiety Warmth		
10	Vibration of right hand				Cool	Flushing Warmth	Flushing Warmth			
11				Twitching of the right arm				Left pectoral muscle twitch	Tingling of the left pectoral	Tightness of the left pectorals Tingling of the right hand



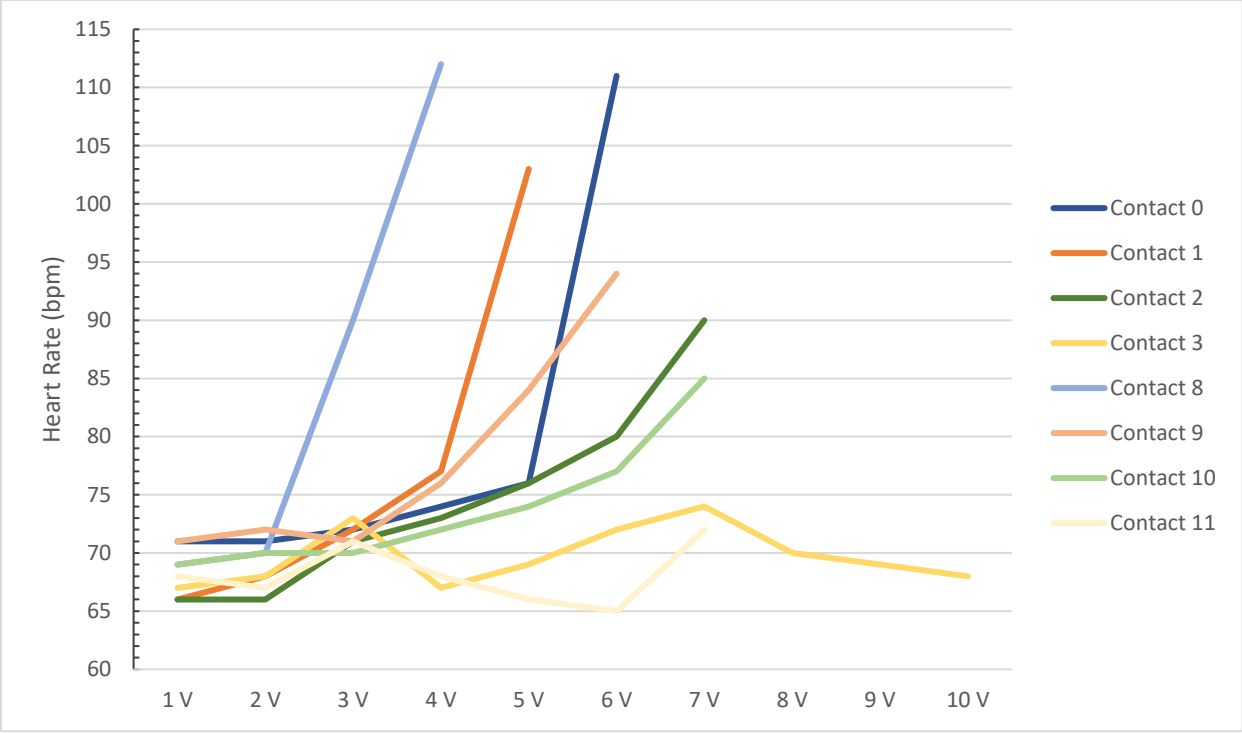
Patient 23

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0						Flushing Warmth				
1					Sweating	Sweating	Flushing Sweating	Warmth Sweating		
2		Rugby memories at Montserrat in 1969	Memories about the Peace Corps				Marriage and joyful memories	Peace Corps memory from 1968 when he and his wife first met		
3					Memories about golfing including the caddy		Talking about how lucky and fantastic his family is			
8							Flushing Warmth			
9				Flushing	Warmth					
10						Warmth Flushing	Sweating Warmth			
11				Looking forward to Notre Dame				Flushing		



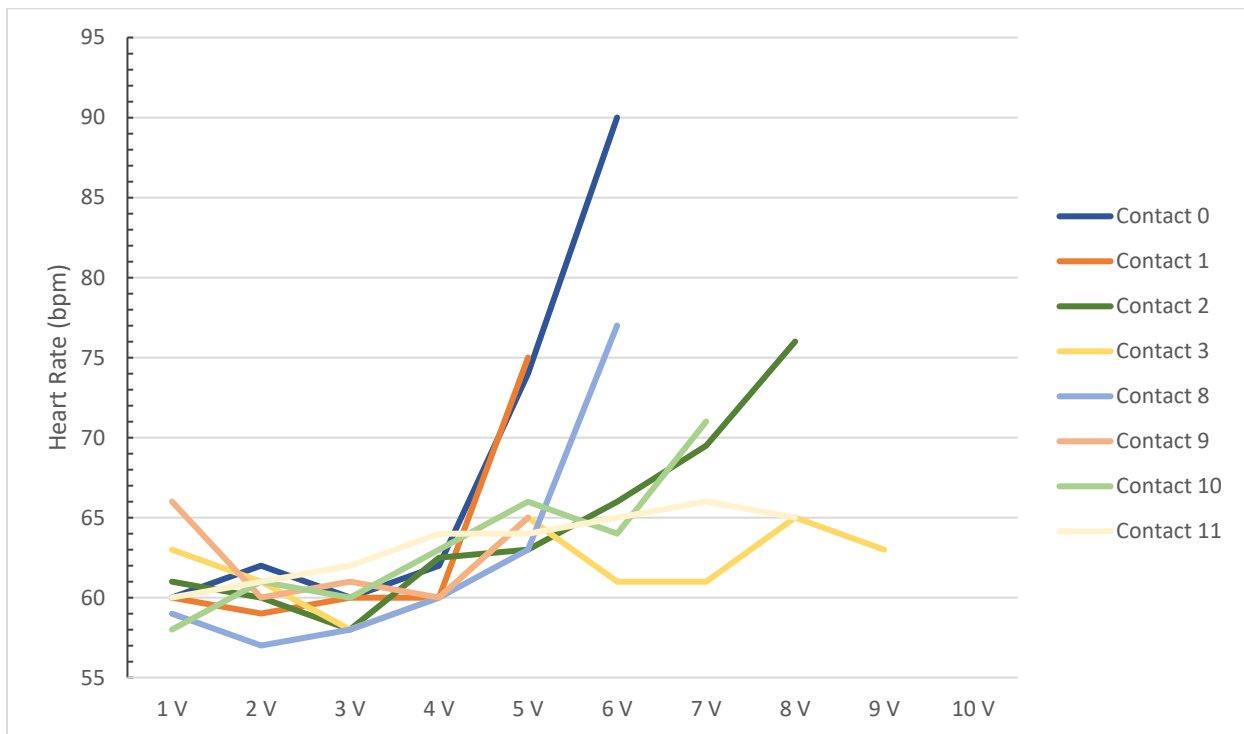
# Patient 24

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Feels his mouth	Sweating Warmth Tremor				
1	Tremor (carryover)		Tremor of left hand	Warmth	Anxiety Warmth Tingling in the feet					
2			Warmth Tingling		Trembling in knees	Trembling in knees	Telling story about grandmother (says name)			
3		Telling story about a TN visit to his aunt	Telling story about grandmother's brother (says name)			Resumes talking about trip to TN	Talking about river trips in Vietnam	Talking about service in Vietnam	Continues with Vietnam story	Memories continue (no change in detail or intensity)
8				Warmth						
9				Talking about Navy stories in Vietnam						
10	Continues talking about Vietnam			Continues talking about Vietnam		Warmth	Warmth Sweating			
11			Confusion	Cool						



