Fear of crime among the elderly:
Beyond simplifying paradoxes

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Are the Elderly Less Often Victims of Criminality? More Than One Answer to a Simple Question

The well-established finding that older persons are relatively seldom the victims of crime can be confirmed for the FRG. Just recently, Ahlf (1994) quoted official crime statistics which generally support this trend (see also Kawelowski, 1995).\textsuperscript{4} At first hand, one could suspect that this pattern only reflects a lower readiness of the elderly to report criminal victimization to the police. However, the KFN-survey reveals that to the contrary older people tend to call the police more often than younger ones (Wetzels et al., 1995, S. 89ff.). Accordingly, the victim-survey data – in line with the official statistics – clearly show that the prevalence rates for just about all criminal acts involving personal victims sink with increasing age: Person over 60 years of age are due to their own reports less likely victimized than younger persons. Surprisingly, this holds not only for „contact crimes“ such as robber (≥ 60J.: 1,1\%, < 60 J.: 3,8\%) or violence (≥ 60J.: 1,5\%, < 60 J.: 13\%), but also for theft (≥ 60J.:12,4\%, < 60 J.: 21,3\%) and even for breaking and entering (≥ 60J.: 9\%, < 60 J.: 10,4\%); these data refer to prevalence rates in 1991 for the old german countries; Wetzels et al., 1995, p. 61).

However, these findings, even if they can be considered to be sufficiently well-founded, may underestimate the elderly’s experience with criminal victimization. In particular, considering the actual victimization risk in isolation does not account for the fact that older individuals, over the course of their lives, have had a greater opportunity to experience victimization. The risk of ever having become the victim of criminal activity increases proportionally with age: the longer a person lives, the greater ceteris paribus the probability that s/he will experience a certain event. Thus, for example, 80-year-olds report twice as many victimization incidents involving breaking and entering than 20-year-olds. A similar pattern of findings has been observed for other frightening crimes (serious physical assault, robbery, personal threat, purse snatching; cf. Greve, Hosser & Wetzels, 1996). The question whether a person belongs to the victim or to the non-victim-group depends obviously on the scope of time regarded (see also Sessar, 1990). Thus, findings that show the elderly are seldom the victims of actual crime yet nevertheless exhibit a more marked fear of crime must be viewed in the proper perspective. The more older a person is, the more likely s/he is an expert of criminality in terms of personal experience with criminal victimization.

Furthermore, the discussion within criminological literature has chiefly concentrated on anonymous crimes that generally occur in public places. It is rather important, however, to note that this perspective neglects the violence and victimization that occur in close social relationships. Although victimization experiences involving close personal acquaintances do not (as a rule)

\textsuperscript{4} The one exception is the subcategory of purse snatching, which at 55.6\% percent affects more older women than younger ones. However, recent data suggest reducing trends even with respect to this category of crime (Pfeiffer, Brettfeld & Delzer, 1997).
Fear of Crime Among the Elderly: Beyond Simplifying Paradoxes

More than two decades ago, Clemente and Kleiman (1976, p. 207) claimed that "... it is reasonable to argue that for older people fear of crime is even more of a problem than crime itself." Though it seems to be the "state-of-the-art"-perspective until today (cf. Hale, 1996, p. 100ff.), this was not the starting point of the debate. To the contrary, the discussion on the impact of criminality on older persons started in the early seventies with the assumption that the elderly are "suitable targets" for criminal offenders (cf. Brillon, 1987; Cutler, 1987). At first hand it seems to be very plausible that a "reasoning criminal" (Cornish & Clarke, 1986) is more likely to search for a victim that is unable to defend himself, unable to escape, but at the same time is a relatively promising victim in terms of material goods and property (e.g., compared to children). However, it soon became clear that this belief does not appear to be based upon fact: official statistics on crime as well as large-scale victimization surveys have shown that with respect to almost every kind of criminality, older people are less often victimized than younger ones (e.g., Cook, 1976; Hirschel & Rubin, 1982; Mawby, 1982; Wetzel et al., 1995; among many others). Hence, from a statistical point of view, they carry the lowest risk of victimization.

Surprisingly, the elderly seem to be unaware of their safety: numerous studies have shown that older people are not only concerned with criminality as a threat to society in general (cf. Sacco, 1993), but personally fear criminal victimization (starting with Clemente & Kleiman, 1976, or Sundeen & Mathieu, 1976; for a recent overview Hale, 1996, p. 100ff.; the difference between concern and fear was already discussed by Furstenberg, 1971). For more than two decades, the criminological literature has been full of alarming reports that older people suffer from fear of crime more than any other age group (for a recent example, see e.g. Parker & Ray, 1990). Consequently, as indicated in Clemente and Kleimans phrase cited above, criminologists have tended shift focus from crime against older people toward the fear of crime among the elderly. Recently Rosenbaum and Heath (1990, p. 222) declared even the "war on fear of crime" instead of the "war on crime".

Today, the often cited slogan that the elderly are "prisoners of fear" seems to be widely accepted in the literature (Fattah & Sacco, 1989, p. 212ff; McCoy et al., 1996, p. 193ff.) and

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2 As the headline of Time magazine from 1976 claims (see Fattah, 1993b, p. 61, FN 8; Finley, 1983, p. 24; Skogan, 1981b, p. 29; Yin, 1980, p. 498, 1982, p. 240, 1985, p. 69; similar slogans are cited by McCoy et al., 1996, p. 192). It seems worth noting that beyond the objections concerning its empirical and theoretical
this so-called "victimization-fear-paradox" attained the status of common knowledge among criminologists (cf. Hale, 1996). Although this pattern is not a "paradox" in a strict sense, the combination of highest scores on fear and lowest (statistical) risk of criminal victimization for the elderly seems indeed to be a rather inconsistent pattern of results. However, attempts to explain this pattern have not always been very convincing. Despite various critical analyses (critical overviews are provided by Eve, 1985; Hale, 1996; LaGrange & Ferraro, 1987; a good example of a critical and differentiated empirical study was conducted by Warr, 1984), it is probably not unfair to say that the "paradox" takes center stage in the discussion not only as an empirically confirmed finding, but also as still unsolved puzzle which, in many particulars, requires further explanation.

However, despite a large amount of literature (Aday, 1988) the issue of criminality and aging and in particular the emotional and cognitive reactions of the elderly towards criminal threats and victimization are seldom discussed from a geronto-psychological point of view. Usually, older persons as victims of crime as well as the perceptions of crime among the elderly are just mentioned marginally in pertinent gerontological textbooks (e.g., Cutler, 1987; Doyle, 1990). Quite possibly, this is why a second "paradox" has been overlooked in the present discussion: if a person -- adequately or inadequately -- does in fact exhibit a great fear of criminality, then this should have a negative effect upon his or her general sense of well-being and life quality (Garofalo & Laub, 1978, p. 251; Lawton & Yaffe, 1980, p. 775; Ward, LaGlory & Sherman, 1986, p. 336f; Yin, 1982). However -- contrary to what one might expect -- recent gerontological findings show that general well-being is remarkably stable up to old age; this holds for measures of self-esteem as well as for indices of well-being and depression (cf. Brandstädter, Wentura & Greve, 1993). There is much support for the notion that older persons generally experience a fair amount of success in coping with critical life events as well as with age-related threats, losses, and deficits (e.g. Baltes & Baltes, 1990; Brandstädter & Greve, 1994; Staudinger, Marsiske & Baltes, 1995). Consequently, one should "paradoxically" conclude that the high fear of crime among the elderly doesn't have a considerable impact on their life. Since this also is not very plausible, a more precise look on both sides of the "fear-victimization paradox" appears promising.

