Data Analytics for
Everyone

PCYA October 2020

Practice Driven by Data Analytics

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CORPORATION
THE POWER OF INFORMATION

October 2020

Data Analytics by Info-Matrix

We believe that all organizations, regardless of size, deserve an insight into their data to improve business outcomes.

Data Analytics

Distributer

"You can't manage what you can't measure."

Referral Analytics – Practice Importance

- Caseload Balancing
- Staff Scheduling
- Identify Training Needs
- Identify IL youth and needs
- Injury and Location Analysis
- Increased Investigatory Questioning
- Identify High Incident Areas
- Validating Report Trends
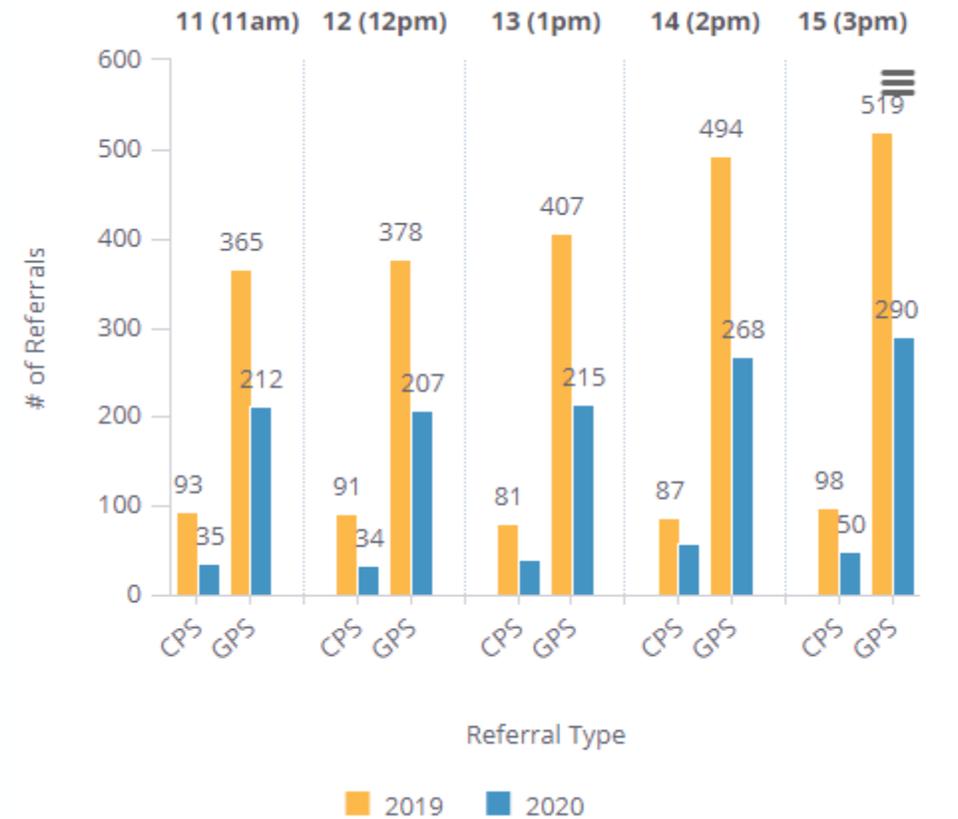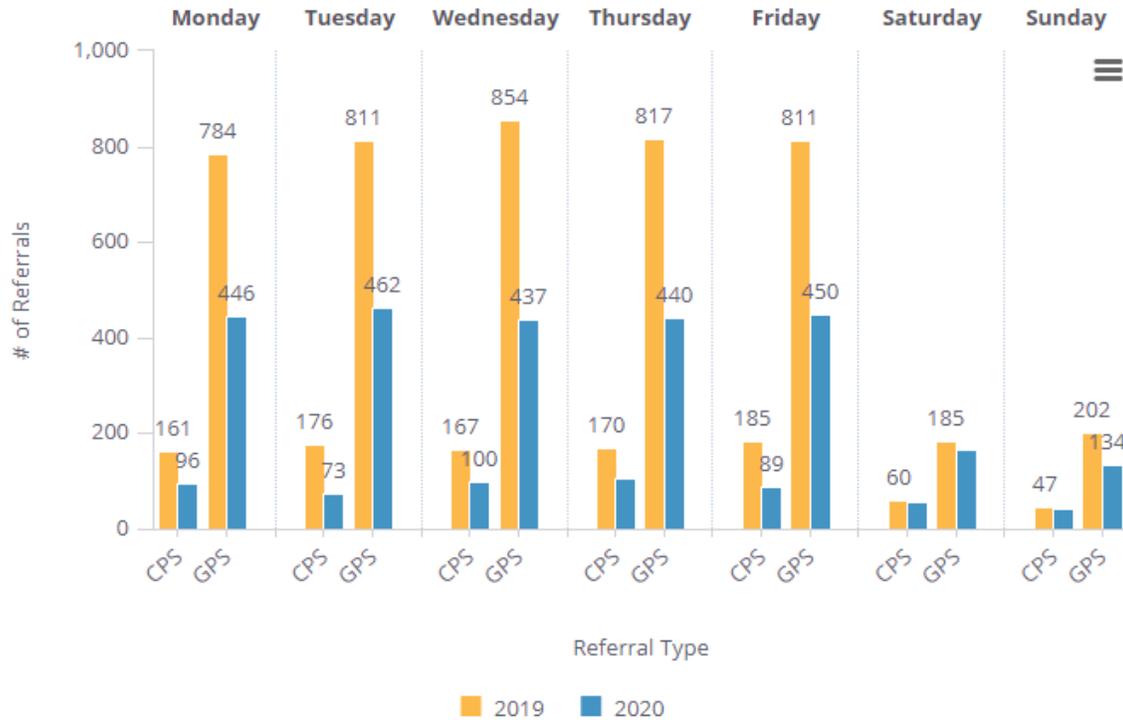- Determine Resource Needs

Caseload Balancing

- Balance the caseload by investigation distribution
- Identify trends in assignment.

