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# NATIONAL INSTITUTE OF JUSTICE FINAL REPORT "PROJECT SHIELDS"

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#### I. EXECUTIVE SUMMARY

#### A. Introduction

Law enforcement personnel have been identified as a population at high risk for psychosocial work stress.<sup>1-3</sup> This is an important concern because the consequences of police work stress can adversely impact the delivery of effective law enforcement as well as pose a threat to the safety of police officers, their co-workers, their family and friends, and the general public.<sup>4</sup> In particular, interest has recently been focused on the effect of officers' stress on their spouses (or partners) and families, especially in terms of domestic violence. In response, the Violent Crime Control and Law Enforcement Act of 1994 was promulgated to promote research on police work stress and to identify and evaluate model stress prevention programs. In further recognition of this problem, many police departments have developed stress-reduction programs; however, most of the programs are individual-based and reactive rather than organizational and preventive in nature.

This project was designed to address major deficiencies in the existing literature on police stress including: 1) the need for a well-characterized, psychometrically validated and up-to-date police stress assessment tool; 2) the lack of information on domestic violence in police families, and its relationship, if any, with police stress; and 3) the identification of officer-driven strategies to address police stress and especially police stress-related domestic violence.

To that end, we developed a new police stress questionnaire, which included a new police stress scale (perceived "felt" stress), and administered it to a large sample of

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Baltimore City Police Department sworn law enforcement employees. The data that were collected were then utilized by Particpatory Action Research Teams (PAR) using Total Quality Management (TQM) techniques in order to identify police stress interventions. The PAR process, defined as a "methodology in which researchers and team members collaborate on data-guided problem-solving to meet a desired outcome and to advance scientific knowledge", and encourages employees and management to cooperatively work together on teams and to focus on common problems. <sup>5,6</sup> This process is an effective problem-solving tool because it promotes decision-making among all team members and encourages consensus. Teams work collaboratively with researchers, and all solutions are based upon pertinent data provided by the researchers. This is a powerful and efficient method of developing targeted interventions. <sup>7,9</sup>

The teams then made a series of recommendations that was presented to the commissioner, (at that time, Thomas Fraser) as well as to the senior command leadership. It was also presented to the Fraternal Order of Police leadership. It will be the decision of newly appointed Commissioner Norris whether or not to put any of the intervention strategies into place.

## B. Methodology

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The study was designed to be conducted in a series of four phases to simplify management and ensure that the time frame was adhered to. In Phase #1 of the study, two versions of a police stress questionnaire were developed (one for officers, the other for spouses or partners). In Phase #2, the questionnaires were self-administered to

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approximately 1100 police officers. In Phase #3, the questionnaire data were analyzed in order to assess and characterize police work stress in officers. Also in this phase. retrospective indicator data were collected (e.g., accident, incident, illness, turnover. absenteeism, and compensation data, etc.), in order to give the teams as much background information on stress-related outcomes as possible. The data were then prepared in a simple-to-understand format so that they would be immediately useful to the TQM team members. In Phase #4, PAR/TQM teams were formed. Three teams were formed as follows: one team comprised of both male and female police officers. one of only female officers, and one of police spouses and intimate partners. Each team had the same common goal, "to review stress related data and to identify dataguided interventions, which specifically targeted key stressors." A final fourth team, "the intervention assessment team," included members representing each of the previous teams (combining both officers and spouses). This team analyzed each of the recommended interventions in terms of feasibility, cost-benefit, and acceptability to officers, management, spouses, union representatives, etc. Based on Team 4's final recommendations, the Principal Investigator (P.I.) developed a report of the intervention strategies, which was presented to the senior command as well as to the police union representatives. These recommendations as well as a summary of the findings of the study were presented to the officers themselves in two different formats. First, the P.I. and/or the study coordinator made short presentations at selected districts and presented a summary of the findings. Second, a short summary of the findings was prepared and sent to all officers via the Fraternal Order of Police newsletter.

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#### C. Analyses Plan

Several different types of analyses were conducted and, in fact, continue to be conducted. Given the richness of the large data set, it is not surprising that so many different sets of analyses have been conducted, as summarized below:

1. Prevalence of stress in a sample of police officers, including:

- a. Risk factors for stress,

b. Stress outcomes,

c. Relationship between stress and domestic violence,

d. Coping mechanisms and their impact on the stress process.

2. Comparison of stress, stressors, coping mechanism and stress outcomes in male and female police officers.

3. Stress, stressors, coping mechanism, and stress outcomes in officers older than 50 years of age in comparison with younger officers.

4. Public health implications of police stress.

5. Path analysis of a new police model.

6. Psychometric analysis of a new police stress scale.

7. Validation of a domestic violence attitudes scale with actual self-reports of domestic violence by police officers.

D. Results

1. Response and demographic information

A final total of 1103 questionnaires were returned and completed, a response rate of 68%. The following demographic information on the responders is summarized:

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85% were male, 55% had some college education, 68% were married or living with a partner, 64% were Caucasian, the average age was 36 years, and 35% had a military background.

2. Stressors

The results of our study and the various analyses indicate that the most significant work-related stressors for police officers were as follows: 1) workplace (perceived) discrimination and perception of inequity, 2) organizational rigidity and perceived "unfairness," and 3) repeated exposure to critical incidents. There were significant demographic differences in the reported stressors; for example, women police officers were much more likely to report issues of inequality and harassment based on gender as more stressful than were men.

3. Stress

Most officers reported moderate levels of police stress. No difference in stress levels was noted for gender; that is male and female officers reported similar levels of work stress. Age was also not related to stress, but ethnicity was, with White officers more likely to report stress than their non-White counterparts. Officers with less than 16 years of education reported lower levels of stress than officers with at least some college education. Marital status, job category, tenure, and other demographic characteristics were not significantly associated with police stress.

Officers who reported frequent exposure to various workstressors (namely those listed above) were much more likely to report high levels of perceived workstress ("felt stress") than officers who did not report such exposure. Officers repeatedly exposed to

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events that would be considered "critical events" such as a police funeral, shooting incident or needlestick injury, were nearly nine times more likely to report high levels of workstress. Attending police funerals was the most stressful aspect of all the critical incidents followed by needlesticks and IID investigations.

4. Coping Mechanisms

Officers who relied on cognitive approaches to stress management were less *likely* to report high levels of perceived stress or "felt stress." That is, officers who relied on their own ability to make a plan of action to manage the stress, or who relied on talking with their family, friends, counselors who managed stress through prayer, were much less likely to report high levels of work stress. Officers who relied on active behavioral approaches, such as exercise or hobbies, had less stress-related adverse outcomes, such as anxiety but did not report less stress. Officers who relied on passive behavioral approaches, such as sleeping or watching TV, did not have a reduction in stress, and officers who relied on maladaptive coping mechanisms, such as yelling, drinking, smoking, eating more, having unsafe sex, and gambling, did not report a reduction in stress related to these activities, and in fact were more likely to report adverse health conditions.

# 5. Stress related adverse outcomes

There were a number of significant stress related adverse outcomes. For instance, police stress was related to psychological outcomes, such as anxiety, depression, and somatization. Stress was also related to physical health outcomes, both acute and chronic, including lower back pain, high blood pressure, insomnia, and

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migraines. Finally, stress was significantly related to alcohol use, physical abuse of any sort (e, g, to co-workers, child, etc.) and importantly to domestic violence. Officers who reported high rates of workstress were three times more likely to report perpetuations physical spousal abuse. Altogether, 9% of all respondents (76/857) who had a spouse/partner, reported that they had committed physical spouse/partner abuse. Of interest was the finding that women officers were nearly twice as likely as male officers to report such behavior. Eighteen percent of women officers in the sample [20/109] reported such behavior compared to 7% of male officers [56/748]. Remembering that these were completely anonymous questionnaires, and that the responses were validated with a well defined domestic violence attitudes scale, we are confident of the accuracy of these percentages.

6. Total Quality Management/Particpatory Action Research team results

The teams identified several different approaches to improve the quality of worklife and reduce stress for police officers. To address the relationship between stress and critical incidents, for example attending police funerals, some possible solutions were as follows:

- a. Sponsoring honest and thoughtful discussions related to the reality of the job, led by experienced officers and counselors and programmed into the academy training curriculum.
- b. Conducting a debriefing in the slain officer's district and making the debriefing available to all district commanders who request it for their employees.
- c. Reviewing the entire critical incident debriefing policy and procedures,

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updating and improving them as necessary (at least every 3-5 years).

d. Increasing utilization of the chaplaincy program to address this problem.

To address the issue of perceived lack of support for officers in trouble some possible solutions were as follows:

- a. Providing regular management training for all supervisory personnel, who
- - Having members of the advisory board and the commissioner meet periodically with officers and recent retirees for candid small group discussions on this matter.

c. Clarifying policies on paid/unpaid administrative leave.

To address the problem of lack of advancement, some possible solutions were as follows:

- a. Installing computers at FOP headquarters, providing linkage for distance learning (degree programs), and making them available also to spouses.
- b. Initiating a management leadership and mentorship program.
- c. Re-examining the Department's entire exam and promotion policy and procedures and comparing these tests with those used by other agencies.
- d. Job descriptions for each position in the Department should be published and readily accessible.

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- e. Providing coaches/mentors (e.g., retirees) to help officers prepare for exams, interviews, etc.
- f. For women, minority members, etc., the Department should support mentorship programs and group activities (similar to the Vanguard Association). Mentors should be assigned to individuals interested in management positions. Individuals from these groups who are interested in careers in management and police leadership should meet informally with the Commissioner on a regular basis for advice and support. A women and minority members' management core group should be formed to support more junior women and minority officers.

To address the problem of inequality in the force, some possible solutions were as follows:

- a. Ensuring that the FOP work closely with BPD leadership to address this problem in a collaborative manner.
- b. A high level collaborative team of FOP/Department leadership should examine the status of female police officers and assign this to a high level commission. This should include everything of concern to female officers (e.g., recruitment, training, clothing requirements, etc.) and basically all other policies and procedures that pertain to female police. The overall goal of the commission should be to document existing policies and practices and determine, what, if any, changes are needed to improve the working environment for female police officers.

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To address the problem of alcoholism, some possible solutions were as follows:

- a. The FOP should sponsor an AA group for officers only.
- b. There should be an annual screening for alcohol abuse (at the time of the annual physical).
- c. Officers at the rank of Sergeants and above should receive training on early
- -warning signs so they can help officers before they get into trouble.

To address the problem of spousal abuse in police families, some possible solutions were as follows:

- a. Support and encourage effective communication and partner commitment.
   This promotes stability in the workforce and has been shown to decrease turn-over. This will also help minimize the threat of domestic violence. There are several ways to do this:
  - Send trained spouses to the academy to serve as facilitators on discussions related to how policing affects marriage and the family.
  - Have trained "successful" seasoned police couples serve as mentors to new police couples.
  - Sponsor police couples only "Marriage Encounter" weekends.
  - Sponsor more couples activities and actively encourage spouse participation in social events, parties, picnics, coffee hours, prayer sessions, pre-nuptial training, couples counseling, marriage therapy, communication skills classes, parenting workshops, etc. Make the

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spouses more a part of the police officers' work life.

- Encourage the revitalization of the women's auxiliary group, which could conduct a needs assessment to find out ways to involve partners and strengthen families (e.g., daycare vouchers, child care sharing for vacations, support groups for families with teens, elder care issues,
- - Provide support for non-traditional partnerships and other family members as needed (e.g., for girlfriend/boyfriend, parents, teens, etc.)
  - Provide information to police families via the FOP regarding numerous
     police web sites.
- b. Give officers cell phones or beepers so they can be reached by families at all times.
- c. Limit the amount of overtime officers are allowed to do. Conduct financial planning and finance management for new recruits (mandatory) and then sponsor many diverse financial programs for all officers and families.
- d. Sponsor retirement planning programs and help officers make successful transitions to retirement.
- e. Ensure that BPD policies on spousal abuse are clear and strictly enforced (zero tolerance). The department should provide liaison services so spouses can get the help and services they need (this will encourage them to report such incidences).
- f. Sponsor a 24-hour mental health hot line service (anonymous with the

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encouragement of referrals) for officers in trouble of any sort.

To address the issue of sub-optimal management skills in higher-ranking officers, some possible solutions were as follows:

a. Providing mentors or coaches for all new supervisors (e.g., sergeants).

- b. Evaluating supervisors on an annual basis (use anonymous surveys), and
- managers' competency.

## E. Conclusions and Police Implications

The stressors in policing that were first examined 30 years ago are, in many respects, still with us today- such as the problems related to long work hours, hierarchical and rigid organizational structure, lack of advancement, harassment issues related to a male-dominated workforces, etc. What perhaps has changed is the expectations of both officers and their spouses regarding acceptable working conditions. There is a considerable effort being made to recognize and address negative quality of work life issues that were long thought to be an expected part of police work. The stressors that police officers face today are also different in some respects. For example, there is much more public scrutiny of police departments, with an apparent decreased tolerance for deviations in certain standards of behavior, such as domestic violence in police families. We expect our officers to not only to uphold the same standards that are expected from civilians, but, in some cases, to exceed those standards. At the same time, young people today have more job options. The changing world and U.S. economy, with the increase in technology and service

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industries and the ever increasing aging of the general work force, has made labor shortages a growing reality. The labor shortage will be particularly problematic with the proportion of persons > 65yrs now three times what it was in 1900 and with the 45-64 age group the fastest growing cohort. There have already been several reports of serious recruitment difficulties in many major police departments. Thus, in order to improve the attractiveness of the job, it is imperative that quality of work life issues, including the issue of police stress, be addressed. It is also important that the front line police officer have input into what intervention strategies will be useful. It is almost certain that while each department may share many of the same stressors as other departments throughout the country, there will almost certainly be many stressors that are unique to a particular department. That means that an effective approach will be have to be a tailored one- this is not a case where "one size fits all." It may well be that there are strategies already prepared, such as a critical incident training program or a interpersonal skills-building video, etc., that have already been developed by other agencies, but in order to identify the right solution for a particular problem, it is probably going to be necessary for departments to conduct stress and quality of work life surveys on some scheduled basis. This way, the department leadership can "check the pulse of" the organization, identify growing or continuing problem areas and develop targeted strategies to address the same problems. This will be a necessity for any industry (service-oriented or otherwise) if it is to stay competitive. The most valuable resource for any work organization is the human resource and every effort should be made to provide the best possible work environment for all workers. Police officers should be

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provided with the same level of services that we provide and expect for any other highrisk service industry job. Union officers should increase their focus on the quality of work life issues (in addition to fair pay scales) because this can have a huge impact on the mental and physical health and well-being of officers. A stable and satisfied workforce is much more likely to be an effective one. The cost of hiring and replacing officers has been estimated at 40K-70K. Anything a department can do to strengthen stability in their officers' lives, including their personal lives, will be a benefit to the department. Innovative approaches to assisting officers in maintaining balance in their lives, that have not been carefully examined before, may be valuable to examine at this point in time. Police officers should participate in the decision making process so that their expertise informs both the process and the outcome. It is also important to consider the necessity to have valid scales for measurement. The use of welldesigned, well-defined scales to evaluate stress and stress-related outcomes is important for two reasons: 1) it provides a valid and reliable measure that can be used within across departments and 2) it should provide unbiased responses, so that the data can be used with confidence to guide the development of interventions. Our finding that police stress was significantly associated with domestic violence also points toward the idea of studying the relationship between police stress and hyperaggressive behavior among police in general. Given the significant adverse outcomes related to stress, it is important that we address this problem.

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#### II. PROJECT DESCRIPTION

#### A. Research Questions

- 1. Major Question: What is the relationship between police stress and domestic violence in police families?
- 2. Corollary questions:
- \_\_\_\_\_\_a. What is the extent of domestic violence in police families?
  - b. What are the current stressors that contribute to police stress?
  - c. What are some of the tools that we can use to measure or evaluate domestic violence in police families?
  - d. Are there mediators or moderators that affect the relationship between police stress and domestic violence?
  - e. Can we identify potentially effective interventions that address the risk factors for stress-related domestic violence in police families?

This study was important to conduct because: 1) very little data are available on domestic violence and police families and 2) there is a perception that this is an underappreciated and growing problem. Because of periodic reports of extreme cases of domestic violence in police families, e.g., domestic violence related homicides, there has been an increase in the public perception that this is a growing threat.

## **B. Background Information**

1. Definitions:

In this final report, the following definitions apply: "stressor" refers to some influence that directly or indirectly affects the individual; "perceived stress" is the extent

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to which individuals feel *stressed* (this is difficult to measure directly but can be inferred by measuring a constellation of stress-related markers, such as negative attitudes toward one's job, including dissatisfaction, coupled with various symptoms like sleeping disorders, and behaviors such as tardiness at work); *"cross-over stress"* is the perceived stress that is directly or indirectly related to the perceived stress on one's partner;-*"eoping measures"* are the various strategies that individuals use to handle perceived stressors; and, *"adverse outcomes"* refers to the three major categories of adverse effects: physical, physiological, and behavioral.

