



Evaluation 101 for Practitioners

Kate Kissick and Charlene Zil

NADCP Conference

June 2019



EVALUATION 101 FOR PRACTITIONERS

What to Collect and How to Use it



OVERVIEW

What's evaluation?

Data collection

Drowning in data

Tips and tricks

Questions



WHAT'S EVALUATION?

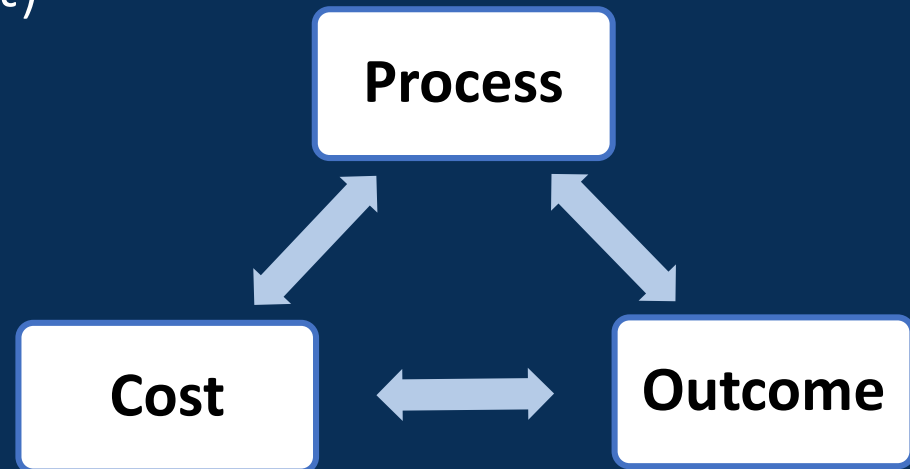
And why should I care?



WHAT'S EVALUATION?

Three main areas of evaluation:

- Process (program improvement)
- Outcome (impact)
- Cost (cost-benefit)



COMMON RESEARCH QUESTIONS

Process

- Is the program maintaining model fidelity?

Outcomes

- Do programs reduce recidivism?
- Are participants successfully completing the program?

Cost

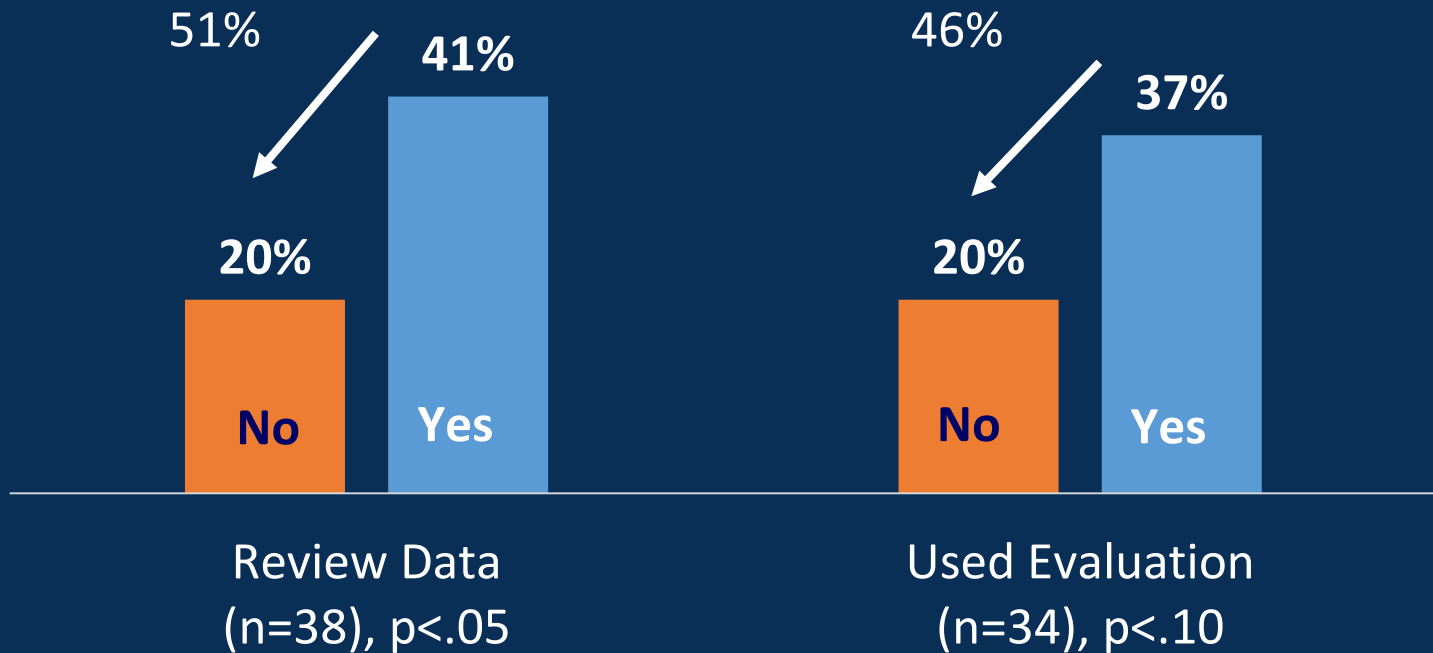
- What are the costs and savings of the program?

