SUPPLEMENTAL MATERIAL

Appendix 1. Congenital heart defect-related Centers for Disease Control and Prevention (CDC)-modified version of the British Pediatric Association (BPA) codes included in the Congenital Heart Survey To Recognize Outcomes, Needs, and well-beinG (CH STRONG)

Severe Codes	
Severe codes	
745.000	Common Truncus
745.010	Aortic septal defect (ASD) / Aortopulmonary window
745.100—	
745.190	Transposition (all types)
	745.100 Transposition of great vessels, complete (no VSD)
	Transposition of great vessels, incomplete (w/ VSD), Taussig
	745.110 Bing
	745.120 Corrected transposition of great vessels, L transposition,
	vent inversion
	745.190 Unspecified transposition of great vessels
745.200	Tetralogy of Fallot
745.210	Fallot's pentalogy (tetralogy plus ASD)
745.300	Single ventricle, common ventricle, cor triloculare biatriatum
745.620	Common atrioventricular canal with ventricular septal defect (VSD)
745.630	Common atrioventricular canal
745.680	Other specified cushion defect

745.690	Endocardial cushion defect, NOS
746.000	Pulmonary valve atresia, hypoplasia
746.100	Tricuspid atresia and stenosis
746.505	Absence, atresia, or hypoplasia of mitral valve
746.700	Hypoplastic Left Heart Syndrome (HLHS)
747.100—	
747.190	Coarctation of the aorta (all types)
	747.100 Pre-ductal
	747.110 Post-ductal
	747.120 Ductal
747.200	Aortic atresia (including pseudotruncus arteriosus)
747.210	Aortic hypoplasia
747.215—	
747.217,	Interrupted aortic arch
or 747.285	
747.420	Total Anomalous Pulmonary Venus Return (TAPVR)

Shunt + Valve C	odes
745.520	Lutembacher syndrome
746.840	Trilogy of Fallot
Other case:	s will be in this category if have codes in both Shunt and Valve categories.

Shunt Codes			
745.400—745.490	Ventricular Septal Defect (VSD), (all types)		
	745.400	Roger's disease	
	745.410	Eisenmenger's syndrome	
	745.420	Gerbode defect	
	745.480	Other specified ventricular septal defect	
	745.490	Ventricular septal defect, NOS	
745.510	Secundum	aortic septal defect	
745.580	Other speci	fied aortic septal defect	
745.590	Aortic septa	al defect, NOS	
745.600	Ostium prir	num defects	
745.610	Single com	mon atrium, cor triloculare biventriculare	
745.800	Other bulb	us cordis anomalies and anomalies of cardiac septal closure	
745.900	Unspecified	I defect of septal closure	
747.430	Partial anor	malous pulmonary venous return (PAPVR)	

Valve Codes	
746.010	Pulmonary valve stenosis
746.830	Pulmonary infundibular stenosis
746.080	Other specified anomalies of the pulmonary valve
746.090	Unspecified anomaly of pulmonary valve

1	
746.200	Ebstein anomaly
746.300	Aortic valve stenosis (includes valvar and subvalvar)
747.220	Supra-aortic stenosis (supra-valvar)
746.480	Other specified anomalies of aortic valve (including aortic valve atresia)
746.790	Unspecified anomalies of aortic valve
746.500	Congenital mitral stenosis
746.900	Unspecified anomalies of heart valves
746.995	Pulmonic or pulmonary atresia, stenosis, or hypoplasia, NOS
747.300	Pulmonary artery atresia, absence, or agenesis
747.310	Pulmonary artery atresia with septal defect

Other Codes	
745.700	Cor biloculare
746.820	Cor triatriatum
746.881	Hypoplastic left ventricle
746.882	Hypoplastic right heart/ ventricle (Uhl's disease)
746.883	Hypoplastic ventricle, NOS
746.885	Coronary artery anomaly
746.887	Other defects of the atria
746.910	Anomalous bands of heart
746.920	Acyanotic congenital heart disease, NOS