2. Police Officer Stress Research:

The number of law enforcement employees at potential risk of psychosocial work stress in the U.S. is large; in 1990, there was a total of 812,000 law enforcement personnel, including 591,000 sworn and 221,000 civilians.<sup>10</sup>

Maladaptive coping responses (e.g., alcohol abuse, hyper-aggressive behavior on and off the job, etc.) as well as adverse stress-related health outcomes (e.g., alcoholism, heart disease, etc.) have been documented in this population.<sup>11,12</sup> It is believed that as much as 25% of U.S. police officers have significant alcohol dependence. <sup>13</sup> Police officers have also been shown to have high suicide rates; in 1980, they were noted to have the third highest suicide rate among 130 occupations.<sup>14</sup> Police workstress is also believed to adversely affect police families; some studies have noted high rates of marital discord in police families.<sup>15-17</sup> It is believed that police work will probably become even more stressful in the future; there are several reasons for this, including the increasing intensity of societal violence, the complexity of the legal

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system, and economic pressures within police departments.<sup>18</sup> Thus, it is important to better understand and prevent this public health problem.<sup>19</sup>

a. Stressors in Law Enforcement

Researchers have noted a relationship between perceived stress and certain personality characteristics. For example, Type A behaviors (extreme competitiveness, aggressiveness, impatience, restlessness, hyper-alertness, explosiveness of speech, tenseness of muscles, etc.) have been correlated with perceived stress.<sup>20</sup> Dispositional tendencies such as hostility, suspiciousness, and low self-esteem may also increase a person's susceptibility to stress.<sup>21</sup> Certain demographic characteristics have also been associated with workstress, among them gender, race, age, sexual orientation, income, and job category.<sup>22,23</sup> Other individual stressors include life events, health status, locus of control, worker-job fit, and career orientation.<sup>24,25</sup>

Some researchers have identified certain law enforcement organizational and management aspects as particularly stressful, especially authoritarianism, militarism, rigid supervision, shift-work, time pressures, work load, and bureaucratic red-tape.<sup>3.26,27</sup>

Perceived stress and health outcomes in African-American and White officers, has been examined by Dr. Leanor Johnson and colleagues. They found that different effects of stress varied by race and gender. Males and Whites were much more prone to projecting burnout symptoms, including feelings of becoming hardened and calloused, than were females and African-Americans. Female and African-American police tended to depend much more on their friends for social support than on institutional sources of support. Stress in Whites and males had a greater impact on

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their marital relationships than vice-versa (e.g., effect of spouse support).

Dr. Johnson and colleagues also examined the relationship between stress and coping 177 police officers matched with their spouses (marital dyads). Four major coping styles were identified: *problem focused*, *emotion focused*, *religiosity*, and *rugged individualism*. Couples tended to share similar coping styles or coping preferences. Most commonly, religiosity and problem-focused mechanisms were shared similarly. Couples that shared the same approach, were much less likely to have marital discord. The highest levels of distress were found in couples where the officer relied on rugged individualism as a coping mechanism.

Gender differences in job burnout in 457 male and 139 female police officers. Both genders reported moderately high degrees of burnout, but females expressed it differently from males. For example, burnout in males was associated with depersonalization of civilians, while females were more likely to report feeling "drained" and "used" by their job. That is, men externalized their burnout, females internalized it.

Surprisingly, few researchers have found certain job-associated factors (e.g., physical danger, dealing with criminals, etc.) to be particularly stressful, with the exception, however, of the death of a co-worker in the line of duty, an event which has been found to be extremely stressful and related to post-traumatic stress syndrome. <sup>28,29</sup> Finally, non-work related stressors, such as family conflicts and child care responsibilities, have also been found to play a role in workstress.<sup>30</sup> Table 1, on the following page, summarizes four major categories of many potential stressors associated with law enforcement.<sup>14,20,27,28,30-36</sup>

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# Table 1. Potential Stressors in Law Enforcement

Age, education, gender, length of service, marital status, race	Personality (Type A personality-competitiveness, aggressiveness, achievement oriented, impatience, restlessness, hyper-alertness, explosiveness, etc.)	
Career orientation (social activist role)	Obsessive worry, self-esteem, social anxiety	
Fear and perception of risk	Other jobs, school, hobbies, etc.	
Health status	Locus of control	
Impulse control	Risk taking and sensation seeking tendencies	
Life events		

# A. Demographic and Individual Associated Stressors

# B. Police Operations (Job & Criminal Justice Associated)- Stressors

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Court failures	Dealing with the criminal justice system	
Dealing with families of victims/perpetrators	Dealing with the media	
Dealing with perpetrators	Dealing with the public	
Death, injury to co-worker or self, threat of harm (hazardous working conditions)	External contacts (courts, lawyers, etc.)	
Investigatory crime	Lack of respect and personal recognition	
Lack of necessary equipment	Lack of resources	
Militarism	Style of supervision (Over-supervision, under- supervision)	
Paperwork	Pay, benefits	
Poor physical environment at work	Promotion (stagnation, over-promotion)	
Responsibilities without authority/autonomy	Shift work	
Technologic change and challenges	Unnecessary bureaucratic paperwork	

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# C. Organizational-Management Associated Stressors

Authoritarianism	Communication-related	
Coordination and cooperation between units	Court-related duties	
Decision-making control	Discrimination/harassment (gender, sexual orientation, race)	
Downsizing impact	Job/task factors (time pressures, work load, work pace)	
Lack of administrative support	Lack of group support (cohesiveness)	

# D. Non-Work stressors: Work-Family Conflicts

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Time constraints (absence from home)	Unpredictable schedules
Family/household responsibilities	Elder care/child care
Social support (social isolation)	

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# b. Coping Mechanisms

There are several well-characterized strategies for coping with workstress. Among law enforcement personnel, several strategies in particular seem to be commonly used. These include emotion-focused coping, such as disengagement (distancing) through depersonalization and cynicism.<sup>37-38</sup> Disengagement, or social withdrawal, is believed to result from feelings of futility when the control of or solution to problems is not within one's own power. This invokes feelings of helplessness and hopelessness. <sup>38-39</sup> Since many of the stressors of police work cannot be solved or alleviated by individuals (i.e., they are organizational in nature), disengagement may result. Some distancing may be necessary in order for police officers to work effectively because it may protect them from some of the more painful aspects of their jobs; however, at its extreme, distancing, sometimes referred to as "burn out," can be very damaging. Other coping measures include activities which are health promoting or calming (e.g., exercise, meditating, deep breathing), while others are passive in nature (e.g., watching television, sleeping). <sup>40</sup> Some coping strategies can be maladaptive (e.g., excessive shopping or gambling) or even self-destructive (e.g., smoking, compulsive eating, drinking alcohol, taking mind-altering drugs, deviant behaviors, and unsafe sex).<sup>41-42</sup> One strategy, which some officers may use and which is recognized to be the most effective strategy in alleviating stress, is the problem-solving or cognitive approach.<sup>43</sup> This includes seeking professional help (counselor, minister, physician); making a plan of action and following through, and consulting with spouse, family and friends. A summary of the major coping strategies may be found in Table 2.4449

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## Table 2. Coping Strategies

1. Cognitive-problem solving and external supports (counseling, family, friends, pastors, etc)

2. Health promoting (exercise, hobbies, meditation)

3. Passive avoidance (watching TV, sleeping)

4. Maladaptive avoidance (excessive shopping, gambling)

5. Destructive avoidance (smoking, drinking, drugs, compulsive eating, unsafe sexual activities)

6. Emotion-focused (depersonalization, authoritarianism, cynicism, aggression, lack of emotions,

blunted affect)

# c. Measures of Workstress in Law Enforcement

Several studies have examined the degree of perceived workstress among police officers and, although few comparative studies have been conducted, it is generally believed that police officers have relatively high stress levels in comparison with other occupations.<sup>1,2,3,27,50-52</sup> Other studies have noted changes in perceptions of stress over time, with new recruits reporting lower levels of stress which gradually increase with tenure on the job.<sup>53</sup>

While various measures have been used to determine perceived stress in this population, there are both methodological and theoretical concerns related to these, including: lack of comparison groups; use of cross-sectional study designs; small number of study subjects; lack of theoretical models or framework; inadequate measures; and perhaps most important and problematic, contradictory definitions of stress. This study was designed to remedy some of these shortcomings by developing

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a theory-driven, highly validated police stress instrument using large numbers of study participants.

d. Measures of Adverse Outcomes

Psychosocial work stress may result in a number of adverse health outcomes usually categorized as psychological, physiological, or behavioral in nature.<sup>54</sup> In addition to both short and long term adverse health effects (e.g., alcoholism, heart disease, somatic complaints), workstress may also have an adverse impact on the organization. Both categories of adverse outcomes are briefly reviewed below.

*Individual*: Acute effects of workstress may be manifested in three major ways: (1) <u>psychological</u>: (anxiety, general apathy, job dissatisfaction, loss of libido, and psychosomatic complaints); (2) <u>physiological</u>: (dry mouth, excessive sweating, headaches, high blood pressure, hyperventilation, increased heart rate, impaired memory and concentration, insomnia, irritable bowel syndrome, muscle pain, palpitations, upset stomach, hormonal disturbances); and (3) <u>behavioral</u>: (aggression, cynicism, depersonalization, irritability, over-reliance on mind altering substances, risk taking behaviors).<sup>14,16,55-57</sup>

Acute individual effects may in turn result in chronic symptomatology and, potentially, in frank illness, as follows: (1) <u>psychological</u>: blunted affect, "burn-out", chronic anxiety, depersonalization, depression (impaired attention span and mental alertness), Post-Traumatic Stress Disorder (PTSD), sexual impotence, and suicide, (2) <u>physiological</u>: chronic back-ache, heart disease, migraines, ulcers, weight gain (and loss); and (3) <u>behavioral</u>: accidents, drug and alcoholism, hyper-aggressiveness and

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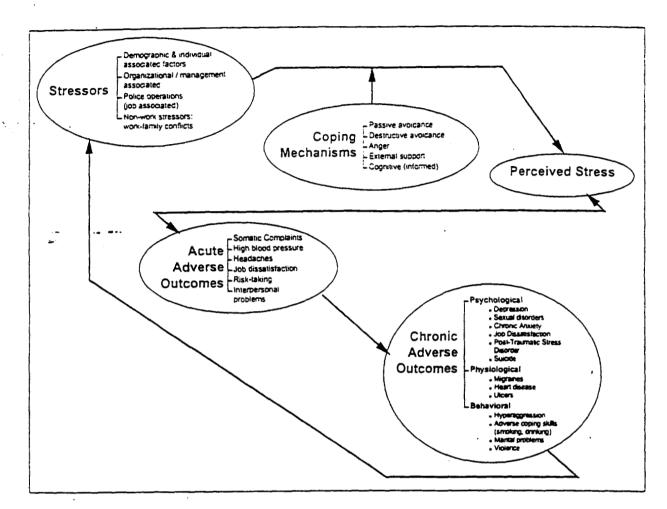
violence (excessive force), injuries (on and off the job), interpersonal problems, marital and family problems.<sup>1,15,30,35,46-53</sup>

It should be noted that many of these adverse outcomes may also frequently be "stressors" (i.e., they are intervening variables acting both as outcomes of stress and as a source of stress). In addition, adverse behavioral outcomes, such as hyperaggressiveness and alcoholism, may be linked to spousal abuse and domestic violence.

*Organizational*: Murphy and Hurrel and others have identified a number of negative ways in which workstress impacts an organization, including: 1) high rates of job dissatisfaction, 2) low morale and productivity, 3) high absenteeism and turnover, 4) deviant behavior, 5) high accident rates, 6) poor public relations, and 7) high incidence of lawsuits <sup>31,32,64,65</sup>.

All of these key variables are shown our Police Stress Model, in Figure 1.

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# Figure 1. Police Stress Model

## 3. Spousal Abuse

It is conservatively estimated that each year approximately 1-3 million women in the U.S. are victims of domestic violence.<sup>65-67</sup> "Domestic violence" is defined in legal terms as acts that cause physical pain or injury or threats of injury. In approximately 28% of these crimes, the victim's spouse or boyfriend is the perpetrator.<sup>66</sup> Five major categories of abuse have been described: *psychological abuse* (threats, intimidation); *emotional abuse* (criticism and belittling, withdrawal, subverting parent-child relationships); *economic abuse* (making or attempting to make the person financially

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dependent, maintaining monetary control); *sexual abuse* (coerced or non-consensual sexual contact, unprotected sex, rape); and *physical abuse* (hitting, slapping, punching, using weapons, stabbing, killing)<sup>68</sup>. The prevalence of 'serious incidents' of spousal abuse in the general population appears to be fairly consistent across ethnic groups, as reported by the National Institute of Justice crime survey. <sup>66</sup> A National Crime Survey is conducted each year by the Department of Justice, and rates of severe violence against women have been shown to be approximately 3.9%. Domestic violence where the male partner is the victim has been estimated at 0.3%.

a. Spousal Abuse Models:

One well-known model, referred to as the family violence model and developed by sociologists Dr. Murray Straus, Dr. Richard Gelles and Dr. Suzanne Steinmetz, proposes that interpersonal domestic violence is different from violence in general because of the special relationship between the perpetrator and the victim and also because it can be much more specific and intense than violence in non-family situations.<sup>69</sup> The model posits that violence in the domestic setting is a means to settle disputes and that everyone (because of the intimacy of the setting) in that same household or family gets involved in the violence. Their model also posits that violence is a learned behavior communicated across generations and that it is perpetuated and provoked by a wide range of environmental and individual factors, (e.g., poverty, substance abuse). Another model, referred to as the "gender politics model" argues that domestic violence is just one more example of the issue of male control, which extends from dating through parenting and marriage and into the work setting.<sup>70,71</sup> In

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this model, violence is both seen as an option to be taken when males are trying to control or limit female independence or when women are seen as failing to meet their responsibilities. There is a complex set of dynamics that can encompass child abuse, elder abuse, even pet abuse, all related to control issues.

b. Risk factors for Domestic Violence

Risk-factors for spousal abuse have been identified and usually are referred to as "vulnerability factors", that is, these factors do not in and of themselves lead to domestic violence but they may predispose one, especially given interpersonal dynamics and particular circumstances.<sup>72</sup> Studies have shown that the assailants are more likely to have a history of drinking alcoholic beverages and, to have attitudes leaning towards approval of violence. While occupational class was not significantly related to spousal abuse, blue-collar status appears to have the greatest prevalence when other factors, such as drinking and positive attitudes towards violence are present. However, when examining rates of abuse, they are similar across sociodemographic and income levels: 10% of middle-income women report abuse compared to 11% of women from low-income families.<sup>73</sup> Age is inversely related to acts of violence, and acts of domestic violence are more common among couples under 30, but age in and of itself does not differential if you examine rates of hospitalized trauma victims of domestic violence.<sup>70</sup> Teens and the elderly may have a greater risk of having their battery misidentified in a health care setting as child abuse or elder abuse. Marital status is a risk factor, and single, separated, and divorced women in comparison to married women are more likely to experience assault by their domestic partner.<sup>74</sup> A

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survey conducted in Texas in 1983 found that 25% of all of the abused women were divorced or had separated from their husbands or live-in partners, and 63% of women who had in their lifetimes ever experienced physical abuse had similar histories. Therefore, many advocates for women feel that inadequate protective orders may lead to an increased risk when a women actually tries to leave an abusive situation, with separated women the most vulnerable followed by divorced women. Our recent case control study reports of police officers' domestic violence found that male officers were more likely to be reported by ex-girlfriends, girlfriends, ex-wives, and wives in that orders, whereas, among female officers, the order was ex-girlfriends, girlfriends, and husbands. Violence in couples appears to be more common when the couples are more socially isolated; however, it is hard to know if the isolation occurs before or after the abuse starts. We do know that pregnancy is a time that increase risk among abused women. Typically battering may increase during pregnancy, and victims are significantly more likely to have a miscarriage or an abortion. Twenty-eight percent of the abused women studied in Texas were found to be physically abused during pregnancy.<sup>74</sup> And in ob-gyn practices, it has been estimated that approximately 25% of all patients are abused during their pregnancy.<sup>75</sup> Violence in ones' family of origin apparently increases the propensity to commit domestic violence. Several surveys have found an interesting correlation between a woman's history of child abuse and current domestic violence.<sup>76</sup> Therefore, child abuse may increase a woman's vulnerability to be abused. Alcohol has been shown to be an important correlate of wife abuse, but it is not usually an immediate antecedent of physical violence. This

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relationship is not entirely clear, although there does seem to be a relationship between binge drinking on the part of the perpetrator and history of assault. Studies have estimated that perhaps as many as 15-20% of all couples experience domestic violence, with frequency ranging from once a week to several times a year. It is also believed that as many as a quarter of all abused women suffer "serial victimization" with sexual assault frequently a part of the physical assault.

c. Police Officers and Domestic Violence

Whether you subscribe to these or any other theory of domestic violence, there are three compelling reasons why police domestic violence is particularly problematic. These are: 1) police officers have access to lethal weapons, 2) they are trained to control and dominant situations, and 3) at the same time, they need to enforce the law with respect to domestic violence in the community setting. Police domestic violence is an almost entirely unstudied phenomenon, and support for studies of this nature has been limited, partly because of the data collection barriers; and also partly due to the lack of valid information. This has led to barriers to our serious understanding, both full extent and the nature of the problem. Officers are reluctant to report (even on confidential questionnaires) about their abusive behaviors, since this criminal behavior might put their jobs and, therefore, their livelihoods at risk. The other problem is that, even with anonymous surveys, these are difficult questions to ask, and there are unfortunately few surrogate measures of domestic violence. The existing incident reports of domestic violence withing police departments, usually are filed in the Internal Investigative Divisions. These reports are naturally extremely closely held and difficult

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to access, even for research purposes. It is believed that many of the cases that are reported to IID do not move forward. We have information from a case control study we recently conducted of IID records collected by a large urban police force that over 80% of the IID reported cases are dropped for lack of corroborating evidence. We know this to be especially relevant because a recent Canadian study found that police officers demonstrated reluctance to enforce protective court orders; especially civil restraining orders.<sup>77</sup> The officers also were found to be uninformed about the nature of court orders in general, and police officers were noted to be more likely to believe that domestic violence was a civil crime rather than a criminal offense. If a woman was intoxicated or there was evidence that she had invited the man into her home, the police officers in that study were found to be unlikely to arrest the offending partner. There is concern that this is a much more widespread problem then we currently have evidence for. To help address this sparsity of information, a cross-sectional epidemiological survey was conducted which is described below.

# III. PROJECT METHODOLOGY

A. Specific Aims:

- Aim #1) To determine the prevalence, correlates, and consequences (outcomes) of workstress in sworn law enforcement personnel.
- Aim #2) To quantify the independent and joint effects of factors (stressors) associated with workstress.
- Aim #3) To determine the relationship, if any, between work stress in police officers and spousal abuse in police families.

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Aim #4) To test a new police stress theoretical model.

Aim #5) To identify cost-effective stress prevention and stress reduction interventions for both officers and spouses using a TQM approach.

