## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth Ri	sk Beha	avior an	d Perce	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN6: P	ercentag	ge of stu	dents w	ho rarel	y or nev	er wore	a bicyc	le helme	et (amoi	ng stude	nts who	had ric	den a	•			
											67.8	60.9	59.7	54.9	No linear change	Not available <sup>§</sup>	No change
							a helme	et when	rollerbl	ading or	r skateb	oarding	(among				
							a helme	et when	rollerbl	ading or	r skateb	oarding 67.9	(among	60.5	No linear change	Not available	No change
QN7: P students QN8: P	who us	ed roller	blades (	or rode a	a skateb	oard)			,		72.9				No linear change	Not available	No

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth R	isk Beh	avior ar	d Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN9: P	ercentag	ge of stu	idents w	ho ever	rode wi	ith a driv	er who	had bee	n drinki	ng alco	hol (in	a car)					
											20.5	17.5	21.8	16.8	No linear change	Not available <sup>§</sup>	Decreased
QN10: 1	Percenta	age of s	tudents	who eve	r carrie	d a wear	oon (suc	h as a gi	un, knif	e, or clu							
											29.7	27.1	26.6	21.4	Decreased, 2013-2018	Not available	Decreased
QN11: 1	Percenta	age of s	tudents	who wei	re ever i	n a phys	sical figl	nt			50.3	42.4	45.7	41.1	No linear change	Not available	No change
_											30.3		13.7	71.1	Two finedic change	rvot avanasie	110 change
QN14: 1	Percenta	age of s	tudents	who eve	r seriou	sly thou	ght abou	ıt killing	g thems	elves	19.6	15.9	18.4	19.2	No linear change	Not available	No change
											17.0	13.5	10.1	19.2	Two micar change	Tion available	- To change
			tudents	_													

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Total Injury an	ıd Viole	ence															
				Н	ealth R	isk Beh	avior aı	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN16:	Percent	age of s	tudents	who eve	er tried t	o kill the	emselve	S			•		7.0	6.4	No linear change	Not available <sup>§</sup>	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Tobacco	Use																
				Н	ealth R	isk Beha	avior ar	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 $^\dagger$
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
QN17:	Percent	age of s	tudents	who eve	er tried c	igarette	smokin	g (even	one or t	wo puff	fs)				•		
													5.8	5.0	No linear change	Not available <sup>§</sup>	No change
QN18: puffs)	Percent	age of s	tudents	who trie	d cigare	ette smol	king for	the first	t time be	efore ag	e 11 yea	ars (eve	n one or	two			
pulls)													2.8	1.7	No linear change	Not available	No change
QN19: survey)	Percent	age of s	tudents	who cur	rently s	moked c	igarette	s (on at	least 1 o	lay duri	ng the 3	30 days	before the	he			
											3.6	3.0	1.0	0.8	Decreased, 2013-2018	Not available	No change
QNFRC days bef				ents who	o curren	itly smol	ked ciga	rettes fr	equentl	y (on 20	) or moi	re days o	during th	ne 30			
											0.7	0.9	0.3	0.2	Decreased, 2013-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth R	isk Beha	vior ar	d Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QNDAY before th			ge of sti	udents v	vho curi	ently sn	oked ci	garettes	daily (d	on all 30	0 days d	luring th	ne 30 da	ıys			
											0.5	0.6	0.3	0.2	No linear change	Not available§	No change
QN21: I	Percent	age of st	udents	who eve	r used a	ın electro	onic vap	or prod	uct		:			-			
												16.2	18.8	17.1	No linear change	Not available	No change
QN22: I			udents	who cur	rently u	sed an e	lectroni	e vapor	product	(on at l	least 1 d	ay durii	ng the 3	0 days			
												8.3	4.6	6.1	No linear change	Not available	No change
QNFREY					o currei	ntly used	electro	nic vapo	or produ	icts freq	quently (	(on 20 c	or more	days			
												1.1	0.6	0.8	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Total Tobacco	Use			н	ealth R	ick Reh	avior ar	nd Perce	entages						Linear Change*	Quadratic Change*	Change from
					cuitii it	isk Den	uvioi ui		cnuges						Emeur Change	Quadratic Change	2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QNDAY the 30 da				udents	who cur	rently u	sed elect	ronic va	apor pro	ducts d	aily (on	all 30 d	ays dur	ing			
			,									0.9	0.5	0.7	No linear change	Not available <sup>§</sup>	No change
QN24: I dissolval vapor pr	ble toba	cco pro	ducts [s	uch as C	Copenha	gen, Gr	izzly, Sk	oal, or	Camel S					nic			
													1.0	2.3	No linear change	Not available	Increased
QN25: 1 during th					rently s	moked c	eigars (c	igars, ci	garillos	, or little	e cigars,	on at le	ast 1 da	ıy			
											3.6	3.7	1.6	2.0	Decreased, 2013-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Total Alcohol a	and Oth	er Druş	g Use	н	ealth R	isk Beha	avior ar	nd Perce	entages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN26:	Percent	age of s	tudents	who eve	er drank	alcohol	(other t	han a fe	w sips)	•	24.5	17.6	19.7	15.5	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN27:	Percent	age of s	tudents	who dra	nk alcol	nol for tl	ne first t	ime bef	ore age	11 year	s (other	than a f	ew sips	)			
											11.3	9.7	9.7	7.9	No linear change	Not available	No change
QN28:	Percent	age of s	tudents	who eve	er used n	narijuan	a				8.0	5.9	6.1	5.2	No linear change	Not available	No change
QN29:	Percenta	age of s	tudents	who trie	d mariji	ıana for	the first	t time be	efore ag	e 11 yea			2.1	•			
											2.3	4.1	2.1	2.8	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Total Alcohol a	nd Oth	er Druş	g Use	Н	ealth R	isk Beha	avior ar	ıd Perce	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN30: different	tly than	how a d	loctor to														
11) 61 0 6 0			, , ,										4.3	6.2	No linear change	Not available <sup>§</sup>	No change
QN31: 1	Percenta	age of st	tudents	who eve	er used c	cocaine (	any fori	n of coo	caine, in	cluding	powde	r, crack,	or freeb	oase)	,		
											4.3	3.5	5.1	1.9	Decreased, 2013-2018	Not available	Decreased
QN32: inhaled						nhalants	(sniffed	d glue, b	reathed	the con	itents of	f spray c	ans, or				
		-									9.3	6.8	5.8	3.9	Decreased, 2013-2018	Not available	No change
QN33: 1	Percenta	age of st	tudents	who eve	er took s	teroids v	vithout	a doctor	's presci	ription (	pills or	shots)					
											2.7	2.1	1.9	1.4	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Sexual B	ehavior	S		Н	ealth Ri	isk Beha	avior ar	nd Perco	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN34:	Percenta	age of st	udents v	who eve	r had se	xual int	ercourse	2				5.4	5.3	4.5	No linear change	Not available <sup>§</sup>	No change
QN35:	Percenta	age of st	tudents v	who had	l sexual	intercou	irse for t	the first	time be	fore age	e 11 yea	rs 2.8	2.0	1.4	Decreased, 2014-2018	Not available	No change
QN36:	Percenta	age of st	tudents v	who eve	r had se	xual int	ercourse	with th	iree or n	nore per	rsons	2.0	1.8	1.0	Decreased, 2014-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Weight M	<b>Ianage</b> r	nent an	d Dieta	-		isk Beh	avior ar	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN38:	Percenta	age of s	tudents	who des	cribed t	hemselv	es as sli	ghtly or	r very o	verweig	ght 23.7	23.2	22.3	22.9	No linear change	Not available <sup>§</sup>	No change
QN39:	Percenta	age of si	tudents	who we	re trying	to lose	weight			,	43.2	41.6	40.2	39.2	No linear change	Not available	No change
QN40:	Percenta	age of st	tudents	who did	not eat	breakfa	st (durin	ig the 7	days be	fore the	survey	)	•				
											11.3	7.8	10.7	10.4	No linear change	Not available	No change
QNBK7	DAY:	Percenta	age of st	tudents	who ate	breakfa	st on all	7 days	(during	the 7 da	ays befo	ore the s	urvey)	-	,		
											47.2	55.8	43.8	47.4	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

				Н	ealth Ri	isk Beha	avior an	d Perce	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-201
1991 1	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
)N41: Pe																	
N41: Pe ind of ph ays befor	ysical	activity															
ind of ph	ysical	activity								hard sor					No linear change	Not available <sup>§</sup>	No chang
ind of ph	ysical	activity								hard sor	me of th	ne time	luring tl	ne 7	No linear change	Not available <sup>§</sup>	No chang
ind of ph	aysical re the s  AY: Pany kin	activity urvey) ercenta	that inc	udents w	their hea	art rate a	and mad	e them l	oreathe st 60 min	hard sor	54.4	53.5 al activi	50.7 ty on at	53.5 least	No linear change	Not available <sup>§</sup>	No chanş

31.6 30.6 29.2 30.6

No linear change

Not available

days before the survey)

No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Total Physical A	Activity			Н	ealth R	isk Beha	avior an	ıd Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN42: 1	Percenta	age of st	tudents	who wa	tched te	levision	3 or mo	re hours	s per da	y (on an	averag	e schoo	l day)				
											36.0	32.7	24.8	24.7	Decreased, 2013-2018	Not available§	No change
QN43: 1 (countin smartphe average	g time s one, cor	pent on nputer,	things s	such as j	playing	games,	watching	g videos	, texting	g, or usi	ng soci	al media	on the	ir	Increased, 2013-2018	Not available	No change
QN44: I week wh					ended pl	nysical e	ducation	n (PE) c	lasses o	n 1 or n	nore day	ys (in ar	averag	ge			
											90.1	96.8	90.1	93.2	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth Ri	isk Beh	avior ar	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
	PE: Pe				o attend	led phys	sical edu	ication (	(PE) clas	sses on a	all 5 day	/s (in aı	averag	e			
											5.7	6.1	5.5	8.5	No linear change	Not available§	Increased
	Percenta								(countin	ng any te	eams rui	1 by the	ir schoo	l or 61.6	No linear change	Not available	No change
commu		ıps, duri	ng the p	oast 12 n	nonths l	pefore th	e surve	y)				65.9	64.8	61.6	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Total Other																	
				H	ealth Ri	isk Beha	avior an	d Perce	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	5 2018	_		
QN47: 1	Percenta	age of st	tudents v	who had	l ever be	en told	by a doc	ctor or n	urse tha	it they l	nad asth	ma					
											23.4	22.4	21.3	22.0	No linear change	Not available <sup>§</sup>	No change
QN48: 1	Percenta	age of st	udents v	who got	8 or mo	ore hours	s of slee	p (on an	averag	e schoo	ol night)				+		
											54.6	59.3	55.4	57.8	No linear change	Not available	No change
QN49: 1 before the			tudents	who des	cribed tl	heir grad	des in sc	hool as	mostly	A's or I	3's (dur	ing the	12 mon	ths			
octore ti	10 541 10	<i>J</i> /										84.2	85.2	83.0	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

### **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

			Н	ealth Ri	isk Beha	avior ar	nd Perco	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
N52: Percer	togo of a	tudanta t	vho hov		iddan in		uirran hr		aa ruba r	rios torit	ina wh	ila thar				

25.1 20.1 23.6 23.7

stopped doing some usual activities, ever during the 12 months before the survey)

0.7 Decreased, 2013-2018 Not available No change 3.6 2.1 2.2

Not available

No linear change

Total

No change

QN55: Percentage of students who smoked a whole cigarette before age 11 years (for the first time)