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3 According to the literature, the phrase 'prisoners of fear' is inappropriate and even cynical because originally this is the title of an impressive book by Ella Lingens (1948) about her memories as prisoner of the Nazi concentration camp at Auschwitz.
The present investigation attempts to analyze criminological findings with respect to this "paradox" from a gerontological and developmental psychological perspective. The empirical arguments presented in the following rest upon data from a German representative victimization survey conducted in 1992 by the Criminological Research Institute of Lower Saxony (KFN) at the request of the Federal Ministry for Family, Seniors, Women, and Youth. In order to obtain nationally representative data on the criminal victimization and fear of crime of older vs. younger persons in the Federal Republic of Germany (FRG) a representative sample of 15,771 subjects from both the old and new German states were assessed in personal interviews (for description of the sample, the assessment procedure and central results see e.g. Bilsky & Wetzels, 1994; Wetzels et al., 1995; assessment details concerning the data reported here are discussed below). The interview was essentially a retrospective, comprehensive assessment of personal experiences and consequences of victimization. In addition, numerous other criminological aspects (e.g. registering a criminal charge, attitudes toward the severity of punishment), and a scarce collection of psychological aspects (e.g. subjective well-being, perceived social support) were asked.

However, three remarks on possible restrictions of the empirical arguments presented in the following seem to be appropriate in advance. First, the selection of the variables and their respective operationalization in the KFN-survey was not planned from a developmental or gerontological point of view. Accordingly, various aspects that seem to be interesting or even necessary from a geronto-psychological perspective are simply not available for empirical analyses (e.g. health status of the participants, activities of daily living), and the assessment of the variables available is in some cases not as comprehensive and careful as one should demand from a purely psychological point of view. However, the richness of the available information in this sample (in particular concerning criminal victimization and fear of crime) seems to be worth the effort of re-analyzing criminological data from a geronto-psychological perspective. One consequence of this post-hoc-perspective, however, is that the "story" to be told here rules the structure of this paper. Therefore, since its (hi)story is not a typical deductive one, its structure deviates somewhat from the usual sequence (introduction - method - subjects - results - discussion). Second, the analyses presented in the following sections are based upon portions of the total sample. Due to economic restrictions, the study was conducted in a modular fashion, i.e., various representative portions of the sample were presented with various combinations of parts of the master-questionnaire. Thus, the sample size (and, consequently, degrees of freedom) is variable for different analyses and in most cases too small (or even zero) for multivariate analyses, due to the lacking of overlaps between some parts of the questionnaires for different subsamples. Third, the findings presented in the following sections are based exclusively on cross-sectional data. Consequently, since personal tendencies to exhibit -- or report -- fear of crime and violence may also depend on the person's biographical and historical background, the observed differences between older and younger individuals can only interpreted with reservation as developmental in nature.
appear in official statistics, such crimes are both quantitatively and qualitatively important problems for the elderly (Glendenning, 1993; Pillemer, 1993; Pillemer & Finkelhor, 1988; Pillemer & Suitor, 1992; Pillemer & Wolf, 1986; Wolf, 1992; for FRG: Wetzels et al., 1995; Wetzels & Greve, 1996). In fact, the relative risk of victimization by a family member is higher for older individuals than for younger ones; the proportion of experiences of violence within the family related to the total of experiences of violence increases with age (Greve, Hosser & Wetzels, 1996). However, the psychological stress and emotional consequences of such experiences may differ in many important respects from the consequences of anonymous criminality; this is particularly plausible of fear reactions.

2 Do Older Individuals Exhibit More Fear of Crime? Different Answers to a Difficult Question

If the discussion regarding whether the elderly are truly less often the victims of criminality requires more differentiation, then this is all the more true for the other side of the fear-victimization paradox. At a first glance criminological research on victimization since the early seventies portrays this side of the paradox ("elderly people show more fear than younger ones") as a clearly replicable finding. A recent review of the literature (Hale, 1996), however, underscores that these studies are hopelessly mixed with respect to their assessment methods, their methods of analyzing the data and their theoretical background (if there is any at all). Accordingly, although most studies report increasing fear with age, some data contradict this claim. For example, Ortega and Myles (1987), despite the comprehensiveness of their sampling procedure, found no direct effect of age on fear of crime, and Smith and Hill (1991, p. 228) found a correlation of \( r = .05 \). Gomme (1988, p. 70) even reports a small negative correlation \( r = -.08 \); see also Ferraro & LaGrange, 1992; Krahn & Kennedy, 1985, p. 704). Somewhat more pronounced relationships were found, e.g., by Baker et al. (1983, p. 328), Hindelang, Gottfredson and Garofalo (1978, p. 193), Lewis and Salem (1986, p. 54), Maxfield (1984, p. 242), Mullen and Donnermeyer (1985, p. 239) and Warr (1990; for additional supporting results see section 2.1). This heterogeneous pattern of results proves that a more differentiated discussion of the concept 'fear of crime' is required in terms of method, content, and theory (Ferraro & LaGrange, 1987). As will become more clear in the following sections, depending upon the theory and methodology (operationalization and assessment procedure) applied, the question of whether the elderly exhibit more fear of crime than their younger counterparts can be answered in many different ways and with surprisingly divergent results.
2.1 Fear Increases with Age: The Standard Answer

The first answer to this question might be called the "standard" answer. It has been cited again and again in over 30 years of criminological literature and has provided the foundation for the fear-victimization paradox. In these studies, fear of crime is assessed using the so-called standard question from the American National Crime Survey. The question reads: "How safe do you feel or would you feel if you were here in this area at night, outside, and alone?" (the answer alternatives: very secure -- fairly secure -- fairly insecure -- very insecure; the exact formulation of the question varies somewhat between different studies; for an overview see Ferraro & LaGrange, 1987; Hale, 1996). With respect to this measure of fear of crime, the KFN-survey replicates the previous findings quite clearly: fear of crime assessed this way rises with age. A comparison of means over eight age cohorts (Coh I: < 20 years, Coh II: 20-29, Coh III: 30-39, Coh IV: 40-49, Coh V: 50-59, Coh VI: 60-69, Coh VII: 70-79, Coh VIII: 80+) indicated a significant main effect of age ($F[7;8870] = 34.17$, $p < .001$; cf. figure. 3, below) and also the correlation with age, though not very high, is positive and statistically significant ($r = .15$, $p < .001$). This replication of previous findings is less interesting in terms of confirming an established fact as it is in demonstrating that the further findings and evaluations reported in this paper are based upon the same empirical foundations employed by those studies which describe the fear-victimization paradox.

In itself, the standard assessment of fear of crime conjures up a host of difficulties (Boers, 1991; Eve, 1985; LaGrange & Ferraro, 1987). One first obvious objection is, as Ferraro and LaGrange (1987, p. 77) ironically remark, that the standard formulation does not make exclusive reference to criminality as the object of fear -- for example, the item can be interpreted to include fear of nighttime accidents (Wetzel et al., 1995, p. 207). Second, from a methodological point of view the standard-question as a single-item measure is rather noisy (Taylor & Hale, 1986, p. 158) and tends to overemphasize the variation in responses.