#### B. Design Overview

The study was conducted in 1997-1999. It was completed in the fall of 1999. The study was a collaboration between the FOP (Baltimore chapter), the Baltimore Police Department, and the research team from the Johns Hopkins School of Public Health. The collaboration was extensive and covered all phases of the study, from the qualitative to final TQM activities. The study involved a sample of more than 2500 fulltime sworn officers who were in attendance during the morning and/or evening roll calls at each of the districts. The study was guides by a new study model, which was an adaptation of the NIOSH workstress process model.

Major Constructs		Sample Item Subjects
1. Stressors	•	Job & Criminal Justice Related Factors
		Demographic and individual (e.g., age, ethnicity, region, marital status, role
		identity, locus of control, type A personality, impulse control, risk taking
		traits)
	•	Job & Criminal Justice Related Factors (e.g., court systems, court dates,
		dealing with perpetrators, shift work, supervision, supervisory duties, pay,
		benefits, job task factors, work load, etc.),
	•	Organizational/Management Factors (e.g., militaristic, authoritarian,
		discrimination, upward & downward communication, decision making, etc.)
	•	Non-Work Related (e.g., childcare, elder care, finances, etc.)

# Table 3. Study Constructs

<sup>31</sup> 

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ceived •	Feeling physically and emotionally depleted
nt) Stress	<ul> <li>Feeling moody, irritable or impatient over small problems</li> </ul>
•	Feeling negative, futile or depressed about work
bing •	Cognitive problem solving (e.g., counseling, pastors, family support)
•	<ul> <li>Health promoting (e.g., exercise, hobbies, meditation, breathing)</li> </ul>
•	Passive avoidance (e.g., watching excessive television, sleeping too
	much)
•	Maladaptive avoidance (e.g., shopping, gambling)
•	<ul> <li>Emotion focused (e.g., depersonalization, blunted affect, rugged</li> </ul>
	individualism)
•	<ul> <li>Destructive avoidance (e.g., smoking, drinking, drugs, compulsive eating,</li> </ul>
	unsafe sex)
lth •	Psychological (e.g., anxiety, depression, apathy, job dissatisfaction, sexual
utcomes	problems, somatic complaints, sleep disturbances, blunted affect, burn-
	out, PTSD, depersonalization, suicidal tendencies)
	<ul> <li>Physiological (e.g., fertility problems, dry mouth, excessive sweating,</li> </ul>
	headaches, high blood pressure, hyperventilation, increased heart rate,
	irritable bowel, muscle pains, palpitations, hormonal disturbances,
	migraine, chronic back ache, ulcers)
•	<ul> <li>Behavioral (e.g., aggression, cynicism, risk taking, accidents, drug and</li> </ul>
	alcohol abuse, marital and family problems, interpersonal problems at
	work)
• • • •	<ul> <li>Health promoting (e.g., exercise, hobbies, meditation, breathing)</li> <li>Passive avoidance (e.g., watching excessive television, sleeping too much)</li> <li>Maladaptive avoidance (e.g., shopping, gambling)</li> <li>Emotion focused (e.g., depersonalization, blunted affect, rugged individualism)</li> <li>Destructive avoidance (e.g., smoking, drinking, drugs, compulsive eatin unsafe sex)</li> <li>Psychological (e.g., anxiety, depression, apathy, job dissatisfaction, sex problems, somatic complaints, sleep disturbances, blunted affect, burnout, PTSD, depersonalization, suicidal tendencies)</li> <li>Physiological (e.g., fertility problems, dry mouth, excessive sweating, headaches, high blood pressure, hyperventilation, increased heart rate, irritable bowel, muscle pains, palpitations, hormonal disturbances, migraine, chronic back ache, ulcers)</li> <li>Behavioral (e.g., aggression, cynicism, risk taking, accidents, drug and alcohol abuse, marital and family problems, interpersonal problems at</li> </ul>

Study participants were recruited from the Baltimore Police Department, located in Baltimore, Maryland. The department provided law enforcement services at the time to a population of approximately 786,014 Baltimore City residents. Geographically, the department serves nine different precincts and covers a total of nearly 80 square miles. The area it serves is primarily urban and inner city, and Baltimore is considered a high-risk city, with the fourteenth highest crime rate in the country. In 1993, there were 998

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violent crimes per 100,000 Baltimore city residents, including 127 murders, 440 forcible rapes, and 506 aggravated assaults per 100,000 residents.

In 1995, the total crime index for Baltimore was 94,935, including 323 murders, 683 rapes, 9,214 aggravated assaults, and 11,355 robberies. This represents a 30% increase over 1985 statistics.

The department was headed at the time by Commissioner Thomas Frazier, who was appointed to the position in 1994. Since he began his tenure, a number of important changes were made with respect to the functioning of the department, including community-oriented policing (first initiated in 1993).

## C. Study population

As of March, 1996, there were 3,061 sworn employees in the Baltimore Police Department, including 2,636 males (86%) and 425 females (14%). The majority of the force are White males (58%), followed by African-American males (26%). In all, minority personnel comprised 40% of the force. In addition, there were 595 civilian personnel who served in a variety of non-enforcement jobs (clerical, administrative, technical, etc). Altogether, there was a total of 3,656 employees in the Baltimore Police Department. They either worked in one of the nine precincts or at headquarters in a total of 14 distinct police department buildings located throughout the city. Most sworn employees were officers (n=3,046), followed by sergeants (n=327), and lieutenants (n=101). There were 7 captains, 27 directors, 5 chiefs, and 1 commissioner. Most sworn employees were either high school graduates (n=1,155, 32%) or had some college education (n=1,460, 48%). There were 470 sworn employees with bachelor

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degrees (32%), and several personnel have graduate or law degrees (n=67). New recruits are trained for nine months at the police academy and each year there are about 80 new recruits entering the training program.

D. Study Sample

1. Sampling Strategy

The sampling strategy involved: (1) obtaining the number of sworn employees at each precinct at each shift, (2) attending one or two roll calls for each shift at each precinct (N=9) to obtain a convenience sample of volunteers, and (3) distributing questionnaires to all officers volunteering to complete the questionnaire (minimum 1000 officers).

2. Power Calculations

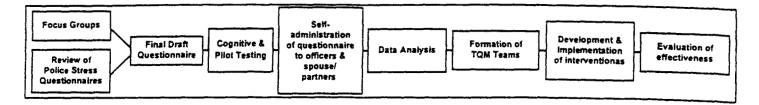
The sample obtained exceeded our sample size requirements as predetermined by power calculations.

## E. Study Design

1. Introduction

The study was designed in four phases over the course of 18 months (which in actuality took about 32-34 months). The study was designed to evaluate workstress in police officers in order to provide TQM teams with sufficient pertinent information so they could make informed stress reduction and prevention recommendations. The work plan is shown in graphic form in **Figure 2** shown below.

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### Figure 2. Study Design Overview

Table 4, below, presents an overview of the entire study's four phases.

### Table 4. Study Overview

PHASE 1	PHASE 2	PHASE 3	PHASE 4
Months 1-5	Months 5-9	Months 9-12	Months 12-16
Questionnaire	Administration of	Analysis of	TQM Phase
Development	Questionnaire	Questionnaire	
<ul> <li>focus groups</li> <li>review of existing police stress questionnaires and other related study instruments</li> <li>preparation of draft questionnaire and psychometric analysis</li> <li>cognitive testing of draft questionnaire</li> <li>pilot testing of questionnaire</li> </ul>	<ul> <li>administration of questionnaire to police officers and spouses</li> <li>data collection and management</li> </ul>	<ul> <li>analysis of questionnair e data</li> <li>collection and evaluation of retrospective indicator data</li> <li>data summaries prepared for TQM/PAR teams</li> </ul>	<ul> <li>formation of TQM teams</li> <li>recommendations</li> </ul>

In reality, except for phases 1 and 2, al the other phases took at least twice as

long to complete, with the greatest amount of time needed for the analyses.

2. Study Support

Support for the study was provided in several important ways. First, letters of

cooperation were received from the major study subcontractors; Johns Hopkins

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University, School of Public Health; the Baltimore Police Department; the Fraternal Order of Police; the Vanguard Justice Society; and the study consultants. Second, a high-level Study Advisory Board was formed. This board served to advise study investigators on all aspects of the study, including methods of recruitment and questionnaire development. Key individuals served on this Board, including Dr. Robyn Gershon, the subcontracted principal investigator, representatives from the senior management of the Baltimore Police Department, the Baltimore Police Department Human Resources Bureau, the Fraternal Order of Police, the Vanguard Justice Society, the Psychology Consultant Associates, the Johns Hopkins University School of Public Health public relations specialist, and others. This Board was instrumental in the success of the study. Third, several experienced police officers served as consultants to the study including a 25-year veteran of the force, who worked on the study as a liaison with the police force. She accompanied the study investigators to each precinct to help distribute questionnaires. Fourth, the study's subcontracted principal investigator and study coordinator, accompanied by police officer consultants, personally visited each of the department's precincts and met with as many police officers as possible in order to introduce themselves and the study.

These steps were taken because we recognized that the success of the study was dependent upon the full cooperation of the police officers.

Phase 1 (Questionnaire Development)

A five-page questionnaire was developed in order to assess the four major constructs and meet the specific aims of the study. The questionnaires were aimed at

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a 10th grade reading level and took about 20 minutes to complete. The questionnaire was based, whenever possible, on previous study questionnaires and well-defined scales. In addition, two procedures were used to generate qualitative data and contribute to the overall instrument content; these were: focus group sessions and cognitive testing. Each of these procedures is briefly described below.

- a. Review of existing instruments and measures

Several police stress questionnaires and scales were developed previously; these were reviewed for their usefulness on this study. These included the Johnson-Nieva Police Work-Home Stress Questionnaire, the Cooper/Williams Occupational Stress Indicator Scale, the Perceived Quality of Life Scale, the Violent Police Stressor Scale, and others <sup>27,29,38,52,54</sup>. Whenever possible, pre-existing and well-characterized valid and reliable measures were used. In addition, the study team had developed several instruments for previous related studies on workstress, and these had been psychometrically analyzed and refined, and wherever feasible, scales from these instruments were used. We recognized that certain variables (e.g.,

hyperagressiveness, spousal assault, cross-over stress, etc.) needed additional clarification and refinement.

b. Focus group sessions

Focus groups were held in order to learn about the study population, especially with respect to their experiences and perceptions related to cross-over stress and the relationship between workstress and aggressive behaviors on and off the job. These

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and many other topics were considered in order to gain insights into the Baltimore City Police Department personnel. Two focus groups sessions were held with only sworn personnel, and two with only spouse/partners. In addition, two sessions were held with both officers and spouses (non-related). Finally, one session was held with members of Baltimore City Police Department spousal abuse support group. Thus, a total of seven focus group sessions were held.

c. Cognitive interviews

This technique was used to evaluate draft survey questionnaires by performing intensive interviews of volunteers, including the "talk aloud" method. For this phase of development, six volunteers were interviewed (three officers and three spouses). These interviews focused on the cognitive processes that participants use when answering the survey questions. Understanding the nature of the response process helped us to redesign the questions, so that survey questions were clear, thus allowing for precise interpretation of the questions, thereby leading to more accurate responses. Volunteers for both focus groups and cognitive interviews were recruited by announcements in the employee newsletters.

d. Preparation of study instrument

Working drafts of the questionnaires were prepared and refined using qualitative data from the focus groups and cognitive testing procedures. The final survey questionnaire included items on the four major study constructs: *stressors, coping mechanisms, perceived stress, and adverse outcomes.* 

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Phase 2 (Administration of the Survey Questionnaires)

a. Overview

All procedures involving study volunteers (e.g., focus groups, cognitive testing, and questionnaire administration) were reviewed and approved by the Johns Hopkins University School of Public Health Committee on Human Volunteers. This maintains the highest-possible standards for the protection of study volunteers.

b. Questionnaire distribution

#### Officers

The questionnaires was self-administered to Baltimore City Police Department Police officers as follows:

- At each of the nine precincts, the study coordinator and/or the study principal investigator attended roll-call accompanied by a union representative (police coordinator). The roll calls for one to two shifts were attended. Additionally, the PI attended meetings that were regularly scheduled, such as weekly meetings for homicide, or violent crimes or canine patrol.
- The principal investigator and study coordinator were introduced and then a brief overview of the study was presented including the risks and benefits of participation. The voluntary nature of the study and requests for voluntary participation were made. Refreshments were served at all roll calls (bagels or cookies).
   Questionnaires were handed out to all sworn precinct employees. These questionnaires had no coding information on them and no identifiers of any sort.
- The employees spent on average 15-20 minutes to complete the questionnaires.

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Anyone who had to leave before they had completed the questionnaire was provided with a pre-addressed, pre-stamped return envelope in order to mail back their questionnaires to the study office. All other questionnaires were collected in a brown envelope and sealed before being removed by the researchers from the precinct station.

 All completed questionnaires were stored in the study office where they were kept under lock and key.

The response rate was determined by calculating the number returned by each precinct compared with the average number of sworn employees at each precinct on the days of our visits (all three shifts).

c. Questionnaire data collection and management

Data was collected from the completed questionnaires as follows:

- Each questionnaire was reviewed for completeness and legibility.
- Each questionnaire was then assigned a consecutive study number.
- The responses were entered directly onto a database on the Johns Hopkins personal computer network.
- Backup copies of the data were (and are) maintained on computer, on disk and on tape.
- The original questionnaires and diskettes were all kept under lock and key in the study office. At the conclusion of all analyses from the study, all original records.

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computer files, and questionnaires will be destroyed.

### PHASE 3 (ANALYSIS OF DATA)

After checks for reliability and validity of responses and other data editing procedures were completed, we performed an array of various descriptive statistics (e.g., frequencies, histograms, and measures of central tendency and dispersion), and graphical techniques in order to characterize the distribution of variables, starting at the most refined level of measurements. This strategy provided us with familiarity with the data and allowed us to determine if the data met the assumptions ons required by the intended statistical testing procedures. Factor analysis was applied to all new scales. and all scales underwent correlation procedures. Overall levels of perceived workstress (and cross-over stress) were determined (Specific Aim #1) for all respondents. Stressors and coping strategies were identified and characterized, and adverse outcomes in officers were measured (Specific Aim #2) by cross-classifying independent variables with the outcome variable (perceived stress) appropriate to the level of measurement. The relationship between adverse outcome (including spousal abuse) and perceived stress was also determined (Specific Aim #3). In addition, we cross-classified independent variables with the outcome variables to understand how these variables interrelated. Procedures appropriate to this goal included contingency tables and two sample t-tests. Based upon these preliminary analyses, we developed a parsimonious model for workstress risk using logistic regression. Multiple regression and path analysis were used to allow for the controlled analysis of the relationships between the four major constructs. All models were tested with variance-covariance

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matrices. We used logistic regression because it allowed us to analyze the joint effects of a set of independent variables (e.g., stressors) on the probability of dependent variables (e.g., perceived stress). Structural equation analytic techniques are in the process of being used in order to determine the relationship of the theoretical model constructs (path analysis) (**Specific Aim #4**). Data summaries were prepared in graphical and tabular form for use by the TQM teams (**Specific Aim #5**)

### PHASE 4 (TQM PROCESS)

a. Overview

A total of three TQM intervention development teams were formed. These teams worked on the common goal "to identify police stress reduction and prevention strategies." Their results were forwarded to one additional team "the intervention assessment teams", and their goal was "to determine the cost-effectiveness, feasibility, and acceptability of the recommended interventions." The team process we followed is briefly described below.

b. TQM team membership recruitment

A total of six members served on each of three teams: law enforcement personnel will serve on three teams and law enforcement spouses will serve on three other teams. In addition, one other team was formed to conduct intervention assessments, and this also consisted of six members each with representation from each of the previous three teams; both officers and spouses served on this final assessment team. Volunteers for participation on the TQM teams were recruited using a variety of techniques as follows:

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1. Officers were recruited by informational flyers posted in each of the 14 Baltimore Police Department buildings.

2. Notices were placed in the Fraternal Order of Police newsletter.

3. Spouses were recruited through announcements n the FOP newsletter.

4. Management and supervisors were recruited by sending flyers to police

headquarters and requesting that they forward them to all managers. All flyers had the study office phone number listed so that potential recruits can call.

5. All potential team members were interviewed by phone by the principal investigator to ensure that they understood the purpose and function of the team and to ensure that they could commit to the entire schedule of meetings.

6. All team members received a small honorarium for their efforts (meals were served at all meetings).

c. Intervention Development Process

The teams followed the team format as detailed in the "Joiner Method Handbook".<sup>74</sup> This handbook operationalizes Demming's quality concepts, including problem-solving through continuous improvement and continuous feedback.

1. Each team was guided by an experienced team facilitator who was present at each meeting along with the principal investigator and one or two other study staff members.

2. Each of the three teams consisted of six to eight members. The spouse teams consisted of six spouses (or partners).

3. Each team chose their own team leader.

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4. Each team met for two and one-half hours each week for a total of three weeks. Each team meeting covered two sessions so that all the material was covered. Police teams met at pre-arranged times so as not to interfere with officers' scheduled work rotations. Dinner was served at each meeting.
5. Each team member received (a) workbook on the TQM methodology, (b) a packet of baseline data (both indicator and survey data), and (c) a Team Workbook. The first team meeting was devoted to team building exercises and a discussion of TQM methods. At each meeting, teams reassessed their progress towards their goals.

Meetings were held at the Fraternal Order of Police headquarters.

7. Each team prepared recommendations in both written and graphical formats. These were presented to senior Police Department administration, the Advisory board, members of the "Intervention Assessment Teams," and the study investigators and consultants.

d. TQM Intervention Assessment Team Process

One Intervention Assessment team took all of the recommendations of the previous teams and determined which of these could actually be recommended for implementation. This team was guided by the TQM process. The Intervention Assessment team was responsible for determining the cost effectiveness of the interventions, the feasibility of implementations, and the acceptability to both officers and management (and spouses) (Specific Aim #6). This team was charged with conducting informal cost effectiveness estimates.

