# **MEMORY SURVEY-TIME 2**

This survey will ask about your thoughts and memories from the 2013 Boston marathon bombings. You may skip any questions you do not wish to answer, although we hope that you will answer all questions. Any and all information collected in this study will be kept confidential so you should not include your name on this survey.

Please answer each question to the best of your knowledge as completely as possible. If you do not know/remember the answer to a question, please indicate so. **Do NOT ask someone else for the answer.** 

### **General Questions**

Today's date: \_\_\_\_\_

*Your age:* \_\_\_\_\_\_

Your gender: \_\_\_\_\_

Ethnic Background

- a. Hispanic
- b. Not Hispanic
- c. Prefer not to answer

Racial Background (circle the most appropriate letter)

- a. American Indian or Alaskan Native
- b. Asian or Pacific Islander
- c. African-American, Black (not Hispanic origin)
- d. Caucasian, White (not Hispanic origin)
- e. Other
- f. Prefer not to answer

### QUESTIONS BELOW REFER TO THE EVENTS SURROUNDING THE 2013 BOSTON MARATHON

When you think about the week following the bombings, what are the first three images that come to mind?

What is image 1?

- a. Is this an image you saw at the time the event occurred or an image that you have seen since the time of the event?
- b. Where did you initially see this image?
- *c*. When you picture this image, do you imagine it from your own eyes (i.e., as you saw it originally) or do you picture yourself in the image?
- 2. Image 2?
  - a. Is this an image you saw at the time the event occurred or an image that you have seen since the time of the event?
  - b. Where did you initially see this image?
  - c. When you picture this image, do you imagine it from your own eyes (i.e., as you saw it originally) or do you picture yourself in the image?

3. Image 3?

- *a. Is this an image you saw at the time the event occurred or an image that you have seen since the time of the event?*
- b. Where did you initially see this image?
- c. When you picture this image, do you imagine it from your own eyes (i.e., as you saw it originally) or do you picture yourself in the image?

How did you learn of the bombings (please briefly describe; e.g., on TV, from text message, social media etc)?

Who were you with when you learned of the bombings?

What time did you learn about the bombing?

How did you learn of the "shelter-in-place" ordinance (i.e., the instruction many people in the Boston area received to stay in their homes during the search for the bombing suspect; please briefly describe; e.g., on TV, from text message, social media etc)?

Who were you with when you learned of the "shelter-in-place" ordinance?

What time did you learn about the "shelter-in-place" ordinance?

How did you learn of suspect #2's capture (please briefly describe; e.g., on TV, from text message, social media etc)?

Who were you with when you learned of suspect #2's capture?

What time did you learn about suspect #2's capture?

How many people were initially reported injured and killed in the bombings (be as specific as you remember)?

What is the current estimate of number of people reported injured and killed in the bombings (be as specific as you remember)?

What were the initial cities included in the shelter-in-place ordinance?

What additional cities were included in the "shelter-in-place" ordinance over the course of the day?

What transportation changes took place the day of the bombing because of safety concerns?

Before the two suspects were identified, what was correctly or incorrectly reported about who

was responsible for the bombings?

What was discussed about the JFK library during the week of the bombings? Please indicate what is now known to be true vs. false, and what is still uncertain.

What had been discussed about potential, additional "incendiary devices" during the week of the bombings? Please indicate what is now known to be true vs. false, and what is still uncertain.

What was discussed about cell phone service being shut down during the week of the bombings? Please indicate what is now known to be true vs. false, and what is still uncertain.

#### Please answer the following questions to the best of your ability:

How well do you remember the details of the marathon bombing?

How well do you remember the details of the "shelter-in-place" ordinance?

How well do you remember the details of suspect #2's capture?

What was the intensity of your emotional reaction to the marathon bombings?

What was the intensity of your emotional reaction to the "shelter-in-place" ordinance?

What was the intensity of your emotional reaction to suspect #2's capture?

What was your emotional reaction to the marathon bombings?

What was your emotional reaction to the "shelter-in-place" ordinance?

What was your emotional reaction to suspect #2's capture?

To what extent did you feel in imminent personal danger during the day of the bombings?

To what extent did you feel in imminent personal danger during the days following the marathon bombings?

1......2......3......4.....5.....6......7no personal dangerextreme personal danger

To what extent did you feel in imminent personal danger during the "shelter-in-place" ordinance?