# Patient 25

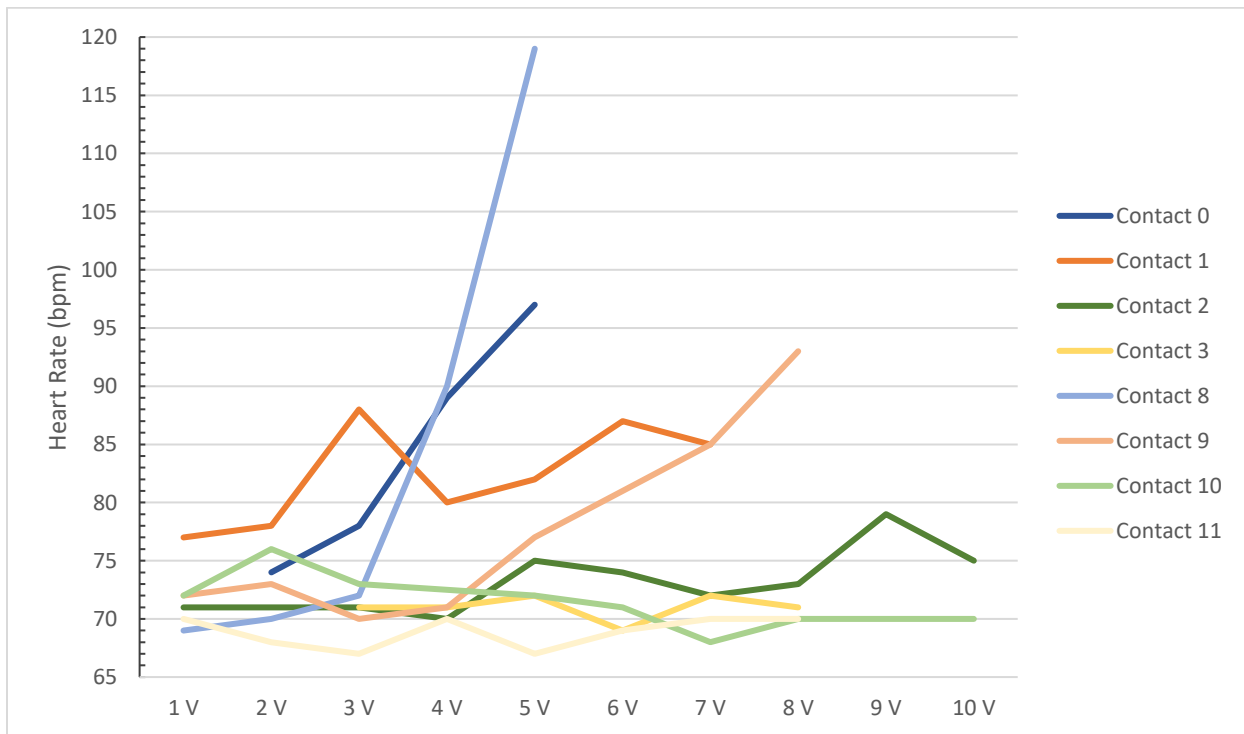
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Lightheaded	Cool Shaky	Cool Shaky				
1		Metallic taste	Shaky (carryover)		Cool Shaky (recurrence)	Sweating				
2		Shaky jaw				Sweating	Talking about baby delivery Shaky	Cool Warmth		
3			Metallic taste				Warmth Shaky	Tingling of legs	Cool	
8					Cool Shaky	Shaky				
9		Blurry vision Shaky		Nausea	Shaky Flushing					
10						Sweating				
11			Shaky	Thinking about Memphis		Feels the roof of the mouth	Energy Cool	Sweating Feels good		





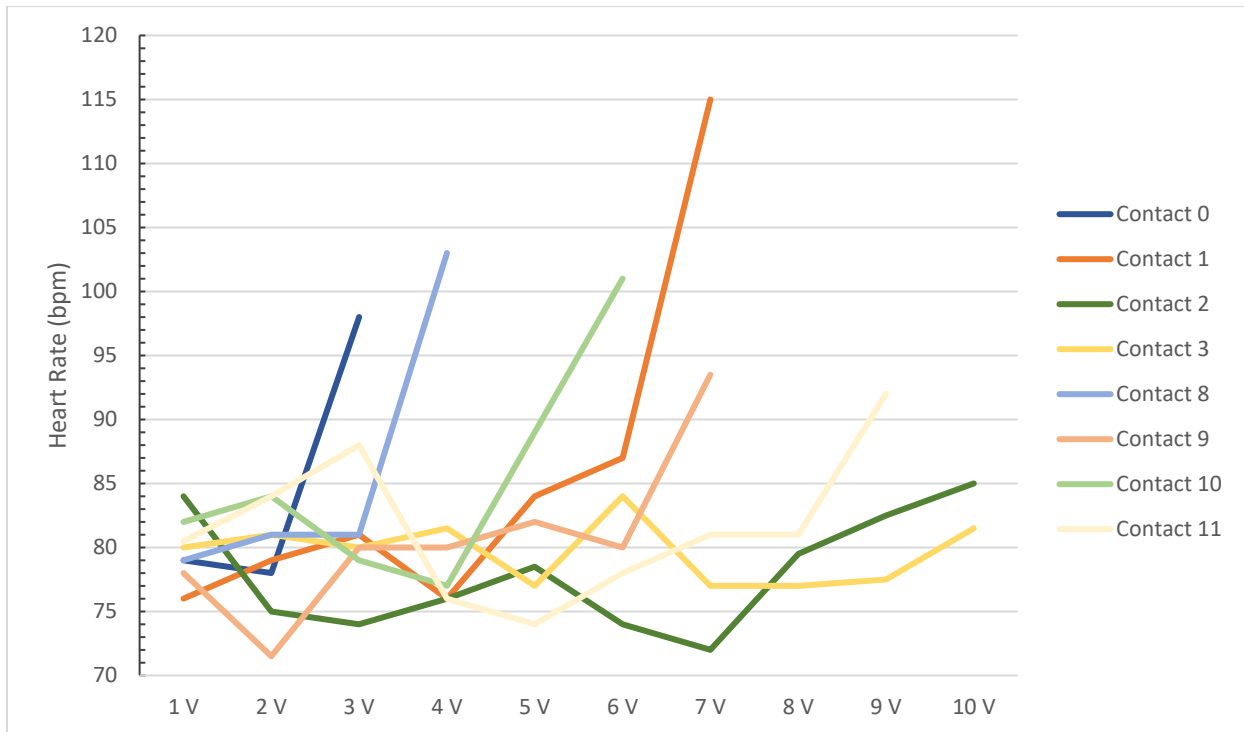
# Patient 26

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Pressure Sensory difference						
1					Pressure at arms and chest	Cool Unusual feeling	Nausea			
2										
3				Not unpleasant feeling	Feeling something different					
8				Warmth	Warmth					
9	Hard to explain feeling				Feeling different	Warmth Flushing	Flushing			
10			Pressure in head							
11								Tightness in jaw		



