Analysis of Youth Level of Service (YLS) Data:
Statewide Data Gathered from Initial Case Assessments in 2010-2014

Presentation for:

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What is the Youth Level of Service (YLS)?

- The Youth Level of Service (YLS) is a risk/needs assessment tool

- It is designed to identify a juvenile's overall **risk** to re-offend (Low, Moderate, High, or Very High)
  - Addresses the **"Who":** Which juveniles will most likely require interventions

- It is also designed to identify a juvenile's criminogenic **needs** (across eight different domain areas)
  - Addresses the **"What":** Which specific criminogenic needs must be addressed through interventions to reduce re-offending
  - These criminogenic needs are addressed in a case plan

- The tool also gauges **responsivity** factors, which are personal characteristics that influence a youth's ability and motivation to learn
  - Addresses the **"How":** How to match interventions based on the individual's traits

- **End goal**: Reduce the juvenile's likelihood of recidivism

Criminogenic Needs Identified by the Youth Level of Service (YLS)

- Prior and Current Offenses (anti-social history (static))*

- Attitudes/Orientation (anti-social thinking)*

- Personality/Behavior (anti-social temperament)*

- Peer Relations (anti-social companions)*

- Family Circumstances*

- Substance Abuse

- Education/Employment

- Leisure/Recreation

* Domains that research has shown to be the strongest predictors

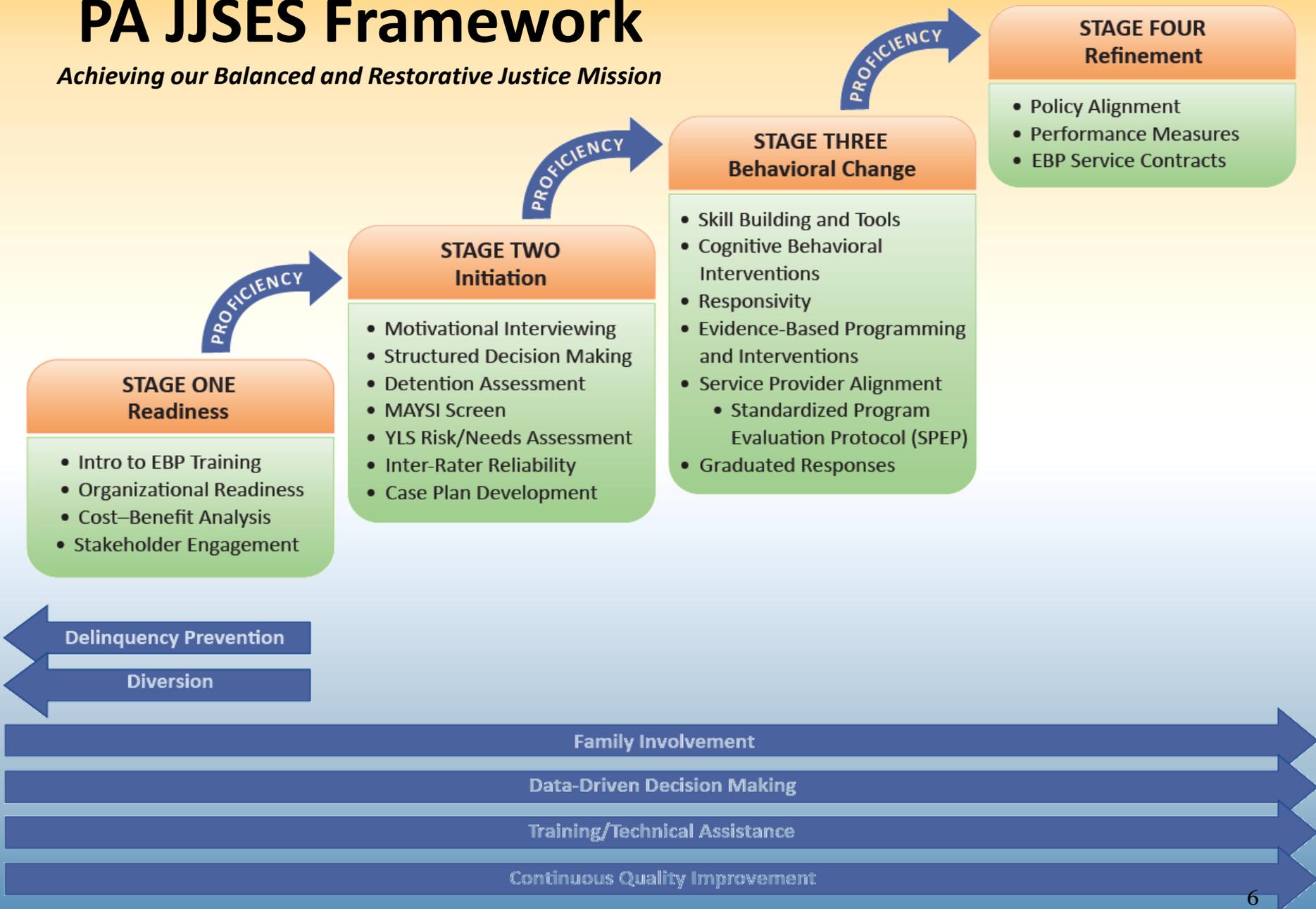# Implementation of the Youth Level of Service (YLS) in Pennsylvania

- Pennsylvania Council of Chief Juvenile Probation Officers- Research Committee (2005)
- NYSAP Technical Assistance- Dr. Gina Vincent (2008)
- Pennsylvania Council of Chief Juvenile Probation Officers- Executive Committee (2008)
- Training on tool occurred in four phases (2009)
- Contained in JCJC's Pennsylvania Juvenile Case Management System (PaJCMS) (2010)
- Development of a Service Matrix in each county
- Standardized Case Plan Development in PaJCMS
- Continuous Quality Improvement – data reports
- JJSES Assessment/Case Plan Committee

Why the Youth Level of Service (YLS) in Pennsylvania?

- Includes risk, need, and responsivity factors

- Considerable independent research evidence
  - Inter-rater reliability
  - Predictive validity
  - Validated for both girls and boys

- Includes option, with documentation of rationale, for limited professional override of assigned risk level

- Strong support for statewide implementation

PA JJSES Framework

Achieving our Balanced and Restorative Justice Mission

STAGE ONE
Readiness

- Intro to EBP Training
- Organizational Readiness
- Cost–Benefit Analysis
- Stakeholder Engagement

PROFICIENCY →

STAGE TWO
Initiation

- Motivational Interviewing
- Structured Decision Making
- Detention Assessment
- MAYSI Screen
- YLS Risk/Needs Assessment
- Inter-Rater Reliability
- Case Plan Development

PROFICIENCY →

STAGE THREE
Behavioral Change

- Skill Building and Tools
- Cognitive Behavioral Interventions
- Responsivity
- Evidence-Based Programming and Interventions
- Service Provider Alignment
  - Standardized Program Evaluation Protocol (SPEP)
- Graduated Responses

PROFICIENCY →

STAGE FOUR
Refinement

- Policy Alignment
- Performance Measures
- EBP Service Contracts

← Delinquency Prevention

← Diversion

Family Involvement →

Data-Driven Decision Making →

Training/Technical Assistance →

Continuous Quality Improvement →

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Methodology

- Based on initial Youth Level of Service (YLS) assessment conducted for juveniles who had a case opened with a Pennsylvania juvenile probation department in 2010, 2011, 2012, 2013, and 2014.

- The number of initial assessments increased consistently each year. The following is a breakdown of the number of assessments conducted each year:
    - **2010**: 3,296
    - **2011**: 6,175
    - **2012**: 8,711
   - **2013**: 10,553
    - **2014**: 12,905

Overview of Workshop

1.) General Findings
2.) Gender
3.) Race and Ethnicity
4.) Age at First Referral
5.) Age at Assessment
6.) Family Status
7.) Living Arrangement
8.) County Class Size