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

### Maryland Middle School Survey **Anne Arundel County Trend Analysis Report**

Total Site-Added **Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN59: Percentage of students who usually use a kind of flavoring other than tobacco flavor with an electronic vapor product (among students who have ever used an electronic vapor product) 90.0 94.3 No linear change Not available§ No change QN62: Percentage of students who think they definitely or probably will smoke a cigarette, cigar, cigarillo, or little cigar in the next year 10.4 Decreased, 2016-2018 Not available Decreased QN63: Percentage of students who used flavored tobacco products (flavored cigars, cigarillos, or little cigars, flavored smokeless tobacco products, or both, not counting menthol cigarettes, during the 30 days before the survey) 2.3 3.1 2.2 1.0 Decreased, 2013-2018 Not available No change QN64: Percentage of students who tried or used tobacco products for the first time (during the 12 months before the survey) 3.9 4.2 2.1 No linear change Not available No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth Ri	sk Beha	vior an	d Perce	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN66:	Percent	age of s	tudents	who live	with so	meone	who nov	v smoke	es cigare	ettes or	cigars	•	:				
											40.7	38.2	36.9	30.9	Decreased, 2013-2018	Not available <sup>§</sup>	No change
				who report					e their l	home is	that sm	oking i	s not all	owed			
anywhe	re inside	their h	ome (no	t countii	ng decks	s, garage	es, or po	rches)					81.6	82.2	No linear change	Not available	No change
QN68:	re inside	e their h	ome (no	who wer	ng decks	s, garage	es, or po	rches)					81.6	82.2 day		Not available	
QN68: QN69:	Percent:	age of s	tudents tudents	who wer	re in the	s, garage	om with	n someo	ne who	was sm	noking (	on at le	81.6 ast one o	82.2 day	No linear change  No linear change		No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Total Cita Addad

				Н	ealth Ri	sk Beha	vior ar	d Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN70: survey)	Percenta	age of st	udents v	vho curi	ently us	sed mari	juana (d	one or n	nore tim	es durin	g the 30	) days b	efore th	e			
											7.8	5.0	5.2	5.2	No linear change	Not available <sup>§</sup>	No change
	Percenta before t			vho wer	e offere	d, sold,	or give	an ille	gal drug	on scho	ool prop	perty (di	iring the	e 12			,
											6.8	5.2	4.4	4.3	No linear change	Not available	No change
	Percenta he 12 m					st (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or oth	er denta	ıl work,				
													74.0	72.9	No linear change	Not available	No change
		C . 4	udente v	who wor			1	about t	ha dana	are of to	hacco i	ısə (dur	ing the	last			
N73: chool y		ige or st	udents	viio wei	e taugni	in their	ciasses	about t	ne dang	ers or to	bacco	use (dui	ing the	ust			

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth Ri	sk Beha	vior an	d Perce	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
	Percenta r studen			who par	ticipate	in extrac	curricula	ar activi	ties at so	chool (s	uch as	sports, l	and, dr	ama,			
											61.9	64.5	60.8	60.8	No linear change	Not available§	No change
QN77:	Percenta	age of st	udents	who say	definite	ly yes o	r probal	oly yes t	hat you	ng peop	le who	smoke	have m	ore			
											25.7	25.6	24.7	29.8	No linear change	Not available	No change
QN78: or fit in		age of st	udents	who say	definite	ely yes o	r probal	oly yes t	hat smo	king ma	akes yo	ung peo	ple loo	c cool			
											16.8	15.7	15.0	16.2	No linear change	Not available	No change
							lr. diaan	nrove	of some	ne their	r age ha	ving or	e or two				
	Percenta of an alco				newnat dag every dag		gry ursap	prove c	n some	one then	uge m	.,,,,,	01 011				

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Total Site-Add	ed																
				Н	ealth R	isk Beh	avior aı	nd Perc	entages	i					Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
QN80: them to														g for			
		,	,	1	`		,	,, ,	,		87.6	87.0	88.1	90.6	No linear change	Not available <sup>§</sup>	No change
QN81:													(physic	ally or			
	, , , , , , , , , , , , , , , , , , ,	,					(111)		1,	· · · · · ·	69.2	70.8	76.9	72.6	No linear change	Not available	No change
QN82:														ally			
	The state of the s	<i>J = J = T = T = T = T = T = T = T = T = </i>	-,	11.001				(2221, 11)	, 01 1	1401)	76.0	76.2	79.3	76.4	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth Ri	sk Beha	vior an	d Perce	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991 199	93 1	995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN83: Perce o them	entage	of stu	idents v	vho hav	e an adı	ılt outsio	le of sch	nool the	y can ta	lk to ab	out thin	gs that	are imp	ortant			
											85.0	87.9	87.1	87.4	No linear change	Not available <sup>§</sup>	No change
2N84: Perce parents if the								king hel	p from	one or r	more ad	ults bes	sides the	ir 81.6	No linear change	Not available	No change
	entage					teacher (	or other	adult in	their sc	hool ab	out a pe	ersonal	problem	they			
	he 12	montr	is octor		nvey)												
QN85: Perce aad (during th	he 12	montr	is octor		ii vey)						32.4	32.0	32.6	30.8	No linear change	Not available	No change
	entage	of stu	·	,		ree or ag	gree that	their te	achers r	eally ca					No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Male **Injury and Violence Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN6: Percentage of students who rarely or never wore a bicycle helmet (among students who had ridden a bicycle) 71.3 64.0 62.4 57.0 No linear change Not available§ No change QN7: Percentage of students who rarely or never wore a helmet when rollerblading or skateboarding (among students who used rollerblades or rode a skateboard) 71.6 67.6 70.3 55.9 Decreased, 2013-2018 Not available No change QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car) No change 6.8 5.3 5.2 4.5 No linear change Not available QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car) 19.7 17.4 20.2 14.1 No linear change Not available Decreased

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\</sup>dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Male

njury an	IU V 101	ence		Н	ealth R	isk Beh	avior ar	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
QN10:	Percen	age of	students	who eve	er carried	d a wear	oon (suc	h as a g	un, knif	e, or clu	ub) 43.5	39.9	36.8	28.0	Decreased, 2013-2018	Not available <sup>§</sup>	Decreased
QN11:	Percen	age of	students	who we	re ever i	in a phys	sical figl	ht	,		62.7	54.7	59.5	54.6	No linear change	Not available	No change
QN14:	Percen	age of	students	who eve	er seriou	sly thou	ght abou	ut killing	g thems	elves	13.2	12.4	14.3	14.4	No linear change	Not available	No change
QN15:	Percen	age of	students	who eve	er made	a plan a	bout hov	w they v	would ki	ill them	selves		8.2	8.0	No linear change	Not available	No change
QN16:	Percen	age of	students	who eve	er tried to	o kill th	emselve	S					5.0	5.2	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Male **Tobacco Use Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs) 6.0 5.1 No linear change Not available§ No change QN18: Percentage of students who tried cigarette smoking for the first time before age 11 years (even one or two puffs) 3.6 1.9 No linear change Not available Decreased QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) Decreased, 2013-2018 No change 3.7 2.6 1.6 0.9 Not available

0.9

1.1

0.5

0.2

No linear change

Not available

QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30

days before the survey)

No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\</sup>dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Male

				Н	ealth Ri	sk Beha	avior an	d Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
QNDAY			ge of st	udents v	ho curr	ently sn	noked ci	garettes	daily (	on all 30	) days d	uring th	e 30 da	ys			
		•									0.6	0.7	0.5	0.2	No linear change	Not available§	No change
QN21: 1	Percent	age of s	udents	who eve	r used a	n electro	onic vap	or prod	uct				•		,		
												16.0	18.7	16.7	No linear change	Not available	No change
QN22: 1			udents	who cur	rently u	sed an e	lectronic	vapor	product	(on at l	east 1 d	ay durir	ng the 3	0 days			
												8.9	5.1	4.7	Decreased, 2014-2018	Not available	No change
QNFRE					o currer	itly used	l electro	nic vap	or produ	icts freq	uently (	(on 20 o	r more	days			-,
												1.5	0.8	0.4	Decreased, 2014-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Male Tobacco \	Use			TY	oolth D	alr Dak		d Dors	onto acc						Lincon Charge*	Ovednotic Charge*	Changa fuare
				н	ealth R	isk Ben	avior an	a Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QNDAY the 30 da				udents	who cur	rently us	sed elect	ronic va	apor pro	ducts d	aily (on	all 30 d	ays duri	ing			
	•		• 7									1.3	0.7	0.3	Decreased, 2014-2018	Not available <sup>§</sup>	No change
QN24: I dissolval vapor pr	ble toba	cco pro	ducts [si	uch as C	Copenha	gen, Gri	zzly, Sk	oal, or						nic			
													0.9	2.6	Increased, 2016-2018	Not available	Increased
QN25: I					rently s	moked c	igars (ci	gars, ci	garillos.	, or little	e cigars,	on at le	ast 1 da	У			
											4.3	3.9	1.7	1.9	Decreased, 2013-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

### **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Male **Alcohol and Other Drug Use** Linear Change\* **Health Risk Behavior and Percentages** Quadratic Change\* Change from 2016-2018 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN26: Percentage of students who ever drank alcohol (other than a few sips) 25.7 18.3 20.0 13.8 Decreased, 2013-2018 Not available§ No change QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips) 12.6 11.2 10.7 8.2 No linear change Not available No change QN28: Percentage of students who ever used marijuana Decreased, 2013-2018 Not available No change 11.0 7.4 6.5 QN29: Percentage of students who tried marijuana for the first time before age 11 years 3.7 5.3 2.5 3.2 No linear change Not available No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

lcohol a	nd Oth	er Drug	g Use	Н	ealth R	isk Beha	vior an	nd Perce	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
	tly than	how a d	loctor to			rescripti t (counti											
,	, u.		, , , ,										4.0	6.5	No linear change	Not available§	No change
QN31:	Percenta	age of st	tudents	who eve	r used c	cocaine (	any forr	n of coc	caine, in	cluding	powder	r, crack,	or freel	oase)			
											5.2	4.5	4.2	1.8	Decreased, 2013-2018	Not available	No change
				who eve		nhalants	(sniffed	l glue, b	reathed	the con	itents of	spray c	ans, or				
		•									8.6	6.4	5.4	4.6	Decreased, 2013-2018	Not available	No change
QN33:	Percenta	age of st	tudents	who eve	r took s	teroids v	vithout a	a doctor	's presc	ription (	pills or	shots)					

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Male

sexuai Be	Health Risk Behavior and Percentages  1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2013 2014 2014 2013 2014 2013 2014 2014 2014 2014 2014 2014 2014 2014													Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 <sup>†</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN34:	Percenta	age of st	tudents v	who eve	r had se	xual into	ercourse	;				7.9	7.9	6.0	No linear change	Not available <sup>§</sup>	No change
QN35:	Percenta	age of st	tudents	who had	l sexual	intercou	irse for t	he first	time be	fore age	e 11 yea	4.5	2.7	2.1	Decreased, 2014-2018	Not available	No change
QN36:	Percenta	age of st	tudents	who eve	r had se	xual into	ercourse	with th	ree or n	nore per	rsons	3.5	2.9	1.5	Decreased, 2014-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

	Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN38:	Percenta	nge of st	tudents v	who des	cribed t	hemselv	ves as sli	ghtly or	very ov	verweig	ht 20.5	21.8	19.4	22.0	No linear change	Not available <sup>§</sup>	No change
QN39:	Percenta	ige of st	tudents	who wei	re trying	g to lose	weight		,		33.0	33.7	32.8	34.1	No linear change	Not available	No change
QN40:	Percenta	ige of st	tudents v	who did	not eat	breakfa	st (durin	g the 7	days be	fore the	survey	)	•	:			
											10.6	7.3	8.5	9.5	No linear change	Not available	No change
QNBK7	DAY: I	Percenta	age of st	udents v	who ate	breakfa	st on all	7 days	(during	the 7 da	ıys befo	re the su	ırvey)		<del>.</del>		
											53.3	62.8	51.0	51.7	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Health Risk Behavior and Percentages  Linear Change*  Quadratic Change*  QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)  QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)  11.1 7.8 9.4 12.7 No linear change Not available		Change from															
														_		2016-2018 <sup>†</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
kind of p	physical	activity															
·											60.8	60.7	61.2	59.5	No linear change	Not available <sup>§</sup>	No change
1 day (ir	n any ki	nd of ph	ysical a	ctivity t													
											11.1	7.8	9.4	12.7	No linear change	Not available	No change
QNPA7 kind of p	physical	activity															,
											39.4	38.9	37.4	37.2	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Male Physical A	ale hysical Activity  Health Risk Behavior and Percentages													Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2016-2018	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN42: I	Percenta	age of s	tudents	who wa	tched te	levision	3 or mo	re hour	s per da	y (on ar	averag	e schoo	l day)				
											37.7	30.8	24.6	23.3	Decreased, 2013-2018	Not available <sup>§</sup>	No change
(counting	Health Risk Behavior and Percentages  Linear Change*  Quadratic Change*  1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018  QN42: Percentage of students who watched television 3 or more hours per day (on an average school day)																
											41.6	38.7	43.6	48.4	Increased, 2013-2018	Not available	No change
					ended pl	nysical e	ducation	n (PE) c	lasses o	n 1 or r	nore da	ys (in ar	averag	ge			
											91.7	96.6	92.3	92.4	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

### Maryland Middle School Survey **Anne Arundel County Trend Analysis Report**

**Physical Activity Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)

6.8

7.2

7.2

10.4

QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey)

> 68.6 70.0 64.9 No linear change

No linear change

Not available

Not available§

No change

No change

2016-2018 <sup>†</sup>

QN46: Percentage of students who had a concussion from playing a sport or being physically active (one or more times during the 12 months before the survey)

> 18.9 17.9 No linear change

Not available

No change

Male

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\</sup>dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Male Other **Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma 26.3 24.2 21.6 24.5 No linear change Not available§ No change

56.0 63.5

81.0

58.7 58.2

83.3 81.2

No linear change

No linear change

Not available

Not available

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months

before the survey)

No change

No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Aale Site-Add																	
	Health Risk Behavior and Percentages												Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN52: driving		age of s	tudents	who hav	ve ever i	idden in	a car d	riven by	someo	ne who	was tex	ting wh	ile they	were			
												46.4	61.0	42.7	No linear change	Not available <sup>§</sup>	Decreased
QN54: stopped											eks in a	row so	that the	y			
											17.4	14.4	19.1	18.9	No linear change	Not available	No change
QN55:	Percent	age of s	tudents	who sm	oked a v	whole ci	garette l	pefore a	ge 11 ye	ears (for	the firs	t time)					
											4.5	2.9	2.4	1.0	Decreased, 2013-2018	Not available	No change
QN62: little cig				who this	nk they	definitel	y or pro	bably w	vill smol	ke a ciga	arette, c	igar, cig	garillo, o	or			
													11.2	6.6	Decreased, 2016-2018	Not available	Decreased

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Site-Added **Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN63: Percentage of students who used flavored tobacco products (flavored cigars, cigarillos, or little cigars, flavored smokeless tobacco products, or both, not counting menthol cigarettes, during the 30 days before the survey) 2.3 3.3 1.5 0.8 Decreased, 2013-2018 Not available§ No change QN64: Percentage of students who tried or used tobacco products for the first time (during the 12 months before the survey) 3.4 3.3 Decreased, 2014-2018 Not available No change 1.7

39.9

39.5

31.1

29.9

Decreased, 2013-2018

QN67: Percentage of students who report the rule about smoking inside their home is that smoking is not allowed anywhere inside their home (not counting decks, garages, or porches)

82.2 83.6 No linear change Not available No change

Not available

QN66: Percentage of students who live with someone who now smokes cigarettes or cigars

Male

No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\</sup>dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Male Site-Addo	ed																
				Н	ealth R	isk Beh	avior ar	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN68: during the					re in the	same ro	oom wit	h somed	one who	was sm	oking (	on at lea	ast one o	day			
													13.9	14.6	No linear change	Not available <sup>§</sup>	No change
QN69: the 30 d				who cur	rently d	rank alc	ohol (at	least on	ne drink	of alcol	nol, on a	at least 1	day du	ıring			
											11.6	7.8	8.3	5.4	Decreased, 2013-2018	Not available	No change
QN70: survey)	Percenta	age of st	tudents	who cur	rently u	sed mar	ijuana (d	one or m	nore tim	es durin	ng the 30	0 days b	efore th	ie			
											10.6	4.7	5.1	5.1	Decreased, 2013-2018	Not available	No change
QN71: months				who we	re offere	ed, sold,	or give	n an ille	gal drug	on sch	ool prop	perty (di	uring the	e 12			
											7.9	5.5	5.2	3.7	Decreased, 2013-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Male Site-Added **Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN72: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey) 73.0 73.3 No linear change Not available§ No change QN73: Percentage of students who were taught in their classes about the dangers of tobacco use (during the last school year) 83.5 80.8 77.9 77.3 Decreased, 2013-2018 Not available No change QN74: Percentage of students who participate in extracurricular activities at school (such as sports, band, drama, clubs, or student government) 62.1 64.9 60.7 58.4 No linear change Not available No change QN77: Percentage of students who say definitely yes or probably yes that young people who smoke have more friends 26.1 25.7 23.2 26.8 No linear change Not available No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\</sup>dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Site-Added

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

QN78: Percentage of students who say definitely yes or probably yes that smoking makes young people look cool or fit in

19.1 17.6 14.9 16.1 No linear change Not available<sup>§</sup> No change

QN79: Percentage of students who somewhat or strongly disapprove of someone their age having one or two drinks of an alcoholic beverage nearly every day

78.8 81.3 No linear change Not available No change

QN80: Percentage of students who responded that their parents would feel it would be wrong or very wrong for them to drink beer, wine, or hard liquor (such as vodka, whiskey, or gin) at least once or twice a month

87.6 85.6 86.5 90.1 No linear change Not available No change

Male

Change from 2016-2018 †

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\</sup>dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

				Н	ealth Ri	isk Beh	avior ar	nd Perce	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
-	Percenta ways) i	_						_			_		(physic	ally or			
											64.9	69.5	74.0	71.0	Increased, 2013-2018	Not available <sup>§</sup>	No change
	Percentather way													ally			
											72.7	74.8	78.4	76.4	No linear change	Not available	No change
QN83: to them	Percent	age of s	tudents	who hav	e an adı	ult outsi	de of sc	hool the	y can ta	lk to ab					No linear change	Not available	No change
	Percent	age of s	tudents	who hav	re an adı	ult outsi	de of sci	hool the	y can ta						No linear change	Not available  Not available	No change
to them  QN84:	Percent:	age of s	tudents	who wo	uld feel	comfort	able see				out thin	gs that	are impo	ortant 87.3			

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Mala

				Н	ealth Ri	isk Beha	avior an	nd Perco	entages	<b>3</b>					Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
-	Percenta	_				teacher	or other	adult in	their so	chool ab	out a pe	ersonal	problen	n they			
_		_				teacher	or other	adult in	their so	chool ab	•	ersonal 28.7	problen 31.4	30.2	No linear change	Not available <sup>§</sup>	No change
ad (dur N86:	ing the	12 mont	hs before	re the su	irvey)					chool ab	28.4	28.7	31.4	30.2	No linear change	Not available <sup>§</sup>	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

### **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

**Female Injury and Violence Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN6: Percentage of students who rarely or never wore a bicycle helmet (among students who had ridden a bicycle) 64.0 57.8 56.3 52.3 No linear change Not available§ No change QN7: Percentage of students who rarely or never wore a helmet when rollerblading or skateboarding (among students who used rollerblades or rode a skateboard) 74.2 68.2 71.8 65.3 No linear change Not available No change QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car) No linear change No change 5.2 1.9 3.2 3.8 Not available QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car) 21.4 17.8 23.3 19.3 No linear change Not available No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\</sup>dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Female

Injury and Violence Health Risk Behavior and Percent	tages					Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991 1993 1995 1997 1999 2001 2003 2005 2007 2	2009 2011	2013	2014	2016	2018			
QN10: Percentage of students who ever carried a weapon (such as a gun,	, knife, or clu	ib) 15.9	14.0	15.8	14.5	No linear change	Not available <sup>§</sup>	No change
QN11: Percentage of students who were ever in a physical fight		37.6	29.7	31.6	27.5	No linear change	Not available	No change
QN14: Percentage of students who ever seriously thought about killing the	hemselves	26.1	19.2	22.3	24.1	No linear change	Not available	No change
QN15: Percentage of students who ever made a plan about how they wou	uld kill thems	selves		17.5	13.3	No linear change	Not available	No change
QN16: Percentage of students who ever tried to kill themselves		,		8.7	7.4	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Female Fobacco	Use																
				Н	ealth R	isk Beh	avior aı	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN17:	Percenta	age of st	tudents	who eve	er tried c	igarette	smokin	g (even	one or t	wo pufi	fs)		5.6	4.7	No linear change	Not available <sup>§</sup>	No change
QN18: puffs)	Percenta	age of st	udents	who trie	d cigare	ette smol	king for	the first	t time be	efore ag	e 11 ye	ars (eve	n one or	two 1.4	No linear change	Not available	No change
QN19: survey)	Percenta	age of st	udents	who cur	rently si	moked c	igarette	s (on at	least 1 c	lay duri	ng the	30 days	before t	he			
											3.4	2.9	0.4	0.8	Decreased, 2013-2018	Not available	No change
QNFRO days be				ents who	o curren	tly smo	ked ciga	rettes fi	equentl	y (on 20	) or mo	re days	during t	he 30			
											0.6	0.5	0.1	0.2	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Female

				Н	ealth R	isk Beh	avior ar	d Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QNDAY before th			ge of st	udents v	vho curr	ently sn	noked ci	garettes	daily (	on all 30	) days d	uring th	e 30 da	ys			
		•									0.5	0.3	0.1	0.2	No linear change	Not available <sup>§</sup>	No change
QN21: I	Percent	age of s	tudents	who eve	r used a	ın electr	onic vap	or prod	uct			<del>.</del>					
												16.2	19.1	17.3	No linear change	Not available	No change
N22: I			tudents	who cur	rently u	sed an e	lectroni	e vapor	product	(on at l	east 1 da	ay durir	ng the 30	0 days			
												7.7	4.2	7.4	No linear change	Not available	No change
			e of stud		o currei	ntly used	l electro	nic vapo	or produ	icts freq	uently (	on 20 o	r more	days			,
		•		•								0.6	0.3	1.2	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Fobacco 1	Use			Н	ealth R	isk Beha	avior an	d Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
QNDAY the 30 da				udents v	who cur	rently us	sed elect	ronic va	apor pro	ducts d	aily (on	all 30 d	ays dur	ing			
												0.5	0.3	1.1	No linear change	Not available <sup>§</sup>	No change
QN24: I dissolval vapor pr	ble toba	cco pro	ducts [si	uch as C	Copenha	gen, Gri	zzly, Sk	oal, or						nic			
													1.1	1.9	No linear change	Not available	No change
QN25: I					rently si	noked c	igars (ci	gars, ci	garillos,	, or little	e cigars,	on at le	ast 1 da	ıy			·,
											2.8	3.0	1.6	1.7	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Female Alcohol a	and Oth	er Drug	g Use	Н	ealth Ri	isk Beha	avior ar	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN26:	Percenta	age of st	udents	who eve	r drank	alcohol	(other t	han a fe	w sips)		23.4	17.1	18.9	16.9	No linear change	Not available <sup>§</sup>	No change
QN27:	Percenta	age of st	udents	who dra	nk alcol	nol for tl	ne first t	ime bef	ore age	11 year	s (other	than a f	ew sips	)			
											9.9	8.1	8.0	7.7	No linear change	Not available	No change
QN28:	Percenta	age of st	udents	who eve	r used n	narijuan	a						-	-			
											5.0	4.5	5.5	5.4	No linear change	Not available	No change
ON29:	Percenta	age of st	udents	who trie	d mariju	iana for	the first	t time be	efore ag	e 11 yea	ars						•

