			Н	ealth Ri	isk Beha	avior ar	nd Perce	entages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2016-2018 <sup>†</sup>
1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
						ho had b	oeen dri	nking al	lcohol (i	in a car	or other	vehicle	, one	1		
	Ü	J			3,					21.2	20.2	15.6	15.4	Decreased, 2013-2018	Not available§	No change
·c	centag	centage of stu	centage of students w	993 1995 1997 1999 centage of students who rode	993 1995 1997 1999 2001  centage of students who rode with a centage of students who rode who rode with a centage of students who rode who rode with a centage of students who	993 1995 1997 1999 2001 2003	993 1995 1997 1999 2001 2003 2005  Deentage of students who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a driver who had become a student who rode with a student who rode who rode who rode with a student who rode who	993 1995 1997 1999 2001 2003 2005 2007  Deentage of students who rode with a driver who had been driver.	993 1995 1997 1999 2001 2003 2005 2007 2009  tentage of students who rode with a driver who had been drinking all	centage of students who rode with a driver who had been drinking alcohol (	993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013  The sentage of students who rode with a driver who had been drinking alcohol (in a carnes during the 30 days before the survey)	993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014  The sentage of students who rode with a driver who had been drinking alcohol (in a car or other nes during the 30 days before the survey)	993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016  The entage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle nes during the 30 days before the survey)	993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 centage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one nes during the 30 days before the survey)	993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018  The sentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one mes during the 30 days before the survey)	993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018  The sentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one mes during the 30 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.

				Н	ealth Ri	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	<del>_</del>		
							while di l driven										
,											35.4	30.6	30.7	27.3	Decreased, 2013-2018	Not available§	NI. d
											33.4	30.0	30.7	21.3	Decreased, 2013-2016	Not available	No change
			tudents v			eapon o	on schoo	l proper	ty (such	ı as a gu					Decreased, 2013-2016	Not available	No change
						eapon o	on schoo	l proper	ty (such	ı as a gu					No linear change	Not available	Decreased
day duri QN14:	ng the 3  Percenta	0 days l	before the	ne surve	ried a gu	un (not c	on schoo	the day	s when	they car	n, knife 4.9 rried a g	, or club	7.7	least 1 4.9			

<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 njury an	ıd Viole	ence		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	3		
QN16: knife, or										on scho	ol prop	erty (su	ch as a g	gun,			
											10.4	7.8	7.8	7.7	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN18: months				who wer	re in a p	hysical	fight on	school	property	(one or	r more	times di	iring the	: 12			
											12.6	10.9	11.1	10.9	No linear change	Not available	No change
QN22: someone with an went our	e they w object o	vere dati or weapo	ng or go on] one o	oing out or more	with [co	ounting a	such thi e 12 mo	ngs as b nths bef	eing hit	, slamm	ed into	someth	ing, or i	njured			,
											12.8	12.1	10.6	12.2	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.

Total Injury an	d Viole	nce		Н	ealth R	isk Beh	avior aı	nd 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	<u> </u>		
QN23:	Percenta	age of st	tudents	who we	re bullie	d on scl	nool pro	perty (e	ver duri	ng the 1	2 mont	hs befor	e the su	rvey)			
											21.9	17.5	19.4	16.5	Decreased, 2013-2018	Not available <sup>§</sup>	Decreased
QN24: Faceboo											d throug	gh textin	g, Insta	gram,			
											16.2	15.6	16.8	13.3	Decreased, 2013-2018	Not available	Decreased
QN25: stopped											eks in a	row so	that the	y			
											27.9	27.4	32.4	32.0	Increased, 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 High School Survey Anne Arundel County Trend Analysis Report**

Total **Injury and Violence** Linear Change\* **Health Risk Behavior and Percentages** Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey) Not available§ 16.9 17.0 19.5 18.6 No linear change No change

before the survey) 13.0 13.8 16.5 17.1 Increased, 2013-2018 Not available No change

QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months

<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	I lee																
Tobacco	osc .			Н	ealth R	isk Beh	avior ar	nd 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	_		
QN32: survey)	Percent	age of st	tudents	who cur	rently s	moked o	eigarette	s (on at	least 1 o	lay duri	ing the 3	30 days	before t	he			
											13.7	10.7	9.2	6.0	Decreased, 2013-2018	Not available <sup>§</sup>	Decreased
QNFRC days bef		_	of stud	lents wh	o currer	ntly smo	ked ciga	rettes fi	requentl	y (on 20	or mo	re days	during t	he 30			
·		•									4.6	2.5	1.6	2.0	Decreased, 2013-2018	Not available	No change
QNDAY before the			ige of st	udents v	who curi	rently sn	noked ci	igarette	s daily (	on all 30	0 days c	luring th	ne 30 da	ys			
											3.4	2.1	1.1	1.6	Decreased, 2013-2018	Not available	No change
QN34: vape pip eGo, and	es, vapi	ing pens															
230, and	. 11u10])	•										42.6	39.8	44.3	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.

Γotal Γobacco	Use																
				Н	ealth R	isk Beh	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	3		
QN35: e-pipes, Plus, eC	vape pi	pes, vaj	ping pen	s, e-hoo	kahs, ar	nd hooka	h pens	[such as	blu, NJ								
												22.8	17.4	29.8	Increased, 2014-2018	Not available§	Increased
QNFRE during t					o curre	ntly used	l electro	nic vap	or produ	icts free	quently (	(on 20 c	or more	days			
												3.0	2.5	7.8	Increased, 2014-2018	Not available	Increased
QNDA's the 30 d				tudents	who cur	rently u	sed elec	tronic v	apor pro	oducts d	aily (on	all 30 c	lays dui	ring			
												2.2	2.0	5.6	Increased, 2014-2018	Not available	Increased
QNTB5						smoked	l cigaret	tes or us	sed elec	tronic v	apor pro	oducts	(on at le	east 1	,		
												26.6	21.4	31.5	Increased, 2014-2018	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.

Γotal Γobacco	Use			Н	ealth R	isk Beh	avior ar	ıd 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		
QN36: (such as survey,	a conve	enience	store, st	ıpermar	ket, disc	count sto	ore, gas s	station,	or vape	store, d	uring th	e 30 day			No linear change	Not available <sup>§</sup>	No change
QN37: dissolva vapor pi	ble toba	acco pro	ducts [s	uch as C	Copenha	igen, Gri	izzly, Sk	coal, or						nic			
													6.0	3.9	Decreased, 2016-2018	Not available	Decreased
QN38: during t					rently s	moked c	cigars (ci	igars, ci	garillos	, or little	e cigars,	on at le	east 1 da	ıy			
											12.8	12.8	10.4	6.3	Decreased, 2013-2018	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 High School Survey Anne Arundel County Trend Analysis Report

Total Tobacco Use

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*
Change from 2016-2018†

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

QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)

19.2 17.4 14.7 9.7 Decreased, 2013-2018

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.

Not enough years of data to calculate.

Total Alcohol a	and Oth	er Dru	g Use	Н	ealth Ri	isk Beh	avior aı	nd Perc	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	3		
QN40:	Percent	age of s	tudents	who had	l their fi	rst drink	of alco	hol befo	ore age	13 years	s (other	than a f	ew sips	)	,		
											20.8	17.7	15.9	15.4	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN41: the 30 d		_		who cur	rently d	rank alc	ohol (at	least or	ne drink	of alcol	hol, on	at least	l day dı	uring			
			,								34.9	30.2	29.7	27.5	Decreased, 2013-2018	Not available	No change
QN42: female s day duri	tudents	or five	or more	drinks o	of alcoho												
													16.7	14.6	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.

Fotal Alcohol a	and Oth	er Druş	g Use	Н	ealth R	isk Beh	avior aı	ıd 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	<del>_</del>		
QN45:	Percenta	age of s	tudents	who eve	er used r	narijuan	ıa (one c	or more	times du	iring the	eir life)						
											36.6	33.9	32.1	30.8	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN46:	Percenta	age of s	tudents	who trie	d mariji	uana for	the first	time be	efore ag	e 13 yea	ars		<del></del>				
											8.2	7.8	7.7	6.4	No linear change	Not available	No change
QN47: survey)	Percenta	age of s	tudents	who cur	rently u	sed mar	ijuana (d	one or n	nore tim	es durir	ng the 3	0 days b	efore th	ie			
,											19.9	21.0	19.9	17.5	Decreased, 2013-2018	Not available	No change
QN48:	Percenta	age of s	tudents	who eve	er used s	synthetic	marijua	ana (one	e or mor	e times	during	their life	e)				
												11.6	7.4	7.3	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.

				Н	ealth Ri	isk Beh	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	_		
differer	tly than	how a d	octor to	ld them	to use i	orescript t (count during	ing drug	s such a									
													15.0	14.2	No linear change	Not available <sup>§</sup>	No change
-	Percent nore tim	_			r used c	cocaine (	any form	n of coc	aine, in	cluding	powde	r, crack,	or freel	oase,			
											7.4	6.6	5.7	5.4	Decreased, 2013-2018	Not available	No change
	Percent		udents	who eve	r used h	neroin (a	lso calle	d "smac	ck," "jur	nk," or "	'China '	White,"	one or r	nore			
	uring the	ii iiie)													NT 11 1		
		en me)									5.4	4.1	4.7	4.4	No linear change	Not available	No change
QN53:	uring the	age of si				methamp	hetamin	es (also	called '	"speed,'					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	ınd Oth	er Dru	g Use														
				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		
QN54:	Percent	age of s	tudents	who eve	er used e	ecstasy (	also call	ed "MD	MA," c	one or m	ore tim	es durir	ng their	life)			
											9.4	7.2	5.9	5.8	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN56: body, or						ed any il	legal dr	ug (useo	d a need	le to inj	ect any	illegal	drug int	o their			
<b>3</b> /				,	,						4.3	3.5	4.5	5.1	No linear change	Not available	No change
QN57:		_		who we	re offere	ed, sold,	or give	n an ille	gal drug	g on sch	ool pro	perty (d	uring th	e 12			
months	before t	he surve	ey)								30.9	27.5	27.2	23.1	Decreased, 2013-2018	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 High School Survey **Anne Arundel County Trend Analysis Report**

Total

				Н	ealth Ri	sk Beha	vior 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	_		
QN58:	Percenta	age of st	tudents v	who eve	r had se	xual inte	ercourse				39.2	32.9	35.9	33.2	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN59:	Percenta	age of st	tudents	who had	sexual	intercou	rse for t	he first	time be	fore age	2 13 year	rs 4.1	4.0	4.1	No linear change	Not available	No change
QN60:	Percenta	age of st	tudents	who had	sexual	intercou	rse with	four or	more p	ersons o	during tl	heir life					
*																	
•											12.5	7.8	8.4	8.7	Decreased, 2013-2018	Not available	No change
QN61: during t					e currer	ntly sexu	ally act	ive (had	l sexual	interco					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.

Fotal Sexual Be	ehavior	s															
				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	-		
QN62: who wer					nk alcol	hol or us	sed drug	s before	last sex	cual inte	ercourse	(amon	g studen	nts			
											27.0	28.7	22.4	20.8	Decreased, 2013-2018	Not available§	No change
QN63:				who use	ed a conc	dom dur	ring last	sexual i	ntercou	rse (am	ong stud	dents w	no were				
											60.0	61.9	55.2	56.8	No linear change	Not available	No change
QN64: among s							pills bef	ore last	sexual i	ntercou	rse (to p	prevent	pregnan	cy,			
											21.4	18.9	26.2	28.9	Increased, 2013-2018	Not available	No change
QNIUD or Nexp active)																	
											1.6	1.2	4.2	2.4	Increased, 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.

				Н	ealth Ri	sk Beha	avior ar	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	-		
control 1	ARG: I	ch as Nu	vaRing)														
•	,	J									3.9	4.0	3.0	4.1	No linear change	Not available§	No change
ONOTE	IIIDI I		<u> </u>	1 .	,	11:4	. 1	.11	TID (	1 34		D C	1)				
	IHPL: I (such as	s Implan	on or N	explano	n); or a	shot (su	ch as D	epo-Pro	vera), pa	atch (su	ch as O	rthoEvr	a), or bi				
control 1				,													
control 1	ring (suc y sexual										26.9	24.1	33.5	35.4	Increased, 2013-2018	Not available	No change
QNDUA pills; an Depo-Pi		Percentauch as M	age of st	udents v r ParaGa OrthoEv	who use ard) or i ra), or b	mplant ( irth con	(such as trol ring	Impland (such a	on or No s Nuval	tual inte	ercourse n); or a	and bir	th contro	ol	Increased, 2013-2018	Not available	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.

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

Total

				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	_		
						not use y sexual			prevent j		cy during		exual	9.4	Decreased, 2013-2018	Not available <sup>§</sup>	No chang
N84: F	rse (amo	ong stud	udents wh	o were	currently	y sexual	ly active	e) -				13.3	11.1		Decreased, 2013-2018	Not available <sup>§</sup>	No c

<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.

				Н	ealth Ri	isk Beha	avior 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	_		
						erweigh data fro						tile for t	ody ma	ss			
											14.6	14.0	14.5	16.0	No linear change	Not available¶	No change
						besity (>			le for be	ody mas	ss index	, based	on sex-	and			
											12.1	11.6	13.4	12.5	No linear change	Not available	No change
QN67:	Percenta	age of st	udents	who des	cribed t	hemselv	es as sli	ghtly or	very ov	verweig	ht	<del>.</del>	<del>.</del>				
											28.9	26.4	29.8	30.4	No linear change	Not available	No change
						1 6 11	: (10	00% frui	t inices	one or i	more tin	nes duri	ng the 7	davs			1
QN69: before t			udents	who did	not drii	ik fruit j	uice (10	70 70 II uI	it juices	one or i	more un	nes dan	g ,	,			

<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>lt;sup>§</sup>Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

				Н	ealth Ri	isk Beha	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	<del>_</del> \$		
QN70:	Percenta	age of st	tudents v	who did	not eat	fruit (on	ne or mo	ore times	s during	the 7 da	ays bef	ore the s	urvey)				
											14.9	16.2	17.2	14.5	No linear change	Not available§	No change
QNFR0							r drink	100% fr	uit juice	es (such	as oran	ige juice	, apple	juice,			
QNFR0 or grape							or drink	100% fr	uit juice	es (such	as oran	ige juice	, apple 10.0	juice,	No linear change	Not available	Decreased
	juice, d	luring th	ne 7 days	s before	the surv	vey)  or drank	100% fi	ruit juic	es one o		7.0	7.8	10.0		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. \*Based on t-test analysis, p < 0.05.

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

				Н	ealth R	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	<del>_</del>		
				s who at						or more	times p	er day (	such as				
											31.8	27.0	26.2	28.0	Decreased, 2013-2018	Not available§	No change
ON71:	D				-					-							:
QIV/I:	Percenta	age of si	udents	who did	not eat	green sa	alad (on	e or mo	re times	during	the 7 da	ys befo	re the si	urvey)			
QIV/I:	Percent	age of si	udents	who did	not eat	green sa	alad (one	e or mo	re times	during	the 7 da	ays befo 41.9	re the si 44.5	42.5	Increased, 2013-2018	Not available	No change
				who did							37.5	41.9	44.5	42.5	Increased, 2013-2018	Not available	No change
											37.5	41.9	44.5	42.5	Increased, 2013-2018 Increased, 2013-2018	Not available  Not available	No change
QN72:	Percenta	age of si	udents		not eat	potatoes	s (one or	r more t	imes du	ring the	37.5 7 days 33.9	41.9 before t 38.4	44.5 the surv 37.9	42.5 ey) 41.3			

<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.