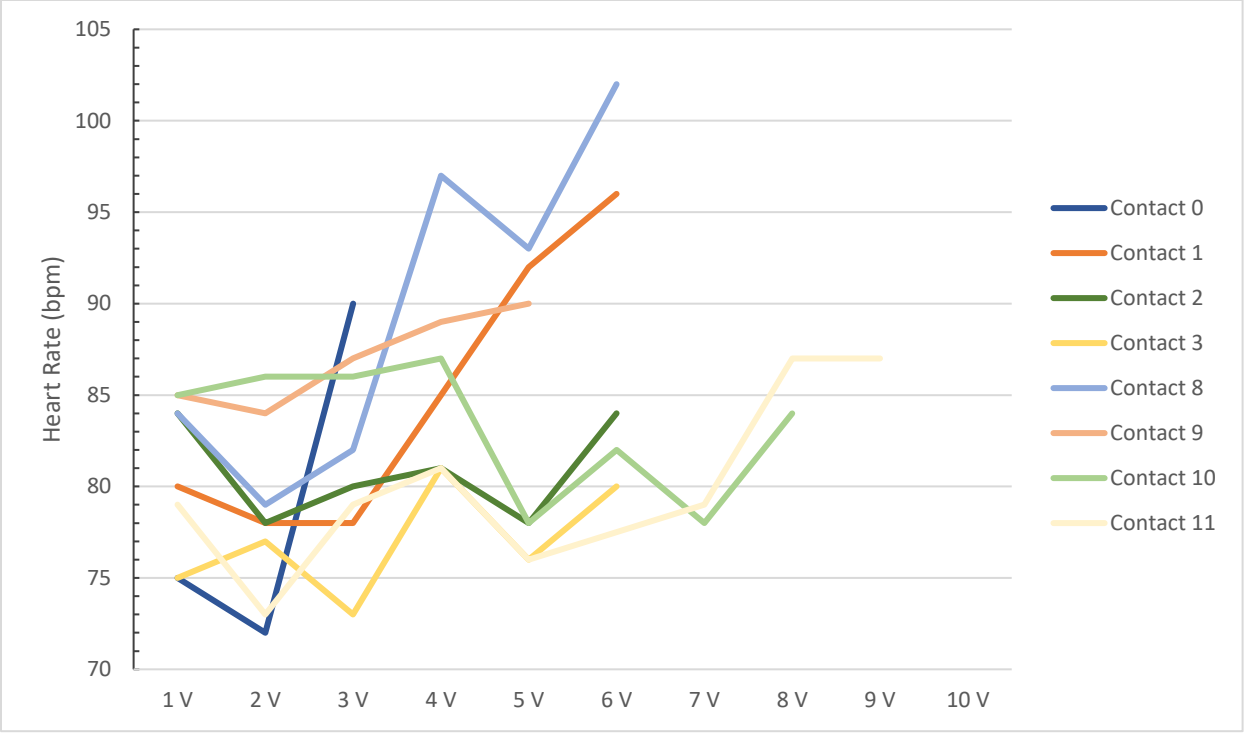
# Patient 27

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Anxiety Warmth							
1							Sweating Warmth Anxiety Lightheaded			
2										
3										
8				Nausea Anxiety						
9							Nausea			
10					Warmth Sweating	Warmth Coughing				
11									Nausea	



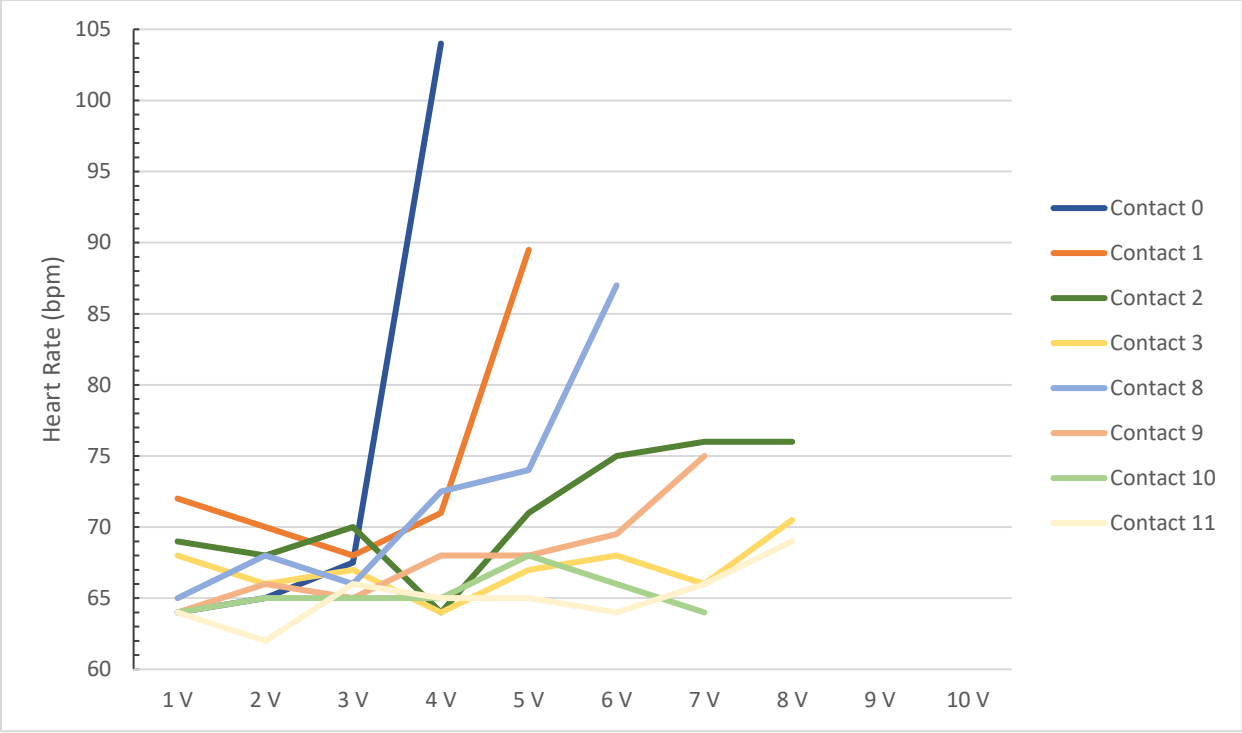
# Patient 28

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Warmth Anxiety							
1					Warmth					
2					Bartending memory when younger	Anxiety Warmth				
3						Anxiety				
8					Warmth	Anxiety Warmth				
9			Thoughts running through head	Passing memory Anxiety	Warmth Anxiety					
10			Passing emotions Thoughts	Déjà vu like thoughts (can't describe)	Déjà vu (can't describe but good)	Déjà vu	Cool			
11					College memory from 1978	More details, describes lighting, temperature, pictures, and windows	More vivid memory of college roommate and apartment	Anxiety	Anxiety Decreased memory	



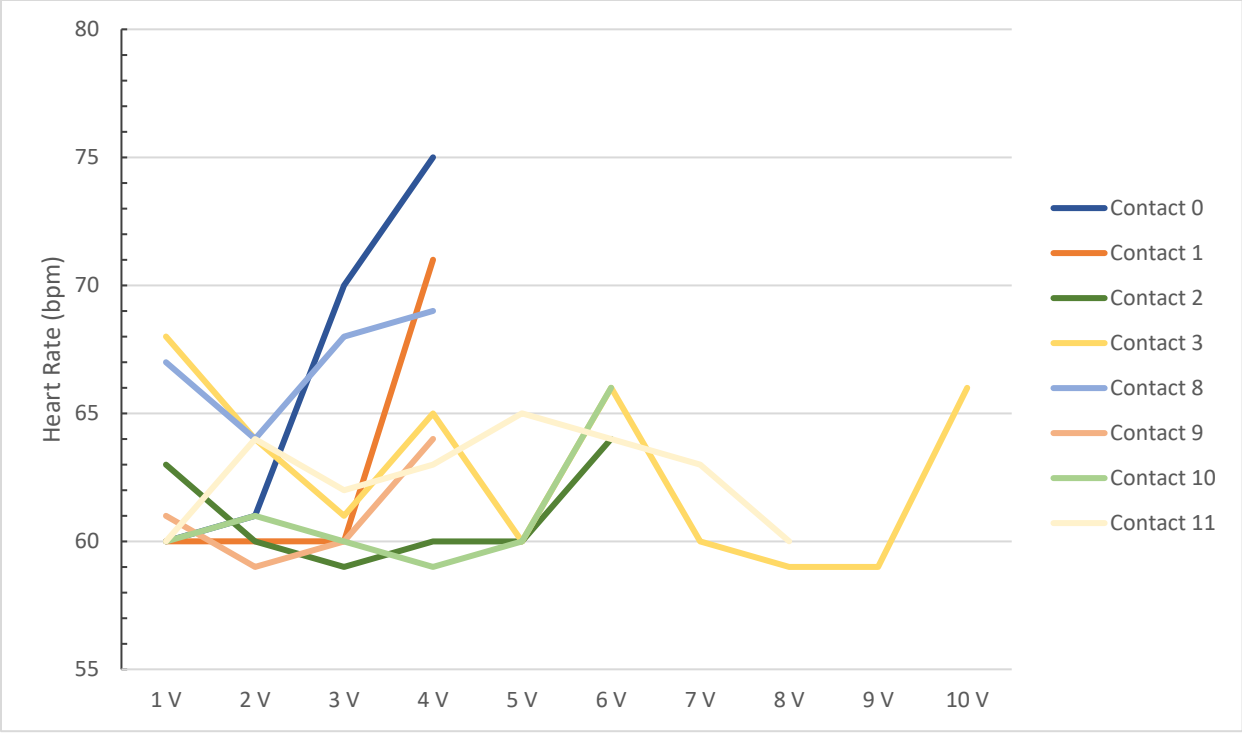
# Patient 29

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Warmth						
1					Warmth					
2						Anxiety	Warmth			
3						Anxiety		Tightness of arm Change in feeling of arm		
8		Warmth			Tingling of right arm	Sweating Warmth				
9							Warmth Remembering walking on campus before surgery			
10						Warmth in right arm	Flushing Sweating Remembering walking on campus before surgery plus remembering one of the buildings and bikes parked everywhere around the building			
11							Sweating (carryover)	Warmth right arm		



