

Minnesota Child Protection Conference: Connections Matter

SDM Risk Assessment

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What is Structured Decision Making

- Comprehensive case management system
- Structures the critical decision points in the life of a case
- Utilizes research based assessment tools
- Uses an actuarial model for estimating the probability that a critical event will occur
- The SDM Family Risk Assessment estimates the probability of child abuse and neglect occurring in the future



History of SDM in Minnesota

- Seven metro counties began using SDM in 1999
- Additional counties added with the support of DHS
- By 2004 all 87 counties were using SDM in child protection cases within the Social Service Information System



Need for Family Risk Assessment Validation Study

- Minnesota's Family Risk Assessment tool was based on research in Michigan in 1992-1993 and needed to be updated and based on Minnesota population
- Original research did not include significant numbers of Native Americans
- Minnesota's implemented a differential response system subsequent to the use of SDM



IAR Validation Study

- The Institute of Applied Research was contracted to do a validation study of SDM Family Risk Assessment in Minnesota
- IAR found the FRA to be generally predictive and reliable but less effective with Native American and African American families



CRC Validation Study

- Minnesota contracted with the Children's Research Center to complete the recalibration of the SDM FRA tool as recommended by the IAR study.
- Specifically wanted to address improved prediction capacity across all racial and ethnic groups



What is actuarial risk research?

- A simple statistical procedure for estimating the probability that a "critical" event will occur at some future time.
- In the auto insurance industry, the critical event is a car accident involving a driver insured by the agency. Among breast cancer patients, the critical event is recurrence of cancer.
- In this case, the critical event is the likelihood of future child maltreatment.



Prospective Study Sample

Observe Sample Investigations and AR Assessments

18-Month Follow-Up Period:

Observe Sample Case Outcomes*

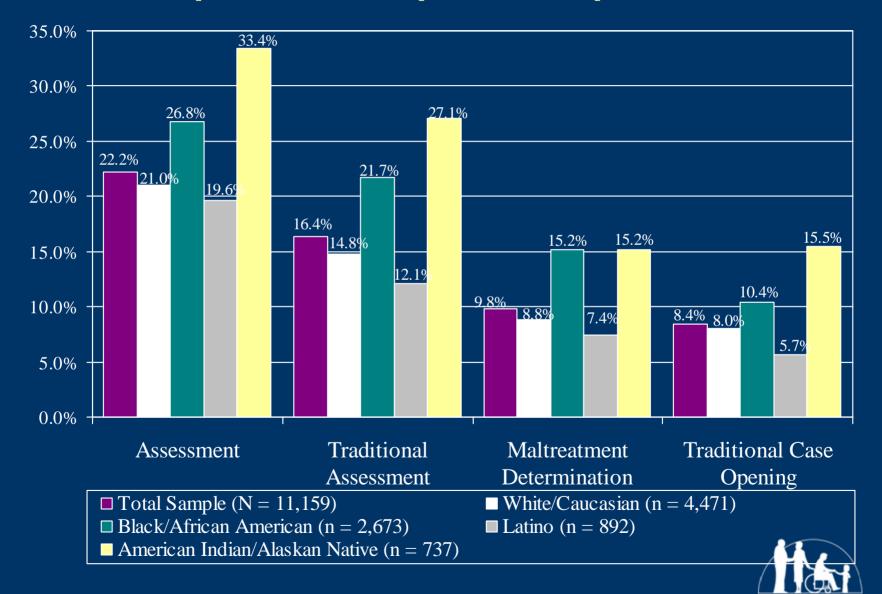
7/2003 or 1/2004 (varied by county) 12/2004

*Outcomes included:
Any assessment
Traditional investigation
Maltreatment determination
Traditional case opening

