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Quality Assurance in Action:

What do we mean and how do we implement?



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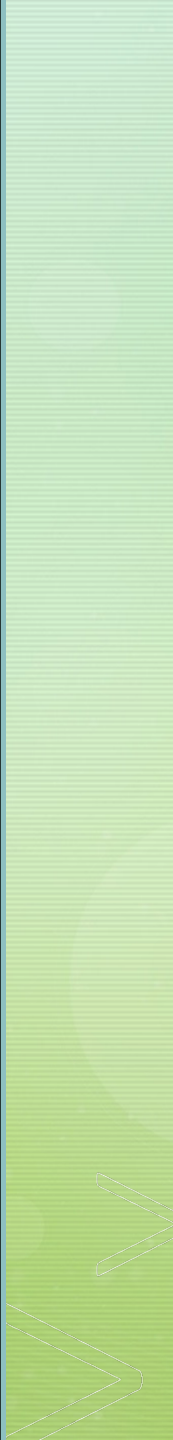


JJ Reform Context

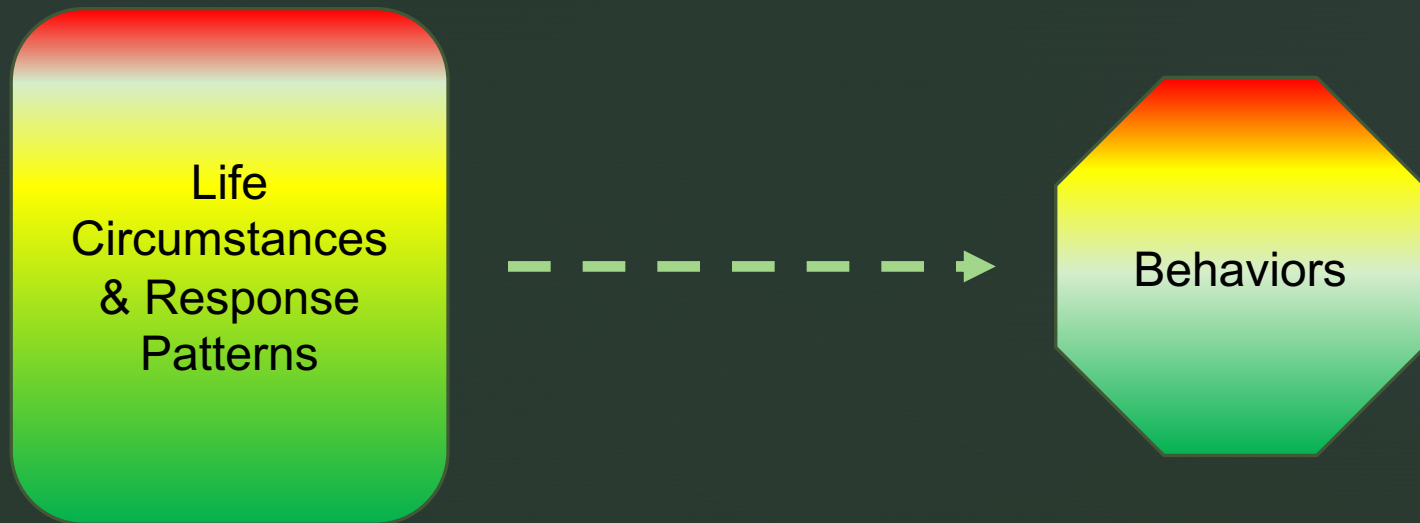
- Change Child Care Fund reimbursement to 75%
- Use a validated risk-need screen & assessment, mental health screen, detention screen
 - Probation standards
- Employ a local quality assurance specialist to support the county with implementing research-based practices, excluding counties or tribes receiving the basic grant
- Discussion today is based on content expert recommendations, not SCAO/DHHS requirements/recommendations