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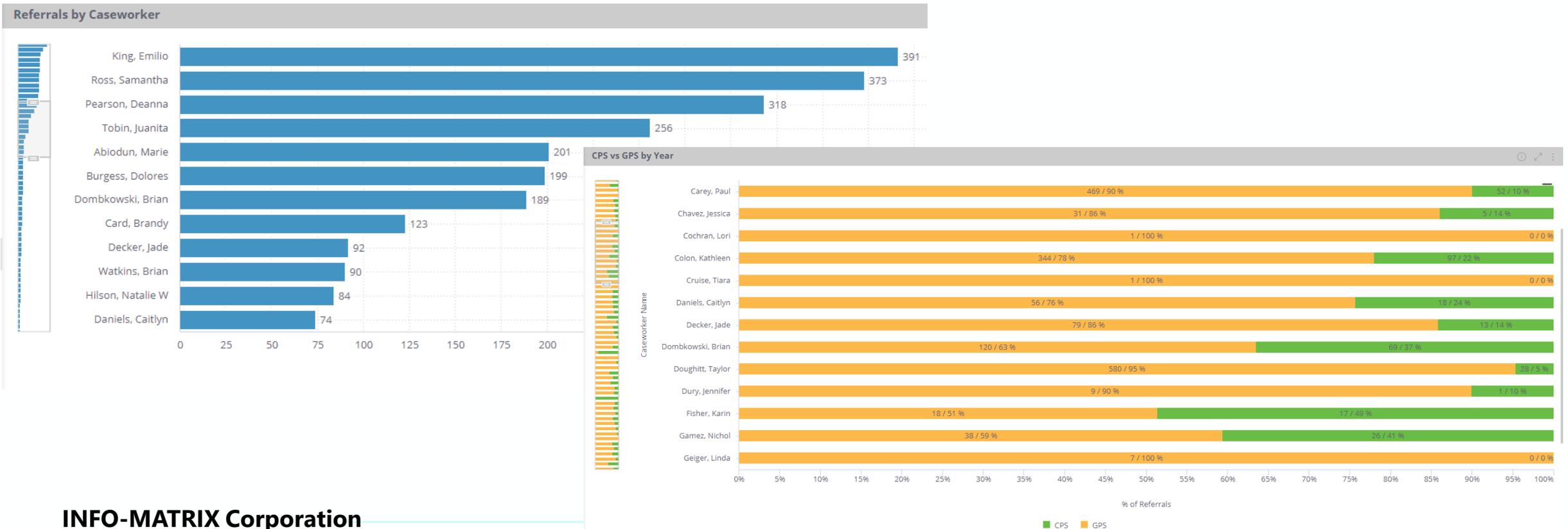
Staff Scheduling

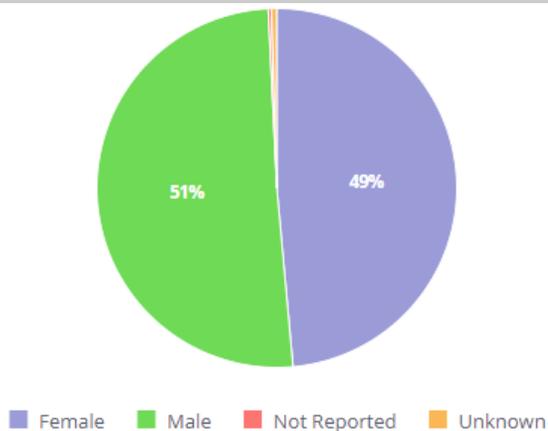- Schedule staff for the days and time it is needed most

Identify Training Needs
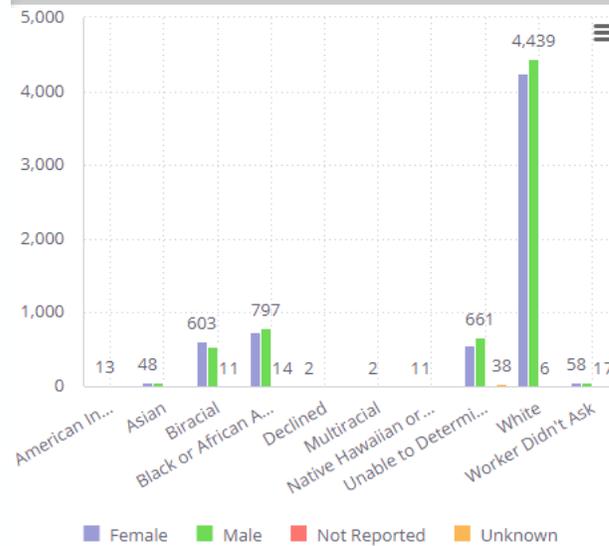
- Training needs to work better with one sector of children versus another.