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Female Alcohol a	nd Oth	er Druş	g Use	н	ealth R	isk Beh:	avior an	ıd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		2016-2018 <sup>†</sup>
QN30: different hydroco	tly than	how a c	loctor to														
													4.3	5.8	No linear change	Not available <sup>§</sup>	No change
QN31:	Percenta	age of s	tudents	who eve	er used c	cocaine (	any fori	n of coo	caine, in	cluding	powde	r, crack,	or freel	oase)			-
											3.2	2.4	5.8	1.7	No linear change	Not available	Decreased
QN32: inhaled						nhalants	(sniffed	l glue, b	reathed	the con	itents of	spray c	ans, or				
											10.0	6.9	6.2	3.1	Decreased, 2013-2018	Not available	Decreased
QN33:	Percenta	age of s	tudents	who eve	er took s	teroids v	without a	a doctor	's presci	ription (	pills or	shots)					
											2.6	1.4	1.4	1.0	Decreased, 2013-2018	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Female

Sexual Bo	ehaviors	S		Н	ealth Ri	isk Beha	avior an	nd Perce	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN34:	Percenta	age of st	tudents v	who eve	r had se	exual int	ercourse	<b>;</b>		•		3.0	2.7	2.9	No linear change	Not available <sup>§</sup>	No change
QN35:	Percenta	age of st	udents	who had	sexual	intercou	irse for t	he first	time be	fore age	e 11 yea	rs 1.3	1.4	0.6	No linear change	Not available	No change
QN36:	Percenta	age of st	udents v	who eve	r had se	exual int	ercourse	with th	ree or n	nore per	rsons	0.6	0.7	0.5	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

				Н	ealth Ri	sk Beha	avior an	nd Perco	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<del>_</del> ;		
QN38:	Percenta	nge of st	udents v	who des	cribed th	hemselv	es as sli	ghtly or	very ov	verweig	tht 27.0	24.6	25.1	23.8	No linear change	Not available <sup>§</sup>	No change
QN39:	Percenta	nge of st	udents v	who wei	e trying	to lose	weight		,		53.4	49.2	47.5	44.1	Decreased, 2013-2018	Not available	No change
QN40:	Percenta	age of st	udents v	who did	not eat	breakfas	st (durin	g the 7	days be	fore the	survey	)					
											11.9	8.3	12.8	11.2	No linear change	Not available	No change
QNBK7	DAY: 1	Percenta	ige of st	udents v	who ate	breakfas	st on all	7 days (	(during	the 7 da	ays befo	ore the si	ırvey)				
											41.1	48.8	36.4	43.1	No linear change	Not available	Increased

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Female Physical	Activity	,		Н	ealth Ri	isk Beha	avior ar	nd Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<del>.</del>		
QN41: kind of j	physical	activity	that in														
,		,									48.3	46.6	40.1	47.8	No linear change	Not available§	Increased
QNPA0 1 day (in during t	n any kii	nd of ph	ysical a	ctivity t													-
											12.0	12.2	17.4	12.2	No linear change	Not available	Decreased
QNPA7 kind of days bet	physical	activity	that in														
											23.9	22.6	20.8	24.2	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Female Physical	Activity	7		Н	ealth R	isk Beh	avior aı	nd Perc	entages	i					Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN42:	Percenta	age of s	tudents	who wa	tched te	levision	3 or mo	ore hour	s per da	y (on ar	n averag	ge schoo	l day)				
											34.2	34.5	25.3	26.3	Decreased, 2013-2018	Not available§	No change
QN43: (countin smartph average	g time s one, cor	spent on nputer,	things	such as	playing	games,	watchin	g videos	s, textin	g, or usi	ing soci is not so	al medi hool w	a on the	ir			
											37.5	36.7	45.5	45.6	Increased, 2013-2018	Not available	No change
QN44: week wl					ended pl	hysical e	educatio	n (PE) c	classes o	on 1 or r	nore da	ys (in a	n averag	ge			
											88.5	97.0	87.8	94.1	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Female Physical Activity

				Н	ealth Ri	isk Beha	avior ar	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
	PE: Pe				no attend	ded phys	ical edu	cation (	(PE) cla	sses on	all 5 day	ys (in a	n averag	ge			
											4.5	5.1	3.9	6.5	No linear change	Not available§	Increased
	Percenta								(countin	ng any to	eams ru	n by the	eir schoo	ol or			
												63.3	59.8	58.6	No linear change	Not available	No change
	Percenta ring the					ussion fi	om play	ying a sp	port or b	peing ph	ysically	active	(one or	more	,		

53

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>\*</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

emale Other				Н	ealth Ri	isk Beha	avior ar	nd Perce	entages	ŀ					Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
03745						. 11					1 .1	•	·	•			
QN47: F	'ercenta	ige of st	udents v	who had	l ever be	een told	by a doo	ctor or n	nurse tha	at they h	ad asth	ıma					
QN47: F	'ercenta	ige of st	udents v	who had	l ever be	en told	by a doo	ctor or n	iurse tha	at they h	20.5	20.6	20.4	19.5	No linear change	Not available <sup>§</sup>	No change
QN47: F											20.5	20.6	20.4	19.5	No linear change	Not available <sup>§</sup>	No change

87.2 87.2 84.8

No linear change

No change

Not available

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth Ri	sk Beha	avior ar	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN52: Podriving th		ge of st	udents v	vho hav	e ever ri	idden in	a car dı	riven by	someo	ne who	was text	ing wh	ile they	were			
diiving tii	ic car																
												56.6	71.6	52.8	No linear change	Not available <sup>§</sup>	Decreased
QN54: P											eks in a				No linear change	Not available <sup>§</sup>	Decreased
QN54: Postopped d												row so	that the	y			
															No linear change  No linear change	Not available <sup>§</sup> Not available	
	loing so	ome usu	al activi	ties, eve	er during	g the 12	months	before	the surv	rey)	32.9	row so 25.7	that the	y			No change

9.2

6.3

No linear change

No change

Not available

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

				Н	ealth R	isk Beh	avior ar	d Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
						red tobac not coun								,			
											2.1	2.7	2.4	1.2	No linear change	Not available <sup>§</sup>	No change
QN64:		age of st	tudents	who trie	d or use	ed tobaco	co produ	icts for	the first	time (dı	uring the	e 12 mo	onths be	fore			
												4.5	4.6	2.3	No linear change	Not available	No change
QN66: 1	Percenta	age of st	tudents	who live	e with so	omeone	who no	v smok	es cigare	ettes or o	cigars	;		:	<del>,</del>		
											41.4	36.7	42.6	31.9	No linear change	Not available	Decreased
						rule abou			le their l	home is	that sm	oking is	s not alle	owed			
													81.3	80.8	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Site-Added

Health Risk Behavior and Percentages

Linear Change\*

1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018

QN68: Percentage of students who were in the same room with someone who was smoking (on at least one day during the 7 days before the survey)

21.7 21.6 No linear change Not available No change

Quadratic Change\*

QN69: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)

10.9 7.2 9.1 8.8 No linear change

Not available No change

Change from 2016-2018 †

QN70: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)

4.8 5.0 4.8 4.8 No linear change

Not available No change

QN71: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)

5.6 4.8 3.6 4.8 No linear change No

Not available No change

**Female** 

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Female Site-Addo	ed																
				Н	ealth R	isk Beh	avior aı	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN72: during the						ist (for a	check-	up, exan	n, teeth	cleaning	g, or oth	ner dent	al work	,			
													75.0	72.7	No linear change	Not available <sup>§</sup>	No change
QN73: school y		age of st	tudents	who we	re taugh	t in thei	r classes	s about t	he dang	ers of to	obacco	use (du	ring the	last			
											90.1	83.5	72.9	77.0	Decreased, 2013-2018	Not available	No change
QN74: clubs, or				who par	ticipate	in extra	curricul	ar activi	ties at s	chool (s	such as	sports, l	oand, dr	ama,			
											62.0	63.9	61.1	62.9	No linear change	Not available	No change
QN77: friends	Percenta	age of st	tudents	who say	definite	ely yes o	or proba	bly yes	that you	ng peop	ole who	smoke	have me	ore	, , , , , , , , , , , , , , , , , , , ,		
											25.4	25.4	26.4	32.7	No linear change	Not available	No change

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<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

**Female** Site-Added **Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN78: Percentage of students who say definitely yes or probably yes that smoking makes young people look cool or fit in 14.6 13.3 14.5 16.1 No linear change Not available§ No change QN79: Percentage of students who somewhat or strongly disapprove of someone their age having one or two drinks of an alcoholic beverage nearly every day 79.3 81.4 No linear change Not available No change QN80: Percentage of students who responded that their parents would feel it would be wrong or very wrong for

87.7 88.3 89.9

91.1

No linear change

Not available

them to drink beer, wine, or hard liquor (such as vodka, whiskey, or gin) at least once or twice a month

No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Female Site-Add	ed																
				Н	ealth R	isk Beh	avior aı	nd Perc	entages	;					Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
QN81: in other													(physic	ally or			
											73.4	72.3	79.5	74.5	No linear change	Not available <sup>§</sup>	No change
QN82: and in o														ally	,		+
											79.3	77.8	80.2	76.6	No linear change	Not available	No change
QN83: to them	Percent	age of s	tudents	who hav	e an ad	ult outsi	de of sc	hool the	ey can ta	alk to ab	out thir	ngs that	are imp	ortant			
											85.1	86.7	85.0	87.3	No linear change	Not available	No change
QN84:								eking he	elp from	one or	more ac	lults bes	sides the	eir			
											81.4	80.6	80.6	83.0	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Female

				H	ealth Ri	isk Beha	avior an	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2015
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
_		_				teacher	or other	adult in	their so	chool ab	out a pe	rsonal	problen	n they			
_		_	tudents v			teacher	or other	adult in	their so		1		problen	they	No linear change	Not available <sup>§</sup>	No change
_		_				teacher	or other	adult in	their so		1	ersonal 35.1	•	J	No linear change	Not available <sup>§</sup>	No change
ad (duri	ing the	12 mon	ths before	re the su	irvey)	teacher		,	,		36.2	35.1	33.7	31.1	No linear change	Not available <sup>§</sup>	No chang

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

White* Injury a	nd Viol	ence		F	Iealth F	Risk Bel	navior a	and Perc	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN6: Policycle)		ge of stu	idents w	ho rarel	y or nev	ver wore	a bicyc	le helm	et (amoi	ng stude	ents who	had rid	den a				
											60.1	55.0	49.4	46.1	No linear change	Not available <sup>¶</sup>	No change
QN7: Postudents							a helm	et when	rollerbl	ading o	r skateb	oarding	(among	Ţ,			
											66.8	65.6	65.5	55.1	No linear change	Not available	No change
QN8: P	ercentag	ge of stu	idents w	ho rarel	y or nev	er wore	a seat b	elt (wh	en ridin	g in a ca	ar)			-			
											4.6	3.1	3.3	2.8	No linear change	Not available	No change
QN9: P	ercentag	ge of stu	idents w	ho ever	rode wi	th a driv	ver who	had bee	en drink	ing alco	hol (in	a car)					
											20.3	19.6	24.3	18.0	No linear change	Not available	Decrease

