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For my husband, Francis C. Lees

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Jean E. Jackson

INTRODUCTION

The topic of pain offers a treasure trove of anthropological research projects that pose intriguing intellectual challenges. To begin with an obvious point, pain, especially chronic pain, is a hugely important issue: 40 percent of patients seeking medical attention cite pain as the reason; approximately 45 percent of people will experience chronic pain at some point during their lives (Taylor 2006: 237); an estimated 86 million Americans have some form of chronic pain (Sullivan 2007: 263); and over US \$100 billion is spent yearly in treatment-related costs and lost-work productivity due to chronic pain (Sullivan 2007: 268). Also, pain medicine intersects in complex, anthropologically fascinating ways with powerful institutions like the insurance and pharmaceutical industries, and government. Another reason to encourage more research is that new insights emerging from social science investigations can potentially ameliorate the distress experienced by pain sufferers and those around them.

Academic disciplines studying pain range from psychophysics and biomedical engineering all the way to philosophy. Although a great deal of behavioral and clinical social science research on pain has appeared, sociology and anthropology have paid relatively little attention to the topic. Yet, given the truism that the best locations for understanding a society are the sites where things don't work, pain's invisibility and ontological and epistemic uncertainty offer fertile terrain for anthropological investigation.

Various paradoxes coalesce around pain, "one of the most controversial areas in neuroscience... rife with philosophical problems" (Aydede and Guzeldere 2002: S266). For example, while pain is conventionally seen as aversive and unwanted, biologically speaking, pain is indispensable. Pain warns of injury or organ malfinction, and helps heal a wound by motivating the individual to tend to and protect the

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site. Many textbooks on pain begin by describing the extremely unhappy lives of those rare individuals born with a congenital inability to feel pain. Pain medicine plays with this contradiction: one book is titled *Pain: The Gift Nobody Wants* (Brand and Yancey 1993), and one article's title is "When good pain turns bad" (Watkins and Maier 2003).

cine's underlying biologistic foundational premises (see Kleinman 1995: 27-34). sensations - is aversiveness, which, being an emotion, does not fit within biomedicertainly a sensation, its bedrock meaning – and what distinguishes it from nonpainful traditional definition of pain as sensation provides an example. Francis Keefe and experience as pain is in fact prevalent in pain research" (2002: S267). Medical science's terms of tissue damage and the 'subjective' criterion of when to categorize a given tures and processes), pain illustrates some of the problems associated with mind-body "heartbroken" notwithstanding. Another example: although emotions are always embodied (this is precisely what (Keefe and France 1999: 137) nicely elides the nature of that warning; while pain is Christopher France's definition, "a sensory event warning of tissue damage or illness" between what can be quantified as the 'objective' measure of pain as characterized in dualism. Murat Aydede and Guven Guzeldere note that the "fundamental tension "the mind," the body's fundamental role in emotions is often obscured, phrases like distinguishes them from cognitions), because we tend to see emotions as an aspect of Both an aspect of mind (experience) and brain (produced by neurological struc-

Joanna Kempner notes that biomedicine has the cultural authority to define what is biological and therefore natural (Kempner 2006: 633). However, it is also true that, because everyone has had pain, including serious pain (for instance, childbirth pain), we all can speak authoritatively about it. Interesting gaps are found between pain as conceptualized by neuroscience and ordinary, "folk" notions (which includes clinical medicine; see Chapman et al. 2000: 217). For example, neurosurgeon John Loeser asks, "Does anyone really believe that a tooth is capable of hurting? Or a back?" (Loeser 1991: 215). Yes indeed, Dr Loeser: pain sufferers (and, for the most part, their primary physicians) see backs and teeth as precisely where pain happens, not the central nervous system, which is, ironically, the precise location being referred to when a given pain is dismissed as being "unreal," "imaginary," "all in his head."

