DIFFERENTIAL MONITORING LOGIC MODEL (DMLM©): A NEW EARLY CHILDHOOD PROGRAM QUALITY INDICATOR MODEL (ECPQIM©) FOR EARLY CARE AND EDUCATION REGULATORY AGENCIES

Richard Fiene, Ph.D.

January 2015

ABSTRACT

A new Early Childhood Program Quality Indicator Model (ECCPQIM©) is described which utilizes targeted program monitoring (Differential Monitoring) via two licensing methodologies: Key Indicators and Risk Assessments. The theoretical & conceptual framework as well as a logic model are presented along with a scoring protocol that can be utilized to compare state and national organizations on how they are designing and implementing their program monitoring systems. A state plan is presented as well as results from five (5) states (Georgia, Kansas, Illinois, Colorado, and New York) and a national organization (Office of Head Start). The five states and national organization are then compared using the Differential Monitoring Scoring Protocol (DMSP©). The Head Start program monitoring system scored a perfect 10 out of 10 in utilizing the DMSP©.
DIFFERENTIAL MONITORING LOGIC MODEL (DMLM©): A NEW EARLY CHILDHOOD PROGRAM QUALITY INDICATOR MODEL (ECPQIM4©) FOR EARLY CARE AND EDUCATION REGULATORY AGENCIES

Richard Fiene, Ph.D.

January 2015

*Introduction*

This Differential Monitoring Logic Model (DMLM©) provides a new Early Childhood Program Quality Indicator Model (ECPQIM4©) in which the major monitoring systems in early care and education are integrated conceptually so that the overall early care and education system can be assessed and validated. With this new model, it is now possible to compare results obtained from licensing systems, quality rating and improvement systems (QRIS), risk assessment systems, key indicator systems, technical assistance, and child development/early learning outcome systems (see Figures 1 & 2 for a graphical depiction of the theoretical underpinnings and actual design & logic model for the ECPQIM4©/DMLM).

The DMLM© can be used by state agencies (child care, child residential, adult residential (just replace Child Outcomes with Adult Outcomes)), Federal agencies (Head Start, child care, Pre-K), and large provider organizations where an economy of scale is required. This model can be used with state as well as national standards, such as state licensing rules/regulations and *Head Start Performance Standards* or *Caring for Our Children/Stepping Stones*. Most states and Federal agencies have either some or all of the key elements of this model in their overall
monitoring systems. The purpose of this model is to alter a one-size fits all monitoring system to one that is targeted, spending more time with problem programs who need additional assistance. This is a cost neutral model that is both cost effective and efficient and re-allocates resources from the compliant programs to the non-compliant programs.

Figure 1

The Theoretical Underpinnings for ECPQIM©: Early Childhood Program Quality Indicator Model©
Key Elements (see Figure 2): CI = state or federal standards, usually rules or regulations that measure health and safety - Caring for Our Children or Head Start Performance Standards will be applicable here. PQ = Quality Rating and Improvement Systems (QRIS) standards at the state level; ERS (ECERS, ITERS, FDCRS), CLASS, or CDPES (Fiene, 2007). RA = risk assessment tools/systems in which only the most critical rules/standards are measured. Stepping Stones is an example of this approach. KI = key indicators in which only predictor rules/standards are measured. The Thirteen Indicators of Quality Child Care is an example of this approach. DM = differential monitoring decision making in which it is determined if a program is in compliance or not and the number of visits/the number of rules/standards are ascertained from a scoring protocol. PD = technical assistance/training and/or professional development system which provides targeted assistance to the program based upon the DM results. CO = child outcomes which assesses how well the children are developing which is the ultimate goal of the system.

Once the above key elements are in place, it is then possible to look at the relationships amongst them to determine if the system is operating as it was intended; in other words, to determine if the DM system is improving the health, safety, program quality and ultimately the overall development of the children it serves.

The DMLM© provides a cross-cutting methodology that can be used in all early care and education delivery systems as well as in other human services. In the past many of these monitoring systems have functioned in silos. The DMLM© integrates all these various
monitoring systems together so that the overall monitoring system can be validated as being cost effective and efficient.