TYPES OF EVALUATION

	Formative	Summative
Who?	Typically Internal (you!)	Typically External
What?	Program service delivery	Program outcomes
When?	On-going	End of program*
Why?	Maintain fidelity & improve program	Demonstrate program effectiveness

WHY DO I CARE?

Possible Reductions in Recidivism



Carey, Finigan, & Pukstas (2008);
Carey, Mackin, & Finigan (2012)

DATA COLLECTION

Everything you didn't know you needed



PROGRAM DATA

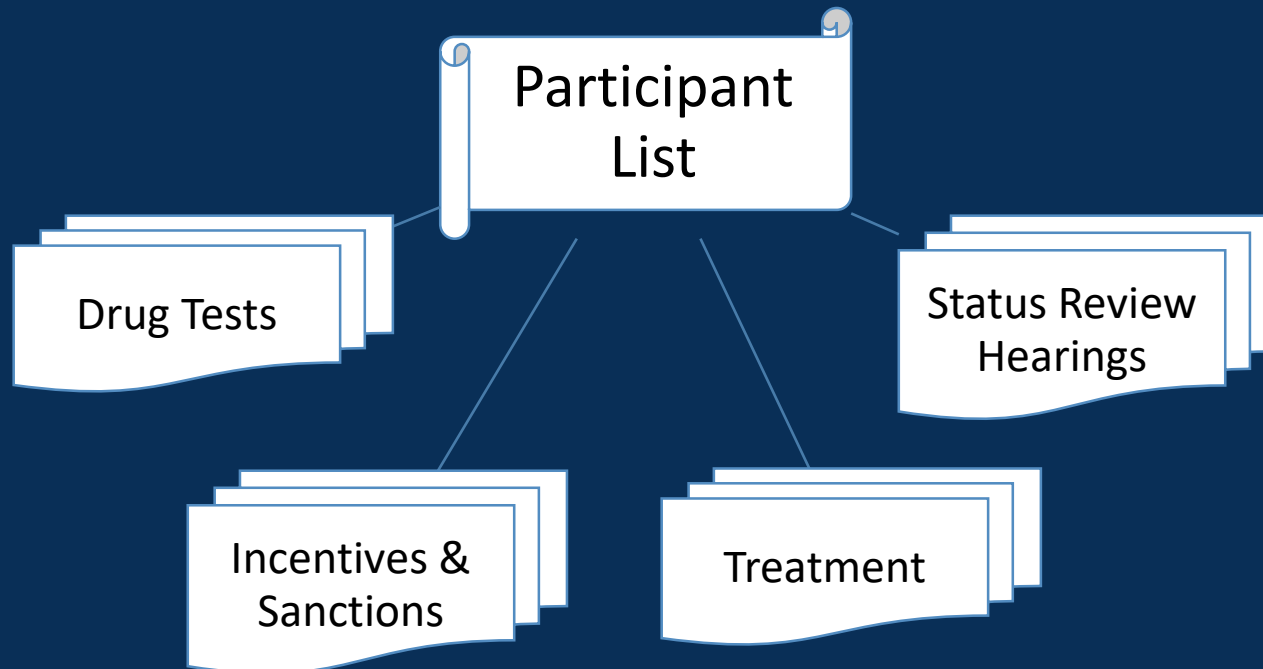
Participant List:

identifiers, demos, referral info, program status, assessment info, social indicators, service needs, etc.