746.930	Cyanotic congenital heart disease, NOS			
747.230—747.290	Anomalies	Anomalies of aorta (all types)		
	747.230	Persistent right aortic arch		
	747.240	Aneurysm of sinus of Valsalva		
	747.250	Vascular ring (includes double aortic arch)		
	747.260	Overriding aorta		
	747.270	Aortic aneurysm		
	747.280	Other specified anomalies of aorta		
	747.290	Unspecified anomalies of aorta		
747.400	Stenosis of	f vena cava (inferior or superior)		
747.410	Persistent	left superior vena cava		

NOS: Not otherwise specified



Congenital Heart Survey To Recognize Outcomes, Needs, and well-beinG

[ID STICKER HERE]

OMB Number: 0920-1122 Expires: 07/31/2017

BASIC INFORMATION

Any information you give will be confidential. You may skip any questions you do not want to answer.

1.	Are	you the person to whom the introduction	lett	er was addressed?
		Yes → Go to #4		
_		No		
	2.	What is your relationship to the person to	wŀ	nom the letter was addressed?
		☐ Partner/Spouse		
		☐ Sibling		
		☐ Parent		
		☐ Other family member		
		☐ Unrelated care giver		
		☐ Other (please specify):		
	3.	What is the primary reason that this perso	n c	annot complete the questionnaire?
	J.	☐ Deceased → Go to #75 on page 13	11 C	annot complete the questionnaire:
		☐ Physically unable☐ Mentally unable		
		☐ Unavailable		
		☐ Other (please specify):		
		Other (picase speerly).		
4.	bec		nge	survey, we are contacting you about this survey enital heart defect, which is a heart problem you questions about your heart problem.
		ou are completing this questionnaire for the blem), please answer all questions with in		
	What is the name of the heart problem that you were born with? Mark all that apply.			
		Aortic valve stenosis		Tetralogy of Fallot (TOF)
	\Box F	Atrial septal defect (ASD)		Transposition of the great arteries (TGA)
		Atrioventricular septal defect (AVSD) or Atrioventricular canal (AV canal)		Tricuspid atresia
		Bicuspid aortic valve		Truncus arteriosus
		Coarctation of aorta		Ventricular septal defect (VSD)
		Hypoplastic left heart syndrome (HLHS)		Other (please provide name):
	□ F	Patent ductus arteriosus (PDA)		
	□ F	Pulmonary atresia		Don't know/not sure
		Pulmonary valve stenosis		No heart problem that I know of (please answer
		Single ventricle (double inlet left ventricle)		remaining questions to the best of your ability)
		,		

SURGERIES

Next, we will ask you questions about any surgeries you may have had on your heart. Heart surgery will result in scars on the middle of your chest, side, or back. Surgeries that occur after the first surgery may use the same scar or create a new scar.

5. Have you ever had surgery for the heart problem you were born with?

periods? <i>Provide numbe</i>		# of Heart Surgeries (enter "0" if no heart surgery)	Had heart surgery but don't know how many	Don't know/ not sure
6. When you were less	than 1 year old?	Surgery)		
7. When you were 1-5 y	years old?			
8. When you were 6-17	years old?			
9. When you were 18 y	ears or older?			
HEALTH INSURANCE The next few questions are about health insurance. When you answer these questions, please think about health insurance obtained through employment or purchased directly, as well as government programs like Medicare and Medicaid that provide medical care or help pay medical bills.				