General Findings

Overall Risk Levels of Juveniles

- Between 2010 and 2014, the overall risk levels of juveniles with initial assessments conducted increased slightly. In 2010, about 49% of youth scored Moderate, High, or Very High. In 2014, the percentage of youth who scored Moderate, High, or Very High increased to about 56%.
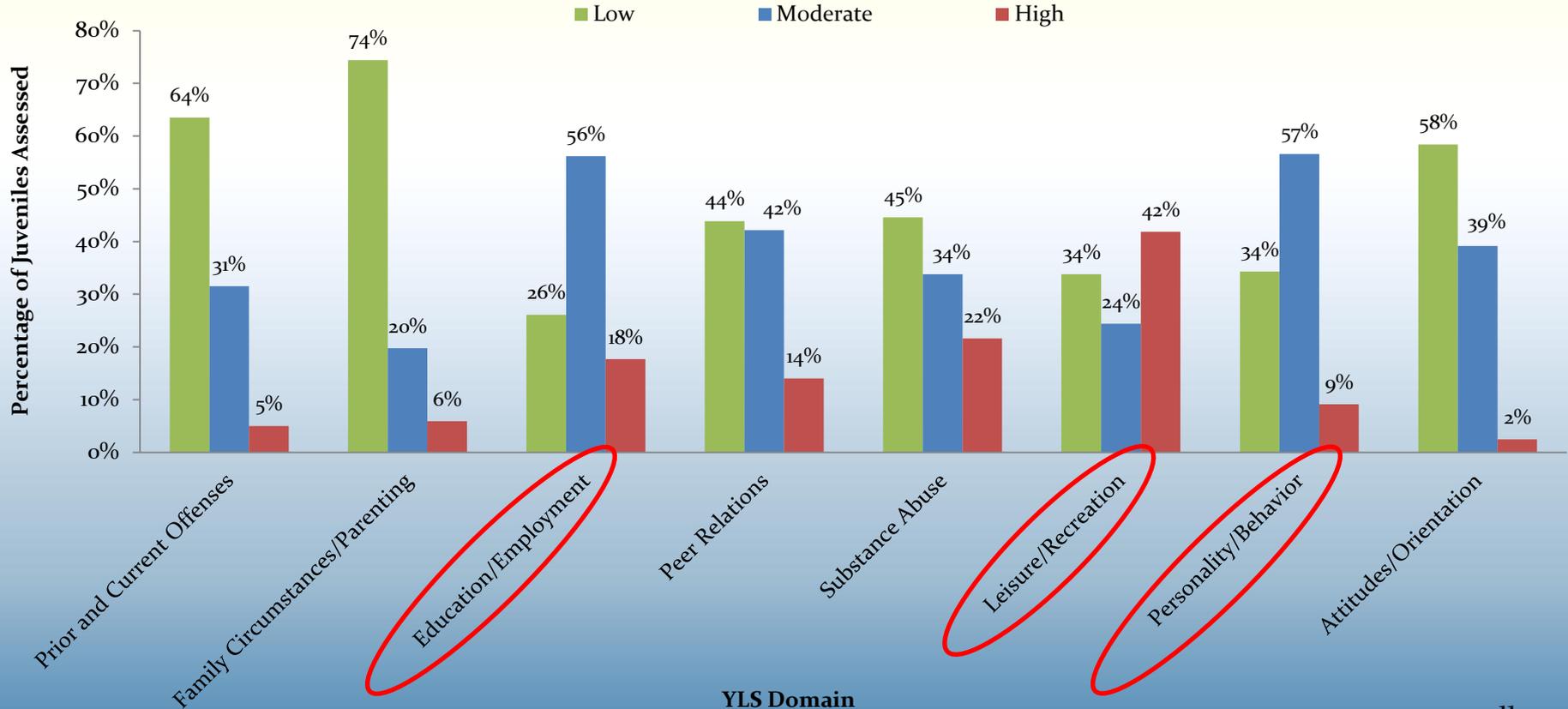
Overall Risk Level of Juveniles:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014
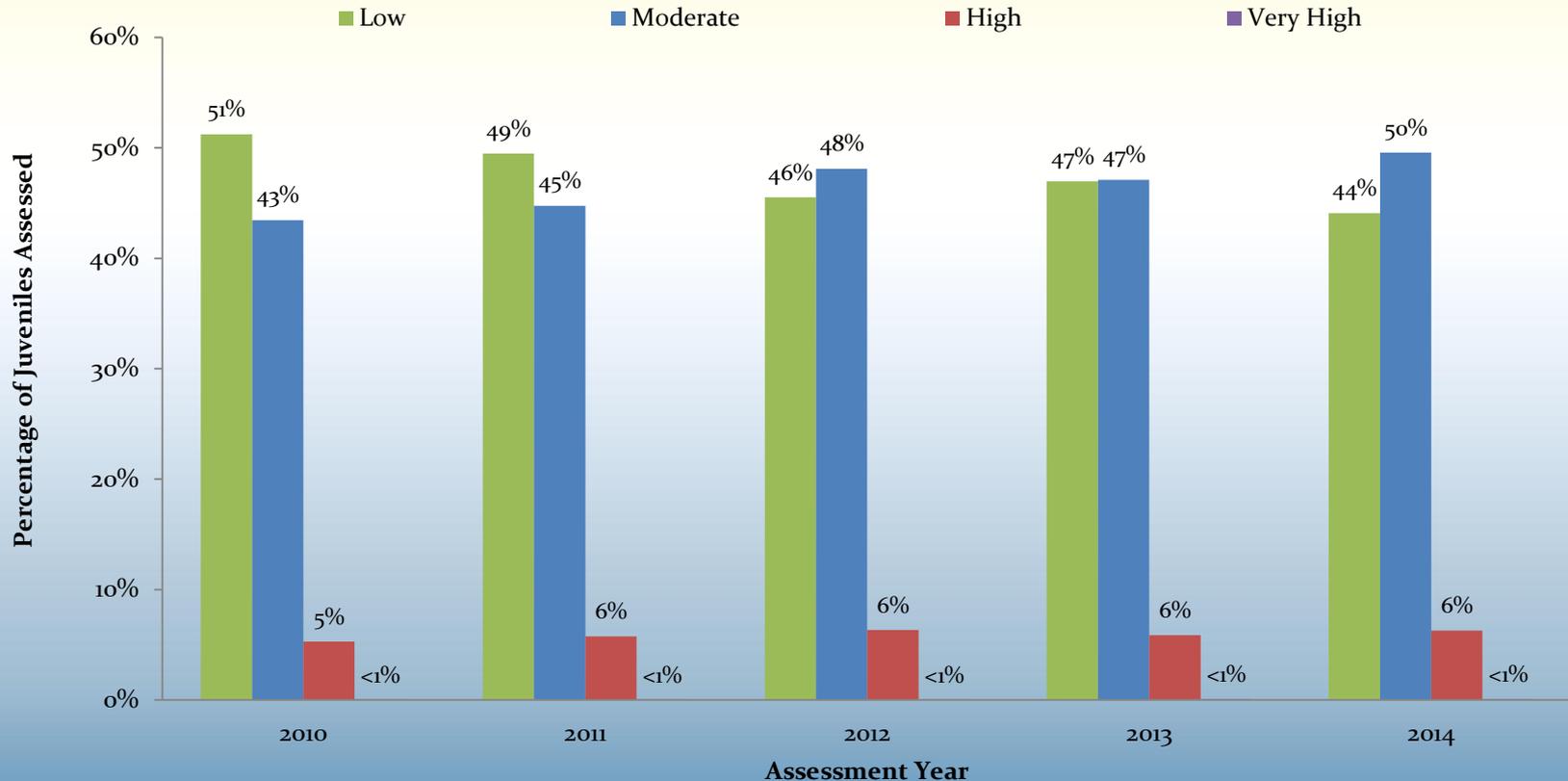
Overall Risk Levels by Domain

- Across the five years' worth of assessments examined, juveniles were most likely to score the highest on the following domains: Education and Employment, Leisure and Recreation, and Personality and Behavior.

Breakdown of Each YLS Domain by Risk Level:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014

Legend: ■ Low ■ Moderate ■ High

Y-axis: Percentage of Juveniles Assessed (0% to 80%)
X-axis: YLS Domain

- Prior and Current Offenses: 64%, 31%, 5%
- Family Circumstances/Parenting: 74%, 20%, 6%
- Education/Employment: 26%, 56%, 18%
- Peer Relations: 44%, 42%, 14%
- Substance Abuse: 45%, 34%, 22%
- Leisure/Recreation: 34%, 24%, 42%
- Personality/Behavior: 34%, 57%, 9%
- Attitudes/Orientation: 58%, 39%, 2%

Overall Risk Levels by Domain (Continued)

- Across the five years' worth of assessments examined, juveniles were most likely to score the lowest on the Prior and Current Offenses domain, the Family Circumstances and Parenting domain, and the Attitudes and Orientation domain.
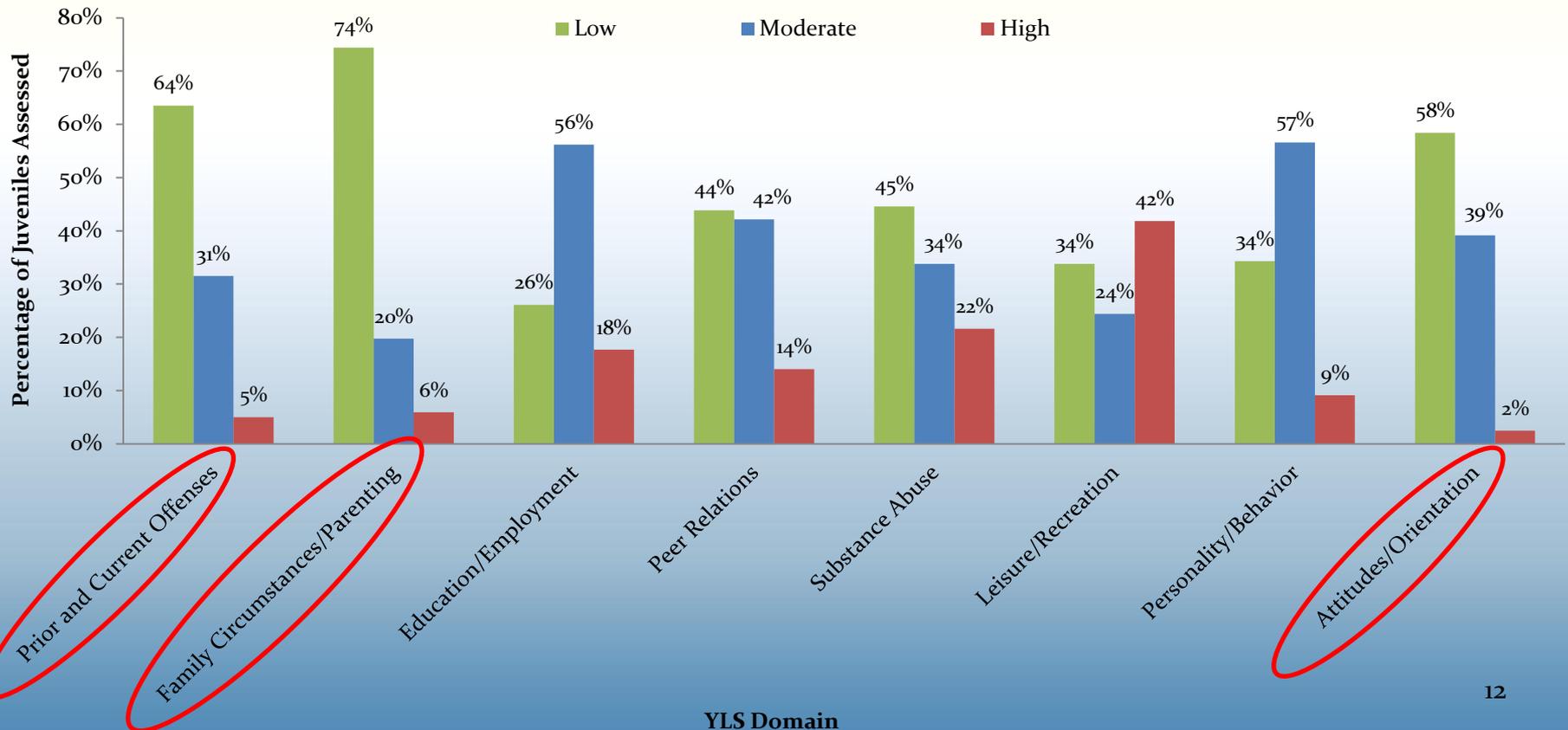