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Given that the average cost per year for psychological services for the Baltimore Police Department is \$150,000, it is likely that the cost of most interventions would be cost effective if implemented, and the overall net cost to the police department would be low.

e. Selection Bias

\_\_\_\_\_ Since we only sampled law enforcement personnel from one police department, our results may not be generalizable to all police forces, especially those in non-urban settings. Nevertheless, this study expands previous work by generating information on urban-based enforcement personnel in several important ways; 1) data were collected, from officers from all ranks so comparison by job category and rank were made. Also, analyses were directed at determinants using relative rather than absolute measures, thereby enhancing generalizations of observed associations.

f. Non-Responder Bias

Non-responder bias would have been a problem if a large number of employees had failed to complete and return the survey. Fortunately, we had an excellent response.

g. Cross-Sectional Design

This design precludes the determination of causality at this point in time; therefore, only associations can be determined. However, the cross-sectional design is the most efficient design to glean information in a timely manner.

h. Validity of Self-Reports

Since workers were asked to provide self-reports on their perception of stress

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and their stress outcomes, these responses may not be accurate because the respondents may have wanted to provide socially desirable responses. This is a concern in most studies that seek to measure sensitive issues and non-normative behaviors. However, the anonymous nature of the study may have helped to mitigate this effect. Internal validity and cross-checking of responses showed that this problem was probably minimal. Also the spouse abuse questions were validated by the abuse attitudes scale. Recall bias should also not be a serious problem as we will be asking respondents to recall events that occurred within the previous six months.

i. Survival Bias

Workers who quit, retired, or died because of their experiences with stress were not represented. Thus our results may under-represent these "exposed" workers and lead to inaccurate rates of stress outcomes. This is difficult to control for a study of this nature.

### F. Dissemination of Data

a. Intramural Dissemination

All internal communications was handled by the Baltimore Police Department and was pre-approved by their legal and public information departments, both of which were represented on our advisory board. Press conferences were approved jointly between Johns Hopkins University and the Baltimore Police Department offices of public affairs.

### b. Extramural Dissemination

In order to inform the law enforcement community, several approaches are

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needed. All extramural information will be pre-reviewed by senior Baltimore Police Department administration as a courtesy. Using a variety of media (e.g., print, video, computer), we hope to make two tangible products available: (1) a synopsis of study results including the new stress scale and (2) detailed direction on how to follow the TQM methodology to develop stress-prevention recommendations. We hope to collaborate with our agency partners in preparing these materials for the law enforcement community. In addition, articles will be written and submitted to journals for publication (e.g., Journal of Applied Psychology, Journal of Family Psychology, Journal of Occupational Health Psychology, Work and Stress, American Journal of Public Health), including law enforcement journals (Journal of Police Science, Criminal Justice and Behavior, Journal of Criminal Justice). Articles will be prepared for the popular press (Police Chief, etc.) Study investigators have presented research findings at a variety of conferences intended to reach the target audience (NIJ Symposia and other national conferences such as the American Public Health Association Conference).

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# QUESTIONNAIRE

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## JHU Project SHIELDS Questionnaire September 1998

Thank you for taking the time to fill out this questionnaire. Since this questionnaire is completely anonymous, please DO NOT write your name or any identifying marks anywhere on these pages.

)

(1)	What is your gender?	(2) Year of birth: 19
(3)	What ethnic group do you belong      to?	an-American 🔲² Caucasian 🛄³ Hispanic 🛄₄ Othe
(4)	Highest level of education completed:	□ 2 Some College □ 3 College □ 4 Graduate Schoo
(5)	How many years have you been a sworn emplo Department (BPD)?	
(6)	What is your current rank?	
	I Officer TraineeI A DetI 2 OfficerIs SerI 3 AgentI 6 Liet	
(7)	Did/do you serve in the military? I Yes I No	<ul> <li>(8) Do you routinely have contact with suspects?</li> <li> <sup>1</sup> Yes <sup>2</sup> No</li> </ul>
(9)	What is your marital status? 1 Married 2 Live-in partner 3 Divorced/Separated 4 Single 5 Widowed	(10) What is the total # of times you have been married?
(11)	Were you married before you joined the force?	······································
	Yes, to my current     2 Yes, to a form       spouse     3 No	er spouse
(12)	How many children are living in your home now # children * N/A	(full or part time)? If none, please check N/A.
	are currently married or with a significant oth ot, please check N/A)	er, please answer the following questions.
(13)	What is the gender of your spouse/significant othe	er? 🔄 1 Male 🛄 2 Female 🗔 3 N/A
(14)	Does your spouse or significant other have a job?	
(15)	If yes, is he/she a police officer?	
(16)	If yes, does he/she work for the BPD?	
(17)	What is the highest level of education completed l	by your spouse/significant other?
(18)	$\square$ <sup>1</sup> High School $\square$ <sup>2</sup> Some College $\square$ <sup>3</sup> Colle If your spouse/significant other has been married this marriage)	ge I4 Graduate School before, please indicate how many times (not including

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## **II. Work Attitudes**

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(10)	Those is good and affective accuration	Strongly Agree	Agree	Neither Agree / Disagree	Disagree	Strongly Disagree
(19)	There is good and effective cooperation between units		2	3		_5
(20)	I can trust my work partner	ים	2	3	]4	5
(21)	I view my work as just a job - it is not a career	1	2	<b>]</b> 3	<b>]</b> 4	_5
(22)	There is not enough time at the beginning or end of the day for my chores at home	1	2	3	<b>_</b> 4	5
(23)	It is likely I will look for another full-time job outside this department within the next year		2	3	_4	5
(24)	Compared to my peers (same rank). I find that I am likely to be more criticized for my mistakes		2	]3	<b>1</b> 4	5
(25)	I feel that I am less likely to get chosen for certain assignments because of "who I am" (e.g., race, gender, sexual orientation, physical characteristics)		2	<b>]</b> 3	<b>_</b> 4	5
(26)	Within the department. gender related jokes are often made in my presence	1	2	3	_4	5
(27)	When 1 am assertive or question the way things are done, 1 am considered militant	1	2	3	4	5
(28)	Promotions in this department are tied to ability and merit	<b>_</b> 1	2	]3	4	5
(29)	Media reports of alleged police wrong-doing are biased against us	<b>_</b> :	<u></u> 2	3	4	5
(30)	The administration supports officers who are in trouble	1	2	<b></b> 3		<b>□</b> ₅
(31)	I have had to make split second decisions on the street that could have had serious				_	-
(32)	The department tends to be more lenient in	<u>_</u> 1	2	3	4	5
(2~)	enforcing rules and regulations for female officers		2	3	4	5
(33)	Some police officers would put their work ahead of anything - including their families		<b></b> 2	3	<b>1</b> 4	5
34)	Female officers are held to a higher standard than male officers		<b>_</b> 2	3	4	5

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### **III. Events at Work**

If you have ever experienced any of the following, please indicate how much it emotionally affected you. Please check N/A if you have not experienced it.

		Not at all	A little	Very much	N/A
(35)	Making a violent arrest	٦ı	2	3	<b>□</b> ₄
(36)	Shooting someone	<b>D</b> t	<b>]</b> 2	]3	⊒₄
(37)	Being the subject of an IID investigation	ים	<b>_</b> 2	<b>]</b> 3	<b>□</b> ₄
(38)	Responding to a call related to a chemical spill		2	]3	٦ı
.(39)	Responding to a bloody crime scene	1	<b>_</b> 2	3	4
(40)	Personally knowing the victim		<b>]</b> 2	]3	_4
(41)	Being involved in a hostage situation	L]1	<b>_</b> 2	3	⊒₄
(42)	Attending a police funeral		2	3	
(43)	Experiencing a needle stick injury or other exposure to blood and body fluids	<b>_</b> 1	<b>_</b> 2	3	4

## Did <u>ANY</u> extremely stressful event you experienced in the past cause you to feel any of the following, for 3 months or more?

(44)	Cause you to have intrusive or recurrent distressing thoughts, memories, or dreams about the	Yes	No
	event	ı	2
(45)	Make you avoid things related to the event (i.e., thoughts, places, conversations)		<b>]</b> 2
(46)	Make you feel detached from people and activities that are important to you	<b>D</b> 1	<b>]</b> 2

### Please check the box that best describes how much you agree with the following statements:

(47)	I can obtain helpful stress debriefing when I	Strongly Agree	Agree	Neither Agree / Disagree	Disagree	Strongly Disagree
(47)	need it (i.e., not just going to a bar)	ים	2	3	<b>□</b> ₄	5
(48)	I feel that I can rely on support from my family, friends, etc		2	3	<b>□</b> ₄	5
(49)	I feel optimistic or hopeful about the future	1	<b>1</b> 2	<b>D</b> 3	<b>□</b> ₄	5
(50)	I feel like I am on automatic pilot most of the time	ים	2	3	4	5
(51)	I feel like I need to take control of the people in my life		2	3	<b>□</b> ₄	5
(52)	I feel burned out from my job	<u> </u>	2	3	4	5
(53)	I feel like I am at the end of my rope	<b>D</b> 1	2	3	4	_5

		Strongly Agree	Agree	Neither Agree / Disagree	Disagree	Strongiy Disagree	I
(54)	I feel I treat the public as if they were impersonal objects		<b>_</b> 2	<b>3</b>	<b>⊒</b> ₄	<b>□</b> 5	
(55)	I have accomplished many worthwhile things in this job		<b>_</b> 2	<b>]</b> 3	<b>1</b> 4	٦٤	·
(56)	My beliefs about my personal safety, spirituality, etc., have been changed by my experiences at work		22	<b>⊡</b> ³	4	5	
IV. D	ealing With Stress						

Always

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When	When dealing with stressful events at work, how often do you:										
		Never	Sometimes	Frequently							
(57)	Draw on your past experiences from a similiar situation you have been in before		2	]3							
(58)	Stay away from everyone, you want to be alone		<b>]</b> 2	]3							
(59)	Talk with your spouse, relative or friend about the problem	Ū	<b>_</b> 2	<u></u> 3							
(60)	Smoke more to help you relax		2	<b>_</b> 3							
(61)	Pray for guidance and strength		<b>]</b> 2	<b>]</b> 3							
(62)	Make a plan of action and follow it	Ū1	<b>_</b> 2	<b>_</b> 3							
(63)	Exercise regularly to reduce tension		<b>_</b> 2	]3							
(64)	Yell or shout at your spouse/significant other, a family member, or a professional		]2	]3							
(65)	Let your feelings out by smashing things		<b>_</b> 2	<b>_</b> ]3							

(71)	Did you ever worry or feel guilty about your alcohol consumption?	🗐¹ Yes	_]2 No	□ <sup>3</sup> N/A (Do Not Drink)
(72)	Did you ever drink more than you planned?	🔲¹ Yes	2 No	□₃ N/A (Do Not Drink)
(73)	Did you have periods when you could not remember what happened when you were drinking?	1 Yes	2 No	□ 3 N/A (Do Not Drink)

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Hang out more with your fellow officers at a bar .....

Gamble .....

Increase your sexual activity

Rely on your faith in God to see you through this rough time

Try to act as if nothing is bothering you .....

(66) (67)

(68)

(69)

(70)

During the past 6 months...

. не	alth Section								
Do you	suffer from the following l	nealth pro	blems	? Plea	ase chec	k all that ap	ply.		
		Yes	s No					Yes	No
(74)	Migraines	D		(75)	Diabete	s		IJ,	2
(76)	Chronic low back pain	a	1 ]2	(77)	High bl	ood pressure .		<b>D</b> 1	]2
(78)	Liver disease	ם	1 🛄2	(79)	Foot pr	oblems		Ū1	<b>_</b> 2
(80)	Heart disease	🗅	1 🗍2	(81)	Reprod	uctive problem	5	<b>]</b> !	]2
(82)	Chronic insomnia (unable to sle	ep)	1 _12						
(83)	Do you currently smoke cigaret cigars, or a pipe?		1 🗋 2	(84)	(i.e., ca	ou had any serie r accident. etc. nonths?	.) in the		2
In the p	oast 6 months, how often d	id you hav	ve (che	ck all	that ap	ply):			
					Never	Sometimes	Frequently	A	ways
(85)	Pains or pounding in your heart	and chest .			IJ,	2	]3		<b>]</b> 4
(86)	Faintness or dizziness				ı ت	2	3		4
(87)	Loss of sexual interest or pleasu	ıre			ı ال	2	<u>]</u> 3		<b>□</b> ₄
(88)	Feelings of low energy or slowe	d down			<b>1</b>	2	3		<b>□</b> ₄
(89)	Thoughts of ending your life .	<i>.</i>				2	3		4
(90)	Feelings of being trapped or cau	ıght			1	2	3		4
(91)	Headaches or pressure in your h	nead				2	3		4
(02)	Blaming yourself for things				<u>.</u> .		<b>_</b> 3		<b>_</b> 4
(93)	Feeling blue				<b>_</b> 1	2	3		<b>□</b> ₄
(94)	Nausea, upset stomach. stomacl	n pains				2	3		4
(95)	Suddenly scared for no reason				ı ا	2	3		4
(96)	Feeling no interest in things					2	3		4
(97)	Trouble getting your breath					2	3		<b>□</b> 4
(98)	A lump in your throat					2	3		<b>□</b> ₄
(99)	Feeling hopeless about the futur	е				2	3		4
(100)	Spells of terror or panic			• • •	<b>_</b> 1	2	3		<b>□</b> ₄
(101)	Feeling so restless you couldn't	sit still		• • •		2	3		<b>□</b> ₄
(102)	Crying easily	<i>.</i>				2	3		4
(103)	Feeling that something bad was at work					2	3		<b>□</b> ₄

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How of	How often are the following statements true?								
		Never	Sometimes	Frequently	Always				
(104)	I feel tired at work even with adequate sleep		<b>_</b> 2	<b>]</b> 3	<b>]</b> 4				
(105)	I am moody, irritable, or impatient over small problems	<b>D</b> 1	<b>_</b> 2	]3	٦				
(106)	I want to withdraw from the constant demands on my time and energy from work	<b>1</b>	2	3	4				
(107)	I feel negative, futile or depressed about work		<b>]</b> 2	]3	<u>۰</u>				
(108)	I think that I am not as efficient at work as I should be		<b>]</b> 2	3	_₄				
(109)	I feel physically, emotionally and spiritually depleted .	<b>D</b> 1	2	3	4				
(110)	My resistance to illness is lowered because of my work	<b>D</b> 1	2	3	<b>]</b> 4				
(111)	My interest in doing fun activities is lowered because of my work	<b>J</b> 1	<u></u> 2	3	<u> </u>				
(112)	I feel uncaring about the problems and needs of the public when I am at work		2	3	4				
(113)	I have difficulty concentrating on my job	<b>D</b> 1	2	3	<b>□</b> ₄				
(114)	When I ask myself why I get up and go to work, the only answer that occurs to me is "I have to"	<b>_</b> 1	2	3	4				

## VI. Behaviors

Have you ever gotten out of control and been physical (e.g. pushing, shoving, grabbing) with:

		Yes	No		Yes	No	N/A
(115) A fellow officer	• •		2	(116) Your child(ren)	ı	2	<b>]</b> 3
	Yes	No	N/A				
(117) Your spouse/significant other.		<b>2</b> 2	3	(118) Your pet(s)	ı	2	<b>]</b> 3

### Have these people ever-gotten-physical with you?

	Yes	No	(120) Norman (111)	Yes	No	N/A
(119) A fellow officer		2	(120) Your spouse/significant other	⊒1		
(121) Your parents (when you were a			(122) Did your parents ever get physical with each	Yes	No	Don't Know
child)		2	other?		2	3
(123) Suspects or civilians		2				

### VII. Work - Home Issues

(124)	I often get home too physically and emotionally exhausted to deal with my	Strongly Agree	Agree	Neither Agree / Disagree	Disagree	Strongly Disagree	
	spouse/significant other		2	3	<b>□</b> ₄	5	<b>_</b> 6
(125)	I encourage my spouse/significant other to spend time with their family and friends		<b>_</b> 2	3	<b>]</b> 4	٦₅	De
(174)	Lootah mucalf tracting mu family the wa	Ī	Strongly Agree	Agree	Neither Agree / Disagree	Disagree	Strongly Disagree
	I catch myself treating my family the way treat suspects			2	3	<b>]</b> 4	5
(127)	At home, I can never shake off the feeling being a police officer	0	1	2	3	_4	₽
	A person who refuses to have sex with hi her spouse/significant other is asking to b beaten	e	1	2	3	4	_5
	I expect to have the final say on how thin done in my household			2	3	4	5
	It is okay for a person to get physical (e.g shoving, grabbing, smacking) with his or spouse/significant other if they've been unfaithful	her		2	3	4	□5
	Getting physical once in a while can help maintain a marriage/relationship		1	2	<b>]</b> 3	<b>1</b> 4	5
	There is no excuse for people getting phy with their spouse/significant other		<b>_</b> 1	<u> </u>	<b>_</b> 3	<b>.</b>	5

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Thank you for your time and effort. Your input will be valuable in identifying ways to make your work environment a better place. If you have any questions, comments or need more information, please call the office of Dr. Robyn Gershon listed on your cover letter. 410-955-3046

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Theoretical Model: SHIELDS

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Category	ltem .	In the , quest?	Source	Item #s from	If no possible :	Complete ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Demographic	:5					
	Age, gender, education, length of service, marital status, race	Y	standard, focus groups	stq1,2,3,4,5,8,9, 10		vk
	Spousal demographic information	Y	W, fg	s2	ι	ok
	Career orientation (social activist role)	Y	Westat	s3∆q7,8		? Info to come from westat
	Fear and perception of risk	? .	ſg	new 11.5		no
	Health status	N			prison quest.	?
	Life events	?	Saranson (cut)	stq19		ро
	Impulse control	N				
	Locus of control	N				
	Obsessive worry, self esteem, social anxiety	N				
	Other jobs, school, hobbies	Ý	fg, westat	stq16		no

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### Theoretical Model: SHIELDS

Category	Item	In the quest?	Source	Ifem #s from the	Tr ng possible, source	Complete at a scale?
Demographics						·
	Age, gender, education, length of service, marital status, race	Y	standard, focus groups	stq1,2,3,4,5,8,9, 10		ok
	Spousal demographic information	Y	W, fg	s2	۴.	ok
	Career orientation (social activist role)	Y	Westat	s3Aq7,8		? Info to come from westat
	Fear and perception of risk	?	ſg	new 11.5		no
	Health status	N			prison quest.	?
	Life events	?	Saranson (cut)	stq19		no
	Impulse control	N				•
	Locus of control	N				
	Obsessive worry, self esteem, social anxiety	N				
	Other jobs, school, hobbies	Y	fg, westat	stq16		no