	for only one type of service (nursing h	th care coverage do you have? Include those that pay some care, accidents, or dental care). Exclude private le hospitalized. If you have more than one kind of
	☐ Private health insurance	☐ State-sponsored health plan
	☐ Medicare	☐ Other government program
	□ Medi-gap	 Single service plan (e.g., dental, vision, prescriptions)
	☐ Medicaid (state-specific names)	☐ Other (please provide name):
	 SCHIP (CHIP/children's health insurance program) 	
	☐ Military health care (Tricare/VA/CHAMP-VA)	☐ Don't know/not sure
	☐ Indian Health Service	
	12. In the past 12 months, was there any t coverage?	ime when you did not have any health insurance
	☐ Yes	
	□ No	
	☐ Don't know/not sure	
13.		h care coverage, how does it compare to a year ago?
	☐ Better	
	Worse	
	☐ About the same	
	☐ Don't know/not sure	
14.	Have you ever been denied health insuran	ce?
	Yes	
	□ No	
	☐ Don't know/not sure	
15.	Have you ever received disability benefits	(do not include Medicaid)?
	Yes	
	□ No	
	☐ Don't know/not sure	
16.	Have you ever been denied disability bene ☐ Yes	fits (do not include Medicaid)?
	□ No	
	☐ Don't know/not sure	
17.	Have you ever been unable to pay or delay	ved payment for medical care, including medications,
	hospital stays, and doctors' visits?	
	☐ Yes	
	□ No	

18.	Was there a time in the past 12 months when you needed to see a doctor but could not because of cost?
	□ Yes
	□ No
	☐ Don't know/not sure
	HEALTH CARE
The	e next set of questions ask about your use of health care.
19.	What kind of place do you go most often when you are sick or need advice about your health a clinic, doctor's office, emergency room, or some other place? (<i>Please choose the place you go most often.</i>)
٢	Clinic or health center
	□ Doctor's office or HMO
4	☐ Hospital emergency room
	☐ Hospital outpatient department
╽┖	□ Some other place
	□ Don't go to one place most often → Go to #23 on page 5
	□ Don't know/not sure → Go to #20
L	20. Have you informed the place you go most often when you are sick or need advice about your health that you were born with a heart problem? ☐ Yes ☐ No
	21. At any time in the past 12 months did you change the place where you usually go for health care? ☐ Yes ☐ No → Go to #23 on page 5
	☐ Don't know/not sure → Go to #23 on page 5
	22. Was this shares for a respect related to health incurrence?
	□ res
	□ Don't know/not sure
	Don't know/hot suic

23.	During the past 12 months, how many times have you gone to a hospital emergency room about your own health (this includes emergency room visits that resulted in hospital admission)?
	□ None
	□ 2-3
	□ 4-5
	□ 6-7
	□ 8-9
	□ 10-12
	□ 13-15
	☐ 16 or more
	□ Don't know/not sure
24.	During the past 12 months, how many separate times have you stayed overnight in the hospital for at least one night for any reason? (Only include times when you were admitted to the hospital. Do not include times where you were in the emergency room overnight.)
	□ None → Go to #26 on page 6
Г	
	□ 2-3
	□ 4-5
	□ 6-7
Н	□ 8-9
	□ 10-12
Ш	□ 13-15
Ш	☐ 16 or more
ᆫ	☐ Don't know/not sure
L	25. Of these times that you stayed overnight in the hospital for at least one night in the past 12 months, how many were because of your heart problem or complications from your heart problem?
	□ None
	\square 1
	□ 2-3
	□ 4-5
	□ 6-7
	□ 8-9
	□ 10-12
	□ 13-15
	☐ 16 or more

26.	In the past 12 months, approximately how many times have you visited the office of any health care provider, such as a doctor, nurse, or physician's assistant, for any reason pertaining to your health? Do not include dentists.							
	None → Go to #28							
	□ 1							
	□ 2-3							
	□ 4-5							
	□ 6-7							
	□ 8-9							
	□ 10-12							
	□ 13-15							
	☐ 16 or more							
	HEART D	OCT	ODS					
	neari D	UC I	UK3					
The	e next few questions ask about visits to a heart of	docto	r (cardiologist) or cardiology clinic.					
	27. How many health care provider visits were that only see patients with heart problems)							
			one with a heart doctor or at a cardiology clinic)					
	Flease effici à fluffiber (effici d	JIIII	one with a heart doctor of at a cardiology clinic					
28.	When is the last time you saw a heart doctor?							
	Less than 1 year							
П	1-2 years							
╽┖	3-5 years							
	☐ More than 5 years → Go to #30		•					
	□ Never seen one → Go to #30 □							
	20 Who are the majority of mation to that your	, C	O If you have not soon a boom deaton in the					
7	29. Who are the majority of patients that your primary heart doctor usually sees?		30. If you have <u>not</u> seen a heart doctor in the last 5 years or ever, why? <i>Mark all that</i>					
	☐ Children and adolescents (pediatric		apply.					
	cardiologist)		☐ Felt well					
	☐ Adults who have had their heart problem		☐ Did not think I needed to see a heart doctor					
	since birth (adult congenital heart		□ Doctor told me I no longer needed to see a					
	cardiologist)		heart doctor					
	☐ Adults (adult cardiologist)		☐ My parents stopped taking me					
			☐ Changed or lost my insurance					
	Go to #31 on page 7		☐ Did not like my heart doctor					
			☐ Couldn't find a heart doctor					
			☐ Other					