Breakdown of Each YLS Domain by Risk Level:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014
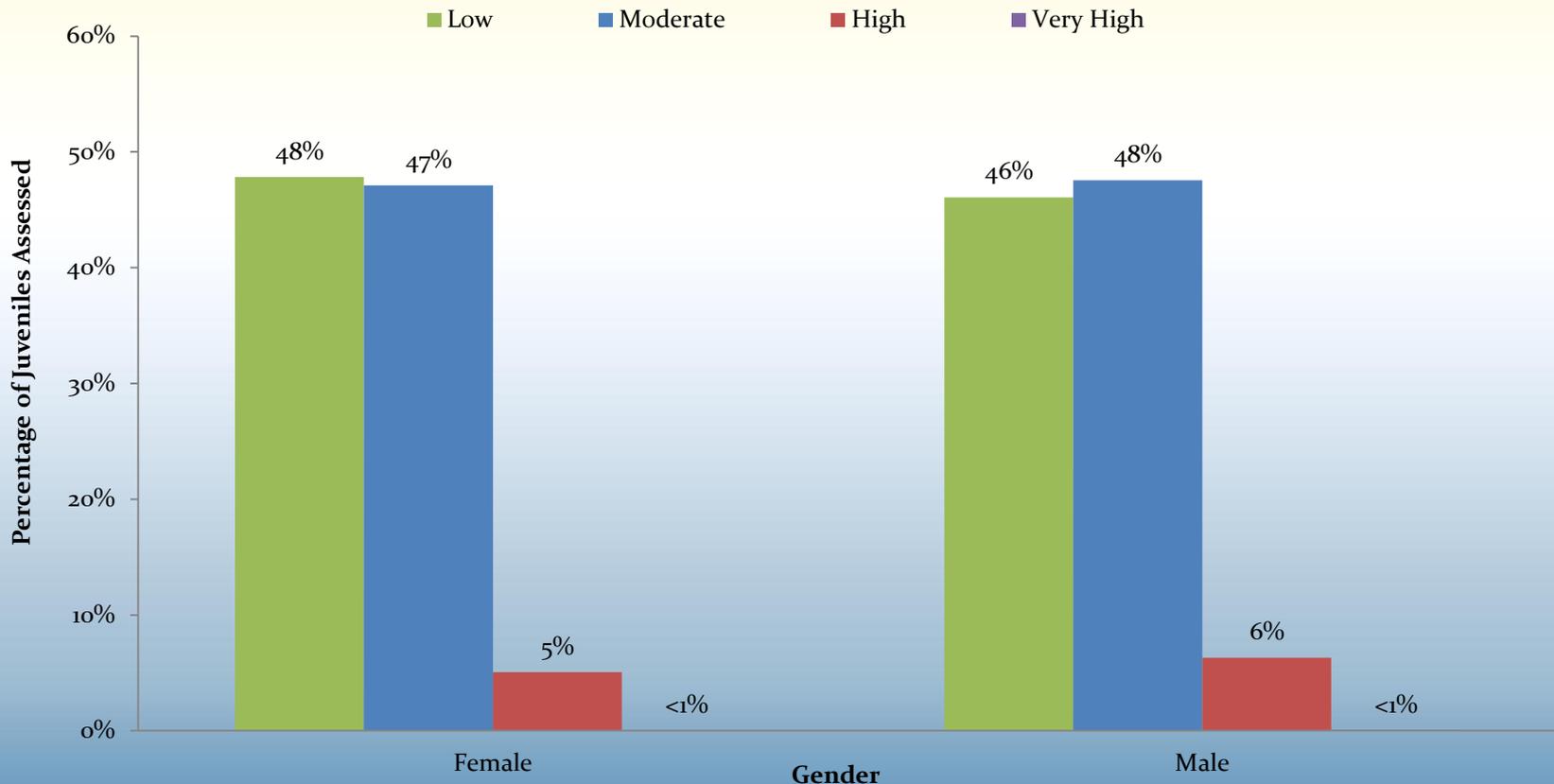
Gender

Overall Risk Levels by Gender

- While the percentage of overall risk levels by gender appear similarly distributed, analysis demonstrated a statistically significant relationship between Gender and Overall Risk level – with males demonstrating higher overall risk levels than females.

Breakdown of Overall Risk Levels by Gender:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014

Legend: ■ Low ■ Moderate ■ High ■ Very High

Female: Low 48%, Moderate 47%, High 5%, Very High <1%
Male: Low 46%, Moderate 48%, High 6%, Very High <1%

Y-axis: Percentage of Juveniles Assessed (0% to 60%)
X-axis: Gender

Overall Risk * Gender: Pearson Correlation = .051; *p* = .000

Domain Scores by Gender:
Percentage of Juveniles Who Scored Low, Moderate, and High

	Prior and Current Offenses			Family Circumstances/ Parenting			Education/ Employment			Peer Relations			Substance Abuse			Leisure/ Recreation			Personality/ Behavior			Attitudes/ Orientation		
	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High
Male (n=32,010)	62%	32%	6%	75%	19%	6%	26%	57%	18%	43%	42%	15%	43%	34%	23%	35%	24%	41%	35%	56%	9%	57%	40%	3%
Female (n=9,627)	68%	29%	3%	72%	21%	7%	28%	55%	17%	48%	41%	11%	51%	32%	17%	31%	24%	45%	33%	57%	10%	62%	36%	2%

*Categories may not sum to 100% due to rounding.

Correlation Matrix

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Year	1														
2 Age at Assessment	-.005	1													
3 Age First Referral	**-.040*****	**.639*****	1												
4 Gender	.006	**.020*****	**-.044*****	1											
5 Living Arrangement	**.079*****	**-.027*****	**-.131*****	**-.048*****	1										
6 Family Status	**.111*****	**-.060*****	**-.178*****	**-.049*****	**.777*****	1									
7 Race / Ethnicity	**.121*****	**-.079*****	**-.220*****	**-.029*****	**.252*****	**.328*****	1								
8 Prior and Current Offenses	**.154*****	**.165*****	**-.206*****	**.059*****	**.131*****	**.144*****	**.112*****	1							
9 Family Circumstances	**.010****	**.020*****	**-.091*****	**-.032**	**.147*****	**.131*****	**.037*****	**.316*****	1						
10 Peer Relations	**.030*****	**.112*****	**-.047*****	**.049*****	**.106*****	**.127*****	**.082*****	**.351*****	**.308*****	1					
11 Substance Abuse	**.024*****	**.296*****	**.193*****	**.077*****	**.016*****	.001	**-.089*****	**.247*****	**.210*****	**.379*****	1				
12 Leisure & Recreation	.003	**.030*****	**-.070*****	**-.039*****	**.139*****	**.166*****	**.076*****	**.268*****	**.276*****	**.357*****	**.235*****	1			
13 Personality & Behavior	**.023*****	**-.141*****	**-.180*****	**-.023*****	**.097*****	**.119*****	**.083*****	**.267*****	**.358*****	**.249*****	**.115*****	**.253*****	1		
14 Attitudes & Orientation	**.022*****	**.031*****	**-.115*****	**.036*****	**.111*****	**.127*****	**.116*****	**.369*****	**.396*****	**.357*****	**.255*****	**.327*****	**.448*****	1	
15 Education & Employment	**.035*****	**-.138*****	**-.172*****	**.019*****	**.120*****	**.155*****	**.149*****	**.244*****	**.283*****	**.283*****	**.149*****	**.312*****	**.435*****	**.388*****	1

*** $p < .05$; *** $p < .01$*

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Domain Scores by Gender:
Major Findings

- Males were more likely to score higher than females on the following domains:
    - Prior and Current Offenses
    - Education and Employment
    - Peer Relations
    - Attitudes and Orientation

- Females were more likely to score higher than males on the following domains:
    - Family Circumstances and Parenting
    - Leisure and Recreation
    - Personality and Behavior

- The greatest gap in domain scores (i.e., Low, Moderate, High) between males and females occurred within the Prior and Current Offenses domain and the Substance Abuse domain.

- Both males and females scored highest on the Education and Employment, Leisure and Recreation, and Personality and Behavior domains of the YLS. Over 70% of youth (both males and females) scored either Moderate or High in the Education and Employment domain. Similarly, over 65% of youth (both males and females) scored either Moderate or High on the Leisure and Recreation and the Personality and Behavior domains.

- Both males and females scored lowest on the Prior and Current Offenses domain and the Family Circumstances and Parenting domain.

Race and Ethnicity

Definitions of Race and Ethnicity Categories

- In the following section, race and ethnicity are combined into one category for analysis. For the purposes of this report, the following race and ethnicity categories have been identified:

White Non-Hispanic: Reported as Non-Hispanic for ethnicity and White for race

Black Non-Hispanic: Reported as Non-Hispanic for ethnicity and Black for race

Asian Non-Hispanic: Reported as Non-Hispanic for ethnicity and Asian for race

Multi-Racial Non-Hispanic: Reported as Non-Hispanic for ethnicity and one or more categories for race

Other Non-Hispanic: Reported as Non-Hispanic for ethnicity and one of the following races: American Indian or Alaska Native or Native Hawaiian or Pacific Islander

Hispanic: Reported as Hispanic for ethnicity regardless of reported race

Overall Risk Levels by Race and Ethnicity

- Black Non-Hispanic juveniles, Multi-Racial Non-Hispanic juveniles, and Hispanic juveniles had higher overall risk levels, on average, than White Non-Hispanic juveniles, Asian Non-Hispanic juveniles and Other Non-Hispanic juveniles.

**Breakdown of Overall Risk Levels by Race and Ethnicity:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014**
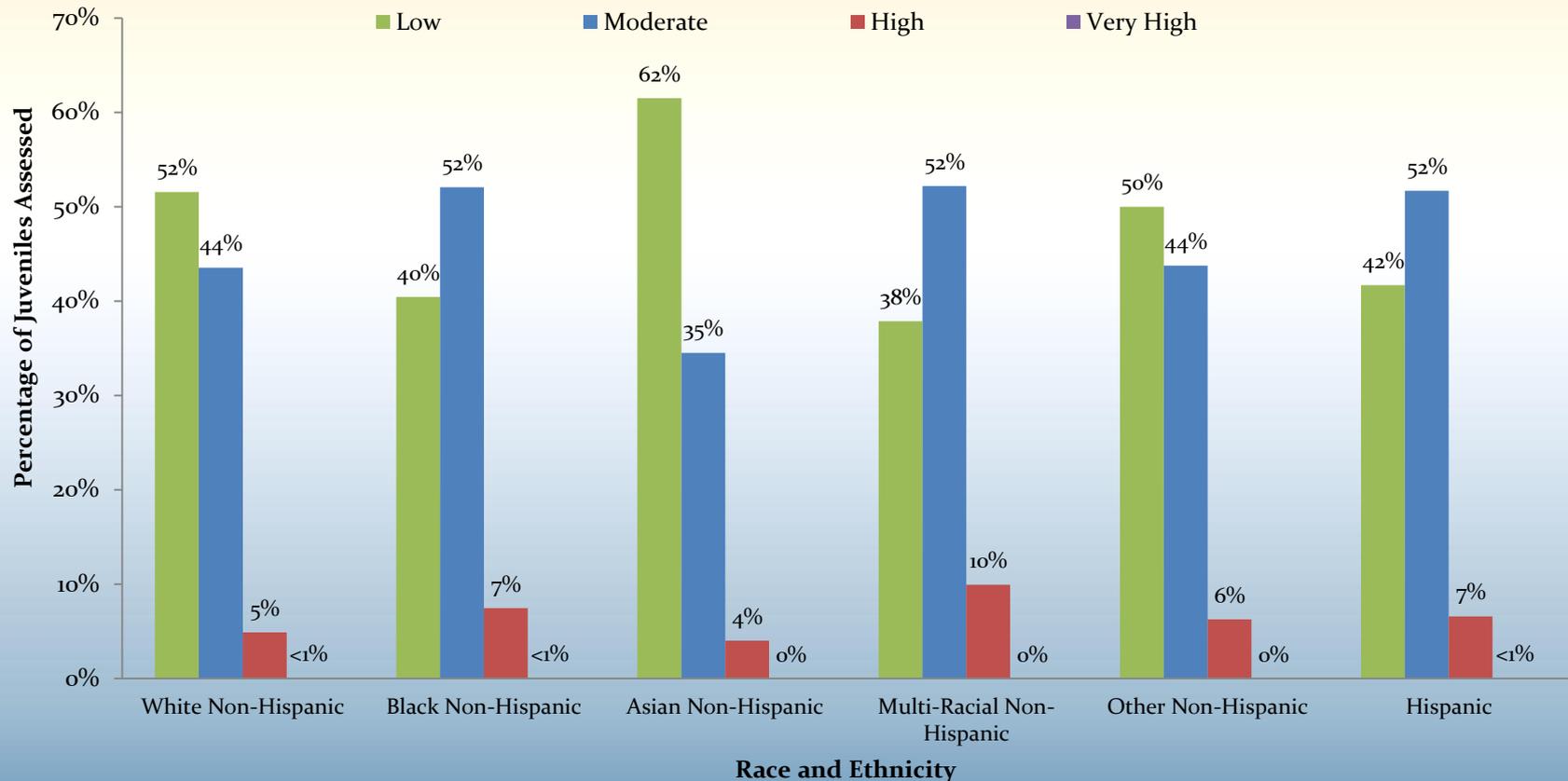
Domain Scores by Race and Ethnicity:
Percentage of Juveniles Who Scored Low, Moderate, and High

