



University of
Massachusetts
Lowell

Center for Public Opinion

Dr. Joshua J. Dyck and Dr. Francis Talty, Co-Directors

<http://www.uml.edu/polls>

Citizen Attitudes about Sports, Concussions and CTE

Survey Conducted by YouGov

5/31/16-6/6/16

N=1,000 American Adults

Credibility Interval: +/-4.24% (adjusted for weights)

National Internet Panel Survey matched to 2010 ACS

Survey Design by Dr. Joshua J. Dyck and Dr. Jeffrey Gerson

Survey Analysis by Dr. Joshua J. Dyck

Methodology

This poll was independently funded by the University of Massachusetts Lowell, designed and analyzed by the Center for Public Opinion and fielded by YouGov. Data was collected online using YouGov's convenience sample. YouGov interviewed 1152 respondents who were then matched down to a sample of 1000 to produce the final dataset. The respondents were matched to a sampling frame on gender, age, race, education, party identification, ideology, and political interest. The frame was constructed by stratified sampling from the full 2010 American Community Survey (ACS) sample with selection within strata by weighted sampling with replacements (using the person weights on the public use file). Data on voter registration status and turnout were matched to this frame using the November 2010 Current Population Survey. Data on interest in politics and party identification were then matched to this frame from the 2007 Pew Religious Life Survey. The matched cases were weighted to the sampling frame using propensity scores. The matched cases and the frame were combined and a logistic regression was estimated for inclusion in the frame. The propensity score function included age, gender, race/ethnicity, years of education, and ideology. The propensity scores were grouped into deciles of the estimated propensity score in the frame and post-stratified according to these deciles. The sample is representative of the US population with a credibility interval of +/-4.24% when adjusted for weighting.

[Q601]

Generally speaking, how often would you say that you watch either sports or sports news on television?

- 11% Every day
- 18 Most days (more than once a week)
- 15 Once a week
- 11 Once every few weeks
- 4 Once a month
- 4 Once a year
- 19 Almost never
- 18 Never

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Every day/Most days	40	19	27	35	34	25
Once a week – Once a month	31	29	28	37	29	40
Once a year – Never	29	52	45	28	36	35

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Every day/Most days	19	33	36	33	23	32	41	25
Once a week – Once a month	33	25	33	32	30	29	27	37
Once a year – Never	47	42	30	35	47	39	32	38

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Every day/Most days	16	22	30	40	32	23	31
Once a week – Once a month	37	30	32	26	28	35	29
Once a year – Never	47	48	38	34	40	42	41

[Q602]

And what professional or college sport would you say you watch most frequently?

- 12 Baseball
- 11 Basketball
- 31 Football
- 2 Hockey
- 6 Soccer
- 3 Mixed Martial Arts/Ultimate Fighting
- 1 Tennis
- 5 Something else
- 28 I don't watch sports

[Q603-Q609]

Which of the following sports do you personally approve of children (under 18) participating in?

	Tackle Football	Basketball	Ice Hockey	Soccer	Baseball	Wrestling	Flag Football
Approve	50	87	60	84	87	60	77
Disapprove	33	5	25	7	5	23	8
Don't Know	17	8	16	9	8	17	14

Tackle Football

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Approve	59	41	52	34	47	50
Disapprove	27	38	33	42	23	33
Don't Know	14	21	14	24	30	17

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Approve	43	56	53	48	50	56	47	31
Disapprove	31	29	37	36	32	29	34	52
Don't Know	26	15	10	17	19	15	18	17

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Approve	55	46	59	52	39	51	50
Disapprove	28	30	28	31	46	36	33
Don't Know	17	24	12	17	15	13	17

Basketball

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Approve	88	86	89	78	87	86
Disapprove	6	4	5	5	5	7
Don't Know	6	10	6	18	8	7

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Approve	82	88	92	95	85	89	86	93
Disapprove	6	7	3	2	5	4	7	0
Don't Know	12	589	5	3	10	7	7	7

Basketball (continued)

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Approve	84	87	84	89	90	90	87
Disapprove	7	6	7	2	4	5	5
Don't Know	10	8	8	9	6	6	9

Ice Hockey

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Approve	66	54	63	38	57	70
Disapprove	22	27	23	37	21	23
Don't Know	12	19	14	25	21	7

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Approve	51	59	69	67	54	65	68	50
Disapprove	28	28	18	22	28	20	20	33
Don't Know	21	13	13	11	18	14	12	17