				Н	ealth Ri	sk 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			
QN74: survey)	Percenta	nge of st	udents v	who did	not eat	other ve	getable	s (one o	r more t	imes du	iring the	7 days	before t	he			
											17.1	18.7	19.0	17.4	No linear change	Not available <sup>§</sup>	No change
	G0: Pero											ng Frenc	h fries,	fried			
											6.9	8.6	9.0	8.3	No linear change	Not available	No change
		:	C + 1		ete veg	atables (	one or n	nore tim	es ner d	av (gree	en salad	, potato	es [exclu	ıding			
	G1: Pero fries, frie																

<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.

J	<b>Ianage</b> r	nent an	.u 210u	-		sk Beh	avior ar	nd 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	_		
QNVEO																	
											29.2	25.0	22.9	25.9	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QNVEO [excludi survey)		_			_				•					the			
•											14.7	13.6	12.1	12.9	No linear change	Not available	No change
										-		<u> </u>	Pensi c	or.			
QN75: Sprite, 1										or pop	(such a	is Coke,	r epsi, e	,1			

<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	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	<u> </u>		
										or pop one				ny			
										days before	fore the			12.8	Decreased, 2013-2018	Not available <sup>§</sup>	Decrease
such as (	Coke, F	Pepsi, or	Sprite,	ents wh	nting die	et soda (	or diet p	oop, duri	of soda o	days before	20.5 o or mo	19.0  ore time	16.7	12.8	Decreased, 2013-2018	Not available <sup>§</sup>	Decreas

<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	d Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change fron 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	-		
QN78: kind of j days bef	physical	activity															
											40.5	36.7	36.8	40.7	No linear change	Not available§	No change
QNPA0 1 day (in during th	n any ki	nd of ph	ysical a	ctivity tl													
											15.5	18.1	18.1	17.0	No linear change	Not available	No change
QNPA7 kind of j	physical	activity															

<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	Activity	,		н	ealth R	isk Beh	avior ar	nd Perc	entages	1					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>		2020 2020
QN79:	Percent	age of s	tudents	who wa	tched te	levision	3 or mo	ore hour	s per da	y (on ar	n averag	e schoo	l day)				
											30.3	26.2	22.1	19.3	Decreased, 2013-2018	Not available§	Decreased
QN80: (countin Instagra	g time s	spent on	things	such as	Xbox, P	layStati	on, an il	Pad or o	ther tab	let, a sn	nartphoi	ne, texti	ng, Ŷou	Tube,			
											34.5	38.6	39.1	41.0	Increased, 2013-2018	Not available	No change
QN81: week wl					ended pl	hysical e	ducatio	n (PE) c	classes o	on 1 or r	nore da	ys (in aı	n averag	ge .			
											48.8	43.5	45.7	47.9	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 High School Survey Anne Arundel County Trend Analysis Report**

Total

				H	ealth Ri	isk Beha	avior ar	nd Perco	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-201
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
									2007	2011	2010						
					o attend	ded phys	sical edu	cation (	-		-						
			e of stud		o attend	ded phys	sical edu	cation (	-		-				No linear change	Not available <sup>§</sup>	No chang
					o attenc	ded phys	sical edu	ication (	-		all 5 day	/s (in ar	averag	ge	No linear change	Not available <sup>§</sup>	No chang
N83: 1	Percenta	were i	n school	who had	a conci	ded phys			(PE) cla	sses on a	all 5 day 4.6	ys (in ar 3.0	averag	ge 4.3	No linear change	Not available <sup>§</sup>	No chan

<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																	
				Н	ealth Ri	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			
QN86: I						ist (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or oth	er dent	al work	,			
uaring ti			orore the	, survey	,							76.5	76.4	76.3	No linear change	Not available <sup>§</sup>	No change
QNNOD work)	ONT: P	ercentag	ge of stu	dents w	ho neve	r saw a	dentist (	for a ch	eck-up,	exam, to	eeth cle	aning, o	or other	dental			.,
work)												1.9	1.7	2.5	No linear change	Not available	No change
QN87: 1	Percenta	age of st	tudents v	who had	l ever be	een told	by a doc	ctor or n	urse tha	at they h	ad asth	ma					

<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 High School Survey Anne Arundel County Trend Analysis Report**

Total

Site-Add	ed			Н	ealth R	isk Beha	avior aı	nd Perc	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	_		
QN90:	Percent	age of s	tudents	who are	transge	nder							3.3	1.8	Decreased, 2016-2018	Not available <sup>§</sup>	Decreased
						cell pho			ng (on at	least 1	day dur	ing the 3	-	31.7	No linear change	Not available	No change
QN94:	Percent	age of s	tudents	who smo	oked a v	whole ci	garette l	pefore a	ge 13 ye	ears (for	the firs	t time) 8.0	7.5	4.1	Decreased, 2013-2018	Not available	Decreased
QN98: day dur						bacco in	a hooka	ah, narg	hile, or	other ty	pe of wa	aterpipe	(on at le	east 1 4.2	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.

'otal ite-Addo	ed			Н	ealth R	isk Beha	avior an	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	3		
QN99: vapor pr											flavor v	with an	electron	ic			
												94.2	96.0	97.3	No linear change	Not available <sup>§</sup>	No change
QN101: oil, or T			students	s who ha	ave ever	used an	electroi	nic vapo	or produ	ct to sm	oke ma	rijuana,	THC o	r hash			
													10.4	15.3	Increased, 2016-2018	Not available	Increased
QN102: little cig				s who th	ink they	definite	ely or pr	obably	will smo	oke a ciş	garette,	cigar, c	igarillo,	or			
													20.9	14.1	Decreased, 2016-2018	Not available	Decreased
QN103: flavored survey)															,		
,											13.2	12.8	8.6	4.7	Decreased, 2013-2018	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 High School Survey Anne Arundel County Trend Analysis Report**

Total

				Н	ealth Ri	sk Beha	avior ar	d Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 <sup>†</sup>
1991 1993	19	95	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN104: Percethe survey)	entage	e of st	udents	who tri	ed or us	ed tobac	eco prod	lucts for	the firs	t time (d	during t	he 12 n	nonths b	efore			
												12.4	9.6	7.2	Decreased, 2014-2018	Not available <sup>§</sup>	Decreased
												2 month	ns befor	e the			
										re the su		2 month	as befor	e the 13.8	Decreased, 2013-2018	Not available	Decreased
survey, among	stude	ents v	vho use	ed tobac	co prod	ucts dur	ing the	12 mont	hs befo	re the su	40.5				Decreased, 2013-2018	Not available	Decreased
QN105: Perce survey, among QN106: Perce	stude	ents v	vho use	ed tobac	co prod	ucts dur	ing the	12 mont	hs befo	rettes or	40.5				Decreased, 2013-2018  Decreased, 2013-2018	Not available  Not available	Decreased
survey, among	stude	ents v	udents	who liv	re with s	someone	e who no	ow smol	ces ciga	re the su	40.5 cigars 39.8	40.5	38.0	13.8			

<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 High School Survey Anne Arundel County Trend Analysis Report

				Не	ealth Ri	sk Beh	avior an	d Perc	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	3		
-	Percen	_			ere in the	e same	room wi	th some	one wh	o was si	moking	(on at l	east on	e dav			
during t	ne / day	s before	e the sur	vey)									31.0	27.0	Decreased, 2016-2018	Not available <sup>§</sup>	Decreased
	: Percen	·			ere taugl	nt in the	ir classe	es about	the dan				31.0	27.0	Decreased, 2016-2018	Not available <sup>§</sup>	Decreased

38.3 36.6 39.5 41.2

25.1 21.8 23.5 27.8 Increased, 2013-2018

No linear change

Not available

Not available

QN117: Percentage of students who say definitely yes or probably yes that young people who smoke have more

QN118: Percentage of students who say definitely yes or probably yes that smoking makes young people look

Total

friends

cool or fit in

No change

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.

Total Site-Adde	ed			н	ealth R	isk Beh	avior aı	nd 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			
QN119: parents i		_						eeking h	elp fron	n one or	more a	dults be	sides th	eir			
•	•		•	•							77.4	77.3	78.0	77.0	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.

Male Injury an	d Viole	nce		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		
QN9: P	_	-					ho had l	been dri	nking al	lcohol (i	in a car	or other	vehicle	e, one			
											20.7	19.4	15.2	13.7	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN10: times du days bef	ring the	30 day:	s before														
											12.2	13.0	8.0	10.3	No linear change	Not available	No change
QN11: the 30 d survey)															,		
Ţ.											38.7	32.2	30.1	30.5	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.

Male Injury ar	nd Viole	nce		Н	ealth R	isk Beha	avior ar	ıd 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			
QN13: day duri						eapon o	n schoo	l proper	ty (such	as a gu	n, knife	, or clul	o, on at l	least 1			
											6.3	5.0	10.7	6.9	No linear change	Not available <sup>§</sup>	Decreased
QN14: or for a													for hur	nting	,		,
													8.6	6.8	No linear change	Not available	No change
QN16: knife, or										on scho	ol prop	erty (suc	ch as a g	un,			
											11.9	9.6	10.0	8.7	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.

Iale njury an	d Viole	ence		Н	ealth Ri	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		
QN18: 1				who we	re in a p	hysical	fight on	school	property	(one o	r more	times du	iring the	e 12	•		
			- 5 /								15.4	14.2	14.0	14.6	No linear change	Not available§	No change
QN22: I someone with an owent out	they wobject o	ere dati r weapo	ng or go on] one o	oing out or more	with [co	ounting uring the	such thi e 12 mo	ngs as b nths bef	eing hit	, slamm	ed into	someth	ing, or i	njured	No linear change	Not available	No change
QN23: 1	Percenta	age of st	tudents	who we	re bullie	d on sch	nool pro	perty (e	ver duri	ng the 1	2 mont	hs before	re the su	rvey)			
											20.2	15.8	17.6	12.0	Decreased, 2013-2018	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.

Aale njury an	d Viole	nce															
				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	<u>-</u>		
QN24: 1 Faceboo											d throug	gh textir	ıg, Insta	gram,			
											12.5	12.3	14.3	9.1	Decreased, 2013-2018	Not available <sup>§</sup>	Decreased
QN25: I											eks in a	row so	that the	y			
											21.4	18.5	22.4	21.6	No linear change	Not available	No change
QN26: 1	Percenta	age of st	udents	who seri	iously c	onsidere	d attem	pting su	icide (e	ver duri	ing the	12 mont	hs befor	e the			:
•											13.9	12.2	14.8	12.0	No linear change	Not available	No change
QN27: 1			udents	who ma	de a pla	n about	how the	y would	l attemp	t suicid	le (durin	ig the 12	2 month	s			
											10.9	9.8	13.7	12.1	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.

Iale obacco	Use																
				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	_		
QN32: Survey)	Percenta	age of s	tudents	who cur	rently s	moked c	igarette	s (on at	least 1 o	lay duri	ing the 3	30 days	before th	ne			
											14.6	12.0	9.2	7.2	Decreased, 2013-2018	Not available <sup>§</sup>	No change
		rcentage survey)		ents wh	o currer	ntly smo	ked ciga	rettes fi	requentl	y (on 20	or mor	re days o	luring th	ne 30	,		
											5.7	3.2	1.4	2.2	Decreased, 2013-2018	Not available	No change
	CIG: In surve		ige of st	udents v	vho curi	rently sn	noked ci	igarettes	s daily (	on all 30	0 days d	luring th	e 30 day	ys	<u> </u>		
											4.1	2.6	1.0	1.8	Decreased, 2013-2018	Not available	No change
	es, vapi	ing pens				n electron h pens [											
	-											42.5	39.7	43.0	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.

Iale 'obacco '	Use																
				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	<del>-</del>		
QN35: a-pipes, Plus, eG	vape pi	pes, vap	ping pen	s, e-hoo	kahs, ar	id hooka	h pens	[such as	blu, NJ								
												24.7	18.1	28.8	Increased, 2014-2018	Not available <sup>§</sup>	Increased
QNFRE during tl					no currei	ntly used	l electro	nic vap	or produ	icts freq	uently (	(on 20 o	or more	days			
												4.4	3.5	10.1	Increased, 2014-2018	Not available	Increased
QNDAY				tudents	who cur	rently us	sed elect	tronic v	apor pro	ducts d	aily (on	all 30 c	lays dui	ring	,		:
												3.4	2.6	7.1	Increased, 2014-2018	Not available	Increased
QNTB5 day duri						smoked	l cigaret	tes or us	sed elec	tronic v	apor pro	oducts (	(on at le	east 1			:
												28.7	21.6	31.0	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.

Male Fobacco	Use			Н	ealth Rì	isk Beha	avior ar	nd 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	201	8		
QN36: (such as survey,	a conve	enience	store, su	ıpermarl	ket, disc	ount sto	re, gas s	station,	or vape	store, d	uring th	e 30 day					
													20.8	19.5	No linear change	Not available§	No change
QN37: dissolva vapor pr	ble toba	cco pro	ducts [si	uch as C	Copenha	gen, Gri	zzly, Sk	coal, or						nic			,
													8.3	6.3	No linear change	Not available	No change
QN38: during the					rently si	noked c	igars (c	igars, ci	garillos	, or little	e cigars.	on at le	east 1 da	ıy			
											16.5	15.8	12.3	8.9	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 High School Survey Anne Arundel County Trend Analysis Report

Male Tobacco Use

Health Risk Behavior and Percentages

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*
Change from 2016-2018†

QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)

21.9 19.6 15.9 12.4 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.

Male Alcohol a	and Oth	er Drug	g Use	Н	ealth Ri	isk Beh	avior aı	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2016-2018 <sup>3</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	8		
QN40:	Percenta	age of st	tudents v	who had	l their fi	rst drink	of alco	hol befo	ore age	13 years	s (other	than a f	ew sips	)			
											23.7	19.9	16.1	17.4	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN41: the 30 d				who cur	rently d	rank alc	ohol (at	least or	e drink	of alcol	hol, on	at least	l day dı	uring			
											33.0	26.3	26.6	25.0	Decreased, 2013-2018	Not available	No change
QN42: female s day duri	students	or five	or more	drinks o	of alcoho												
													15.5	14.2	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 Alcohol a	ınd Oth	er Druş	g Use														
				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	<del>-</del>		
QN45:	Percent	age of st	tudents	who eve	er used r	narijuan	ia (one o	or more	times du	iring the	eir life)						
											37.7	33.1	30.4	27.2	Decreased, 2013-2018	Not available§	No change
QN46:	Percent	age of st	tudents	who trie	d marii	uana for	the firs	t time b	efore ag	e 13 ves	ars						
Q1140.	rereema	age 01 31	iudents	who the	a mary	uunu 101	the ms		crore ug	e is yet	10.0	9.5	9.7	8.0	No linear change	Not available	No change
QN47: survey)	Percent	age of st	tudents	who cur	rently u	sed mar	ijuana (	one or n	nore tim	es durin	ng the 3	0 days b	efore th	ie			
											21.2	21.3	19.1	15.6	Decreased, 2013-2018	Not available	No change
QN48:	Percent	age of st	tudents	who eve	er used s	synthetic	mariju	ana (one	e or mor	e times	during	their life	e)				
												13.5	8.1	9.8	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.

lcohol a	and Oth	er Druş	g Use	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			
different	tly than	how a c	loctor to	who eve	to use i	t (count	ing drug	s such a									
													14.3	13.4	No linear change	Not available§	No change
	Percenta nore tim			who eve	r used c	ocaine (	any fori	m of coo	caine, in	cluding	powder	r, crack,	or freel	base,			
											9.1	8.0	7.2	7.4	No linear change	Not available	No change
	Percenta ring the		tudents	who eve	r used h	neroin (a	lso calle	ed "sma	ck," "jur	nk," or '	'China V	White,"	one or r	nore	<u> </u>		
											6.9	6.1	6.2	6.8	No linear change	Not available	No change
				who eve			hetamir	nes (also	called	"speed,	" "crysta	al meth,	" "crank	-,"	<u> </u>		
											6.6	6.1	5.6	6.5	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 R	isk Beh	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	201	8		
ON54:	Percenta	age of s	tudents	who eve	r used e	ecstasy (	also call	led "MD	MA," c	one or m	ore tim	nes duri	ng their	life)			
Z1 10																	
21.0.11											10.9	8.9	7.4	8.1	Decreased, 2013-2018	Not available <sup>§</sup>	No change
															Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN56: 1						ed any il	legal dr	ug (used	l a need	le to inj					Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN56: 1						ed any il	legal dr	ug (used	l a need	le to inj					Decreased, 2013-2018  No linear change	Not available <sup>§</sup> Not available	No change
QN56: 1	e or mo	age of s	s during	their lif	Fe)						ect any	illegal 4.3	drug int	o their 7.3			

<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 High School Survey Anne Arundel County Trend Analysis Report**

Male

				Н	ealth R	isk Beh	avior aı	nd Perc	entages	1					Linear Change*	Quadratic Change*	Change from 2016-2018 $^{\dagger}$
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN58:	Percent	age of s	tudents	who eve	r had se	exual int	ercourse	2			39.0	33.3	37.6	34.6	No linear change	Not available <sup>§</sup>	No change
QN59:	Percent	age of s	tudents	who had	l sexual	intercou	irse for	the first	time be	fore ag	e 13 yea	6.2	6.4	6.6	No linear change	Not available	No change
QN60:	Percent	age of s	tudents	who had	l sexual	intercou	ırse with	n four o	r more p	persons	during t	their life	9.8	10.8	No linear change	Not available	No change
QN61: during the					re curre	ntly sex	ually act	ive (had	d sexual	interco	ourse with	th at lea	st one po	erson, 24.6	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.