How significant was the "shelter-in-place" ordinance to you personally?

1......2......3.....4.....5.....6......7mildly significantextremely significant

How significant was suspect #2's capture to you personally?

1......2......3......4......5........6.......7mildly significantextremely significant

In your opinion, how significant was the marathon bombing to the city of Boston?

In your opinion, how significant was the "shelter-in-place" ordinance to the city of Boston?

In your opinion, how significant was suspect #2's capture to the city of Boston?

In your opinion, how significant was the marathon bombing to the nation?

In your opinion, how significant was the "shelter-in-place" ordinance to the nation?

 In your opinion, how significant was suspect #2's capture to the nation?

How surprising was the marathon bombing to you?

How surprising was the "shelter-in-place" ordinance to you?

How surprising was suspect #2's capture to you?

When I think of the marathon bombing, I think about the negative aspects -- the harm and devastation caused

When I think of the marathon bombing, I think about the positive aspects -- the heroism, the way the city has come together

When I think of the "shelter-in-place" ordinance, I think about the negative aspects -- the anxiety and the sense of fear in the city

When I think of the "shelter-in-place" ordinance, I think about the positive aspects -- the heroism of police officers, the way the city has come together

 When I think of suspect #2's capture, I think about the negative aspects – the violence, the destruction

entirely untrue

entirely true

When I think of suspect #2's capture, I think about the positive aspects -- the heroism of police officers, the patriotism and city pride

When I think of the six months since the marathon bombings, I feel more connected to others in the Boston area

My memories of the week of the marathon bombing often occur automatically or involuntarily

I have found it hard to stop thinking about the events surrounding the marathon bombing

When I think of the week of the marathon bombings, details come to me in visual flashes

When I think of the week of the marathon bombings, details come to me as part of a narrative

I have had a dream(s) related to the events surrounding the marathon bombing

When I think of one of the events surrounding the marathon bombing, I naturally lump them together—memory of one event naturally leads to memory of other events

entirely untrue

entirely true

Over the last six months, how often have you thought about the events surrounding the marathon bombings?

1......2......3......4......5......6......7Very RarelyOccasionallyVery Frequently

*Over the last six months, how often have you discussed the events surrounding the marathon bombings?* 

Very Rarely Occasionally Very Frequently 1......7

Over the last six months, how often have you discussed the events:

In large groups?						
Very Rarely	Occ	asionally		Ver	y Freq	uently
12	.3	4	.5	6		
One-on-one with another person?						
V D 1	0	• 11		<b>X</b> 7	Г	.1

With someone who was at the marathon on the day of the bombings?Very RarelyOccasionallyVery Frequently1......2.....3.....4.....5......6......7

Over the last six months, how did you get additional news about the events surrounding the bombings (please circle all that apply and indicate the extent to which each was used)? Very Rarely Occasionally Very Frequently

Television	1	2	3	4	5	6	7
Friends and family	1	2	3	4	5	6	7
Social Media	1	2	3	4	5	6	7
Radio	1	2	3	4	5	6	7
Police Scanner	1	2	3	4	5	6	7

Other (please specify:			,	)		
	1	2	3		 6	.7

Are you on Facebook? (circle one; if No, skip to the next question) No Yes

If Yes, what were your friends posting (please briefly describe; e.g. information, personal stories, emotional support for people in Boston, etc)? Were these posts primarily positive (e.g., stories of heroics or human strength) or negative (e.g., anger at the bomber or fear)?

If Yes, did you post on Facebook about the bombings? No Yes

If Yes, what did you post (please briefly describe; e.g. information, personal stories, emotional support for people in Boston, etc)?

If Yes, how have posts about the bombings changed over the last six months?

Are you on Twitter? (circle one; if No, skip to the next question) No Yes

If Yes, what were your friends tweeting (please briefly describe; e.g. information, personal stories, emotional support for people in Boston, etc)? Were these tweets primarily positive (e.g., stories of heroics or human strength) or negative (e.g., anger at the bomber or fear)?

If Yes, did you tweet about the bombings? No Yes

If Yes, what did you tweet (please briefly describe; e.g. information, personal stories, emotional support for people in Boston, etc)?

If Yes, how have tweets about the bombings changed over the last six months?