# Patient 30

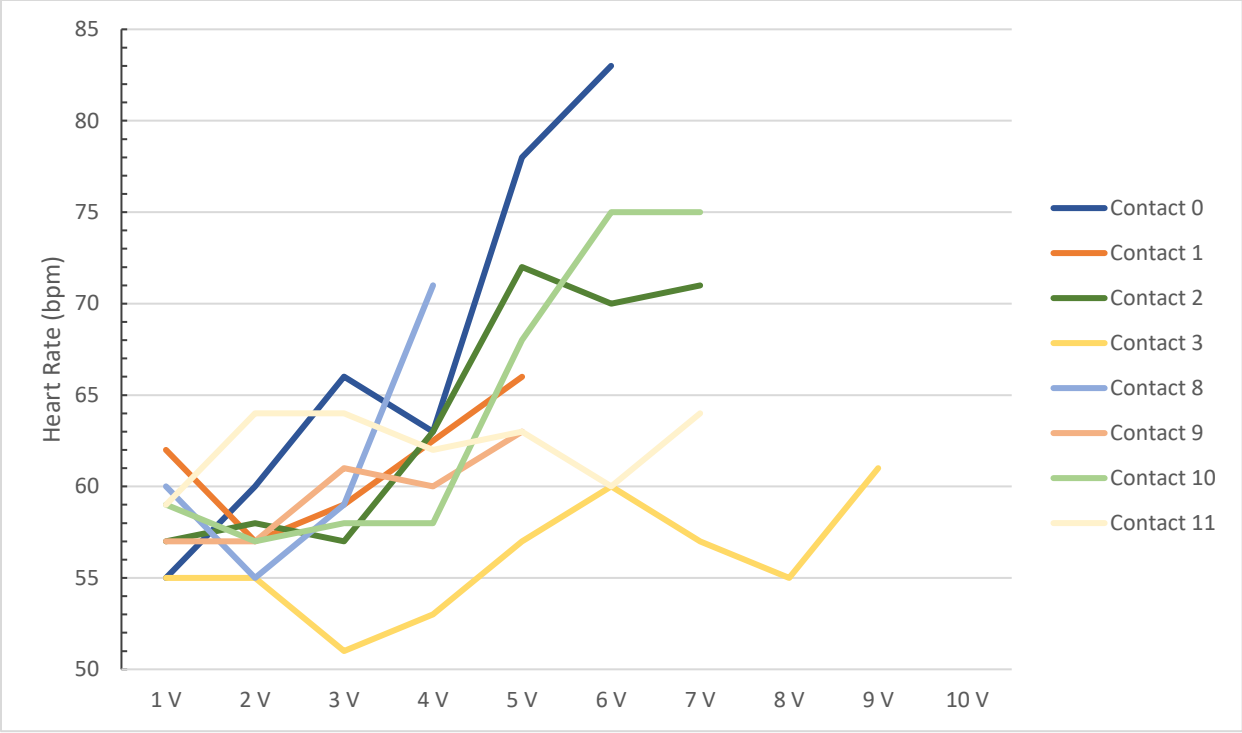
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Warmth Tingling of the left hand	Sweating Warmth						
1				Lightheaded Anxiety						
2			Tingling of the right arm		Tingling of both arms	Tingling of both arms				
3						Tingling of the IPG pocket	Tingling of the IPG pocket (stronger)	Tingling of the IPG pocket	Tingling of the IPG pocket	Tingling of the IPG pocket (weaker)
8				Lightheaded						
9				Lightheaded						
10										
11						Warmth	Warmth Tingling of the IPG pocket	Tingling of the IPG pocket		





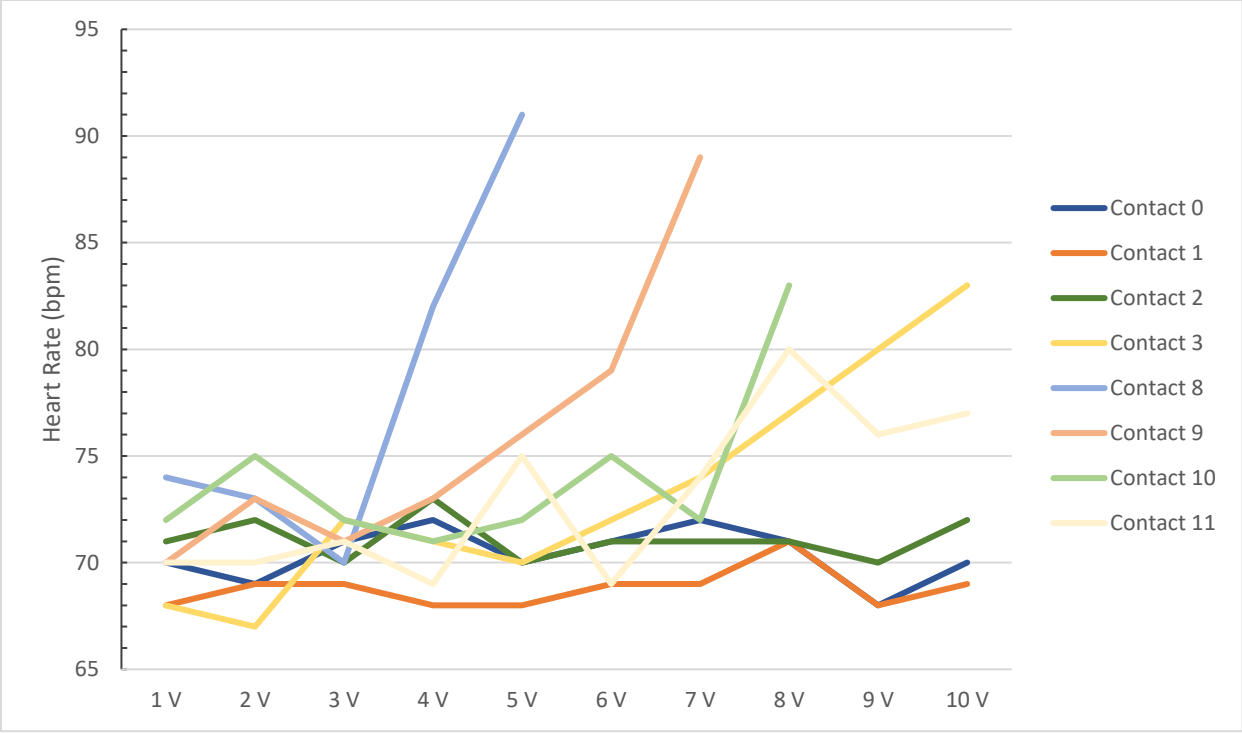
# Patient 31

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0		Sparkling lights	Blue and white light flashes	Nausea Flashes of light	Nausea Warmth Blue and white flashes of light	Warmth				
1	Warmth of right face Clammy	Warmth		Warmth Nausea Dry mouth	Nausea Warmth					
2		Flower smell Sweet fragrance	Warmth Clammy Flushing	Sweating Flushing Nausea	Warmth	Warmth				
3						Sweating Warmth		Pressure on right scapula	Nausea Clammy Dry mouth	
8	Nausea Tingling of the forehead		Barn smell	Nausea						
9					Nausea Word finding difficulty					
10					Cool Clammy Warmth	Warmth Sweating	Sweating Warmth Word finding difficulty			
11				Left chest pain			Right shoulder blade pain	Aches Tired		