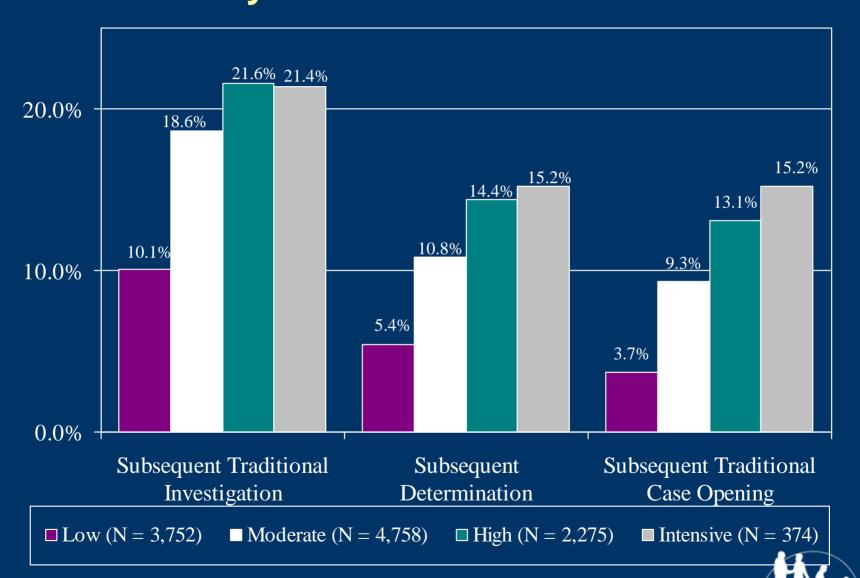


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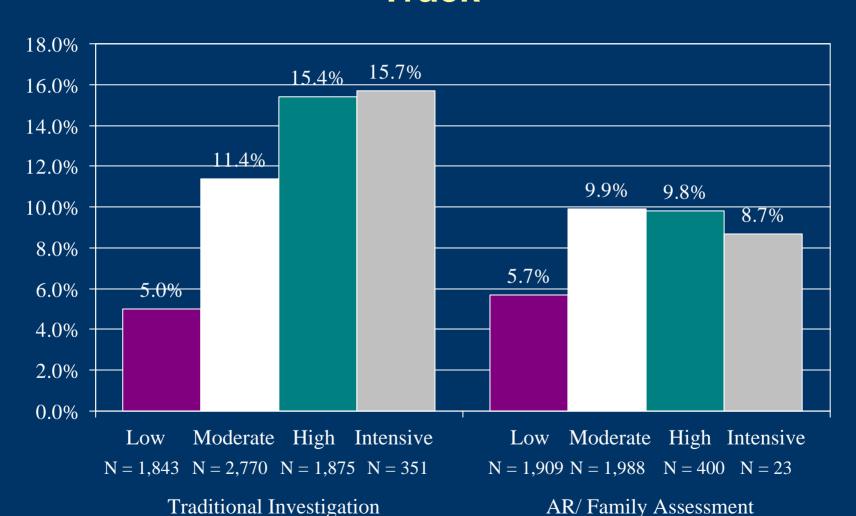
Maltreatment Outcome Rates for Racial/Ethnic Groups with Adequate Sample Size



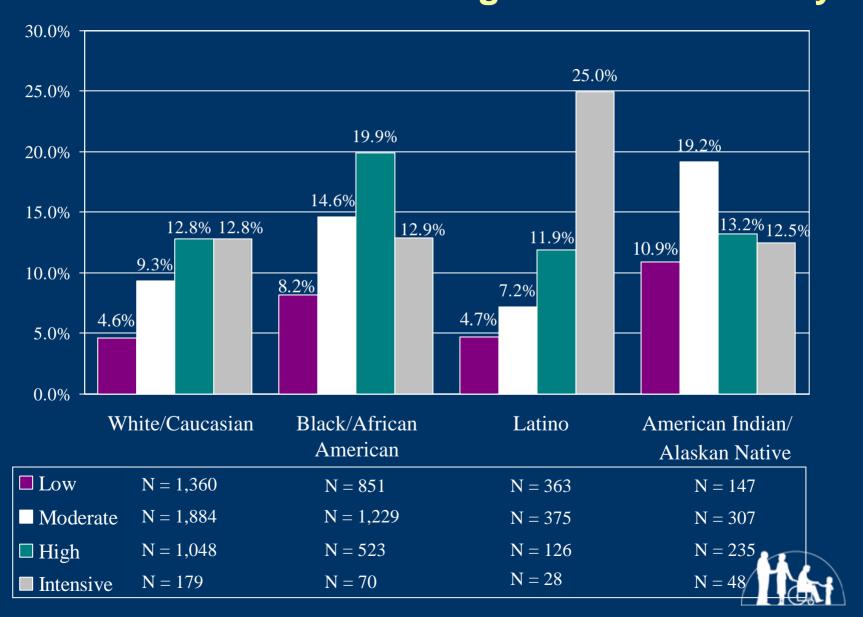
CPS Outcomes During the 18-Month Follow-Up Period by Current Risk Classification