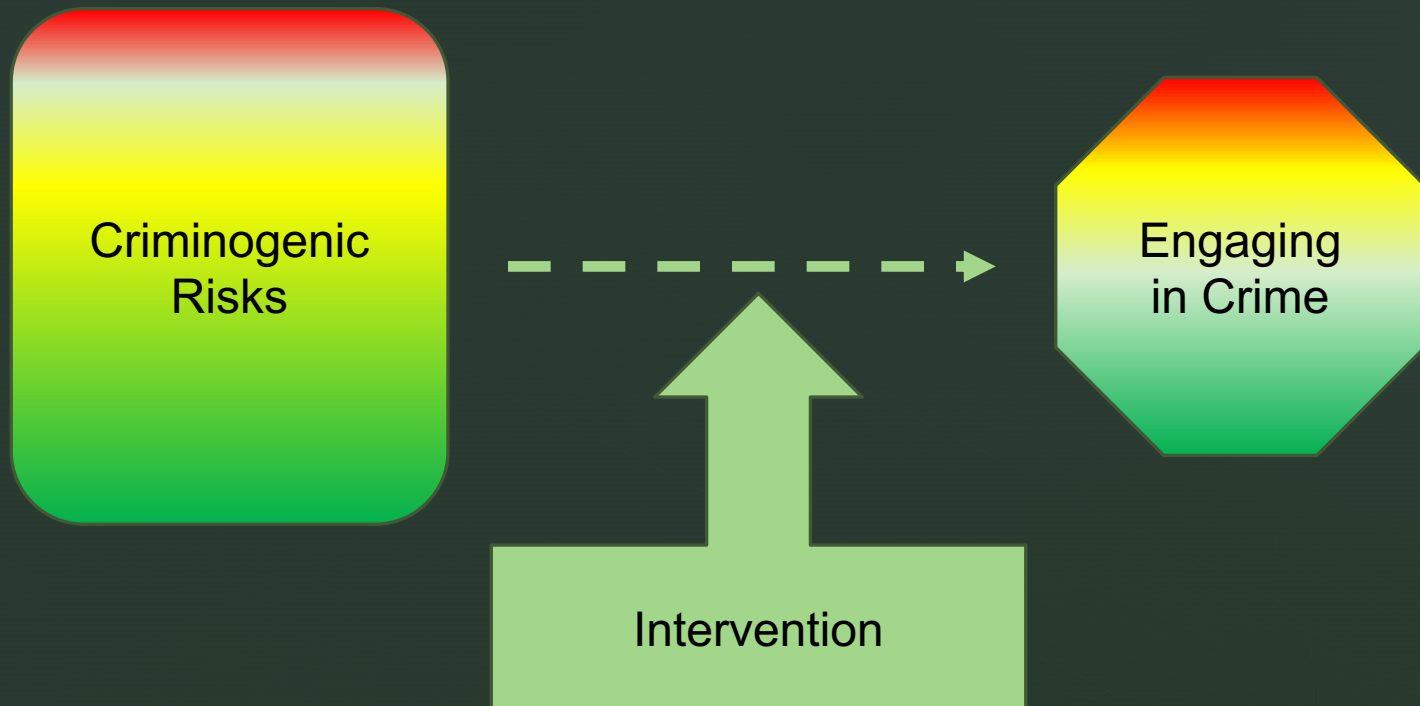
Today's Topics

- Why are we talking about quality assurance?
 - What is quality assurance?
 - How do we implement?
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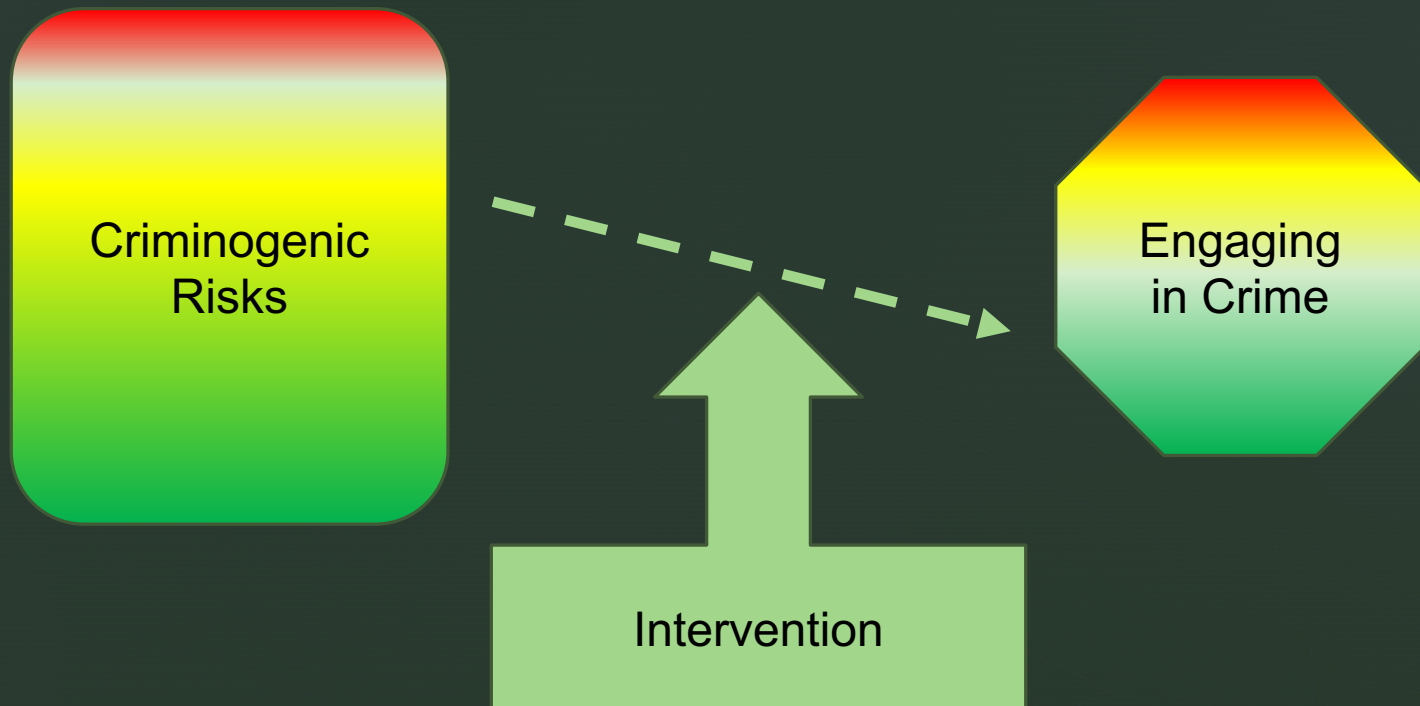
Why do we talk about quality assurance?