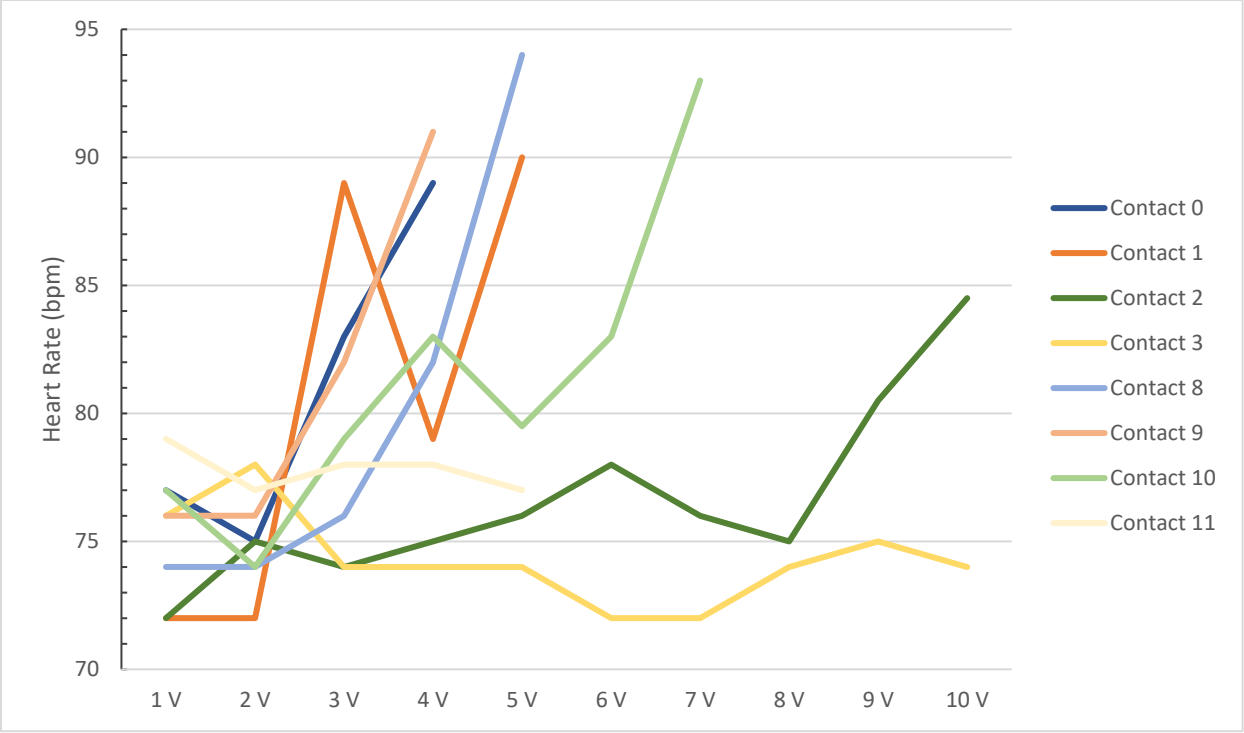
# Patient 32

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0										
1										
2				Warmth (not stimulation induced)						Warmth (not stimulation induced)
3										Warmth (not stimulation induced)
8			Dizziness Nausea	Hot flash Warmth						
9		Dizziness (carryover)	Nausea		Dizziness	Warmth Clammy	Sweating Hot flash Clammy			
10	Nausea (carryover)					Warmth	Warmth (decreased) Thinking about kids	Sweating Warmth		
11							Thinking about sister and going home to Kansas		Thinking about her daughter (reports name)	



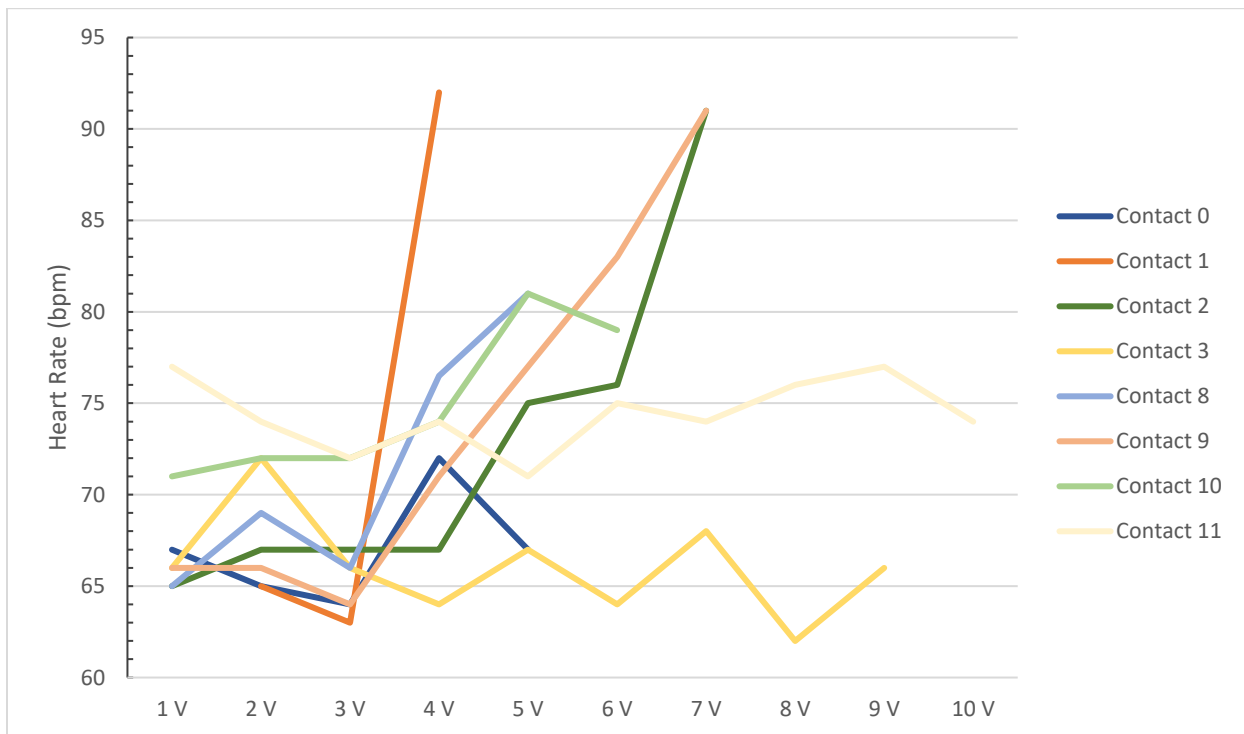
# Patient 33

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0			Flushing	Hot flash Sweating						
1					Lightheaded Flushing					
2							Talked about vacation to Aruba	Feeling intoxicated and remembers Margaritas	Tingling of the IPG pocket Lightheaded	Tingling of the IPG pocket Feeling intoxicated (decreased)
3							Tingling of the IPG pocket	Tingling of the IPG pocket	Tingling of the IPG pocket	Tingling of the IPG pocket
8				Flushing	Lightheaded Nausea					
9				Hot flash Sweating						
10			Dry mouth	Cool	Lightheaded	Lightheaded	Lightheaded			
11		Mentally sharp	Mentally sharp	Feels a "margarita-like" buzz with a feeling of people around the table	Could actually taste the margarita and smell the lime and felt slightly tipsy (from the Aruba trip)					



# Patient 34

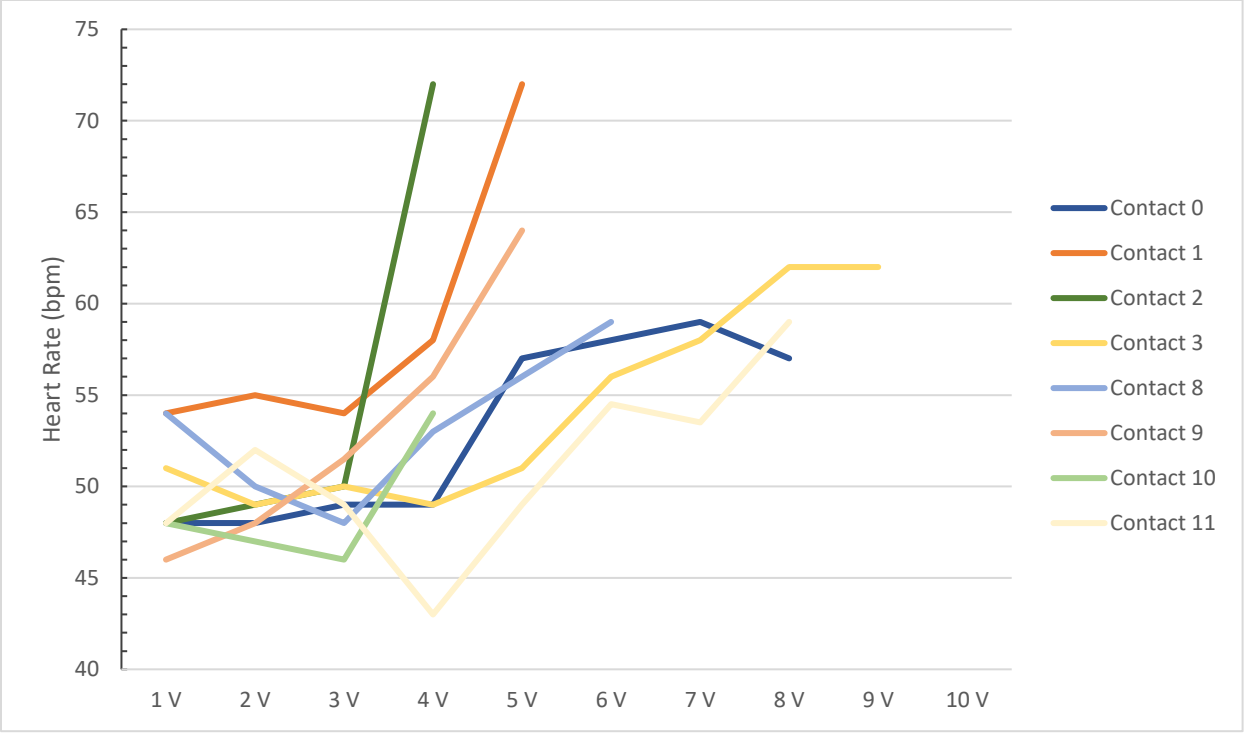
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Warmth Lightheaded					
1										
2			Tingling in hands		Tingling in hands	Warmth	Warmth			
3			Tingling in hands							
8				Flushed Dizziness Warmth	Dizziness					
9					Tingling of the left side of the face	Tingling of the right ear Lightheaded	Warmth Lightheaded			
10			Aware of the temples of his head		Warmth Flushing	Sweating Warmth				
11			Anxiety						Warmth	



