Abstract: Modern work life is characterized by constant change, reorganizations, and requirements of efficiency, which make the distribution of resources and obligations, as well as justice in decisionmaking, highly important. In the work life context, it is a question not only of distributing resources and obligations, but also of the procedures and rules that guide the decisionmaking in the organization. Studies of these rules and procedures have provided the basis for a new line of research that evaluates leadership and social relationships in working communities; that is, distributive, procedural, and relational justice. This review follows the development of research on organizational justice from its origins in early social and motivational psychological theories to its establishment as a major line of research in modern work and organizational psychology. The adverse consequences of injustice include poor team climate, reduced productivity and well-being, and work-related illnesses.

Keywords: psychosocial; organizational justice; health; productivity; review
Introduction

Compared with many other disciplines, the research on organizational justice is relatively young. The “prehistoric” phase was dominated by classic theories of social psychology and motivational psychology, such as John Dollard and Neal Miller’s frustration aggression hypothesis (1939), Abraham Maslow’s hierarchy of needs (1943), Fritz Heider’s balance theory (1946, 1958), and Leon Festinger’s theory of cognitive dissonance (1957). The Theory of Relative Deprivation, developed by United States sociologist Samuel Stouffer after the Second World War (1949), is usually considered the first real justice theory. It suggests that employees’ satisfaction with rewards, such as salary or status, is not dependent on only their absolute level but also on how employees compare their rewards with those of others.

Another United States sociologist, George Homans, developed the theory of relative deprivation toward a more general theory of social exchange in his article “Social behavior as exchange,” published in the American Journal of Sociology in 1958. According to Homans, social interaction between human beings is a form of social exchange or a series of exchanges, by which different types of expectations and rules are developed in human communities. These expectations include, for example, reciprocity, understanding of modesty and equity, and the relationships between inputs and outputs. The stronger the formation of these rules in human communities, the more they become normative moral rules, even though they are often unofficial and unwritten. These social rules have been seen as prerequisites or basic characteristics of human communities. The more recent theories of social capital are based on these concepts. Homans was also among the first theorists to consider humans as highly sensitive to inequalities in normative trade. Thus, people experience an imbalance between their input and the outputs they feel they deserve, as unfair. Homans was the first scholar to introduce the concept of distributive justice, and stated that perceived injustice
leads people to try to restore balance. However, he did not specifically describe the means that people use to accomplish it.

The next author to further develop Homans’s theory was Peter M. Blau, in his book *Exchange and Power in Social Life* (1964).\textsuperscript{9} According to Blau, people’s satisfaction with their social exchange is determined by the benefits they receive in relation to the expectations they had of these exchanges. Expectations develop not only through personal experience, but also when people compare their benefits to those of their counterparts. The benefits received by people with whom one wishes to identify, or with whom one has identified, are especially significant. Blau divided these expectations into *general* and *particular expectations*. General expectations are expectations of the norms and values of society as a whole, whereas particular expectations are those that people have of specific exchange relationships. These particular expectations are thus related to, for example, family members, or supervisors or colleagues at the workplace. They focus not only on the expected benefits in relation to invested inputs, but also on the rules that control the whole social interaction or social exchange. These particular expectations linked, for the first time, justice to work organizations and relationships between employees and managers. Blau further distributed exchange into two areas: social and economic. In terms of modern justice theories, the more interesting concept of these two is the concept of social exchange, which is formed by a strong, but not easily managed, tapestry of expectations and obligations that lead to human interaction. Expectations concern immaterial rather than material things, such as kindness, acknowledging other people’s feelings, and respect. According to Blau, maintaining social interaction is largely dependent on how *trust* is developed, which, in turn, is dependent on how expectations are realised in the long run.
How Justice Rose to the Center of Organizational Psychology

The first theory to have a major impact on organizational psychology originated in the 1960s and is still valid today. It is known as the equity theory by United States psychologist John Stacy Adams. According to Adams, there is a strong motivational drive toward equity, and he himself considered the theory a motivational theory. Adams also distilled exchange balance as a core unit of exchange, and for the first time, he also described the consequences of a shaken balance. In a situation in which rewards are greater than investments, an employee feels guilty, and as a consequence, increases investments. Alternatively, the investments can be revalued as more highly valuable than previously, which is another way of reaching the balance between inputs and outputs. In another scenario, in which rewards are lower than investments, the consequence is dissatisfaction and a reduction of investments and work efforts.