What was the content of phone calls and emails that you received immediately after the bombings (please briefly describe; e.g. information, personal stories, emotional support for people in Boston, etc)? Was this information primarily positive (e.g., stories of heroics or human strength) or negative (e.g., anger at the bomber or fear)?

What were some of the stories of heroism and helping that you remember from the day of the bombing (give a brief description of any you remember)?

What were some of the stories of heroism and helping that you remember from the day of the "shelter-in-place" ordinance (give a brief description of any you remember)?

Did watching this event make you think of other events from your past (please describe)?

The week surrounding the Boston Marathon bombings brought to light a number of important individuals. Think about the following list (alphabetized by first name) and whether you a) know who they are, b) have heard the name, but don't know anything else about them, or c) have never heard the name. For all individuals, even those who you do not know, think about whether you are mostly similar to (S) or mostly different from (D) them in relation to the items listed.

Adam Williams (Channel 7 reporter)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

Ethnicity	<u>Age</u>	Political Views	Educatio n	<u>Social</u> Life	Extracurricul ar Activities	<u>Upbringin</u> g	Ambition s
Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different

#### Carlos Arrendondo (Man with cowboy hat at marathon)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

Ethnicity	Age	Political	<u>Educatio</u>	Social	Extracurricul	<u>Upbringin</u>	Ambition
		Views	<u>n</u>	Life	ar Activities	g	<u>s</u>
Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different

### David Henneberry (Man who discovered Dzhokhar in his boat)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

Ethnicity	Age	Political	Educatio	Social	Extracurricul	<u>Upbringin</u>	Ambition
		Views	<u>n</u>	Life	ar Activities	g	<u>s</u>

	Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different	
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### Dzhokhar Tsarnaev (Younger brother)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

Ethnicity	<u>Age</u>	<u>Political</u> <u>Views</u>	<u>Educatio</u> <u>n</u>	<u>Social</u> <u>Life</u>	Extracurricul ar Activities	<u>Upbringin</u> g	<u>Ambition</u> <u>s</u>
Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different

### Edward Deveau (Watertown Police Chief)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

Ethnicity	Age	Political	Educatio	Social	Extracurricul	<u>Upbringin</u>	Ambition
		Views	<u>n</u>	<u>Life</u>	ar Activities	g	<u>s</u>
Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different

### Lelisa Desisa (Winner of the marathon)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

Ethnicity	<u>Age</u>	<u>Political</u> <u>Views</u>	<u>Educatio</u> <u>n</u>	<u>Social</u> <u>Life</u>	Extracurricul ar Activities	<u>Upbringin</u> g	<u>Ambition</u> <u>s</u>
Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different

### Tamerlan Tsarnaev (Older brother)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

Ethnicity	<u>Age</u>	Political Views	<u>Educatio</u> <u>n</u>	<u>Social</u> Life	Extracurricul ar Activities	<u>Upbringin</u> g	<u>Ambition</u> <u>s</u>
Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different

#### Thomas Menino (Boston Mayor)

- a) I have heard his name and know who he is
- b) I have heard his name, but do not know who he is
- c) I have never heard his name

	Ethnicity	<u>Age</u>	<u>Political</u> <u>Views</u>	<u>Educatio</u> <u>n</u>	<u>Social</u> <u>Life</u>	Extracurricul ar Activities	<u>Upbringin</u> g	<u>Ambition</u> <u>s</u>
	Similar / Different	Similar / Different	Similar / Different	Similar / Different	Similar / Differen t	Similar / Different	Similar / Different	Similar / Different

Imagine yourself as a runner in this past year's marathon. Think about the hours leading up to the race and how the runner was feeling before it began. How well are you able to imagine how they felt at the beginning of the race?

Not well		Re	Reasonably well			Very well		
	1	2	3	4	5	6	7	

Will you be more or less likely to attend a Boston Marathon in the future than if the bombings had not occurred?

The following table asks you whether you have completed activities prior to the marathon and whether you plan to complete them in the future. For each item, please circle Yes or No.

	Make a donation to a Boston charity?	Volunteer for a Boston charity?	Give Blood?
Before the marathon bombings, did you ever:	Yes / No	Yes / No	Yes / No
After the marathon bombings, did you:	Yes / No	Yes / No	Yes / No
In the last 3 months, did you:	Yes / No	Yes / No	Yes / No
In the future, do you plan to:	Yes / No	Yes / No	Yes / No

How much information have you learned about the suspected bombers and their background since they were identified?