# Patient 35

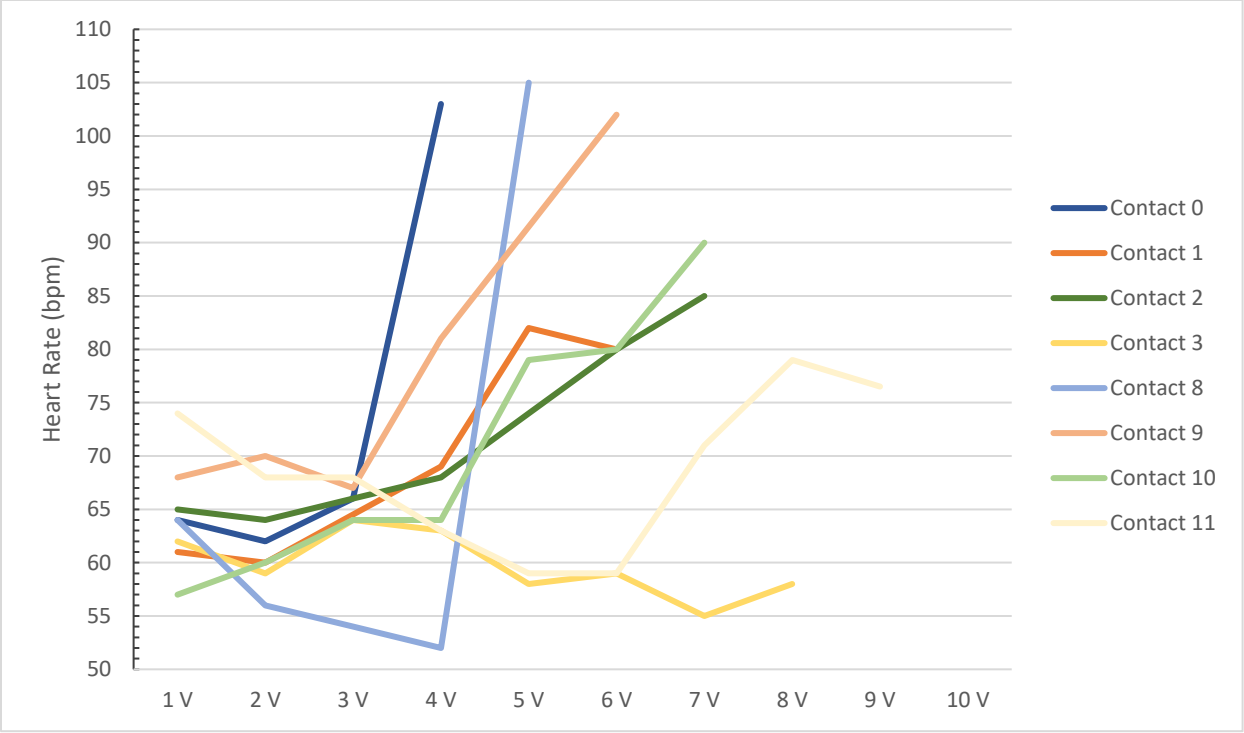
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Tingling in arms (not stimulation induced)	Tingling in arms (not stimulation induced)	Tingling in arms and legs (not stimulation induced)	Cool Tingling in feet (not stimulation induced)			
1					Flushing Warmth					
2				Lightheaded Nausea						
3								Numbness of the right thumb Cool Sweating	Flushing Sweating	
8					Anxiety	Lightheaded Clammy (carryover)				
9			Nausea	Nausea	Nausea Diarrhea					
10				Nausea Lightheaded						
11						Warmth Cool Flushing	Cool Warmth Flushing Clammy	Sweating Warmth Nausea		





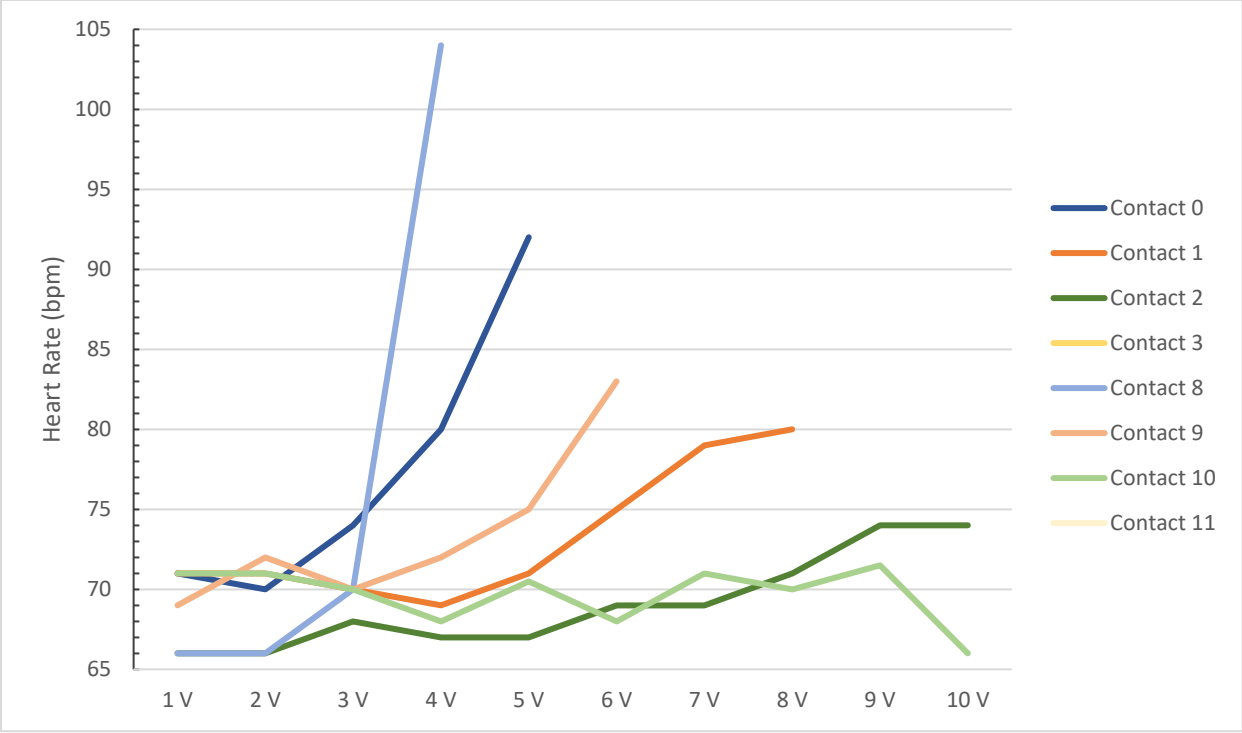
# Patient 36

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Warmth Anxiety						
1		Burping Bloating	Emotional about having a great life Thoughts about his past wife's passing and marrying his current wife of 8 years	Thoughts about his mother and father at the table having lunch	Warmth Flushing	Warmth				
2			Previous thoughts came back	Warmth Thoughts dissipating	Flushing	Memory of grandmother in her bathrobe	Warmth Sweating			
3					Warmth	Memories becoming clearer, now seeing 4 people walking up hill				
8										
9					Warmth Anxiety					
10	Anxiety Cool			Shaky Anxiety Shivers		Flushed Warmth	Sweating			
11	Cool Anxiety						Déjà vu Can't remember well Confused	Trying to remember something		