More pertinent critique of the standard assessment is the doubtful validity of a procedure centered only upon specific kinds of criminality (and the fear of such). This measure ignores not only the issue of violence in close personal relationships mentioned above, but also, for example, the issue of public criminality which occurs within buildings including one's own apartment (breaking and entering is certainly one of the most important and threatening of crimes; Lindsey, 1991, p. 55). Several studies have shown that the original findings cannot be replicated when the operationalization of the standard question is slightly altered (e.g., Ferraro

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5 In fact, the majority of the studies in this research area are based on or referring to this way of measuring 'fear of crime' (e.g. Arnold, 1991, p. 97f.; Baldassare, 1986; Baker et al., 1983; Balkin, 1979; Box, Hale & Andrews, 1988, p. 343; Clarke, 1984, p. 332; Hindelang, Gottfredson & Garofalo, 1978, p. 175ff.; Kennedy & Silverman, 1985, p. 246; Lebowitz, 1975; Lewis & Salem, 1986, p. 45; McCoy et al., 1996, p. 196f.; Sessar, 1990, p. 126; Sundeen, 1977, p. 14; Toseland, 1982; for an additional overview see Boers, 1991).
& LaGrange, 1992; Lee, 1982, p. 662). To this extent, doubts regarding the validity of the standard question as sound indicator of fear of crime seem to be highly justified.

2.2 The Fear of Elderly Persons Is Not Exceptional: The "Absolute Level of Fear" Answer

The finding that fear of crime increases with age -- even when one puts aside doubts regarding the accuracy of this observation -- need not be particularly portentous or frightening. In fact, on the four-point scale (see above), the mean value for the standard question is 2.38 (SD = 0.86) for the elderly over 60 years of age; this corresponds with the description "fairly secure" (for a similar pattern of results cf. McCoy et al., 1996, p. 199). The value for younger persons is somewhat lower (M = 2.14; SD = 0.80), as reported above, but corresponds to the same description.

Results from a different operationalization of fear of crime underscore this point. In the KFN-survey, the frequency with which persons experience fear with regards to four relevant domains was assessed (theft, violence, robber, and rape; item formulation: „how often do you fear to be beated and injured [etc.]?” alternatives: never - seldom - sometimes - frequent - very frequent). The results show that, in absolute terms, fear of crime was „seldom“ experienced (figure 1). Apparently, fear of crime among the elderly, despite the vast amount of literature on the subject, is not really a grave problem (for a similar viewpoint, see Ferraro & LaGrange, 1992, p. 233; Skogan, 1993, p. 138).

![Diagram]

**Figure 1:** Frequency of fear among older and younger persons (means)
To be sure, even this somewhat more differentiated form of assessment indicates that the elderly have a higher level of fear in three out of four domains (rape was the one exception for obvious reasons). Accordingly, the sum of these four values, when compared between old and young subsamples (division of the sample at the 60-year mark), produced a statistically significant difference in fear of crime \((t = 2.68, p < .01)\). At first glance, this finding contradicts the thesis, that the age-related increase of fear of crime is just an artifact of the (global) standard-item (Ferraro & LaGrange, 1987; Hale, 1996, p. 102). However, this finding again carries with it various restrictions. First, social stereotypes of aging might lead to a reduction of social desirability to avoid the expression of fear for the elderly (Lawton & Yaffe, 1980, p. 776), which would imply that the weak relationship between age and fear of crime found in the present study is even weaker in reality. Second, the finding of a statistically significant difference between older and younger participants mostly results from the deviant scores of very young survey participants (under 20 years of age). As can be viewed in figure 3, the very young participants have, or at least concede lower fear of crime than any other age cohort. Accordingly, an a posteriori comparison of mean values (Duncan’s formula) showed significant group differences only between the oldest (over 70 years old, over 80 years old) and youngest cohorts (under 20 years old). In particular, there is no remarkable increase of fear between forty and fifty on the one hand and sixty or seventy on the other.

Moreover, by slightly altering the partitioning of the sample (into groups < and \(\geq\) 65 years, which is the normative age of retirement in FRG), the observed difference is no longer statistically significant \((t [9104] = 1.78, p = .08)\). Thus, to some extent, the weak statistical effects produced by an arbitrary age limit should not be accorded great significance (for a similar argument, see Fattah & Sacco, 1989). This seems to be worth noting since the division into age groups is heterogeneous (and sometimes unevenly spaced) in the literature (for a brief discussion of this problem see Fattah & Sacco, 1989, p. 2ff.).

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The behavioral perspective. The literature on fear of crime characteristically fails to address the indicative significance of avoidance and protecting behaviors. Usually, these kinds of behaviors are treated as a consequence of fear of crime (e.g., Burt & Katz, 1985; Gates & Rohe, 1987; Gordon & Riger, 1979; Hindelang, Gottfredson, & Garofalo, 1978, p. 200, p. 203ff.; Krahn & Kennedy, 1985, p. 700; Rosenbaum & Heath, 1990, p. 230; Ward, LaGlory & Sherman, 1986). Even authors such as Yin (1985, p. 31), who interpret protecting behaviors as an aspect of fear, "treat" them as consequence (see also Garofalo, 1981; Skogan & Maxfield, 1981, p. 17).

Again, a closer look reveals that fearful behavior is indicative for the presence of fear (Lazarus & Lazarus, 1994, p. 149). One normally sees when another is afraid, and when one doesn't see any traces of fear, claims to the contrary will be mistrusted accordingly. Thus, one could argue that fear expresses itself by fearful or threat-preventing behavior. However, as discussed in the previous section, a conceptual relationship between fear and behavior implies the impossibility of a causal connection. This is illustrated by a look on the reverse side. The very same (visible) behavior, when executed by someone who doesn't feel fear, cannot be aptly termed avoidance behavior (but as, e.g., deceptive); thus, fear is a constitutive condition of this behavior as fearful. Given this argument, it is especially interesting to note that the empirical assessment of fear of crime generally employs behavior-oriented questions (Ferraro & LaGrange, 1987); this applies in particular to the standard question (Hale, 1996). In other fields of research, for example the investigation of fear reactions in primates, such considerations naturally form even the basis for discussion, since primates can't be asked (see e.g. Hebb, 1946). The fewer external signs of fear one perceives in a subject, the less one will believe assertions regarding that person's fear. In sum, the constitutive character of behavioral aspects of must be acknowledged even if one is not willing to subscribe to a strictly behavioristic point of view (see for a similar argument Ortony, Clore & Collins, 1988, e.g. p. 10).

To this extent, behavior and fear are certainly not "quite distinct" as claimed by Skogan and Maxfield (1981, p. 58). Rather, protective or fearful behavior is just another aspect of fear of crime. From this point of view, findings that increased fear is accompanied by a restricted range of behavior (Liska, Sanchirico & Reed, 1988; for an overview Rosenbaum & Heath, 1990, p. 230ff; also Burt & Katz, 1985; Gordon & Riger, 1979; Norton & Courlander, 1982; Rosenfeld, 1981) or that the rate of crime in an neighborhood only predicts precautionary behaviors when fear of crime also comes into play (Krahn & Kennedy, 1985) are not to be seen as contentful empirical results that corroborate hypothetical assumptions, but just prove the assessment procedures employed to be sufficiently valid.

This argument does not imply, however, that behavioral aspects of fear might not "behave" differently from cognitive or affective aspects since they may have partially different (configurations of) causes. Thus, it seems worthwhile to investigate them separately, if one
2.3 Fear Is Not A Central Concern for the Aging Individual: The "Relative Significance of Fear" Answer

Fear of crime among the elderly, even if it does not appear to be very high in absolute terms, is still too high if it has a significant negative impact on their daily lives. One must therefore consider the role that fear of crime plays relative to other worries and fears. The KFN-survey assessed personal feelings of security or threat with respect to two major aspects of criminality (first: theft, robbery, fraud; second: injury resulting from violence) within the context of 15 domains including family conflicts, requirement of intensive care, or loss of a close friend or relative (the question reads: "To what extent do you feel that your personal security is presently threatened by the following events or dangers?"). Results indicate that both younger and older persons show little concern regarding criminality (figure 2).\(^7\)

It is very clear from these data that the older individual's fears center around being dependent, sick, requiring intensive care, or losing a close friend or relative. It becomes evident that older individuals fear criminal victimization just as little as they fear sudden misfortune or war. Concerns regarding criminality are by no means the only nor the most important issue for the elderly (for similar or comparable results see e.g. Brillon, 1987, p. 24; Croake, Myers & Singh, 1988; Yin, 1982, p. 242; cf. also Hale, 1996; for a different pattern of results see e.g. Lindquist & Duke, 1982, p. 116).