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Category	Item	In the quest?	Source	Item #s from the	If not possible is sources, is the second	Complete 2
	Personality (Type A, aggressiveness, achievement oriented, impatience, restlessness, hyper-alertness, explosiveness)	N			•	
	Risk taking and sensation seeking tendencies	N				
Stressors: Orgainzational	/management associated					
	Authoritarianism	Y? .	Westat	s3A, s3C?		? Info from westat
	Communication-related	N?				
	Coordination and cooperation between units	Y	Cooper	s3Aq3		no
(not exactly, related to one below)	Court related duties	Y	Cooper	s3Aq1,s3Bq13		
	Decision making control	N				
	Discrimination, harassment (gender, sexual orientation, race)	Y	westat, fg	s3Aq12-17, s3Cq4,7,8,10, s4q1		? Info from westat
	Down-sizing impact	N		•		

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Category	llem	In tho; quest?	Source	Iten #s from a guestionnaire	ICno, possibler; source	Completo Harris
	Personality (Type A, aggressiveness, achievement oriented, impatience, restlessness, hyper-alertness, explosiveness)	N			:	
	Risk taking and sensation seeking tendencies	N				
Stressors: Orgainzational/i	nanagement associated					
	Authoritarianism	Y?	Westat	s3A, s3C?		? Info from westat
	Communication-related	N?				
	Coordination and cooperation between units	Y	Cooper	s3Aq3		no
(not exactly, related to one below)	Court related duties	Y	Cooper	s3Aq1,s3Bq13		
	Decision making control	N				
	Discrimination, harassment (gender, sexual orientation, race)	Y	westat, fg	s3Aq12-17, s3Cq4,7,8,10, s4q1		? Info from westat
	Down-sizing impact	N	· · · · ·	•		

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Category	Item	In the quest?	Source	Item #s from questionnaire	If noi possible a source	Camplete
	Job/task factors (time pressures, work load, work pace)	Y	cooper	s3∧q2, s3Dq1-4	!	yes?
	Lack of administrative support	Y	westat, cooper	s3Aq6,21,s3Cq2 ,5,8,9		no? Info form westat
	Lack of group support (cohesiveness)	Y	westat, cooper	s3Aq3,5,9.5 (new) s3Cq6		
Stressors: Police operation	as (job associated)					
(Not exactly - similar to one above)	Court failures	Υ.	Cooper	s3Aq1,s3Bq13		
(Same as above)	Dealing with the criminal justice system	Y	Cooper	s3Aq1,s3Bq13		
	Dealing with the families of victims/perpetrators	N				
	Dealing with the media	Y	Cooper	s3∧q20		110
	Dealing with perpetrators	Y	fg, westat	s3Bq2,5,6,7,12		
	Dealing with the public	Υ.	Cooper	s3Aq19		
	Death, injury to self or co- worker, threat of harm (hazardous working conditions)	Y	Westat	s3Bq1,3,4,7,10, 11,12	1	

		T			1	122212 112 21 23 1 20 1 1 1 1 1 2 2 2 8
Category	Ttem And The Provide State	In tho and quest?	Source	Hom #s from	/If noi possilitoia	Completes
<u></u>	Job/task factors (time pressures, work load, work pace)	Y	cooper	s3Aq2, s3Dq1-4		yes?
	Lack of administrative support	Ý	westat, cooper	s3Aq6,21,s3Cq2 ,5,8,9		no? Info form westat
	Lack of group support (cohesiveness)	Y	westat, cooper	s3∆q3,5,9.5 (new) s3Cq6		
Stressors: Police operation	ns (job associated)					
(Not exactly - similar to one above)	Court failures	Υ.	Cooper	s3Aq1,s3Bq13 		
(Same as above)	Dealing with the criminal justice system	Y	Cooper	s3Aq1,s3Bq13		
****	Dealing with the families of victims/perpetrators	N				
	Dealing with the media	Y	Cooper	s3Aq20		no
	Dealing with perpetrators	Υ	fg, westat	s3Bq2,5,6,7,12		
	Dealing with the public	Ý	Cooper	s3Aq19		-
	Death, injury to self or co- worker, threat of harm (hazardous working conditions)	Y	Westat	s3Bq1,3,4,7,10, 11,12		

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Category	Item	In the	Source	Item #s from	If no, possible	'Complete 14
L		fquest? [		questionnairo	source Reality	senle?
(Again - repeated)	External contacts (courts, lawyers, etc.)	Y	Cooper	s3∆q1,s3Bq13	<u></u>	
	Investigatory crime	?				·
	Lack of respect and personal recognition	Y	fg, westat, cooper	s3Aq12,18,s3Cq 8,10		
	Lack of necessary equipment	Y?	Cooper	s3Aq2, s3Dq2		
(same as one before)	Lack of resources	Υ?	Cooper	s3∆q2, s3Dq2	L.	
	Militarism	N				
(Repeat of supervisor questions)	Style of supervision (over supervision, under supervision)	Y	cooper, westat,	s3Aq6,14,s3Cq2 ,5,9,s3Eq1		
	Paperwork	Υ	cooper	s3Dq4		no
	Pay, benefits	Y?	ſg	s1q20	·	no
	Poor physical environment at work	N				
(Not this exact issue)	Promotion (stagnation, over- promotion)	N	westat, cooper	s3Bq18,s3Cq3, 10, s3Eq5		
	Responsibilities without any authority/autonomy	N		•		
(Y or N, not if has effect)	Shift work	Y	ſġ	stq15	, ,	

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Çategory,	Item	In their quest?	Spurcetaling	liem #sfrom / [] questionnaire	If no possible is a source	Completei in the seale?
(Again - repeated)	External contacts (courts, lawyers, etc.)	Y	Cooper	s3Aq1,s3Bq13	!	
	Investigatory crime	?				
	Lack of respect and personal recognition	Y	fg, westat, cooper	s3Aq12,18,s3Cq 8,10		
	Lack of necessary equipment	Y?	Cooper	s3Aq2, s3Dq2		
(same as one before)	Lack of resources	Y?	Cooper	s3Aq2, s3Dq2	,	
	Militarism	N				
(Repeat of supervisor questions)	Style of supervision (over supervision, under supervision)	Y	cooper, westat,	s3Aq6,14,s3Cq2 ,5,9,s3Eq1		
	Paperwork	Y	cooper	s3Dq4		no
	Pay, benefits	Y?	ſg	s1q20		10
	Poor physical environment at work	N				
(Not this exact issue)	Promotion (stagnation, over- promotion)	N	westat, cooper	\$3Bq18,\$3Cq3, 10, \$3Eq5		
	Responsibilities without any authority/autonomy	N				
(Y or N, not if has effect)	Shift work	γ	ſg	stq15	· ·	

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Category	Item		Saurco	Itom #a from 141	in normassinterit source	Complete
		quest? 1		questionnaire	source	Complete and a scale?
	Technological changes and challenges	N			8 : :	
(Not as such - as above)	Unnecessary bureaucratic paperwork	Y	cooper	s31)q4		
Non-work stres	sors: work-family conflicts					
	Time constraints (absence from home)	N?		(?s on exhaustion - s7)		
	Unpredictable schedules	N?		(Same)		
	Family/household responsibilities	Υ.		stq17		
(no elder)	Eldercare/child care	Y		stq7		
·	Social support (social isolation)	Y	mini	ś4Cq19		
Coping Mechan	isms					
	Passive avoidance		B&M has 3 met			······································
	Passive avoidance/harmful		cognitive, active avoidance, with	e behavioral, and 2 focuses:		
	Anger		problem vs. emo			
(As above)	External support	Ý	mini	s4Čq19		
	Cognitive (informed)		,	•		

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Category	Item a start sea	In the figurest?	Sonree it	Iten #s.front questionnaire	If pay possiblest	Complete scale?
	Technological changes and challenges	N			<u></u>	
(Not as such - as above)	Unnecessary bureaucratic paperwork	Y	cooper	s3Dq4		
Non-work stres	sors: work-family conflicts					
	Time constraints (absence from home)	N?		(?s on exhaustion - s7)	, ,	
	Unpredictable schedules	N?		(Same)		
	Family/household responsibilities	Υ.		stq17		
(no elder)	Eldercare/child care	Y		slq7		
	Social support (social isolation)	Y	mini	s4Cq19		
Coping Mechan	isms					
	Passive avoidance		B&M has 3 met			
	Passive avoidance/harmful		cognitive, active avoidance, with	e behavioral, and 2 focuses:		
	Anger		problem vs. emo			
(As above)	External support	Y	mini	s4Cq19		
	Cognitive (informed)			•		

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# TOTAL QUALITY MANAGEMENT: TEAM FINDINGS

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### TOTAL QUALITY MANAGEMENT TEAM FINDINGS

### Project Summary:

This past year, researchers from the Johns Hopkins University, School of Public Health, worked closely with the Fraternal Order of Police (FOP) and Baltimore Police Department (BPD) leadership to conduct a police stress survey. This collaborative study was recently successfully completed and a summary of the results is provided below. One of the most important aspects of the study was the generation of stress management/stress prevention strategies, and the results of this last phase of the study are summarized on the final page of this report. This is also a good moment to thank the many officers, spouses, FOP & BPD leadership, the research team, and the many volunteers for helping to make this important study a tremendous success. The results from Baltimore will hopefully be used to help make police work less stressful for police officers throughout the country. Finally, the study was generously supported by the National institute of Justice, an agency actively seeking to improve the health and well being of the nation's law enforcement personnel.

### **Study Results:**

There were 1100 completed questionnaires returned to the study office, this represented a 70% response rate. The officers completing the questionnaire were very similar to the general make-up of the police force in general. For example, 85% of the officers were male, the average age was 36 years and most had one or two years of a college education. On average, the officers had been on the force eleven years, 18% had the rank of sergeant and higher. About a third of the officers had served in the military, and almost 10% of the officers had spouses who were also police officers.

### **Stressors**

There were many different things that tended to "stress" officers, and the most stressful were situations which are often referred to as "critical incidents." Examples of these include attending a police funeral, being the subject of an Internal Investigation Department (IID) investigation, experiencing a needle stick, involvement in a shooting, a violent arrest, or a hostage situation. Of all the other aspects of policing that were stressful, by far the single most important one was the feeling many officers had of not being supported when they were in trouble. In other words, some officers felt that if they made the right decision everything was fine, but if they made a wrong one or a questionable one, then they felt very alone. Whether this really is true or not - the perception of 66% of the officers is that they feel isolated from the department if they get in trouble.

### Perceived Stress, Health and Well-Being

Roughly one-quarter of the officers would be classified as having "high stress" levels. Those that did were more likely to report symptoms of anxiety (pounding chest),

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or depression (low energy, loss of interest), or somatic symptoms (headaches) than officers with lower levels of perceived stress. Also, officers with high stress levels were much more likely to report heavy alcohol use, smoking, more injuries, and higher rates of chronic health problems such as chronic lower back pain, migraines, high blood pressure, and insomnia. Female officers with high levels of stress also reported high rates of reproductive health problems and very high rates of headaches and migraines. Of particular interest was the relationship between stress and spousal abuse (domestic violence), and there was a highly significant connection between spousal abuse and high levels of stress. The use of alcohol combined with high levels of stress served as a "spark", and it increased the risk for domestic violence.

Sadty, some officers appear to be "burned out" on policing, with about one-third reporting that they are on "automatic pilot", or "burned out from my job", 13% were not optimistic about the future.

There can be no doubt that policing is stressful work. Many different studies have shown that police officers have one of the most difficult, demanding and stressful occupations. Throughout the country, it is becoming increasingly difficult to retain and hire police officers. Yet the results of this study are somewhat reassuring because a large majority of officers appear to be able to successfully cope with the pressures of the job. In order to identify ways to help lessen the stress for all officers, Total Quality Management teams, including one for spouses, were formed to work on possible solutions. Their recommendations are summarized below:

### Total Quality Management Team Recommendations

### Dealing with stressful situations

<u>A. Problem:</u> Attending police funerals (i.e., getting upset and stressed by the realization of vulnerability).

Possible Solutions:

- 1. Honest and thoughtful discussions related to the reality of the job, led by experienced officers and counselors and programmed into the academy training curriculum.
- 2. Debriefing should be conducted at the slain officer's district and made available to all district commanders who request it for their employees.
- 3. Review the entire critical incident debriefing policy and procedures, update and improve as necessary. This should be done at least every 3-5 years.
- 4. Increased utilization of the chaplaincy program in this area.
- <u>B. Problem:</u> Bloody crime scene (i.e., again this increases the officers perception of risk)

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Possible Solutions:

- 1. Show a video of a bloody scene and follow this with a therapist led discussion on vulnerability. Do this during academy training
- C. Problem: Needlestick injury (i.e., officers fearful about HIV infection and AIDS)

Possible Solutions:

- 1. Develop and publicize policy and protocol so officers can get post-exposure prophylaxis in two hours and provide HIV/AIDS training for officers.
- D. Problem: Perceived lack of support for officers in trouble.

### Possible Solutions:

- Regular management training for all supervisory personnel. They should be trained to identify officers at risk for getting in trouble, so that they can help prevent it. If the officer is already in trouble, they should be taught the methods that can assist the officer and help him/her through their time of trouble. Again the chaplaincy program might be utilized to provide support.
- Have members of the advisory board and the commissioner meet periodically with officers and recent retirees for candid small group discussions on this matter.
- 3. Clarify policies on paid/unpaid administrative leave.

### Measures to lessen the perception of stress and/or improve coping skills

<u>A. Problem:</u> Officers are not as fit as they could be. This makes them more vulnerable to stress.

### Possible Solutions:

- 1. Conduct mandatory annual physical and psychological evaluations.
- 2. Support gym attendance by allowing work outs during work time.
- 3. Support a public safety gym and fitness program that officers can attend
- 4. Sponsor a wellness program, support sessions with individual trainees, nutrition counselors, etc.
- 5. Support confidentiality of all but the most serious issues when dealing with mental health and physicians. Officers don't want to reveal anything that may get them in trouble- consequently they don't get the help they need.
- 6. Have a private waiting areas for any form of counseling.
- B. Problem: Lack of advancement.

Possible Solutions:

1. Install computers at FOP and provide linkage for distance learning (degree

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programs) (make them available also to spouses).

- 2. Start a management leadership and mentorship program.
- C. Problem: Wear and tear on officers related to paper work and paper trails.

Possible Solutions:

1. Install computers in all districts and eventually cars or provide laptops, paid for by corporate sponsors or Microsoft.

**D. Problem:** Improve the overall status of policing, including equity issues.

Possible Solutions:

- 1. Have the FOP work with BPD with officers' best interests in mind and working in a collaborative, not adversarial manner.
- 2. Examine the status of female police officers and assign this to a high level commission. This should include everything (e.g., recruitment, training, clothing requirements, etc.) and basically all other policies and procedures that pertain to female police. The overall goal of the commission should be to document ' existing policies and practices and determine, what, if any, changes are needed to improve the working environment for female police officers.

### Strategies to target adverse stress-related outcomes

### A. Problem: Alcoholism

### Possible Solutions:

- 1. The FOP should sponsor an AA group for officers only.
- Annual screening for alcohol abuse (at the time of the annual physical).
- 3. Training of Sergeants and above on early warning signs so they can help officers before they get into trouble.

### **B. Problem:** Accidents

Possible Solutions:

- 1. Support special "police-level driving" school for all new officers (while still in the academy).
- 2. Any officer involved in an accident should be required to take this program and periodically a random number of officers should also be assigned for retraining.

<u>C. Problem:</u> Spousal abuse in police families.

### Possible Solutions:

1. Support and encourage effective communication and partner commitment. This

Page 4

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promotes stability in the workforce and has been shown to decrease turn-over. This will also help minimize the threat of domestic violence. There are several ways to do this.

- Send trained spouses to the academy to serve as facilitators on discussions related to how policing affects the marriage and the family.
- Have trained "successful" seasoned police couples serve as mentors to new police couples.
- Sponsor police couples only "Marriage Encounter" weekends.
- Sponsor more couples activities, actively encourage spouse participation in social events, parties, picnics, coffee hours, prayer sessions, pre-nuptial
- training, couples counseling, marriage therapy, communication skills classes, parenting workshops, etc. Make the spouses more a part of the police officers work life.
- Encourage the revitalization of the women's auxiliary group. They need to conduct a needs assessment to find out ways to involve partners and strengthen families (e.g., daycare vouchers, child care sharing for vacations, support groups for families with teens, eldercare issues, upcoming retirements, etc).
- Support for non-traditional partnerships and other family members is needed (e.g., for girlfriend/boyfriend, parents, teens, etc.)
- Provide information to police families via FOP regarding numerous police web sites.
- 2. Give officers cell phones, beepers, so they can be reached by families at all times.
- 3. Limit the amount of overtime officers are allowed to do. Conduct financial planning and finance management for new recruits (mandatory) and then sponsor many diverse financial programs for all officers and families.
- 4. Sponsor retirement planning programs. Help officers to make successful transitions.
- 5. Ensure that BPD policies on spousal abuse are clear and strictly enforced (zero tolerance). The department should provide liaison services so spouses can get the help and services they need (this will encourage them to report such incidences).
- 6. Sponsor a mental health hot line (24 hour) service for officers in trouble of any sort. (Anonymous with the encouragement of referrals).
- **D. Problem:** Poor coping skills.

### Possible Solutions:

1. Hire trainers to provide "hardiness training" for officers identified at especially high risk because of poor coping skills. They could self-refer or be referred by their seargents.

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### Miscellaneous recommendations

A. Problem: Promotions viewed sometimes as "unfair."

Possible Solutions:

- 1. Re-examine the entire exam and promotion procedures and policies and compare these tests with other agencies.
- 2. Provide job descriptions for each position.
- **B. Problem:** Sub-optimal management skills

### Possible Solutions:

- 1. Provide mentors or coaches for all new supervisors (e.g., sergeants).
- 2. Evaluate supervisors on an annual basis (use anonymous surveys), make staff performance and staff conduct one of the tools to evaluate managers competency.