	Prior and Current Offenses			Family Circumstances/ Parenting			Education/ Employment			Peer Relations			Substance Abuse			Leisure/ Recreation			Personality/ Behavior			Attitudes/ Orientation		
	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High
White Non-Hispanic (n=21,521)	68%	29%	3%	76%	18%	5%	32%	54%	14%	47%	42%	12%	42%	33%	25%	37%	24%	39%	39%	53%	8%	64%	34%	2%
Black Non-Hispanic (n=12,877)	56%	36%	7%	72%	21%	7%	20%	57%	22%	40%	44%	16%	48%	35%	17%	32%	25%	43%	29%	60%	10%	50%	46%	3%
Asian Non-Hispanic (n=200)	74%	20%	7%	76%	20%	5%	36%	57%	7%	55%	35%	11%	50%	33%	18%	39%	22%	40%	51%	45%	5%	68%	31%	2%
Multi-Racial Non-Hispanic (n=1,006)	57%	34%	9%	67%	25%	8%	22%	55%	22%	40%	44%	16%	41%	35%	24%	30%	24%	46%	28%	61%	11%	52%	44%	4%
Other Non-Hispanic (n=32)	69%	28%	3%	78%	19%	3%	16%	66%	19%	56%	41%	3%	47%	41%	13%	22%	41%	38%	31%	59%	9%	59%	41%	0%
Hispanic (n=5,703)	63%	32%	5%	73%	21%	6%	18%	61%	22%	42%	40%	18%	48%	32%	19%	24%	24%	51%	29%	62%	10%	56%	42%	2%

*Categories may not sum to 100% due to rounding.

Correlation Matrix

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Year	1														
2 Age at Assessment	-.005	1													
3 Age First Referral	**-.040*****	**.639*****	1												
4 Gender	.006	**.020*****	**-.044*****	1											
5 Living Arrangement	**.079*****	**-.027*****	**-.131*****	**-.048*****	1										
6 Family Status	**.111*****	**-.060*****	**-.178*****	**-.049*****	**.777*****	1									
7 Race / Ethnicity	**.121*****	**-.079*****	**-.220*****	**-.029*****	**.252*****	**.328*****	1								
8 Prior and Current Offenses	**.154*****	**.165*****	**-.206*****	**.059*****	**.131*****	**.144*****	**.112*****	1							
9 Family Circumstances	**.010****	**.020*****	**-.091*****	**-.032*****	**.147*****	**.131*****	**.037*****	**.316*****	1						
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13 Personality & Behavior	**.023*****	**-.141*****	**-.180*****	**-.023*****	**.097*****	**.119*****	**.083*****	**.267*****	**.358*****	**.249*****	**.115*****	**.253*****	1		
14 Attitudes & Orientation	**.022*****	**.031*****	**-.115*****	**.036*****	**.111*****	**.127*****	**.116*****	**.369*****	**.396*****	**.357*****	**.255*****	**.327*****	**.448*****	1	
15 Education & Employment	**.035*****	**-.138*****	**-.172*****	**.019*****	**.120*****	**.155*****	**.149*****	**.244*****	**.283*****	**.283*****	**.149*****	**.312*****	**.435*****	**.388*****	1

*** p < .05; *** p < .01*

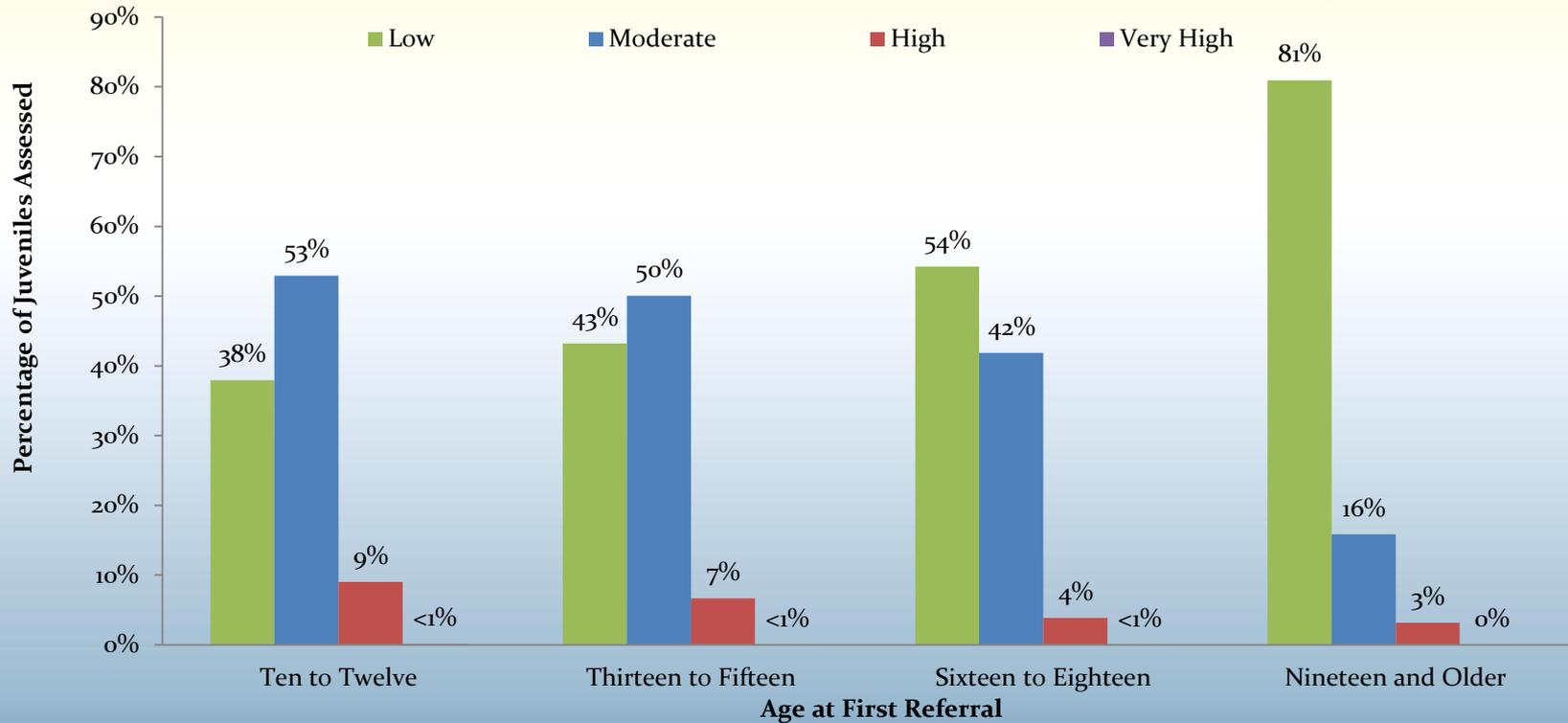# Domain Scores by Race and Ethnicity: Major Findings

- Asian Non-Hispanic juveniles, on average, had the lowest overall risk levels.

- Black Non-Hispanic juveniles, Multi-Racial Non-Hispanic juveniles, Other Non-Hispanic juveniles, and Hispanic juveniles consistently scored higher than White Non-Hispanic juveniles and Asian Non-Hispanic juveniles on every YLS domain except Substance Abuse.

- Based upon percentages, Asian Non-Hispanic juveniles consistently scored lower than the other races/ethnicities on every YLS domain. The number of juveniles within this category of race and ethnicity is too small relative to the overall sample to evaluate significance.

- The following is a breakdown of the two YLS domains that each race/ethnicity scored the highest on:
    o White Non-Hispanic: Education and Employment; Leisure and Recreation
    o Black Non-Hispanic: Education and Employment; Personality and Behavior
    o Asian Non-Hispanic: Education and Employment; Leisure and Recreation
    o Multi-Racial Non-Hispanic: Education and Employment; Personality and Behavior
    o Other Non-Hispanic: Education and Employment; Leisure and Recreation
    o Hispanic: Education and Employment; Leisure and Recreation

Age at First Referral

Overall Risk Levels by Age at First Referral

- Juveniles aged ten to twelve at the time of their first referral ever to a juvenile probation department had higher overall risk levels, on average, than juveniles aged thirteen to fifteen, sixteen to eighteen, and nineteen and older.

- Furthermore, the older the juvenile was at the time of their first ever referral to a juvenile probation department, the lower their over risk levels.

Breakdown of Risk Level by Age at First Referral:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014

Legend: Low, Moderate, High, Very High

Age at First Referral	Low	Moderate	High	Very High
Ten to Twelve	38%	53%	9%	<1%
Thirteen to Fifteen	43%	50%	7%	<1%
Sixteen to Eighteen	54%	42%	4%	<1%
Nineteen and Older	81%	16%	3%	0%

Y-axis: Percentage of Juveniles Assessed
X-axis: Age at First Referral

Domain Scores by Age at First Referral:
Percentage of Juveniles Who Scored Low, Moderate, and High

	Prior and Current Offenses			Family Circumstances/ Parenting			Education/ Employment			Peer Relations			Substance Abuse			Leisure/ Recreation			Personality/ Behavior			Attitudes/ Orientation		
	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High
Ten to Twelve (n=6,314)	49%	41%	10%	68%	24%	8%	19%	56%	25%	44%	40%	16%	63%	24%	13%	31%	26%	44%	23%	62%	15%	50%	46%	4%
Thirteen to Fifteen (n=19,933)	60%	34%	6%	73%	21%	6%	22%	58%	20%	42%	42%	15%	48%	33%	19%	31%	25%	45%	30%	60%	10%	56%	41%	3%
Sixteen to Eighteen (n=15,182)	74%	23%	2%	79%	16%	4%	34%	54%	12%	45%	43%	11%	32%	40%	28%	39%	24%	38%	44%	50%	6%	65%	34%	1%
Nineteen and Older (n=63)	73%	21%	6%	83%	11%	6%	67%	33%	0%	62%	27%	11%	52%	30%	17%	54%	17%	29%	68%	25%	6%	81%	19%	0%

*Categories may not sum to 100% due to rounding.