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\(^7\) The abscissa in figure 2 indicates the mean value of the aggregated score of personal threat over all 15 domains calculated for the whole sample. Since this mean threat score for the older subgroup is slightly higher than the mean score for the younger subgroup, the relatively low ranking of fear of crime among the elderly is in this figure even somewhat underemphasized: concerns regarding criminality sink further below average the further it travels towards the right.
Figure 2: Relative threat of criminality in comparison to other typical concerns of older and younger individuals (means; abscissa at general mean)
2.4 Various Operationalizations Produce Various Results: The "Different Methods of Measurement" Answer

Each of the previous sections have implicitly touched upon the central problem of the entire debate on fear of crime. Any answer to the question regarding the extent of fear of crime depends greatly upon what one means when one speaks of "fear of crime" and how this concept is empirically assessed. Unfortunately, as mentioned above, research endeavors which show an age-related increase in fear do not apply consistent measures. In particular, the assessment of fear of crime is seldom guided by a specific theory. Yet upon closer examination, it becomes quickly clear that from a conceptual point of view, fear of crime is comprised of different facets. At the very least, differentiating between the affective, cognitive, and conative-behavioral components of fear seems necessary (Fattah & Sacco, 1989; Hale, 1996; Skogan, 1993). In the KFN-survey, data on all three of components were obtained.

The affective component. Presumably, the most obvious facet of fear is the affective component. One can hardly deny that feelings of fear comprise the core of the fear concept. Accordingly, Warr (1984, p. 686; 1987, p. 33; 1990, p. 896) explicitly surveys the intensity of fear of victimization with the phrase "How afraid are you..." (see also Ferraro & LaGrange, 1992; a similar, yet simpler procedure was used by Akers et al., 1987, p. 494; or Giles-Sims, 1984; "How worried are you..."); see also Krahn & Kennedy, 1985, p. 701; for an overview see Hale, 1996). As described above, within the KFN-survey, the frequency of feelings of fear with respect to four different criminal domains was assessed (theft, violence, robbery, and rape). The following evaluations are based upon the aforementioned summarized score of all four measures (Cronbach's alpha = .84).8

In contrast to the standard operationalization, this "affective" side of fear of crime, when analyzed according to the results described in section 2.1, does not covary with age. This holds both for mean scores ($F(7;9105) = 1.59; p > .10$; see figure 3, below) as well as for individual scores ($r = .03$, $p > .05$). The observed differences between age groups, even if they are statistically significant in singular group comparisons (<20 against ≥ 70 years; see above), have no practical importance since the magnitude of their difference is less than two tenths of a standard deviation.

The cognitive component. The conceptual status of the cognitive component of fear of crime -- i.e. the subjectively perceived probability of criminal victimization -- is controversially discussed among criminologists. While Yin (1985, p. 31) views perceptions of threat and risk as "dimensions" of crime-related fear, Garofalo (1981, p. 843) conceives them as "conditions." In

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8 In a recent pilot study, this measure of frequency of fear was found to correlate with the intensity of fear (using the phrase "How great is your fear of being ...") at $r = .81$ (Greve, 1996). This finding supports the validity of this assessment of the affective component.
a similar vein, Skogan and Maxfield (1981) understand fear of crime as a psychological state that is "provoked" by personal appraisal of risk (similar views from Skogan, 1981a, p. 25; Gubrium, 1974, p. 249; Yin, 1985, p. 32). Warr and Stafford (1983, p. 1034; see also Baker et al., 1983, p. 321) assume that cognitive factors "produce" fear; Ferraro and LaGrange (1987, p. 73) speak of "influence" and "effect" (similar views from Miethe & Lee, 1984, p. 400). Boers (1991, p. 208) speaks more carefully of "components" and "elements." Balvig (1990) differentiates between five cognitively oriented "nominal" definitions and speaks in this context of "connotation" (p. 123). Similarly, in a brief overview by Skogan (1993), three of the four definitions of fear of crime described are cognitively oriented (appraisal of the importance of the problem, appraisal of risk, and degree of threat).

A closer look reveals, however, that the constitutive significance of cognition, particularly the perception and interpretation of situations, for emotion must be acknowledged (Rorty, 1980). For example, in frightening films -- at least in the well-made examples of the genre -- fear is directed not to what one sees, but rather to what is implied, i.e., what the perceiving person interprets and associates with the visual image. According to this conception of cognition as a precondition for emotion, the cognitive appraisal of a situation as "threatening" and in particular the perception of personal risk (Killias, 1990; Perloff, 1983; Sacco & Glackman, 1987; Yin, 1985; Warr, 1987, differentiates here more precisely between "perceived risk" and "sensitivity of risk"), are essential constituents of fear (Clarke & Lewis, 1982). This relationship, however, no way implies that fear is a "rational answer" (Baumer, 1985, p. 242) to threatening cognitions. Rather, appraisal of risk is a (constitutive) part of fear and thus a necessary (constitutive) condition for fear -- but in a logical, not in a causal sense. A person who is sure that s/he will never be the victim of a certain crime, does not fear that crime. To experience fear of crime in a certain situation implies (logically) to perceive this situation as "dangerous" (otherwise the experience would not be "fear"). In particular, fear of crime logically implies a -- cognitive -- reference to crime: the threat has to be identified as 'criminal' (which is not a visible but an interpreted and -- hence cognitive -- aspect of a perceived situation). In their comprehensive and careful discussion of this perspective, Ortony, Clore and Collins (1988) discuss cognitions as "antecedents" of emotions (p. 172); but this is compatible with the conceptualization outlined here since it is possible tha a certain cognition of a "dangerous" situation doesn´t develops itself into fear of crime whereas it is impossible that fear of crime can occur without any cognition.⁹

From this follows that the appraisal of risk is not a "cause" (not even a "proximal" one) or "determinant" of fear (like most authors claim; cf. Box, Hale & Andrews, 1988, p. 342; Fattah

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⁹ At this juncture, it seems woth mentioning that to "claim that emotions always involve some degree of cognitions is not the same as asserting that the contribution of cognition is necessarily conscious" (Ortony, Clore & Collins, 1988, p. 4). However, as these authors also concede, "the experience is the sine qua non of emotions" (p. 176). By the way, this is one reason why the experience of emotions is immune against error (cf. Greve & Buchner, 1995).
& Sacco, 1989, p. 223; Miethe & Lee, 1984, p. 399; Warr, 1984, p. 682ff.; Warr & Stafford, 1983; Yin, 1980, p. 493, 502), but a constitutive part or aspect of it, and that the subjectively perceived risk of victimization cannot be conceived as a stressor whose consequence is fear of crime (Sacco, 1993). Hence, it would be misleading to present "beliefs" and "fear" as distinct phenomena ("while individuals hold beliefs about crime, they feel danger"; Skogan, 1981a, p. 25; emphasis in the original; see also Fattah & Sacco, 1989; Hale, 1996), since this sort of distinction sweeps the aforementioned conceptual relationships under the carpet.

