

*Evidence from Investments in
ECE Quality*
**Association between Receipt of
TA and Earning a QRIS Rating**

2014 Child Care and Education
Researchers Roundtable

October 29th 2014

Troutdale, OR





Pat Aldrich
aldrichp@wou.edu

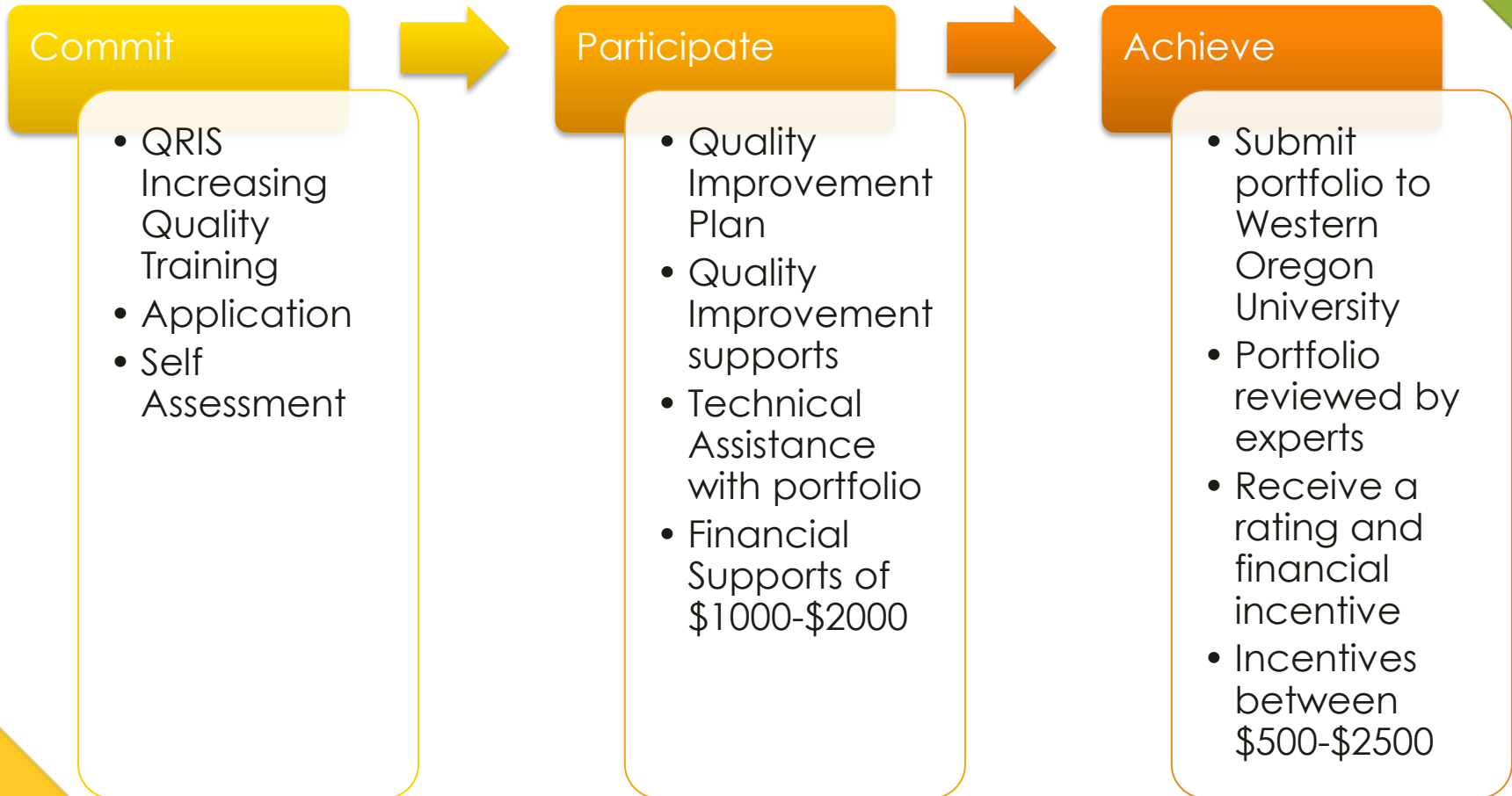
Sybille Guy, Ph.D.
guys@wou.edu



Outline

- Brief Overview of Oregon's QRIS Process Evaluation
- Methods and Data Sources
- Results
- Conclusions

Basics of the QRIS Process



QRIS Process Evaluation

- The *purpose* of the QRIS Process Evaluation is to provide information to guide the development and implementation of the QRIS.
- In order to assist the field study, processes and procedures are carefully examined and assessed for recommendations for continued improvement.

Program Improvement Process

- Programs work with Quality Improvement Specialists.
- The improvement phase consists of different types of assistance from training to aid in documentation.

How Many Programs?