Correlation Matrix

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Year	1														
2 Age at Assessment	-.005	1													
3 Age First Referral	-.040***	.639***	1												
4 Gender	.006	.020***	-.044***	1											
5 Living Arrangement	.079***	-.027***	-.131***	-.048***	1										
6 Family Status	.111***	-.060***	-.178***	-.049***	.777***	1									
7 Race / Ethnicity	.121***	-.079***	-.220***	-.029***	.252***	.328***	1								
8 Prior and Current Offenses	.154***	.165***	-.206***	.059***	.131***	.144***	.112***	1							
9 Family Circumstances	.010**	.020***	-.091***	-.032***	.147***	.131***	.037***	.316***	1						
10 Peer Relations	.030***	.112***	-.047***	.049***	.106***	.127***	.082**	.351***	.308***	1					
11 Substance Abuse	.024***	.296***	.193***	.077***	.016***	.001	-.089***	.247***	.210***	.379***	1				
12 Leisure & Recreation	.003	.030***	-.070***	-.039***	.139***	.166***	.076***	.268***	.276***	.357***	.235***	1			
13 Personality & Behavior	.023***	-.141***	-.180***	-.023***	.097***	.119***	.083***	.267***	.358***	.249***	.115***	.253***	1		
14 Attitudes & Orientation	.022***	.031***	-.115***	.036***	.111***	.127***	.116***	.369***	.396***	.357***	.255***	.327***	.448***	1	
15 Education & Employment	.035***	-.138***	-.172***	.019***	.120***	.155***	.149***	.244***	.283***	.283***	.149***	.312***	.435***	.388***	1

** p < .05; *** p < .01

Domain Scores by Age at First Referral: Major Findings

- Juveniles aged ten to twelve at the time of their first referral scored higher, on average, than the remaining age groups on the following YLS domains:
  - Prior and Current Offenses
  - Family Circumstances and Parenting
  - Education and Employment
  - Personality and Behavior
  - Attitudes and Orientation

- Juveniles aged thirteen to fifteen at the time of their first referral scored higher, on average, than the remaining age groups on the following YLS domain:
  - Peer Relations

- Juveniles aged sixteen to eighteen at the time of their first referral scored higher, on average, than the remaining age groups on the following YLS domain:
  - Substance Abuse

Domain Scores by Age at First Referral:
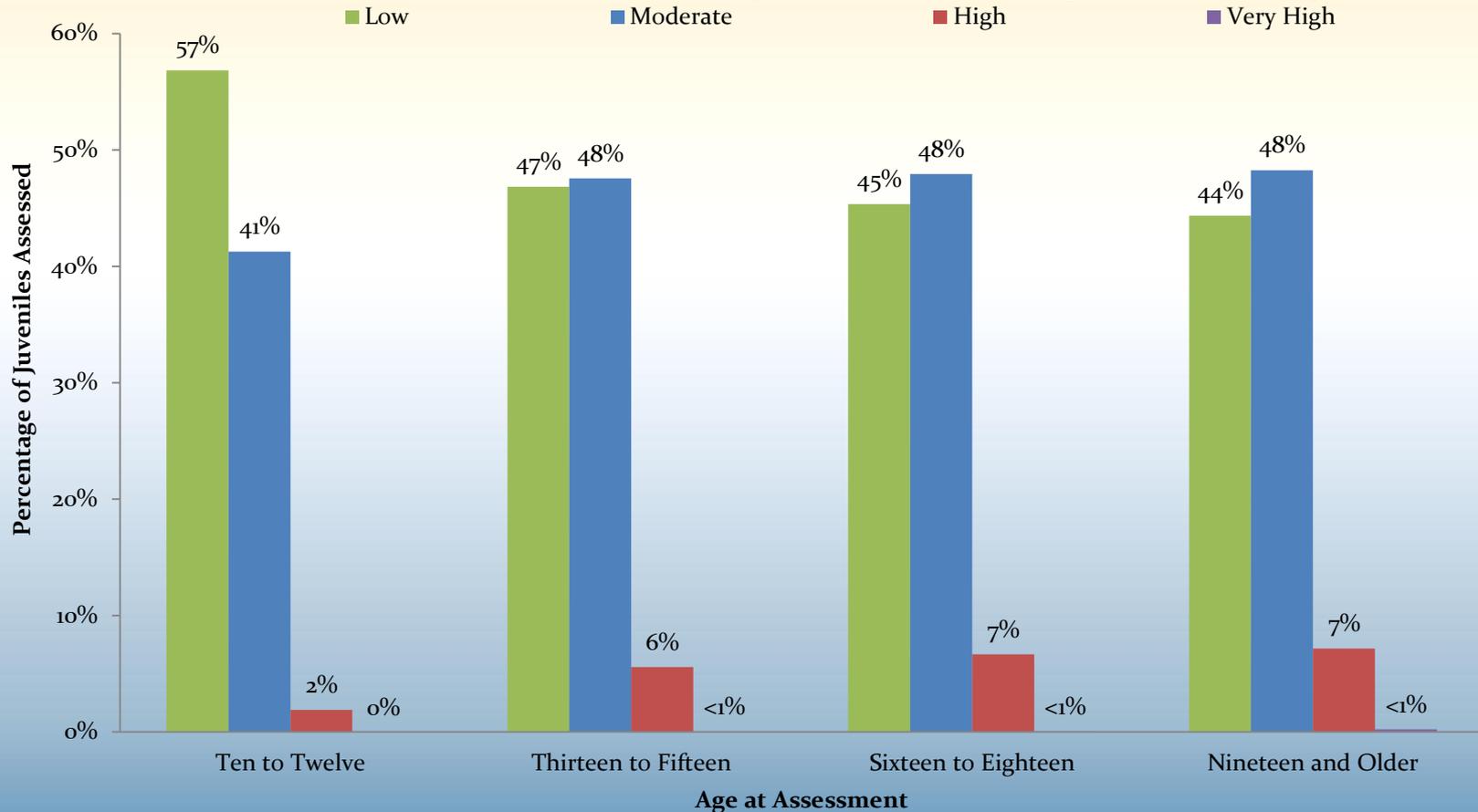## Major Findings (Continued)

- Juveniles aged ten to twelve and thirteen to fifteen at the time of their first referral scored higher, on average, than the remaining age groups on the following YLS domain:
    - o   Leisure and Recreation

- The following is a breakdown of the two YLS domains that each age group scored the highest on:
    - o Ten to Twelve: Education and Employment; Personality and Behavior
    - o Thirteen to Fifteen: Education and Employment; Personality and Behavior
    - o Sixteen to Eighteen: Education and Employment; Substance Abuse
    - o Nineteen and Over: Substance Abuse; Leisure and Recreation

Age at Assessment

Overall Risk Levels by Age at Assessment

- Juveniles aged ten to twelve at the time of assessment had lower overall risk levels, on average, than juveniles aged thirteen to fifteen, sixteen to eighteen, and nineteen and older. The remaining age groups did not vary significantly on their overall risk levels.

Breakdown of Risk Level by Age at Assessment:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014

Legend: Low (green), Moderate (blue), High (red), Very High (purple)

Age at Assessment	Low	Moderate	High	Very High
Ten to Twelve	57%	41%	2%	0%
Thirteen to Fifteen	47%	48%	6%	<1%
Sixteen to Eighteen	45%	48%	7%	<1%
Nineteen and Older	44%	48%	7%	<1%

Y-axis: Percentage of Juveniles Assessed
X-axis: Age at Assessment

Domain Scores by Age at Assessment:
Percentage of Juveniles Who Scored Low, Moderate, and High

	Prior and Current Offenses			Family Circumstances/ Parenting			Education/ Employment			Peer Relations			Substance Abuse			Leisure/ Recreation			Personality/ Behavior			Attitudes/ Orientation		
	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High
Ten to Twelve (n=2,321)	80%	20%	0%	80%	16%	4%	22%	57%	21%	65%	30%	5%	92%	7%	2%	42%	27%	31%	26%	59%	15%	65%	34%	1%
Thirteen to Fifteen (n=14,587)	69%	28%	3%	74%	20%	6%	20%	58%	21%	47%	41%	13%	57%	29%	14%	33%	25%	42%	28%	60%	12%	58%	40%	2%
Sixteen to Eighteen (n=23,810)	59%	34%	6%	74%	20%	6%	29%	55%	15%	40%	44%	16%	32%	39%	28%	33%	24%	43%	38%	55%	7%	58%	39%	3%
Nineteen and Older (n=922)	39%	44%	17%	71%	22%	7%	50%	43%	7%	39%	43%	18%	37%	40%	23%	31%	27%	42%	46%	49%	4%	55%	39%	6%

*Categories may not sum to 100% due to rounding.

Correlation Matrix

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Year	1														
2 Age at Assessment	-.005	1													
3 Age First Referral	-.040***	.639***	1												
4 Gender	.006	.020***	-.044***	1											
5 Living Arrangement	.079***	-.027***	-.131***	-.048***	1										
6 Family Status	.111***	-.060***	-.178***	-.049***	.777***	1									
7 Race / Ethnicity	.121***	-.079***	-.220***	-.029***	.252***	.328***	1								
8 Prior and Current Offenses	.154***	.165***	-.206***	.059***	.131***	.144***	.112***	1							
9 Family Circumstances	.010**	.020***	-.091***	-.032***	.147***	.131***	.037***	.316***	1						
10 Peer Relations	.030***	.112***	-.047***	.049***	.106***	.127***	.082**	.351***	.308***	1					
11 Substance Abuse	.024***	.296***	.193***	.077***	.016***	.001	-.089***	.247***	.210***	.379***	1				
12 Leisure & Recreation	.003	.030***	-.070***	-.039***	.139***	.166***	.076***	.268***	.276***	.357***	.235***	1			
13 Personality & Behavior	.023***	-.141***	-.180***	-.023***	.097***	.119***	.083***	.267***	.358***	.249***	.115***	.253***	1		
14 Attitudes & Orientation	.022***	.031***	-.115***	.036***	.111***	.127***	.116***	.369***	.396***	.357***	.255***	.327***	.448***	1	
15 Education & Employment	.035***	-.138***	-.172***	.019***	.120***	.155***	.149***	.244***	.283***	.283***	.149***	.312***	.435***	.388***	1

** $p < .05$; *** $p < .01$

Domain Scores by Age at Assessment: Major Findings

- Juveniles aged ten to twelve at the time of assessment had lower overall risk levels, on average, than juveniles aged thirteen to fifteen, sixteen to eighteen, and nineteen and older. The remaining age groups did not vary significantly on their overall risk levels.