Figure 2

Early Childhood Program Quality Indicator Model (ECPQIM©):
Differential Monitoring Logic Model (DMLM©)
Comprehensive National Example

Program Compliance (PC)
Full Licensing Visit
Comprehensive Instrument/Tool (CI)
Health & Safety
Structural Quality
Eg: Caring for Our Children (CFOC)

Program Quality (PQ) Initiatives:
Quality Rating & Improvement (QRIS)
Professional Development (PD)
Early Learning System (ELS)
Process Quality
Eg: CLASS/ERS’s (ECERS, FDCRS)

Key Indicators (KI) – Abbreviated Visit
Statistical predictor rules/standards that predict overall compliance with rules or standards.
Eg: 13 Indicators of Quality Child Care

Risk Assessment (RA) – Abbreviated Visit
Weighting of Rules or Standards
Places children at greatest risk of mortality or morbidity if non-compliance found.
Eg: Stepping Stones to CFOC

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.
Methodology

State Agency Plan for implementing a Differential Monitoring System:

The **first step** in utilizing the DMLM© for a state is to take a close look at its Comprehensive Licensing Tool (CI) that it uses to collect violation data on all rules with all facilities in its respective state. If the state does not utilize a tool or checklist or does not review all violation data than it needs to consider these changes because the DMLM© is based upon an Instrument Based Program Monitoring System (IPM) which utilizes tools/checklists to collect data on all rules.

The **second step** for the state is to compare their state’s rules with the National *Health and Safety Performance Standards (Caring for Our Children)* to determine the overlap and coverage between the two.

The **third step** for the state if it utilizes a Risk Assessment (RA) tool is to assess the relationship between this tool and *Stepping Stones* to determine the overlap and coverage between the two.

The **fourth step** for the state is to compare the results from the CI with the RA tools.

In the **fifth step**, if a state is fortunate enough to have a QRIS – Quality Rating and Improvement System in place and has sufficient program quality (PQ) data available then they will have the
ability to compare results from their CI tool with their PQ tool and validate outputs by
determining the relationship between compliance with health and safety rules (CI) and program
quality (PQ) measures, such as the ERS’s, CLASS, CDPES, etc… This is a very important step
because very few empirical demonstrations appear in the research literature regarding this
relationship.

The sixth step is for the state to generate a Key Indicator (KI) tool from the CI data base. Please
see Fiene & Nixon (1985) and Fiene & Kroh (2000) for a detailed explanation of the
methodology for generating a KI tool. If a state did not want to use the KI methodology, a direct
comparison could be drawn from The Thirteen Indicators of Quality Child Care (Fiene, 2002).

The seventh step for the state is to use the RA and KI tools together to determine overall
compliance of facilities and how often and which rules will be monitored for future visits. This
is the basic component of a Differential Monitoring (DM) approach. Also, this step should drive
decisions within the technical assistance/training/professional development (PD) system in what
resources are allocated to a particular facility.

The eighth and final step for the state is to compare the results from the various monitoring
tools (CI, PQ, RA, KI) with any child development outcome (CO) data they collect. This is a
relatively new area and few, if any, states at this point have this capability on a large scale.
However, as Early Learning Networks/Systems and Standards (ELS) are developed, this will
become more common place.
The ECPQIM©DMLM© is presented without two additional items that were present in the 2012/2013 versions which are important to note. The algorithm (Fiene, 2012, 1013) and validation framework (Zellman & Fiene, 2012) are not presented because the author felt that these two components took away from a more direct presentation of differential monitoring. For those interested readers, please refer to my previous abstracts (Fiene, 2012, 2013) which included the algorithm and validation frameworks.

Just a brief word about the Theoretical Underpinnings for ECPQIM©. This graphic (Figure 1) attempts to provide the relationships amongst public policy, interventions, and empirical evidence through the lens of translational research, implementation science, and program monitoring. In constructing the ECPQIM© I have borrowed concepts from each area and integrated them in a model for monitoring early care and education programs. The graphic provides a means for displaying the relationships and potential intersections as well as the content that is important to each scientific/research field.

Figure 3 is provided as additional information regarding differential monitoring conceptually without all the details as in figure 2; and figure 4 is provided to demonstrate the impact that a state’s licensing law can have on using the Key Indicators and Risk Assessment methodologies. Also, taking Figure 2 and attempting to quantify these relationships, I am proposing a scoring protocol as depicted in Table 1. This can provide a numerical means of comparing various differential monitoring systems and their relative strength. This protocol could be a useful tool in future research for determining which combinations work best.
Figure 3
Licensing Rules, Compliance Reviews, Differential Monitoring, Abbreviated Tools, Risk Assessment, and Key Indicators

All Licensing Rules – Full Compliance Reviews

Differential Monitoring
How Often to Visit? What is Reviewed?