If the foregoing considerations are correct, it becomes less surprising that strong bivariate relationships are found between "fear" and "subjective risk of victimization" (Sacco, 1993), or that "fear" occurs only under conditions of high (perceived) threat and high (perceived) probability of the event in question (Warr & Stafford, 1983). Findings of this nature (cf. also Miethe & Lee, 1984, p. 404ff.), however, do not imply causality; instead, one might more aptly describe them as "pseudoempirical" results (in the sense of Smedslund, 1984). Accordingly, the mere fact that the reported correlations are not always high (Ferraro & LaGrange, 1987, p. 79) does not mean that a hypothesis is falsified (or even proves that the connection between cognition and emotion is not logical in nature), but only underscores the apparently invalid assessment of at least one component. Since the assessment of "fear" usually rests on the standard question, this suspicion becomes quite plausible.

In the present study, the subjective probability of becoming the victim of a given crime was assessed parallel to the frequency of feelings of fear: Subjective probability was again assessed with respect to the four criminal domains mentioned above (the question reads: "How probable is it in your opinion that you will be personally victimized within the next 12 months by ...?"; answering alternatives: improbable - less probable - probable - highly probable). Accordingly, the cognitive facet of fear of crime was assessed in an analogous manner through a sum index over all four domains (Cronbach's alpha = .83).

The age curve for the subjective probability of victimization (figure 3, below) is remarkable in two respects. First, it is quite interesting to find no age-related increase on this dimension of fear ($r = -.02$, $p > .10$). Second, although a comparison of means does result in a significant age effect ($F[7; 7782] = 2.51$, $p = .014$), the oldest and youngest groups do not differ significantly from each other. Furthermore, the subjective probability of victimization actually seems to drop somewhat in the age groups over sixty years. Therefore, it seems inappropriate to speak of an "irrational" or "delusional" fear of crime among the elderly (cf. Balkin, 1979; Boers, 1991, p. 109, p. 178; DuBow, McCabe & Kaplan, 1979, p. 16f.; Eve, 1985; Jaycox, 1978; Lindquist & Duke, 1982, p. 121f.; Skogan, 1981a, 1987; Stafford & Galle, 1984, p. 182; for an overview Hale, 1996, p. 100ff.). From all appearances, older individuals do not overestimate their risk of victimization; indeed, they seem aware of its decrease.
refrains from drawing conceptually incoherent conclusions. In the present study, a total of eight different precautionary behaviors were assessed. Analogous to the facets described above the conative aspect of fear of crime was assessed by summing up the individual scores to an behavioral index (example items: "I avoid certain streets, public squares, or parks," "I carry some means of defense;" "I avoid public transport services after dark;" Cronbach's alpha = .85). Interestingly, the age curve for the conative indicator does indeed show a clear increase. An analysis of individual \( r = .28, p < .001 \) as well as mean values \( F[7; 9065] = 111.32, p < .001 \); figure 3, below) shows that older persons behave more defensively and more carefully than younger ones. Moreover, the difference between the youngest and the oldest age groups is about one standard deviation, which indicates a change of considerable magnitude and practical importance.

This finding proves illuminating with regards to the discernible increase in fear of crime observed using the standard question. Apparently, this way of assessing fear of crime adresses a situation which is closely related to avoidance behaviors ("evening," "outside," "alone"), and those aspects clearly gain in significance with age (cf. also Hale, 1996). If the arguments presented above are sound, i.e., if precautionary behaviors are not merely the consequences of fear, but rather comprise an actual indicator of essential fear, then this finding at first hand seems somewhat discrepant with the findings on the cognitive and affective aspects of fear reported in the previous sections. At the very least, it prompts one to search for the perspective which appears to be the most appropriate for the paradox under question.

3. Is There Any Paradox At All? Arguments For An Integrative Conceptualization Of Fear Of Crime

It seems somewhat difficult to take stock of the results presented thus far. On the one hand, it obviously would be misleading to make the sweeping claim that fear of crime rises with increasing age. In absolute terms, older individuals are not very afraid of crime; nor are they relatively more often afraid of crime than their younger counterparts. Moreover, older individuals correctly estimate their chances of being involved in such crimes as lower than for middle-aged adults and not higher than for young persons. Furthermore, fear of crime is quite obviously not a pressing concern for older individuals, particularly when compared to problems associated with the personal future (disease, personal care, loss of family and relatives). On the other hand, the results of behavior-oriented indicators (including the standard question) show that claims of greater fear of crime among the elderly are not completely unfounded.

Thus, a more clear-cut theoretical conceptualization of what is meant by "fear of crime," i.e., what aspects might be appropriately attributed to this concept is obviously necessary. Actually, the call for a more pronounced theoretical understanding of what "fear of crime" should entail is
not exactly new. Most of the literature — and not only recent publications — typically express dissatisfaction with the lack of a precise definition and corresponding assessment of the concept under investigation (e.g., Arnold, 1991, p. 87; Bilsky & Wetzels, 1993; Boers, 1993, p. 67; DuBow, McCabe & Kaplan, 1979, p. 1f.; Ferraro & LaGrange, 1987, p. 71; LaGrange & Ferraro, 1987, p. 373; Miethe & Lee, 1984, p. 396f.; Orzek & Loganbill, 1985, p. 18; Warr, 1987, p. 29; Yin, 1980, p. 495, 1985, p. 31). However, despite the quite comprehensive extent of research on fear of crime, a general theory has not yet been formulated. Various approaches towards a heuristic framework (e.g. Garofalo, 1981, p. 843; Skogan & Maxfield, 1981, p. 17; Balvig, 1990; Greenberg, 1986, p. 49) still seem to be too "prototheoretical" (see also the critique by Taylor & Hale, 1986, though their own attempt to clarify the situation also neglects the theoretical difficulties discussed in section 2.4). The lack of theory-guided investigations on fear of crime in age fits to the fact that the issue of emotion(ality) in old age was not very well investigated until recently (cf. Carstensen & Turk-Charles, 1994; Carstensen, Gottman & Levenson, 1995, p. 140f.; Labouvie-Vief, DeVoe & Bulka, 1989; Levenson, Carstensen, Friesen & Ekman, 1991, p. 28).

"Emotions have many facets. They involve feelings and experience, they involve physiology and behavior, and they involve cognitions and conceptualizations." (Ortony, Clore & Collins, 1988, p. 1) The arguments presented in the previous section, which underscore the constitutive significance of different facets in understanding fear of crime, entail that none of these facets is more important or central than the others. Although the affective component obviously touches upon the core of the concept, both cognitive and conative components also are essential aspects of fear of crime. To put it roughly, one might say that while affect is the hot heart of emotion, cognition is the cold part of it whereas behavior is the visible part. If this is true, then any empirical assessment which fails to address some of these facets does not do justice to the fear of crime construct.

Consequently, a theoretical approach in which a combination of these (necessary) conditions must be satisfied in order to properly speak of fear seems to be more appropriate (cf. also Lazarus, 1991, Lazarus & Lazarus, 1994; Fattah & Sacco, 1989, p. 209, speak of "multidimensionality"). To repeat, the components themselves are not causally related to fear (instead, together they are constitutive for it), although between them, causal relationships quite probably exist (for example, between the perception of a certain situation and a specific observable behavior). Hence, the individual components (or constituents) nevertheless can and ought to be assessed seperately (which may result in correlations of various strength; cf. Warr, 1984). It seems appropriate, then, to construct a combined indicator for the empirical analysis which integrates the components in question. Accordingly, an additive aggregation of the three (z-standardized) scale scores into a global index was calculated. As expected, the "items" (i.e. scores of the "sub"-scales) of this index correlate relatively highly with one another ($r[cog^{*}aff]$
=.72, r [cog*beh] = .45, r [aff*beh] = .51; for all r; p < .01) which results in a satisfying internal consistency of this three-“item”-scale of fear of crime (Cronbach’s Alpha = .79).