IMPORTANT INFO TO COLLECT

- ✓ Name
- ✓ DOB
- ✓ Gender
- ✓ Race/ethnicity
- ✓ Program entry/exit dates
- ✓ Program status
- ♥ Other unique IDs: SSN, SID, etc.
- ♥ Referral information (arrest date, court case number)
- ♥ Risk/needs scores
- ♥ Substances used

PROGRAM SERVICE DATA



STATUS REVIEW HEARINGS

File Structure

- Usually stacked on dates (multiple rows per person)

Necessary Info

- Dates of hearings
- Attendance*
- Other descriptors (judge presiding, phase promotion, graduation, etc.)*

*As available



DRUG TESTS

File Structure

- Usually stacked on dates (multiple rows per person)

Necessary Info

- Dates of drug tests
- Drug test type: urine analysis, EtG, PBT, oral swab, bracelet, ignition interlock, blood test, hair, patch...
- Results of drug tests: negative, positive (including refused, diluted, and no-shows)



INCENTIVES AND SANCTIONS

File Structure

- Usually stacked on dates (multiple rows per person)

Necessary Info

- Dates of rewards/sanctions
- Type*: rewards, sanctions, treatment responses
- Duration*: specifically for jail days (entry and exit date or number of days), community service hours, etc.

*As available



TREATMENT

File Structure

- Usually stacked on treatment events/episodes (multiple rows per person)

Necessary Info

- Dates of treatment (or start & end dates)
- Duration of treatment
 - Could be days for inpatient/residential
 - Could be hours for outpatient appointments
- Type or modality
- Completion/discharge status



TREATMENT

Treatment Modalities

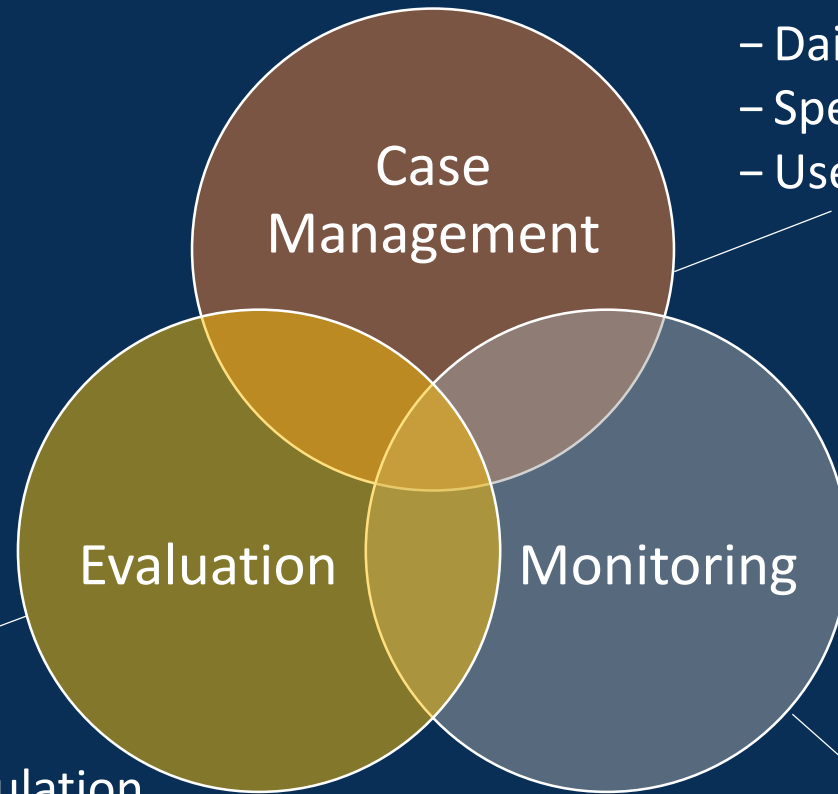
- Inpatient
- Detox
- Residential/transitional
- Group outpatient
- Individual outpatient
- Medication Assisted Therapy (MAT)
- Assessment, case management activities

DROWNING IN DATA!

What to do with it?



WHAT DO YOU WANT TO KNOW?