Frequency
More Often Less Often

Abbreviated Tool
Risk Assessment Weights Key Indicators Predictors
Figure 4
When Key Indicators and Risk Assessments Can Be Used

The Licensing Law:
All Rules that are promulgated based upon the Law

Compliance Decision:
100% compliance with all rules all the time.

Key Indicators are ok to use.

Risk Assessment CANNOT be used.

Compliance Decision:
Substantial (96-99%) but not 100% compliance with all rules all the time.

Key Indicators are ok to use.

Risk Assessment ok to use.

Table 1: Differential Monitoring Scoring Protocol (DMSP)©

<table>
<thead>
<tr>
<th>Score</th>
<th>Systems Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No systems in place.</td>
</tr>
<tr>
<td>2</td>
<td>KI or RA in place and not linked.</td>
</tr>
<tr>
<td>4</td>
<td>(KI &amp; RA in place but not linked) or (PC + PQ are linked).</td>
</tr>
<tr>
<td>6</td>
<td>(KI &amp; RA in place) &amp; (KI + RA are linked)</td>
</tr>
<tr>
<td>8</td>
<td>(KI &amp; RA in place but not linked) &amp; ((PC + PQ) are linked).</td>
</tr>
<tr>
<td>10</td>
<td>All systems in place and linked.</td>
</tr>
</tbody>
</table>
Results

I have written extensively about an Early Childhood Program Quality Indicator Model (ECPQIM©) and its latest iteration presented as a logic model: Differential Monitoring Logic Model (DMLM©). Several states and Head Start have used the model in order to re-align their program monitoring systems. This paper will present the results of those new program monitoring systems through the lenses of the ECPQIM©/DMLM© logic model display. Each particular approach used various components of the overall comprehensive national model and I have highlighted those sections by connecting arrows.

The interested reader should obtain a copy of the Office of Child Care’s Licensing Brief on Differential Monitoring, Risk Assessment, and Key Indicators published by the National Center on Child Care Quality Improvements which gives additional details regarding these approaches and methodologies as well as other state examples. Please go to the following URL website: (https://childcareta.acf.hhs.gov/sites/default/files/1408_differential_monitoring_final_1.pdf). In fact, this paper builds upon that excellent Licensing Brief.

Let’s start with Figure 1 which provides the Comprehensive National Example that depicts all the possible interconnections and gives national examples from the research literature. As one will see, it is possible for a national organization or a state agency to select the various components from the model based upon what is available in their particular organization or state. All do have the program compliance/licensing component but not all have fully functional program quality initiatives or do not have the data to draw from the program quality initiatives.
The next level of components are the key indicator and risk assessment approaches or methodologies which organizations or state agencies can use alone or in tandem. One limitation in the key indicator methodology is not to use it with program initiatives if the data are not severely skewed in their data distribution as is the case with licensing data.

The last component is the resulting differential monitoring approach based upon the results from using the key indicator and risk assessment methodologies either alone or in tandem. This is the ultimate revision of the program monitoring system in which how often and what is reviewed are answered.

All the components are highlighted in Figure 5 because all are possibilities to be used by a national or state agency. The examples in Figure 5 are drawn from the national research literature so *Caring for Our Children* is the example for Program Compliance, Licensing, Health & Safety Comprehensive Instrument. The following examples in Figures 6-11 will show some differences in how national and state agencies have developed their respective differential monitoring systems. The tables (Tables 1-3) at the end of this paper (page 21-22) explains the scoring protocol. Also see the end of the paper for an explanation of Notes a,b,c (page 22).

Figure 5

Program Compliance (PC)
- Full Licensing Visit
- Comprehensive Instrument (CI)
- Health & Safety
- Structural Quality
  
  *Eg: Caring for Our Children (CFOC)*

Program Quality (PQ) Initiatives:
- Quality Rating & Improvement (QRIS)
- Professional Development (PD)
- Early Learning System (ELS)
- Process Quality
  
  *Eg: CLASS/ERS’s (ECERS, FDCRS)*

Key Indicators (KI) – Abbreviated Visit
- Statistical predictor rules/standards that predict overall compliance with rules or standards.
  