Male Sexual Be	ehavior	s		Н	ealth R	isk Beh	avior aı	nd 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	i		
QN62: I					nk alcol	hol or us	sed drug	s before	last sex	cual inte	ercourse	e (amon	g studen	ts			
											30.8	33.5	24.0	22.6	Decreased, 2013-2018	Not available§	No change
QN63: 1				who use	ed a cond	dom dur	ring last	sexual i	ntercou	rse (am	ong stud	dents w	no were				
											65.9	65.0	60.4	60.7	No linear change	Not available	No change
QN64: I							oills bef	ore last	sexual i	ntercou	rse (to p	prevent	pregnan	cy,			
											17.0	13.7	23.8	29.2	Increased, 2013-2018	Not available	No change
QNIUD or Nexp																	
uctive)											0.2	0.6	3.8	0.7	Increased, 2013-2018	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.

				Н	ealth Ri	sk Beha	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	<u> </u>		
QNSHP control i	ring (suc	ch as Nu	vaRing)														
											3.9	1.0	2.0	4.1	No linear change	Not available§	No change
QNOTH			on or N	explano	n); or a	shot (su	ch as D	epo-Pro	vera), pa	atch (su	ch as O	rthoEvi	a), or b				
implant control i currently	ring (suc	ch as Nu		before	last sex	ual intei	course	to previ	F8	•	21.2	15.2	29.6	34.0	Increased, 2013-2018	Not available	No change
QNDUA pills; an Depo-Pr	ring (suc	Percentauch as M	e)  age of st  lirena or  uch as C	udents v ParaGa OrthoEv	who use ard) or i ra), or b	d both a	condon (such as trol ring	n during Implan	; last sex on or Ne	cual inte	21.2 ercourse	e and bir	th contract	ol	Increased, 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 High School Survey Anne Arundel County Trend Analysis Report**

Male

				H	ealth Ri	isk 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			
						not use			prevent	pregnan	ıcy duri	ng last s	exual				
						not use y sexual			prevent	pregnan				7.9	No linear change	Not available <sup>§</sup>	No change
									prevent	pregnan	ncy duri 12.9	ng last s	exual 9.8	7.9	No linear change	Not available <sup>§</sup>	No change
ntercour	rse (amo	ong stud	lents wh	o were	currently		ly active	e)	_		12.9	14.2	9.8		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.

				Н	ealth Ri	isk Beha	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	_		
	T: Perce											tile for	body ma	ıss			
											16.0	14.1	14.0	14.8	No linear change	Not available <sup>¶</sup>	No change
	ESE: Pe								le for be	ody mas	ss index	, based	on sex-	and	,		
											15.3	14.3	17.4	15.5	No linear change	Not available	No change
QN67:	Percenta	ige of st	udents v	vho des	cribed t	hemselv	es as sli	ghtly or	very ov	verweig	ht		•		,		
											24.3	22.8	25.2	27.4	No linear change	Not available	No change
		ago of st	udents v	who did	not drir	nk fruit j	uice (10	00% frui	t juices	one or i	more tir	nes dur	ing the	days			
	Percenta he surve																

<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>lt;sup>§</sup>Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

1999 2001 2003 20 who did not eat fruit (one or			<b>2011</b> he 7 da	2013	2014	2016	2018	<u> </u>		
who did not eat fruit (one or	or more times o	during t	he 7 da	ys befo	re the si		•			
						ırvey)				
				17.7	16.7	20.1	17.1	No linear change	Not available§	No change
s who did not eat fruit or dr	rink 100% frui	it juices	s (such	as orang	ge juice	, apple j	uice,			,
s before the survey)				8.5	9.2	11.4	8.1	No linear change	Not available	Decreased
s v		who ate fruit or drank 100% fruit juices		who ate fruit or drank 100% fruit juices one or more t	8.5 who ate fruit or drank 100% fruit juices one or more times pe	8.5 9.2 who ate fruit or drank 100% fruit juices one or more times per day (s	8.5 9.2 11.4 who ate fruit or drank 100% fruit juices one or more times per day (such as	8.5 9.2 11.4 8.1 who ate fruit or drank 100% fruit juices one or more times per day (such as	8.5 9.2 11.4 8.1 No linear change who ate fruit or drank 100% fruit juices one or more times per day (such as	8.5 9.2 11.4 8.1 No linear change Not available who ate fruit or drank 100% fruit juices one or more times per day (such as

<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 Weight M	<b>Ianage</b> i	ment ar	nd Dieta	ıry Beha	aviors												
				Н	ealth R	isk Beh	avior aı	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 $^{\dagger}$
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
QNFR2: orange j										or more	times p	er day (	such as				
											31.5	28.3	27.1	28.5	No linear change	Not available§	No change
QN71: 1	Percent	age of s	tudents	who did	not eat	green sa	alad (on	e or mo	re times	during	the 7 da	ays befo	re the si	ırvey)			
											42.9	44.7	48.6	48.7	Increased, 2013-2018	Not available	No change
QN72:	Percent	age of s	tudents	who did	not eat	potatoe	s (one o	r more t	imes du	ring the	7 days	before t	he surv	ey)			,
											32.6	35.7	36.9	42.3	Increased, 2013-2018	Not available	No change
QN73:	Percent	age of s	tudents	who did	not eat	carrots	(one or	more tir	nes duri	ng the 7	days b	efore th	e surve	y)	,		,
											48.1	48.4	52.1	49.5	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	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			
QN74: survey)	Percenta	age of st	udents	who did	not eat	other ve	getable	s (one o	r more t	imes du	iring the	e 7 days	before	the			
•											20.2	19.2	21.8	19.9	No linear change	Not available§	No change
	60: Perc											ng Fren	ch fries,	fried			,
											8.3	8.8	11.0	10.1	No linear change	Not available	No change
	31: Pero																
i iciicii i	1105, 1110	ed potat	ocs, or p	otato ci	inpsj, ca	11013, 01	Other v	egetable	o, durin	ig the 7	days oc	iore une	sui vey	,			

<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 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	<del>_</del> ;		
QNVEC French f																	
											29.4	26.9	23.8	27.3	No linear change	Not available§	No change
QNVEC [excludi survey)														the 13.2	No linear change	Not available	No change
[excludi	ng Fren	age of si	, fried po	who did	or potat	o chips]	, carrots	or glass	er veget	ables, d	uring th	ne 7 day 15.1	s before	13.2	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.

				Н	ealth R	isk Beh	avior a	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		
_		U				c a can, l let soda	,	_						ay			

<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	Activity			Н	ealth Ri	isk Beha	avior an	nd Perc	entages						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: kind of j	physical	activity															
·		•									46.7	42.6	43.2	46.5	No linear change	Not available§	No change
QNPA0 1 day (in during t	n any kii	nd of ph	ysical a	ctivity tl							reathe h	ard som	e of the	time	No Proceedings	No. and Table	No dono
											13.3	16.0	15.6	14.1	No linear change	Not available	No change
QNPA7																	
kind of j days bef				i casca i	men nea	ari rate a	ma maa	e mem	breame	nara so	me or u	ne time	Julilig t	110 7			

<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.

Physical A	Activity	,		Н	ealth Ri	isk Beh	avior ar	nd Perc	entages						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		
QN79: 1	Percenta	age of st	udents v	who wat	tched tel	levision	3 or mo	ore hour	s per da	y (on ar	averag	e schoo	l day)				
											30.4	25.9	21.3	18.8	Decreased, 2013-2018	Not available§	No change
QN80: 1 (countin Instagran	g time s	pent on	things s	such as 2	Xbox, P	layStati	on, an il	Pad or o	ther tab	let, a sn	nartphoi on an av	ne, texti erage s	ng, Ŷou chool da	Tube, ay)			
											36.9	39.7	42.2	43.5	Increased, 2013-2018	Not available	No change
QN81: I week wh					ended ph	nysical e	education	n (PE) c	lasses o	n 1 or n	nore da	ys (in ar	n averag	ge			
											56.8	48.0	52.0	54.4	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 High School Survey Anne Arundel County Trend Analysis Report**

Male **Physical Activity** Linear Change\* **Health Risk Behavior and Percentages** 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)

5.9

3.3

4.5

5.5

No linear change

QN83: 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)

> 19.5 20.6 No linear change Not available No 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 High School Survey **Anne Arundel County Trend Analysis Report**

Male

				Н	ealth Ri	isk Beha	ivior 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			
QN86: 1						st (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or oth	er denta	al work,				
				, , , , , , , , , , , , , , , , , , , ,	,							74.4	73.5	75.0	No linear change	Not available§	No change
QNNOL	NT: Pe	ercentag	e of stu	dents wl	ho neve	r saw a o	lentist (	for a ch	eck-up,	exam, t	eeth clea	aning, o	or other	dental	,		,
QNNOI work)	ONT: Pe	ercentag	e of stud	dents wl	ho neve	r saw a o	lentist (	for a ch	eck-up,	exam, t	eeth clea	aning, o	or other	dental 3.5	No linear change	Not available	No change
	ONT: Pe	ercentag	e of stu	dents wl	ho neve	r saw a o	lentist (	for a ch	eck-up,	exam, t	eeth clea				No linear change	Not available	No change
												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.

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

Male

Site-Add	ed																
				Н	ealth R	isk Beha	avior aı	nd Perc	entages						Linear Change*	Quadratic Change*	Change from 2016-2018 $^{\dagger}$
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN90:	Percenta	age of s	tudents	who are	transge	nder							4.2	2.2	Decreased, 2016-2018	Not available <sup>§</sup>	Decreased
QN93: before th	Percenta he surve	age of s	tudents ng stude	who talk nts who	ced on a drove a	cell pho car or o	one whil	le drivin nicle)	g (on at	least 1	day dur	ing the	30 days 32.1	33.0	No linear change	Not available	No change
QN94: 1	Percenta	age of s	tudents	who sm	oked a v	whole ci	garette l	pefore a	ge 13 ye	ears (for	the firs	t time)	8.7	5.6	Decreased, 2013-2018	Not available	Decreased
QN98: day duri						oacco in	a hooka	nh, narg	hile, or o	other typ	e of wa	aterpipe	(on at le	east 1 5.8	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.

Aale Site-Adde	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	3		
QN99: 1											flavor v	with an o	electron	ic			
												93.7	95.1	95.8	No linear change	Not available§	No change
QN101: oil, or T			students	s who ha	ave ever	used an	electro	nic vapo	or produ	ct to sm	noke ma	rijuana,	THC o	r hash			
													11.5	15.6	Increased, 2016-2018	Not available	Increased
QN102:		_		s who th	ink they	definite	ely or pr	obably	will smo	oke a ci	garette,	cigar, c	igarillo,	or			
													22.8	16.7	Decreased, 2016-2018	Not available	Decreased
QN103: flavored survey)															-		
• /											16.2	16.1	10.1	6.1	Decreased, 2013-2018	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.

Male Site-Add	ed																
				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	3		
QN104:		tage of	students	s who tr	ied or us	sed toba	cco prod	lucts for	the firs	t time (	during t	he 12 m	onths b	efore			
the surv	cy)											13.4	8.7	5.5	Decreased, 2014-2018	Not available <sup>§</sup>	Decreased
QN105: survey,												2 month	s before	e the			,
											40.6	40.1	37.7	18.5	Decreased, 2013-2018	Not available	Decreased
QN106:	Percen	tage of	students	s who liv	ve with	someon	e who n	ow smo	kes ciga	rettes or	r cigars						<del>.</del>
											40.0	37.3	33.1	24.8	Decreased, 2013-2018	Not available	Decreased
QN107: allowed										home i	s that si	moking	is not				
													79.2	82.6	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.

Not enough years of data to calculate.

Male Site-Adde	ed																
				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	3		
QN108: during tl					ere in th	e same	room wi	ith some	eone wh	o was s	moking	g (on at l	least one	e day			
													28.7	26.9	No linear change	Not available§	No change
QN110: school y		tage of	students	s who w	ere taug	ht in the	eir classe	es about	the dan	gers of	tobacco	o use (d	uring th	e last			
											74.9	64.8	65.4	63.5	Decreased, 2013-2018	Not available	No change
QN117: friends	Percen	tage of	students	s who sa	y defini	tely yes	or prob	ably yes	s that yo	oung peo	ople wh	io smok	e have n	nore			-
											40.1	38.3	43.2	43.4	No linear change	Not available	No change
QN118: cool or f		tage of	students	s who sa	y defini	tely yes	or prob	ably yes	s that sn	noking r	nakes y	young p	eople lo	ok			
											29.1	23.5	28.0	30.8	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.

Not enough years of data to calculate.

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

Male Site-Added

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

QN119: Percentage of students who would feel comfortable seeking help from one or more adults besides their

75.5 76.0 75.2 75.6 No linear change Not available No change

QN119: 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

<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 Injury ar	nd Viole	ence		Н	ealth R	isk Beh	avior aı	nd Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from
	91 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2015 Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, or														_		2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN9: F							ho had	been dri	nking a	lcohol (i	in a car	or other	r vehicle	e, one			
											21.1	20.6	15.8	16.3	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN10: times du days be	uring the	e 30 day	s before														
•		• /									7.5	7.4	5.4	4.0	No linear change	Not available	No change
QN11: the 30 d survey)																	
											31.5	28.1	30.9	23.8	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.