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Approve	64	60	59	60	54	59	60
Disapprove	20	22	24	26	31	27	24
Don't Know	16	18	17	14	15	14	16

Soccer

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Approve	86	82	85	66	88	88
Disapprove	8	7	6	16	6	6
Don't Know	6	12	8	18	7	5

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Approve	77	86	89	90	80	86	85	90
Disapprove	11	5	5	6	10	5	6	2
Don't Know	12	8	5	4	10	8	9	8

Soccer (continued)

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Approve	83	83	85	84	83	84	84
Disapprove	9	8	6	5	8	10	6
Don't Know	8	8	8	10	9	5	10

Baseball

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Approve	89	85	88	76	89	87
Disapprove	6	4	5	7	3	7
Don't Know	5	11	7	17	8	6

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Approve	82	87	92	95	85	87	90	91
Disapprove	7	7	3	1	6	5	5	2
Don't Know	11	6	4	4	10	8	5	6

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Approve	81	90	88	87	89	87	87
Disapprove	11	3	4	4	3	7	4
Don't Know	9	7	8	9	7	6	8

Wrestling

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Approve	69	52	63	42	59	68
Disapprove	19	27	24	29	15	18
Don't Know	12	21	13	28	27	14

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Approve	50	60	71	70	51	70	64	62
Disapprove	27	24	20	19	28	19	21	19
Don't Know	23	16	10	11	22	11	15	18

Wrestling (continued)

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Approve	57	56	65	66	54	59	61
Disapprove	23	25	21	19	28	28	21
Don't Know	20	19	14	14	18	13	18

Flag Football

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Approve	83	72	80	67	72	83
Disapprove	7	9	8	13	6	10
Don't Know	10	19	12	20	22	8

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Approve	65	83	86	86	69	84	81	89
Disapprove	13	6	6	3	11	6	6	5
Don't Know	22	11	8	11	19	10	14	7

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Approve	73	79	82	81	75	79	77
Disapprove	13	9	6	5	8	11	7
Don't Know	13	16	12	14	16	10	16

[Q610-Q616]

Would you approve or disapprove of your own child/children (under 18) participating in the following sports? (N=304)

	Tackle Football	Basketball	Ice Hockey	Soccer	Baseball	Wrestling	Flag Football
Approve	43	88	51	83	85	51	69
Disapprove	44	5	36	10	9	37	21
Don't Know	13	7	14	7	6	12	10

As you know, there has been a lot of talk about concussions and head injuries in sports as of late. We want to know what you think.

[Q617]

Generally speaking, how big of a problem to you think that concussions or head injuries are in sports? Are they...

- 65% A major problem
- 29 A minor problem
- 4 Not much of a problem
- 2 Not a problem at all

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
A major problem	58	72	65	76	66	59
A minor problem	36	22	33	13	28	17
Not much of a problem	5	4	2	5	5	23
Not a problem at all	1	2	1	6	1	1

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
A major problem	64	62	64	74	66	61	62	83
A minor problem	27	32	31	22	27	32	35	17
Not much of a problem	5	6	4	4	6	5	2	0
Not a problem at all	4	1	1	0	2	2	*	0

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
A major problem	60	62	55	66	80	63	66
A minor problem	32	32	37	30	16	30	29
Not much of a problem	6	4	7	3	3	7	4
Not a problem at all	2	3	2	1	*	1	2

	Watch Sports?		
	Frequently	Moderately	Rarely
A major problem	66	57	70
A minor problem	27	37	24
Not much of a problem	6	4	4
Not a problem at all	2	2	2

For the following statement, please indicate, to the best of your own knowledge whether they are certainly true, probably true, probably false or certainly false.