- Daily
- Specific to individual
- Useful for case managers

- Periodic
- Entire program population
- Useful for policy makers

- Ongoing
- Current program population
- Useful for program managers

CASE MANAGEMENT EXAMPLES

- Who is in Phase 1?
- Whose color came up for a drug test today?
- Who tested positive for drug use yesterday?
- Who missed a treatment session?
- Who complied with all program requirements for the past two weeks?



MONITORING EXAMPLES

- What is our program's graduation rate?
- What is different about those who graduate and those who don't?
- When in our process do participants struggle (and drop out)?
- Are participants receiving the services indicated by their assessment?
- How frequently are we administering incentives, sanctions, and treatment responses?

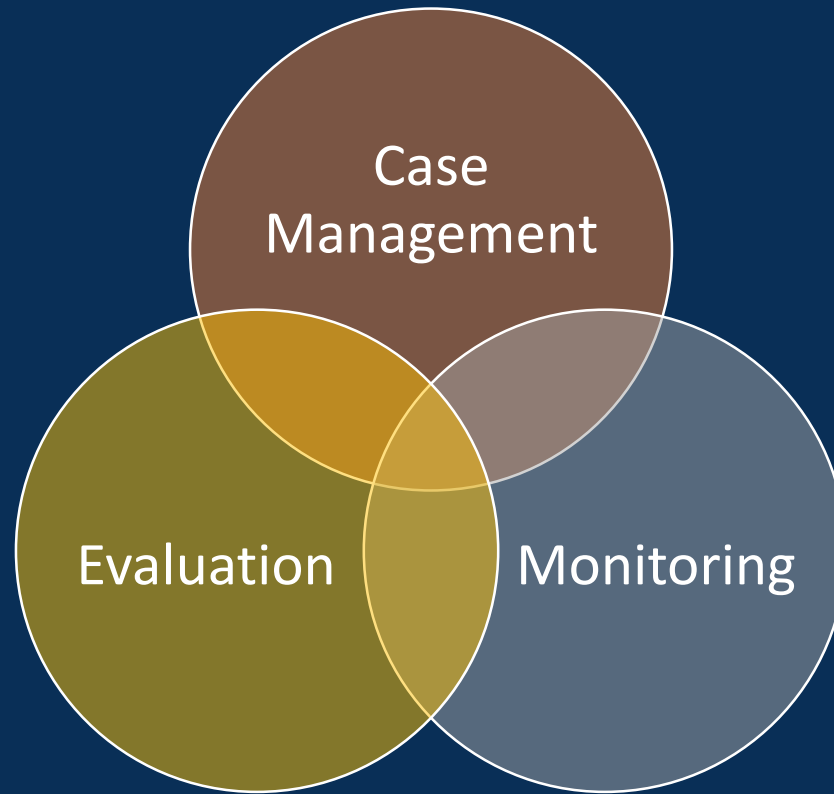


EVALUATION EXAMPLES

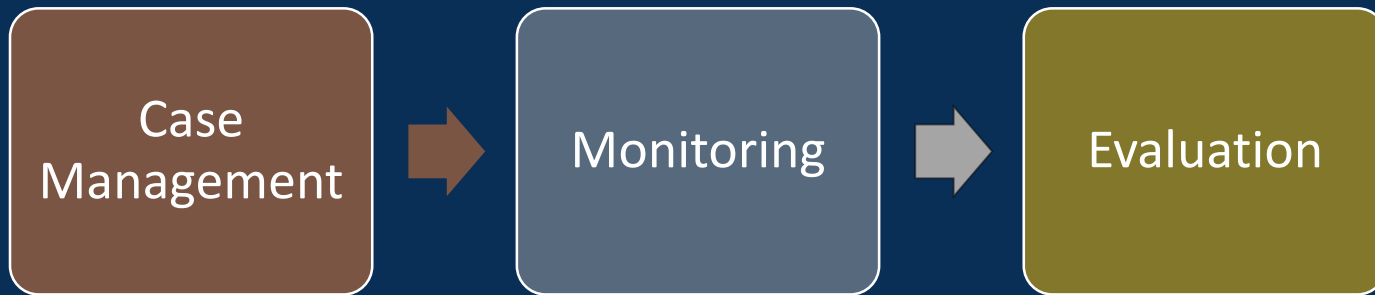
- Does our program reduce recidivism?
- Does our program reduce substance use?
- Does our program increase employment & education?
- Are families in the program reunified?
- What is the cost of program?
- Is our program maintaining fidelity to the Drug Court model?