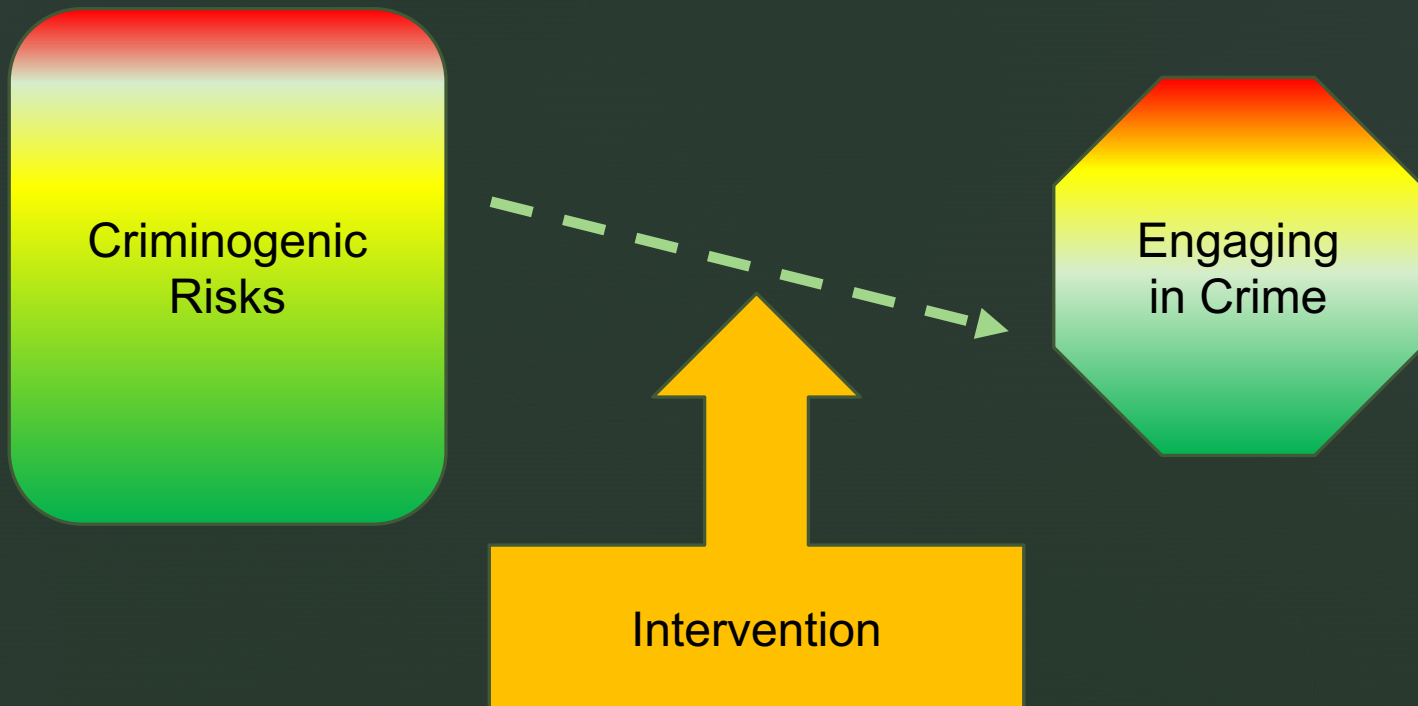
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Intervention = Program, Service, Treatment

Inconsistent recipe = inconsistent outcomes

Quality Assurance = Making sure recipe → outcomes

Except kids and courts aren't recipes or widgets in factories.