31.	When you were a teenager or young adult, need to see a heart doctor throughout your Yes No		care provi	der ever dis	scuss with	you the			
	OFNE		T						
	GENERAL HEALTH								
The	The next few questions ask about your physical and mental health and your interactions with others.								
32.	32. Have you ever been told by a doctor or other health professional that you had any of the following conditions? (Mark all that apply):								
	☐ Diabetes or sugar diabetes	□ A :	stroke						
	☐ Obstructive sleep apnea	☐ As	thma						
	☐ Cancer or a malignancy of any kind	□ An	ulcer (stor	nach, duode	nal or pepti	c ulcer)			
	☐ Congestive heart failure	□ Ar	thritis, gout	, lupus, or fik	oromyalgia				
	$\ \square$ Cardiac dysrhythmias or irregular heart bea	t 🗆 Hy	pertension	, also called	high blood	pressure			
	☐ A mood disorder or depression	□ Ot	her (<i>please</i>	specify):					
	A heart attack (also called myocardial infarction)								
		□ No	ne of the a	bove					
Ma	rk the box that corresponds to your answer	for question	s 33 – 38.						
		Excellent	Very Good	Good	Fair	Poor			
	In general, would you say your health is:								
	In general, would you say your quality of life is:								
	In general, how would you rate your physical health?								
36.	In general, how would you rate your mental health, including your mood and your ability to think?								
37.	In general, how would you rate your satisfaction with your social activities and relationships?								
38.	In general, please rate how well you carry out your usual social activities and roles (this includes activities at home, at work and in your community, and responsibilities as a parent, child, spouse, employee, friend, etc.)?								

_											
39.	To what exter climbing stai							ical activ	ities suc	h as w	valking,
	☐ Completely										
	☐ Mostly										
		,									
	☐ A little										
	☐ Not at all										
40.	In the past 7 anxious, dep			_	ou been	bothered	d by em	otional p	roblems	such	as feeling
	Never										
	□ Rarely										
	Sometimes	5									
	Often										
	□ Always										
	-										
41.	In the past 7	<u>days</u> , h	ow woul	d you ra	ate your	fatigue o	n avera	ge?			
	□ None										
	☐ Mild										
	☐ Moderate										
	Severe										
	□ Very sever	е									
42.	In the past 7 your answer. No pain ← 0		2				6		he box th	9	Worst pain imaginable
	er the last 2 we box that corre					bothered	l by any	of the fo	ollowing	proble	ems? <i>Mark</i>
					١	Not at all	Seve	ral days	More thalf the		Nearly every day
43.	Little interest	or plea	asure in (doing th	nings						
44.	Feeling down	ı, depre	ssed, or	hopele	SS						
With the next set of questions, we want to learn whether you have physical, mental, or emotional conditions that cause serious difficulties with your daily activities.											
45. Are you deaf or do you have serious difficulty hearing? ☐ Yes ☐ No											
46.	46. Are you blind or do you have serious difficulty seeing, even when wearing glasses? ☐ Yes ☐ No										