WHAT IS THE BEST WAY TO TRACK?



WHAT IS THE BEST WAY TO TRACK?



- Online database
- Offline database (e.g., Access database)
- Spreadsheets (e.g., Excel)

WHAT IS THE BEST WAY TO TRACK?

	Online Database	Offline Database	Spreadsheets (Excel)
Automated Reports	✓	✓	✗
Easy Data Entry	✓	✓	✗
Multiple User Entry	✓	?	✗
Data Safeguards	✓	✓	?
Software Knowledge Required	✓	✓	?
Easy Sharing	?	?	✓
Cost	\$\$\$	\$\$	\$

TIPS AND TRICKS

Data magic!



DATA COLLECTION TIPS

- Pay special attention to accuracy of identifiers
- Use drop-down lists or lookup tables to make data entry faster and consistent
 - Don't spend time typing out the risk level each time, select from a list!
- Use data validation (restrictions)
 - Restricting the format on a date field can help eliminate data entry errors



DATA COLLECTION TIPS

If you must use Excel:

- Limit one data element per column
- Put participant characteristics and outcomes on one sheet
- Put treatment, services received, drug tests, incentives & sanctions, and other items that come in multiples on another sheet
- Use drop-downs (under data validation) to link the list of names on one sheet to the others



EXCEL DROP-DOWN EXAMPLE

One sheet with participants:

	A	B	C	D	E
1	Participant Name	DOB	Gender	Referral Date	Start Date
2	Charlene Zil	1/1/1980	F	5/13/2010	5/18/2010
3	Shannon Carey	2/2/1980	F	9/8/2011	9/13/2011
4	Juliette Mackin	3/3/1980	F	12/14/2013	12/19/2013
5	Chad Rodi	4/4/1980	M	4/9/2014	4/14/2014
6					
7					

Participant List | Drug Tests | Drop Down Lists

Another with drug tests:

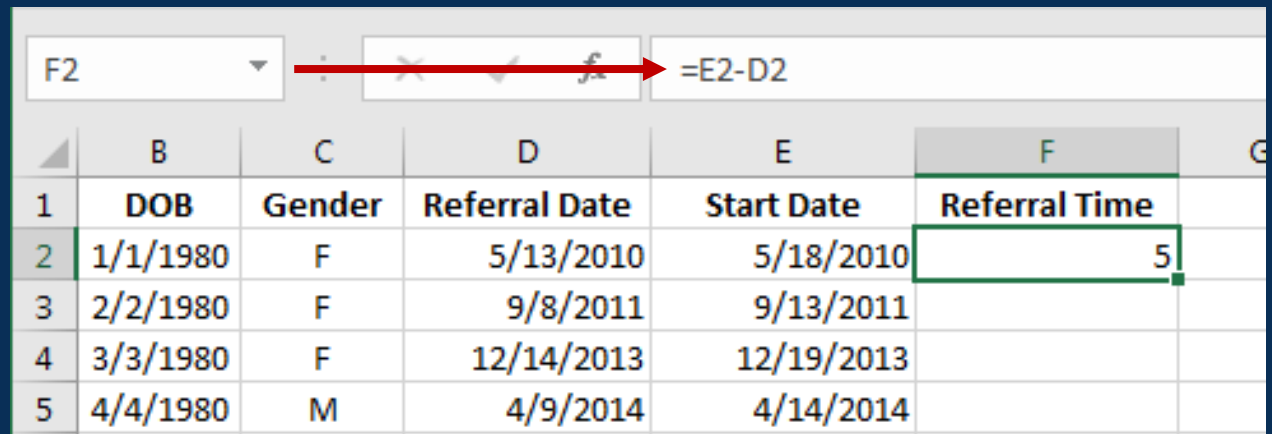
	A	B	C	D
1	Participant Name (linked)	Drug Test Date	Result	Substance
2	Charlene Zil	5/22/2010	Neg	N/A
3	Charlene Zil	5/25/2010	Neg	N/A
4	Charlene Zil	5/29/2010	Pos	Opiates
5				
6	Participant Name			
7	Charlene Zil			
8	Shannon Carey			
9	Juliette Mackin			
10	Chad Rodi			