The analysis of age-related changes in this aggregated fear of crime index brings a further illumination to the fear side of the fear-victimization paradox. The means of the fear index do increase noticeably with age \( F[7;7700] = 15.68, p < .01; \) figure 3); this holds also at the individual level \( r = .12, p < .01 \). Considering that the behavioral indicator -- which itself correlates strongly with age -- is part of the aggregated index, this result is not surprising.\(^{10}\)

![Figure 3: Various indicators of fear of crime (z-values)](image)

A closer examination, however, allows one to distinguish some important points within the overall pattern of results. First, an almost perfect parallel between the aggregated variable and the standard question throughout adulthood catches the eye \( r = .64; p < .01 \). At least for middle adulthood, then, the standard item seems to be better than its reputation. One important qualification, however, must be made: for the upper age groups (beyond 60 years of age), these

\(^{10}\) By the way, the gender differences observed in age groups are also consistent with the general findings in the field. In particular, a two-factorial analysis if variance reveals that beside the -- „usual“ -- main effect for gender
indicators increasingly diverge from one another. Whereas the standard question as well as the behavioral indicator show a continuous increase in fear, the aggregated indicator shows clear deceleration and even a reduction in fear among the older age groups. Thus, also the fear-side of the so-called paradox has to be refuted, since fear of crime as assessed in a more comprehensive way decreases with age.

4. The Solution To The Puzzle: The Quest For Psychological Processes

At this stage of the discussion, however, one could object that the findings presented so far just demonstrate that fear of crime, depending upon the assessment procedure used, can sink, remain stable, or rise, a pattern which hardly offers a clear solution to the paradox. One obvious answer to this objection might be that, according to the arguments discussed in the previous sections, the different ways of assessing fear of crime are far from being theoretically equivalent. At the very least, one can no longer speak of fear of crime as a unified entity. Though this might illuminate some of the murkier sections of the discussion at hand, it remains still unsatisfactory in many respects. The divergence between some aspects of subjective fear and objective risk has not yet been plausibly explained and remains a pertinent issue, even if the problem has considerably less practical significance than has been claimed. This remaining theoretical challenge still has significance for gerontology. Findings from the KFN-survey show that older individuals, if they report fear of crime, suffer more from it than younger individuals. The prediction of depressivity by means of fear of crime (bivariate correlation: $r = .30, p < .01$) was moderated by age ($t = 5.78, p < .001$). with increasing age, the relationship between fear of crime and depressivity becomes stronger.

One might therefore search for possible explanations as to why the elderly indeed behave somewhat more fearful. At least three partial answers become evident. The first answer (Section 4.1) states from a gerontological point of view that the increase in behavior-oriented fear indicators may possibly overestimate the actual extent of fear of crime, since it could be partially explained by means of other psychosocial processes that do not directly impinge upon fear of crime. The second answer (Section 4.2) states that the apparent contradiction between frequency of victimization and fear of crime can be solved by placing both aspects in a

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(according to which in general women suffer more from fear than men) the age-related increase is steeper for men, hence the significant interaction between age group and gender ($F[7;7692] = 3.45, p = .001$).

11 The moderator effect was examined using stepwise regression, which introduced in the first step fear of crime and age as predictors ("main effects") and the product term as an additional predictor ("moderator effect") in the second step (cf. Cohen & Cohen, 1983). Due to the lack of a corroborated measure for depressivity in old age (such as the Geriatric Depression Scale; Sheik & Yesavage, 1986) in the KFN-Survey, depressivity was assessed combining seven items taken from a scale on habitualized fear employed in the main investigation (example items: "I tend to take things hard", "Unimportant thoughts stay in my head and oppress me"; "I believe that I am worse off than other people"; Cronbach's alpha = .81).
functional relationship to one another. The third answer (Section 4.3) attempts to identify possible causes for this pattern of results.

4.1 The Behavior-Related Increase In Fear Has A Number of Explanations: The "Lifestyle" Argument

From a gerontological perspective, the behavioral assessment of fear is disadvantageous because several of the behaviors included in the KFN-survey are somewhat ambiguous in terms of their psychological (expressive) meaning. At the very least, one must consider the possibility that behaviors which reflect withdrawal from one's physical and social environment are symptomatic of an age-related change in lifestyle (which can express itself, for example, in less frequent use of public transportation at night). Many kinds of social withdrawal behavior are normatively sanctioned in implicit theories of aging (Cummings & Henry, 1961). This argument touches upon both sides of the paradox (lower objective risk, but higher fear), since lessened mobility (e.g., due to grave healthy problems) and social expectations and norms (e.g., concerning nightly social activities for older individuals) change the opportunity structure for criminal victimization. This kind of argument is discussed among criminologists under the labels of "lifestyle" or "routine activity" since long (cf. Cohen & Felson, 1979; Fattah, 1986, 1991; Fattah & Sacco, 1989; Hindelang, Gottfredson & Garofalo, 1978; Lindquist & Duke, 1982; Stafford & Galle, 1984; Yin, 1985). One must note, however, that the so-called "selective exposure" hypothesis has not yet been confirmed in a methodical differentiated manner (Boers, 1991, p. 110; Hale, 1996, p. 101; Yin, 1985, p. 23). Moreover, in the present study, the homogeneity found within the avoidance behavior scale speaks against this explanation (factor analysis of the several behaviors in question confirms a single factor solution explaining 50.6 percent of the variance). Nonetheless, it is still possible that the relatively moderate increase in the behavioral aspects of fear overestimates the actual level of (experienced) fear shared by older cohorts.

4.2 Older Individuals Are Less Often Victims Because They Are More Afraid: The "Sensible Precautions" Argument

These considerations lead to the question of wether the finding of higher fear and lower victimization is truly contradictory or paradoxical. Note that the fear-victimization paradox is only observed when behavior-oriented indicators of fear of crime are employed. However, it is precisely this aspect of fear that fundamentally alters the objective probability of criminal victimization. Persons who avoid walking the streets after dusk, or persons who avoid unfamiliar or dangerous public squares, will, because of these precautions, be less susceptible to criminality. Older individuals are generally more careful, which lowers their risk of
victimization, at least regarding public incidences of crime. This argument goes one step further than the "lifestyle" and "routine activity" arguments mentioned previously, since it explains reduction in the victimization of older individuals by referring to their precautious (and hence criminality-related) behavior.

However, the „sensible precautions“ argument avoids to refer on a causal relationship between fear and behavior, which has often claimed (as mentioned above). Fattah (1993a, p. 22) has gone this step further suggesting that older individuals, due to their increased fear of crime, systematically avoid (or at least more carefully venture into) situations and environments to which they ascribe increased risk of victimization (see also Balkin, 1979; DuBow, McCabe & Kaplan, 1979; Hindelang, Gottfredson & Garofalo, 1978; Kreuzer, 1992; Lindesay, 1991; Mawby, 1982). Objections against this theoretical view were already discussed in section 2 and 3. Instead, the „sensible precautions“ argument claims a causal relationship between caution and victimization.