Any anthropological discussion of pain will sooner or later depart from the biomedical model because so many dimensions of pain lie outside, or at the extreme margins, of medicine. A given pain's meaning derives from an individual's history and environment. Pain of necessity remains poorly formulated until it is located in a time and a cultural space – the immediate context of a pain experience and the myriad less proximate factors that shape it. These include sex and gender (Garro 1992; Kempner 2006; Whelan 2003), social class, ethnicity (Trnka 2007), prior experiences with pain, family history, and so forth (see, for example, Good et al. 1992). Moreover, although biomedically and conventionally pain is seen as a property of an individual, in fact it is deeply intersubjective. The experiential world of a pain sufferer will be significantly shaped by persons participating in that world, a point made by Wittgenstein some time ago (also see Das 1997; Kleinman et al. 1992).

A given pain's meaning is the most significant determinant of the pain experience, and a major reason why pain (particularly chronic pain) may not be proportional to tissue damage. Indeed, the experience "may be totally unrelated to the physical

parameters of intensity and to the duration of the 'pain-producing' nociceptive stimuhus" (Tracey 2005: 127). One of the most famous demonstrations of this fact is Henry Beecher's report on soldiers wounded on the Anzio battlefield in the Second World War. Because their injuries represented a ticket home with honor, requests for pain medication were significantly fewer than would be expected (Beecher 1946).

There are numerous studies of pain in other cultures, but as their topics, aims, and methodologies vary extensively it is difficult to draw generalizations. Space limitations prevent me from discussing the cross-cultural literature in any comprehensive fashion. The variety of studies is apparent in the following randomly selected list of published accounts: ballet dancers' pain in the Netherlands; infibulated refugee Somali women; Indo-Fijian women's pain discourses; the role of pain in a particular martial arts practice in Israel; childbirth pain in India. With respect to anthropological research in the U.S., only a few extended studies exist (Bates 1996; Corbett 1986; Greenhalgh 2001). Well-known work by sociologists includes Baszanger 1998, Hilbert 1984, Kotarba 1983, Zbrowski 1969 and Zola 1966.

lives (cited in Morris 1994: 8). ruling us when we feel pain and even when we do not, thus providing stability to ou assertion that pain governs individual lives much as a sovereign power governs a state, redemption, one can say pain has restored order. Another example is Jeremy Bentham's in some way. For example, if pain becomes the means to a sought-after end, say, from the conventional one, most often toward a conceptualization of pain as "good" exist, but they emerge only after pain's meaning has traveled a considerable distance failure" (Eccleston et al. 1997: 707). Exceptions to such a sweeping assertion do that attempts to stabilize the disequilibrium only "provide opportunities for repeated and physician. This is a disorder which invites and demands resolution." They note of disequilibrium. Such disequilibrium and disorder are threatening to both patient (1983), state, "Pain can only make sense for those directly involved in it as an index than pain. As Chris Eccleston et al., paraphrasing William Arney and Bernard Bergen is the quintessential symbol of disorder - one could argue that death is more orderly of metaphors of order and disorder (Turner 1991), we can confidently state that pain it. Pain is a powerful and productive metaphor. Given that the body is the main source body simultaneously produces and is produced by culture, reflecting and reproducing tabula rasa on which to inscribe our most fundamental cultural ideas about suffering" humanities (see, for example, Morris 1991, 1994). As Kempner notes, "pain offers a and the symbolics of pain offers an endless set of possible research topics in the (Kempner 2006: 636; also see Scarry 1985). As with bodies in general, the painful Pain of various kinds occupies center stage in much of the West's cultural production.

The protean nature of pain perhaps partly explains why it has not received the anthropological attention it deserves. According to Arthur Kleinman, pain "etudes the discipline's organized explanatory systems as much as it escapes the diagnostic net of biomedical categories" (Kleinman 1992: 170). But these very same reasons provide a potential researcher with a promising site in American medicine "where the relations of power and professional knowledge and the potential for exploitation residing in power relations are unusually visible" (Kleinman et al. 1992: 6).