- Juveniles aged ten to twelve at the time of assessment scored higher, on average, than the remaining age groups on the following YLS domain:
  - Personality and Behavior

- Juveniles aged thirteen to fifteen at the time of assessment scored higher, on average, than the remaining age groups on the following YLS domains:
  - Education and Employment

- Juveniles aged sixteen to eighteen at the time of assessment scored higher, on average, than the remaining age groups on the following YLS domains:
  - Substance Abuse

Domain Scores by Age at Assessment: Major Findings (Continued)

- Juveniles aged nineteen and over at the time of assessment scored higher, on average, than the remaining age groups on the following YLS domain:
  - Prior and Current Offenses
  - Family Circumstances and Parenting
  - Peer Relations
  - Leisure and Recreation
  - Attitudes and Orientation

- The following is a breakdown of the two YLS domains that each age group scored the highest on:
  - Ten to Twelve: Education and Employment; Personality and Behavior
  - Thirteen to Fifteen: Education and Employment; Personality and Behavior
  - Sixteen to Eighteen: Education and Employment; Substance Abuse
  - Nineteen and Over: Substance Abuse; Leisure and Recreation

Family Status

Definitions of Family Status Categories

- In the following section, the relationship between a juvenile's family status and his or her YLS scoring is examined. This measure relates to the status of the **biological** parents of the juvenile. Certain family status groups are combined into one category for analysis. For the purposes of this presentation, the following family status categories have been identified:

Married: Juvenile's family status was reported as Married

Separated/Divorced: Juvenile's family status was reported as either Separated or Divorced

Parents Never Married: Juvenile's family status was reported as Parents Never Married

One/Both Parents Deceased: Juvenile's family status was reported as One Parent Deceased or Both Parents Deceased

Other: Juvenile's family status was reported as Other

Overall Risk Levels by Family Status

- Juveniles whose parents were never married had the highest overall risk levels, on average, compared to juveniles whose parents were married, separated or divorced, those with one or both parents deceased, and those who had a family status of other.

- Conversely, juveniles with a family status of married had the lowest overall risk levels, on average, compared to juveniles whose parents were never married, separated or divorced, those with one or both parents deceased, and those who had a family status of other.

Overall Risk Levels by Family Status:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014

Legend: ■ Low ■ Moderate ■ High ■ Very High

Y-axis: Percentage of Juveniles Assessed (0% to 70%)

X-axis: Family Status

Family Status	Low	Moderate	High	Very High
Married	62%	34%	3%	<1%
Separated/Divorced	48%	46%	5%	<1%
Parents Never Married	39%	54%	7%	<1%
One/Both Parents Deceased	43%	50%	7%	<1%
Other	47%	46%	7%	<1%
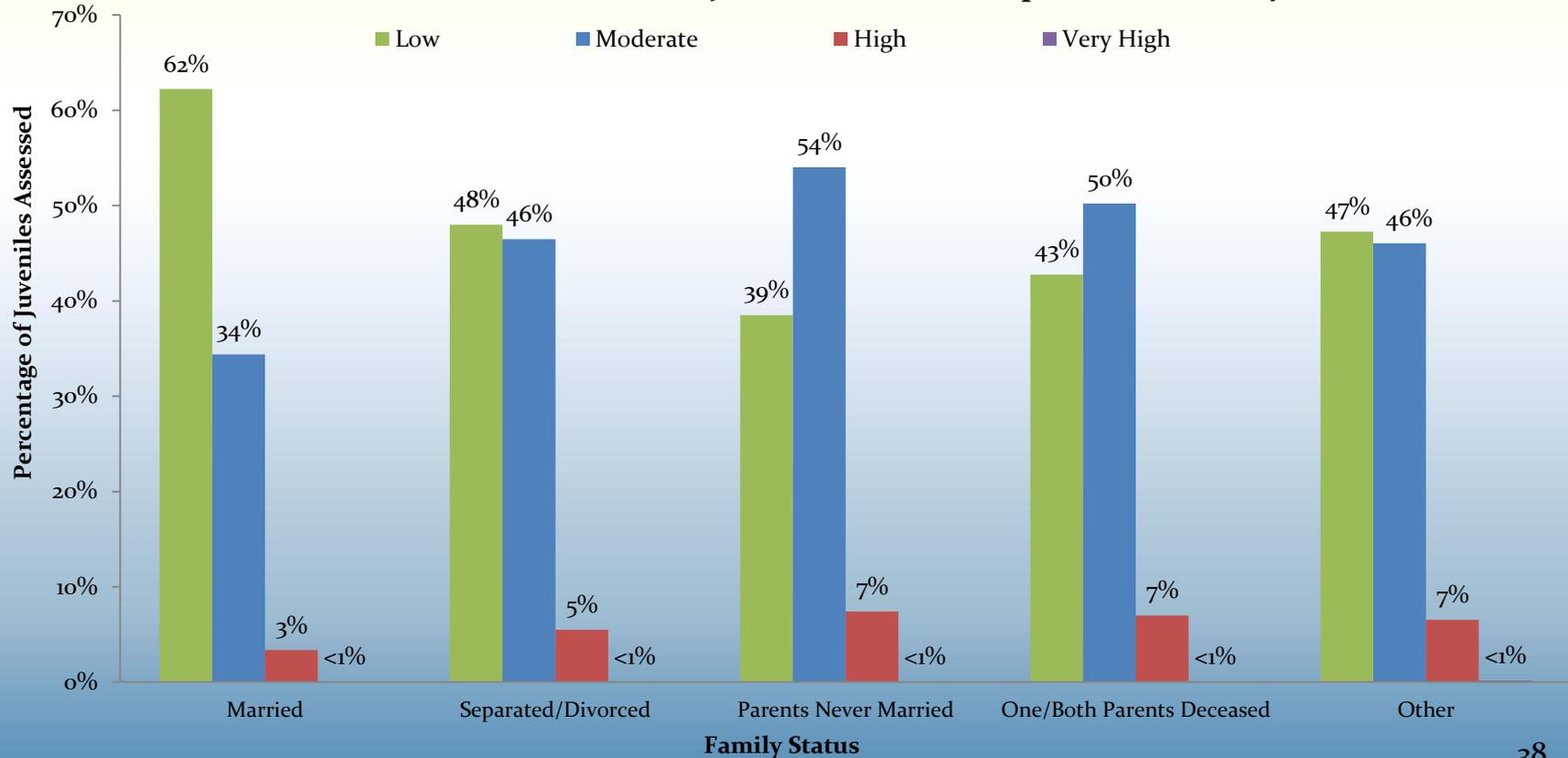
Domain Scores by Family Status:
Percentage of Juveniles Who Scored Low, Moderate, and High

	Prior and Current Offenses			Family Circumstances/ Parenting			Education/ Employment			Peer Relations			Substance Abuse			Leisure/ Recreation			Personality/ Behavior			Attitudes/ Orientation		
	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High
Married (n=8,964)	75%	23%	3%	85%	12%	3%	36%	53%	11%	53%	39%	9%	46%	32%	22%	46%	23%	31%	44%	49%	7%	68%	30%	2%
Separated/ Divorced (n=9,855)	66%	30%	4%	74%	20%	6%	28%	56%	15%	45%	41%	13%	42%	33%	24%	34%	24%	41%	37%	55%	8%	62%	36%	2%
Parents Never Married (n=18,853)	58%	36%	6%	70%	23%	7%	20%	58%	22%	39%	44%	17%	45%	35%	20%	28%	25%	47%	28%	61%	11%	52%	45%	3%
One/Both Parents Deceased (n=2,234)	59%	36%	6%	72%	22%	6%	25%	58%	17%	40%	44%	16%	39%	36%	24%	30%	23%	47%	34%	55%	11%	54%	43%	3%
Other (n=1,331)	59%	35%	6%	70%	23%	7%	29%	55%	16%	45%	40%	15%	47%	32%	20%	37%	25%	39%	35%	56%	8%	61%	36%	3%

*Categories may not sum to 100% due to rounding.

Correlation Matrix

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Year	1														
2	Age at Assessment	-.005	1													
3	Age First Referral	-.040***	.639***	1												
4	Gender	.006	.020***	-.044***	1											
5	Living Arrangement	.079***	-.027***	-.131***	-.048***	1										
6	Family Status	.111***	-.060***	-.178***	-.049***	.777***	1									
7	Race / Ethnicity	.121***	-.079***	-.220***	-.029***	.252***	.328***	1								
8	Prior and Current Offenses	.154***	.165***	-.206***	.059***	.131***	.144***	.112***	1							
9	Family Circumstances	.010**	.020***	-.091***	-.032***	.147***	.131***	.037***	.316***	1						
10	Peer Relations	.030***	.112***	-.047***	.049***	.106***	.127***	.082***	.351***	.308***	1					
11	Substance Abuse	.024***	.296***	.193***	.077***	.016***	.001	-.089***	.247***	.210***	.379***	1				
12	Leisure & Recreation	.003	.030***	-.070***	-.039***	.139***	.166***	.076***	.268***	.276***	.357***	.235***	1			
13	Personality & Behavior	.023***	-.141***	-.180***	-.023***	.097***	.119***	.083***	.267***	.358***	.249***	.115***	.253***	1		
14	Attitudes & Orientation	.022***	.031***	-.115***	.036***	.111***	.127***	.116***	.369***	.396***	.357***	.255***	.327***	.448***	1	
15	Education & Employment	.035***	-.138***	-.172***	.019***	.120***	.155***	.149***	.244***	.283***	.283***	.149***	.312***	.435***	.388***	1

** $p < .05$; *** $p < .01$

Domain Scores by Family Status:
Major Findings

- Juveniles whose parents were never married scored higher, on average, than the remaining family status groups on the following YLS domains:
    - Prior and Current Offenses
    - Education and Employment
    - Peer Relations
    - Leisure and Recreation
    - Personality and Behavior
    - Attitudes and Orientation

- Juveniles with a family status of other and parents never married scored higher, on average, than the remaining family status groups on the following YLS domain:
    - Family Circumstances and Parenting

- The Substance Abuse domain was not statistically significantly related to Family Status.

Domain Scores by Family Status:
Major Findings (Continued)

- Juveniles with one or both parents deceased scored higher, on average, than the remaining family status groups on the following YLS domain:
  - Substance Abuse

- The following is a breakdown of the top YLS domains that each family status category scored the highest on:
  - Married: Education and Employment; Personality and Behavior
  - Separated/Divorced: Education and Employment; Leisure and Recreation
  - Parents Never Married: Education and Employment; Leisure and Recreation; Personality and Behavior
  - One/Both Parents Deceased: Education and Employment; Leisure and Recreation
  - Other: Education and Employment; Personality and Behavior

Living Arrangement

Definitions of Living Arrangement Categories

- In the following section, the relationship between a juvenile's living arrangement and his or her YLS scoring is examined. Certain living arrangement groups are combined into one category for analysis. For the purposes of this report, the following living arrangement categories have been identified:

Both Parents:	Juvenile's living arrangement was reported as Both Parents
Parent and Step Parent:	Juvenile's living arrangement was identified as either Mother and Step Father or Father and Step Mother
One Parent Only:	Juvenile's living arrangement was reported as either Mother only or Father only
Relative or Foster Parents:	Juvenile's living arrangement was identified as either Relative or Foster Parents
Lives on Own:	Juvenile's living arrangement was identified as Lives on Own
Other:	Juvenile's living arrangement was reported as Other

Overall Risk Levels by Living Arrangement

- Juveniles who lived with one parent only, relatives or foster parents, and who had an other living arrangement had higher overall risk scores than juveniles who lived with both parents, a parent and step parent, and who lived on their own.