47.	Because of a physical, mental, of concentrating, remembering, or ☐ Yes ☐ No			ve serious difficu	ulty				
48.	Do you have serious difficulty w	valking or climbin	g stairs?						
	□ No								
49.	Do you have difficulty dressing ☐ Yes ☐ No	or bathing?							
50.	Because of a physical, mental, or alone such as visiting a doctor's			ve difficulty doin	g errands				
	☐ Yes		_						
	□ No								
Ple	ase rate how concerned you are		_						
		Not at all concerned	Not very concerned	Somewhat concerned	Very concerned				
51.	Your future health								
52.	Your ability to have children								
53.	Your overall <u>heart</u> health								
54.	54. Have you completed an advance health care directive, living will, or heath care power of attorney? Yes No Don't know/not sure								
		HEIGHT AND	WEIGHT						
Que	Questions 55 – 57 ask about your height and weight.								
55.	How tall are you without shoes?	?							
	Height in feet and inches (pleas	se give number)	ft.		in.				
56.	How much do you weigh withou you weigh before your pregnand		s? If you are cu	rrently pregnant,	how much did				
	Weight in pounds (please give	number)	por	unds					

57.	What is the most you have ever weighed in your life? (Do not include any times when you were					
	pregnant.)					
	Weight in pounds (please give number) pounds					
	REPRODUCTIVE HEALTH					
	This section is for women only. If you are a man, go to #65 on page 11.					
	Now we will ask you questions about your reproductive health in relation to your heart problem and any pregnancies you have had or are planning.					
58.	Has a doctor, nurse, or other health care worker ever talked with you about special concerns about becoming pregnant because of your heart problem?					
	□ Yes					
	□ No					
59.	Has a doctor, nurse, or other health care worker ever advised you to avoid pregnancy because of your heart problem?					
	□ Yes					
	□ No					
60.	Has a doctor, nurse or other health professional ever talked with you about the safest type of birth control or contraception to use because of your heart problem? See No.					
61.	Have you ever delayed or avoided getting pregnant because of concerns about your health in relation to your heart problem? Yes No					
62.	Have you ever been pregnant? ☐ Yes					
	□ No → Go to #65 on page 11					
	□ Don't know/not sure → Go to #65 on page 11					
	63. How many times have you been pregnant?					
	Please enter a number					
	I lease criter a number					
	64. How many times have you given birth?					
	Please enter a number (enter "0" if never given birth)					

RECORD CONFIRMATION

Now we would like to confirm the information we have in our records and understand how people who completed the survey differ from other people born with a heart problem. Similar to all questions in this survey, any information you give will be confidential. You may skip any questions you do not want to answer. If you are not the person to whom the letter was addressed, please answer with information about the addressee only (that is, the person to whom the introduction letter was addressed).

	Do you consider yourself to be Hispanic or Latino? Yes						
	□ No						
66.	66. What race or races do you consider yourself to be? One or more categories may be selected.						
	☐ American Indian or Alaskan Native						
	☐ Asian						
	☐ Black or African American						
	□ Native Hawaiian or Pacific Islander						
	□ White						
67.	How many times have you been married (or lived as married)?						
	Please enter a number (enter "0" if never been married or lived as married)						
EDUCATION AND WORK HISTORY							
	EDUCATION AND WORK HISTORY						
	EDUCATION AND WORK HISTORY						
Que	EDUCATION AND WORK HISTORY estions 68 – 73 ask about your education and work history.						
_							
_	estions 68 – 73 ask about your education and work history.						
	estions 68 – 73 ask about your education and work history. What is the highest degree or grade you have completed?						
_	estions 68 – 73 ask about your education and work history. What is the highest degree or grade you have completed? Never attended school or only attended kindergarten						
_	estions 68 – 73 ask about your education and work history. What is the highest degree or grade you have completed? Never attended school or only attended kindergarten Less than 9th grade						
	stions 68 – 73 ask about your education and work history. What is the highest degree or grade you have completed? Never attended school or only attended kindergarten Less than 9th grade 9th to 12th grade, no diploma						
_	estions 68 – 73 ask about your education and work history. What is the highest degree or grade you have completed? Never attended school or only attended kindergarten Less than 9th grade 9th to 12th grade, no diploma High school graduate, GED, or alternative						
	Stions 68 – 73 ask about your education and work history. What is the highest degree or grade you have completed? Never attended school or only attended kindergarten Less than 9th grade 9th to 12th grade, no diploma High school graduate, GED, or alternative Some college, no degree						
	Stions 68 – 73 ask about your education and work history. What is the highest degree or grade you have completed? Never attended school or only attended kindergarten Less than 9th grade 9th to 12th grade, no diploma High school graduate, GED, or alternative Some college, no degree Associate degree						