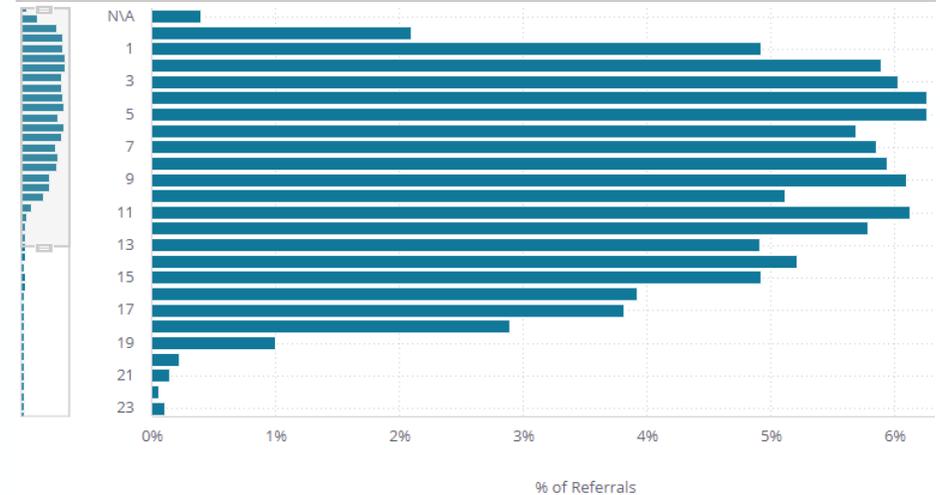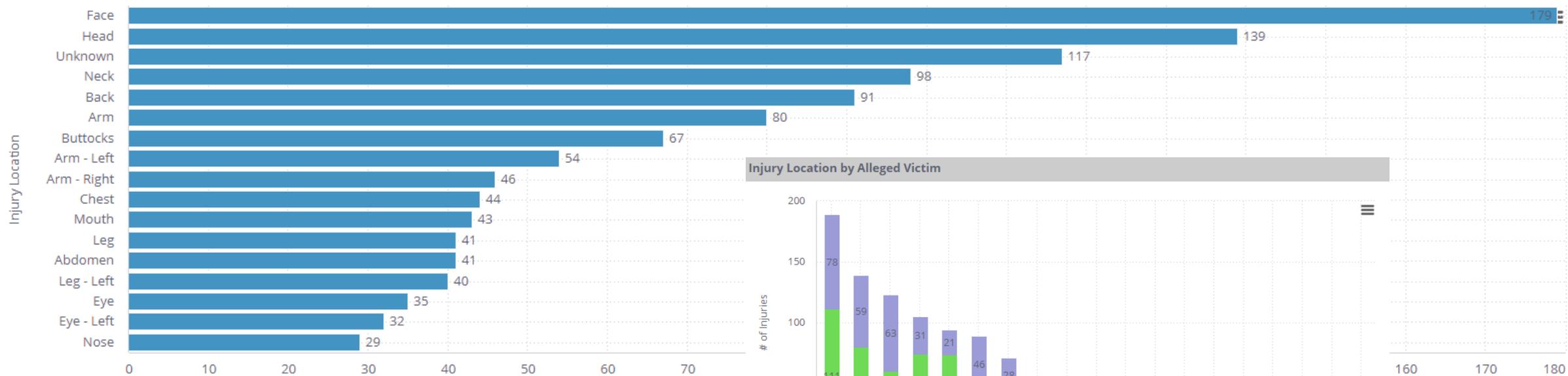- Assist in identifying IL youth and IL needs.
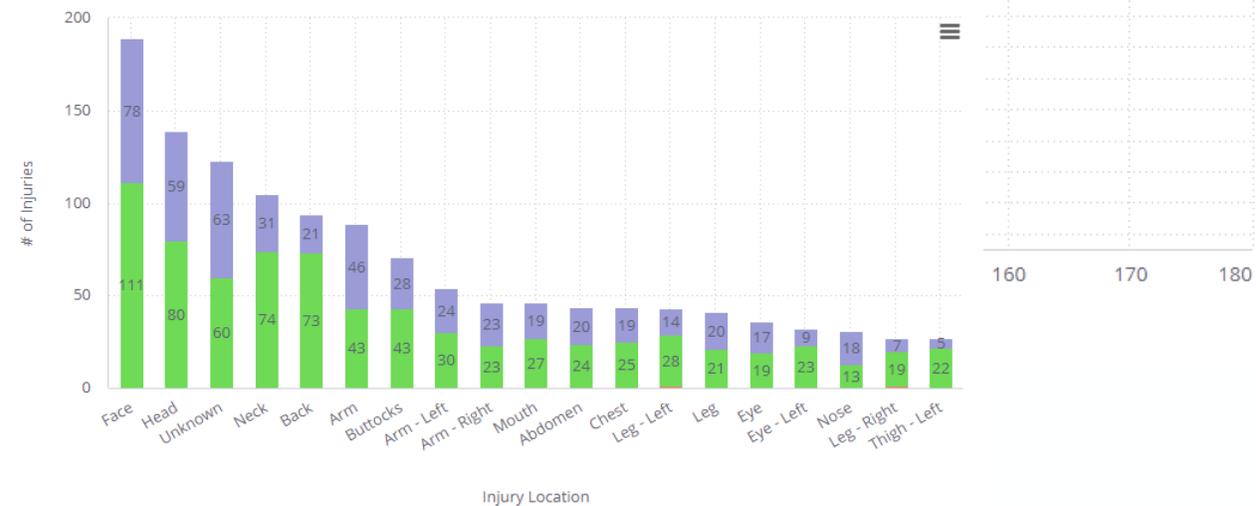
Injury and Location Analysis

- Identifying injuries and injury locations to better collaborate with providers, e.g. Mental Health, Healthcare.

Injury Locations from Referral Allegations

Injury Location	Count
Face	179
Head	139
Unknown	117
Neck	98
Back	91
Arm	80
Buttocks	67
Arm - Left	54
Arm - Right	46
Chest	44
Mouth	43
Leg	41
Abdomen	41
Leg - Left	40
Eye	35
Eye - Left	32
Nose	29

Injury Location by Alleged Victim

| Injury Location	Male	Female
Face	111	78
Head	80	59
Unknown	60	63
Neck	74	31
Back	73	21
Arm	43	46
Buttocks	43	28
Arm - Left	30	24
Arm - Right	23	23
Mouth	27	19
Abdomen	24	20
Chest	25	19
Leg - Left	28	14
Leg	21	20
Eye	19	17
Eye - Left	23	9
Nose	13	18
Leg - Right	19	7
Thigh - Left	22	5

Legend: ■ Female ■ Male ■ Not Reported

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Increased Investigatory Questioning

- Increased investigatory questioning training to fill in the 'unknown' and 'not applicable data.'

Age of Alleged Victim at the Time of Report
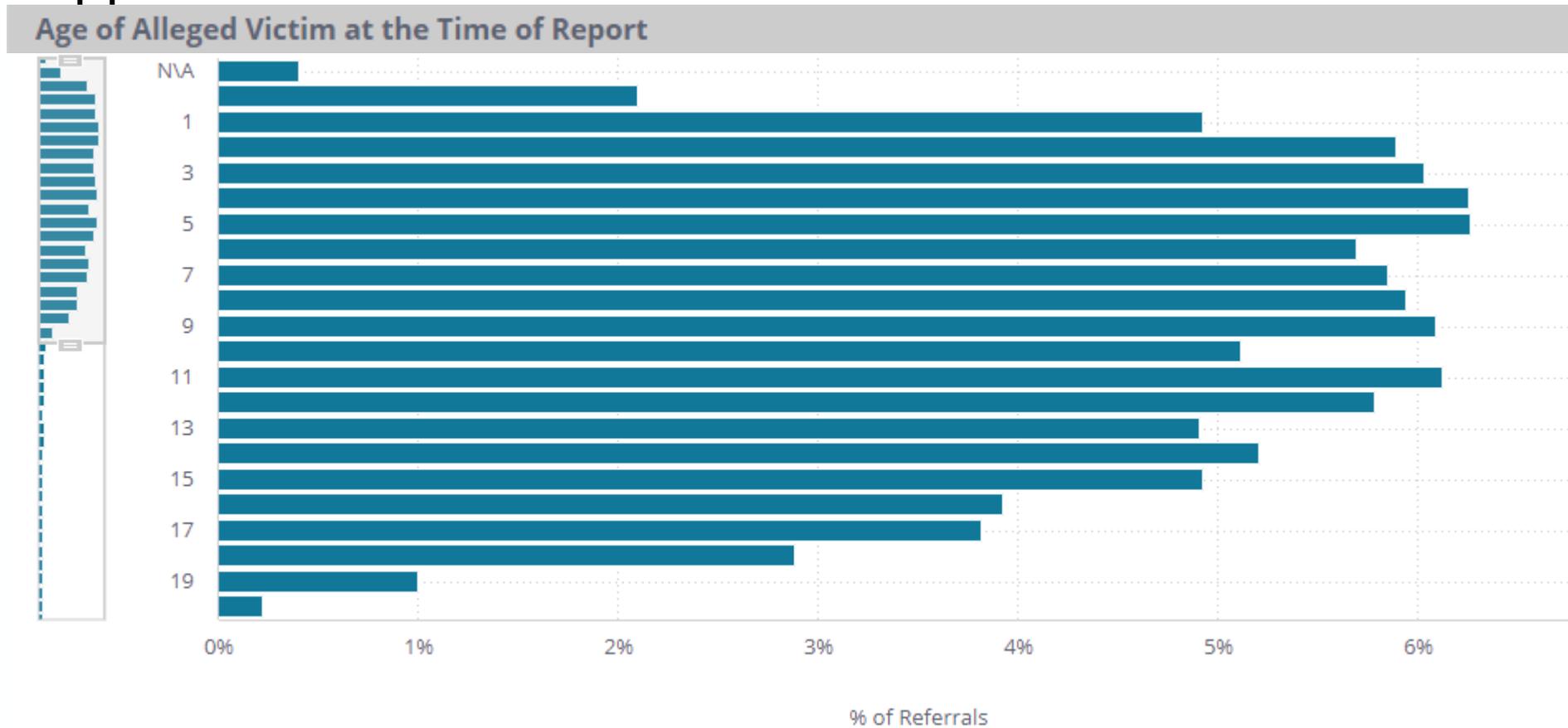
Identify High Incident Areas