C. Problem: Lack of upward advancement.

### Possible Solutions:

- 1. Provide coaches/mentors (e.g., retirees) to help officers preparing for exams, interviews, etc.
- 2. For women, minority members, etc., actively support mentorship programs, and group activities (similar to the Vanguard). Assign mentors to individuals interested in management positions. Sponsor a management training program. Have individuals interested in management meet informally with the Commissioner for advise, support. Have a women's management core group form to support more junior women.

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Robyn R.M. Gershon, DrPH May, 1999 Baltimore Police Department Total Quality Management Teams

## Project SHIELDS Data

Demo	graphics
Gender - Males Females	85% 15%
Average age	36 years
Ethnicity Caucasian Other	64% 36%
Education Some college College	55% 26%
Average years in service	11.5 years
Current rank Officer Agent Detective Sergeant Lieutenant	54% 6% 14% 13% 5%
Have served in the military	35%
Marital state Married Live in partners Divorced Single Widowed	60% 8% 12% 19% 0.5%
Spouse/partner is a police officer	9%
With Baltimore Police Department	7.5%

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Robyn R.M. Gershon, DrPH May, 1999

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Stressors	
Attending a police funeral	55%
Being the subject of an IID	34%
Experiencing a needlestick injury	30%
Making a violent arrest	19%
Personally knowing the victim	16%
Responding to a bloody crime scene	16%
Shooting someone	8%
Hostage situation	8%
Chemical spill response	4%

Health Problems	
Chronic low back	35%
Foot problems	23%
Migraine	20%
High blood pressure	16%
Chronic insomnia	15%
Reproductive problems	6%
	(18% of women)
Heart disease	3%
Diabetes	3%
Liver disease	1%

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Robyn R.M. Gershon, DrPH May, 1999 Baltimore Police Department Total Quality Management Teams

Behavioral Problem	S
Current smokers	24%
Serious accidents in past 6 months	9%
Physical abuse Fellow Officer - Spouse Children Pets	7% 7% (18% of women) 7% 8%

Psychological Prob	lems
Low energy	. 22%
Headaches	12%
Loss of interest	6%
Loss of sexual interest	5%
Feeling something bad	4%
Pounding in the chest	4%
Thoughts of ending life	1%

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Critical Incidents	Number	% Agree/ Strongly Agree
Workplace/Stress Environment	000	
Making split second decisions on the street that	922	88.23
could have had serious consequences		
Some police officers would put their work ahead of anything, including their families	777	72.89
Coworker Environment		
There is good and effective cooperation between units	526	49.76
I can trust my work partner	811	76.65
Unfair Treatment		
I feel that I am less likely to get chosen for certain	391	36.64
assignments because of "who I am" (e.g., race, gender, sexual orientation, physical characterisics.		
Within the department, gender related jokes are	307	28.96
often made in my presence		
The department tends to be more lenient in	445	41.82
enforcing rules and regulations for female officers		
Female officers are held to a higher standard than male officers	121	11.36
, Work Satisfaction		
view my work as just a job, it is not a career	214	
		20.28
t is likely I will look for another full-time job outside his department within the next year	222	20.77
Administrative Support		
Compared to my peers (same rank), I find that I am ikely to be more criticized for my mistakes	193	18.19
When I am assertive or question the way things are done, I am considered militant	277	26.16
Promotions in this department promotions are tied o ability and merit	175	16.45
The administration supports officers who are in rouble	87	8.25

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# RESULTS/ABSTRACTS

## American Public Health Association Annuai Meeting and Exposition, Chicago, IL

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Health and Well Being in Aging, High Stress Workers

Robyn R.M. Gershon Xiaabin Li, Carla Storr, Margaret Patten, Deanna Vickers

> The Johns reports University Screet of Public Health Phone: 410-455-3046 Fait: 410-41-1626 E-mail: repartion@nach.edu Funging Provided by NU

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### Abstract

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- dependent (CR + L9), (CL ) Jab-2014; In dependent (CR + L9), (CL ) Jab-2014; In dependent of basic patients von application bisiste forms han a first of 37 years of 40. These results during the influresults are a sense of the application conservational hashing patients on provide the information occupies are matched, secondly for high relted by patients.

### Introduction

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Aprig warvars entrasived in high nak, high atress pais may be estabularly at rais for solvenin health automes. This is a process of growing importance bocause of the raisely sport; U.S. workforce affecting all po ascens, raiseling portaging, narring, EMS, sci. Proce Departments are approving to accessed laton appropriate accessing relations on open workings. Ascentig all on others on the do safety and effectively we as later promotion in the do safety and effectively we as later promotion in the do safety and effectively we as later promotion in the do safety and effectively we as later promotion in the doming years.

What is the relationant platweeth age, parcalwee wonastreas, and stress-numer, adverse pullcomes in a sobulation of worker policie officiers?

Study Design" An archivelas questionnare was developed and sefual we serve to police of cars from an uner-city, non crime index. Police Desarition

# Study Methods The 132 nen basic force contribution as anyones Bernar setting - Ape - Basic Parage - Brear - Brear - Brear - Current Rave - Marcia Status Word Parage Retrieves: - Organization Factor: - Organization - Organization

#### ernetwood Warn Stream: Passar Warnstram Score (~

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Coping Statement: • Coping-operations Coping-operations • Discongraphing • Matassactions

<u>Birees-Related Cyllinnes</u>: • Psymulogical - Physicspital - Bahavari

### Study Methods

- Self-administered anonymous questionnaire at roll call visits
- All on-duty officers at roll call were eligible to participate
- All analyses were conducted using State Software
- · Most firms had Likert-type responses
- All scales (including several new ones) anderwent extensive factor analysis

### Results

- Demographics
- Gender (maie): 84% (N= 126)
- Age (mean): 54 years
  Education (13+ years): 85%
- Tenure (mean): 28 years
- (range 2-14 years)
- Current Rank:
- Officer: 44%
- Agent 6%
- Detective: 10%
   Sergeant and higher: 40%
- · Contact with suspects: 60%
- · Mantal Status:
- Married/ Living with Partner: 81%
   Divorced: 17% (1-3x)
  - Single Widowed: 2%

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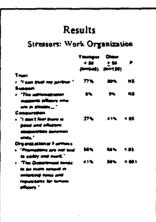
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Results Stressors: Critical Incidents			
Stressors	: Critical	Incid	<b>e</b> nts
~ ~ ~ ~ ~	wa j.meima	sty Affec	-
	Younger		
	ەك	<u> </u>	
Volen arres		22%	·.s
Shooling someone	30%	42%	< 2
Being the subject of		5C*	٦.'
Responding to a chemical soli		12%	< : 1
Stoody offers scene	17%	14%	•.5
Personality tenowing		47 <b>%</b>	< 51
Hostage situation	13%	18%	< 05
Attending bolice ful	wa 65%	78%	< 51
NeedlashCl. mutr/	54%	50%	NS

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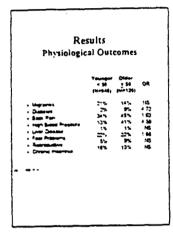
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Results Associations Berween Str Stress	ressors and
	OR
Critical Incidents	9.3
<ul> <li>Work Organization</li> </ul>	3.5
<ul> <li>Demographics</li> </ul>	1.8

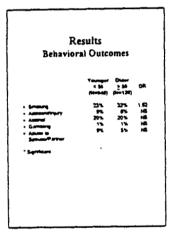
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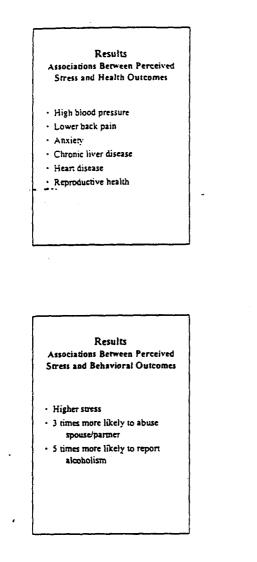
Results Psychological Outcomes			
	mean scores		
	<50	≥50	P
Scares			
Depression	1.47	1.51	NS
Somettation	1.39	1,43	NS
Areen	1.27	1.28	N'\$
Significant Diff	erences-	Items	
	1 38		< 01
F anti-half	1.28	1 38	< 06
LOSS O' SARUB	1 40	1.50	< ()1
Feeing Bue	1 72	1 88	< 01
Enc o - Root	394	3.71	< 05

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### Conclusions 1. Older police are more likely

- to:
- be adversely affected by critical incidents
- have higher stress-related health problems
- -have higher workstress
- ieveis
- Perceived stress was significantly related to various adverse outcomes.

### Recommendations

- Older workers in high stress jobs should be evaluated for stress and stress-related health problems.
- 2. Interventions aimed at identification, prevention and managing stress and stress-related health

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\* problems are needed for high stress employees. including older employees.

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### Health and Well Being in Aging, High Stress Workers

### Robyn R.M. Gershon Xianbin Li. Carla Storr, Margaret Patten, Deanna Vickers

The Johns Hopkins University School of Public Health Phone: 410-955-3046 Fax: 410-614-1626 E-mail: rgershon@jhsph.edu

### Abstract

The issue of stress-related health effects among aging workers is a problem of growing importance. By the year 2005, the proportion of U.S. employees in the 45-64 age group is expected to grow at a faster pace than any other age group. One important factor related to the health and well being of aging workers is the effect of workstress, both current and cumulative. Older workers who have experienced high levels. If workstress, with associated sales number of the related of the relation.

behaviors, may be at an increased risk of poor nearth outcomes related to stress. In order to examine this relationship, a cross-sectional survey was conducted of older police officers.

Responses were obtained from 1100 officers (response rate 70%), including a subsample of 126 officers over 50 years of age. Analyses were directed at the joint and independent effects of stress on the physical and psychological well being of officers. The results were as follows:

•perceived stress was significantly associated with health problems (OR=4.72, CIns 2.12-9.84):

- -high blood pressure
- · low back pain
- heart disease
- insomnia
  migraines

depression (OR= 8.93, Ci., 3 88-20.56).

The frequency of health problems was significantly higher in older officers than in those  $\leq$  50 years of age. These results indicate that older workers may be at risk for significant stress-related health problems, and appropriate risk reduction strategies are needed, especially for high risk work populations.

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### Introduction

### Population:

• Employees in high stress jobs are at increased risk for stress-related adverse outcomes.

 Police officers are known to be a work population at high risk for psychosocial work stress.

### Problem:

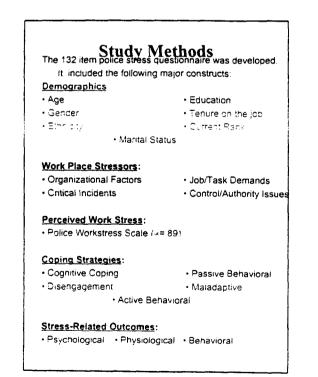
Aging workers employed in high risk, high stress jobs may be especially at nsk for adverse health outcomes. This is a problem of growing importance because of the rapidly aging U.S. workforce affecting all job sectors, including policing, nursing, EMS, etc. Police Departments are beginning to experience labor shortages leading to an increasing reliance on older workers. Keeping older workers on the jcb safely and effectively will be labor priority in the coming years.

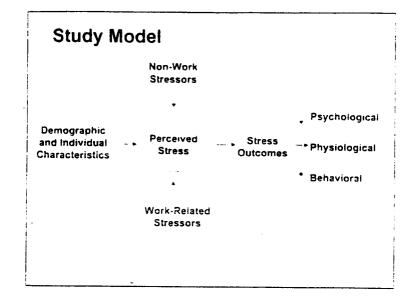
### Research Question:

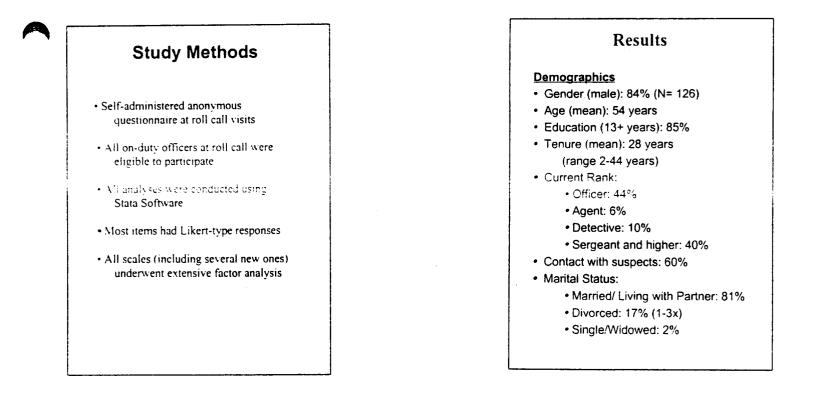
What is the relationship between age, perceived workstress, and stress-related adverse outcomes in a population of older police officers?

### Study Design:

An anonymous questionnaite was developed and self-administered to police officers from an inner-city, high crime index Police Department.







% Very Much Emotionally Affected			
•	Younger <50	Older ≥ 50	P
Violent arrest	2**%	24%	NS
Shooting someone	30%	48%	<.05
Being the subject of IID investigation	52%	50%	NS
Responding to a chemical spill	9°.	13%	<.01
Bloody crime scene	17%	14%	NS
Personally knowing the victim	27%	42%	<.01
lostage situation	13%	18%	<.05
Attending colice funer	al 65%	78%	<.01
Needlestick injury	54°%	60%	NS

Stressors: Wo	rk Org	anizat	ion
	Younger < 50 (N≈946)	≥ 50	P
Trust	(11 01.0)	(	
<ul> <li>'i can trust my partner.''</li> <li>Support</li> </ul>	7750	80%	NS
<ul> <li>"The administration supports officers who are in trouble"</li> </ul>	8%	9%	NS
Cooperation			
<ul> <li>"I don't feel there is good and effective cooperation between units."</li> </ul>	27%	41%	<.05
Organizational Fairness			
<ul> <li>"Promotions are not tied to ability and ment."</li> </ul>	56%	58%	<.05
<ul> <li>"The Department tends to be more lenient in enforcing rules and regulations for female officers."</li> </ul>	41%	66%	<.00

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Results Associations Between Str Stress	essors and		
	OR		
<ul> <li>Critical Incidents</li> </ul>	9.3		
<ul> <li>Work Organization</li> </ul>	3.5		
<ul> <li>Demographics</li> </ul>	1.8		

Re Physiologie	sults	comes	1
	Younger < 50 (N=946)	Older ≥ 50 (N=126)	OR
<ul> <li>Migraines</li> <li>Diabetes</li> <li>Back Pain</li> <li>High Blood Pressure</li> <li>Liver Disease</li> <li>Foot Problems</li> <li>Reproductive</li> <li>Chronic Insomnia</li> </ul>	21% 2% 34% 13% 1% 22% 5% 16%	14% 9% 45% 1% 32% 9% 13%	NS 4.73 1.63 4.59 NS 1.66 NS NS

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Behavio	ral Outco	omes	
	Younger < 50 (N=946)	≥ 50	OR
Smoking     Accident/Injury     Alcohol     Gambüng     Abuse to     Spouse/Partner     Significant	23;; 9% 20°6 1% 3°,	32?。 6% 20% 1% 5%	1.62 NS NS NS

Results				
<b>Psychological Outcomes</b>				
	mean scores			
-, <b>u</b> .	<50	<u>&gt;</u> 50	р	
Scales				
Depression	1.47	1.51	NS	
Somatization	1.39	1.43	NS	
Anxiety	1.27	1.28	NS	
*Significant Diff	erences-	Items		
Chest Pain	1.38	1.57	<.01	
aintness	1.28	1.38	<.05	
Loss of Sexual	1.40	1.58	<.01	
interest				
eeiing Blue	1.72	1.88	<.01	
End of my Rope	3.94	3.71	< 05	

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### Results Associations Between Perceived Stress and Health Outcomes

- High blood pressure
- Lower back pain
- Anxiety
- Chronic liver disease
- Heart disease
- Reproductive health

### Results

Associations Between Perceived Stress and Behavioral Outcomes

- Higher stress
- 3 times more likely to abuse spouse/partner
- 5 times more likely to report alcoholism

### Conclusions

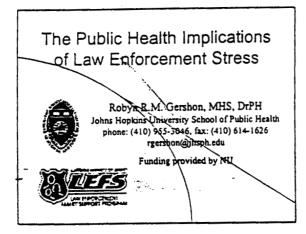
1. Older police are more likely to:

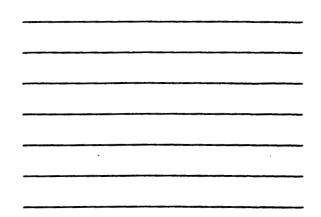
- be adversely affected by critical incidents
- have higher stress-related health problems
- have higher workstress levels
- 2. Perceived stress was significantly related to various adverse outcomes.

### Recommendations

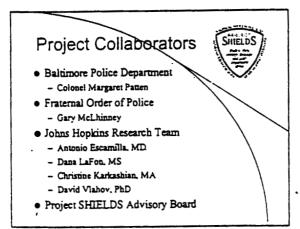
- Older workers in high stress jobs should be evaluated for stress and stress-related health problems.
- 2. Interventions aimed at identification, prevention and managing stress and stress-related health problems are needed for high stress employees, including older employees.