Adams, in line with Homans, stated that people define their own balance to a large degree by comparing their rewards and investments with those of certain reference people; that is, those who are in the same position in the occupational hierarchy, or with those rewards that they received in their previous work. Adams’s theory and ideas were strongly based on classical social psychological theories. In his view, the motivating power behind human behavior is striving toward balance in all spheres of life. Imbalance means psychological strain, which in one way or another must be resolved to prevent constant negative load. Even though the focus in Adams’s theory was on behavior, it formed a basis for later research as to how justice at work might affect health, by defining the central stress mechanisms that are linked to long-term imbalance. Later, the concept of allostatic load was introduced and defined as a state of psychological stress, which is opposite to homeostasis (i.e., balance), and a long-term consequence of losing homeostasis. It has been suggested that
allostatic load is a major mechanism explaining the effect of psychological stress on health. The final impulse to justice research in social and organizational psychology came from two parallel research groups at the beginning of the 1970s. These groups shifted their focus to the fairness of procedures according to which resources are distributed. Morton Deutsch and Gerald S. Leventhal divided justice into a more traditional framework of different groups, whereas John Thibaut and Laurens Walker investigated the rules that directed fair decisionmaking in judiciary procedures and trials. Both Deutsch and Leventhal aimed to study the rules that directed decisionmaking. Leventhal in particular classified rules that were perceived as fair and were used in order to impact people in work communities. However, Deutsch and Leventhal viewed different concrete decisionmaking situations that were much more complex than their predecessors, and emphasized compromises, which were required in most of those situations. Because of this complexity, it is also difficult to stick to only one rule at a time. In 1975, Thibaut and Walker published their classic study that compared judicial customs in Europe and the United States. They divided the customs according to the main principle of decisionmaking that, in turn, was based on the power that the decisionmaker has over the different phases of the process. These two principles were: (1) general power over decisionmaking and (2) power over knowledge on which the decisions are based. They observed that a legal procedure in which the convict had a say was more often perceived as fair, although objectively, the decisions were the same. Thus, they introduced voice-effect to the justice literature, which means that the perception of justice is strongly affected by the possibility of people being heard or having control over the information that is used for decisionmaking. The abovedescribed research had a strong impact on how procedural justice was defined in the work organizational context. By the
1990s, the concept of procedural justice in the work organizations included the following seven principles:

Procedures in the work organization are designed to:

- collect the accurate information necessary for making decisions
- provide opportunities to appeal or challenge decisions
- have all who are affected by the decision represented
- generate standards so that decisions can be made with consistency
- hear the concerns of all those affected by a decision
- provide useful feedback on decisions and their implementation
- allow requests for clarification or additional information regarding the decision

These principles are the core rules that define procedural justice. In the following paragraph, we introduce other concepts that have been developed to describe organizational justice.

Core Concepts of Organizational Justice

In organizational psychology, theories of justice have been based on two established concepts: (1) *distributive justice*; that is, employees’ perception of justice in rewards and benefits at work, largely according to Adams’s work, and (2) *procedural justice*; that is, employees’ perception of fairness in the principles and processes that lead to decisionmaking and the distribution of rewards and benefits. Already during the 1970s, the focus of research had shifted from distributive to procedural justice. The reason for the unparalleled interest in procedural justice was probably the observation of several studies, that suggested that people do not only react to the amount of reward but also to separate aspects of the
decisionmaking process itself; for example, the relationship among different benefits, the question of whether all parties are equally treated during the decisionmaking process, whether rules are consistent, whether all parties are informed, and whether assessment is unbiased.23

Researchers spent the whole of the 1980s and 1990s examining whether people could differentiate distributive justice from procedural justice, which one more strongly affected their perception of justice, and how much each component could compensate for the other. For example, researchers investigated whether people were satisfied with an unfair distribution of benefits for themselves if the rules behind the decisionmaking were perceived as fair, and vice versa. Justice was further defined with increasing delicacy. In 1986, United States organizational psychologists Robert J Bies and Joseph Moag20 presented a new form of justice, relational (or interactional) justice, which deviated from distributive and procedural justice. They claimed that people are sensitive to the ways in which they are treated during the decisionmaking process. People expect courteous, friendly, and respectful treatment from their managers even when decisions are negative or undesirable. To date, the concept of organizational justice includes three core components: distributive, procedural, and relational justice. However, 15 years ago, heated debates arose about the structure and components of this concept. Some researchers, such as Jason A. Colquitt,25 suggested that relational justice can be divided into two dimensions: informative justice, the extent to which information processes are fair in the organization, especially when implementing big decisions, and interpersonal justice, which reflects whether employees perceive their treatment as respectful and appropriate.

For a relatively long period of time, justice research was dominated by decisionmaking and management in work organizations. In the 1990s, the focus began to diverge into three different lines: the motivational factors behind justice processes, perception
and cognitive processes, and the consequences of injustice. The United States tradition concentrated on motivational factors, and in particular, the contribution of two basic motivational drives—benefit and identification—to justice perception. The benefit hypothesis postulates that the driving force is self-interest in relation to individuals’ input, whereas the identification hypothesis views social relationships and identification as major contributors to justice perception. Cognitive processes and perception were examined using various comparative study processes and alternative visualization perception techniques (see, e.g., Robert Folger’s referent cognitions theory). These visualizations are largely people’s internalized experiences of social exchange, which they use when comparing procedures concerning and treatment of themselves, to those procedures concerning and treatment of other people. These ideas can be viewed as a direct continuum of Samuel Stouffer’s (1949) theory of relative deprivation.