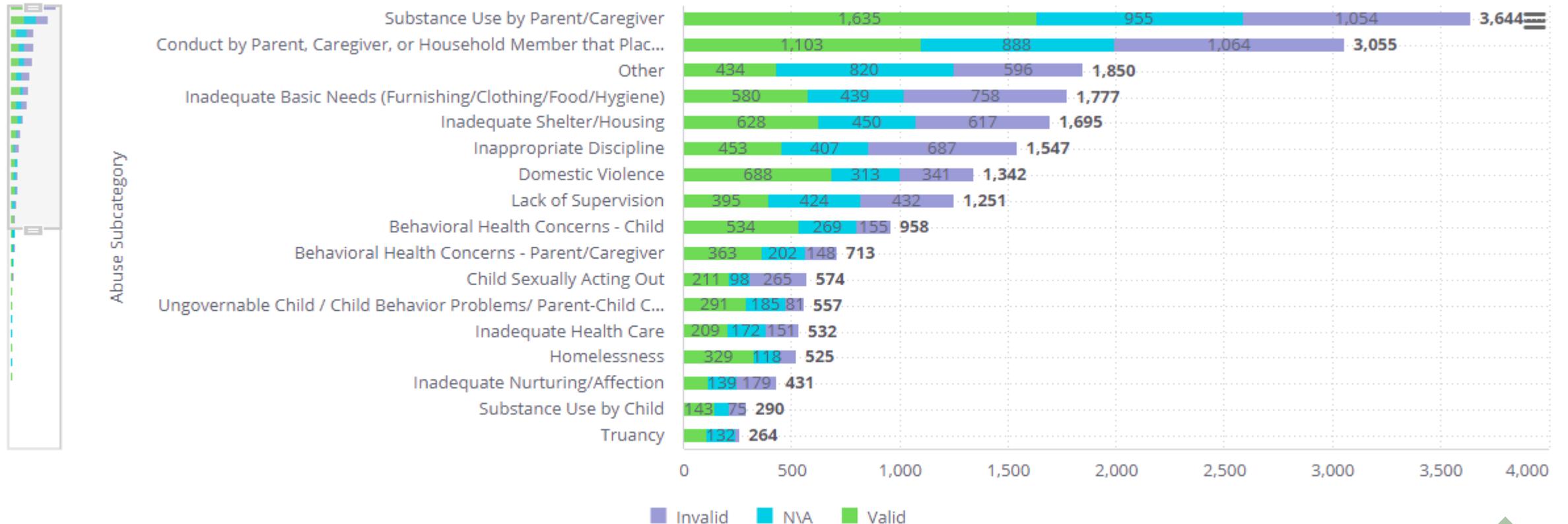- Relocate workers to regions of high incident volume.
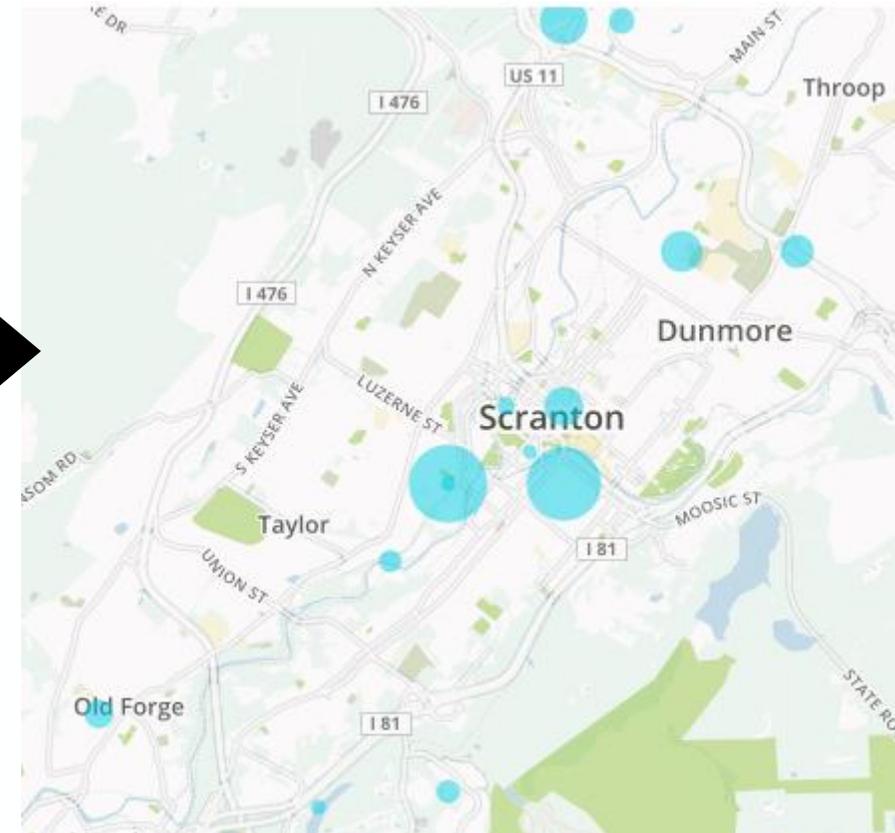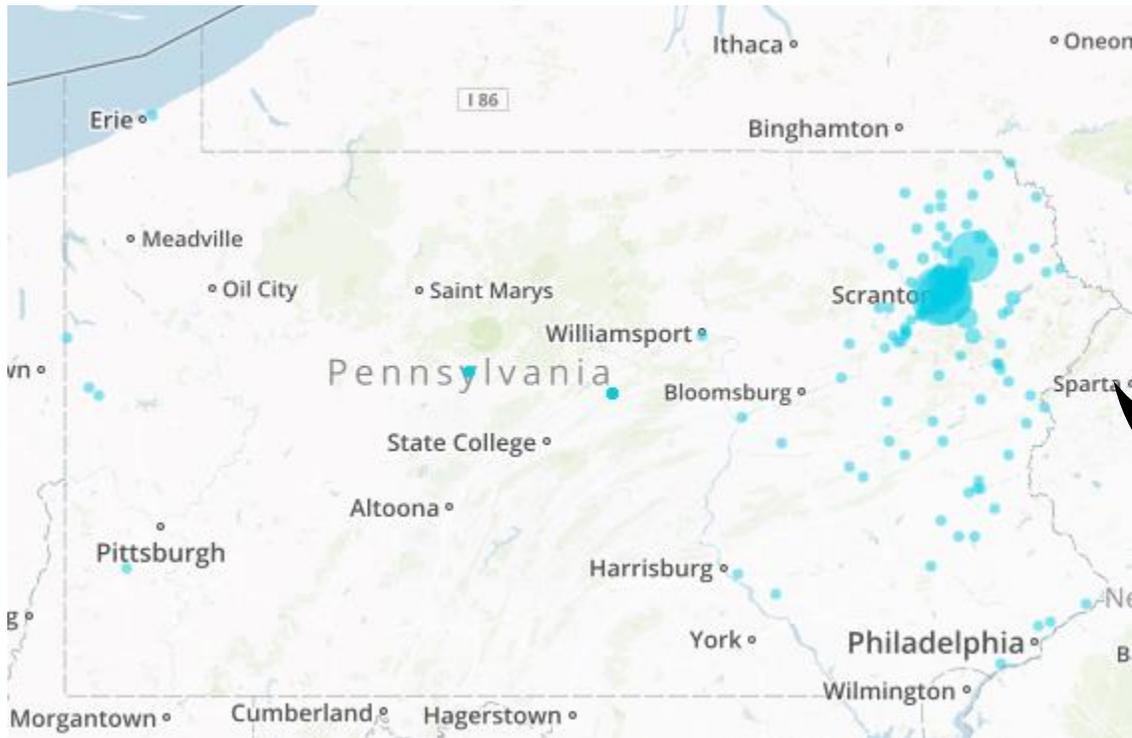
Validating Report Trends