This essay discusses the areas of pain research and treatment of most interest to anthropology. The next section looks at recent neurological research on pain, including the profound impact of neuroimaging technologies. A brief discussion of some

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clinical considerations follows. A section on the biopsychosocial approach to chronic pain treatment comes next, followed by a brief section on language and pain, and then conclusions. Note that the body is problematized throughout, but for the most part implicitly.

NEUROLOGICAL APPROACHES TO PAIN

The International Association for the Study of Pain provides a widely used definition of pain: "an unpleasant sensory and emotional experience associated with actual or potential tissue damage, or described in terms of such damage" (1979: S217). Yet despite this presumably authoritative definition, debates over how to conceptualize pain continue to appear (see Baszanger 1998; Thernstrom 2010). As already noted, one source of difference stems from whether pain is being seen as aversive experience (grounding it in emotion and mind) or as a nociceptive event involving a noxious stimulus triggering electrochemical impulses that register as pain in the central nervous system.

The distinction made between physical and emotional pain, so seemingly necessary, commonsensical even, is "a myth" (Morris 1994: 23). Neurologist Howard Fields states that,

...what most people call mental, or emotional pain is ontologically identical to what they call organic, physical or bodily pain. This point is counter-intuitive and failure to appreciate it has compounded the confusion about the nature of pain. Once this point is appreciated, many confusing phenomena, such as the placebo response, somatization, psychologically induced headache, and analgesia in trance, become less surprising and arcane (Fields 2007: 43).

Harold Merskey, another eminent pain researcher, agrees: pain "is monistic, which, at least as a rule, cannot be split up into organic or psychological components" (Merskey 2004: 71). Fields states that pain "is generated in the brain. It is neural and mental. It is physical pain in the sense that nerve cells and their activity are physical. Pain is mental pain in the sense that it is subjectively experienced 'in' what we generally call the mind" (Fields 2007: 43). We can add that the experience of pain is always both "mind" and "body," mental and physical, simply because the pain experience is always embodied.

In actuality, the physical/mental distinction refers to cause, not the pain itself. According to the IASP, "activity induced in the nociceptor and nociceptive pathways by a noxious stimulus is not pain, which is always a psychological state." Although psychophysicists zeroing in on barely measurable neuron activity in rats will say they are studying pain, they are actually studying one point in a causal chain that ultimately produces a pain experience. Every time an author uses the phrase "physical pain," they are referring to cause, not pain.

That a given pain always has multiple causes, at varying removes from the experience, should be obvious, but this point is also often ignored (see Jackson 1994a) because the conventional model of pain focuses in on its proximate cause, the "nociceptive stimulus." That all pain results from a chain of causes prompts philosopher Mark

Sullivan to question whether we should even conceptualize pain as something that begins with nociception, given that the experience is so fundamentally influenced by previous experience (Sullivan 1995: 9).

vations of ourselves and others" (Loeser 1996: 102). advises that pain is "not a thing; it is a concept that we impose upon a set of obserprojected "in space to the site of tissue injury" (Fields 2007: 43). Locser's comment pain experience results from activating a neural representation in the brain, which is nent, each of which takes place in different parts of the brain (Fields 2007: 45). All pain: a purely discriminative part, a motivational aspect, and an evaluative compopresents itself" (Price 2000: 1769). Fields discusses three distinct components of responses, all in relation to meanings of the pain and to the context in which pain several sources, including pain sensation, arousal, autonomic, and somatomotor occurred in pain medicine with the widespread acceptance during the 1970s of a above is confirmed: nothing outside the mind/brain is capable of hurting. He Donald Price describes the unpleasantness of pain as reflecting "the contribution of involving cognitive, emotional, and behavioral inputs that shape a nociceptive signal. nervous system have been replaced by two-way flows along multiple pathways body travels up the dorsal horn of the spinal cord and is processed by the central lation and extensive neuroplasticity (Holdcroft and Power 2003: 636). Traditional approach, and the current neuromatrix model incorporates multiple sites for modumodel, fear-avoidance models, and diathesis-stress models [Taylor 2006: 241].) (Other theories include the operant model, the Glasgow model, the biobehavioral unified model: the gate control theory (Mclzack 1999; Melzack and Wall 1996). about the control of pain" (Holdcroft and Power 2003: 635). A paradigm shift neurobiology "have generated a fundamental change in attitude and expectation conscious individual, an interpretation of nociceptive inputs. Major advances in model and now agree that it is quite a complex process, a subjective response of a cine but in biomedicine as a whole. Researchers have abandoned the pain-as-sensation ings and in journals expose some of the basic contradictions not just in pain medinotions of pain-as-sensation in which a unidirectional nociceptive input from the The gating control system model was more flexible than the neuroanatomical The fraught arguments that took place until fairly recently at professional meet-