Female Injury an	y and Violence  Health Risk Behavior and Percentages														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			
QN13: I						eapon o	n schoo	l proper	ty (such	as a gu	ın, knife	e, or clul	o, on at	least 1			
	6				<i>J</i> /						2.7	2.6	4.1	2.2	No linear change	Not available§	Decreased
	14: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting for a sport such as target shooting, on at least 1 day during the 12 months before the survey)  2.2 1.0														No linear change	Not available	Decreased
QN16: 1 knife, or										on scho	ol prop	erty (suc	ch as a g	un,			
											8.0	5.4	5.0	5.8	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.

ijury an	Health Risk Behavior and Percentages  991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 201														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	-		
	Percenta before th			who wer	re in a p	hysical	fight on	school	property	(one o	r more	imes du	ring the	2 12			
											8.7	6.8	7.6	6.9	No linear change	Not available§	No change
someone with an	Percental ethey woobject on the with so	ere dati r weapo	ng or go n] one o	oing out or more	with [co	ounting uring the	such thi e 12 mo	ngs as b nths bef	eing hit	, slamm	ed into	someth	ing, or i	njured			
											14.2	12.6	11.3	11.6	No linear change	Not available	No change
QN23:	Percenta	age of st	udents v	who wer	re bullie	d on scl	nool pro	perty (e	ver duri	ng the 1	2 mont	hs befor	e the su	rvey)			

<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.

Temale Injury an	d Viole	ence															
				Н	ealth R	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	_		
QN24: 1 Faceboo											d throug	gh textir	ıg, Insta	ıgram,			
											19.7	18.4	19.2	16.5	No linear change	Not available§	No change
QN25: I											eks in a	row so	that the	УУ			
											34.1	36.3	42.2	41.7	Increased, 2013-2018	Not available	No change
QN26: 1	Percenta	age of st	tudents	who seri	iously c	onsidere	ed attem	pting su	icide (e	ver duri	ng the	12 mont	hs before	re the	,		
											19.5	21.6	24.1	24.4	Increased, 2013-2018	Not available	No change
QN27: I before the			tudents	who ma	de a pla	n about	how the	y would	l attemp	t suicid	e (durin	ig the 12	2 month	S			
											14.8	17.5	19.2	20.7	Increased, 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.

Temale Tobacco U	U <b>se</b>																
				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	<del>-</del>		
QN32: I survey)	Percent	age of s	tudents	who cur	rently s	moked o	eigarette	s (on at	least 1	day duri	ing the 3	30 days	before t	he			
											12.1	9.0	8.6	4.5	Decreased, 2013-2018	Not available <sup>§</sup>	Decreased
QNFRC				ents wh	o currer	ntly smo	ked ciga	arettes fi	requentl	y (on 20	or mo	re days o	during t	he 30			
											3.4	1.9	1.6	1.9	No linear change	Not available	No change
QNDAY before th			ige of st	udents v	vho curi	rently sr	noked c	igarettes	s daily (	on all 3	0 days c	luring th	e 30 da	ys			,
											2.6	1.5	1.1	1.4	No linear change	Not available	No change
QN34: I vape pip eGo, and	es, vapi	ing pens															
coo, and	111010]	,										42.7	39.7	45.2	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.

emale obacco	Use																
				Н	ealth R	isk Beh	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			
QN35: e-pipes, Plus, eG	vape pi	pes, var	oing pen	s, e-hoo	kahs, ar	nd hooka	h pens	[such as	blu, NJ								
												20.6	16.2	30.6	Increased, 2014-2018	Not available§	Increased
QNFRE during the					o curre	ntly used	l electro	nic vap	or produ	icts freq	uently (	(on 20 o	r more	days			
												1.3	1.6	5.7	Increased, 2014-2018	Not available	Increased
QNDAY the 30 d				tudents	who cur	rently us	sed elect	tronic v	apor pro	ducts d	aily (on	all 30 d	lays dur	ring			
												0.9	1.3	4.1	Increased, 2014-2018	Not available	Increased
QNTB5 day duri						smoked	cigaret	tes or us	sed elec	tronic v	apor pro	oducts (	on at le	east 1			
												24.1	20.4	31.6	Increased, 2014-2018	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 Tobacco	Use			н	ealth R	isk Beh:	avior ar	nd Perce	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from
	Health Risk Behavior and Percentages  991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 201														zmem emmge	Quiunuio Oningo	2016-2018 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN36: (such as survey,	a conve	enience	store, su	ıpermarl	ket, disc	ount sto	re, gas s	station, d	or vape	store, di	uring th	e 30 day					
													7.7	8.5	No linear change	Not available <sup>§</sup>	No change
QN37: dissolva vapor pi	ble toba	cco pro	ducts [s	uch as C	Copenha	gen, Gri	zzly, Sk	coal, or (						nic	,		-
													3.2	1.1	Decreased, 2016-2018	Not available	Decreased
QN38: during t					rently si	moked c	igars (c	igars, ci	garillos,	, or little	e cigars,	on at le	east 1 da	у			
											8.2	9.3	8.0	2.9	Decreased, 2013-2018	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 High School Survey Anne Arundel County Trend Analysis Report**

Female **Tobacco Use** 

**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 QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey) Decreased, 2013-2018 Not available§ 15.4 14.6 12.9 6.1 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.

Female Alcohol a	Health Risk Behavior and Percentages														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	3		
QN40:	Percenta	age of s	tudents	who hac	l their fi	rst drink	of alco	hol befo	ore age	13 years	s (other	than a f	ew sips	)	,		
											17.7	15.2	15.1	13.1	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN41:				who cur	rently d	rank alc	ohol (at	least or	ne drink	of alcol	hol, on	at least	l day dı	ıring			
the 30 d	ays bero	ore the s	urvey)								36.1	33.9	32.7	29.3	Decreased, 2013-2018	Not available	No change
QN42:	Percenta	age of s	tudents	who cur	rently w	ere bing	ge drink	ing (had	l four or	· more d	rinks of	f alcoho	l in a ro	w for			
female s day duri	tudents	or five	or more	drinks o	of alcoho												
													18.0	14.6	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.

Female Alcohol a	and Oth	er Druş	g Use	Н	ealth R	isk Beh	avior ar	nd 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	_		
QN45:	Percent	age of s	tudents	who eve	er used r	narijuan	a (one o	or more	times du	aring the	eir life)						
											35.2	34.4	33.5	33.4	No linear change	Not available§	No change
QN46:	Percent	age of s	tudents	who trie	d marij	uana for	the first	t time b	efore ag	e 13 yea	ars	-					
											5.7	5.7	5.6	4.1	No linear change	Not available	No change
QN47: survey)	Percenta	age of s	tudents	who cur	rently u	sed mar	ijuana (d	one or n	nore tim	es durir	ng the 3	0 days l	pefore th	ne			
• /											18.0	20.4	20.7	18.9	No linear change	Not available	No change
QN48:	Percenta	age of s	tudents	who eve	er used s	synthetic	marijua	ana (one	e or mor	e times	during	their life	e)				
												9.4	6.1	4.5	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.

Female Alcohol a	nd Oth	er Dru	g Use														
				Н	ealth R	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	3		
QN49: different	ly than	how a c	doctor to	old them	to use i	it (count	ing drug	gs such a									
													15.3	13.8	No linear change	Not available§	No change
QN50: I		_			er used o	cocaine (	any fori	m of coo	caine, in	cluding	powde	r, crack,	, or free	base,			
											5.0	4.6	3.5	2.6	Decreased, 2013-2018	Not available	No change
QN52: I			tudents	who eve	er used h	neroin (a	lso calle	ed "sma	ck," "jui	nk," or '	"China '	White,"	one or i	more			
											3.4	1.9	2.4	1.4	Decreased, 2013-2018	Not available	No change
QN53: I							hetamir	nes (also	called	"speed,	" "cryst	al meth,	" "cranl	ς,"			
											3.5	2.1	2.7	2.2	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 Alcohol a	nd Oth	er Drug	g Use														
				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	<del>-</del>		
QN54:	Percent	age of s	tudents	who eve	r used e	cstasy (	also call	ed "MD	MA," c	one or m	ore tim	es durir	g their	life)			
											7.1	5.1	3.8	3.2	Decreased, 2013-2018	Not available§	No change
QN56:						ed any il	legal dr	ug (usec	l a need	le to inj	ect any	illegal	drug into	o their			
body, or	ne or mo	ore time	s during	their iii	re)						2.5	2.4	2.7	2.5	No linear change	Not available	No change
QN57: months		_		who we	re offere	ed, sold,	or give	n an ille	gal drug	g on sch	ool prop	perty (d	uring th	e 12			
											25.8	26.8	25.6	22.6	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 High School Survey Anne Arundel County Trend Analysis Report**

**Female Sexual Behaviors 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 QN58: Percentage of students who ever had sexual intercourse 39.0 32.3 31.6 Decreased, 2013-2018 Not available§ No change QN59: Percentage of students who had sexual intercourse for the first time before age 13 years 2.9 2.2 1.8 No linear change Not available No change 1.6 QN60: Percentage of students who had sexual intercourse with four or more persons during their life No change 11.1 6.4 7.0 Decreased, 2013-2018 Not available QN61: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey) 30.1 24.9 25.9 24.1 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.

Temale Sexual Be	ehavior	s															
				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			
QN62: I who wer					nk alcol	hol or us	sed drug	s before	last sex	kual inte	ercourse	e (amon	g studei	nts			
											23.5	24.6	20.7	18.8	No linear change	Not available§	No change
QN63: I				who use	ed a con	dom dur	ring last	sexual i	intercou	rse (am	ong stu	dents w	ho were	:			
											55.3	59.5	50.6	55.4	No linear change	Not available	No change
QN64: I among s							pills bef	ore last	sexual i	ntercou	rse (to p	orevent	pregnan	icy,			
											24.9	22.6	28.4	28.9	No linear change	Not available	No change
QNIUDI or Nexpl active)																	
/											2.5	1.7	4.7	4.1	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.

emale exual B	ehaviors	S		н	ealth Ri	isk Beh:	avior aı	nd Perce	entages						Linear Change*	Ouadratic Change <sup>*</sup>	Change from
						on Den		14 1 010	circuges						Emeur Change	Quaurum change	2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
control	PARG: I ring (suc y sexual	ch as Nu	vaRing)														
											3.6	6.3	4.0	4.2	No linear change	Not available§	No change
implant control	HHPL: I (such as ring (suc y sexual	i Implan h as Nu	on or NovaRing)	explano	n); or a	shot (su	ich as D	epo-Pro	vera), p	atch (su	ich as C	)rthoEv	ra), or b				
	,	-5	-,								31.0	30.7	37.0	37.2	No linear change	Not available	No change
	ALBC: I	ich as M	Iirena oi uch as C	r ParaGa OrthoEv	ard) or i ra), or b	mplant oirth con	(such as trol ring	Implan g (such a	on or Nas Nuval	expland	on); or a	shot (s	uch as				
Depo-Pr (to prev	ent preg	nancy, a	mong st	tudents	who we	re curre	ntly sex	ually ac	tive)								

<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 High School Survey Anne Arundel County Trend Analysis Report**

**Female Sexual Behaviors** Linear Change\* **Health Risk Behavior and Percentages** Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QNBCNONE: Percentage of students who did not use any method to prevent pregnancy during last sexual intercourse (among students who were currently sexually active)

done if they donated blood) 12.6 13.2 15.6 No linear change Not available No change

15.4 12.7 12.3

9.6

No linear change

QN84: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests

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	isk Beha	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	_		
QNOW index, b												tile for t	ody ma	ss			
											13.2	13.9	15.0	17.3	Increased, 2013-2018	Not available <sup>¶</sup>	No change
	ESE: Pe								le for bo	ody mas	ss index	, based	on sex-	and	<u> </u>		,
											8.7	8.7	9.1	9.6	No linear change	Not available	No change
QN67:	Percenta	age of st	udents	who des	cribed t	hemselv	es as sli	ghtly or	very ov	erweigl	ht						
QN67:	Percenta	age of st	udents v	who des	cribed t	hemselv	es as sli	ghtly or	very ov	Ū	ht 33.6	30.0	34.6	32.9	No linear change	Not available	No change
QN69:	Percenta Percenta he surve	age of st									33.6				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>lt;sup>§</sup>Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

				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	<del>_</del>		
QN70:	Percenta	age of st	udents v	who did	not eat	fruit (or	ne or mo	ore times	during	the 7 da	ays befo	ore the s	urvey)				
											11.9	15.4	14.1	11.7	No linear change	Not available§	No change
			students				r drink	100% fr	uit juice	es (such	as oran	ge juice	, apple j	uice,			
			students e 7 days				r drink	100% fr	uit juice	es (such	as oran	ge juice	, apple j	uice,	No linear change	Not available	N
							r drink	100% fr	uit juice	es (such					No linear change	Not available	No
or grape  QNFR1	juice, d	uring th		s before	the surv	vey) or drank	100% fi	ruit juic	es one o		5.4	6.4	8.5		No linear change	Not available	No cha

<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 Weight M	Ianage	ment ar	nd Dieta	-	aviors 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			
QNFR2: orange j										or more	times p	er day (	such as				
											32.2	25.8	25.0	27.6	No linear change	Not available§	No change
QN71: 1	Percent	age of s	tudents	who did	not eat	green sa	alad (on	e or mo	re times	during	the 7 da	ays befo	re the si	urvey)			
											32.4	39.4	40.5	37.3	No linear change	Not available	No change
QN72: 1	Percent	age of s	tudents	who did	not eat	potatoe	s (one or	r more t	imes du	ring the	7 days	before	he surv	ey)	<u> </u>		
											35.2	40.9	38.6	41.0	No linear change	Not available	No change
QN73: 1	Percent	age of s	tudents	who did	not eat	carrots	(one or	more tir	nes duri	ng the 7	days b	efore th	e surve	y)	<u>,                                      </u>		
											48.6	54.2	55.0	52.8	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.

				Н	ealth Ri	sk Beha	avior ar	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			
QN74: survey)	Percenta	age of st	udents v	who did	not eat	other ve	getable	s (one or	r more t	imes du	ring the	7 days	before t	he			
											14.1	18.2	16.2	15.2	No linear change	Not available <sup>§</sup>	No change
	GO: Perc											g Frenc	h fries,	fried			
											5.5	8.3	7.1	6.8	No linear change	Not available	No change
	31: Perc																

<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	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	_		
												d, potato efore the					
											28.5	22.9	21.8	23.6	Decreased, 2013-2018	Not available§	No change
											20.5	22.)	21.0	23.0	Decreased, 2013-2016	Not available	140 chang
											een sal	ad, potathe 7 days	oes		No linear change	Not available	No chang
[excludi survey) QN75:	ing Fren	ch fries,	fried po	otatoes, who did	or potat	o chips]	, carrots	or glass	er veget	ables, d	een salduring the	ad, potat he 7 days	oes s before 10.5	the 12.2	, 		

<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	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	_		
•						,	,	_		r pop one days bef				ıy	,		
•						,	,	_		days bef	fore the	survey		10.3	Decreased, 2013-2018	Not available <sup>§</sup>	Decreased
Such as O	Coke, F	Pepsi, or	Sprite,	ents wh	nting die	et soda o	or diet p	oop, duri	ng the 7	days bef	fore the	15.1  ore time	14.1 es per da	10.3	Decreased, 2013-2018	Not available <sup>§</sup>	Decrease

<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 Rì	isk Beh	avior ar	nd Perc	entages						Linear Change*	Quadratic Change <sup>*</sup>	Change from
									8						Ş		2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
QN78: kind of j days bef	physical	activity															
											34.8	31.2	30.6	35.2	No linear change	Not available <sup>§</sup>	No change
QNPA0 1 day (in during the	n any kii	nd of ph	ysical a	ctivity t													
											17.6	20.0	20.6	19.3	No linear change	Not available	No change
QNPA7 kind of j days bef	physical	activity															
											16.6	15.7	14.1	14.6	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.