[Q618]

Version a (asked to ½ sample): **There is a settled science that playing football can cause a progressive degenerative brain disease called Chronic Traumatic Encephalopathy or “CTE”**

Version b (asked to ½ sample): **There is a settled science that playing football causes brain injuries**

	Version		
	a	b	Combined
Certainly True	31	32	32
Probably True	54	49	51
Probably False	13	18	15
Certainly False	3	1	2

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Certainly True	32	31	32	37	23	37
Probably True	52	50	51	46	56	47
Probably False	14	16	15	15	15	15
Certainly False	2	2	2	1	6	1

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Certainly True	31	27	30	38	33	28	30	44
Probably True	55	53	50	48	52	54	49	43
Probably False	13	16	18	12	14	15	20	11
Certainly False	1	3	2	1	2	3	2	2

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Certainly True	35	25	33	36	27	30	32
Probably True	49	59	45	48	56	47	53
Probably False	14	12	19	15	15	19	14
Certainly False	2	3	4	2	1	4	2

	Watch Sports?		
	Frequently	Moderately	Rarely
Certainly True	32	31	32
Probably True	55	53	47
Probably False	10	16	17
Certainly False	2	*	4

[Q619]

Repeated brain trauma that results in Chronic Traumatic Encephalopathy (CTE) is a serious public health issue

36% Certainly True
 51 Probably True
 10 Probably False
 3 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Certainly True	29	42	36	53	22	40
Probably True	57	46	52	42	64	37
Probably False	11	9	11	2	7	17
Certainly False	3	3	2	3	7	6

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Certainly True	35	27	39	46	37	31	36	45
Probably True	52	60	50	39	51	57	44	46
Probably False	11	8	9	12	9	8	18	7
Certainly False	2	5	2	3	3	4	2	2

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Certainly True	30	36	29	34	49	35	36
Probably True	61	49	50	54	42	50	52
Probably False	8	8	18	10	7	12	9
Certainly False	1	7	3	3	2	3	3

	Watch Sports?		
	Frequently	Moderately	Rarely
Certainly True	35	38	35
Probably True	52	50	51
Probably False	9	10	10
Certainly False	3	2	4

[Q620]

Heading the ball in soccer is safe for children before they reach high school

6% Certainly True
 34 Probably True
 46 Probably False
 14 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Certainly True	8	4	4	12	9	7
Probably True	35	33	28	41	52	42
Probably False	45	46	52	27	35	44
Certainly False	12	16	16	20	5	7

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Certainly True	4	5	8	9	7	6	3	6
Probably True	43	33	26	33	37	37	31	15
Probably False	40	51	53	39	40	44	57	60
Certainly False	13	11	14	19	16	13	9	20

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Certainly True	6	9	10	4	2	7	6
Probably True	42	40	44	28	22	43	31
Probably False	43	42	38	52	49	40	48
Certainly False	8	9	8	16	27	10	15

	Watch Sports?		
	Frequently	Moderately	Rarely
Certainly True	8	6	5
Probably True	32	36	33
Probably False	46	45	47
Certainly False	14	13	15

[Q621]

Tackle football is a safe activity for children before they reach high school

6% Certainly True
 31 Probably True
 40 Probably False
 23 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Certainly True	8	4	5	11	7	8
Probably True	33	28	28	23	44	44
Probably False	39	42	42	41	38	26
Certainly False	20	26	26	25	11	22

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Certainly True	8	5	5	5	8	5	1	4
Probably True	34	33	28	27	32	34	29	12
Probably False	37	42	43	38	36	40	48	48
Certainly False	20	21	24	30	23	20	22	36

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Certainly True	7	12	8	3	2	12	4
Probably True	34	31	33	31	25	31	30
Probably False	40	39	40	43	39	37	42
Certainly False	19	18	19	24	34	20	24

	Watch Sports?		
	Frequently	Moderately	Rarely
Certainly True	7	7	4
Probably True	35	32	26
Probably False	37	41	41
Certainly False	20	20	29

[Q622]

Tackle football is a safe activity for children during high school

7% Certainly True
 45 Probably True
 32 Probably False
 16 Certainly False

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Certainly True	10	5	7	7	8	11
Probably True	48	42	43	42	50	52
Probably False	28	34	34	27	29	21
Certainly False	14	19	16	24	13	16

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Certainly True	7	9	8	7	7	11	3	5
Probably True	47	51	42	34	49	43	45	27
Probably False	30	26	34	41	28	31	35	45
Certainly False	16	14	17	17	16	15	17	24

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Certainly True	10	10	11	4	5	10	6
Probably True	47	47	44	46	39	46	45
Probably False	33	28	27	32	37	30	32
Certainly False	10	16	17	19	19	15	17

	Watch Sports?		
	Frequently	Moderately	Rarely
Certainly True	9	7	7
Probably True	48	48	41
Probably False	29	32	32
Certainly False	14	14	20

[Q624]

At what age do you think it is appropriate to introduce tackling into football?