According to Linda Watkins and Steven Maier, pain is the most dynamic of the senses (Watkins and Maier 2003: 232–233). Pain pathways are much more responsive to pain modulatory systems, including top-down influences like learning, attention, expectation, and mood (see Fields 2007: 52–53). In this and other respects the contrast between pain and other modalities of perception like vision, hearing, and touch is striking (Åydede and Guzeldere 2002: S266). Anita Holdcroft and Ian Power report on evidence that "inhibitory, immune, hormonal… and inflammatory systems may enhance or inhibit neuronal activity" (Holdcroft and Power 2003: 638). Processes that enhance pain constitute another paradoxical example of "good" pain, for hyperalgesia increases one's focus on the damaged or infected area. Modulating systems may release endogenous opioid peptides (endorphins) that suppress pain. Furthermore, a "mental representation of an impending sensory event can significantly shape neural processes that underlie the formulation of the actual sensory experience" (Koyama et al. 2005: 12950). Experimental manipulation of expected pain shows significant effects on reported pain experience, one study showing that positive expectations

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analgesic dose of morphine" (Koyama et al., 2005: 12950). Also, over time, persistent alter the brain and produce a chronic pain condition. This is a far cry from concluding mental and psychophysiological variables" (Ingvar 1999: 1347) that can permanently tissue damage and subsequent interactions by "a complex set of emotional, environalso see Kleinman et al. 1992: 4), and that what is much more frequent are initial consideration the fact that purely psychogenic pain is very rare (Taylor 2006: 242; not to say that psychiatric referrals ought to end, but that clinicians must take into explains many cases of chronic back pain. The diagnostic trajectory is clear - which is neurological processing, or altered cerebral representation of nociceptive input, which for psychiatric treatment in earlier times are now understood to be due to normal damage (e.g., phantom limb pain) that would have resulted in a patient being referred present pain" (Holdcroft and Power 2003: 638). Many conditions lacking tissue mission and perception of pain messages, and thereby affect future responses to pain" pain "can produce changes in the nervous system pathways responsible for the trans-"produce a reduction in perceived pain (28.4%) that rivals the effects of a clearly "imaginary." that if tissue damage is not apparent, a patient's pain is due to a neurosis, and therefore (Keefe and France 1999: 138). In short, "the state of an individual determines the

technologies are seen as more valid, reliable, and replicable. An example: Ploghaus objective measures ("evidence-based medicine"), findings obtained through imaging a sign - visible and measurable brain activity. Because of medicine's emphasis on were obtained using neuroimaging technologies developed over the past 30 years. responses (called "mirroring") to depictions of someone in pain, which shows the occurs, which are "distinct from the neural substrates of pain itself" (Ploghaus et al positron emission tomography (PET), and functional magnetic resonance imaging of science scholars. 40 years of pain medicine research offers a plethora of research topics for anthropology anisms to prevent future harm by learning to recognize signals of impending pain" et al. discuss neuroimaging research into areas of the brain where "activation of mechbehavior, verbal or non-verbal, seen to result from a pain experience), to change into gies permit pain's status as a symptom, knowable only through pain behavior (any functioning in response to painful stimuli, profoundly increasing understanding of 1999: 1979, 1981). Another example: recent studies reveal neurological affective how the brain processes – i.e., represents, interprets – sensory stimuli. These technolo-(fMRI). The value of these technologies lies in their ability to reveal changes in brain neural substrates of empathy (Tait, 2008; also see Singer et al. 2004). Clearly, the last Many of the research findings that have brought about these "fundamental changes"