Female Physical	Activity	7		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	<u> </u>		
QN79:	Percenta	age of st	tudents v	who wat	tched te	levision	3 or mo	ore hour	s per da	y (on ar	averag	e schoo	l day)				
											30.3	26.5	23.0	19.7	Decreased, 2013-2018	Not available§	No change
	Percentang time sam, Face	spent on	things s	such as 2	Xbox, P	layStati	on, an il	Pad or o	ther tab	let, a sn	artphor	ne, texti	ng, You chool da	Tube,	No linear change	Not available	No change
QN81: week w					ended ph	nysical e	education	n (PE) c	classes o	n 1 or n	nore day	ys (in aı 39.0	averag	ge 41.6	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 High School Survey Anne Arundel County Trend Analysis Report

Female **Physical Activity** Linear Change\* **Health Risk Behavior and Percentages** 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) Not available§ 3.3 2.5 2.5 3.2 No linear change No change QN83: 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)

15.4 13.3

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 High School Survey Anne Arundel County Trend Analysis Report

				H	ealth Ri	isk Beh	avior ar	nd Perco	entages	5					Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from <b>2016-2018</b>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018			
						st (for a	check-ı	up, exan	n, teeth	cleaning	g, or oth	er dent	al work	,			
QN86: I						st (for a	check-ı	up, exan	n, teeth	cleaning					No linear change	Not available <sup>§</sup>	No change
						st (for a	check-ı	up, exan	n, teeth	cleaning		er dent	al work 79.8	78.4	No linear change	Not available <sup>§</sup>	No change
luring th	ne 12 m	onths be	efore the	survey	)		,					78.8	79.8	78.4	No linear change	Not available <sup>§</sup>	No chang

25.8 25.6 25.4 23.1

No linear change

QN87: Percentage of students who had ever been told by a doctor or nurse that they had asthma

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 High School Survey **Anne Arundel County Trend Analysis Report**

Female

ite-Add	ed			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	_		
QN90:	Percent	age of s	tudents	who are	transge	nder							1.9	0.9	Decreased, 2016-2018	Not available <sup>§</sup>	Decreased
QN93: before the									g (on at	least 1	day dur	ing the	30 days 30.8	29.6	No linear change	Not available	No change
QN94:	Percent	age of s	tudents	who sm	oked a v	whole ci	garette t	pefore a	ge 13 ye	ears (for	the first	t time) 5.4	5.6	2.6	Decreased, 2013-2018	Not available	Decreased
QN98: day duri						oacco in	a hooka	h, narg	hile, or o	other typ	oe of wa	terpipe	(on at le	2.3	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.

				Н	ealth Ri	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	<del>-</del>		
	Percenta roduct (a										flavor v	with an o	electron	ic			
												95.4	97.3	98.5	No linear change	Not available§	No change
	: Percen		students	s who ha	ive ever	used an	electro	nic vapo	or produ	ct to sm	noke ma	rijuana,	THC o	r hash	,		
													9.0	14.7	Increased, 2016-2018	Not available	Increased
	Percengar in the			who th	ink they	definite	ely or pr	obably	will smo	oke a ci	garette,	cigar, ci	igarillo,	or			
													18.7	10.9	Decreased, 2016-2018	Not available	Decreased
ON103:	Percen																

<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.

Temale Site-Addo	ed																
				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	<u> </u>		
QN104:		tage of	students	s who tr	ied or us	sed toba	cco prod	ducts for	r the firs	st time (	during t	he 12 m	onths b	efore			
the surv	~y)											11.4	10.4	8.3	No linear change	Not available§	No change
QN105: survey,												2 month	s before	e the			
											40.8	40.9	37.6	8.7	Decreased, 2013-2018	Not available	Decreased
QN106:	Percen	tage of	students	s who liv	ve with	someon	e who n	ow smo	kes ciga	rettes o	r cigars		,				
											39.5	38.7	34.9	28.3	Decreased, 2013-2018	Not available	Decreased
QN107: allowed										home i	is that s	moking	is not				
													81.3	85.8	Increased, 2016-2018	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 Site-Adde	ed																
				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	3		
QN108: during th					ere in th	ie same	room w	ith some	eone wh	o was si	moking	(on at l	east one	e day			
													33.1	26.4	Decreased, 2016-2018	Not available <sup>§</sup>	Decreased
QN110: school y		tage of	students	who w	ere taug	ht in the	ir classe	es about	the dan	gers of	tobacco	use (d	uring the	e last			
											72.7	62.2	61.7	61.4	Decreased, 2013-2018	Not available	No change
QN117: friends	Percen	tage of	students	who sa	y defini	tely yes	or prob	ably yes	s that yo	ung peo	ple wh	o smok	e have n	nore			
											36.2	34.5	35.5	38.9	No linear change	Not available	No change
QN118: cool or f		tage of	students	s who sa	y defini	tely yes	or prob	ably yes	s that sm	oking r	nakes y	oung pe	eople lo	ok			
											20.7	19.7	18.5	24.2	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.

Not enough years of data to calculate.

Female Site-Adde	ed			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			
QN119:		_						eeking h	elp fron	n one or	more a	dults be	esides th	eir			
•	•		•	•							79.3	78.7	81.3	78.4	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.

White* Injury ai	nd Viol	ence		TH.	Iealth R	lisk Rel	navior a	nd Perc	rentage	c					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from
					cariii N	dsk Dei	14 VIOI 4	nu i civ	cintage	3					Emear Change	Quadratic Change	2016-2018 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<del>-</del>		
QN9: Po							ho had l	een dri	nking al	lcohol (i	in a car	or other	vehicle	e, one	<del>.</del>		
or more	umes u	aring un	2 30 uay	s before	ine sui	vey)					20.6	21.2	14.4	15.8	Decreased, 2013-2018	Not available <sup>¶</sup>	No change
QN10: I times du days bef	ring the	30 days															
days oct	ore the	sur vey)									9.4	9.9	7.4	8.2	No linear change	Not available	No change
		<u> </u>		1			1.1. 1				• • •						
O > T 1 1 T	Percents	ige of st	udents v	vho text	ed or e-	mailed	while di	iving a	car or o	ther ver	ncle (or						
QN11: I the 30 da survey)			urvey, a	mong st				a car or	other v		uring th	ie 30 da	ys befoi	e the			

<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.

njury a	nd Viol	ence		H	Iealth R	tisk Bel	avior 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	_		
					ried a w	eapon o	n school	l proper	ty (such	as a gu	n, knife	, or club	o, on at	least 1	:		
day duri	ng the 3	ou days i	before in	ie surve	у)						3.1	3.2	5.5	2.8	No linear change	Not available <sup>¶</sup>	Decreased
					ried a gu n at leas								for hu	nting	,		
													3.8	2.1	No linear change	Not available	No chang
					re threat g the 12					on scho	ol prope	erty (suc	h as a g	gun,			

<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.

	nd Viol	ence		H	lealth 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	_		
	Percenta before tl			who wer	e in a pl	hysical	fight on	school	property	(one o	r more	times du	ring the	12	,		
											7.5	7.5	8.7	6.4	No linear change	Not available <sup>¶</sup>	No change
someon with an	Percenta e they w object o t with so	ere dati r weapo	ng or go on] one o	ing out or more	with [co	ounting uring the	such thi e 12 mo	ngs as b nths bef	eing hit	, slamm	ned into among	somethi	ng, or in who da	njured ted or	No linear change	Not available	No change
someon with an	e they w object o	ere dati r weapo	ng or go on] one o	ing out or more	with [co	ounting uring the	such thi e 12 mo	ngs as b nths bef	eing hit	, slamm	ed into	someth	ng, or i	njured	No linear change	Not available	No change
someon with an went ou	e they w object o	rere dati r weapo omeone	ng or go on] one o during t	oing out or more he 12 m	with [co	ounting uring the efore the	such thi e 12 mo e survey	ngs as b nths bef	eing hit	, slamm survey,	ed into among 9.9	someth students 10.9	ng, or in who da	njured ted or	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.

Vhite* njury ai	nd Viol	ence															
				F	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	<del>-</del>		
QN24: I											d throug	gh textir	g, Insta	gram,			
											16.6	16.3	19.9	13.6	No linear change	Not available <sup>¶</sup>	Decrease
				who felt							eks in a	row so	that the	У			
											25.4	28.2	33.0	31.4	Increased, 2013-2018	Not available	No chan
QN26: I	Percenta	age of st	tudents	who ser	iously c	onsidere	d attem	pting su	icide (e	ver duri	ing the	12 mont	hs befor	re the			
•											15.1	16.6	19.5	18.3	Increased, 2013-2018	Not available	No chang
QN27: I			tudents	who ma	de a pla	n about	how the	y would	d attemp	t suicid	e (durin	g the 12	2 month	S			,
											11.2	13.3	16.1	15.2	Increased, 2013-2018	Not available	No chan

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

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

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

White\* **Tobacco Use Health Risk Behavior and Percentages** Linear Change<sup>†</sup> **Ouadratic Change**<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) Not available ¶ Decreased 12.5 11.5 8.8 5.7 Decreased, 2013-2018 QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) 4.2 3.0 1.7 Decreased, 2013-2018 Not available No change QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey) 3.0 Not available 2.5 1.2 1.3 Decreased, 2013-2018 No change QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo]) 42.5 40.3 47.0 No linear change Not available Increased

<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.

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

White\* **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 QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey) 23.5 18.8 34.6 Increased, 2014-2018 Not available ¶ Increased QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey) 3.3 2.9 10.8 Increased, 2014-2018 Not available Increased QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey) 2.4 Not available 2.1 7.2 Increased, 2014-2018 Increased QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey) Increased, 2014-2018 Not available 21.9 35.7 Increased

<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 High School Survey Anne Arundel County Trend Analysis Report

White\* **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 QN36: Percentage of students who usually got their own electronic vapor products by buying them in a store (such as a convenience store, supermarket, discount store, gas station, or vape store, during the 30 days before the survey, among students who currently used electronic vapor products and who were aged <18 years) 11.8 14.4 No linear change Not available ¶ No change ON37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey) 5.3 4.1 No linear change Not available No change QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey) 9.8 12.0 9.8 Decreased, 2013-2018 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.

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

Not enough years of data to calculate.

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

White\* 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

QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)

16.8 17.3 13.8 8.4 Decreased, 2013-2018

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.

Alcohol a			8	F	Health 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	<del>-</del>		
QN40: F	Percenta	age of st	tudents	who hac	l their fi	rst drink	of alco	hol befo	ore age 1	13 years	(other	han a fe	w sips)				
											18.0	15.9	14.2	13.4	Decreased, 2013-2018	Not available <sup>¶</sup>	No chang
											10.0	15.7	12	10	Beereuseu, 2013 2010	1 vot u vanuore	1 to vitaing
				who cur	rently d	rank alc	ohol (at	least on	e drink	of alcol						1.01 1.1111020	
QN41: F the 30 da				who cur	rently d	rank alc	ohol (at	least on	ne drink	of alcol	nol, on a	it least 1			No linear change	Not available	
	Percentatudents	age of st	tudents or more	who cur	rently w	vere bing	ge drink	ing (had	four or	more d	37.6	at least 1 34.9 alcohol	day du 34.7	34.0			No char

<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.

White* Alcohol	and Ot	her Dru	ıg Use														
				H	Iealth F	Risk Bel	havior 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	<u> </u>		
QN45:	Percenta	age of s	tudents v	who eve	er used n	narijuan	na (one o	or more	times du	iring the	eir life)						
											34.8	33.5	32.2	29.6	Decreased, 2013-2018	Not available¶	No change
QN46:	Percent	age of s	tudents	who trie	d mariji	uana for	the first	time be	efore ag	e 13 yea	ars	•					
											6.0	6.6	5.6	3.5	Decreased, 2013-2018	Not available	No change
QN47: Survey)	Percent	age of s	tudents	who cur	rently u	sed mar	rijuana (	one or n	nore tim	es durir	ng the 3	0 days t	efore th	ie			
37											19.2	21.4	20.0	16.3	Decreased, 2013-2018	Not available	No change
QN48:	Percent	age of s	tudents v	who eve	r used s	synthetic	mariju:	ana (one	e or mor	e times	during	their life	e)				
												12.2	5.8	4.6	Decreased, 2014-2018	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.

Alconor	lcohol 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	_		
differen	tly than	how a d	octor to	ld them	er took p to use i re times	t (count	ing drug	s such a									
													13.8	11.2	No linear change	Not available¶	No chang
	Percenta nore tim				er used c	ocaine (	any fori	n of coc	caine, in	cluding	powder	r, crack,	or freel	oase,			
)IIC OI I											6.1	6.1	3.9	2.3	Decreased, 2013-2018	Not available	No chang
<i>,</i> 10 01 1																	3 22
QN52:	Percenta		udents v	who eve	er used h	neroin (a	lso calle	ed "smac	ck," "jur	ık," or "	'China V	White,"	one or r	nore			
QN52:			udents v	who eve	r used h	neroin (a	lso calle	ed "smac	ck," "jur	nk," or "	China V	White," (	one or r	nore	No linear change	Not available	No chang
QN52: imes do	ring the	ir life)  ge of st	udents v	who eve	er used h	nethamp					3.6	3.1	2.7	2.0	No linear change	Not available	

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

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

Alcohol a	and Oth	her I	Drug	Use	H	lealth R	kisk Beh	avior a	nd Pero	centage	s					Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §
1991	1993	199	95	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	3		
QN54: 1	Percenta	age c	of stu	dents v	vho eve	r used e	cstasy (	also call	ed "MD	)MA," c	one or n	nore tim	nes durin	ng their	life)			
												7.3	6.7	4.1	3.7	Decreased, 2013-2018	Not available <sup>¶</sup>	No chang
QN56: 1							ed any il	legal dr	ug (used	l a need	le to inj			·		Decreased, 2013-2018	Not available <sup>¶</sup>	No chang
QN56: I body, on							ed any il	legal dr	ug (usec	l a need	le to inj			·		Decreased, 2013-2018  No linear change	Not available <sup>¶</sup> Not available	No chang
QN56: I body, on	e or mo	ore ti	imes	during	their lif	e)				·		ect any 2.8	illegal	drug into	o their			
QN56: 1	e or mo	age o	of stu	during	their lif	e)				·		ect any 2.8	illegal	drug into	o their			,

<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 High School Survey Anne Arundel County Trend Analysis Report

**Sexual Behaviors 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 QN58: Percentage of students who ever had sexual intercourse 32.4 35.2 34.9 No linear change Not available ¶ No change 35.0 QN59: Percentage of students who had sexual intercourse for the first time before age 13 years 2.8 2.2 2.1 No linear change Not available No change 2.7 QN60: Percentage of students who had sexual intercourse with four or more persons during their life

9.7

7.0

27.0 24.0

7.1

25.9

8.8

26.3

No linear change

No linear change

Not available

Not available

White\*

QN61: Percentage of students who were currently sexually active (had sexual intercourse with at least one person,

during the 3 months before the survey)

No change

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.

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

Not enough years of data to calculate.

White* Sexual B	Sehavio	rs															
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>		
QN62: 1 who we					nk alcol	nol or us	sed drug	s before	last sex	xual inte	ercourse	(amon	g studer	nts			
											24.4	30.5	22.6	25.5	No linear change	Not available¶	No chang
QN63:	Percenta y sexual	age of s	tudents e)	who use	d a cond	dom dur	ing last	sexual i	ntercou	rse (am	ong stud	dents w	no were				·
											60.9	61.6	54.9	59.7	No linear change	Not available	No chang
QN64:	Percenta	age of s	tudents	who use	d birth o	control p	oills bef	ore last	sexual i	ntercou	rse (to p	prevent	oregnan	cy,			
											28.2	21.4	31.5	36.9	Increased, 2013-2018	Not available	No chang
QNIUD or Nexp																	
ŕ											1.0	0.7	4.3	2.8	Increased, 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.