What is Quality Assurance?

- Ongoing monitoring to ensure that services meet quality standards, resulting in reliable, dependent, and consistent processes, experience, and outcomes
- If we define QA under JJ reform as “do you have complete data” we’re missing the boat.



What does that really mean?

- There is no set definition of quality assurance standards for juvenile justice
- Most aspects of “quality” are also undefined in juvenile justice
- Potential Components of JJ Quality:
 - Outcomes
 - Experience
 - Access
 - Processes
 - Data
 - Financial
 - Employer Environment
 - Values alignment

QA examples from other sectors

- In manufacturing
 - Set product (outcome) specifications/expectations
 - Assess which points in the process contribute to which specifications
 - Monitor specifications for those points in the process
 - Train staff to expectations
 - Monitor and adjust
- Six Sigma expectation – allows 3.4 “defect features” per million opportunities

QA examples from other sectors

- In Healthcare
 - Define positive and negative outcomes
 - Create data points for those outcomes (patient surveys, record reviews, lawsuits, etc.)
 - Monitor regularly and implement process changes where outcomes are unsatisfactory
- Example: <https://www.medicare.gov/care-compare/>
- Timely & Effective Care →

Percentage of patients who received appropriate care for severe sepsis and/or septic shock

↑ Higher percentages are better

63% ?
of 99 patients

National average:
60% 25,26

Michigan average:
58% 25,26

Frameworks to Consider

- PDCA: Plan, Do, Check, Adjust
- DMAIC: Define, Measure, Analyze, Improve, Control



D



DEFINE

- Problem Definition
- Project Objectives
- Scope Definition
- Stakeholder Identification

M



MEASURE

- Data Collection
- Metric Selection
- Data Analysis Tools
- Baseline Creation

A



ANALYSE

- Root Cause Analysis
- Hypothesis Testing
- Data Validation
- Data Visualization

I



IMPROVE

- Solution Generation
- Pilot Testing
- Implementation
- Monitoring and Adjusting

C



CONTROL

- Monitoring Systems
- Documentation
- Standardization
- Training and Communication

Defining is the most important part!

- Quality of Outcomes, Processes, Experience
- Outcome
 - Recidivism
 - Risk reduction
 - Successful completion of programming
- Process
 - Assessment drives programming
 - Program A is the same for everyone who receives it
 - Funds are being as efficiently as possible
- Experience
 - Information is provided the same way for everyone
 - Free from bias
 - Access is ensured

Jodi's Recommended Process

- Start tracking inputs and outputs
 - How many petitions and juveniles do we serve?
- Define high level Key Performance Indicators (KPIs) for case outcomes first –Start tracking those
- Define & track process points and “who”s subgroup/demographic data
- Define what happens within a case
 - Start tracking at a high level – what programs/services do juveniles receive?
 - What happens inside those programs?

Define: WHO - Inputs and Outputs

- Inputs = who comes into the court
 - Start with case info, add in juvenile descriptors as feasible
- Outputs = how many leave the court and in what ways?
- Can answer questions like:
 - How many petitions did we receive this month? This year?
 - How many juveniles are on our caseload currently? So far this year?
 - How many juveniles were on formal probation supervision this year vs informal processing?
 - Consent – diversion - standard probation - intensive



Define: Outcomes

- Reduction in risk and recidivism are our primary goals. (Why both?)
 - Risk – need multiple timepoints of a valid risk assessment (can't compare screen with full assessment)
 - Recidivism – define this!
 - Any new petition within two years of the current petition
 - New adjudication? Do PVs count? Time after case close?
 - Why two years? Can we start with shorter follow ups?
 - Local county vs wider data
 - Adult and juvenile systems

Inputs, Outputs, + Outcome KPIs

- Can answer questions like:
 - What's the average risk score for juveniles on our caseload right now?
 - How many low, moderate, and high risk juveniles have we had year to date?
 - What's the average risk score for juveniles on consent calendar vs probation?
 - How much does risk score change between a juvenile's initial and last assessment?