<sup>\*</sup>Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				I	Health I	Risk Bel	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
QN10: 1	Percent	age of s	tudents	who eve	er carrie	d a weap	oon (suc	h as a g	un, knif	e, or clu	ab) 32.7	30.8	28.1	24.1	Decreased, 2013-2018	Not available¶	No change
QN11: 1	Percent	age of s	tudents	who we	re ever	in a phys	sical figl	nt			41.2	37.2	37.3	33.6	No linear change	Not available	No change
QN14: 1	Percent	age of s	tudents	who eve	er seriou	ısly thou	ght abou	ıt killin	g thems	elves	18.1	14.1	15.0	17.3	No linear change	Not available	No change
QN15: 1	Percent	age of s	tudents	who eve	er made	a plan a	bout hov	w they v	vould ki	ll thems	selves		10.9	10.2	No linear change	Not available	No change
QN16: 1	Percent	age of s	tudents	who eve	er tried t	o kill th	emselve	s					5.2	5.1	No linear change	Not available	No change

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Tobacco				I	Health I	Risk Beł	navior a	nd Pero	centage	S					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN17:	Percent	age of s	tudents	who eve	er tried o	eigarette	smokin	g (even	one or t	wo puff	Es)		4.6	3.6	No linear change	Not available <sup>¶</sup>	No change
QN18: puffs)	Percent	age of s	tudents	who trie	ed cigare	ette smol	king for	the first	t time be	efore ag	e 11 yea	ars (eve	n one or	0.5	No linear change	Not available	No change
QN19: survey)	Percent	age of s	tudents	who cur	rently s	moked c	eigarette	s (on at	least 1 o	lay duri	ng the 3	30 days 2.9	before t	he 0.7	Decreased, 2013-2018	Not available	No change
QNFRC days bef				ents wh	o currer	ntly smo	ked ciga	rettes fr	equentl	y (on 20	0.5	ne days	during t	0.3	No linear change	Not available	No change

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Tobacco	Use			I	Health F	Risk Bel	navior a	nd Pero	centage	es					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QNDAY before th			ige of st	udents v	who curi	ently sn	noked ci	garettes	daily (	on all 30	0 days d	uring th	ie 30 da	ays			
											0.5	0.8	0.5	0.3	No linear change	Not available¶	No change
QN21: I	Percent	age of s	tudents	who eve	er used a	ın electro	onic vap	or prod	uct	:	:		•				,
												16.5	17.1	14.9	No linear change	Not available	No change
QN22: I before the			tudents	who cur	rently u	sed an e	lectroni	e vapor	product	(on at l	least 1 d	ay durii	ng the 3	0 days			
												8.0	3.5	5.4	No linear change	Not available	No change
QNFRE' during th					o currei	ntly used	l electro	nic vapo	or produ	icts frec	quently (	(on 20 c	r more	days			
												1.2	0.6	0.7	No linear change	Not available	No change

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

White* obacco Us	Jse			Н	Iealth R	tisk Beh	avior a	nd Perc	Linear Change <sup>†</sup>	Quadratic Change†	Change from 2016-2018 §						
1991 1	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
QNDAYE				udents v	who curi	rently us	sed elect	ronic va	apor pro	ducts d	aily (on	all 30 d	ays duri	ng	:		
he 30 days	s beroi	re the st	irvey)									1.0	0.4	0.5	No linear change	Not available <sup>¶</sup>	No chang
QN24: Per lissolvable	e tobac	cco prod	ducts [su	ich as C		gen, Gri	zzly, Sk	coal, or <b>(</b>						nic			
apor prod																	
apor prod													0.9	1.7	No linear change	Not available	No chang
QN25: Perluring the					rently sn	noked c	igars (ci	gars, cią	garillos,	or little	e cigars,	on at le			No linear change	Not available	No chang

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

White* Alcohol	and Otl	her Dru	ıg Use														
	Health Risk Behavior and Percentages														Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN26:	Percenta	age of st	tudents	who eve	r drank	alcohol	(other t	han a fe	w sips)					:			
											23.1	16.5	18.6	13.5	No linear change	Not available <sup>¶</sup>	No chang
QN27:	Percenta	age of st	tudents	who dra	nk alcol	hol for t	he first t	ime bef	ore age	11 year	s (other	than a f	ew sips	)			
											9.5	8.5	8.7	5.4	No linear change	Not available	No chang
QN28:	Percenta	age of st	tudents	who eve	er used r	narijuan	a										
											7.4	5.7	4.6	3.6	Decreased, 2013-2018	Not available	No change
QN29:	Percenta	age of st	tudents	who trie	d mariji	uana for	the first	t time be	efore ag	e 11 yea		3.8	1.0	1.5	Decreesed 2012 2019	Not available	No chang
											1.6	3.8	1.9	1.5	Decreased, 2013-2018	Not available	No chang

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

White* Alcohol and Other Drug Use Health Risk Behavior and Percentages											Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §				
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<del>-</del>		
differen		how a d	loctor to	who eve											,		
iyuroco	done, ai	ild i eicc	icei)										3.7	5.2	No linear change	Not available <sup>¶</sup>	No chang
QN31:	Percenta	age of st	udents	who eve	r used c	ocaine (	any fori	m of co	caine, in	cluding	powde	r, crack,	or free	oase)			,
											3.2	3.4	4.4	1.2	No linear change	Not available	No chang
				who eve		nhalants	(sniffed	d glue, b	reathed	the con	itents of	spray c	ans, or				,
		•									7.7	5.7	4.4	3.5	Decreased, 2013-2018	Not available	No chang
QN33:	Percenta	age of st	udents	who eve	r took s	teroids v	vithout	a docto	's presc	ription (	pills or	shots)					
											2.4	1.7	1.3	0.9	No linear change	Not available	No chang

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				H	Iealth R	Risk Bel	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Linear Change <sup>†</sup> Quadratic Change <sup>†</sup>					
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_						
QN34:	Percenta	age of si	tudents	who eve	r had se	exual int	ercourse					4.0	4.0	3.7	No linear change	Not available¶	No change				
QN35:	Percenta	age of si	tudents	who had	l sexual	intercou	irse for t	the first	time be	fore age	e 11 year	rs 2.2	1.1	0.7	Decreased, 2014-2018	Not available	No change				
QN36:	Percenta	age of st	tudents	who eve	r had se	xual int	ercourse	with th	ree or n	nore per	rsons	•					,				

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

				H	Iealth R	kisk Beh	Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §								
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN38:	Percenta	ige of st	udents	who des	cribed t	hemselv	es as sli	ghtly or	r very ov	verweig	ght 24.6	21.7	18.5	22.2	No linear change	Not available¶	No change
QN39:	Percenta	nge of st	udents	who wer	re trying	to lose	weight				42.4	39.7	35.6	36.2	No linear change	Not available	No change
QN40:	Percenta	ige of st	udents	who did	not eat	breakfas	st (durin	g the 7	days be	fore the	survey	)	·	-	,		·
											9.2	7.9	9.5	9.0	No linear change	Not available	No change
QNBK7	DAY: I	Percenta	ige of st	udents v	who ate	breakfas	st on all	7 days	(during	the 7 da	ays befo	re the si	ırvey)				
											50.8	55.3	48.0	49.2	No linear change	Not available	No change

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

White\* **Physical Activity Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) 57.9 58.8 56.9 57.0 No linear change Not available ¶ No change QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) 9.2 6.5 8.3 9.5 No linear change Not available No change QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) 33.4 32.8 31.7 31.4 No linear change Not available No change

<sup>\*</sup>Non-Hispanic.

Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>{}^{\</sup>S}B$  ased on t-test analysis, p < 0.05.

Not enough years of data to calculate.

## Maryland Middle School Survey Anne Arundel County Trend Analysis Report

White\* **Physical Activity Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 ON42: Percentage of students who watched television 3 or more hours per day (on an average school day) 20.5 Decreased, 2013-2018 Not available ¶ No change 29.8 26.8 19.5 QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as playing games, watching videos, texting, or using social media on their smartphone, computer, Xbox, PlayStation, iPad, or other tablet, for something that was not school work, on an average school day) 35.0 36.7 41.7 45.4 Increased, 2013-2018 Not available No change QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school) No linear change Not available No change 90.4 97.9 91.6 93.6

<sup>\*</sup>Non-Hispanic.

 $<sup>^{\</sup>dagger}$ Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>{}^{\</sup>S}B$  ased on t-test analysis, p < 0.05.

Not enough years of data to calculate.

Physical	Activit	У		H	Iealth R	Risk Bel	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
QNDLY					o attend	ded phys	sical edu	cation (	(PE) cla	sses on	all 5 day	ys (in a	n averaş	ge			
week wh	ien uiey	were ii	1 school	)							5.6	6.0	5.6	6.7	No linear change	Not available <sup>¶</sup>	No chan
·					yed on a	at least o	one spor	ts team	(countin	ng any te					No linear change	Not available <sup>¶</sup>	No chan
QN45:	Percenta	age of st	tudents v	who pla					(countin	ng any te					No linear change	Not available <sup>¶</sup>	No chang
QN45: 1	Percenta	age of st	tudents v	who pla					(countin	ng any to					No linear change	Not available¶	No chan
QN45: 1	Percenta nity grou	age of st ups, duri	tudents v	who play past 12 r	nonths b	before th	ne surve	y)			eams ru	n by the	eir scho	ol or 67.9			

<sup>\*</sup>Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

				H	lealth R	Risk Bel	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN47:	Percenta	age of st	udents v	who had	ever be	en told	by a doo	ctor or n	nurse tha	it they h	ad asth	ma	•	•			
											21.0	19.7	18.0	17.6	No linear change	Not available <sup>¶</sup>	No change
QN48:	Percenta	age of st	udents v	who got	8 or mo	ore hour	s of slee	p (on ar	n averag	e schoo	l night)	•					
											57.5	59.8	59.6	58.0	No linear change	Not available	No change
QN49:	Percenta he surve		udents	who des	cribed t	heir grad	des in sc	chool as	mostly	A's or E	B's (duri	ng the	2 mont	hs			
hefore t	ne sui ve	<i>y)</i>															

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

White\* Site-Added **Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN52: Percentage of students who have ever ridden in a car driven by someone who was texting while they were driving the car No linear change Not available ¶ Decreased 54.6 69.6 53.6 QN54: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey) No linear change Not available No change 23.2 17.4 19.4 20.4 QN55: Percentage of students who smoked a whole cigarette before age 11 years (for the first time) 2.2 1.8 1.8 0.4 No linear change Not available No change QN62: Percentage of students who think they definitely or probably will smoke a cigarette, cigar, cigarillo, or little cigar in the next year 9.9 6.1 No linear change Not available No change

<sup>\*</sup>Non-Hispanic.

Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>§</sup>Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

				F	Health I	Risk Beh	navior a	nd Per	centage	es					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN63: flavored survey)						ed tobac not coun											
,											1.8	2.7	2.4	0.6	No linear change	Not available¶	No change
		:-															
		age of st	udents	who trie	ed or use	ed tobaco	co produ	icts for	the first	time (d	uring th	ne 12 m	onths be	efore			
		age of st	udents	who trie	ed or use	ed tobacc	co produ	icts for	the first	time (d	uring th	ne 12 m	onths be	efore 2.2	No linear change	Not available	No change
the surv	ey)	,	·	·	,	ed tobaco	,								No linear change	Not available	No change
the surv	ey)	,	·	·	,		,								No linear change  No linear change	Not available  Not available	No change
QN66:	Percenta	age of si	udents s	who live	e with so		who no	w smok	es cigar	ettes or	cigars 41.7	39.8	4.9 35.7	31.9			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

White\*

				H	lealth F	Risk Beh	avior a	nd Per	centage	es					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
	Percenta ne 7 day				e in the	same ro	om wit	h some	one who	was sm	oking (	on at le	ast one	day			
													17.9	20.5	No linear change	Not available¶	No change
	Percenta		tudents	who cur	rently d	rank ala	ahal (at	1	1 . 1						·		
ne 30 a	ays befo	re the s			ichtiy d	iank aic	onoi (at	least or	ie drink	of alcol	nol, on	at least	I day di	uring			
ie su a	ays befo	re the s			ientry d	rank aic	onor (at	least or	ne drink	of alcol	10.0	7.8	l day di	uring 6.6	No linear change	Not available	No change
			urvey)			sed mari					10.0	7.8	8.3	6.6	No linear change	Not available	No change
QN70:			urvey)								10.0	7.8	8.3	6.6	No linear change	Not available  Not available	No change
QN70: survey)	Percenta	age of st	tudents v	who cur	rently u		ijuana (d	one or n	nore tim	nes durir	10.0 ag the 3	7.8 0 days l 4.5	8.3 perfore the 4.0	6.6 ne 4.8			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

White\*

				H	ealth R	isk Beh	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
QN72: Poduring the						st (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or otl	ner dent	al work	,			
													77.1	77.8	No linear change	Not available <sup>¶</sup>	No change
		ge of st	udents	who wer	e taught	in their	r classes	about t	he dang	ers of to	obacco	use (du	ring the	last			
		ge of st	udents v	who wer	e taught	in their	r classes	about t	he dang		obacco 89.4	use (du	ring the	last 81.5	Decreased, 2013-2018	Not available	No chang
QN73: Peschool ye	ar) ercenta	ge of st	udents								89.4	84.5	78.3	81.5	Decreased, 2013-2018	Not available	No chang
QN74: P	ar) ercenta	ge of st	udents								89.4	84.5	78.3	81.5 ama,	Decreased, 2013-2018  No linear change	Not available  Not available	No chang
QN74: P	ercenta student	ge of st govern	udents v ment)	who part	icipate i	n extrac	curricula	ar activi	ities at s	chool (s	89.4 such as 61.8	84.5 sports, 63.4	78.3 pand, dr 62.5	81.5 ama, 59.8			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

				H	lealth R	Risk Beh	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN78: or fit in	Percenta	age of st	udents v	who say	definite	ely yes o	or probal	bly yes	that smo	oking m	akes yo	ung peo	ple loo	k cool			
71 III III											11.7	13.7	11.3	13.8	No linear change	Not available¶	No chang
	Percenta f an alco						gly disar	prove o	of some	one thei	r age ha	aving or	e or tw	O			
iiiks o	r un urce	onone o	overage	neurly c	overy da	.,							82.5	83.7	No linear change	Not available	No chang
 ON80:	Percenta drink be													for			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

White\* Site-Added **Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN81: Percentage of students who think people are at moderate or great risk of harming themselves (physically or in other ways) if they have one or two drinks of alcohol (beer, wine, or liquor) nearly every day 72.1 70.1 77.5 73.9 No linear change Not available ¶ No change ON82: Percentage of students who think people are at moderate or great risk of harming themselves (physically and in other ways) if they have five or more drinks of alcohol (beer, wine, or liquor) once or twice a week 78.3 78.2 81.9 78.9 No linear change Not available No change QN83: Percentage of students who have an adult outside of school they can talk to about things that are important to them No linear change Not available No change 86.4 89.9 90.0 89.7 QN84: Percentage of students who would feel comfortable seeking help from one or more adults besides their parents if they had an important question affecting their life 81.5 83.0 82.4 83.4 No linear change Not available No change

<sup>\*</sup>Non-Hispanic.

Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>§</sup>Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

White* Site-Add	ed			F	Health F	Risk Beh	navior a	nd Per	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
			-	-		-	-	-	-		-			-			
QN85: had (dur		_				teacher	or other	adult ir	n their so	chool ab	32.8	ersonal 30.9	problen 32.1	30.7	No linear change	Not available¶	No change

<sup>\*</sup>Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Black* Injury ai	nd Viole	ence															
				H	Iealth R	Risk Bel	navior a	nd Per	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN6: Pobicycle)	ercentag	ge of stu	dents w	ho rarel	y or nev	er wore	a bicyc	le helm	et (amoi	ng stude	ents who	had ric	lden a				
											87.3	78.4	85.0	78.5	No linear change	Not available¶	No chang
QN8: Po	ercentag	ge of stu	dents w	ho rarel	y or nev	er wore	a seat b	elt (who	en riding	g in a ca	nr) 9.8	6.1	4.3	3.6	Decreased, 2013-2018	Not available	No chang
											<b></b>	0.1				1 vot available	110 chang
QN9: Po	ercentag	ge of stu	dents w	ho ever	rode wi	th a driv	ver who	had bee	n drinki	ng alco	hol (in a	a car)					
											19.2	15.0	19.1	14.5	No linear change	Not available	No change
QN10: I	Percenta	age of st	udents	who eve	r carried	d a wear	oon (suc	h as a g	un, knif	e, or clu							
											24.2	18.9	22.5	17.8	No linear change	Not available	No chang

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

				H	Iealth F	Risk Bel	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN11: 1	Percenta	nge of st	udents v	who we	re ever i	in a phys	sical figl	nt		•	71.9	61.1	68.3	60.1	No linear change	Not available¶	No chang
QN14: 1	Percenta	ige of st	udents v	who eve	er seriou	sly thou	ght abou	ıt killin	g thems	elves	21.9	18.5	19.5	21.6	No linear change	Not available	No chang
N15:	Percenta	nge of st	udents v	who eve	er made	a plan a	bout how	w they v	would ki	ill them	selves		11.6	11.0	No linear change	Not available	No chang
QN16:	Percenta	age of st	udents	who eve	er tried t	o kill the	emselve	S					9.0	5.7	No linear change	Not available	No chang

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Black\* **Tobacco Use Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs) 7.0 No linear change Not available ¶ No change 6.6 QN18: Percentage of students who tried cigarette smoking for the first time before age 11 years (even one or two puffs) 4.0 3.2 No linear change Not available No change QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) 4.1 1.9 0.3 0.7 Decreased, 2013-2018 Not available No change QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) 0.7 0.0 0.0 Not available Not available Not available 0.4

<sup>\*</sup>Non-Hispanic.

 $<sup>^{\</sup>dagger}$ Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>§</sup>Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

lack* obacco	Use																
				I	Iealth F	Risk Bel	navior a	nd Per	centage	S					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QNDAY pefore th			ge of st	udents v	vho curr	ently sn	noked ci	igarettes	daily (	on all 30	0 days d	uring th	ie 30 da	ys			
											0.3	0.0	0.0	0.0	Not available	Not available¶	Not availal
N21: I	Percenta	age of st	udents	who eve	er used a	n electr	onic vap	or prod	uct			•			,		
												14.7	20.0	18.2	No linear change	Not available	No chang
	Percenta ne surve		udents	who cur	rently u	sed an e	lectroni	c vapor	product	(on at l	east 1 d	ay durii	ng the 30	) days			
												8.6	5.5	5.0	No linear change	Not available	No chang
		rcentage ys befor			o currei	ntly used	l electro	onic vap	or produ	icts freq	uently (	(on 20 o	r more o	lays			
												0.5	0.0	0.0	Not available	Not available	Not availa

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Black* Tobacco U	J <b>se</b>																
				H	Iealth R	kisk Beł	iavior a	nd Per	centage	S					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991 1	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	201	8		
QNDAYE the 30 day				udents v	who curi	rently us	sed elect	tronic v	apor pro	oducts d	aily (on	all 30 d	ays dur	ing			
J			3,									0.5	0.0	0.0	Not available	Not available¶	Not available
QN24: Pe dissolvable vapor proc	le toba	cco prod	ducts [st	uch as C	Copenha	gen, Gri	zzly, Sk	coal, or	Camel S					nic			
													1.3	2.0	No linear change	Not available	No change
QN25: Pe					rently sı	noked c	igars (ci	igars, ci	garillos	, or little	e cigars,	on at le	ast 1 da	ıy			,
Č		-		,													

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Black* Alcohol	and Oth	ner Dru	ıg Use	H	Iealth F	Risk Bel	navior a	nd Pero	centages	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN26:	Percenta	age of st	tudents	who eve	er drank	alcohol	(other t	han a fe	w sips)		25.4	21.2	21.1	16.4	Decreased, 2013-2018	Not available <sup>¶</sup>	No change
QN27: 1	Percenta	age of st	tudents	who dra	nk alcol	nol for t	he first t	ime bef	ore age	11 year	rs (other	than a f	ew sips	)			,
											14.4	13.5	10.1	10.5	No linear change	Not available	No change
QN28: 1	Percenta	age of st	tudents	who eve	er used n	narijuan	a		,		0.6	0.4	0.6		N. 1' 1	N . 21.11	N. 1
											8.6	8.4	8.6	6.4	No linear change	Not available	No change
QN29: 1	Percenta	age of si	tudents	who trie	d marijı	iana for	the first	t time be	efore age	e 11 yea	ars 3.6	4.8	1.9	3.8	No linear change	Not available	No change

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Black* Alcohol a	and Otl	her Dru	ıg Use														
				H	Iealth F	Risk Bel	navior a	nd Per	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
different	Percenta tly than done, ar	how a d	loctor to														
<i>y</i> <b>a</b> 10 <b>0</b> 0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										4.0	8.9	Increased, 2016-2018	Not available¶	Increase
QN31: 1	Percenta	age of st	tudents	who eve	er used c	ocaine (	any for	m of co	caine, in	cluding	powder	r, crack,	or freel	pase)			,
											5.4	3.9	5.5	1.7	No linear change	Not available	No chang
	Percenta any pair					nhalants	(sniffed	d glue, b	breathed	the con	itents of	spray c	ans, or				,
											12.3	6.7	7.3	4.3	Decreased, 2013-2018	Not available	No chang
QN33: 1	Percenta	age of st	tudents	who eve	er took s	teroids v	without	a docto	r's presc	ription (	pills or	shots)					
											2.6	3.0	1.1	1.8	No linear change	Not available	No chan

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

				Н	lealth R	disk Beh	avior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN34: 1	Percenta	ige of st	udents v	who eve	r had se	xual inte	ercourse	;									
												8.9	8.0	6.6	No linear change	Not available <sup>¶</sup>	No change
QN35: 1	Percenta	nge of st	udents v	who had	sexual	intercou	rse for t	the first	time be	fore age	e 11 year		8.0	6.6	No linear change	Not available¶	No change
QN35: 1	Percenta	nge of st	udents v	who had	sexual	intercou	erse for t	he first	time be	fore age	e 11 yea		3.9	2.7	No linear change	Not available¶  Not available	No change

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

vergiit .	Manage	ment a	nu Dicu	-		Risk Bel	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN38:	Percenta	age of st	udents	who des	cribed t	hemselv	es as sli	ghtly or	very ov	verweig	ght 19.1	25.7	29.6	20.2	No linear change	Not available <sup>¶</sup>	No chang
QN39:	Percenta	age of st	udents	who wei	re trying	to lose	weight				43.4	43.3	45.1	38.2	No linear change	Not available	No chang
QN40:	Percenta	age of st	udents	who did	not eat	breakfa	st (durin	g the 7	days be	fore the	survey	)	:-				
											13.7	6.6	11.6	13.3	No linear change	Not available	No chang
QNBK7	DAY: 1	Percenta	nge of st	udents v	who ate	breakfa	st on all	7 days	(during	the 7 da	ays befo	ore the si	ırvey)				
											39.7	56.7	38.1	38.9	No linear change	Not available	No chan

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

Physical	Activit	y		H	lealth R	tisk Beh	avior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN41: kind of j days bef	physical	activity															
J		3,									51.2	46.4	42.0	50.7	No linear change	Not available¶	No change
QNPA0 1 day (ii		nd of ph	ysical a	ctivity tl													
during t											140	15.0	21.5	18.8	Increased, 2013-2018	Not available	
during t											14.3	15.3	21.5	10.0	mercuseu, 2013-2010	Not available	No chang
QNPA7 kind of j	physical	activity									per day	on all 7	days (i	n any		Not available	No chan

<sup>\*</sup>Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Black\* **Physical Activity Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 ON42: Percentage of students who watched television 3 or more hours per day (on an average school day) 57.3 54.5 42.2 32.8 Decreased, 2013-2018 Not available ¶ No change QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as playing games, watching videos, texting, or using social media on their smartphone, computer, Xbox, PlayStation, iPad, or other tablet, for something that was not school work, on an average school day) 48.8 40.6 49.6 56.1 Increased, 2013-2018 Not available No change QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school) 91.0 94.8 91.8 93.1 No linear change Not available No change

<sup>\*</sup>Non-Hispanic.