				H	lealth 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	_		
control	PARG: 1 ring (suc y sexual	ch as Nu	vaRing)														
	-										3.8	4.3	2.7	4.1	No linear change	Not available¶	No chan
				_	. 1	1114	. 1	***									
mplant control	HHPL: I (such as ring (suc y sexual	s Implan ch as Nu	on or N vaRing)	explano	n); or a	shot (su	ich as Ď	epo-Pro	vera), p	atch (su	ich as C	rthoEvi	a), or bi		Increased, 2013-2018	Not available	No chan
QNDUA	(such as ring (suc	s Implan ch as Nu ly active  Percenta uch as M patch (s	on or N evaRing) e) age of st lirena or uch as (	expland ) before  udents v r ParaG OrthoEv	who use ard) or i	d both a mplant oirth con	condor (such as	epo-Pro (to prev n during Implan	g last secon or N	eatch (sugnancy,	33.0 ercourse on); or a	26.5 e and bir shot (si	a), or bi who w 38.5 th contract	43.8 ol	Increased, 2013-2018	Not available	No char

<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 High School Survey Anne Arundel County Trend Analysis Report

White\* **Sexual Behaviors Health Risk Behavior and Percentages** Linear Change<sup>†</sup> Quadratic Change<sup>†</sup> Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2011 2013 2014 2005 2007 2009 2016 2018 QNBCNONE: Percentage of students who did not use any method to prevent pregnancy during last sexual intercourse (among students who were currently sexually active) 9.2 11.7 7.2 6.9 No linear change Not available ¶ No change QN84: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood) 11.1 13.3 13.2 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.

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

Not enough years of data to calculate.

				H	Iealth R	Risk Bel	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	-		
						erweigh data fro						tile for l	oody ma	ss			
											13.3	12.5	13.0	15.1	No linear change	Not available	No chang
						besity (>			le for be	ody mas	ss index	, based	on sex-	and			
ige-spe	entic refe	erence a	ata fron	the 200	00 CDC	growth	charts)	l									
ge-spe	eific refe	erence d	ata fron	the 200	00 CDC	growth	charts)				10.4	9.7	11.6	8.9	No linear change	Not available	No chan
						growth			very ov	verweigl		9.7	11.6	8.9	No linear change	Not available	No chan
									very ov	_		9.7	30.6	30.3	No linear change  No linear change	Not available  Not available	No chan
QN67: QN69:	Percenta	age of st	udents v	who des	cribed t		es as sli	ghtly or			ht 29.1	26.0	30.6	30.3			,

<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.

Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

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

				H	Iealth R	tisk Beh	avior a	nd Perc	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	3		
)N70: 1	Percenta	ige of st	udents v	who did	not eat	fruit (on	e or mo	re times	during	the 7 da	ays befo	ore the s	urvey)				
											11.4	13.6	14.7	11.5	No linear change	Not available¶	No chang
					id not ea		r drink 1	00% fr	uit juice	es (such	as oran	ge juice	, apple	juice,			
					id not ea		r drink 1	00% fr	uit juice	es (such	as oran	ge juice	, apple	juice, 6.6	No linear change	Not available	No chan
r grape	juice, d	uring th	e 7 days	s before	the surv	vey)					5.8	7.3	9.2		No linear change	Not available	No chan
r grape  ONFR1:	juice, d Percen	uring th	students	s before		vey) or drank	100% fr	uit juice	es one o		5.8	7.3	9.2		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.

White* Weight M	[anage	ment a	nd Diet	ary Bel	naviors												
				I	<b>Health F</b>	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	_		
QNFR2: I										or more	times p	er day (	such as	•			
											31.5	26.1	25.1	27.7	No linear change	Not available¶	No change
QN71: Pe	ercenta	ige of st	tudents	who did	not eat	green sa	alad (on	e or moi	re times	during	the 7 da	ıys befo	re the si	urvey)			
											33.6	38.6	41.2	40.0	Increased, 2013-2018	Not available	No change
QN72: Pe	ercenta	ige of st	tudents	who did	not eat	potatoe	s (one o	r more t	imes du	ring the	7 days	before t	he surv	ey)			
											30.5	35.0	34.1	39.6	Increased, 2013-2018	Not available	Increased
QN73: Pe	ercenta	ige of st	tudents	who did	not eat	carrots	(one or	more tin	nes duri	ng the 7	days b	efore th	e surve	y)			· · · · · · · · · · · · · · · · · · ·
											44.3	47.6	51.2	45.7	No linear change	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.

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

				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	_		
QN74: F	Percenta	ige of st	udents	who did	not eat	other ve	getables	s (one o	r more t	imes du	ring the	e 7 days	before t	he			
survey)											14.2	15.3	14.7	14.9	No linear change	Not available <sup>¶</sup>	No chang
QNVEGootatoes,												ng Frenc	h fries,	fried 5.9	No linear change	Not available	No chang
	or pota	entage o	s], carro	nts who	her vege	etables,	during the	ne 7 day	es per d	ay (gree	4.9 en salad	6.1	6.7	5.9	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.

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

Veight 1	Manage	ement a	nd Diet	•	aviors Iealth R	lisk 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	<del>-</del>		
	32: Perofries, frie																
		•	•		•						29.0	25.8	22.0	25.3	Decreased, 2013-2018	Not available <sup>¶</sup>	No chang
	33: Pero													the			
	33: Pero													the 11.6	No linear change	Not available	No chan
excludi urvey) N75:		ch fries,	fried po	otatoes, who did	or potat	o chips]	, carrots	or glass	er veget	ables, d	luring th	13.3	s before	11.6	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 High School Survey Anne Arundel County Trend Analysis Report

White\* Weight Management and Dietary Behaviors **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 QNSODA1: Percentage of students who drank a can, bottle, or glass of soda or pop one or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey) 19.6 18.4 16.8 11.4 Decreased, 2013-2018 Not available ¶ Decreased QNSODA2: Percentage of students who drank a can, bottle, or glass of soda or pop two or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey) 12.5 10.6 10.4 5.5 Decreased, 2013-2018 Not available Decreased

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

<sup>&</sup>lt;sup>†</sup>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.

				H	lealth R	isk 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	-		
kind of	Percenta physical fore the s	activity															
,		•									45.1	40.1	41.2	46.5	No linear change	Not available¶	Increase
1 day (i	DAY: For any kiruhe 17 day	nd of ph	ysical a	ctivity tl													,
1 day (i	n any kir	nd of ph	ysical a	ctivity tl								ard son	ne of the		No linear change	Not available	No chan
1 day (induring t	n any kir	nd of ph s before Percenta activity	ysical action the sur	ctivity tl vey)	hat incre	eased the	eir heart	rate an	d made	ninutes	12.1 per day	15.1 on all 7	15.1	13.2	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.

# Maryland High 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 ON79: Percentage of students who watched television 3 or more hours per day (on an average school day) 25.1 22.2 19.7 15.2 Decreased, 2013-2018 Not available ¶ Decreased QN80: 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 Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day) 33.2 37.0 39.6 39.2 Increased, 2013-2018 Not available No change QN81: 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 47.9 39.8 44.3 47.0

<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 High 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 QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school) 3.8 2.5 3.2 3.2 No linear change Not available ¶ No change QN83: 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) 16.6 14.5 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.

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

Not enough years of data to calculate.

White* Other																	
				H	Health 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	_		
QN86: 1 during tl						st (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or oth	er dent	al work	,			
8					,												
												81.2	82.1	82.8	No linear change	Not available¶	No change
QNNOE	ONT: Pe	ercentag	ge of stu	dents w	ho neve	r saw a o	dentist (	for a ch	eck-up,	exam, t	eeth cle				No linear change	Not available <sup>¶</sup>	No change
QNNOE work)	DNT: Pe	ercentag	ge of stu	dents w	ho neve	r saw a o	dentist (	for a che	eck-up,	exam, t	eeth cle				No linear change	Not available <sup>¶</sup> Not available	No change
												aning, o	or other	dental			

<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 High School Survey **Anne Arundel County Trend Analysis Report**

White\*

Site-Add	led			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	_		
QN90: 1	Percent	age of s	tudents	who are	transge	nder							2.5	1.8	No linear change	Not available <sup>¶</sup>	No change
QN93: before the									g (on at	least 1	day dur	ing the	·	32.1	No linear change	Not available	No change
QN94: 1	Percent	age of s	tudents	who sm	oked a v	whole ci	garette t	pefore a	ge 13 ye	ears (for	the firs	t time) 7.4	6.3	2.7	Decreased, 2013-2018	Not available	Decreased
QN98: day duri						pacco in	a hooka	ah, narg	hile, or o	other ty	pe of wa	aterpipe	(on at le	east 1 2.5	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 High 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 QN99: 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) 95.4 97.7 97.4 No linear change Not available ¶ No change QN101: Percentage of students who have ever used an electronic vapor product to smoke marijuana, THC or hash oil, or THC wax Not available 11.0 16.4 Increased, 2016-2018 Increased QN102: Percentage of students who think they definitely or probably will smoke a cigarette, cigar, cigarillo, or little cigar in the next year 19.3 13.1 Decreased, 2016-2018 Not available Decreased QN103: 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) Decreased, 2013-2018 Not available Decreased 11.2 13.6 8.7

<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 High School Survey **Anne Arundel County Trend Analysis Report**

White\*

Site-Add				H	lealth R	kisk Beh	avior 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	<u> </u>		
QN104:		tage of	students	who tri	ed or us	ed tobac	cco prod	lucts for	the firs	st time (	during	the 12 n	nonths b	efore	,		
												12.8	9.8	9.6	Decreased, 2014-2018	Not available¶	No change
												2 montl	ns before	e the			
												2 montl	36.0	e the 10.6	Decreased, 2013-2018	Not available	Decreased
QN105: survey, a	mong s	tudents	who use	ed tobac	co prod	ucts dur	ing the	12 mon	ths befo	re the su	urvey) 41.1	38.1			Decreased, 2013-2018	Not available	Decreased
survey, a	mong s	tudents	who use	ed tobac	co prod	ucts dur	ing the	12 mon	ths befo	re the su	urvey) 41.1	38.1			Decreased, 2013-2018  Decreased, 2013-2018	Not available  Not available	Decreased
survey, a	Percent	tage of	who use	who liv	re with s	someone	e who no	ow smo	kes ciga	rettes or	41.1 r cigars 37.6	38.1	36.0	10.6			

<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 High School Survey **Anne Arundel County Trend Analysis Report**

White\*

				H	lealth R	kisk 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	3		
	Percen he 7 day				ere in th	e same 1	room wi	th some	one wh	o was si	moking	(on at	least one	e day			
													33.8	28.0	Decreased, 2016-2018	Not available <sup>¶</sup>	Decreased
QN110: chool y		tage of	students	who we	ere taug	ht in the	ir classe	es about	the dan	gers of	tobacco	use (d	uring th	e last			
											74.1	64.4	66.4	64.7	Decreased, 2013-2018	Not available	No change
QN117: friends	Percen	tage of	students	who sa	y defini	tely yes	or prob	ably yes	that yo	oung pec					Decreased, 2013-2018	Not available	No change
	Percen	tage of	students	who sa	y defini	tely yes	or prob	ably yes	that yo	oung pec					Decreased, 2013-2018  Increased, 2013-2018	Not available  Not available	No change
riends	Percen					tely yes					ople wh	o smok 29.2	e have r	34.9	,		

<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 High 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 §

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

QN119: 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

80.3 79.6 80.6 80.8

No linear change

Not available<sup>¶</sup>

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.

				Н	ealth R	isk Beh	avior a	nd Perc	entages	<b>;</b>					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	_		
		ge of stu uring the					no had b	een drii	nking al	cohol (i	in a car 18.4	or other	vehicle	, one 8.9	Decreased, 2013-2018	Not available¶	Decrease
		<u> </u>	udente s	.l	iad a m	non or	n school	propert	v (such	as a gu	n knife	e or club	o, on at l	east 1			
	Percentang the 3	age of st 0 days l				eapon or	rschool	proper	y (such	u g	6.0	3.0	7.3	5.9	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.

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

g y ••	nd Viol	ence		Н	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			
		age of st								on scho	ol prop	erty (suc	h as a g	un,			
Killie, ol	ciuo, oi	ne or m	ore time	s during	, uic 12	montais	before	ine sur v	~ 3 )		10.5	6.9	6.9	9.5	No linear change	Not available¶	No chang
		age of st		who wer	re in a p	hysical	fight on	school	property	(one o	r more	imes du	ring the	12			,
		age of st he surve		who wer	re in a p	hysical	fight on	school	property	(one of	r more 1	imes du	ring the	12 18.4	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.

njury and Violence		H	lealth R	isk 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	8		
QN23: Percentage of	students	who wei	e bullie	d on sch	ool pro	perty (e	ver duri	ng the 1	12 mont	hs befo	e the su	rvey)			
									17.8	12.7	12.0	13.2	No linear change	Not available <sup>¶</sup>	No chang
QN24: Percentage of Facebook, or other soc									d throug	gh textir	g, Insta	gram,	Decreased, 2013-2018	Not available	No chang
<del></del>		1 6 1.	1		(almost	every (	lay for	>=2 we	eks in a	row so	that the	V			
QN25: Percentage of stopped doing some us															

<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	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			
						-											
-	Percenta	age of st	udents v	who seri	iously co	onsidere	ed attem	pting su	icide (e	ver duri	ng the 1	2 mont	hs before	e the			
-	Percenta	nge of st	udents v	who seri	iously co	onsidere	ed attem	pting su	icide (e	ver duri	ng the 1 18.7	2 mont		e the 15.6	No linear change	Not available <sup>¶</sup>	No chanş
survey)	Percenta	age of st	,				,	,	·	·	18.7	13.3		15.6	No linear change	Not available <sup>¶</sup>	No cha

<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.

Black* Tobacco	Use																
				H	Iealth F	Risk Bel	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	8		
QN32: 1 survey)	Percenta	age of st	tudents	who cur	rently si	moked c	igarette	s (on at	least 1	day duri	ing the 3	30 days	before t	he			
											13.4	5.7	5.9	4.0	Decreased, 2013-2018	Not available <sup>¶</sup>	No change
QNFRC			of stud	ents who	o curren	tly smo	ked ciga	arettes fi	requentl	y (on 20	or moi	e days	during t	he 30			
											2.5	0.7	0.8	0.3	Decreased, 2013-2018	Not available	No chang
QNDAY before th			ge of st	udents w	vho curr	ently sn	noked ci	igarettes	s daily (	on all 3	0 days d	uring th	ie 30 da	ys			
											2.0	0.5	0.5	0.3	No linear change	Not available	No change
QN34: I	es, vapi	ing pens															
eGo, and	л паю])	)										40.3	35.7	37.1	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 High 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 QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey) 19.6 11.0 21.2 No linear change Not available ¶ Increased QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey) 1.6 1.4 2.5 No linear change Not available No change QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey) No linear change Not available No change 1.2 1.4 2.1 QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey) 23.0 15.2 22.9 No linear change Not available Increased

<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 High School Survey Anne Arundel County Trend Analysis Report

Black\* **Tobacco Use Health Risk Behavior and Percentages** Linear Change<sup>†</sup> **Ouadratic Change**† Change from 2016-2018 § 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey) 4.9 1.3 No linear change Not available ¶ Decreased QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey) 15.2 11.2 11.1 5.7 Decreased, 2013-2018 Not available Decreased QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey) Not available 20.1 13.6 14.1 7.8 Decreased, 2013-2018 Decreased

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

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

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

Not enough years of data to calculate.