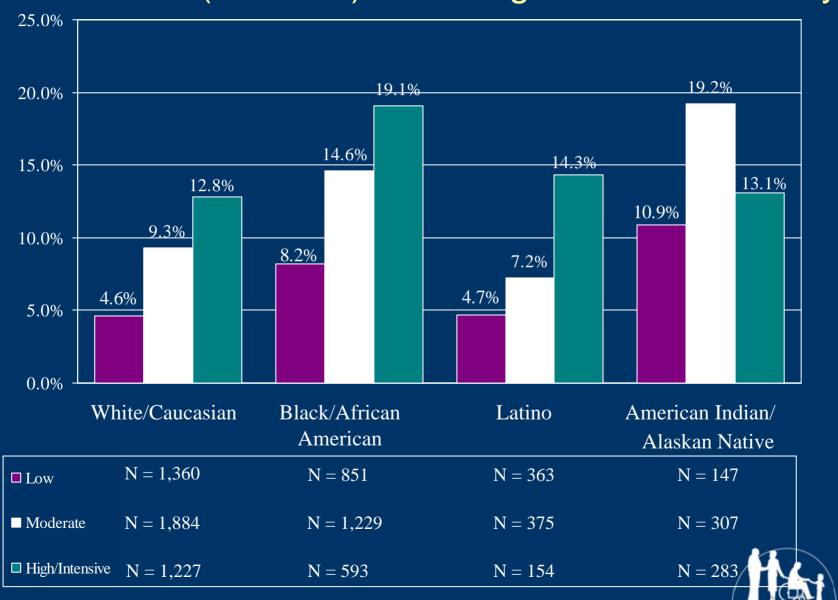
Subsequent Maltreatment Determination by Current Risk Classification for Investigation/Assessment Track



Subsequent Maltreatment Determination by Current Risk Classification for Caregiver Race/Ethnicity



Subsequent Maltreatment Determination by Current Risk Classification (3 Levels) for Caregiver Race/Ethnicity