Drug Tests | Drop Down Lists

ANALYSIS TRICKS

Use the formula bar to calculate ages, referral time, and length in program

Calculate days:
=[End Date]-[Start Date]

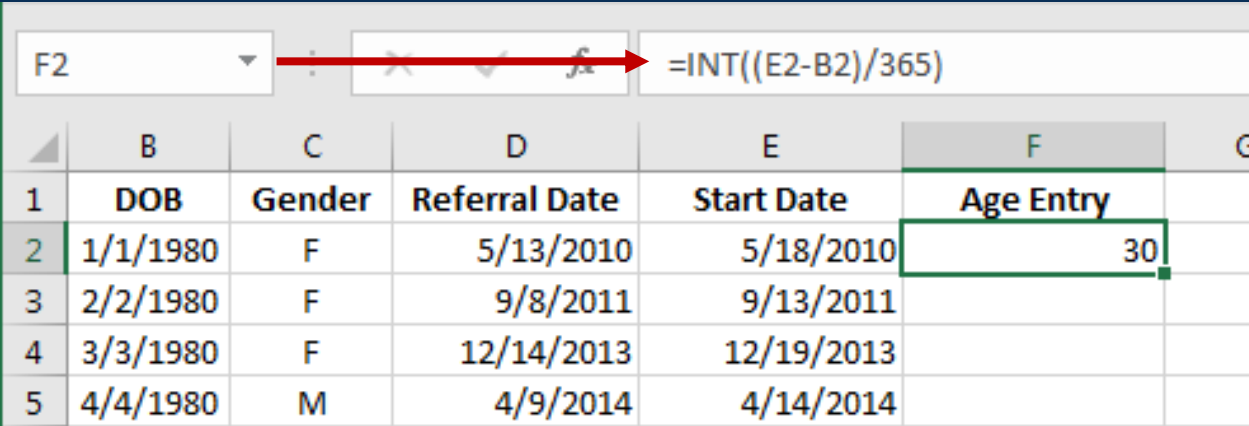


	B	C	D	E	F	G
1	DOB	Gender	Referral Date	Start Date	Referral Time	
2	1/1/1980	F	5/13/2010	5/18/2010	5	
3	2/2/1980	F	9/8/2011	9/13/2011		
4	3/3/1980	F	12/14/2013	12/19/2013		
5	4/4/1980	M	4/9/2014	4/14/2014		

ANALYSIS TRICKS

Use the formula bar to calculate ages, referral time, and length in program

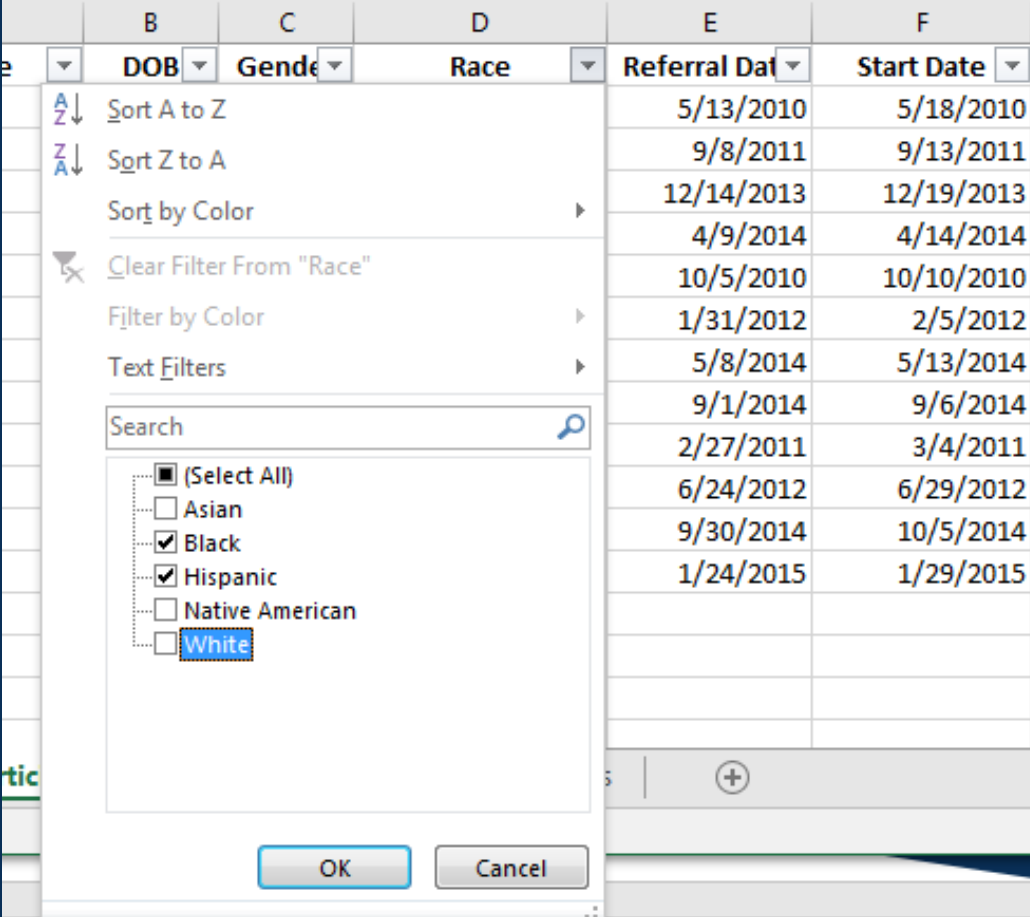
Calculate years:
=INT(([End Date]-
[Start Date])/365)