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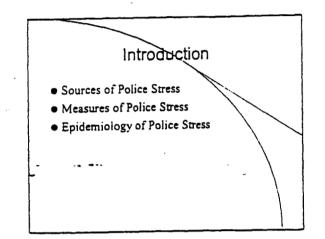
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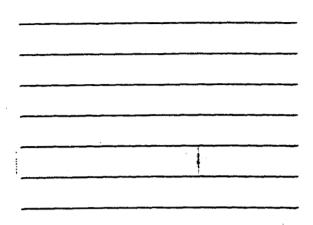


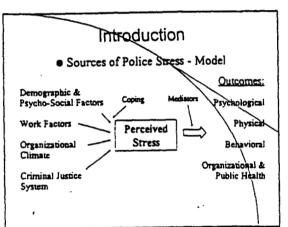
Introduction

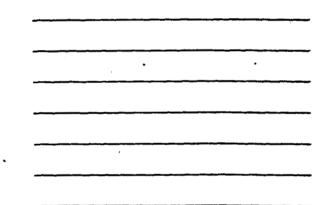
- Law Enforcement Stress prevalence. incidence, and correlates
- Project SHIELDS Data
  - Psychological, physical, and behavioral outcomes related to police stress
- Public Health Implications of Police Stress
  - Economic and organizational implications

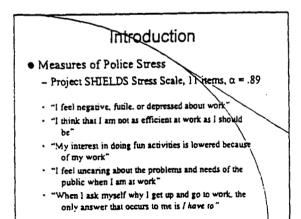


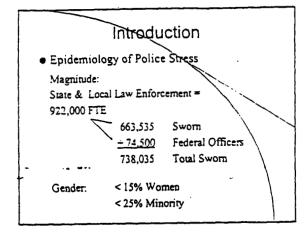
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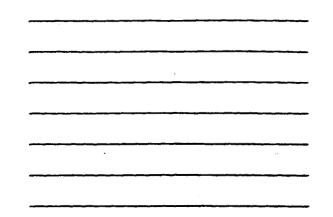








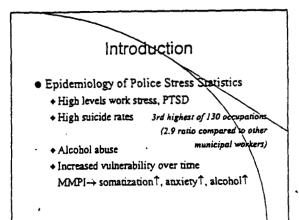


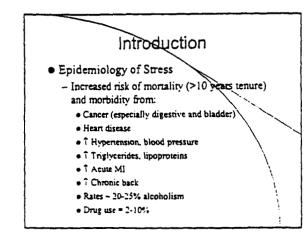


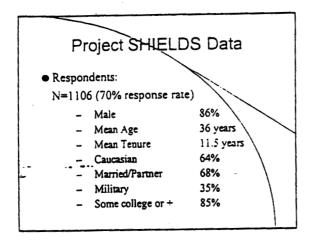
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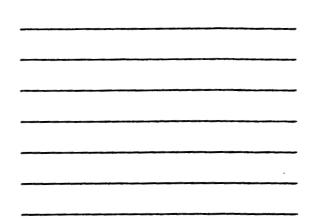
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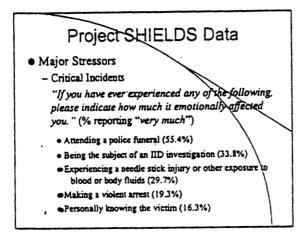






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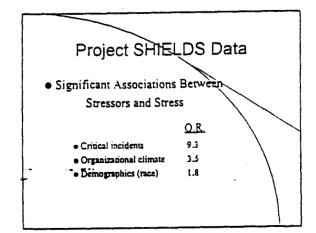
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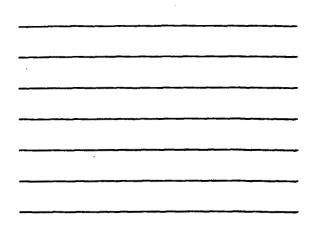


### Project SHIELDS Data

### Major Stressors

- Organizational & Job Related (% reporting "agree")
  - I have had to make split second decisions on the street that could have had serious consequences (88:2%)
  - Some police officers would put their work ahead of anything - including their families (72.9%)
  - Media reports of alleged police wrong-doing are biased against us (66.9%)
  - •The administration does not support officers who are in trouble (66.2%)
  - There is not enough time at the beginning or end of the day for my chores at home (58.3%)



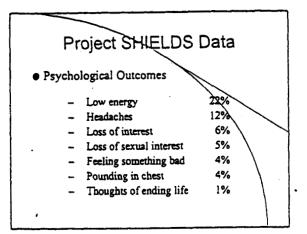


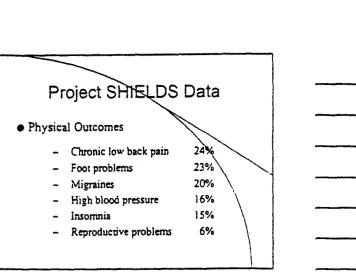
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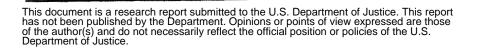
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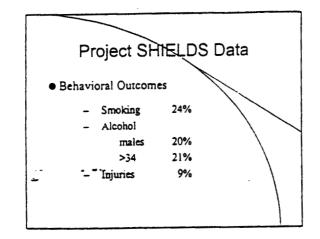
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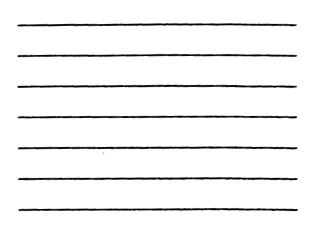


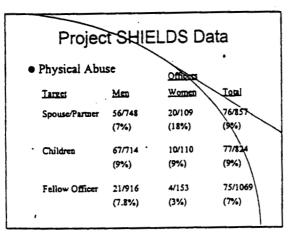


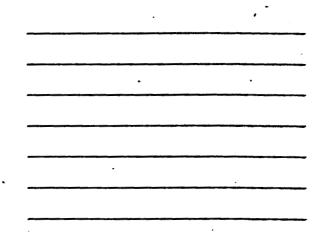


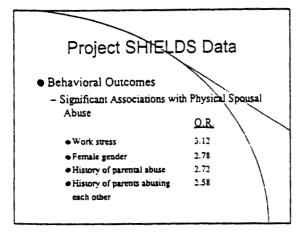
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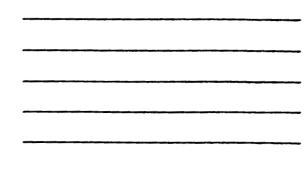


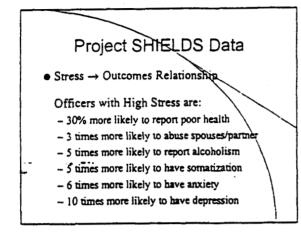


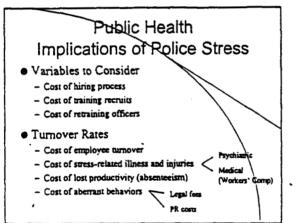


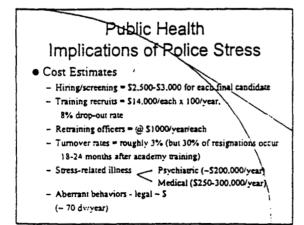


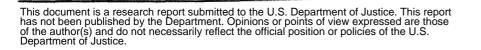






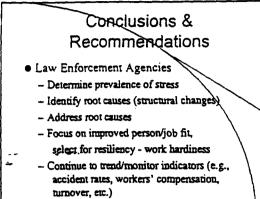






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#### November, 1998. Ivalional Center for Women and Policing, Third Annual Conference, Las Vegas, NV

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## **Police Family Values**

Early Detection/Intervention Programs to Identify Abusive Officers

by



Robyn R.M. Gershon, MHS, DrPH 615 N. Wolfe Street Baltimore, MD 21205 (410) 955-3046 (410) 955-0617 fax rgershon@jhsph.edu

### Study Collaborators

Colonel Margaret Patten Christine Karkashian Antonio Escamilla-Cejudo

Funding provided by NU

#### Discussion Outline

Introduction

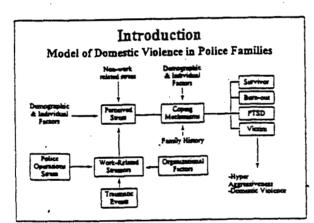
- Background Information
- Model of Domestic Violence in Police Families
  - Risk Factors
- Case/Control Study
  - Outline
  - Screening Tool Development
- Conclusions & Recommendations

#### Introduction Background Information

Extent of the Problem

Workforce

- Data on Domestic Violence in Police Families
  - 1992 Survey of 300 officers 40%
  - · Anecdotal Reports



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## Introduction Characteristics of the "Victim"

- Pessimism
- Shattered core beliefs
- Heuristical thinking
- Numbness
- Desensitization
- Reasserts control

#### Risk Factors for Domestic Violence Psychological • Poor impulse control • Low masculiaity • Dominance issues • Poor self-esteem & ego

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- Intoierance
- Paranoia
- · Passive-aggressive
- tendencies
  - Avoidance patterns
  - Anti-social personality
  - Depressive

## **Risk Factors for Domestic Violence**

Demographic & Individual Factors

- Family history of violence
- Poor communication skills
- Maladaptive coping mechanisms
   Drinking, smoking, drugs, unsafe sex,
  - gambling, risk taking
- Attitudes about spousal abuse
- Stereotypical views about women
- Anger in marriage (marital conflict)

#### **Risk Factors for Domestic Violence**

Attitudes About Spousal Abuse

- Wife beating is justified
- Wives gain from beatings

#### Case/Control Study Outline

Sample: 200 cases & 200 controls

#### Analysis:

- Significant differences in the two groups
   IID file
  - Personnel file Demographics

+ MMPI

• Patterns of abuse

#### Case Control Study Screening Tool

- Questionnaire
  - Surrogate measures (e.g., attitudes)
  - + Stress & coping
  - + Family history
  - + Personality & psychological traits
- Standard Psychological Assessments
   MMPI
- Intensive Interview
- Family members, girlfriends, spouses, etc.

#### Conclusions & Recommendations

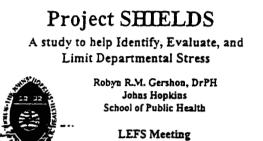
Future Research Questions

- Effectiveness of these screening tools
- Targeted interventions

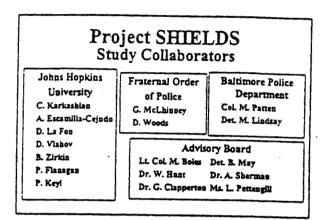
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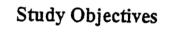


November 23 - 24, 1998



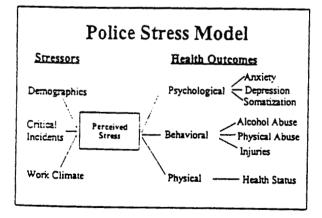
## Study Objectives

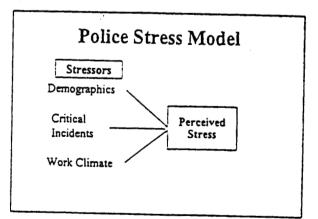
- •Phase One Survey
  - Prevalence, correlates, and consequences of police stress
  - Relationship between police stress and cross-over stress in police spouses
  - Relationship between police stress and domestic violence in police families



- •Phase Two Interventional
  - Participatory action research format
  - TQM Teams: to identify interventions <u>based on the data</u>

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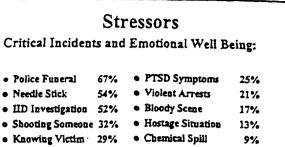


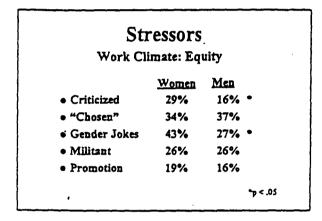


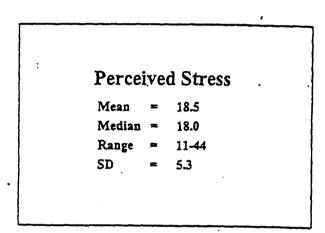
#### Demographics N= 1103 (68% Response Rate)

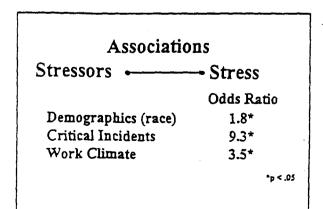
- Male 85%
- Average Age: 36 years
- Average Tenure: 11.5 years
- Caucasian 64%
- Married/Partnered 68%
   Military Background 35%
- High School 15% Some College 55% College Grad 30%

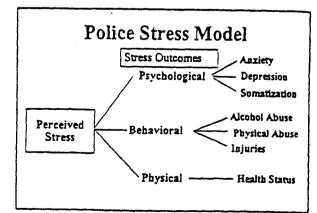
• Education:





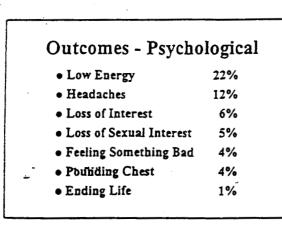




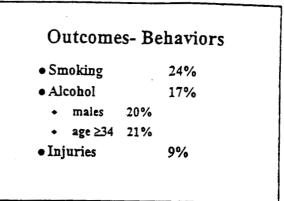


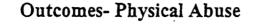
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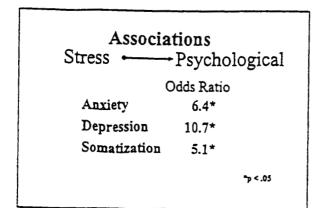


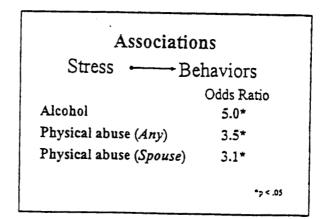
9%

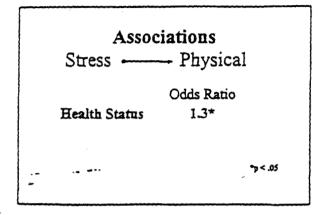
9%

- Fellow Officer 7%
- Children
- Spouse
- Parents (each other) 21%
- Parents (when child) 33%

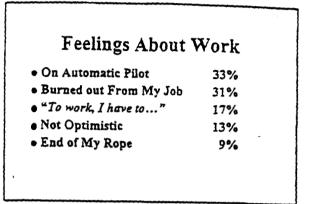
Outcomes- Phys	ical
Chronic Lower Back Pain	35%
<ul> <li>Foot Ailment</li> </ul>	23%
• Migraines	20%
<ul> <li>High Blood Pressure</li> </ul>	16%
• Insomnia	15%
<ul> <li>Liver Disease</li> </ul>	20%
• Reproductive Problems	6%
<ul> <li>Diabetes</li> </ul>	3%
• Heart Disease	3%

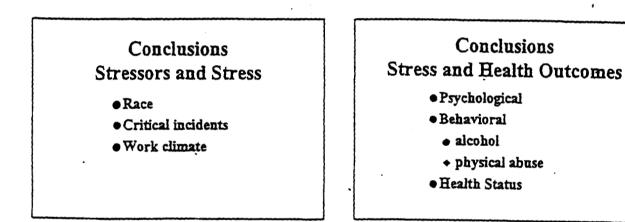






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## Recommendations

- 1. Future analysis: coping
- 2. TQM

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3. Interventions

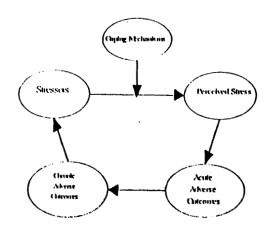
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## STUDY PURPOSE

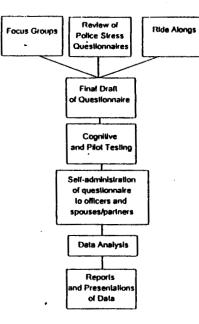
In October of 1997, Project SHIELDS, a 4 phase (questionnaire development, questionnaire administration, analyses, TQM), 18 month study, was funded to meet two <u>specific aims</u>:

- To apply epidemiological tools to assess and characterize police stress and its relationship with domestic violence in police families.
- To develop risk reduction strategies based on the recommendations of Total Quality Management Teams using a participatory action research model.

## THEORETICAL MODEL



Questionnaire Development and Administration



## STUDY RESULTS (N=1106 officers)

#### Stressors:

critical incidents and organizational climate

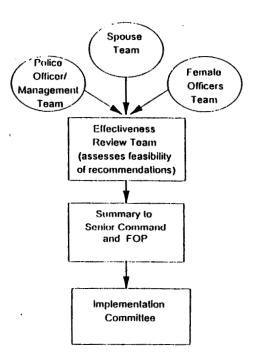
#### Significant Adverse Outcomes:

- Psychological (19% thoughts of ending their life)
- Physical (health problems)
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TQM Phase

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In early 1999, three different Total Quality teams of officers and management were formed.



The teams worked with researchers using a participatory action research approach to identify potential interventions based on the data.

#### TQM Results

#### roblem: Critical Incidents

- caling with unavoidable stressful situations.
  - A. Attending Police Funerals
    - Discuss risk at academy level.
      - Mandatory debriefing
    - Increase chaplaincy program.
  - B. Bloody Crime Scene
    - Vulnerability, risk perception, and preparation training at academy level.
  - C. Needlestick Injuries
    - Departmental BBP and PEP polices and education
  - D. Perceived Lack of Support for officers in trouble.
    - Clear policies and procedures on management of infractions.
    - Mandatory management training for all supervising personnel.
    - Access recent retirees

#### Problem: Lessen "felt stress" and improve coping

#### <u>skilis.</u>

A. Lack of physical and mental fitness.

- 1. Conduct mandatory annual physical and psychological evaluations.
- 2. Support gym attendance by allowing work outs during work time.
- 3. Support a public safety gym and fitness program that officers can attend.
- 4. Sponsor a wellness program with trainers, nutrition counselors, etc.

5. Support confidentiality.

Have a private waiting area for any counseling.

#### 8. Lack of advancement

- 1. Install computers at FOP and provide linkage for distance learning.
- 2. Start a management leadership and mentorship program.

2. Paperwork Burden

- 1. Install computers in all districts and cars, laptops, paid for by corporate sponsors.
- D. Overall Status of Policing
  - 1. Have the FOP and command work collaboratively.
  - Examine the status of female police officers and assign this to a high level commission. All aspects must be considered (c.g., recruitment, training, clothing requirements, etc.)and that pertain to female police.