- 9% At all ages
- 13 10 years and up
- 35 14 and up
- 23 18 and up
- 20 Never

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
At all ages	12	6	8	8	11	10
10 years and up	16	10	12	14	17	7
14 and up	36	35	36	26	35	49
18 and up	21	24	22	32	19	23
Never	15	25	22	20	18	12

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
At all ages	11	6	8	6	9	10	5	6
10 years and up	14	12	15	13	13	15	12	5
14 and up	31	41	37	33	36	37	33	31
18 and up	26	20	20	27	22	20	28	26
Never	19	21	19	21	19	18	21	32

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
At all ages	13	11	10	6	5	10	8
10 years and up	13	14	14	16	7	21	10
14 and up	42	31	33	36	34	30	38
18 and up	22	24	28	19	25	20	24
Never	10	20	15	24	30	19	20

	Watch Sports?		
	Frequently	Moderately	Rarely
At all ages	8	8	10
10 years and up	17	15	9
14 and up	34	39	33
18 and up	20	25	23
Never	20	13	26

[Q625-Q631]

Consider the following organizations. For each, please indicate if you think that they have made appropriate changes, have not done enough, or have done too much in response to new evidence about concussions and brain injuries in sports?

ALL RESPONDENTS

	NFL	NCAA	NHL
Appropriate Changes	22	19	15
Not Enough	43	38	36
Done Too Much	4	2	3
Don't Know	31	41	46

	Local School or School District	Pop Warner Football	USA Hockey	US Soccer Federation
Appropriate Changes	16	11	12	14
Not Enough	30	25	30	27
Too Much	3	4	4	4
Don't Know	51	60	55	55

WITHOUT DON'T KNOWS

	NFL ¹	NCAA ²	NHL ³
Appropriate Changes	32	31	28
Not Enough	62	65	66
Done Too Much	5	4	6

1. n=696

2. n=601

3. n=555

	Local School or School District ⁴	Pop Warner Football ⁵	USA Hockey ⁶	US Soccer Federation ⁷
Appropriate Changes	33	28	26	31
Not Enough	61	62	66	61
Too Much	5	9	8	9

4. n=499

5. n=414

6. n=452

7. n=461

[Q625]

The National Football League (NFL)

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Appropriate Changes	28	17	19	31	25	33
Not Enough	46	39	49	38	26	22
Too Much	5	3	4	1	5	6
Don't Know	21	42	28	30	44	39

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Appropriate Changes	24	25	22	20	27	20	20	10
Not Enough	32	42	49	57	35	40	50	76
Too Much	3	4	7	1	2	4	6	3
Don't Know	42	30	21	22	35	35	24	11

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Appropriate Changes	22	24	24	23	17	29	20
Not Enough	34	30	38	49	58	31	47
Too Much	6	7	2	2	2	4	3
Don't Know	38	39	36	26	23	36	30

	Watch Sports?		
	Frequently	Moderately	Rarely
Appropriate Changes	38	32	12
Not Enough	52	44	34
Too Much	4	4	3
Don't Know	16	20	51

[Q626]

The National Collegiate Athletic Association (NCAA)

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Appropriate Changes	24	13	17	22	19	23
Not Enough	44	33	42	44	24	25
Too Much	1	3	2	1	6	3
Don't Know	31	51	39	33	51	49

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Appropriate Changes	18	21	21	19	21	15	22	12
Not Enough	28	37	46	47	32	36	41	71
Too Much	1	4	3	1	2	4	2	1
Don't Know	52	39	30	33	44	46	35	17

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Appropriate Changes	20	15	20	21	15	21	18
Not Enough	27	33	33	43	52	33	40
Too Much	1	5	3	2	*	3	2
Don't Know	52	47	43	33	33	43	40

	Watch Sports?		
	Frequently	Moderately	Rarely
Appropriate Changes	27	26	8
Not Enough	48	40	29
Too Much	1	4	3
Don't Know	25	31	61

[Q627]

The National Hockey League (NHL)

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Appropriate Changes	20	10	14	20	17	9
Not Enough	38	34	39	37	24	32
Too Much	4	2	3	5	5	3
Don't Know	38	53	44	38	53	56

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Appropriate Changes	13	16	19	16	17	12	19	7
Not Enough	26	32	44	46	32	35	34	63
Too Much	5	5	3	1	4	3	5	0
Don't Know	56	48	35	37	47	50	42	30