- Determine trends in the county validating or invalidating reports and at what rate.
- Determine if resources for a specific subcategory, e.g. caregiver substance use, are needed.

GPS Subcategory of Abuse by Outcome Count

Abuse Subcategory	Valid	N\A	Invalid	Total
Substance Use by Parent/Caregiver	1,635	955	1,054	3,644
Conduct by Parent, Caregiver, or Household Member that Plac...	1,103	888	1,064	3,055
Other	434	820	596	1,850
Inadequate Basic Needs (Furnishing/Clothing/Food/Hygiene)	580	439	758	1,777
Inadequate Shelter/Housing	628	450	617	1,695
Inappropriate Discipline	453	407	687	1,547
Domestic Violence	688	313	341	1,342
Lack of Supervision	395	424	432	1,251
Behavioral Health Concerns - Child	534	269	155	958
Behavioral Health Concerns - Parent/Caregiver	363	202	148	713
Child Sexually Acting Out	211	98	265	574
Ungovernable Child / Child Behavior Problems/ Parent-Child C...	291	185	81	557
Inadequate Health Care	209	172	151	532
Homelessness	329	118		525
Inadequate Nurturing/Affection	139	179		431
Substance Use by Child	143	75		290
Truancy	132			264

Legend: ■ Invalid ■ N\A ■ Valid

Determine Resource Needs

- Determine if resources for a specific subcategory, e.g. caregiver substance use, are needed.
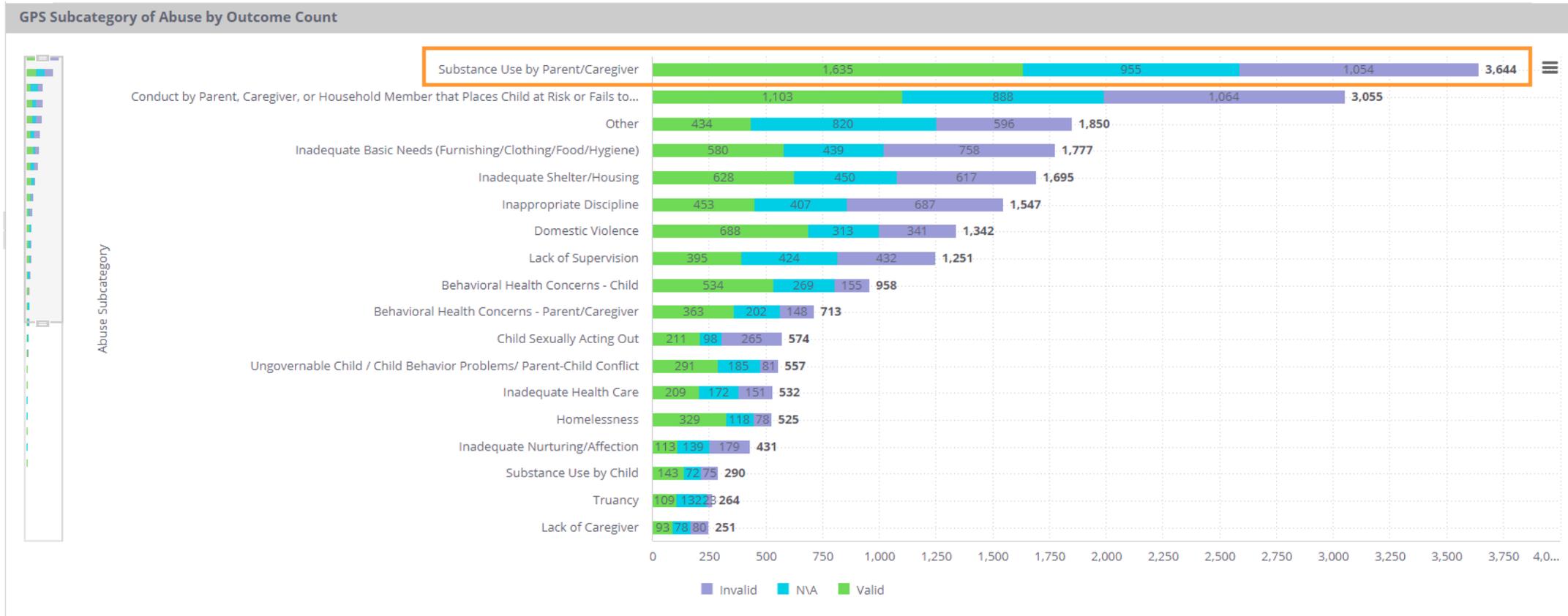
Contact Analytics - Practice Importance