- Conversely, juveniles who lived with both parents had the lowest overall risk levels, on average, compared to juveniles who lived with a parent and step parent, one parent only, relatives or foster parents, those who lived on their own, and those who had an other living arrangement.

Overall Risk Levels by Living Arrangement:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014

Legend: ■ Low ■ Moderate ■ High ■ Very High

Living Arrangement	Low	Moderate	High	Very High
Both Parents	62%	35%	3%	<1%
Parent and Step Parent	48%	46%	5%	<1%
One Parent Only	42%	51%	7%	<1%
Relative or Foster Parents	35%	56%	9%	<1%
Lives on Own	47%	46%	6%	0%
Other	35%	57%	8%	<1%

Y-axis: Percentage of Juveniles Assessed
X-axis: Living Arrangement
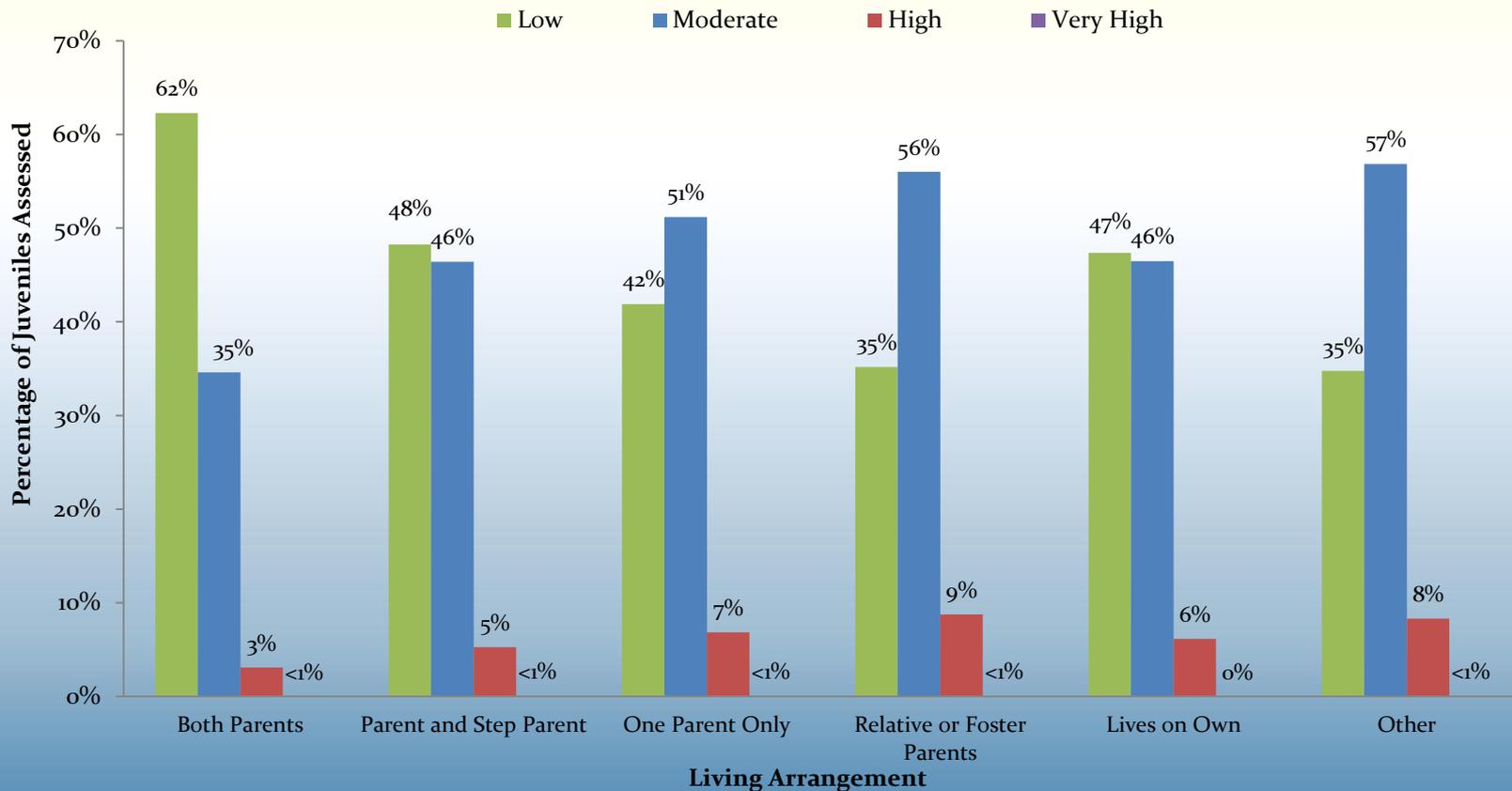
Domain Scores by Living Arrangement:
Percentage of Juveniles Who Scored Low, Moderate, and High

	Prior and Current Offenses			Family Circumstances/ Parenting			Education/ Employment			Peer Relations			Substance Abuse			Leisure/ Recreation			Personality/ Behavior			Attitudes/ Orientation		
	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High
Both Parents (n=9,484)	75%	23%	2%	86%	12%	3%	36%	53%	12%	52%	39%	9%	46%	32%	21%	46%	24%	31%	44%	50%	6%	68%	30%	1%
Parent and Step Parent (n=4,022)	67%	29%	4%	77%	18%	5%	25%	58%	17%	45%	42%	13%	47%	32%	21%	33%	26%	41%	32%	58%	10%	60%	38%	2%
One Parent Only (n=23,021)	60%	34%	6%	72%	21%	6%	23%	57%	20%	41%	43%	16%	43%	35%	22%	30%	24%	46%	32%	58%	10%	55%	42%	3%
Relative or Foster Parent (n=3,144)	55%	37%	8%	61%	28%	11%	22%	58%	20%	39%	45%	16%	44%	34%	22%	28%	24%	48%	26%	62%	11%	51%	45%	4%
Lives On Own (n=114)	60%	32%	9%	69%	23%	8%	39%	51%	11%	39%	45%	16%	35%	36%	29%	31%	31%	39%	40%	52%	8%	61%	38%	2%
Other (n=1,530)	50%	42%	8%	59%	30%	11%	26%	56%	17%	40%	41%	18%	45%	34%	22%	31%	25%	44%	28%	59%	13%	50%	46%	4%

*Categories may not sum to 100% due to rounding.

Correlation Matrix

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Year	1														
2 Age at Assessment	-.005	1													
3 Age First Referral	**-.040*****	**.639*****	1												
4 Gender	.006	**.020*****	**-.044*****	1											
5 Living Arrangement	**.079*****	**-.027*****	**-.131*****	**-.048*****	1										
6 Family Status	**.111*****	**-.060*****	**-.178*****	**-.049*****	**.777*****	1									
7 Race / Ethnicity	**.121*****	**-.079*****	**-.220*****	**-.029*****	**.252*****	**.328*****	1								
8 Prior and Current Offenses	**.154*****	**.165*****	**-.206*****	**.059*****	**.131*****	**.144*****	**.112*****	1							
9 Family Circumstances	**.010****	**.020*****	**-.091*****	**-.032*****	**.147*****	**.131*****	**.037*****	**.316*****	1						
10 Peer Relations	**.030*****	**.112*****	**-.047*****	**.049*****	**.106*****	**.127*****	**.082*****	**.351*****	**.308*****	1					
11 Substance Abuse	**.024*****	**.296*****	**.193*****	**.077*****	**.016*****	.001	**-.089*****	**.247*****	**.210*****	**.379*****	1				
12 Leisure & Recreation	.003	**.030*****	**-.070*****	**-.039*****	**.139*****	**.166*****	**.076*****	**.268*****	**.276*****	**.357*****	**.235*****	1			
13 Personality & Behavior	**.023*****	**-.141*****	**-.180*****	**-.023*****	**.097*****	**.119*****	**.083*****	**.267*****	**.358*****	**.249*****	**.115*****	**.253*****	1		
14 Attitudes & Orientation	**.022*****	**.031*****	**-.115*****	**.036*****	**.111*****	**.127*****	**.116*****	**.369*****	**.396*****	**.357*****	**.255*****	**.327*****	**.448*****	1	
15 Education & Employment	**.035*****	**-.138*****	**-.172*****	**.019*****	**.120*****	**.155*****	**.149*****	**.244*****	**.283*****	**.283*****	**.149*****	**.312*****	**.435*****	**.388*****	1

** p < .05; *** p < .01

Domain Scores by Living Arrangement:
Major Findings

- Juveniles who lived with a relative or foster parent scored higher, on average, than the remaining living arrangement groups on the following YLS domains:
  - o Education and Employment
  - o Leisure and Recreation
  - o Personality and Behavior

- Juveniles who lived one their own scored higher, on average, than the remaining living arrangement groups on the following YLS domain:
  - o Substance Abuse

- Juveniles who had an other living arrangement scored higher, on average, than the remaining living arrangement groups on the following YLS domains:
  - o Prior and Current Offenses
  - o Family Circumstances and Parenting
  - o Attitudes and Orientation

Domain Scores by Living Arrangement:
Major Findings (Continued)

- Juveniles who lived with a relative or foster parent or who lived on their own scored higher, on average, than the remaining living arrangement groups on the following YLS domain:
  - Peer Relations

- The following is a breakdown of the two YLS domains that each living arrangement category scored the highest:
  - Both Parents: Education and Employment; Personality and Behavior
  - Parent and Step Parent: Education and Employment; Personality and Behavior
  - One Parent Only: Education and Employment; Leisure and Recreation
  - Relative or Foster Parents: Education and Employment; Personality and Behavior
  - Lives on Own: Substance Abuse; Leisure and Recreation
  - Other: Education and Employment; Personality and Behavior