#### Problem: Targeting my adverse stress-related

#### <u>outcomes</u>

- A. Alcoholism
  - 1. The FOP should sponsor an AA group for officers only.
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  - 1. Support special "police-level driving" school at academy.
  - 2. Officers involved in accidents should be required to take this program and periodically a random number of officers should also be assigned for retraining.
- C. Spousal Abuse
  - 1. Support and encourage effective communication and partner commitment. There are several ways to do this.
- Send trained spouses to the academy discuss how policing affects the marriage and family.
- Have trained "successful" seasoned police couples serve as mentors to new police couples.
- Sponsor police couples only "Marriage Encounter" weekends.
- Sponsor more couples activities, actively encourage spouse participation in social events, parties, picnics, coffee hours, prayer sessions, pre-nuptial training, couples counseling, marriage therapy, communication skills classes, parenting workshops, ctc. Make the spouses more a part of the police officers' work life.
- Encourage the women's auxiliary group. They need to conduct a needs assessment to find out ways to involve partners and strengthen families (e.g., daycare vouchers, child care sharing for vacations support groups for families with teens, eldercare issues, upcoming retirements, etc.)
- Support for non-traditional partnerships and other family members is needed (e.g., for girlfriend/boyfriend, parents, teens, etc.)
- Provide information to police families via FOP regarding numerous police web sites.
  - 2. Give officers cell phones, beepers, so they can be reached by families at all times.
  - 3. Limit the amount of overtime. Conduct financial planning and management for new recruits (mandatory) and sponsor programs.
  - 4. Sponsor retirement planning programs.
  - 5. Ensure that BPD policies on spousal abuse are
- clear and strictly enforced (zero tolerance)! 6: Sponsor a m health hot line (24 hour).



## Project Shields

A Collaborative Project Between

The Johns Hopkins University School of Public Health, The Baltimore Police Departmen & The Fraternal Order of Police

National Institute of Justice Corrections and Law Enforcement Family Support Meeting

February 2000 Funding provided by NIJ

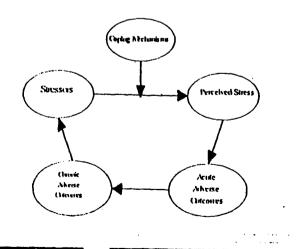
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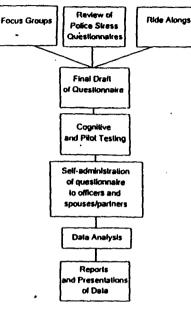
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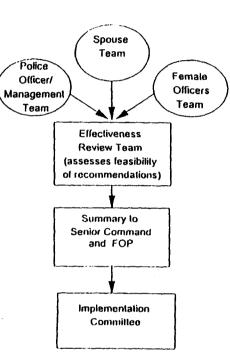
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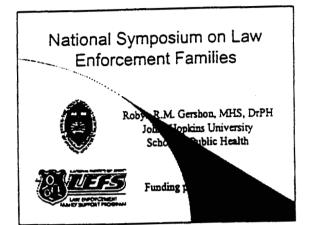
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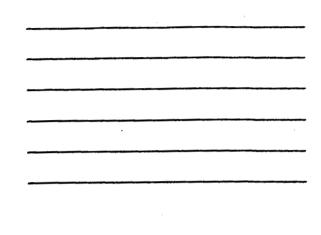
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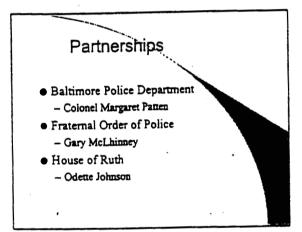
February 2000 Funding provided by NIJ

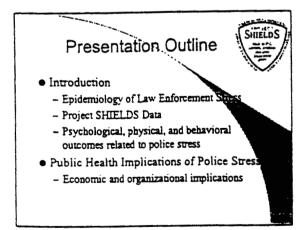
National Symposium on Law Enforcement Families, San Antionio, TX

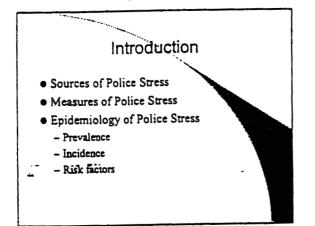


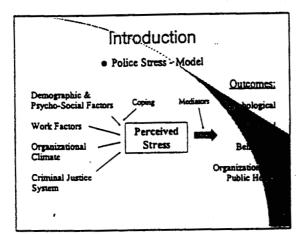


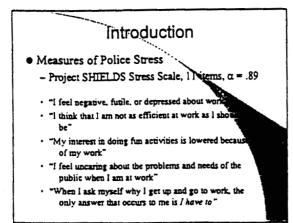
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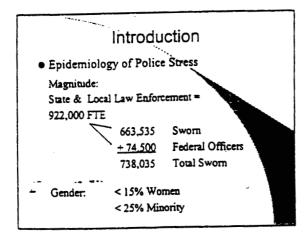


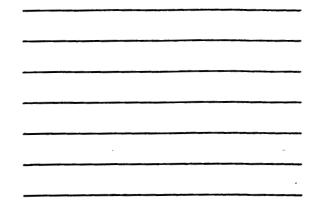
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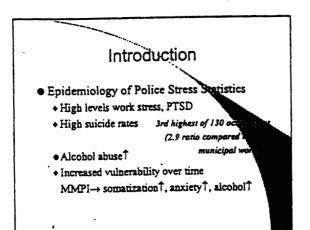
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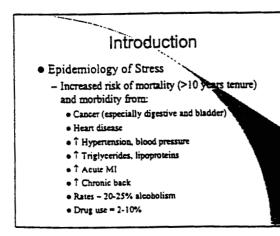
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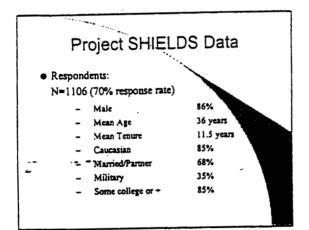


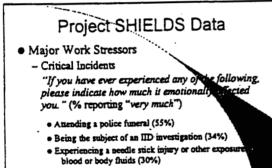


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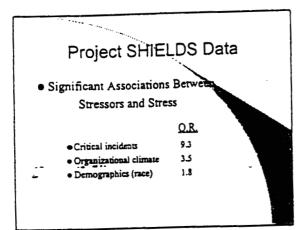


• Making a violent arrest (19%) • Personally knowing the victim (16%) i

## Project SHIELDS Data

#### Major Stressors

- Organizational & Job Related (%reporting "agree")
   I have had to make split second decisions on the street that could have had serious consequence (18%)
   Police work must come before anything including their
  - families (72%) · Media reports of alleged police wrong-doing are . against us (67%)
  - . The administration does not support officers who ar trouble (66%)
  - There is not enough time at the beginning or end of th day for my chores at home (58%)

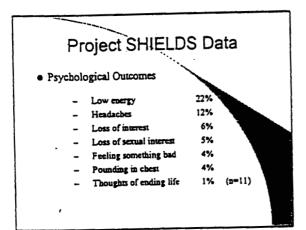


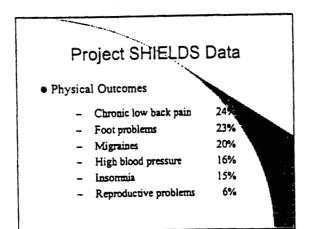
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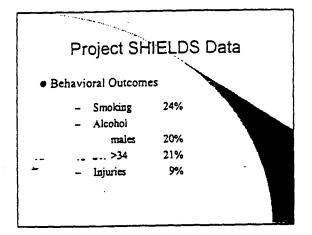
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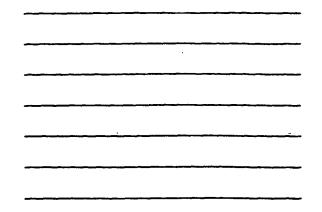
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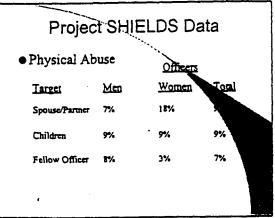


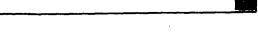


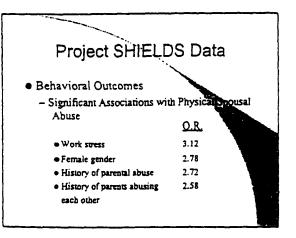


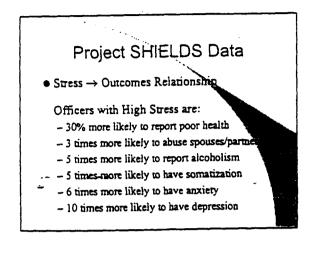


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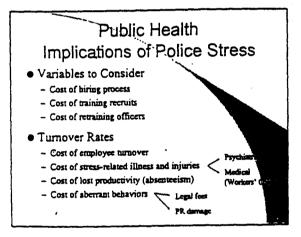


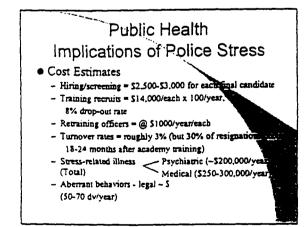






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# Conclusions & Recommendations

• Law Enforcement Agencies

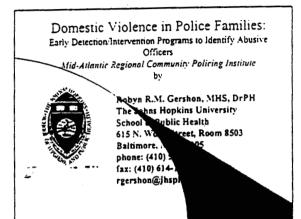
- Determine prevalence of stress
- Identify root causes (structural changes)
- Address root causes
- Involve frontine and families in prevention sur
- Focus on improved person/job fit
- Continue to trend/monitor indicators (e.g., accident rates, workers' compensation, nurnover, etc.)

#### September, 1999 Mid-Atlantic Regional Community Policing Institute, Baltimore, MD

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## Partnerships

- Baltimore Police Department Colonel Margaret Patten
- Fraternal Order of Police Gary McLhinney
- House of Ruth Odette Johnson

#### **Discussion** Outline

Introduction

- Background information
- Models of Domestic Violence in Police Families
- Risk Factors
- Project SHIELDS Data
  - Outline
  - Results
- Case-Control of Study of Police Officers Accused of Domestic Violence - Results
- · Conclusions and Recommendations

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#### Introduction Background Information

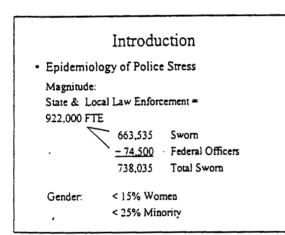
#### Extent of the Problem

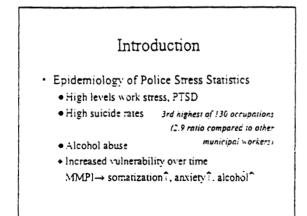
Workforce

------ • Data on Domestic Violence in Police Families

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- 1992 survey of 300 officers 40%
  - Anecdotal data

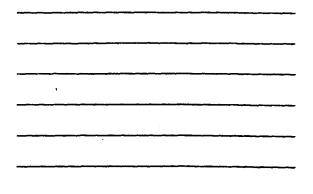




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		والمراقعة والمحارة ومعارية والمستحي والمتحد ويستعين والمتحد والمحادي والمتعاوين
Model of Don	Introdu nestic Viole	lCtiON nce in Police Families
	Non-work related stress	Demographic & Individual Factors
Demographic & Individual Factors 	Perceived Stress Work-Related Stressors Critical Incidents	Farminy Homeny Predator



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#### Introduction Characteristics of the "Predator"

- Pessimism
- · Shattered core beliefs
- · Heuristical thinking-
- Numbness
- Desensitization
- Reasserts control

## Project SHIELDS

- Measures of Police Stress
  - Project SHIELDS Stress Scale, 11 items,  $\alpha = .89$
  - · "I feel negative, futile, or depressed about work"
  - "I think that I am not as efficient at work as I should be"
  - "My interest in doing fun activities is lowered because of my work"
  - "I feel uncaring about the problems and needs of the public when I am at work"
  - "When I ask myself why I get up and go to work, the only answer that occurs to me is I have to"

Project SHIEL	DS Data
<ul> <li>Respondents: N=1106 (70% response ra</li> </ul>	te)
- Male	S6%
– Mean Age	36 years
- Mean Tenure	11.5 years
- Caucasian	64%
Married/Partner	68%
- Military	35%
<ul> <li>Some college or +</li> </ul>	85%

## Project SHIELDS Data

#### • Major Stressors

#### - Critical Incidents

"If you have ever experienced any of the following, please indicate how much it emotionally affected you." (% reporting "very much")

• Attending a police funeral (55.4%)

- · Being the subject of an IID investigation (33.8%)
- Experiencing a needle stick injury or other exposure to blood or body fluids (29.7%)
- Making a violent arrest (19.3%)
- + Personally knowing the victim (16.3%)

## Project SHIELDS Data

Significant Associations Between
 Stressors and Stress

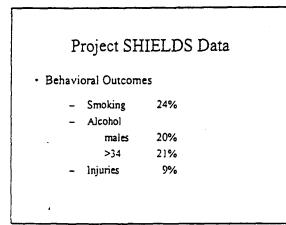
#### <u>Q.R.</u> 9.3

- Organizational climate 3.5
- Demographics (race) 1.8

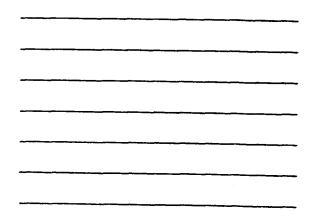
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	Project SHIELDS	S Data
• Psyc	hological Outcomes	
	- Low energy	22%
	- Headaches	12%
	<ul> <li>Loss of interest</li> </ul>	6%
	- Loss of sexual interest	5%
	- Feeling something bad	4%
 	- Pounding in chest	4%
	- Thoughts of ending life	1%
	_	



Projec	et SHIE	ELDS Da	ita
• Physical Abu	ise	Officers	
Tarve:	Men	Women	Total
Spouse/Parmer	56/748	20/109	76.557
	(7%)	(18%)	(9%)
Children	67:**14	10110	77 824
	(9%)	(9%)	(9%)
Fellow Officer	21/916	4/153	75/1069
	(7.8%)	(3%)	(7%)



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	Project SHIELI	DS Data
•	Behavioral Outcomes	
	- Significant Associations wi	th Physical Spousal
		<u>O.R.</u>
	<ul> <li>Work stress</li> </ul>	3.12
	Female gender	2.78
 	<ul> <li>History of parental abuse</li> </ul>	2.72
	<ul> <li>History of parents abusing each other</li> </ul>	2.58

## Project SHIELDS Data

• Stress → Outcomes Relationship

Officers with High Stress are:

- 30% more likely to report poor health

- 3 times more likely to abuse spouses/partner

- 5 times more likely to report alcoholism

- 5 times more likely to have somatization

- 6 times more likely to have anxiety

- 10 times more likely to have depression

#### Case Control Study Overview

· Methodology

- Known abusers v.s. random controls

Record review

- Demographics

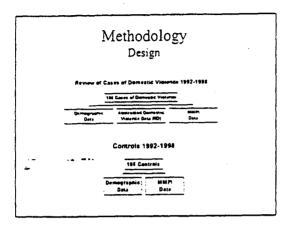
- MMPI scores

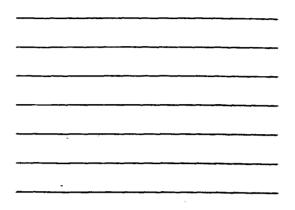
- Are there significant demographic differences between cases and controls?
- Are there significant MMPI score differences between cases and controls?

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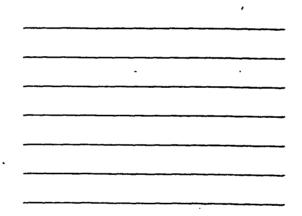
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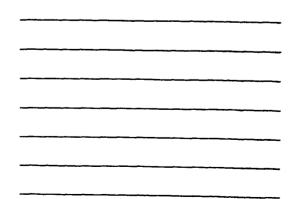


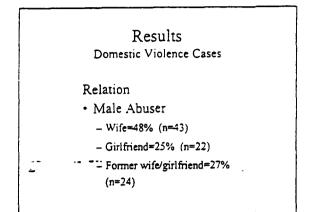


	Results		
	Demograph		
		Cases (N = 106)	Controls (N = 106
Gender (90)	Male	84% (n=89)	86 M
•	Fenale	16% (n=17)	14 F (15)
Age	Mean = 33 years		
Race	African American	n = 58	n = 28
	Caucasian	n = 29	n = 54
	Other	n = 1	<u>n=6</u>



	Result Demograpi		
		Cases	Control
Years on the Force	Mean	8.5	6.1
Unit	Patrol	73	72
	Investigation	15	14
	Administration 8		2
	Other	9	17







#### Relation

- Female Abuser
  - Husband=12% (n=2)
  - Boyfriend=35% (n=6)
  - Former husband/boyfriend=18% (n=3)
  - Girlfriend/parmer=35% (n=6)

#### Results Domestic Violence Cases

#### Allegations

- 68% Actual assault
- 9% Threat
- 3% Harassment
- 20% Other

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#### Results Domestic Violence Cases

Final Depositions
61% Closed, unsupported, no testimony
17% Closed, lack of physical evidence
16% Pending
5% Sustained/corroborated

1% Not sustained

-

#### Results Domestic Violence Cases

Domestic Violence Cases

Department Actions Taken

17% Of accused were arrested

26% Had a protection order

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- 64% Were suspended from duty
- $\geq$  80% Cases closed

#### Results Domestic Violence Cases

Domestic Violence Case

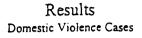
Prior History 23% Had one prior

2% Had two or three priors

3% Had > three priors

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Assignment

50% Of all domestic violence cases came from four districts

The four districts also had the four highest violent crime rates.

### Results

#### MMPI

- No Significant Differences on Ten Clinical Scales & Three Validity Scales
- Trends in Domestic Violence Cases:
  - $\uparrow \uparrow$  depression
  - $\uparrow$  social introversion
  - $\uparrow$  masculine/feminine
  - 🛧 hypomania

#### Conclusions

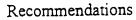
- Some demographic differences noted
- Police department took action, victim withdrew charge
- · Most abusers had a prior history
- Abusers come from high risk districts
- MMPI cannot differentiate at least not as a screening tool

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- Develop a better screening tool ("Resiliency")
- Screen for coping, attitudes, history
- Probe history more thoroughly
- Target high risk districts for interventions, rotate officers

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## Recommendations

 Develop support for victims of domestic violence - support must be tangible

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- health care benefits
- safe house
- group support
- police department liaison