  *Eg: 13 Indicators of Quality Child Care*

Risk Assessment (RA) – Abbreviated Visit
- Weighting of Rules or Standards
- Places children at greatest risk of mortality or morbidity if non-compliance found.
  
  *Eg: Stepping Stones to CFOC*

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.

Figure 6 provides an example from New York where the state agency is attempting to restructure their early care and education program monitoring system to have a better balance between licensing and key program quality indicators. The plan is to have licensing staff collect data from both areas which means a need to save time in the licensing reviews via key indicators and to only identify indicators of quality through a risk assessment approach. The results from these
Running Head: Differential Monitoring Logic Model

two methodologies will then be combined into a Quality Indicators Instrument to be used by licensing staff in their annual reviews.

(ECPQIM4©)(DMLM©): New York Example (NY)

Figure 6

Program Compliance (PC)
- Full Licensing Visit
- Comprehensive Instrument (CI)
- Health & Safety
- Structural Quality
  *Eg: New York Licensing Rules*

Program Quality (PQ) Initiatives:
- Quality Rating & Improvement (QRIS)
- Professional Development (PD)
- Early Learning System (ELS)
- Process Quality
  *Eg: CLASS/ERS’s (ECERS, FDCRS)*

Key Indicators (KI) – Abbreviated Visit
- Statistical predictor rules/standards that predict overall compliance with rules or standards.
  *Eg: New York Key Indicators*

Risk Assessment (RA) – Abbreviated Visit
- Weighting of Rules or Standards
- Places children at greatest risk of mortality or morbidity if non-compliance found.
  *Eg: Selected Quality Indicators*

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.

Figure 7 provides an example from Georgia in which the driving methodology is a risk assessment core rule review system that results in a differential monitoring system called the Annual Compliance Determination Worksheet (ACDW) approach. Key indicators are not used directly but were used as part of the risk assessment core rule development. Please note
how the relationship amongst the various components is different from the NYQI approach delineated in Figure 6. There is a link to their program quality initiatives which proved very significant in the validation studies performed on their Core Rule differential monitoring system.

**Figure 7**

**Program Compliance (PC)**
- Full Licensing Visit
- Comprehensive Instrument (CI)
- Health & Safety
- Structural Quality
  *Eg: Georgia Licensing Rules*

**Program Quality (PQ) Initiatives:**
- Quality Rating & Improvement (QRIS)
- Professional Development (PD)
- Early Learning System (ELS)
- Process Quality
  *Eg: ERS’s (ECERS, FDCRS)*

**Key Indicators (KI) – Abbreviated Visit**
- Statistical predictor rules/standards that predict overall compliance with rules or standards.
  *Eg: 13 Indicators of Quality Child Care*

**Risk Assessment (RA) – Abbreviated Visit**
- Weighting of Rules or Standards
- Places children at greatest risk of mortality or morbidity if non-compliance found.
  *Eg: Core Rules*

**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.  
  *Eg: Annual Compliance Determination Worksheet (ACDW)*

Figure 8 presents a very different approach from the previous two approaches. In Kansas’s case, the state agency was only interested in developing a key indicator approach and was not interested in risk assessment nor had the capability to tie data together from their program quality
initiatives. This is noted by the arrow connections and yellow highlighting which is more minimal in this figure. As one can see, this still is a viable option for developing a differential monitoring approach.

(ECPQIM4©)(DMLM©): Kansas Example (KS)
 Figure 8

Program Compliance (PC)
Full Licensing Visit
Comprehensive Instrument (CI)
Health & Safety
Structural Quality
_Eg: Kansas Licensing Rules_

Key Indicators (KI) – Abbreviated Visit
Statistical predictor rules/standards that predict overall compliance with rules or standards.
_Eg: Kansas Key Indicators_

Risk Assessment (RA) – Abbreviated Visit
Weighting of Rules or Standards
Places children at greatest risk of mortality or morbidity if non-compliance found.

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.

Figure 9 depicts the use of both key indicator and risk assessment methodologies with their licensing system but no data interaction with their program quality initiatives. It is proposed that
both methodologies will be used together in future licensing reviews of programs which will constitute their differential monitoring system approach.