- Trends in Family Contacts

- Regulatory Timeframe Requirements

- Visualize the types and purposes of contacts

- Identify patterns for data entry and completion

- Correlation between Family contacts and FSP Objectives

Contact Snapshot

- Snapshot view of the contacts broken by type

Total Contacts: 296

Face to Face: 66

Non Face to Face: 230

At Child's Residence: 40

Not at Child's Residence: 256

Participant Contact: 104

Non Participant Contact: 192
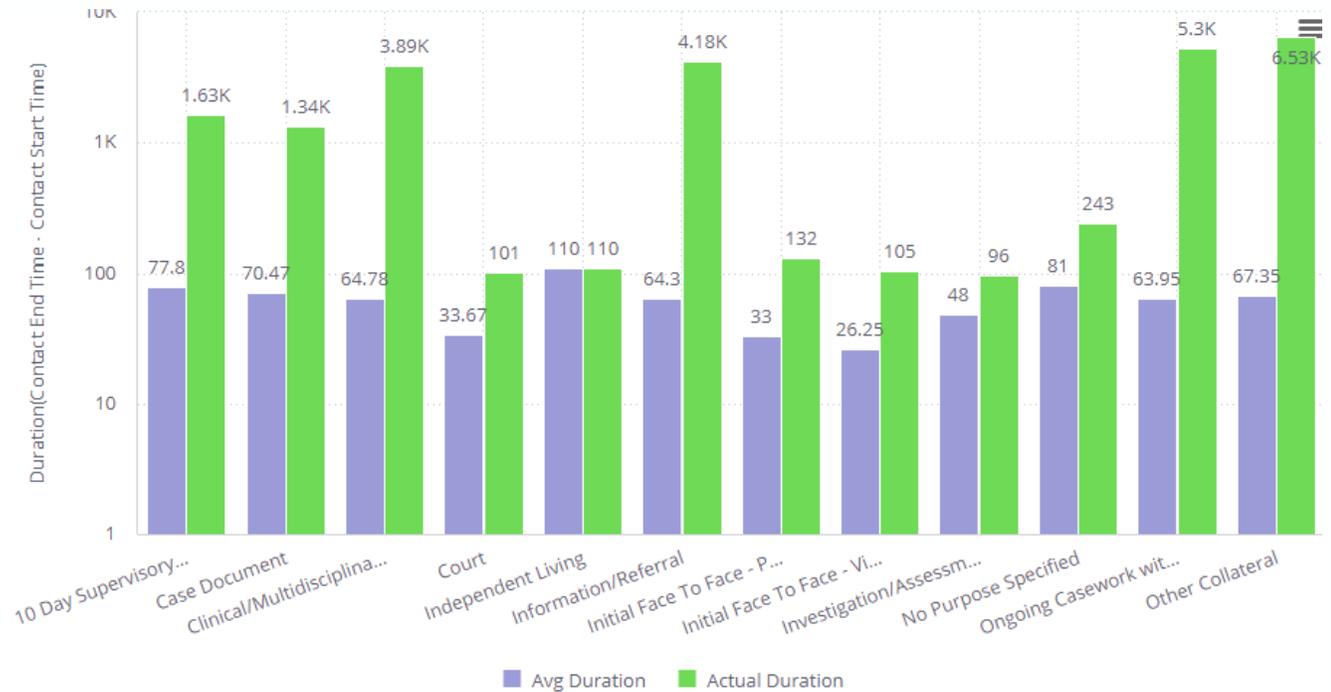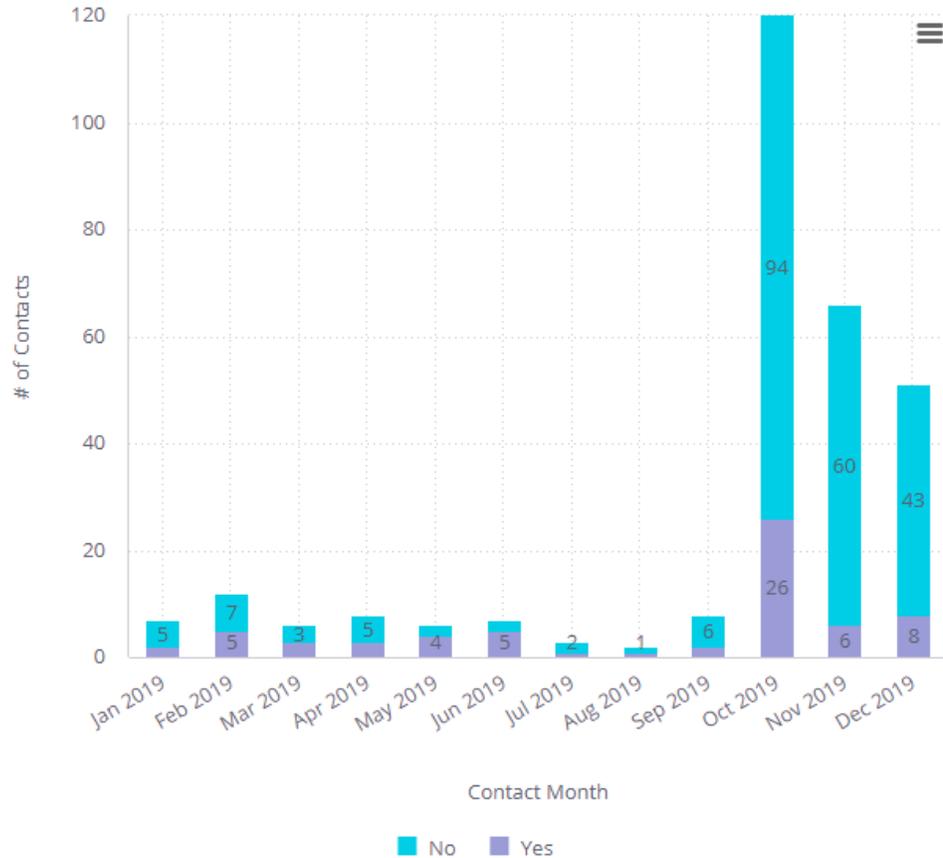
Courtesy Contact: 2