 $<sup>^{\</sup>dagger}$ Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>{}^\</sup>S Based$  on t-test analysis, p < 0.05.

Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Black\* **Physical Activity Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school) No linear change Not available ¶ No change 7.8 5.9 5.8 11.4 QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey) 62.6 57.6 58.6 No linear change Not available No change QN46: Percentage of students who had a concussion from playing a sport or being physically active (one or more times during the 12 months before the survey) 25.3 16.6 Not available No change No linear change

<sup>\*</sup>Non-Hispanic.

 $<sup>^{\</sup>dagger}$ Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>{}^{\</sup>S}B$  ased on t-test analysis, p < 0.05.

Not enough years of data to calculate.

Black* Other																	
				H	Iealth R	kisk Beh	avior a	nd Pero	centages	S					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
QN47: I	Percenta	age of st	udents v	who had	l ever be	en told	by a doc	ctor or n	urse tha	t they h	ad asth	ma					
											20.6	22.0	25.7	24.2	NT 11 1	NY	
											30.6	32.8	25.7	34.2	No linear change	Not available <sup>¶</sup>	No change
QN48: 1	Percenta	age of st	udents v	who got	8 or mo	ore hours	s of slee	p (on an	ı averag	e schoo			25.7	34.2	No linear change	Not available	No change
QN48: 1	Percenta	age of st	udents v	who got	8 or mo	ore hours	s of slee	p (on an	ı averagı	e schoo			43.0	52.5	No linear change	Not available	No change
QN48: 1  QN49: 1 before th	Percenta	age of st					,			,	l night) 47.7	57.9	43.0	52.5			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $<sup>^{\$}</sup>$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Black\* Site-Added **Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN52: Percentage of students who have ever ridden in a car driven by someone who was texting while they were driving the car No linear change Not available ¶ Decreased 49.7 68.2 41.1 QN54: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey) Not available No change 23.6 18.8 22.9 25.6 No linear change QN55: Percentage of students who smoked a whole cigarette before age 11 years (for the first time) 4.0 2.8 Decreased, 2013-2018 Not available No change QN62: Percentage of students who think they definitely or probably will smoke a cigarette, cigar, cigarillo, or little cigar in the next year 12.2 5.9 Decreased, 2016-2018 Not available Decreased

<sup>\*</sup>Non-Hispanic.

Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>§</sup>Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

Site-Added				H	Health H	Risk Bel	navior a	nd Per	centage	S					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991 199	3 199	5 19	997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN63: Perce flavored smol survey)																	
• •											3.1	2.8	1.1	0.3	Decreased, 2013-2018	Not available <sup>¶</sup>	No change
QN64: Perce	ntage of	stude	ents v	vho trie	ed or use	ed tobaco	co produ	icts for	the first	time (d	uring th	ne 12 mo	onths be	fore			
												2.8	2.5	0.3	Decreased, 2014-2018	Not available	No change
QN66: Perce	ntage of	stude	ents v	vho live	e with so	omeone	who no	w smok	es cigar	ettes or	cigars	•					
											37.7	39.1	40.1	32.9	No linear change	Not available	No change
QN67: Perce anywhere ins									le their	nome is	that sm	noking i	s not all	owed			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Dlook\*

				H	ealth R	isk Beh	navior a	nd Per	centage	S					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN68: I during th					e in the	same ro	om wit	h some	one who	was sm	oking (	on at le	ast one	day			
													18.8	15.5	No linear change	Not available¶	No change
QN69: I				who curi	ently di	ank alco	ohol (at	least or	ne drink	of alcol	hol, on	at least	1 day dı	ıring			
				who curi	ently di	rank alco	ohol (at	least or	ne drink	of alcol	hol, on	at least	1 day di 9.4	aring	Decreased, 2013-2018	Not available	No change
	ays befo	ore the s	urvey)								13.1	6.2	9.4	6.1	Decreased, 2013-2018	Not available	No change
2N70: 1	ays befo	ore the s	urvey)								13.1	6.2	9.4	6.1	Decreased, 2013-2018  Decreased, 2013-2018	Not available  Not available	No chang
2N70: 1	Percenta	age of st	urvey)	who curi	ently us	sed mari	ijuana (d	one or n	nore tim	es durin	13.1 mg the 3	6.2 0 days l 6.6	9.4 perfore the 4.3	6.1 ne 4.2			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Dlook\*

				H	lealth R	kisk Beh	avior a	nd Pero	centage	es					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
	Percenta he 12 m					st (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or otl	her dent	al work	,			
													71.4	67.5	No linear change	Not available <sup>¶</sup>	No change
N73.	Danasati		·														
gn73: school y		age of s	udents v	who wer	e taugh	t in their	r classes	about t	he dang	gers of to	obacco	use (du	ring the	last			
		age of s	udents v	who wei	e taugh	t in their	r classes	about t	he dang	gers of to	obacco 83.7	use (du 81.8	ring the	72.7	Decreased, 2013-2018	Not available	No chang
QN74:		age of s	udents v								83.7	81.8	74.0	72.7	Decreased, 2013-2018	Not available	No change
QN74:	vear) Percenta	age of s	udents v								83.7	81.8	74.0	72.7 rama,	Decreased, 2013-2018  No linear change	Not available  Not available	No chang  No chang
QN74:	vear) Percenta	age of si	udents viment)	who par	ticipate	in extrac	curricula	ar activi	ties at s	chool (s	83.7 such as 64.8	81.8 sports,	74.0 cand, dr 54.6	72.7 rama, 62.5			

<sup>\*</sup>Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

				H	Iealth F	Risk Bel	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN78: or fit in	Percenta	age of st	udents v	who say	definite	ely yes o	or proba	bly yes	that smo	oking m	akes yo	oung peo	ple loo	k cool	+		
											28.6	21.8	25.8	22.0	No linear change	Not available¶	No change
	Percenta						gly disa	pprove o	of some	one thei	ir age h	aving or	ne or tw	0			,
dilliks 0	an arec	onone o	everage	nearry c	every da	iy							70.6	76.9	No linear change	Not available	No change
	Percenta											g or ver		for			
	drink be	er wine															

<sup>\*</sup>Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Black\* Site-Added **Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN81: Percentage of students who think people are at moderate or great risk of harming themselves (physically or in other ways) if they have one or two drinks of alcohol (beer, wine, or liquor) nearly every day 64.6 71.3 73.7 69.8 No linear change Not available ¶ No change ON82: Percentage of students who think people are at moderate or great risk of harming themselves (physically and in other ways) if they have five or more drinks of alcohol (beer, wine, or liquor) once or twice a week 71.4 72.1 72.5 70.9 No linear change Not available No change QN83: Percentage of students who have an adult outside of school they can talk to about things that are important to them No linear change Not available No change 83.1 85.6 86.4 86.1 QN84: Percentage of students who would feel comfortable seeking help from one or more adults besides their parents if they had an important question affecting their life 81.3 82.0 75.3 81.0 No linear change Not available No change

<sup>\*</sup>Non-Hispanic.

Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>§</sup>Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

Site-Add	led			F	Health F	Risk Beh	navior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
ON105.	Doroont	ogo of at	. 1 .						•			-	-				
had (dui		_				teacher	or other	adult in	their so	chool ab	30.4	ersonal 33.6	problen 31.9	30.0	No linear change	Not available¶	No change

<sup>\*</sup>Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic

				Н	ealth Ri	isk Beha	avior ar	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 †
1991 199	93	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN8: Percer	ntage	of stud	dents w	ho rarel	y or nev	er wore	a seat b	elt (who	en riding	g in a ca	r)						
											7.8	3.8	4.3	9.0	No linear change	Not available§	No change
N9: Percer	ntogo	- C - 4															
	mage	of stud	dents w	ho ever	rode wi	ith a driv	er who	had bee	n drinki	ng alco	hol (in 22.9	a car) 15.6	19.2	18.7	No linear change	Not available	No change
QN10: Perce											22.9 b)	15.6					
											22.9		19.2	18.7	No linear change  No linear change	Not available  Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic

				Н	ealth Ri	isk Beha	avior an	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN14:	Percenta	age of s	tudents	who eve	r seriou	sly thou	ght abou	ut killing	g thems	elves	23.7	20.7	25.1	23.2	No linear change	Not available <sup>§</sup>	No change
QN15:	Percenta	age of s	tudents	who eve	r made	a plan a	bout hov	w they v	vould ki	ill them	selves		17.4	13.1	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic **Tobacco Use Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs) 8.5 7.2 No linear change Not available§ No change QN18: Percentage of students who tried cigarette smoking for the first time before age 11 years (even one or two puffs) 2.3 3.3 No linear change Not available No change QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) 2.0 No change 4.6 6.2 1.5 No linear change Not available

0.6

2.3

0.0

0.7

Not available

Not available

QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30

days before the survey)

Not available

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.  $^{\dagger}$ Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
NDAY efore th			ge of st	udents v	who curr	ently sn	noked ci	garettes	daily (	on all 30	0 days d	luring tl	ne 30 da	ıys			
											0.6	1.4	0.0	0.7	Not available	Not available§	Not available
QN21: I	Percent	age of st	udents	who eve	er used a	ın electro	onic vap	or prod	uct	·					+		
												17.4	20.1	24.9	No linear change	Not available	No change
N22: I			udents	who cur	rently u	sed an e	lectronic	e vapor	product	(on at 1	least 1 d	ay duri	ng the 3	0 days			
												7.3	5.5	9.6	No linear change	Not available	No change
		rcentage sys befo			io currei	ntly used	l electro	nic vapo	or produ	icts freq	quently (	(on 20 c	or more	days			
												1.2	1.6	3.1	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

Hispanic Fobacco U	U <b>se</b>														* · · · · · · · · · · · · · · · · · · ·		
				Н	ealth Ri	isk Beh	avior ar	id Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QNDAY the 30 da				tudents v	who cur	rently us	sed elect	ronic v	apor pro	ducts d	aily (on	all 30 d	lays dur	ing			
ine so de	275 0010	ne uie s	ui (ey)									1.2	1.6	2.8	No linear change	Not available§	No change
QN24: I dissolval vapor pre	ble toba	cco pro	ducts [s	uch as C	Copenha	gen, Gri	zzly, Sk	oal, or						nic			
													1.3	4.0	No linear change	Not available	No change
QN25: I during th					rently si	moked c	igars (c	igars, ci	garillos	, or little	e cigars,	on at le	east 1 da	ıy			
											3.6	6.7	1.0	2.8	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

## **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic **Alcohol and Other Drug Use** Linear Change\* **Health Risk Behavior and Percentages** Quadratic Change\* Change from 2016-2018 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 QN26: Percentage of students who ever drank alcohol (other than a few sips) 27.5 18.8 17.3 21.1 No linear change Not available§ No change QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips) 12.2 11.6 9.2 11.0 No linear change Not available No change QN28: Percentage of students who ever used marijuana 8.9 No linear change Not available No change 12.6 6.4 8.9 QN29: Percentage of students who tried marijuana for the first time before age 11 years 3.3 5.8 2.7 No linear change Not available No change 5.3