	Number of Licensed Programs (New in September)	Achieved Commitment to Quality (C2Q)	Star Rated Programs.....		
			3	4	5
 CC	914 (19)	297	16	6	3
 CF	666 (27)	142	28	8	10
 RF	2,522 (24)	178	33	5	1
 AC	63	29	2	4	16
 HS	141 (5)	67	0	2	12
 Totals	4,306	713	79	25	42

CC = Certified Center; CF = Certified Family; RF = Registered Family; AC = Accredited Programs; HS = Head Start



The Question

HOW DOES THE AMOUNT OF TECHNICAL ASSISTANCE IMPACT A PROGRAM'S QRIS RATING?

Methods

- Data from Technical Assistance (TA) logs maintained by the QIS
- Documentation of all aspects of interactions with programs
- Main items collected: License numbers, Time spent with program, and topic of interaction
- *Assumption: All contacts logged correctly*

Methods

- Portfolio-reviewed programs
- N = 171 portfolios
 - Exclusions: Head Start – Accredited Programs – Multi-Sites
- Examined number of contacts and time spent with program
- Two Logistic Regressions performed in R
- Dependent Variable: Binomial (Rating Yes/No)
- Independent Variables: # of Contacts/Total Time (minutes), Program Type

Programs Examined

The proportion of programs who achieved a star rating was lower among Certified Centers.

	Total # of Programs	Achieved Rating	% Achieved Rating
CC	56	24	43
CF	54	32	59
RF	61	34	56

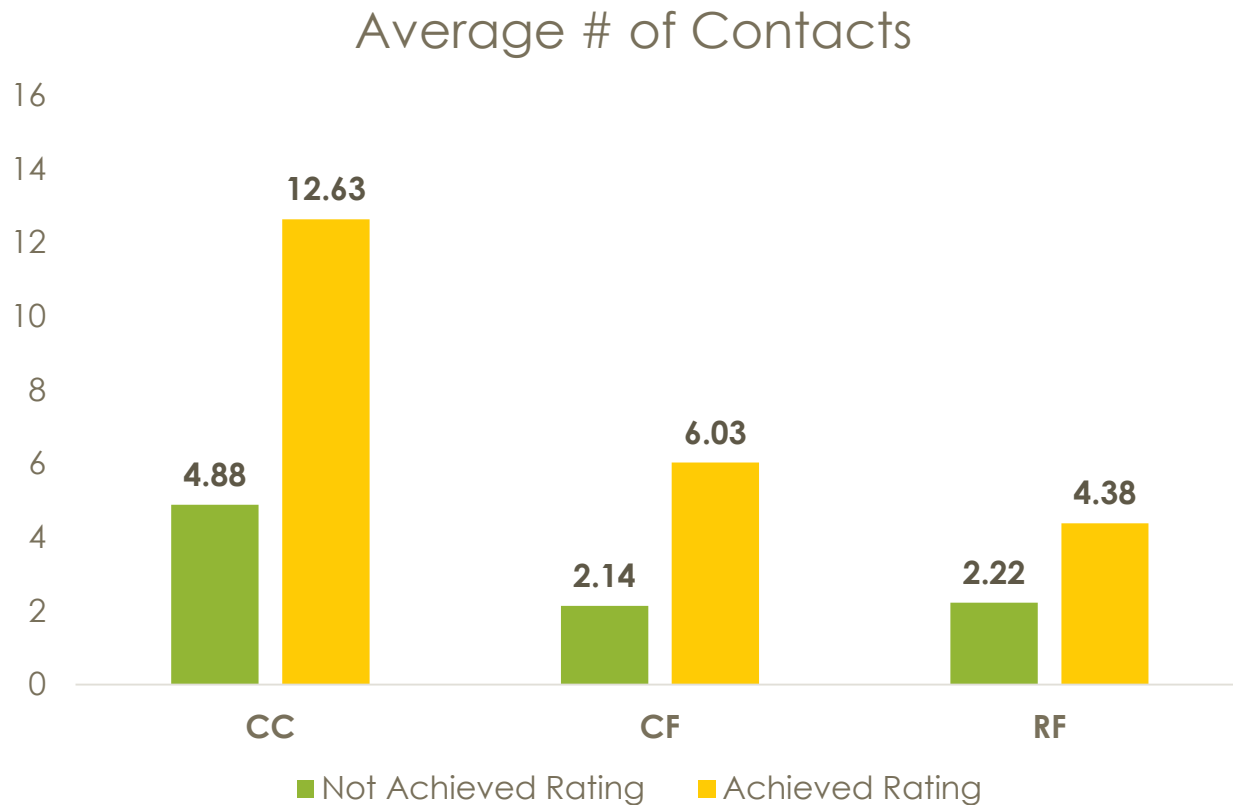
CC = Certified Center; CF = Certified Family; RF = Registered Family

Summary Statistics

Programs who achieved a QRIS ratings received more contacts by QISs and spent more time with QISs.

	Not Achieved Rating	Achieved Rating
Average # of Contacts	3.25	7.17
Average Time Spent (mins)	127.84	343.97

Significantly More Contacts by QISs with Programs who Achieved Ratings



CC = Certified Center; CF = Certified Family; RF = Registered Family



Logistic Regression

Is there a significant difference between number of contacts and achievement of rating? Is there also a significant difference between number of contacts and type of program?