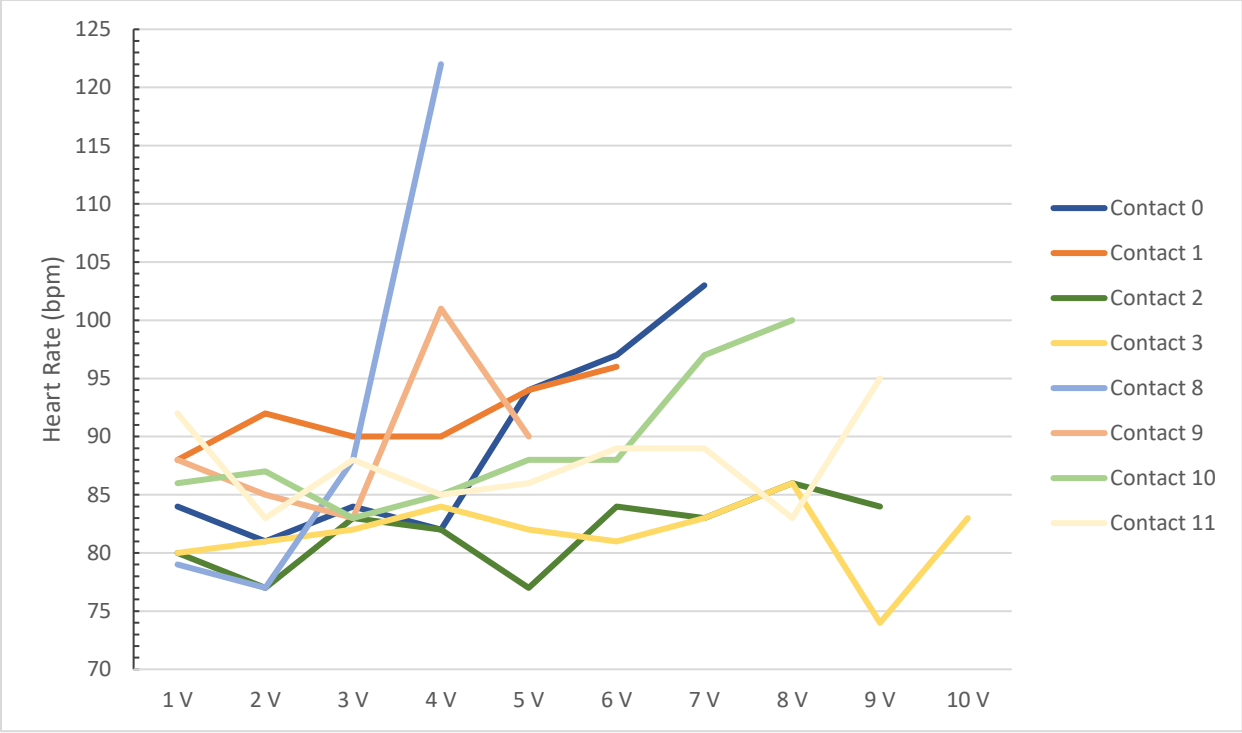
# Patient 37

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Anxiety Warmth	Warmth Belching					
1					Warmth	Warmth Flushing	Warmth Flushing Burping	Warmth Flushing		
2			Belching			Thinking about his wife and sister in the lobby and his sons in Atlanta, he was also thinking of the temperature in Atlanta	Same thoughts as at 6V	Tingling of the IPG pocket	Tingling of the IPG pocket Alert	Burping Warmth
3							Tingling of the IPG pocket			
8				Warmth Panic						
9					Flushing	Warmth Flushing				
10			Thinking about his wife and sister outside Thinking about his twin sister in IL	Thinking about his older sister Thinking about his mother and father	Thinking about his cousin	Calm	Warmth		Flushing	
11										Belching Tingling of the IPG pocket



Patient 38

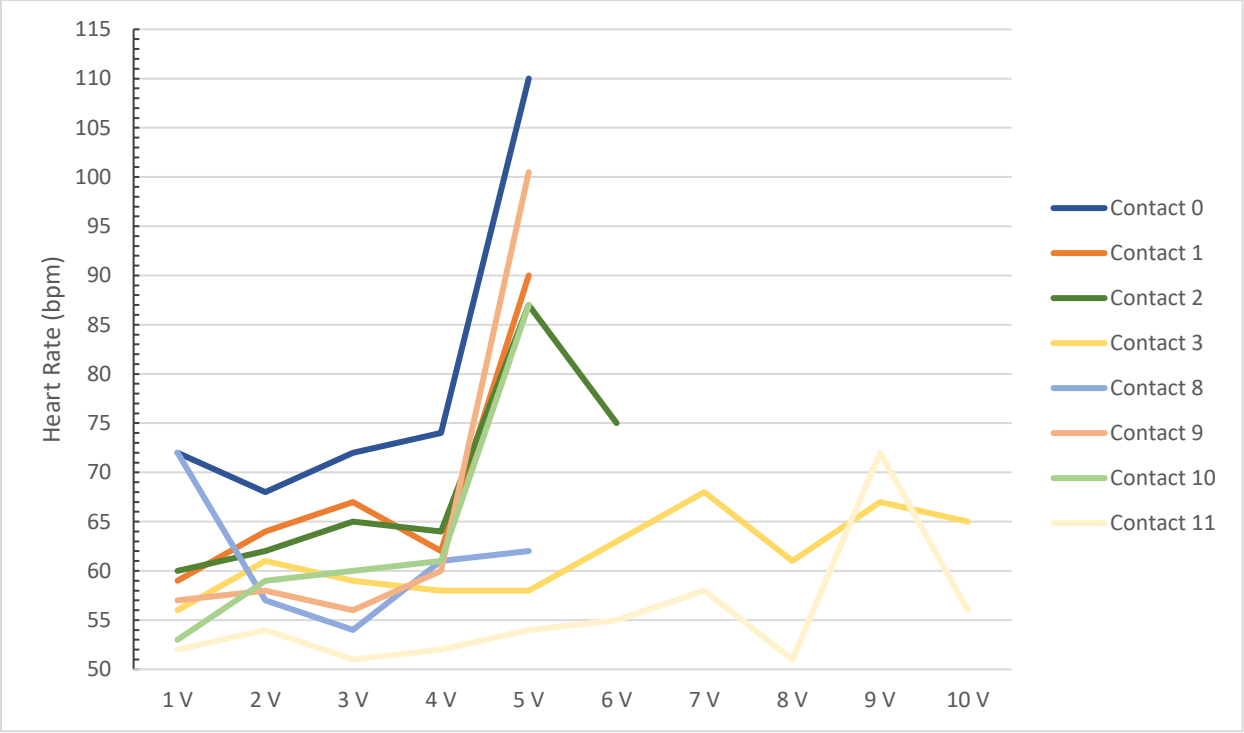
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Warmth		Tingling at the IPG pocket Warmth			
1		Warmth (carryover)		Flushing	Warmth Flushing	Flushing Warmth Burping				
2							Tingling at the IPG pocket	Warmth Tingling at the IPG pocket	Pulsation in finger	
3				Persistent tingling in the IPG pocket						
8			Warmth	Anxiety						
9				Warmth	Warmth					
10						Warmth	Warmth	Warmth		
11									Warmth Flushing	