**(ECPQIM4©)(DMLM©): Illinois Example (IL)**

**Figure 9**

- **Program Compliance (PC)**
  - Full Licensing Visit
  - Comprehensive Instrument (CI)
  - Health & Safety
  - Structural Quality
  - *Eg: Illinois Licensing Rules*

- **Program Quality (PQ) Initiatives:**
  - Quality Rating & Improvement (QRIS)
  - Professional Development (PD)
  - Early Learning System (ELS)
  - Process Quality

- **Key Indicators (KI) – Abbreviated Visit**
  - Statistical predictor rules/standards that predict overall compliance with rules or standards.
  - *Eg: Illinois Key Indicators*

- **Risk Assessment (RA) – Abbreviated Visit**
  - Weighting of Rules or Standards
  - Places children at greatest risk of mortality or morbidity if non-compliance found.
  - *Eg: Illinois Weighting Consensus*

- **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.

Figure 10 depicts the new aligned differential monitoring system being employed in Head Start. Head Start has a very comprehensive system that employs various aspects from all the components in their system. The Head Start Performance Standards are very comprehensive, CLASS is used as a major process quality measure and both a key indicator (Head Start Key
Indicator – Compliance (HSKI-C)) and risk assessment (Selected Compliance Measures) are utilized in their program monitoring system. The Head Start new Aligned Program Monitoring system comes closest to the comprehensive national model.

(ECPQIM4©)(DMLM©): Head Start Example (HS)

Figure 10

Program Compliance (PC)
- Full Review Visit
- Comprehensive Instrument (CI)
- All Compliance Measures
- Structural Quality
  *Eg: Head Start Performance Standards*

Program Quality (PQ) Initiatives:
- Professional Development (PD)
- Early Learning System (ELS)
- Process Quality
  *Eg: CLASS*

Key Indicators (KI) – Abbreviated Visit
- Statistical predictor rules/standards that predict overall compliance with rules or standards.
  *Eg: Head Start Key Indicators-Compliance*

Risk Assessment (RA) – Abbreviated Visit
- Weighting of Rules or Standards
- Places children at greatest risk of mortality or morbidity if non-compliance found.
  *Eg: Selected Compliance Measures*

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.

In Figure 11 a very different scenario played out in the state of Colorado in which key indicators were developed for their QRIS system rather than for their licensing system. As mentioned earlier, when applying the key indicator methodology to Quality Initiatives one needs to be very
cautious if the data distribution is not exceptionally skewed as is the case with licensing data. Some of the data were sufficiently skewed to be able to be used in generating quality key indicators there were limitations noted.

**(ECPQIM4©)(DMLM©): Colorado Example (CO)**

**Figure 11**

**Program Compliance (PC)**
- Full Licensing Visit
- Comprehensive Instrument (CI)
- Health & Safety
- Structural Quality

**Program Quality (PQ) Initiatives:**
- Quality Rating & Improvement (QRIS)
- Professional Development (PD)
- Early Learning System (ELS)
- Process Quality
  
  *Eg: ECERS*

**Key Indicators (KI) – Abbreviated Visit**
- Statistical predictor rules/standards that predict overall compliance with rules or standards.
  
  *Eg: Colorado Quality Key Indicators*

**Risk Assessment (RA) – Abbreviated Visit**
- Weighting of Rules or Standards
- Places children at greatest risk of mortality or morbidity if non-compliance found.

**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.
Conclusion

This paper presents the latest examples of national and state agencies differential monitoring approaches. It clearly demonstrates that there are many different approaches to developing and implementing differential monitoring. A key research question for the future as more states utilize the different approaches is to study if one approach is better than the next or a combination works better than most. From my 40+ years of experience as a researcher and state policy analyst I would suggest that a more comprehensive approach that employs the full menu of program quality initiatives similar to the Head Start or the NYQI approaches will be most effective.