	Estimate	Std. Error	z-value	Pr(> z)
(Intercept)	-1.39115	0.3975	-3.5	0.000466
Contact	0.13935	0.03481	4.003	6.24E-05
rr\$Type2	1.24424	0.44781	2.779	0.005461
rr\$Type3	1.18099	0.43373	2.723	0.006472

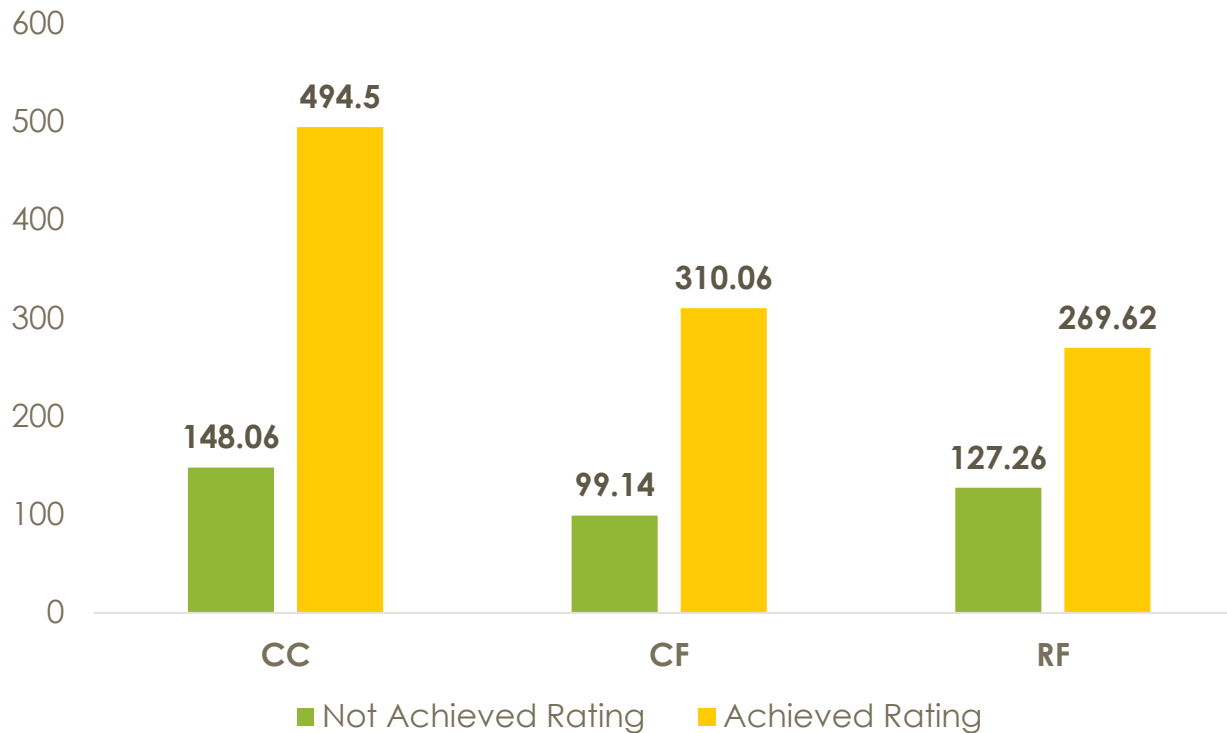
Number of contacts with programs is significant: the more times a program was contacted, the higher the likelihood of a rating.

There was a significant difference in number of contacts and program type, with Centers receiving more contacts than either types of family childcare.

- Model: `glm(formula = Rate ~ Contact + Type, family = binomial(logit), data = rr)`

More Time Spent by QISs with Programs who Achieved Ratings

Overall Average (Time Spent in mins)



CC = Certified Center; CF = Certified Family; RF = Registered Family

Logistic Regression

Is there a significant difference between time spent and achievement of rating? Is there also a significant difference between time spent and type of program?

	Estimate	Std. Error	z-Value	Pr(> z)
(Intercept)	-1.02885	0.387255	-2.657	0.00789
Total	0.002809	0.001156	2.43	0.01511
Type2	0.819695	0.534877	1.532	0.1254
Type3	0.829828	0.511537	1.622	0.10476
Total:Type2	0.000634	0.002098	0.302	0.76242
Total:Type3	-0.0005	0.001699	-0.293	0.76988

Time spent with programs is significant: the more time spent, the higher the probability of a rating.

Time spent and type of program show no significant interaction, meaning there is no difference between program type when it comes to time spent to achieve a star rating.

- Model: `glm(formula = Rate ~ Total + Type + Total * Type, family = binomial(logit), data = rr)`

Conclusions

- The more often a program is contacted by a QIS, the higher the likelihood of achieving a star rating.
- Centers received more contacts than either type of family providers; however, this did not increase the likelihood of them achieving a rating.

Conclusions

- Clearly, the more time spent on technical assistance by Quality Improvement Specialists improves the probability a program will achieve a QRIS rating.
- This holds true for all types of programs.



Pat Aldrich
aldrichp@wou.edu

Sybille Guy, Ph.D.
guys@wou.edu