The first classical articles were published at the turn of the 1980s (e.g., Thibaut and Walker and Leventhal), and the first broader review book, *The Social Psychology of Procedural Justice*, was written by Allan E. Lind and Tom R Tyler in 1988. The book introduced the background of justice literature and empirical evidence up to that date. However, justice as a psychosocial concept in work life did not fully emerge until the beginning of the 2000s when several reviews were published and when the topic was accepted for the first time in the highly regarded *Annual Review of Psychology* in 2001, in an article authored by Dale T. Miller. *The Handbook of Organizational Justice* by Jerald Greenberg and Jason A. Colquitt was published in 2005, and this concentrated for the first time exclusively on organizational justice. Justice in work life has become established as an important research area, with several new reviews published recently.
Consequences of Injustice at the Workplace

Since the late 1990s, research on the consequences of injustice at the workplace has been dominated by United States and European studies. The widest and longest research tradition has focused on the relationship between justice and productivity,\textsuperscript{39, 40} that has usually been defined as work performance, proactive \textit{citizenship behavior}, and harm behaviour, such as unjustified absence. Distributive justice, procedural justice and relational justice have all been associated with worker productivity, as defined previously.\textsuperscript{41-42} A link has also been observed to commitment to work and turnover,\textsuperscript{43-45} job satisfaction,\textsuperscript{46} and perceived work stress.\textsuperscript{47}

Traditionally, work and organizational psychology have not focused on the association between justice and employee health. This research line was first initiated by Finnish researchers, and today the other Nordic countries, the United Kingdom, and Central Europe also have active researchers. As previously mentioned, stress theories had a strong theoretical basis (e.g., Bruce McEwen’s \textit{Theory of Allostatic Load}, 1998),\textsuperscript{48} that suggested a relationship between injustice perceptions and health outcomes. The first epidemiologic study examined justice perceptions and stress among personnel in primary healthcare centers in Finland and was published in the \textit{Journal of Applied Psychology} by one of the authors of this article, Marko Elovainio, and his colleagues.\textsuperscript{49} This study was followed by another, with the title \textit{Organizational Justice, a New Psychosocial Predictor of Health}, that for the first time focused on health outcomes such as mental health and sickness absence.\textsuperscript{50} The risk of medically certified sickness absence was 15 percent to 35 percent lower among employees who perceived fair management at their workplaces. Later studies have shown associations with diagnoses of anxiety and depressive disorders as reasons for sickness absence.\textsuperscript{51} A systematic review supported the hypothesized link between perceived injustice at work and mental disorders and symptoms of mental ill health.\textsuperscript{52} Studies on mental health have
primarily examined procedural and relational justice; distributive justice to a lesser extent. A recent review summarized six previous review studies on work-related psychosocial factors and cardiovascular diseases. Only one review analyzed studies on justice and cardiovascular diseases, reporting only two single observational studies on this association, which both found an association between perceived injustice and the incidence of cardiovascular disease. Since then, one more review has been published. This review found three studies on organizational justice. A Swedish study examined the quality of leadership—with some components of justice included—and found an association between poor leadership and heart disease. There is also evidence of an association between perceived injustice and vascular dysfunction, metabolic syndrome and inflammatory markers among men, sleep disturbances, cognitive dysfunction, and unhealthy behaviors such as risky alcohol use and smoking intensity, that is, the number of cigarettes smoked. Some studies have tested a hypothesis suggesting that justice in decisionmaking is particularly important during times of organizational change and insecurity. However, even though justice and health have been actively studied during the past two decades, there is still a need for a stronger evidence base from large-scale studies and meta-analyses that sum up and quantify the research evidence.

The fundamental question is: Why is justice so important to employee well-being and health? When seeking answers, the theory of social exchange has become the leading theoretical framework and has received substantial support. The core concept of social exchange, trust, acts as a mediating mechanism between justice and its effects; trust reduces insecurity and maintains reciprocity. However, in their recent meta-analysis, Colquitt and his group found more consistent support for emotions as mediating mechanisms. According to this viewpoint, perceived justice evokes strong positive emotions, such as enthusiasm and pride, whereas experiences of injustice evoke strong negative emotions, such as anger, anxiety, and guilt. Daniel Skarlicki and Robert Folger had already
observed in their classic work in 1997 that injustice experienced at the workplace leads to retaliation, such as the damaging of tools or work processes, verbal assaults on managers, stealing from the workplace, unjustified absence, doing private business during working hours, and smearing one’s employer’s reputation to people outside the company. Today, a combination of the social exchange theory and emotion viewpoint is believed to be a useful approach when aiming to proceed in organizational justice research and theory.75