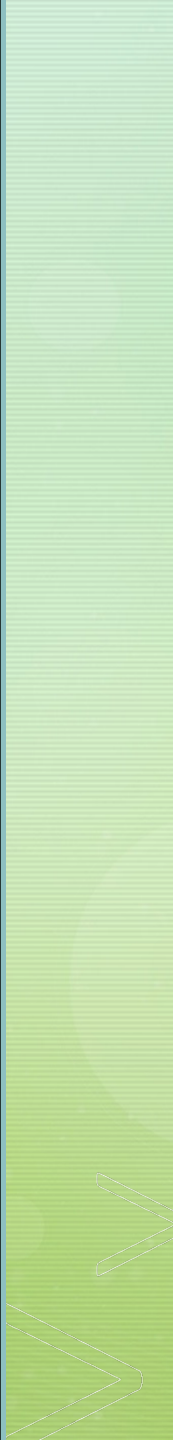


Define: Process Points & Demographic/Subgroup Data

- Process Points
 - Define important dates or process markers
 - Start and end first, then in between
 - Petition Authorized, Adjudication, Disposition, Placement/Detention Dates, Case Close
- Demographic/Subgroups
 - Define what you want to track
 - Race, Ethnicity, Gender
 - School status, special education status, zip code, gang affiliation, etc




Inputs, Outputs, Outcomes, + Process Points & Subgroups

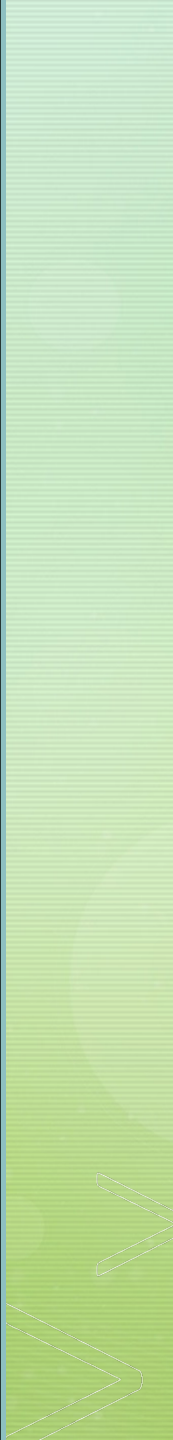
- Can answer questions like:
 - Do all genders' risk scores change the same amount while on court supervision?
 - Are juveniles of all races and ethnicities equally likely to be processed formally or informally? How does their risk score play into this?
 - Do more court-involved juveniles come from certain schools than we'd expect given that school size?
- 

Define: WHAT happens within a case?

- What all is done while under court supervision that is intended to make a difference?
- What programs/services do juveniles receive?
- Can start by just tracking program referrals
- But it gets more complicated...
 - Evidence-based programs vs new/homegrown/individualized*
 - Program referrals vs Intakes vs completion
 - Services/Practices that are more informal



QA: Evidence-Based vs Homegrown Programs

- Evidence-based programs – proven to reduce criminogenic risk
 - Must be implemented with high fidelity
 - Changing the “recipe” will change the results
 - Monitor fidelity if you intend to implement as evidence-based
 - Track if you change anything. Assess the impact of changes.
 - Home-grown
 - Need to track internally
 - What is the program intended to address?
 - How does it do that? Is it the same for all juveniles?
 - How do we know if juveniles are “done” with the program?
 - Does it impact what it intended to address?
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Defining Completion

- If you send 10 juveniles to a program, do they all get the same result at the end?
- We need to track how juveniles “do” in programs
 - Referral → Intake → Participation (varying dosage)
 - Completion –Standard (score 175) vs Benchmarks:
 - Successful completion - did everything they were supposed to do, showed growth in the intended areas, “passed” internal pre/post, etc
 - Maximum benefits – service provider tried everything they could, juvenile did the best they could, doesn’t meet successful completion criteria, but this is the best outcome we can realistically hope for.
 - Unsuccessful – court or service provider determination – program determined not to be a good fit anymore
 - Unsuccessful – juvenile/family determination – did not follow through on referral, did not attend/participate, etc

Informal Services/Practices & Supervision Models

- Informal Services/Practices
 - Ex. Applying for jobs or signing up for leisure activities
 - Community service on juvenile's own
 - Apology letter
- Supervision models
 - EPICs – a model of “how” we do supervision
 - If everyone receives it, we need to monitor delivery fidelity