4.3 Older Individuals Are More Afraid Because They Have More Reason To Be Afraid: The "Vulnerability" Argument

However, even if the explanations sketched so far perhaps solve the „fear-victimization-paradox“ once and for all, one question remains: why are older individuals more careful in their behavior than their younger counterparts? The functional relationship between behavior and risk holds independent of age -- if older individuals do indeed have less risk of victimization and perceive (or at least tend to perceive) their level of risk realistically, then their predisposition to behave in a cautious or careful manner must somehow be explained. The most important answer to this question, perhaps, is that older individuals have good reason to be careful: in many respects, older individuals are more vulnerable than younger ones.

This vulnerability has various aspects (Killias, 1990). It can express itself in terms of financial security (Hirschel & Rubin, 1982, p. 360ff); the theft of a purse containing an entire month's rent can present a danger to the older individual's very existence. However, physical vulnerability is perhaps the most salient facet of vulnerability; even relatively minor injuries resulting from physical contact during a crime (e.g., robbery or assault) can have grave consequences for older individuals, especially since their weakened defense and adaptive capabilities hinder the natural process of healing and regeneration (Dankwarth, 1992; Häfner, 1991; Reuband, 1992; Smith, Enderson & Maull, 1990). For example, the consequences of a fall become more important with age (Tideiksaar, 1993). Long-term physical impairment, e.g., from a broken bone, can lead to irreversible losses in autonomy and dependence upon outside care (Dankwarth, 1992, Killias, 1990). Furthermore, the increasing multimorbidity found in old age (Steinhagen-Thiessen & Borchelt, 1993) increases the risk that an injury constitutes an
additional stress, i.e., one that compounds the trouble associated with the older individual's already extensive health problems. Physical frailty can also impede the victim's ability to defend him- or herself or to escape (Reuband, 1992).

When, due to one's own (perceived) vulnerability, victimization becomes associated with grave consequences, then preventive behaviors aimed at providing security and safety will become correspondingly prudent, even when the chances of victimization appear slight (Fattah, 1993a; Hale, 1996). Accordingly, this point has received some attention in the literature: fear of crime obviously depends upon the anticipated potential consequences of violent crime (Hirschel & Rubin, 1982; Killias, 1990; Lindesay, 1991), which, due to the reasons cited above, are often more grave for the elderly (Baldassare, 1986; Boers, 1993; Clarke, 1984; DuBow, McCabe & Kaplan, 1979; Eve, 1985; Fattah, 1986; Finley, 1983; Warr, 1984; Yin, 1980). In a similar vein, younger persons, if they perceive themselves to be vulnerable, also exhibit higher fear of crime (Killias, 1990; Yin, 1985). Accordingly, a recent study by McCoy et al. (1996, p. 200) supports the claim that vulnerability is predictive for precautionary behavior.

In the KFN-survey, a systematic assessment of subjective vulnerability was not carried out (the lack of such scales in empirical research on victimization has been criticized by many authors; cf. Sacco & Glackman, 1987, p. 99). In order to tentatively examine the assumption discussed above, a rough indicator of subjective vulnerability was constructed with three items designed to assess the subjective importance of one's own health (sample item: „How threatened do you see your personal safety at the moment by serious illness?“, alternatives: hardly threatened at all - not so threatened - quite threatened - very threatened; Cronbach's alpha = .73). As expected, this indicator increased with age ($F[7;9268] = 148.63, p < .001$); furthermore, highly vulnerable persons (paramedian division of the sample) exhibited a more marked fear of crime than less vulnerable persons ($F[1;7682] = 707.52, p < .001$). Only the vulnerable group shows a tendency of age related increase of fear; however, the interaction effect is not statistically significant ($F[7;7682] = 1.32, p > .10$).

5 Beyond Simple Paradoxes: Towards A Gerontological Perspective On Fear Of Crime Among The Elderly

The previous sections have shown that dissecting the question and examining the various aspects of fear separately is necessary. However, not everyone who has reason to be afraid is afraid, and not everyone who is afraid has a good reason to be so. Actual circumstances like the
social integration and support as well as personal conditions – in particular the availability of coping resources – have to be taken into account (Finley, 1983; Hansson & Carpenter, 1986). 12

5.1 Plea For A Gerontological Perspective Towards Fear of Crime in Later Life

The call to apply gerontological arguments and perspectives to the study of victimology presupposes that the threat of criminality is a special problem in old age, at least in relevant aspects. This presupposition should not remain undisputed. Unfortunately, it cannot be tested through simple description of data or statistical relationships. For example, even if fear of theft could be empirically proven to increase with age, this might only reflect the circumstance that older individuals are less well-equipped (financially speaking) and hence ceteris paribus more devastated by material loss. In that case, the increase of fear of theft with age would not be a special problem associated with aging but only reflect an accidental (historical) socio-economic pattern.

However, several arguments support the notion that threats due to actually experienced or anticipated criminality are in fact a problem which acquire a particular quality in old age and to this extent, must be discussed from a gerontological perspective. First, it was just mentioned that older people are more physically vulnerable to criminal victimization than younger persons. Second, the temporal horizon or a foreshortening of life expectancy is systematically shrinking with age (Brandstädter & Wentura, 1994). Thus, the ever decreasing number of years remaining can become a very scarce and precious resource, and it becomes all the more harder to compensate for deficits and losses. A serious injury might, in certain cases, appear incurable within one's expected lifespan ("I'll never be able to walk again!"). Third, the tendency of older individuals to discount the possibility of controlling or influencing their lifes and in particular of threatening events (Brandstädter & Baltes-Goetz, 1990; Brandstädter & Rothermund, 1994) may exacerbate the problem. Although "proxy control" enables a delegated person to stabilize the aging individual's life quality in old age (Baltes & Silverberg, 1994), the older person's dependence upon the protective influence of others may reinforce his or her perception of lack of personal resources (e.g., with respect to possibilities of self-defense) and affect how the aging individual perceives and deals with criminal threat. Furthermore, when the density and quality of the social net worsens with age (Arling, 1987), the older individual may not be able to compensate for limitations through external and social support.

On the other hand, as mentioned above, ageing is characterized by a shift of coping reactions from active efforts to solve the problem at hand to more adaptive ways of dealing with it (Baltes & Baltes, 1990; Brandstädter, Wentura & Greve, 1993). If it is true that "accommodative" and palliative coping forms gain in importance in old age, then the usefulness of these reaction

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12 It should be noted that many "external" conditions that may contribute to a higher degree of fear of crime were not considered explicitly in this paper. One obvious example for such kind of influence is the role of mass media, in particular TV and newspapers. However, the effects of media reports on personal fear of crime are controversially discussed in the literature (e.g. Hale, 1996, p. 109ff.; Heath, 1984).
5.2 Helping Versus Hindering: The Two Faces of Social Support

Fear of crime reflects not only the perception of a personal threat, but also the awareness of lacking social support and protection. The importance of interpersonal relations for the dealing with critical life events is reflected in a vast expanse of empirical and theoretical studies on the significance and efficacy of social support (e.g., Cohen & Syme, 1985; Thoits, 1982, 1983; Schwarzer & Leppin, 1992; with regards to criminal victimization see Fattah & Sacco, 1989; Lurigio & Resnick, 1990; Sales, Baum & Shore, 1984; Silverman & Kennedy, 1985; Toseland, 1982).

However, there is evidence that the social network becomes smaller, thinner, and more susceptible to falling apart with age (Arling, 1987; Vaux, 1985). Through death or severe illness, members of the social network may fall away, leaving holes which can seldom (if ever) be replaced. Similarly, limitations to one's mobility can lead to a decrease in social activity and integration. Old persons living alone do in fact suffer more from fear of crime (Braungart et al., 1980; Lawton & Yaffe, 1980; Lee, 1983; Toseland, 1982). Findings from the KFN-survey also indicate that the extent of subjectively perceived social support moderates the relationship between age and fear of crime. Specifically, older persons who feel more socially integrated suffer less from fear; at the same time, however, perceived social support decreases with age (Greve, Hosser & Wetzel, 1996).