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Appropriate Changes	11	19	21	14	14	22	13
Not Enough	28	25	27	44	50	29	38
Too Much	6	5	4	2	1	4	3
Don't Know	56	52	48	41	35	45	46

	Watch Sports?		
	Frequently	Moderately	Rarely
Appropriate Changes	21	21	7
Not Enough	45	35	29
Too Much	3	5	2
Don't Know	31	39	62

[Q628]

Your local school or school district

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Appropriate Changes	19	13	16	21	14	17
Not Enough	33	27	33	28	20	24
Too Much	3	2	2	2	4	6
Don't Know	45	58	50	49	61	54

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Appropriate Changes	13	17	23	14	16	16	19	11
Not Enough	21	28	35	38	30	27	24	54
Too Much	3	5	2	1	2	4	4	1
Don't Know	63	49	40	48	52	54	54	35

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Appropriate Changes	17	17	18	16	14	25	13
Not Enough	18	24	26	38	40	27	31
Too Much	3	3	4	2	1	3	2
Don't Know	62	56	52	45	45	46	54

	Watch Sports?		
	Frequently	Moderately	Rarely
Appropriate Changes	24	18	9
Not Enough	35	30	25
Too Much	3	2	3
Don't Know	38	50	63

[Q629]

Pop Warner Football

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Appropriate Changes	14	9	11	14	13	9
Not Enough	30	21	26	28	17	27
Too Much	4	4	3	8	6	1
Don't Know	52	67	60	50	64	64

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Appropriate Changes	10	13	15	11	13	10	10	8
Not Enough	19	23	31	26	24	23	23	42
Too Much	5	5	3	3	4	5	4	0
Don't Know	66	58	52	60	59	62	63	50

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Appropriate Changes	8	15	15	9	11	20	8
Not Enough	17	18	23	32	31	22	26
Too Much	6	4	5	3	1	6	3
Don't Know	69	63	57	56	56	52	63

	Watch Sports?		
	Frequently	Moderately	Rarely
Appropriate Changes	18	12	6
Not Enough	32	25	19
Too Much	4	7	2
Don't Know	46	56	73

[Q630]

USA Hockey

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Appropriate Changes	15	8	11	19	13	6
Not Enough	33	27	31	39	20	23
Too Much	6	2	3	3	7	8
Don't Know	46	63	55	39	61	63

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Appropriate Changes	11	13	14	10	13	12	12	5
Not Enough	25	26	37	32	30	27	24	51
Too Much	5	6	1	2	4	3	5	0
Don't Know	59	55	47	55	52	58	59	44

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Appropriate Changes	7	16	16	11	11	16	10
Not Enough	24	21	24	36	40	29	30
Too Much	8	4	4	2	1	4	4
Don't Know	61	60	57	51	47	51	57

	Watch Sports?		
	Frequently	Moderately	Rarely
Appropriate Changes	16	16	6
Not Enough	40	29	23
Too Much	4	4	4
Don't Know	41	51	68

[Q631]

U.S. Soccer Federation

	Gender		Race/Ethnicity			
	Male	Female	White	Black	Latino	Other
Appropriate Changes	18	10	14	15	16	6
Not Enough	29	26	28	30	22	31
Too Much	5	3	3	6	7	6
Don't Know	47	62	55	50	55	57

	Income				Education			
	Less than \$30K	\$30K-\$50K	\$50K-\$100K	\$100K +	High School or less	Some College	College Degree	Post-Grad
Appropriate Changes	10	14	20	15	15	13	12	11
Not Enough	21	25	32	34	26	26	23	49
Too Much	6	7	1	1	4	5	5	0
Don't Know	63	54	46	50	55	56	60	40

	Age					Parent	
	18-29	30-39	40-49	50-64	65+	Yes	No
Appropriate Changes	8	16	15	16	13	21	11
Not Enough	19	18	24	33	40	25	28
Too Much	8	5	4	1	1	3	4
Don't Know	64	61	57	49	45	51	56

	Watch Sports?		
	Frequently	Moderately	Rarely
Appropriate Changes	20	16	8
Not Enough	35	28	21
Too Much	3	6	3
Don't Know	42	50	68

[Q632]

Do you personally know anyone who has been diagnosed with Post-Concussion Syndrome?

- 6% Yes
- 85% No
- 9% Don't know/Unsure