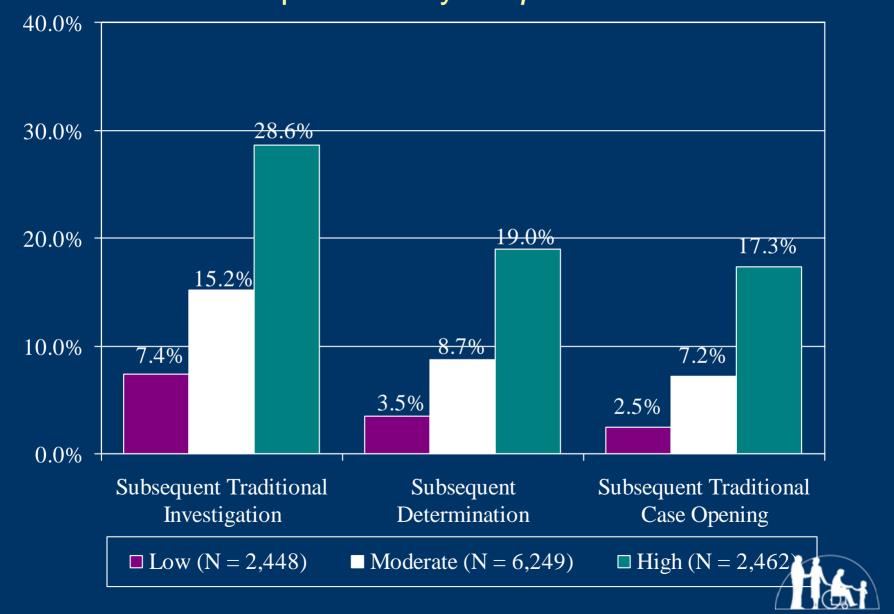


Summary of the Current Risk Assessment's Performance

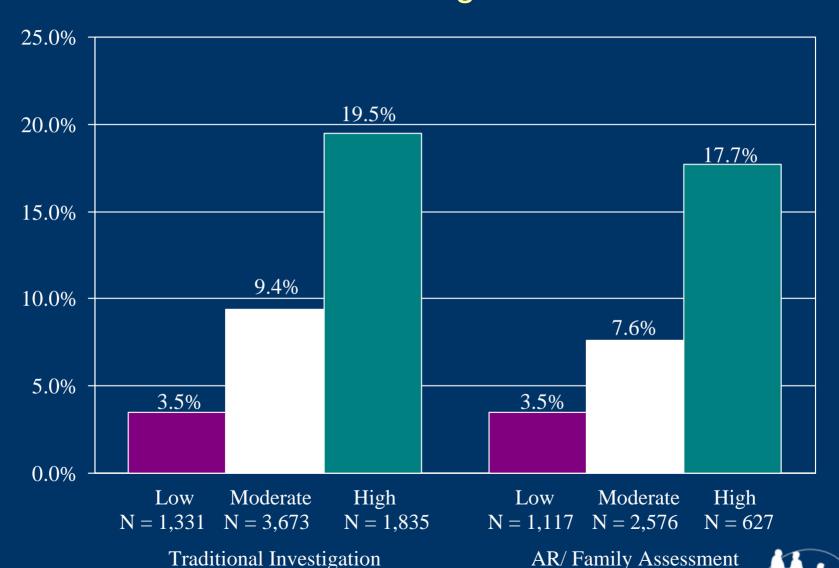
- Distinguished between families classified at low versus higher risk levels.
- Very few intensive risk families.
 - High and intensive risk families had similar outcome rates
- For some subgroups of the sample, the risk assessment also failed to distinguish well between moderate and high risk families.
 - Families assessed using AR methods
 - American Indian/Alaskan Native families
- Current risk assessment is based on research conducted in Michigan in 1992 that observed only families in a determined maltreatment incident.
- An independent analysis was conducted to develop a proposed risk assessment.



CPS Outcomes During the Standardized 18-Month Follow-Up Period by *Proposed* Risk Classification



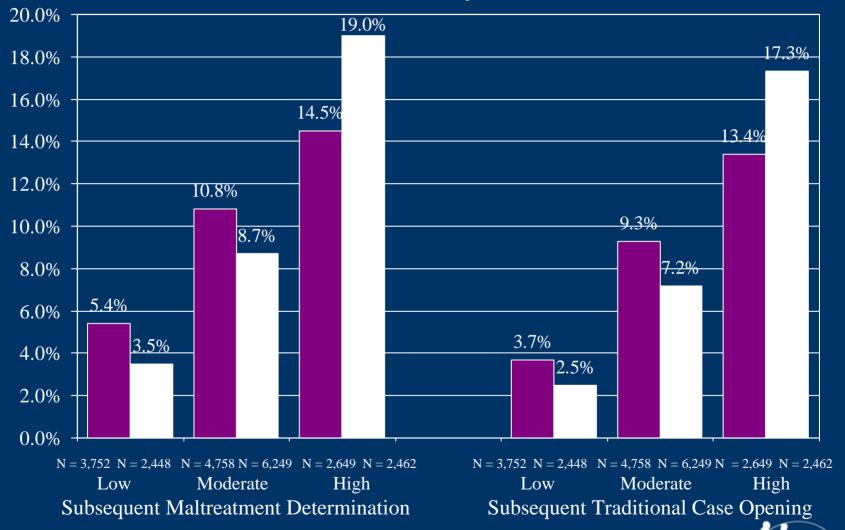
Subsequent Maltreatment Determination by *Proposed* Risk Classification for Investigation/Assessment Track



Subsequent Maltreatment Determination by *Proposed*Risk Classification for Caregiver Race/Ethnicity



Comparing Three-Level Risk Classification Findings by Determination and Traditional Case Opening During the 18-Month Follow-Up Period



Actuarial Risk Assessment Limitations

- Estimates the future probability of child maltreatment among families with similar characteristics. It does not yield infallible predictions for individual families, nor is it a substitute for sound professional judgment.
- Appropriate use requires that workers understand how risk assessment instruments work and receive the training and policy guidance necessary to employ them effectively.
- Workers may override the scored risk assessment classification based on agency policy or discretionary judgment.

Implementing Study Recommendations

- Revised FRA will replace current tool
- State-wide retraining of all social workers using the revised FRA to occur in July, 2007
- New FRA to be made available on SSIS to correspond with retraining
- County supervisors encouraged to use case review to assure quality of decision making



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