Non Courtesy Contact: 294

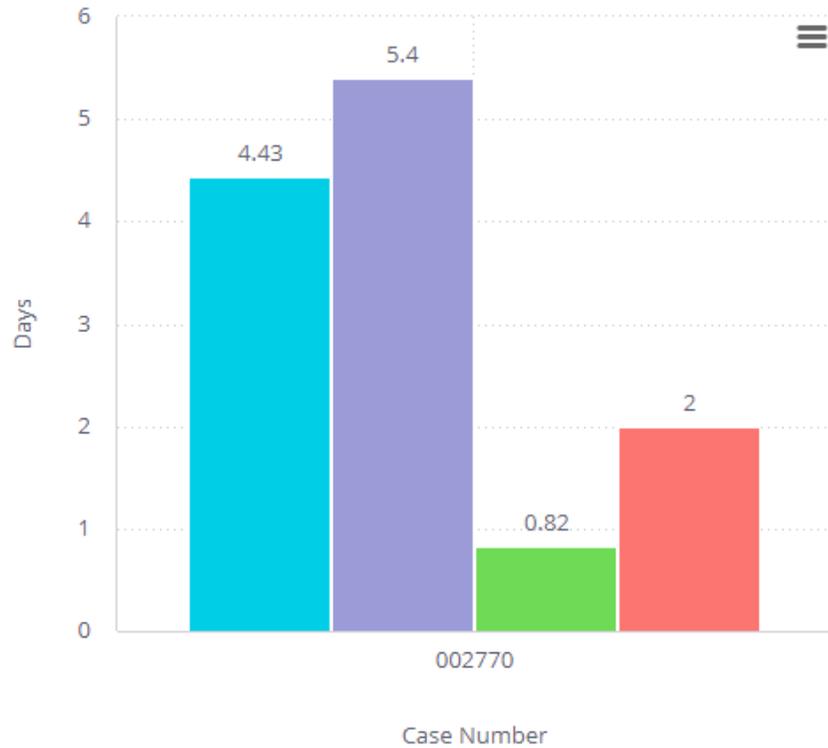# Trends in Family Contacts

- Discover trends in the face-to-face and non-face-to-face contact being made with or on behalf of families.
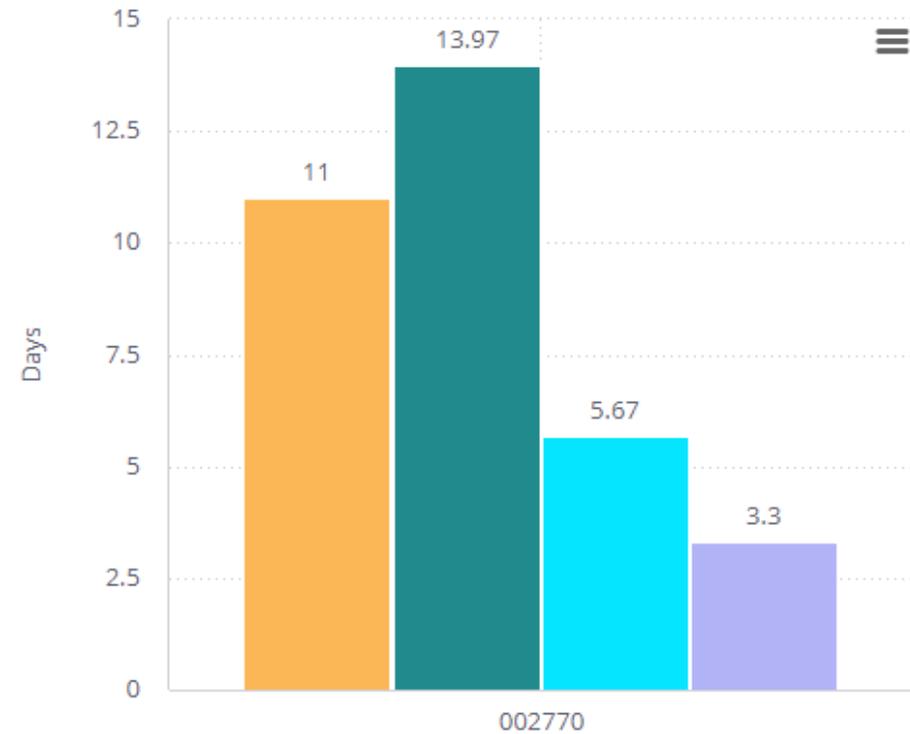
Regulatory Timeframe Requirements

- Identify whether the county is meeting regulatory timeframes for family contact.

Types and Purposes of Contacts

- Visualize the types and purposes of contacts being made with families over time.