As mentioned in the introduction of this paper in describing the Comprehensive National Example of the DMLM© Model the following three tables (Tables 1-3) present a Differential Monitoring Scoring Protocol (DMSP©) that can potentially be used to compare states on how in depth their differential monitoring system is. Table 1 describes the DMSP© in narrative terms delineating the various systems that need to be in place in order to get a particular score. A score of 0 means no systems are in place or do not intersect while a score of 10 means that all of the systems are in place and intersect or are linked. Table 2 gives the points assigned to the specific systems that are part of a differential monitoring system. And Table 3 gives the actual points assigned to the state & national examples that have been presented in this paper for New York (NY), Georgia (GA), Head Start (HS), Kansas (KS), Illinois (IL), and Colorado (CO). The total points assigned to the comprehensive model are also provided as a point of context.
There are a couple of important things to note about the DMSP© in Table 2, such as: if Key Indicators (KI) and Risk Assessment (RA) are linked, it negates KI and RA being scored separately. If KI and RA are developed separately, it is very improbable that they will not be linked but that is always a possibility, so it is listed as so. Linking Program Compliance/Licensing (PC) and Program Quality (PQ) Initiatives is a highly desirable event and is assigned a high score (4 points). Linking KI and RA is also considered a highly desirable event and is assigned a high score (4 points).

Table 1: Differential Monitoring Scoring Protocol (DMSP)©

<table>
<thead>
<tr>
<th>Score</th>
<th>Systems Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No systems in place.</td>
</tr>
<tr>
<td>2</td>
<td>KI or RA in place and not linked.</td>
</tr>
<tr>
<td>4</td>
<td>(KI &amp; RA in place but not linked) or (PC + PQ are linked).</td>
</tr>
<tr>
<td>6</td>
<td>(KI &amp; RA in place) &amp; (KI + RA are linked)</td>
</tr>
<tr>
<td>8</td>
<td>(KI &amp; RA in place but not linked) &amp; ((PC + PQ) are linked).</td>
</tr>
<tr>
<td>10</td>
<td>All systems in place and linked.</td>
</tr>
</tbody>
</table>

Table 2: Differential Monitoring Scoring Protocol (DMSP)© Point Assignment

<table>
<thead>
<tr>
<th>Score</th>
<th>Systems Present and Point Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No systems in place.</td>
</tr>
<tr>
<td>2</td>
<td>(KI (1)) &amp; (KI -&gt; DM (1)) or ((RA (1)) &amp; (RA -&gt; DM (1))</td>
</tr>
<tr>
<td>4</td>
<td>(PC + PQ (4)) or (KI (1) &amp; (KI -&gt; DM (1)) &amp; (RA (1) &amp; (RA -&gt; DM (1))</td>
</tr>
<tr>
<td>6</td>
<td>(KI + RA -&gt; DM (4)) &amp; (KI (1)) &amp; (RA (1))</td>
</tr>
<tr>
<td>8</td>
<td>(KI (2) &amp; RA (2)) &amp; (PC + PQ (4)).</td>
</tr>
<tr>
<td>10</td>
<td>(KI + RA -&gt; DM (4)) &amp; (KI (1)) &amp; (RA (1)) &amp; (PC + PQ (4))</td>
</tr>
</tbody>
</table>

KI (Key Indicators); RA (Risk Assessment); PC (Program Compliance/Licensing); PQ (Program Quality Initiatives)
Table 3: DMLM© SCORING PROTOCOL WITH STATE EXAMPLES

<table>
<thead>
<tr>
<th>SYSTEMS (pts)</th>
<th>MODEL</th>
<th>GA</th>
<th>NY</th>
<th>HS</th>
<th>IL</th>
<th>KS</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KI (1)</strong></td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>RA (1)</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>KI + RA -&gt; DM (4)</strong></td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>KI + RA (2)</strong></td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>PC + PQ (4)</strong></td>
<td>4</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>KI -&gt; DM (1)</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>RA -&gt; DM (1)</strong></td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL (10)</strong></td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>10</td>
<td>6</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

GA (Georgia); NY (New York); HS (Head Start); IL (Illinois), KS (Kansas); CO (Colorado)

Notes a, b, c: The arrows going from Key Indicators (KI) and Risk Assessment (RA) to Differential Monitoring (DM) can be configured in the following ways: only KI (Kansas); only RA (don’t have an example of this as of this writing) or a combination of KI and RA (Illinois) but this configuration could mean all of the KI and RA rules which would be more rules than if only KI or RA rules were selected or only those rules that overlap (KI+RA) which would be a much reduced number of rules. Or a different configuration determined by the state agency.
REFERENCES


Key Words: Program Monitoring, Scoring Protocols, Differential Monitoring, Program Quality, Licensing.

Contact Information:

Richard Fiene, Ph.D.
Prevention Research Center
The Pennsylvania State University
drfiene@gmail.com