Unfortunately, social support is not helpful by itself and in every case. Thus, for example, Sacco (1993) found no direct relationships between fear of crime and social support (if anything, a weakly positive relationship was evident). One must recognize that despite best intentions, not all that is said or done by the victim's significant others is, or is perceived to be, truly helpful (Shumaker & Browell, 1984). The causes of incompetent support include not knowing how best to help and a tendency of avoiding close contact with crime victims (Herbert & Dunckel-Schetter, 1992). Offers of support may make the victim aware of his status as a victim and his need of help. Supporting the victims activities of daily living – though providing immediate relief from stress – over the long term may result in increased helplessness and social dependency (Shinn, Lehmann & Wong, 1984). In effect, social reactions quite often even lead to a secondary victimization; the victim of a crime becomes a victim a second time, namely a victim of incompetent and inadequate reactions on the part of institutionalized and personal
social contacts (Symonds, 1980). Attributions of guilt towards the victim are a prominent example of secondary victimization, although even such reactions may be functional, even for the victim her- or himself (Brickman et al., 1982; Janoff-Bulman, 1982).

5.3 Personal Coping Resources: Ways Out Of Fear And Around It

Perhaps the most important function of social support is to protect potential victims by promoting and supporting their own coping resources (Greenglass, 1993) and by facilitating or enabling victimized individuals to cognitively reevaluate and restructure their victimization experience (Agnew, 1985; Cohen & McKay, 1984; Schwarzer & Leppin, 1992; Shumaker & Brownell, 1984; Silver, Wortman & Crofton, 1990). Research findings which compare actual crime victims with nonvictims regarding their fear of crime has produced a diverse set of (oftentimes contradictory) results (for an overview, see Kury & Würger, 1993; cf. also Arnold, 1991; Balvig, 1990; Box, Hale & Andrews, 1988; Burt & Katz, 1985; Hough, 1985; Kury et al., 1992; Lee, 1983; Miethe & Lee, 1984; Rosenbaum & Heath, 1990; Sessar, 1990; Skogan, 1987; Skogan & Maxfield, 1981; Smith & Hill, 1991; Wetzels et al., 1995; Yin, 1985). These discrepancies strongly demonstrate that the subjective processing of threatening experiences and information plays a key role in explaining fear of crime and other aspects of personal well being (Agnew, 1985; cf. also Frieze, Hymer & Greenberg, 1987; Lawton, Nahemow, Yaffe & Feldman, 1976; Lurigio & Resnick, 1990; Sales, Baum & Shore, 1984; Tov, 1993). Fear of crime, one might cogently state, is in some sense a sign that coping with (actual, vicarious or anticipated) victimization experiences or criminal threats has not succeeded.

However, as mentioned in the first section, the current gerontological discussion draws a picture of a remarkable resilience and adaptivity demonstrated by the older individual. Although aging even from the older person's perspective is characterized by an increasingly worse gains-losses ratio (Heckhausen, Dixon & Baltes, 1987), numerous studies and literature reviews have shown that indicators of depressivity, subjective well being, self-esteem, and life quality do not decline in old age (cf. Brandtstädter, Ventura & Greve, 1993). Recent theoretical advances have thus oriented themselves accordingly towards the concept of "selective optimization with compensation" (Baltes & Baltes, 1990), "resiliency" (Staudinger, Marsiske & Baltes, 1995) or "accommodative" developmental regulation (Brandtstädter & Renner, 1990; Brandtstädter & Greve, 1994). There is initial empirical evidence that these kinds of palliative coping resources can significantly reduce the amount of fear experienced by crime victims (Greve, Hosser & Wetzels, 1996).
5.4 Fear Of Crime Among The Elderly: What Do We Know And What Do We Need To Know?

It should be evident that both sides of the "fear-victimization paradox" must be discussed in a more differentiated manner. Though it is true that older individuals do indeed have lower rates of victimization, the general probability of being the victim of a crime increases with age. And although a fearful tendency has been observed in the elderly using behavior-oriented indicators, cognitive and affective indicators do not show the presence of irrationally high perceptions of danger or frequent and/or pronounced feelings of fear underlying this behavior. Moreover, an analysis of an aggregated index of fear, which places equal emphasis on all three aspects of fear, shows that though the age-related increase in fear of crime is observable in young and middle-aged adults, this tendency becomes weaker in later life and actually even reverses. The thesis that fear of crime is not a central problem of aging is supported by the present data with respect to the relative importance of fear of crime compared to other threats to personal security and to the absolute level of fear experienced. Finally, a functional relationship between precautious behavior and victimization must be considered: defensive behavior contributes to the lessening of objective risk of victimization. The conclusion seems to be justified that there is no "paradox" at all. It seems perhaps worth reminding that the present study proved this empirically using a data base that was perfectly able to replicate the effects which establish the so-called "victimization-fear-paradox", in particular, with respect to the "standard"-assessement of fear of crime.

However, it should also be noted that according to these results the standard question -- despite the points of critique raised in the earlier discussion -- affords a good estimation of fear of crime as long as the individual components of fear do not systematically diverge. The finding that the validity of the standard question assessment procedure obviously is differentially restricted is important, because it provides an argument for retaining the question in future victimization surveys (augmented by further indicators) for purposes of comparison with previous research, as long as one bears in mind that this way of assessing overestimates the fear of crime for persons who perceive themselves as highly vulnerable (e.g. due to actual victimization or due to the perception of developmental increase of frailty; Greve, 1996).

Furthermore, it becomes increasingly clear that an isolated discussion of fear of crime does not do justice to the complexity of the relationships. In order to make the story more sound, several steps have to be made. First of all, an elaborated theory of (criminal) fear, as well as a corresponding method of assessment, must be developed. The component approach suggested here could be better implemented by planning the data assessment accordingly from the beginning. Other aspects, such as the intensity of fear, the anticipated gravity of a potential criminal victimization, and especially a large variety of behavioral and situational aspects of fear, should also be incorporated into the assessment instrument.
Beyond these concerns, the integration of further psychological constructs into the existing formula will prove unavoidable. Gerontological arguments and findings (e.g., the changes in social behavior in old age) will be hard to ignore. In particular, a valid assessment of personal vulnerability, which ought to include a differentiated measurement of physical health and ability, seems to be absolutely necessary. A further constitutive element of perceived threat and fear of crime are personal beliefs in whether or not the individual can control or at least avoid certain situations (e.g., Normoyle & Lavrakas, 1984). However, generalized control beliefs do not appear to be very promising as moderators (Greve, 1996); instead, future studies would do well to assess specific, crime-related control beliefs (Gabriel, 1996). The theory-guided assessment of personal coping resources, as well as an adequately differentiated operationalization of the social resources available and the individuals' evaluation of these resources, appears to be the next step in discovering predictive or moderating factors. The inclusion of other indicators of well-being (e.g., self-esteem, optimism, and subjective life quality) also appears quite crucial.

In conclusion, elderly are not at all "prisoners of fear." The theoretical and empirical arguments outlined in this paper show that there is no need to apply this tired description any longer. To the contrary, the elderly are far from being paralyzed with fear of crime; they don't fear criminal victimization more often than younger people and they don't overestimate their risk of becoming a victim. Furthermore, they have many other (far more serious) apprehensions and worries, such as concerns regarding future health restrictions and its consequences. What is left is that older people behave somewhat more cautiously than younger ones, and they are wise and well advised to do so.
References