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

Hispanic Alcohol a	nd Oth	er Dru	g Use														
	Health Risk Behavior and Percentages													Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN30: I	ly than	how a c	doctor to	who eve	r took p to use i	orescript t (count	on pain ng drug	medicii s such a	ne withous codei	out a doone, Vico	ctor's pr odin, Ox	escripti cycontin	on or				
nydroco	done, ui	id Teres	occi)										5.9	7.3	No linear change	Not available <sup>§</sup>	No change
QN31: 1	Percenta	age of s	tudents	who eve	er used o	cocaine (	any fori	m of coo	caine, in	cluding	powder	r, crack,	or freel	base)			
											6.8	4.8	9.7	3.7	No linear change	Not available	No change
QN32: I						nhalants	(sniffed	d glue, b	reathed	the con	itents of	spray c	ans, or				
											11.0	11.1	6.4	4.6	Decreased, 2013-2018	Not available	No change
QN33: 1	Percenta	age of s	tudents	who eve	er took s	teroids v	vithout	a doctor	's presc	ription (	pills or	shots)					
											5.9	5.1	3.6	3.3	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic

Sexual B	ehavior	s		Н	ealth R	isk Beh	avior an	d Perce	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN34:	Percenta	age of si	tudents	who eve	er had se	exual int	ercourse					6.0	5.8	5.7	No linear change	Not available <sup>§</sup>	No change
QN35:	Percenta	age of st	tudents	who had	l sexual	intercou	irse for t	he first	time be	fore age	e 11 yea	3.2	1.4	2.1	No linear change	Not available	No change
QN36:	Percenta	age of st	tudents	who eve	er had se	exual int	ercourse	with th	ree or n	nore pei	rsons	3.9	1.9	2.3	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

nagen	nent an	d Dieta	-		isk Beh	avior ar	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from
																2016-2018 <sup>†</sup>
1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	•		
ercenta	ge of st	udents	who des	cribed t	hemselv	es as sli	ghtly or	very o	verweig	ht		:		,		
										29.9	28.8	29.2	31.4	No linear change	Not available§	No change
ercenta	ge of st	udents	who we	re trying	to lose	weight						-	-			
reemu	ge of st	dacins	wild we	ie trymg	5 to 1050	weight				45.8	51.3	59.8	52.2	No linear change	Not available	No change
ercenta	ge of st	udents	who did	not eat	breakfa	st (durin	g the 7	days be	fore the	survey	 )					
										13.3	9.9	12.0	11.4	No linear change	Not available	No change
																<del>.</del>
AY: F	Percenta	ige of st	tudents v	who ate	breakfa	st on all	7 days	(during	the 7 da	ays befo	re the s	urvey)				
										40.7	53.0	36.9	47.9	No linear change	Not available	No change
	993 rcenta	993 1995 recentage of st	993 1995 1997 reentage of students reentage of students	993 1995 1997 1999  recentage of students who descreentage of students who were	993 1995 1997 1999 2001  recentage of students who described to recentage of students who were trying recentage of students who did not eat	Health Risk Beha  993 1995 1997 1999 2001 2003  recentage of students who described themselver recentage of students who were trying to lose recentage of students who did not eat breakfar	Health Risk Behavior are 1993 1995 1997 1999 2001 2003 2005 recentage of students who described themselves as slipercentage of students who were trying to lose weight recentage of students who did not eat breakfast (during the control of the cont	Health Risk Behavior and Percentage of students who described themselves as slightly or reentage of students who were trying to lose weight reentage of students who did not eat breakfast (during the 7	Health Risk Behavior and Percentages  993 1995 1997 1999 2001 2003 2005 2007 2009  recentage of students who described themselves as slightly or very overcentage of students who were trying to lose weight  recentage of students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students who did not eat breakfast (during the 7 days beautiful to the students).	Health Risk Behavior and Percentages  993 1995 1997 1999 2001 2003 2005 2007 2009 2011  recentage of students who described themselves as slightly or very overweig  recentage of students who were trying to lose weight  recentage of students who did not eat breakfast (during the 7 days before the	Health Risk Behavior and Percentages  993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013  recentage of students who described themselves as slightly or very overweight 29.9  recentage of students who were trying to lose weight  45.8  AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey 13.3	Health Risk Behavior and Percentages  993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014  recentage of students who described themselves as slightly or very overweight 29.9 28.8  recentage of students who were trying to lose weight 45.8 51.3  recentage of students who did not eat breakfast (during the 7 days before the survey) 13.3 9.9  AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the size)	Health Risk Behavior and Percentages  993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016  recentage of students who described themselves as slightly or very overweight 29.9 28.8 29.2  recentage of students who were trying to lose weight 45.8 51.3 59.8  recentage of students who did not eat breakfast (during the 7 days before the survey) 13.3 9.9 12.0  AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)	Health Risk Behavior and Percentages  1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018  Treentage of students who described themselves as slightly or very overweight 29.9 28.8 29.2 31.4  Treentage of students who were trying to lose weight 45.8 51.3 59.8 52.2  Treentage of students who did not eat breakfast (during the 7 days before the survey)  13.3 9.9 12.0 11.4  AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)	Linear Change 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018  Treentage of students who were trying to lose weight reentage of students who did not eat breakfast (during the 7 days before the survey)  AY: Percentage of students who at breakfast on all 7 days (during the 7 days before the survey)	Health Risk Behavior and Percentages  1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018  The contage of students who described themselves as slightly or very overweight recentage of students who were trying to lose weight recentage of students who did not eat breakfast (during the 7 days before the survey)  13.3 9.9 12.0 11.4 No linear change Not available  AY: Percentage of students who are breakfast on all 7 days (during the 7 days before the survey)

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

**Physical Activity Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) 48.1 44.1 43.0 42.3 No linear change Not available§ No change QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

15.4 16.2

26.8 23.2 23.5 23.3

24.0 19.4

No linear change

No linear change

Not available

Not available

QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7

days before the survey)

Hispanic

No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

				Не	ealth Ri	sk Beha	vior an	d Perce	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN42: P	ercenta	ige of st	udents v	vho wat	ched tel	evision	3 or mo	re hours	s per day	y (on ar	averag	e schoo	l day)				
											38.3	32.8	23.3	27.8	Decreased, 2013-2018	Not available§	No change
QN43: Po	time s	pent on nputer, 2	things s	such as p	olaying g	games, v	vatching	, videos	, texting	g, or usi	ng soci	al media	a on the	ir			
smartphor average s		lay)									46.4	33.5	48.9	46.6	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Hispanic **Physical Activity Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school) 3.5 6.1 7.6 10.3 Increased, 2013-2018 Not available§ No change QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey) 51.3 48.2 Decreased, 2014-2018 Not available No change

14.3

19.2

No linear change

Not available

QN46: Percentage of students who had a concussion from playing a sport or being physically active (one or more

times during the 12 months before the survey)

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

				Не	ealth Ri	sk Beha	avior an	d Perce	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
									•			•	+				
N47:	Percenta	age of st	tudents v	vho had	ever be	en told	by a doc	tor or n	urse tha	t they ha	ad asthr	na					

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey)

78.9 82.5 77.9 No linear change Not available No change

56.0 57.1 57.2 60.5

No linear change

\*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

Hispanic

No change

Not available

Based on t-test analysis, p < 0.05. 
Not enough years of data to calculate.

Iispanic ite-Add																	
				Н	ealth R	isk Beh	avior ar	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN52: driving		age of s	tudents	who hav	e ever r	ridden ir	a car d	riven by	someo	ne who	was tex	ting wh	ile they	were			
arring	uic cui											49.8	56.1	42.3	No linear change	Not available <sup>§</sup>	Decreased
				who felt vities, ev						rey)	32.6	28.9	34.0	31.4	No linear change	Not available	No change
QN55:	Percent	age of s	tudents	who sm	oked a v	whole ci	garette l	pefore a	ge 11 ye	ears (for	the firs	t time)	•				-
											8.3	2.6	2.9	1.3	No linear change	Not available	No change
QN62: little cig				who thin	nk they	definitel	y or pro	bably w	ill smol	ke a ciga	arette, c	igar, cig	garillo, o	or			
													11.3	7.5	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth R	isk Beh	avior aı	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
										eigars, cig , during t				5,			
•											3.2	5.5	1.6	2.5	No linear change	Not available§	No change
															_		2
QN64: I		age of st	udents v	who trie	d or use	d tobac	co produ	acts for	the first	time (du	ring the	e 12 m	onths be	fore			
		age of st	udents v	who trie	d or use	d tobac	co produ	ucts for	the first	time (du	ring the	e 12 me	onths be	fore 4.1	No linear change	Not available	
the surve	ey)									time (du					No linear change	Not available	No change

No linear change

86.1 86.5

No change

Not available

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# Maryland Middle School Survey Anne Arundel County Trend Analysis Report

Site-Added **Health Risk Behavior and Percentages** Linear Change\* Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN68: Percentage of students who were in the same room with someone who was smoking (on at least one day during the 7 days before the survey) 14.2 12.8 No linear change Not available§ No change QN69: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey) 12.9 8.4 6.6 10.3 No linear change Not available No change QN70: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)

13.1

13.0

7.4

4.7

7.5

8.9

8.0

7.2

No linear change

No linear change

Not available

Not available

QN71: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12

months before the survey)

Hispanic

No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. \*Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

### **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

				Н	ealth Ri	sk Beh	avior ar	d Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
	Percenta he 12 m					st (for a	check-ı	ıp, exan	n, teeth	cleaning	, or oth	er denta	l work,		,		
													65.2	65.3	No linear change	Not available§	No change
ON73:	Percenta	ige of st	udents v	vho wer	e taught	in their	r classes	about t	he dang	ers of to	bacco i	ıse (duri	ng the l	ast			
O1113.		C			υ				C			`	U				
school y	rear)																
	rear)										78.8	81.3	70.5	70.8	Decreased, 2013-2018	Not available	No change
oschool y QN74:	Percentar student			who part	icipate i	in extra	curricul	ar activi	ties at se						Decreased, 2013-2018	Not available	No change

33.2 30.4 27.2 37.0

No linear change

Not available

friends

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic

				Н	ealth R	isk Beha	avior ar	nd Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
QN78: or fit in	Percenta	age of st	udents v	who say	definite	ely yes o	or proba	bly yes	that smo	oking m	akes yo	ung peo	ple loo	k cool			
											22.5	14.6	19.0	18.2	No linear change	Not available <sup>§</sup>	No change
	Percenta of an alco					or strong	gly disa	oprove o	of some	one thei	ir age ha	aving or	76.7	72.0	No linear change	Not available	No change
~		0			L	that thei s vodka								for			·,

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

lispanic ite-Add																	
				Н	ealth Ri	isk Beh	avior aı	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
				who thir									(physic	ally or			
											62.0	75.8	77.8	68.4	No linear change	Not available§	No change
				who thir										ally			
											72.0	73.0	78.7	70.1	No linear change	Not available	No change
QN83: to them		age of s	tudents	who hav	ve an adı	ult outsi	de of sc	hool the	y can ta	ılk to ab	out thin	gs that	are imp	ortant	,		
											83.1	89.1	77.5	78.6	No linear change	Not available	No change
				who wo				eking he	lp from	one or	more ad	ults bes	sides the	eir			,
											75.8	79.1	77.3	75.4	No linear change	Not available	No change

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

<sup>§</sup>Not enough years of data to calculate.

# **Maryland Middle School Survey Anne Arundel County Trend Analysis Report**

Hispanic

				H	ealth R	isk Beha	avior an	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2015
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
-		_				teacher	or other	adult in	their so	chool ab	out a pe	rsonal	problen	n they			
-		_	tudents v			teacher	or other	adult in	their so		out a pe	ersonal 38.1	problen	·	No linear change	Not available <sup>§</sup>	No chang
		_				teacher	or other	adult in	their so		•		•	31.5	No linear change	Not available <sup>§</sup>	No chang
nd (duri	Percenta	12 mon	ths before	re the su	ırvey)	teacher		,	,		34.2	38.1	30.7	31.5	No linear change	Not available <sup>§</sup>	No chang

<sup>\*</sup>Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.