County Class Size
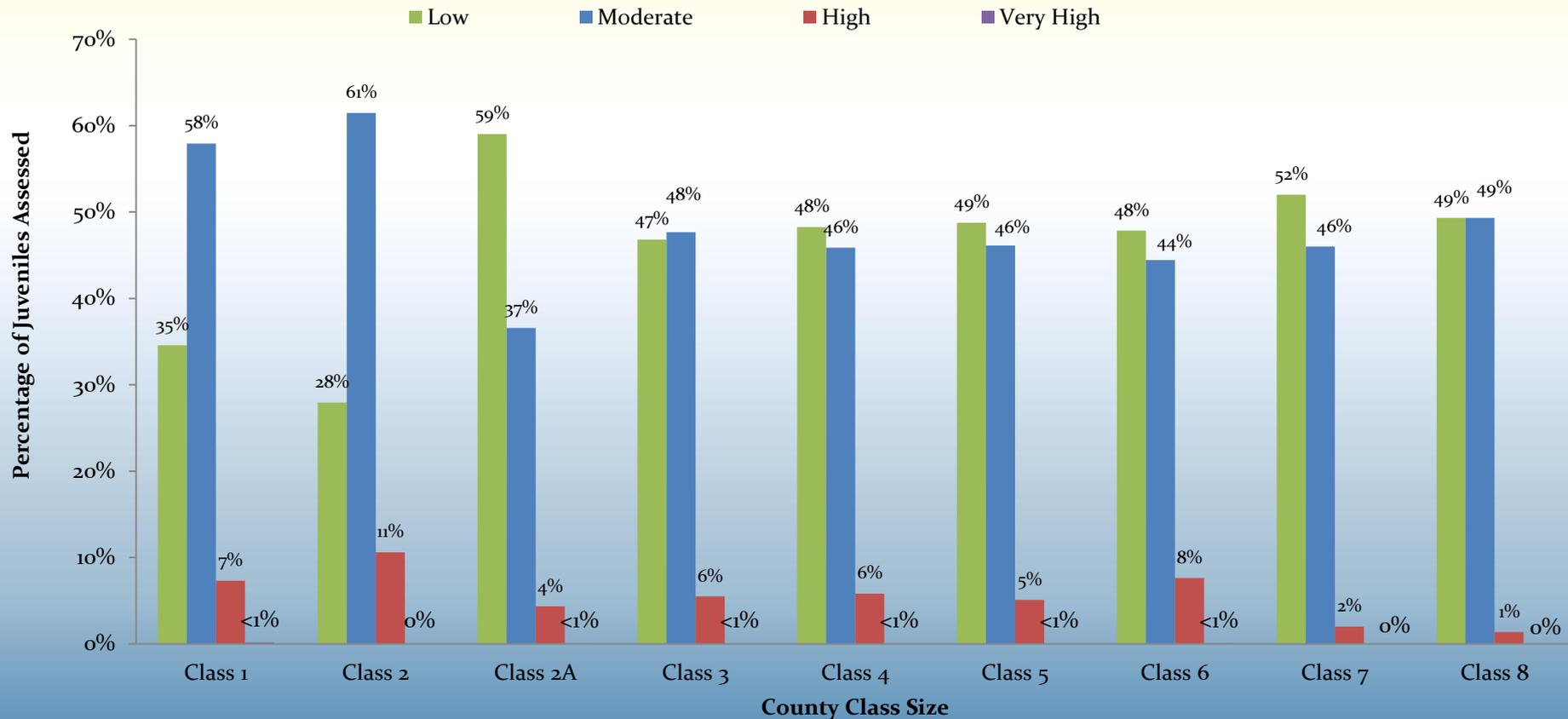
County Class Size Categories

- In the following section, the relationship between the county class size of the juvenile's residence and his or her YLS scoring is examined. The following is a breakdown of class size by county.

Class 1	Philadelphia	Class 5	Adams	Class 6 (Continued)	Susquehanna
Class 2	Allegheny		Blair		Tioga
Class 2A	Bucks		Lawrence		Venango
	Delaware		Lebanon		Warren
	Montgomery		Lycoming		Wayne
Class 3	Berks		Mercer	Class 7	Juniata
	Chester		Northumberland		Snyder
	Cumberland	Class 6	Armstrong		Union
	Dauphin		Bedford		Wyoming
	Erie		Bradford	Class 8	Cameron
	Lackawanna		Carbon		Forest
	Lancaster		Clarion		Fulton
	Lehigh		Clearfield		Montour
	Luzerne		Clinton		Potter
	Northampton		Columbia		Sullivan
	Westmoreland		Crawford		
	York		Elk		
Class 4	Beaver		Greene		
	Butler		Huntingdon		
	Cambria		Indiana		
	Centre		Jefferson		
	Fayette		McKean		
	Franklin		Mifflin		
	Monroe		Perry		
	Schuylkill		Pike		
	Washington		Somerset		

Overall Risk Levels by County Class Size

- Juveniles who lived in Class 1 (Philadelphia County) and Class 2 (Allegheny County) had higher overall risk scores than juveniles who lived in the remaining classes.
- Juveniles who lived in Class 2A counties had the lowest overall risk scores compared to juveniles who lived in the remaining classes.

Overall Risk Levels by County Class Size:
Initial Assessments Conducted for Juveniles with Cases Opened in 2010-2014

Legend: ■ Low ■ Moderate ■ High ■ Very High

Y-axis: Percentage of Juveniles Assessed (0% to 70%)
X-axis: County Class Size

County Class Size	Low	Moderate	High	Very High
Class 1	35%	58%	7%	<1%
Class 2	28%	61%	11%	0%
Class 2A	59%	37%	4%	<1%
Class 3	47%	48%	6%	<1%
Class 4	48%	46%	6%	<1%
Class 5	49%	46%	5%	<1%
Class 6	48%	44%	8%	<1%
Class 7	52%	46%	2%	0%
Class 8	49%	49%	1%	0%

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Domain Scores by County Class Size:
Percentage of Juveniles Who Scored Low, Moderate, and High

	Prior and Current Offenses			Family Circumstances/ Parenting			Education/ Employment			Peer Relations			Substance Abuse			Leisure/ Recreation			Personality/ Behavior			Attitudes/ Orientation		
	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High	Low	Moderate	High
Class 1 (n=3,333)	35%	58%	7%	73%	20%	7%	20%	63%	17%	34%	47%	18%	39%	40%	21%	20%	26%	54%	27%	68%	5%	51%	45%	4%
Class 2 (n=4,065)	28%	61%	11%	64%	27%	9%	14%	58%	28%	32%	55%	13%	37%	37%	26%	29%	32%	39%	17%	64%	19%	34%	61%	4%
Class 2A (n=7,154)	59%	37%	4%	79%	16%	4%	38%	48%	13%	51%	41%	9%	45%	38%	17%	40%	23%	37%	49%	45%	6%	67%	30%	2%
Class 3 (n=16,954)	47%	48%	6%	75%	20%	5%	24%	58%	18%	44%	41%	16%	44%	32%	24%	34%	23%	43%	34%	57%	9%	62%	36%	2%
Class 4 (n=4,398)	48%	46%	6%	76%	18%	6%	26%	56%	18%	49%	39%	12%	48%	32%	19%	36%	26%	38%	31%	58%	11%	56%	41%	2%
Class 5 (n=3,327)	49%	46%	5%	73%	21%	6%	30%	55%	15%	47%	38%	15%	53%	29%	18%	33%	22%	44%	37%	56%	7%	61%	37%	2%
Class 6 (n=2,136)	48%	44%	8%	71%	19%	10%	27%	54%	18%	44%	39%	17%	51%	27%	21%	34%	25%	41%	34%	56%	10%	58%	39%	3%
Class 7 (n=200)	52%	46%	2%	79%	18%	4%	26%	64%	10%	62%	31%	8%	56%	24%	21%	39%	28%	34%	37%	56%	8%	66%	34%	1%
Class 8 (n=73)	49%	49%	1%	79%	19%	1%	34%	45%	21%	40%	42%	18%	56%	18%	26%	38%	26%	36%	30%	59%	11%	56%	41%	3%

*Categories may not sum to 100% due to rounding.

Correlation Matrix - County Class Size Added

		1	2	3	4	5	6	7	8	9
1	Year	1								
2	Age at Assessment	-.005	1							
3	Age First Referral	**-.040**[***]	**.639**[***]	1						
4	Gender	.006	**.020**[***]	**-.044**[***]	1					
5	Race/Ethnicity	**.121**[***]	**-.079**[***]	**-.220**[***]	**-.029**[***]	1				
6	Living Arrangement	**.079**[***]	**-.027**[***]	**-.131**[***]	**-.048**[***]	**.252**[***]	1			
7	Family Status	**.111**[***]	**-.060**[***]	**-.178**[***]	**-.049**[***]	**.328**[***]	**.777**[***]	1		
8	County Class Size	**-.113**[***]	**-.083**[***]	**.038**[***]	-.007	**-.342**[***]	**-.081**[***]	**-.129**[***]	1	
9	Total Risk	**.033**[***]	**.051**[***]	**-.139**[***]	**.024**[***]	**.103**[***]	**.161**[***]	**.175**[***]	**-.038**[***]	1

** $p < .05$; *** $p < .01$

Correlation Matrix - County Class Size Added

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Year	1															
2	Age at Assessment	-.005	1														
3	Age First Referral	-.040***	.639***	1													
4	Gender	.006	.020***	-.044***	1												
5	Race/Ethnicity	.121***	-.079***	-.220***	-.029***	1											
6	Living Arrangement	.079***	-.027***	-.131***	-.048***	.252***	1										
7	Family Status	.111***	-.060***	-.178***	-.049***	.328***	.777***	1									
8	County Class Size	-.113***	-.083***	.038***	-.007	-.342***	-.081***	-.129***	1								
9	Prior & Current Offenses	.154***	.165***	-.206***	.059***	.112***	.131***	.144***	-.058***	1							
10	Family Circumstances	.010**	.020***	-.091***	-.032***	.037***	.147***	.131***	.009	.316***	1						
11	Peer Relations	.030***	.112***	-.047***	.049***	.082***	.106***	.127***	-.017***	.351***	.308***	1					
12	Substance Abuse	.024***	.296***	.193***	.077***	-.089***	.016***	.001	-.035***	.247***	.210***	.379***	1				
13	Leisure & Recreation	.023***	.030***	-.070***	-.039***	.076***	.139***	.166***	-.028***	.268***	.276***	.357***	.235***	1			
14	Personality & Behavior	.023***	-.141***	-.180***	-.023***	.083***	.097***	.119***	-.004	.267***	.358***	.249***	.115***	.253***	1		
15	Attitudes & Orientation	.022***	.031***	-.115***	.036***	.116***	.111***	.127***	-.040***	.369***	.396***	.357***	.255***	.327***	.448***	1	
16	Education & Employment	.035***	-.138***	-.172***	.019***	.149***	.120***	.155***	-.020***	.244***	.283***	.283***	.149***	.312***	.435***	.388***	1

** $p < .05$; *** $p < .01$

Domain Scores by County Class Size:
Major Findings

- Juveniles who lived in County Class 1 (Philadelphia County) and County Class 2 (Allegheny County) scored higher, on average, than the remaining county classes on every single YLS domain.

- The following is a breakdown of the two YLS domains that each county class scored the highest:
  - Class 1: Education and Employment; Leisure and Recreation
  - Class 2: Education and Employment; Personality and Behavior
  - Class 2A: Education and Employment; Leisure and Recreation
  - Class 3: Education and Employment; Leisure and Recreation
  - Class 4: Education and Employment; Personality and Behavior
  - Class 5: Education and Employment; Leisure and Recreation
  - Class 6: Education and Employment; Leisure and Recreation
  - Class 7: Education and Employment; Personality and Behavior
  - Class 8: Education and Employment; Personality and Behavior