	B	C	D	E	F	G
1	DOB	Gender	Referral Date	Start Date	Age Entry	
2	1/1/1980	F	5/13/2010	5/18/2010	30	
3	2/2/1980	F	9/8/2011	9/13/2011		
4	3/3/1980	F	12/14/2013	12/19/2013		
5	4/4/1980	M	4/9/2014	4/14/2014		

ANALYSIS TRICKS

Filters:



The screenshot shows an Excel spreadsheet with columns B through F. Column B is labeled 'DOB', C is 'Gender', D is 'Race', E is 'Referral Date', and F is 'Start Date'. A filter dropdown menu is open for the 'Race' column. The menu includes options for sorting (A to Z, Z to A), clearing the filter, and filtering by color. Below these are 'Text Filters' and a search box. A list of race categories is shown with checkboxes: (Select All), Asian, Black, Hispanic, Native American, and White. The 'White' checkbox is highlighted in blue. At the bottom of the menu are 'OK' and 'Cancel' buttons.

DOB	Gender	Race	Referral Date	Start Date
			5/13/2010	5/18/2010
			9/8/2011	9/13/2011
			12/14/2013	12/19/2013
			4/9/2014	4/14/2014
			10/5/2010	10/10/2010
			1/31/2012	2/5/2012
			5/8/2014	5/13/2014
			9/1/2014	9/6/2014
			2/27/2011	3/4/2011
			6/24/2012	6/29/2012
			9/30/2014	10/5/2014
			1/24/2015	1/29/2015

OTHER USEFUL EXCEL FEATURES

Pivot Tables:

	A	B	C	D
1	Year	(All)		
2				
3	Count of Program Status	Column Labels		
4	Row Labels	Discharged	Graduate	Grand Total
5	F	25%	75%	100%
6	M	50%	50%	100%
7	Grand Total	40%	60%	100%
8				

PivotTable Fields

Choose fields to add to report: [Settings]

Search

- Gender
- Race
- Referral Date
- Start Date
- Year
- Age Entry
- Program Status

MORE TABLES...

Drag fields between areas below:

FILTERS	COLUMNS
Year	Program Status

ROWS	VALUES
Gender	Count of Prog...

QUESTIONS?



RESOURCES

Buffalo Drug Court database:

[https://jpo.wrlc.org/bitstream/handle/11204/1080/Buffalo%20OMIS%20Announcement%20\(New%20York\).pdf?sequence=4](https://jpo.wrlc.org/bitstream/handle/11204/1080/Buffalo%20OMIS%20Announcement%20(New%20York).pdf?sequence=4)

Using drop-down lists in Excel:

<https://support.office.com/en-us/article/Create-a-drop-down-list-7693307a-59ef-400a-b769-c5402dce407b>

Using pivot tables in Excel:

<https://support.office.com/en-us/article/Create-a-PivotTable-to-analyze-worksheet-data-a9a84538-bfe9-40a9-a8e9-f99134456576>



CONTACT INFORMATION

Kate Kissick

Kissick@NPCresearch.com

Charlene Zil

Zil@NPCresearch.com