Contact Type by Date
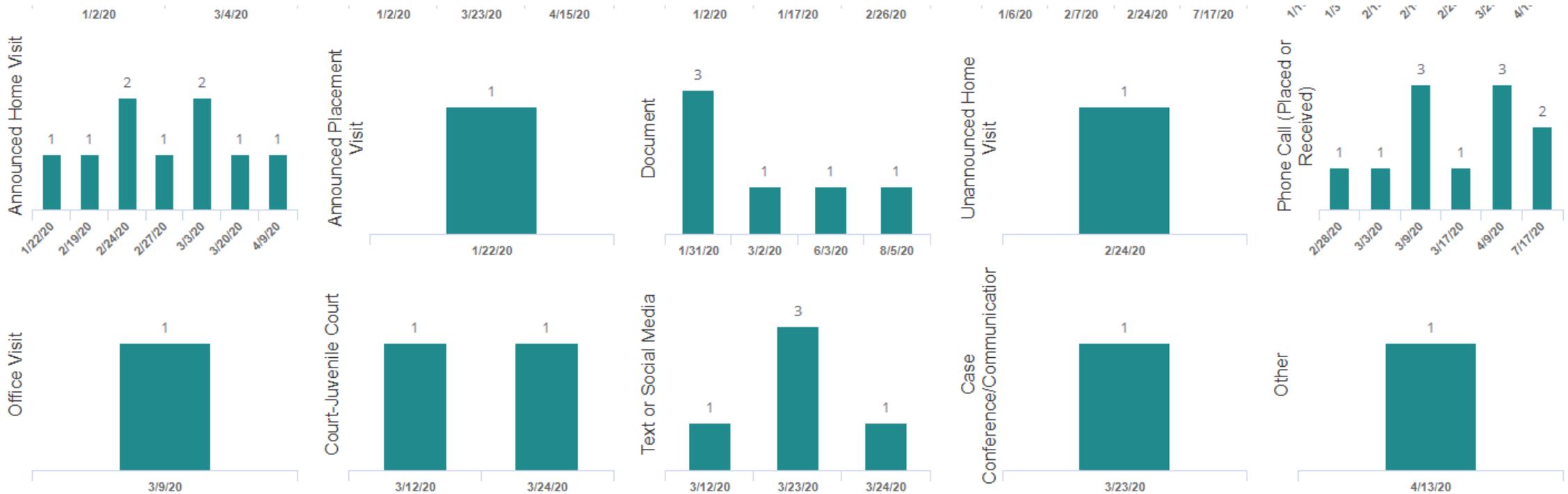
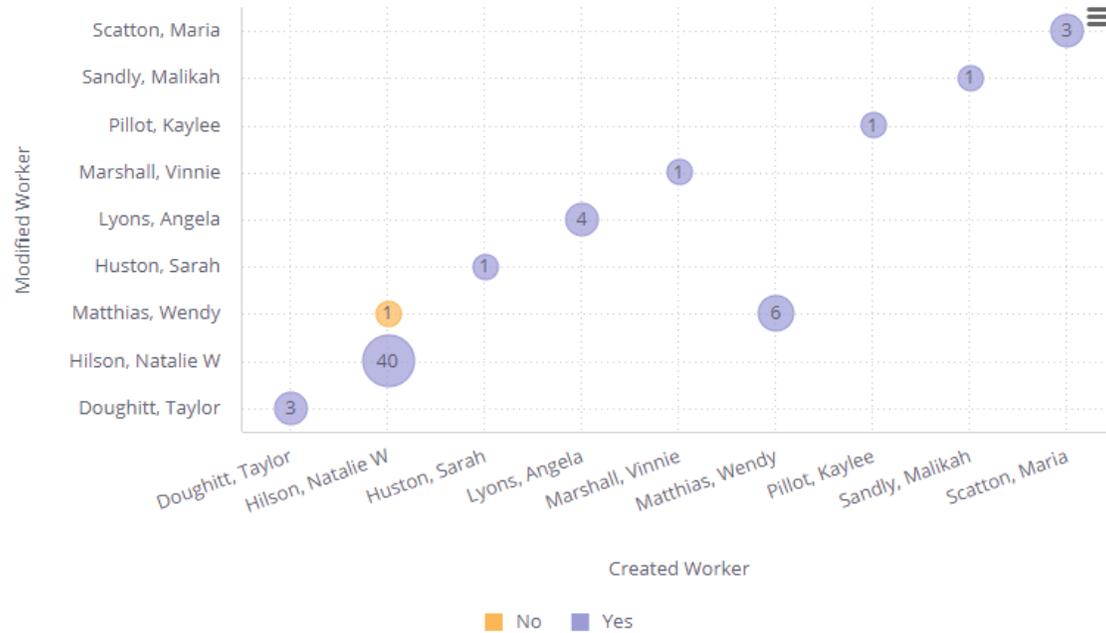# Patterns for data entry and completion

- Learn patterns for worker data entry and completion to assist in staffing needs.

Created and Modifed Workers

Contacts By Units and Workers

Correlate Contacts and FSP Objectives

- Analyze the importance of family contacts and their impact on FSP Objectives' progress.

Responsible Party	Objective	FSPID	PlannedDate	GoalType	ProgressLevel	Prior Contacts	Post Contacts
Faulkner, Ky'Mir I - CASE FATHER (Inactive); Faulkner, Rho...	FspObjectiveNarrative_txt	1554	2/10/19	Current	Initial/New Objective	488	1,586
		1772	8/7/19	Current	Moderate Progress	183	1,586
		2024	2/4/20	Current	Minimal Progress	427	183
Faulkner, Rhonda - CASE MOTHER (Inactive); Miller, Joann...	FspObjectiveNarrative_txt	1554	2/10/19	Current	Initial/New Objective	488	1,159
		1772	8/7/19	Current	Minimal Progress	1,525	1,586
Faulkner, Rhonda - CASE MOTHER (Inactive); Monelli, Mic...	FspObjectiveNarrative_txt	2024	2/4/20	Current	Minimal Progress	427	61
	RESPONSIBLE PARTY and IMPACTED CHILDREN will de...	1020	2/14/18	Current	No Progress	122	2,440
		1261	8/14/18	Current	No Progress	488	610
	RESPONSIBLE PARTY will continue to demonstrate po...	1020	2/14/18	Current	Moderate Progress	61	915
		1261	8/14/18	Current	Moderate Progress	0	427
	RESPONSIBLE PARTY will continue to maintain positive...	1020	2/14/18	Current	No Progress	61	1,220
		1261	8/14/18	Current	No Progress	244	305
	RESPONSIBLE PARTY will continue to maintain safe an...	1020	2/14/18	Current	Moderate Progress	61	915
		1261	8/14/18	Current	Moderate Progress	0	427
	RESPONSIBLE PARTY will ensure supervision of IMPAC...	1020	2/14/18	Current	Moderate Progress	61	915
		1261	8/14/18	Current	Moderate Progress	0	427
	RESPONSIBLE PARTY will improve his/her relationship ...	1020	2/14/18	Current	No Progress	61	1,220
		1261	8/14/18	Current	No Progress	244	305
	RESPONSIBLE PARTY will increase effective communic...	1020	2/14/18	Current	No Progress	122	2,440

Our Program

Quick Start Program
> Assess Business Problem
> Define Data Analytics Solution

Accelerated Timeframe
> 1 Month to deploy solution

Managed Service Offering
> Zero resource needs (Hardware, Software or Skilled IT)
> We support Dashboards and underlying Data

Simplicity
> Ease of adoption by business users
> Intuitive Interface

Child Welfare Specific
> Program Improvement
> Pennsylvania Regulations

Mobile Ready
> Portability
> Field access

Secure
> Highest levels of security
> Granularity defined at Department and User level

Subscription Fee Based
> Monthly fee based on
>> # of dashboards & users
>> Volume of data
> No upfront investment

Quick Start Timeline

| 1 | 2 | 3 | 4 |

Week One

Data Gathering

- Define Question
- Identify Data
- Collect Data

Week Two

Analysis

- Understand Data
- Define Relationships
- Define Metrics

Week Three

Development

- Establish Relationships
- Define Drill Downs
- Visualize Data

Week Four

Review and Delivery

- Review
- Refine
- Go-Live

THANK YOU

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