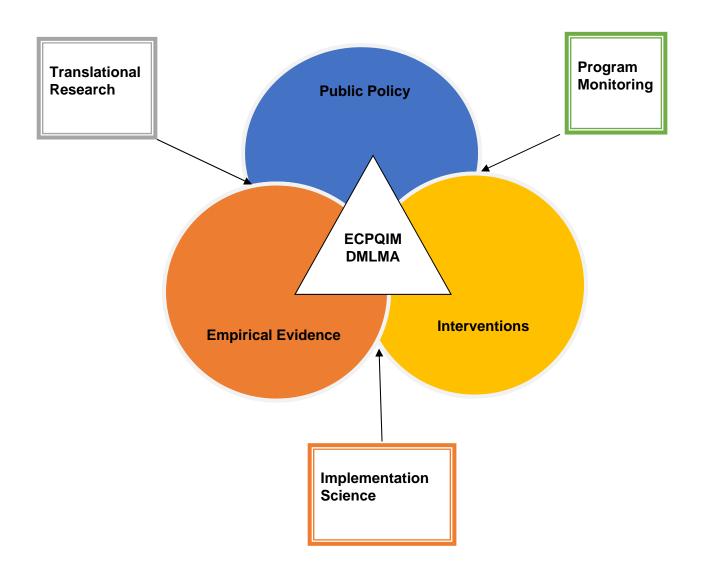
# THE INTERSECTION OF TRANSLATIONAL RESEARCH AND IMPLEMENTATION SCIENCE: AN EARLY CHILDHOOD PREDICTIVE ANALYTIC MODEL (ECPQIM4©)

Richard Fiene, Ph.D.

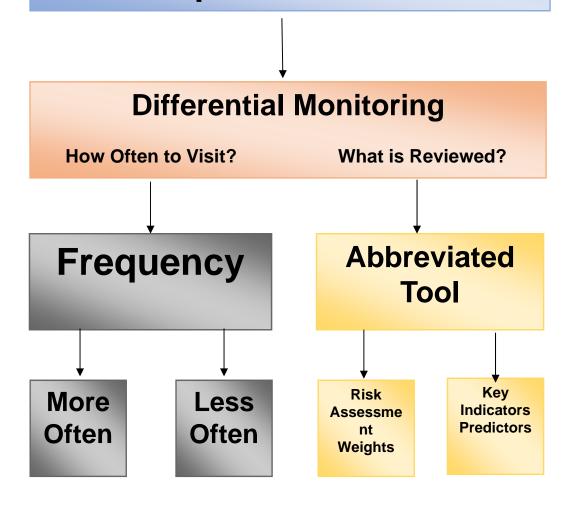
February 11, 2015

Bennett Pierce Prevention Research Center Seminar Presentation, Penn State University





# All Licensing Rules – Full Compliance Reviews



# DIFFERENTIAL MONITORING LOGIC MODEL & ALGORITHM (DMLMA©) (Fiene, 2014): A 4<sup>th</sup> Generation ECPQIM – Early Childhood Program Quality Indicator Model

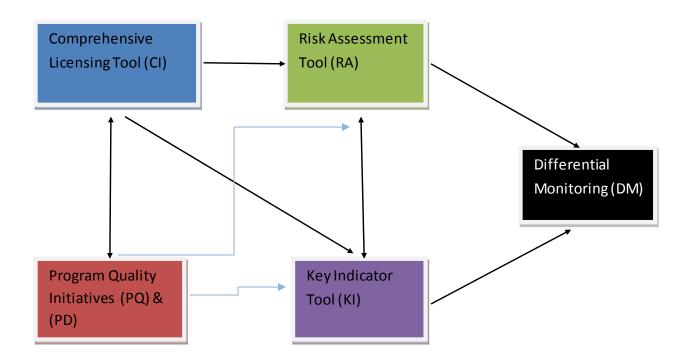
 $CI \times PQ(PD) \Rightarrow RA + KI \Rightarrow DM \Rightarrow CO$ 