To what extent did you seek out additional information about the bombers and their background?

What was your first reaction when you learned that one of the bombers was a local college student? Please briefly explain the reason for this reaction.

What was your reaction to the Rolling Stone cover and article about the bomber? Please briefly explain the reason for this reaction.

#### The following questions have to do with the *younger* brother (Dzhokhar Tsarnaev):

To what extent do you believe that the *character* of the younger brother (Dzhokhar) contributed to his involvement in the bombings? (In other words, to what extent do you think his mental and moral qualities contributed to his participation in this type of attack?)

No contributionSome contributionA major contribution1......2.....3.....4.....5.....6......7

To what extent do you believe that the *upbringing* of the younger brother (Dzhokhar) contributed to his involvement in the bombings? (In other words, to what extent do you think events and exposures in his childhood and adolescence contributed to his participation in this type of attack?)

No contributionSome contributionA major contribution1......2.....3.....4.....5.....6......7

To what extent do you believe that the *immediate life situation* of the younger brother (Dzhokhar), in the days or weeks preceding the attack, contributed to his involvement in the bombings?

No contributionSome contributionA major contribution1......2.....3.....4.....5.....6......7

To what extent do you believe that the younger brother (Dzhokhar) *currently* feels remorse for his actions?

To what extent do you believe that the younger brother (Dzhokhar) will *eventually* feel remorse for his actions?

### The following questions have to do with the *older* brother (Tamerlan Tsarnaev):

To what extent do you believe that the *character* of the older brother (Tamerlan) contributed to his involvement in the bombings? (In other words, to what extent do you think his mental and moral qualities contributed to his participation in this type of attack?)

No contributionSome contributionA major contribution1......2.....3.....4.....5......6......7

To what extent do you believe that the *upbringing* of the older brother (Tamerlan) contributed to his involvement in the bombings? (In other words, to what extent do you think events and exposures in his childhood and adolescence contributed to his participation in this type of attack?)

No contributionSome contributionA major contribution1......2.....3.....4.....5.....6......7

To what extent do you believe that the *immediate life situation* of the older brother (Tamerlan), in the days or weeks preceding the attack, contributed to his involvement in the bombings?

No contributionSome contributionA major contribution1......2.....3.....4.....5.....6......7

To what extent do you believe that the older brother (Tamerlan) would *currently* feel remorse for his actions, had he survived?

To what extent do you believe that the older brother (Tamerlan) would *eventually* feel remorse for his action, had he survived?

No remorseSome remorseSubstantial remorse1......2.....3....4.....5.....6......7

Please use the space below to share any other information you would like about what you remember about the events surrounding the Boston Marathon bombings.

Select				
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list of				
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ng?	·	h		1
	inactive	happy	amused	calm
	energetic	 distressed	 pleasant	 confused
	gloomy	 anxious	 relaxed	 unpleasant
	cheerful	 enthusiastic	 interested	 shocked
	excited	 worried	 sad	 aroused
	c · · ·			 disappointe
	afraid	angry	nervous	d

Selecting from the list of emotion words below, what were the THREE main emotions that were generated for you by the "shelter-in-place" ordinance?

U	5 5	1		
	inactive	 happy	 amused	 calm
	energetic	 distressed	 pleasant	 confused
	gloomy	 anxious	 relaxed	 unpleasant
	cheerful	 enthusiastic	 interested	 shocked
	excited	 worried	 sad	 aroused
				 disappointe
	afraid	angry	nervous	d

Selecting from the list of emotion words below, what were the THREE main emotions that were

## generated for you by suspect #2's capture?

 inactive	 happy	 amused	 calm
 energetic	 distressed	 pleasant	 confused
 gloomy	 anxious	 relaxed	 unpleasant
 cheerful	 enthusiastic	 interested	 shocked
 excited	 worried	 sad	 aroused
			 disappointe
afraid	angry	nervous	d

Selecting from the list of emotion words below, what were the THREE main emotions that were generated for you by learning of suspect #2's identity?

 inactive	 happy	 amused	 calm
 energetic	 distressed	 pleasant	 confused
 gloomy	 anxious	 relaxed	 unpleasant
 cheerful	 enthusiastic	 interested	 shocked
 excited	 worried	 sad	 aroused
			 disappointe
afraid	angry	nervous	d