# Patient 39

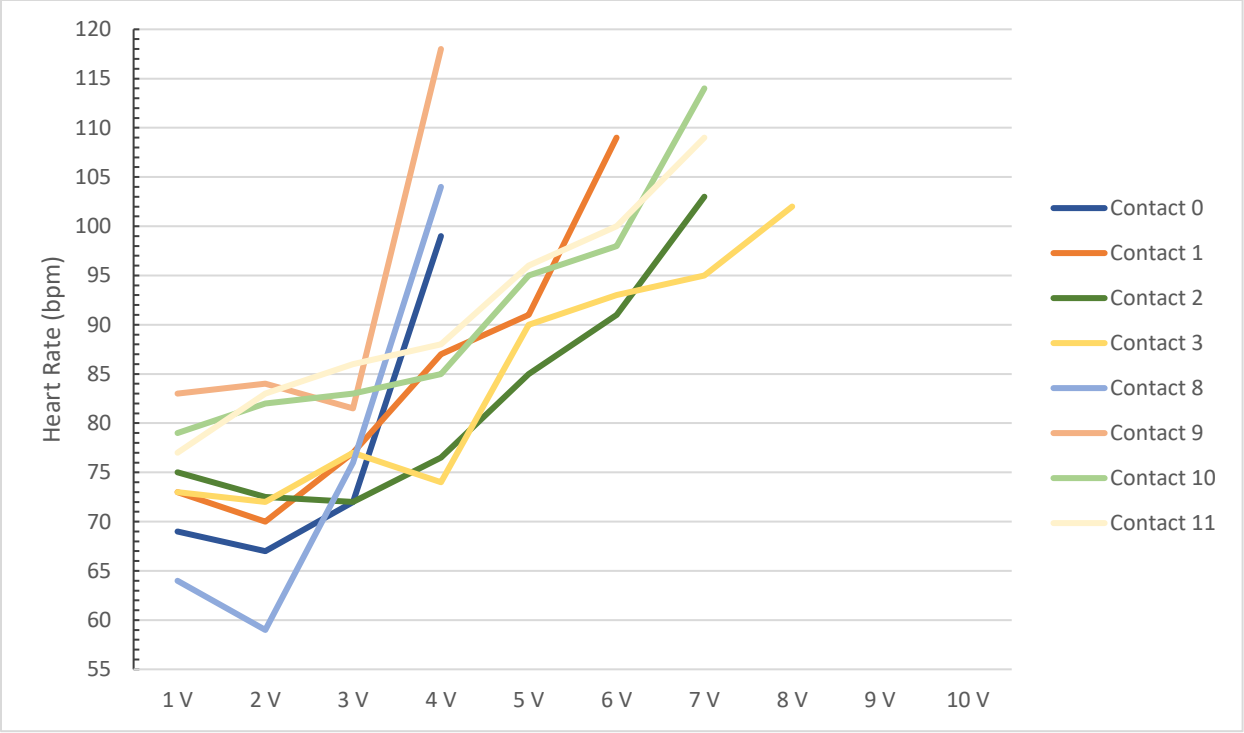
Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Warmth Sweating Dysphagia					
1					Warmth Sweating					
2		Feeling of pulled hair on forehead	Tingling of the left forehead	Relaxed	Warmth Flushed Relaxed	Warmth Sweating				
3										
8				Anxiety	Panic Burping					
9				Warmth	Flushing Warmth					
10				Flushing	Flushing Warmth					
11								Memories on a lake, it was raining, her battle dress uniform was wet, she was on a white boat with a yellow stripe, and the waves were very vivid	Lake memory continues to be vivid	Memory continues, can't remember the name of the lake





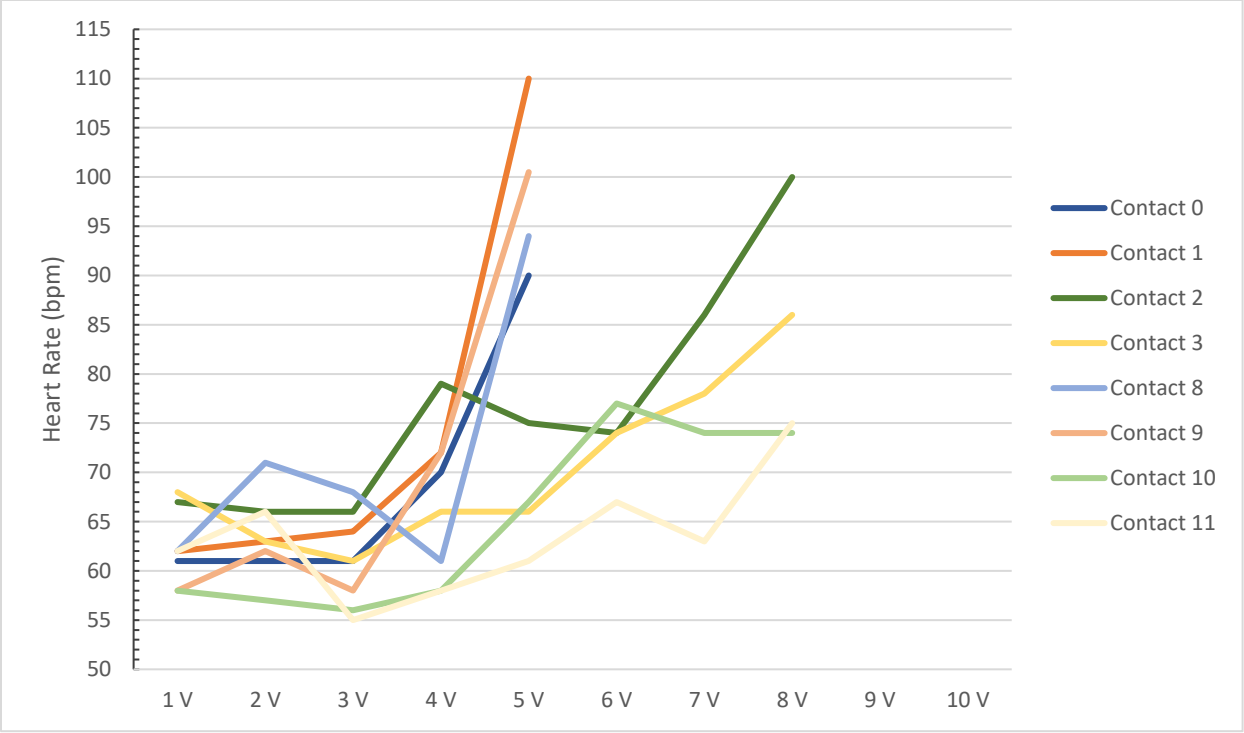
# Patient 40

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Cool						
1				Cool	Cool Sweating	Tingling in both legs				
2						Tingling in both legs	Warmth Sweating			
3			Tension band around his forehead		Sweating	Tingling in both legs	Warmth Sweating	Warmth		
8			Anxiety	Warmth Sweating						
9			Anxiety Shivers	Anxiety						
10	Shivers (carryover)				Warmth	Warmth of the right arm	Warmth			
11	Cool (carryover)				Mind running fast	Mind running fast	Warmth Sweating			



# Patient 41

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0				Sweating Flushing	Warmth Sweating					
1				Warmth	Warmth					
2			Story about mother in nursing home			Warmth	Warmth	Warmth Nausea		
3			Telling stories about riding the wall of death for the second time	Unformed thoughts			Telling stories about childhood, specifically 8 <sup>th</sup> grade	Warmth		
8		Cool		Cool	Warmth Felt the need for bowel movements					
9				Mind running fast	Warmth Felt the need for bladder and bowel movements					
10			Anxiety Mind racing	Cool Anxiety Mind racing	Anxiety	Telling story about buying his sister's house in Phoenix, AZ	Sweating Difficulty breathing Difficulty thinking	Sweating Difficulty thinking		
11		Story about going to school in IA	Continues story from 2V		Cool	Anxiety Warmth	Thoughts about school in IA and memories of the room, school, and the house	Warmth Flushing		



# Patient 42

Contact number	Voltage (V)									
	1	2	3	4	5	6	7	8	9	10
0					Palpitations					
1				Tachypnea	Palpitations Tachypnea					
2						Mind is blank			Tachypnea Sweating	
3	Tingling of the right arm			Sweating			Wondering	Mind is blank		
8				Cool			Tachypnea			
9			Anxiety	Palpitations Anxiety						
10			Mind is blank	Tachypnea	Tachypnea Anxiety Shaky		Warmth			
11			Anxiety		Sleepy			Sleepy	Mind is blank	