69.	In elementary, junior, or high school were you ever in a special education program? <i>Mark all that apply.</i>
_	□ Special education
╛	□ Advanced placement
ΙL	☐ Homebound education
	□ Not in any of these programs → Go to #71
	□ Don't know/not sure → Go to #71
	Boilt Kilowilot Suite 1 Go to #11
	70. If you were in a special education program, what grades were you in at the time? Mark all that apply.
	☐ Kindergarten-3rd grade
	☐ 4th-6th grade
	☐ 7th-12th grade
	☐ Don't know/not sure
71.	During the last 12 months, did you work for pay at any time at a job or business? <i>Mark all that apply.</i>
	☐ Yes – Full time
	☐ Yes – Part time
	□ No
72.	Has your health kept you from serving in military service or from doing the type of work that you want?
72.	• • • • • • • • • • • • • • • • • • • •
72.	want?
72.	want? Yes
	want? Yes No
	want? Yes No Still in school During the last 12 months, approximately how many days of school or work did you miss
	want? Yes No Still in school During the last 12 months, approximately how many days of school or work did you miss because of illness? Please enter a number
73.	want? Yes No Still in school During the last 12 months, approximately how many days of school or work did you miss because of illness? Please enter a number (enter "0" if did not miss school or work because of illness in last 12 months)
73.	want? Yes No Still in school During the last 12 months, approximately how many days of school or work did you miss because of illness? Please enter a number (enter "0" if did not miss school or work because of illness in last 12 months) I do not attend school nor do I work for pay.

Please continue to the next page.

CONTACT INFORMATION

Finally, we would like some information from you to confirm our records. If you are not the person to whom the letter was addressed, please answer with information about the addressee only (that is, the person to whom the introduction letter was addressed).

75.	What name were you given at birth? Please enter both first and last name.							
		(Please print)						
76.	If your name has changed since birth, what is your current name? Please enter both first and last name.							
		(Please print)						
77.	What is your date of birth?							
	mm dd yyyyy							
prov like	We want to thank you again for participating in this survey. As the survey progresses, we would like to provide you updates about what we learn. Also, the CDC may conduct similar surveys in the future, and would like to offer you an opportunity to participate. Please remember that, if you provide your contact information now, you may change your mind and decline participation in the future.							
78.	If you would like to receive periodic updates on the progress and results of this survey your email address.	, please provide						
		Email address (please print)						
79.	May we contact you in the future to participate in similar surveys? ☐ Yes ☐ No → Go to the end							
	80. Please provide your current mailing address and/or email address, depending on to be contacted. (please print) Street address	how you would like						
	City State	Zip						
	Email address							
	81. It would be helpful if you could provide us with the name and address of someone who new address in case you decide to move in the future. We would contact this person for only if we are unable to reach you at your home address and/or email address. (please Street address	or your new address						
	City State	Zip						
	Email address							

Thank you for your time. It is truly appreciated.



Please return this questionnaire in the provided postage-paid envelope. If you have lost your envelope, please return to:

Centers for Disease Control and Prevention 4770 Buford Hwy Mailstop E-86 (Attn: Sherry Farr) Atlanta, GA 30341

If you have any questions or comments, please visit our website: www.chstrong.org

or contact:

The CH STRONG Project Manager at info@chstrong.org or (800) 586-5505

Public reporting burden of this collection information is estimated to average 20 minutes, including completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer, 1600 Clifton Road NE, MS D-74, Atlanta, GA 30333: ATTN: PRA (0920-1122).