Black* Alcohol	and Oth	her Dru	g Use	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	3		
QN40:	Percenta	age of st	udents v	who had	l their fi	rst drink	of alco	hol befo	ore age 1	13 years	(other	than a fo	ew sips)	)			
											22.6	19.7	14.3	17.8	No linear change	Not available¶	No change
				who cur	rently d	rank alc	ohol (at	least on	e drink	of alcol	nol, on a	nt least 1	day du	ıring			
the 30 d	ays befo	ore the s	arvey)								26.2	17.4	19.4	10.8	Decreased, 2013-2018	Not available	Decrease
ON42:	Percents	age of st	tudents v	who cur	rently u	vere bing	ne drink	ing (had	l four or	more d	rinks of	alcoho	in a ro	w for			
		or five o	or more	drinks o		ol in a ro											
	ng the 3	30 days l	before th	ne surve	y)												

<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			
QN45: 1	Percenta	age of s	tudents v	who eve	r used r	narijuan	a (one c	or more	times du	iring the	eir life)						
											38.7	31.2	31.8	31.6	No linear change	Not available¶	No change
QN46: 1	Percenta	age of s	tudents	who trie	d mariji	uana for	the first	time be	efore ag	e 13 yea	ars	•	•				
											11.2	6.5	9.2	7.4	No linear change	Not available	No change
QN47: 1 survey)	Percenta	age of s	tudents	who cur	rently u	sed mar	ijuana (d	one or n	nore tim	es durir	ig the 30	0 days b	efore th	e			
											20.5	18.5	19.2	18.4	No linear change	Not available	No change
QN48: 1	Percenta	age of s	tudents	who eve	er used s	synthetic	marijua	ana (one	or mor	e times	during	their life	e)				
												6.5	7.4	8.5	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	and Otl	her Dru	g Use	F	Iealth R	tisk Beł	navior a	nd Perc	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			
lifferen	Percenta tly than odone, a	how a d	loctor to	old them	to use it	t (count	ing drug	s such a									
													11.9	15.7	No linear change	Not available¶	No chang
	Percenta nore tim				r used c	ocaine (	any forr	m of coc	caine, in	cluding	powde	r, crack	or free	base,	,		
											5.2	4.6	5.5	6.2	No linear change	Not available	No chan
	Percenta uring the		udents	who eve	r used h	eroin (a	lso calle	ed "smac	ck," "jur	ık," or '	'China	White,"	one or	nore			
											5.9	3.2	6.1	6.2	No linear change	Not available	No chang
	Percentar "meth,"						hetamir	nes (also	called	"speed,	" "cryst	al meth,	" "cranl	ς,"			

<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.

Black* Alcohol a	and Oth	ner Dru	ıg Use	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	5 2018	3		
QN54: F	Percenta	ige of st	tudents v	who eve	r used e	cstasy (	also call	ed "MD	MA," o	ne or n	nore tim	ies durii	ng their	life)			
											8.8	4.8	6.7	6.5	No linear change	Not available¶	No change
QN56: F	Percenta e or mo	nge of st	tudents v	who eve	r injecte e)	ed any il	legal dr	ug (used	l a need	le to inj	ject any	illegal	drug int	o their	,		,
•					ŕ						5.1	3.4	5.6	8.1	Increased, 2013-2018	Not available	No change
QN57: P				who we	re offere	ed, sold,	or give	n an ille	gal drug	on sch	ool pro	perty (d	uring th	ie 12			
			-								34.3	24.9	26.0	21.7	Decreased, 2013-2018	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 High School Survey Anne Arundel County Trend Analysis Report

Black\* **Sexual Behaviors 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 QN58: Percentage of students who ever had sexual intercourse Not available ¶ 33.0 Decreased, 2013-2018 No change QN59: Percentage of students who had sexual intercourse for the first time before age 13 years 8.5 7.5 7.2 No linear change Not available No change 6.8 QN60: Percentage of students who had sexual intercourse with four or more persons during their life 18.1 9.6 9.7 7.0 Decreased, 2013-2018 Not available No change QN61: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey) 23.1 23.6 21.1 Decreased, 2013-2018 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>Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

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

Black\* **Sexual Behaviors** 

**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

QN84: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood)

> 15.3 16.9 16.3 No linear change

Not available ¶

No change

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

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

Not enough years of data to calculate.

				H	Iealth R	Risk 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	-		
			of studen d age-sp									tile for l	ody ma	iss			
											17.7	17.2	15.8	16.4	No linear change	Not available	No chang
			e of stud						le for b	ody mas	ss index	, based	on sex-	and			
											16.5	14.6	16.6	20.6	No linear change	Not available	No chang
QN67:	Percenta	age of st	tudents v	vho des	cribed t	hemselv	es as sli	ghtly or	very ov	verweigl	ht						
QN67:	Percenta	age of st	tudents v	who des	cribed t	hemselv	es as sli	ghtly or	very ov	verweigl	ht 26.9	24.3	26.5	25.8	No linear change	Not available	No chang
QN69:	·	age of st	tudents v								26.9				No linear change	Not available	No chan

<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.

Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

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

				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	-		
QN70: 1	Percenta	age of st	udents v	who did	not eat	fruit (or	ne or mo	re times	during	the 7 da	ays befo	ore the s	urvey)				
											22.5	22.9	22.1	24.5	No linear change	Not available¶	No change
QNFR0:							r drink	100% fr	uit juice	es (such	as oran	ge juice	, apple	juice,			
QNFR0: or grape							r drink	100% fr	uit juice	es (such	as oran	ge juice	, apple	juice,	No linear change	Not available	No change
	juice, d	luring th	student	s before	the surv	vey) or drank	100% fi	ruit juic	es one o		9.2	7.7	11.9		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.

	J			ary Bel I		Risk Bel	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			
						or drank the 7 da				or more	times p	er day (	such as				
											31.5	29.7	28.6	26.9	No linear change	Not available¶	No chang
QN71:	Percenta	age of st	tudents	who did	not eat	green sa	ılad (one	e or mo	re times	during	the 7 da	ays befo	re the s	urvey)			
											48.2	52.4	55.7	52.1	No linear change	Not available	No chang
QN72:	Percenta	age of st	tudents	who did	not eat	potatoe	s (one or	r more t	imes du	ring the	e 7 days	before t	he surv	ey)	+		
											42.6	48.4	44.6	43.9	No linear change	Not available	No chang
QN73:	Percenta	age of st	tudents	who did	not eat	carrots	(one or 1	more tir	nes duri	ing the 7	7 days b	efore th	e surve	y)	,		
											61.1	65.7	65.8	65.0	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.

				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	-		
QN74: urvey)	Percenta	age of st	udents v	who did	not eat	other ve	getable	s (one o	r more t	imes du	ring the	e 7 days	before	the			
ui vey)											23.6	28.0	27.1	20.7	No linear change	Not available¶	No chang
	G0: Perc											ng Frenc	ch fries,	fried	No linear change	Not available	No chang
	G1: Perc fries, frie																
rench i		o potest	, or F	our vi		, 0.	ourer .	-5	, , , ,	.5	<b>u</b> uj 5 0 0			,			

<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.

	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	-		
QNVEC French f																	
											24.5	19.0	19.6	24.2	No linear change	Not available¶	No change
ONVEC	3: Perc		of stude											the			
[excludi survey)	ng Fren	ch fries,	iriea po	tatoes,	or potat	o cnips]	, carrois	, or our	n vegeu	abies, u	13.2	11.2	12.2	12.5	No linear change	Not available	No change
[excludi	Percenta	age of st	udents v	who did	not drin	ık a can	, bottle,	or glass	of soda		13.2	11.2	12.2	12.5	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.

Health Risk Behavior and Percentages											Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2016-2018 §				
1991 199	93	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	_		
NSODA1: uch as Cok										days be	efore the			17.3	Decreased, 2013-2018	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.

Black* Physical	l Activit	y		-												0 1 1 0	C) A
				H.	lealth R	kisk Bel	iavior 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	-		
kind of	Percenta physical fore the	activity															
											31.0	30.2	32.3	32.7	No linear change	Not available¶	No chang
1 day (ii	DAY: In any kinhe 7 day	nd of ph	ysical a	ctivity t													
											22.1	25.1	21.9	22.4	No linear change	Not available	No chang
	DAY: F	activity															
	fore the	survey)															

<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	disk Bel	navior a	nd Pero	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	2018	3		
QN79: Pe	ercenta	ge of st	udents v	who wat	ched tel	evision	3 or mo	re hour	s per da	y (on ar	averag	e schoo	l day)	·			
											46.3	39.8	32.0	33.4	Decreased, 2013-2018	Not available <sup>¶</sup>	No chang
QN80: Pe (counting Instagram,	time sp	pent on	things s	such as 2	Kbox, P	layStati	on, an iF	Pad or o	ther tab	let, a sn	nartpho	ne, texti	ng, Ŷoι	ıTube,	No linear change	Not available	No chang
(counting	time sp , Faceb	pent on book, or ge of st	things so ther so	such as 2 ocial mo	Kbox, Pledia, for	layStation someth	on, an iF	Pad or o	ther tabl	let, a sm work, c	nartphon on an av 38.5	ne, texti verage s 42.3	ng, You chool d	ay) 43.1	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.

			Н	ealth R	isk Beh	avior a	nd Perc	entages	1					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			
NDLYPE: Pe				o attend	ed phys	ical edu	cation (	PE) clas	ses on a	all 5 day	s (in an	average	e			
eek when they	were in	SCHOOL)								6.1	3.7	4.1	6.5	No linear change	NT / 111 ¶	
										0.1	3.1	4.1	6.5	No fifical 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.

Black* Other																	
				I	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			
QN86: during tl						ist (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or oth	er denta	ıl work	,			
<b>6</b> ·					,							69.4	65.5	63.1	No linear change	Not available <sup>¶</sup>	No change
QNNOI	ONT: Po	ercentag	ge of stu	dents w	ho neve	r saw a	dentist (	for a ch	eck-up,	exam, t	eeth cle	aning, o	or other	dental			
work)												3.0	3.0	4.1	No linear change	Not available	No change
ONOZ		<u> </u>				. 11					1 4						
QN87:	Percenta	age of st	udents v	wno hac	ever be	een told	by a doc	ctor or n	urse tha	at they h	ad asthi 34.0	ma 33.5	32.1	32.4	No linear change		No change
																Not available	

<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 High School Survey **Anne Arundel County Trend Analysis Report**

Black\*

Site-Ado	ieu			F	Iealth 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	_		
QN90:	Percenta	age of s	tudents	who are	transge	nder							4.1	0.3	Decreased, 2016-2018	Not available <sup>¶</sup>	Decreased
QN94:	Percenta	age of s	tudents	who sm	oked a v	whole ci	garette b	efore ag	ge 13 ye	ears (for	the first	t time) 4.9	8.4	4.8	No linear change	Not available	No change
QN98: day duri						oacco in	a hooka	h, nargl	nile, or o	other typ	pe of wa	nterpipe	(on at le	east 1 4.9	No linear change	Not available	No change
QN101: oil, or T			students	s who ha	ave ever	used an	electron	nic vapo	or produ	ct to sm	oke ma	rijuana,	THC or	hash	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 High 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 QN102: Percentage of students who think they definitely or probably will smoke a cigarette, cigar, cigarillo, or little cigar in the next year No linear change Not available ¶ No change 19.6 14.5 QN103: 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) Not available Decreased 15.2 8.5 6.3 3.1 Decreased, 2013-2018 QN104: Percentage of students who tried or used tobacco products for the first time (during the 12 months before the survey) 9.1 7.2 Decreased, 2014-2018 Not available Decreased QN106: Percentage of students who live with someone who now smokes cigarettes or cigars 42.8 36.8 31.6 26.7 Decreased, 2013-2018 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 High 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 QN107: 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) 78.3 79.6 No linear change Not available ¶ No change QN108: 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) 26.2 19.8 Decreased, 2016-2018 Not available No change QN110: Percentage of students who were taught in their classes about the dangers of tobacco use (during the last school year) 76.6 62.3 62.2 57.5 Decreased, 2013-2018 Not available No change QN117: Percentage of students who say definitely yes or probably yes that young people who smoke have more friends 57.5 51.3 53.0 54.0 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.

Black* Site-Add	ed			H	Iealth F	Risk Bel	havior 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	-		
		tage of	students	who sa	y defini	tely yes	or prob	ably yes	s that sm	noking 1	nakes y	oung pe	ople lo	ok			
QN118: cool or fi		tage of	students	who sa	y defini	tely yes	or prob	ably yes	s that sn	noking 1	nakes y 36.0	29.3	eople lo 25.8	ok 31.0	No linear change	Not available <sup>¶</sup>	No cha
	it in Percen	tage of	students	who we	ould fee	l comfo	ortable so		·		36.0	29.3	25.8	31.0	No linear change	Not available <sup>¶</sup>	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 High School Survey Anne Arundel County Trend Analysis Report

Hispanic **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 2018 QN9: Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one or more times during the 30 days before the survey) 29.1 22.4 17.2 22.4 No linear change Not available§ No change QN13: Percentage of students who carried a weapon on school property (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey) 10.1 4.9 14.0 8.3 No linear change Not available Decreased QN14: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting or for a sport such as target shooting, on at least 1 day during the 12 months before the survey) 11.9 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.

Hispanic Injury an		nce		Н	ealth R	isk Beh	avior aı	nd Perc	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	5 2018	<del>_</del> 3		
QN16: I										on scho	ol prop	erty (su	ch as a	gun,			
											16.8	11.8	13.4	11.1	No linear change	Not available <sup>§</sup>	No change
QN18: I				who we	re in a p	hysical	fight on	school	property	(one o	r more	times d	uring th	e 12	,		
											23.1	16.5	15.3	17.3	No linear change	Not available	No change
QN22: I someone with an ewent out	they wobject o	ere dati r weapo	ng or go on] one o	oing out or more	with [co	ounting uring the	such thi e 12 mo	ngs as b	eing hit	, slamm	ned into	someth	ing, or	injured			,
											21.7	14.7	20.1	18.5	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.

Hispanic Injury and Violence		Нє	alth Ri	sk Beha	avior an	id 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			
QN23: Percentage of str	udents v	vho wer	e bullie	d on sch	ool prop	perty (e	ver duri	ng the 1	2 mont	hs befor	e the su	rvey)			
									28.0	20.9	21.3	22.1	No linear change	Not available§	No change
QN24: Percentage of str Facebook, or other socia									l throug	h textir	ıg, Insta	gram,	,		
									19.0	18.6	16.1	19.4	No linear change	Not available	No change
QN25: Percentage of str stopped doing some usua									eks in a	row so	that the	y			,
									32.8	30.1	39.4	38.2	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 High School Survey Anne Arundel County Trend Analysis Report

Hispanic **Injury and Violence** Linear Change\* **Health Risk Behavior and Percentages** Quadratic Change\* Change from 2016-2018 <sup>†</sup> 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2014 2016 2018 QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey) Not available§ 23.8 20.2 24.6 23.9 No linear change No change

21.7 18.4 19.8 21.5

No linear change

Not available

QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months

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.

Iispanic 'obacco U	IJ <b>se</b>																
				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			
QN32: F survey)	Percenta	age of st	udents	who cur	rently si	noked c	igarette	s (on at	least 1	day duri	ing the 3	30 days	before t	he			
											20.6	11.0	14.3	9.7	No linear change	Not available§	No change
NFRCI ays befo		centage survey)	of stud	ents who	o curren	tly smol	ked ciga	rettes fi	requentl	y (on 20	or mo	re days	during t	he 30			
											8.9	2.0	3.4	3.7	No linear change	Not available	No change
NDAY efore th			ge of st	udents w	vho curr	ently sn	noked ci	garettes	s daily (	on all 3	0 days c	luring th	ne 30 da	ys			;
											8.3	2.0	2.0	3.7	No linear change	Not available	No change
QN34: F	es, vapi	ing pens													,		,
eGo, and	l Halo])	1										47.4	43.2	44.2	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.