### **Definitions of Key Elements:**

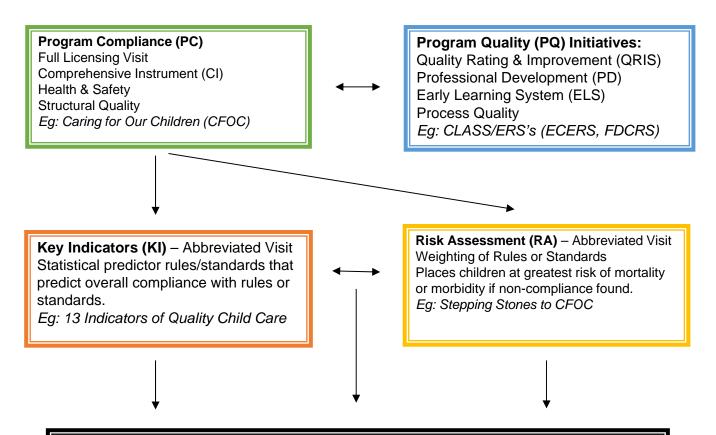
CI = Comprehensive Licensing Tool (Health and Safety)(Caring for Our Children)(Structural Quality)
PQ = Program Quality Initiatives (ECERS-R, FDCRS-R, CLASS, CDPES, QRIS, Accreditation) (Process Quality)
PD = Program Quality Initiatives (cont) - Professional Development/Technical Assistance/Training
RA = Risk Assessment, (High Risk Rules/Standards)(Stepping Stones)

KI = Key Indicators (Predictor Rules/Standards)(13 Key Indicators of Quality Child Care)

DM = Differential Monitoring, (How often to visit and what to review)
CO = Child Outcomes (Developmental, Health, & Safety Outcomes)



# Early Childhood Program Quality Indicator Model (ECPQIM4©): Differential Monitoring Logic Model (DMLM©)(Fiene, 2014)



**Differential Monitoring (DM):** How often to visit – More or Less? And what is reviewed – More or Less? Time saved on the compliant programs can be used with the non-compliant programs. This should create a more cost effective and efficient program monitoring system with targeted reviews which should ultimately lead to better outcomes (CO) for the children and their families served in the programs.

# **Differential Monitoring Scoring Protocol (DMSP)**©

Score	Systems Present No systems in place.					
0						
2	KI or RA in place and not linked.					
4	(KI & RA in place but not linked) or (PC + PQ are linked).					
6	(KI & RA in place) & (KI + RA are linked).					
8	(KI & RA in place but not linked) & ((PC + PQ) are linked).					
10	All systems in place and linked.					

# Differential Monitoring Scoring Protocol (DMSP)© Point Assignment

Score	Systems Present and Point Assignment					
0	No systems in place.					
2	(KI (1)) & (KI -> DM (1)) or ((RA (1)) & (RA -> DM (1))					
4	(PC + PQ (4)) or (KI (1) & (KI -> DM (1)) & (RA (1) & (RA -> DM (1))					
6	(KI + RA -> DM (4)) & (KI (1)) & (RA (1))					
8	(KI (2) & RA (2)) & (PC + PQ (4)).					
10	(KI + RA -> DM (4)) & (KI (1)) & (RA (1)) & (PC + PQ (4))					

KI (Key Indicators); RA (Risk Assessment); PC (Program Compliance/Licensing); PQ (Program Quality Initiatives; DM (Differential Monitoring).

### **10 POINTS**

ALL SYSTEMS IN PLACE AND LINKED.

Example HEAD START

### 8 POINTS

KI & RA IN PLACE BUT NOT LINKED; AND PC & PQ LINKED.

Example Georgia

### 6 POINTS

KI & RA IN PLACE & LINKED.

Examples
Illinois
New York

### 4 POINTS

KI & RA IN PLACE BUT NOT LINKED OR PC & PQ LINKED.

Example None

### 2 POINTS

KI OR RA IN PLACE.

Examples Colorado Kansas 0 POINTS

NO SYSTEMS

SYSTEMS (pts)	MODEL	GA	NY	HS	IL	KS	СО
KI (1)	1	_	1	1	1	1	1
RA (1)	1	1	1	1	1	-	-
KI + RA -> DM (4)	4	2	4	4	4		
KI + RA (2)							
PC + PQ (4)	4	4	-	4	-	-	-
KI -> DM (1)						1	1
RA -> DM (1)		1				-	-
TOTAL (10)	10	8	6	10	6	2	2

# For Additional Information:

Richard Fiene, Ph.D., Director

Research Institute for Key Indicators LLC (RIKI)

## **Email:**

**DrFiene@gmail.com** 

### Website:

http://RIKInstitute.wikispaces.com/home/