**Justice as a Shared Experience in Work Communities**

Because work activities are increasingly performed in teams and work communities, research relying on individual experiences of justice is limited.76 Decisionmaking and processes are targeted at groups, and it is suggested that the experience of justice is socially constructed. Therefore, the most recent research line investigates organizational justice as a collective, shared experience in work communities.77 These studies are based on several theoretical frameworks, for example, the attraction–selection–attrition theory,78 which postulates that the members of work communities metamorphose into a uniform group in their perceptions and understanding of justice over time. This is because deviating people leave the group. Social information processing and fairness heuristic theories suggest that employees in working groups seek signs of justice, especially in insecure and unclear situations, and discuss and share information in order to finally form a uniform interpretation.79,80,81 Evidence of the shared perception of organizational justice climate has accumulated over the past decade, and Daniel Whitman et al.’s systematic review and meta-analysis in 201282 was probably the first on this topic. It was shown that of the shared organizational justice climate perceptions, distributive justice was most strongly associated with work unit performance (e.g., productivity and customer satisfaction), whereas relational justice was most strongly
related to working unit processes, such as commitment to the workplace and cohesion in the
working unit. Few studies have thus far focused on employee health. They showed that
working unit procedural justice was associated with a lower prevalence of depression and
anxiety among employees.\textsuperscript{83,84}

Justice as a shared perception in school workplaces was the focus of two
Finnish studies.\textsuperscript{85,86} Data on secondary school personnel perceptions of procedural and
relational justice were linked to a student health and well-being survey. The results revealed
that being heard at school was a shared experience among school personnel and students; in
schools where the personnel reported low opportunities to be heard, the students reported
similar problems in their survey.\textsuperscript{87} Low levels of procedural justice among the personnel were
associated with students’ dissatisfaction with school, and low levels of relational justice were
associated with poorer performance, as well as psychosomatic and depressive symptoms
among students. Each form of injustice reported by school personnel was associated with
students’ truancy.\textsuperscript{88}

A similar work unit approach was applied in a study on the prevalence of
hospital-acquired infections among patients in Finnish hospitals.\textsuperscript{89} Mean values of personnel
surveys on management and team climate in each hospital ward were calculated and linked to
patient data, including information on hospital-acquired infection. After adjustment for
patient and ward characteristics, poor trust and injustice in the distribution of work tasks were
associated with a twofold higher prevalence of hospital infections among patients. This
finding was explained by the known fact that poor leadership and trust can lead to increased
stress and indifference among staff who probably do not have enough resources to commit to
the most important principles of infection control, such as hand hygiene.

Further studies on the association between organizational justice and patient
outcomes were conducted in Finland and the United Kingdom. In Finland, high procedural
justice in primary healthcare centers was associated with better glucose balance among patients with diabetes\textsuperscript{90} whereas in the United Kingdom, procedural justice was associated with better commitment to treatment guidelines and better treatment, such as more frequent blood pressure and glucose measurements, as well as counseling for weight control and self-treatment.\textsuperscript{91}

Organizational justice may thus have widespread impacts beyond the employees and working units. These impacts might relate to the quality of work, and to customers, students, or patients. Even though the analyses of working units seem promising, Whitman and his colleagues\textsuperscript{92} acknowledge that a shared perception is based on a bilateral relationship between employees and their managers. Therefore, there is no need to make a value judgement that separates individual and group experiences of justice; instead they can be seen as research lines that complement each other.

**Concluding Remarks**

Developing justice at the workplace is a relevant target, because changing decisionmaking procedures, information, and the ways in which people are treated does not increase financial costs but can lead to many positive outcomes. Even though social relationships among people are complex, the basic principles remain the same. Because people are capable of and sensitive to registering violations of justice in rules that direct social interaction, and because these violations may have various adverse effects, fair procedures, information sharing, and treatment at the workplaces are worth considering.
Notes


29. See note 6, Stouffer et al. 1949.


31. See note 21, Leventhal 1980.


41. See note 33, Colquitt et al. 2001.

42. See note 40, Colquitt et al. 2012.

43. See note 33, Colquitt et al. 2001.

44. See note 37, Colquitt et al. 2013.


46. See note 33, Colquitt et al. 2001.


67. See note 26, Brockner et al. 2007.


69. See note 37, Colquitt et al. 2013.

70. See note 9, Blau 1964.

71. See note 40, Colquitt et al. 2012.


73. See note 37, Colquitt et al. 2013.


75. See note 37, Colquitt et al. 2013.


77. See note 38, Whitman et al. 2012.


82. See note 38, Whitman et al. 2012.
83. See note 51, Elovainio et al. 2013.


88. See note 86, Elovainio et al. 2011.