Not enough years of data to calculate.

Iispanic 'obacco																	
				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	-		
QN35: e-pipes, Plus, eQ	vape pi	pes, var	oing pen	s, e-hoo	kahs, ar	id hooka	h pens	[such as	blu, NJ								
												24.0	18.1	29.0	No linear change	Not available <sup>§</sup>	Increased
			e of stud		io currei	ntly used	l electro	nic vap	or produ	icts freç	quently (	(on 20 c	or more	days			,
												3.3	3.5	4.9	No linear change	Not available	No change
QNDA' the 30 c				tudents	who cur	rently us	sed elec	tronic v	apor pro	oducts d	aily (on	all 30 c	lays du	ring			•
												2.3	3.3	3.8	No linear change	Not available	No change
QNTB5						smoked	l cigaret	tes or us	sed elec	tronic v	apor pro	oducts	(on at le	east 1			,
												29.4	25.8	33.0	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.

Iispanic 'obacco							_								*		
				Н	ealth Ri	isk Beha	avior an	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	-		
QN37: dissolva	ble toba	icco pro	ducts [si	uch as C	Copenha	gen, Gri	zzly, Sk	oal, or						nic			
													9.5	5.6	No linear change	Not available§	No change
QN38: during tl					rently si	noked c	igars (ci	igars, ci	garillos.	, or little	e cigars,	on at le	east 1 da	ıy			
											22.4	15.6	12.3	11.2	No linear change	Not available	No change
QNTB2 before th			student	s who c	urrently	smoked	cigaret	tes or ci	gars (or	at leas	t 1 day o	during t	ne 30 da	nys	,		
											29.0	18.9	19.6	15.2	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.

Hispanic Alcohol a		er Druş	g Use	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	3		
QN40:	Percenta	age of s	tudents	who hac	l their fi	rst drink	of alco	hol befo	ore age	13 years	s (other	than a f	ew sips	)			
											32.5	20.1	22.6	18.3	Decreased, 2013-2018	Not available <sup>§</sup>	No change
QN41: the 30 d				who cur	rently d	rank alc	ohol (at	least or	ne drink	of alcol	hol, on	at least	1 day dı	uring			
	uj 5 0 01 0		ui (0))								37.5	28.0	25.2	28.1	No linear change	Not available	No change
QN42: female s day duri	tudents	or five	or more	drinks o	of alcoh												
													16.1	15.4	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.

Hispanic Alcohol a		er Druş	g Use	н	ealth R	isk Beh	avior ar	nd Perc	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			
QN45:	Percenta	age of s	tudents	who eve	er used r	narijuan	a (one o	or more	times du	iring the	eir life)						
											46.0	38.7	33.1	38.5	No linear change	Not available§	No change
QN46:	Percenta	age of s	tudents	who trie	d mariji	uana for	the first	time be	efore ag	e 13 yea	ars						:
											13.3	11.7	13.9	14.7	No linear change	Not available	No change
QN47: survey)	Percenta	age of s	tudents	who cur	rently u	sed mar	ijuana (d	one or n	nore tim	es durir	ng the 3	0 days l	pefore th	ne			
3,											23.8	22.3	20.4	23.5	No linear change	Not available	No change
QN48:	Percenta	age of s	tudents	who eve	er used s	synthetic	marijua	ana (one	e or mor	e times	during	their lif	e)				
												14.2	12.8	15.4	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.

ispanic Icohol a		er Dru	g Use														
				H	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			
QN49: different Hydroco	tly than	how a c	loctor to	old them	to use i	t (count	ing drug	s such a									
													19.7	21.7	No linear change	Not available§	No change
QN50:					er used c	cocaine (	any fori	m of coo	caine, in	cluding	powde	r, crack,	or free	base,			
											16.2	10.3	11.7	13.0	No linear change	Not available	No change
QN52:			tudents	who eve	er used h	neroin (a	lso calle	ed "sma	ck," "jui	nk," or '	'China '	White,"	one or i	more			
											14.2	6.6	9.6	10.8	No linear change	Not available	No change
QN53: "ice," or							hetamir	nes (also	called	"speed,	" "crysta	al meth,	" "cranl	ς,"			
											12.1	6.9	9.7	10.5	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.

Hispanic Alcohol ar	nd Oth	er Druş	g Use	Н	ealth Ri	sk Beha	avior ar	nd 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		
QN54: I	Percenta	age of s	tudents	who eve	r used e	cstasy (	also call	led "MD	MA," c	one or m	nore tim	es durir	g their	life)			
											19.6	9.7	10.1	10.1	No linear change	Not available <sup>§</sup>	No change
QN56: I						ed any il	legal dr	ug (used	d a need	le to inj	ect any	illegal	drug int	o their			
body, on	e or me	ne time	s during	then in	<i>C)</i>						10.1	5.5	7.4	9.9	No linear change	Not available	No change
QN57: If				who wei	re offere	d, sold,	or give	n an ille	gal drug	on sch	ool prop	perty (d	uring th	e 12			
months c		ar sur ve	- 3 /								38.7	33.3	31.6	24.4	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 High School Survey Anne Arundel County Trend Analysis Report**

**Sexual Behaviors 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 QN58: Percentage of students who ever had sexual intercourse 45.8 36.8 41.4 33.7 No linear change Not available§ No change QN59: Percentage of students who had sexual intercourse for the first time before age 13 years 13.2 7.3 7.6 7.6 No linear change Not available No change

21.5

8.0

12.6 12.0

QN61: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)

QN60: Percentage of students who had sexual intercourse with four or more persons during their life

32.5 22.7 30.3 27.0 No linear change Not available No change

Not available

No linear change

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.

lispanic exual Beh	aviors	S															
				Н	ealth Ri	isk Beha	wior an	ıd Perce	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			

<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.

	<b>Ianage</b> i			-		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			
						erweigh data fro						tile for l	oody ma	iss			
											14.1	17.2	14.7	20.8	No linear change	Not available¶	No change
						besity (>			le for be	ody mas	ss index	, based	on sex-	and			
											16.8	16.0	19.6	18.7	No linear change	Not available	No change
QN67:	Percenta	age of st	udents	who des	cribed t	hemselv	es as sli	ghtly or	very ov	verweig	ht			:	·		
											31.7	30.6	31.9	34.4	No linear change	Not available	No change
						1 6 11	ioo (10	100/ ferri	t inicae	one or i	more tir	nes duri	ng the 7	davs	,		
	Percenta he surve		udents	who did	not drir	ik fruit j	uice (10	10% IIu	it juices	one or i	more un	nes dun					

<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>lt;sup>§</sup>Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

				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	_		
QN70:	Percenta	age of st	udents v	who did	not eat	fruit (on	e or mo	re times	during	the 7 da	ıys befo	ore the s	ırvey)	:			
											19.2	15.1	18.6	8.9	Decreased, 2013-2018	Not available§	Decreased
			students				r drink 1	100% fr	uit juice	es (such	as oran	ge juice	apple j	uice,			
			students e 7 days				r drink 1	100% fr	uit juice	es (such	as oran		apple j	uice,	No linear change	Not available	Decre
or grape QNFR1	juice, d	luring th		s before	the surv	vey) or drank	100% fr	ruit juice	es one o		9.7	8.2	11.8		No linear change	Not available	Decrease

<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 Weight M	Ianage	ment ar	d Dieta	-											*	*	CI 0
				Н	ealth K	isk Beh	avior aı	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			
QNFR2: orange ju										or more	times p	er day (	such as				
											37.1	27.1	28.7	27.2	No linear change	Not available <sup>§</sup>	No change
QN71: I	Percent	age of s	tudents	who did	not eat	green sa	alad (on	e or mo	re times	during	the 7 da	ays befo	re the s	urvey)			
											41.5	41.1	45.4	37.0	No linear change	Not available	No change
QN72: I	Percent	age of s	tudents	who did	not eat	potatoe	s (one o	r more t	imes du	ring the	7 days	before	the surv	ey)			
											37.9	39.5	41.1	44.3	No linear change	Not available	No change
QN73: I	Percent	age of s	tudents	who did	not eat	carrots	(one or	more tir	nes duri	ng the 7	days b	efore th	e surve	y)			
											51.1	47.5	47.1	54.0	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.

				Н	ealth Ri	sk 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			
QN74: survey)	Percenta	age of st	udents v	who did	not eat	other ve	getable	s (one o	r more t	imes du	iring the	e 7 days	before t	he			
											25.7	21.0	24.8	20.7	No linear change	Not available <sup>§</sup>	No change
QNVEC potatoes												ng Frenc	ch fries,	fried			
											11.7	9.5	11.4	11.4	No linear change	Not available	No change
QNVEC																	<del>.</del>

<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 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			
												l, potatoe fore the					
											32.6	26.3	25.6	25.2	No linear change	Not available§	No change
											32.0	20.5	23.0	23.2	110 Inicai change	T (or a variable	1 to change
											een sala	ad, potatene 7 days	oes		No linear change	Not available	No change
[excludi survey)	ng Fren	ch fries,	, fried po	otatoes,	or potat	o chips]	, carrots	or glass	er veget	ables, d	een sala uring th	ad, potatene 7 days	oes s before 15.6	the 15.4			

<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	isk Beh	avior aı	nd Perc	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change fron 2016-2018
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<del>-</del>		
ONSOD	A1. Per	rcentage	of stud	ents wh	o drank	a can 1	hottle o	r olass o	of soda o	or non o	ne or m	ore tim	es ner de	av.			
QNSODA (such as 0												e surve		9.8	Decreased, 2013-2018	Not available <sup>§</sup>	Decreased
	Coke, F	Pepsi, or	Sprite,	ents wh	nting die	et soda o	or diet p	r glass o	ng the 7	or pop tv	21.3 vo or m	18.8	18.2 es per d	9.8	Decreased, 2013-2018	Not available <sup>§</sup>	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.

Hispanic Physical		,		Н	ealth R	isk Beh	avior ar	nd Perc	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	_		
QN78: kind of j	physical	activity	that in														
•		•									31.2	29.9	25.6	27.5	No linear change	Not available§	No change
QNPA0 1 day (in during the	n any kii	nd of ph	ysical a	ctivity t													,
											21.6	19.9	23.0	22.2	No linear change	Not available	No change
QNPA7 kind of j days bef	physical	activity															
٠		•									15.6	16.5	14.8	11.9	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.

Hispanio Physical		7		Н	ealth Ri	sk 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	<u> </u>		
QN79:	Percent	age of st	udents v	who wat	ched tel	evision	3 or mo	re hour	s per da	y (on an	averag	e schoo	l day)	•			
											30.1	25.7	19.9	17.0	Decreased, 2013-2018	Not available§	No change
(counti	Percentang time sam, Face	spent on	things s	such as 2	Xbox, Pl	layStatio	on, an iF	Pad or o	ther tab	let, a sm	artphor	ie, texti	ng, Ŷou	Tube,			
											36.3	39.5	33.9	39.9	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 High School Survey Anne Arundel County Trend Analysis Report

Hispanic **Physical Activity** Linear Change\* **Health Risk Behavior and Percentages** 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) Not available§ 6.1 3.0 3.2 4.4 No linear change No change

QN83: 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)

21.5 21.9 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 High School Survey Anne Arundel County Trend Analysis Report**

Hispanic

Other				Н	ealth R	isk Beh	avior ar	nd Perc	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	-		
QN86: during t						ist (for a	check-ı	ıp, exan	n, teeth	cleaning	g, or oth	er denta	al work,				
												71.2	64.9	69.0	No linear change	Not available <sup>§</sup>	No change
QNNOI	ONT: Po	ercentag	ge of stu	dents w	ho neve	r saw a	dentist (	for a ch	eck-up,	exam, t	eeth cle	aning, o	or other	dental			·
work)												1.9	1.9	5.0	No linear change	Not available	No change
QN87:	Percenta	age of st	udents v	who had	l ever be	een told	by a doo	ctor or n	urse tha	it they h	ad asthi	na			,		·
											32.3	25.7	26.5	27.5	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 High School Survey Anne Arundel County Trend Analysis Report**

Hispanic

ite-Add	ed			Н	ealth R	isk Beha	avior ar	nd 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			
QN90:	Percenta	age of s	tudents	who are	transge	nder							5.4	2.8	No linear change	Not available <sup>§</sup>	No change
QN94:	Percenta	age of s	tudents	who sm	oked a v	vhole ci	garette t	pefore a	ge 13 ye	ears (for	the firs	12.6	10.6	8.2	Decreased, 2013-2018	Not available	No change
QN98: day duri						oacco in	a hooka	th, narg	hile, or o	other typ	pe of wa	aterpipe	(on at le	east 1	No linear change	Not available	No change
QN101: oil, or T			students	s who ha	ave ever	used an	electro	nic vapo	or produ	ct to sm	oke ma	rijuana,	THC or 11.9	hash	Increased, 2016-2018	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.

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

				He	ealth Ri	isk Beh	avior an	d Perce	entages						Linear Change <sup>*</sup>	Quadratic Change*	Change fro 2016-201
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2014	2016	2018	<u> </u>		
				who thi	ink they	definite	ely or pr	obably v	will smo	oke a cig	garette, o	cigar, c	igarillo,	or	-		
N102: I				who thi	ink they	definite	ely or pr	obably	will smo	oke a cig	garette, o	cigar, c	_		No linear change	Not available <sup>§</sup>	Decrease
				who thi	ink they	definite	ely or pr	obably	will smo	bke a cig	garette, o	cigar, c	igarillo, 27.3	or 19.0	No linear change	Not available <sup>§</sup>	Decrease
ttle ciga	r in the	next ye	ear students	who us	ed flavo	ored toba	acco pro	ducts (f	lavored	cigars,	cigarillo	os, or li	27.3	19.0	No linear change	Not available <sup>§</sup>	Decreas

14.0 12.1

5.2 Decreased, 2014-2018

41.8 38.2 28.5 30.6 Decreased, 2013-2018

Not available

Not available

QN106: Percentage of students who live with someone who now smokes cigarettes or cigars

Hispanic

the survey)

Decreased

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 High School Survey Anne Arundel County Trend Analysis Report

				Н	ealth Ri	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			
QN107: allowed											is that s	moking	is not				
													82.3	81.6	No linear change	Not available <sup>§</sup>	No change
					ere in th	ne same	room w	ith some	eone wh	o was si	moking	(on at l			No linear change	Not available <sup>§</sup>	No change
					ere in th	ne same	room wi	ith some	eone wh	o was si	moking	(on at l			No linear change  No linear change	Not available <sup>§</sup> Not available	No change
QN108: during the QN110: school y	he 7 day	s before	e the sur	vey)		·	·	·					east one	day 29.8			

44.1 44.1 49.9 50.4

No linear change

QN117: Percentage of students who say definitely yes or probably yes that young people who smoke have more

friends

Hispanic

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 Ri	isk Beha	avior ar	nd Perce	entages						Linear Change*	Quadratic Change*	Change fro 2016-201
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013 2	2014 2	2016 2	018			
		tage of	students	who sa	y defini	tely yes	or prob	ably yes	that sm	oking ma	akes your	ng peopl	le look				
N118: ol or fi		tage of	students	who sa	y defini	tely yes	or prob	ably yes	s that sm		·			.8	Increased, 2013-2018	Not available <sup>§</sup>	No chans
		tage of	students	who sa	y defini	tely yes	or prob	ably yes	s that sm		·		le look ).2 34	.8	Increased, 2013-2018	Not available <sup>§</sup>	No chang
ol or fi	t in Percen	tage of	students	who we	ould fee		rtable se			3	·	2.5 30	0.2 34	.8 1	Increased, 2013-2018	Not available <sup>§</sup>	No chan

<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.