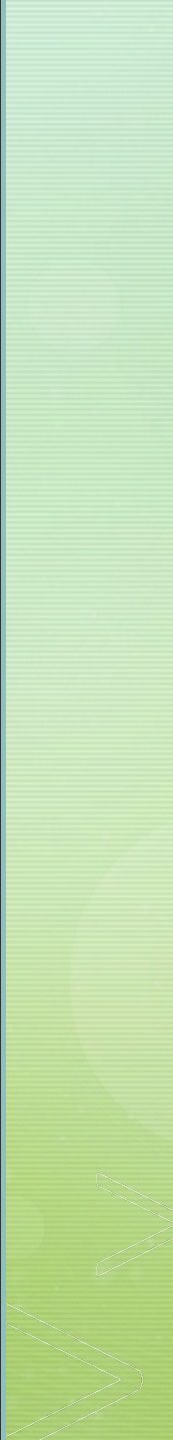


Inputs, Outputs, Outcomes, Processes, Subgroups + Programs

- Can answer questions like:
 - What risk profiles does MRT work best for?
 - At what length of group therapy do we see the biggest impact on risk reduction?
 - Do juveniles of all races receive equal risk reduction when they complete substance use intervention A?
 - Do we have the right or enough programs for the risk profile of our juveniles?



More on experience or environment?

- Are case processing times similar for all juveniles?
 - Are we providing the same number of probation officer contacts for all juveniles at the same supervision level?
 - What's the role of juvenile, family, or other stakeholder feedback in quality assurance?
 - How do we assess quality of environment?
 - Do court staff have what they need to do their jobs well?
 - Do we create a court environment that aids in or inhibits responsivity?
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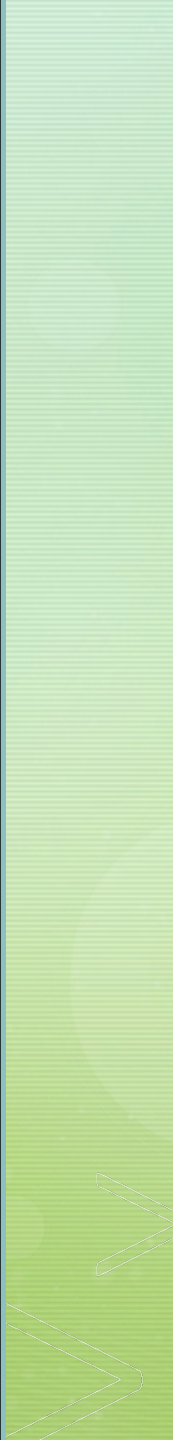
Adding in Fiscal Quality Assurance

- Do we get a similar risk reduction for programs that intend to do the same thing?
 - Is the risk reduction or difference in programming commensurate with the cost differences in programming?
 - Example (oversimplified) –

Substance Abuse Program	Average risk reduction for successful completion	Cost per participant	Cost per point of risk reduction
A – individual at provider A	1.7 points	\$150	.011 points per dollar
B – group at provider A	.95 points	\$50	.019 points per dollar
C – group at provider B	1.2	\$90	.013 points per dollar



General Data Quality

- Do we have all of the information recorded for each case?
 - Case close (or checkpoint) audits
 - Can tell us: 98% of juveniles had petition, adjudication, disposition, and case close dates available.
 - The average time from disposition to close was 174 days and the range was 20 to 742 days.
 - If we haven't thought through & monitored the other aspects of QA, what does data quality actually tell us?
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Jodi's Recommendation

- Define & Track:
 - “Who”s – inputs and outputs
 - Outcomes – risk & recidivism
 - Process points
- Set up ongoing QA process & a plan
 - Process
 - What data are we going to monitor? Start small-ish, accomplish, and then grow
 - Who is going to monitor it?
 - How often?
 - Where will biases or inequities in treatment show up?
 - Consider the staffing and organizational culture for these conversations

Jodi's Recommendation

- Plan
 - After we've gotten data for "who", outcomes, and processes, how are we going to work through the programming "what"s?
 - Start with evidence-based or "stable" programs and models
 - Then homegrown or individualized programs
 - Then services, practices, and other informal interventions
 - Then consider fiscal QA
- Reminders
 - If it isn't feasible to implement, it can't get you the outcomes you want
 - You (locally) still need to decide, "Is this number good or bad? What does it tell us?"
 - Data should inform or drive decisions, not *make* decisions. People make decisions.



Questions & Discussion