Not surprisingly, these neuroimaging technologies are "good to think." A considerable gap exists between brightly colored successive two-dimensional images of computer-generated information and the experience of pain (Dumit 2004). For one thing, the quality of imaging studies is highly constrained by small sample size (Ingvar 1999: 1353). The limits of neuroimaging are particularly apparent in clinical settings: "...the MRI is still just a snapshot of the anatomy. It does not reveal physiology. It does not show pain. The picture it yields is no more self-explanatory than a rash or a heart murmur. The image – like any physical finding or laboratory test result – must be interpreted, and the fundamental, irreplaceable basis for its interpretation must be the patient" (Saberski 2007: 253).

SOME CLINICAL CONSIDERATIONS

A battery of sophisticated instruments (e.g., the McGill Pain Terms Assessment; the ricula. Improvements were made in understanding the differences between acute pain discount the intensity of chronic pain" (Tait 2008: 110). an empathic provider "may be less vulnerable to the general provider tendency to clinician attitudes and behavior increased; for example, Raymond Tait reports that signals from the spinal cord (Melzack and Wall 1996). Knowledge about optimal influence higher centers in the brain to the extent of actually blocking the flow of pain pain (see, e.g., Seybold 2007). Research has also shown that pain-coping skills can self-hypnosis may affect the serotonin pathways in the brain that regulate mood and has shown that practices like meditation, prayer (Wachholtz and Pearce 2009), or patients; for example, instruction in inducing the relaxation response. Recent research (MMPI). Cognitive-behavioral medicine approaches were custom-tailored for pain alongside older instruments like the Minnesota Multiphasic Personality Inventory Pain and Impairment Relationship Scale) were developed and used in these clinics developed, as well as devices like TENS (transcutaneous electrical nerve stimulation). America and Europe. New kinds of pain medications and anti-depressants were outpatient, many taking a multidimensional approach, were established in North lost this function, is itself the problem. Hundreds of pain clinics, both inpatient and than a disease, a "normal" indication of something abnormal; chronic pain, having and chronic pain. As already indicated, pain is commonly seen as a symptom rather itself as worthy of attention, for example, deserving of a slot in medical school curyears significant advances were made, the first being the gradual acceptance of pain Pain medicine emerged as a stand-alone specialty in the 1970s. Over the succeeding

a day - only for a day, because I wouldn't want anyone to feel it any longer than that" ethnographic research in 1986; for example, "I wish that doctor could feel this pain for ease, cancer), we cannot feel another person's unmediated pain. This issue was menpain), undertreatment continues to be a serious problem (see Morris 1994: 10). Part of of pain is undertreated, and although efforts have been made to ameliorate the situation to stop being childish, self-indulgent, and weak; rather, he should "pull himself together." sometimes occurs, asserting that because everyone has aches and pains, the sufferer needs bear it." Because we have all had pain, a kind of "mountain-out-of-a-molehill" response treatment, for example, the notion that sufferers (particularly men) should just "grin and (Jackson 2000). Finally, certain attitudes about pain doubtlessly contribute to its under tioned over and over by patients in the inpatient pain center where I conducted about certain diseases' ability to produce tremendous amounts of pain (sickle-cell diskillers). Another reason, surely, is that despite our powers of empathy and knowledge drugs, which has led governments to very tightly regulate opioids (the most potent painthe reason is the West's "drug problem," in particular the illegal traffic in prescription (for instance the recently installed signs in examining rooms asking patients to rate their It temale, she should seek psychological counseling (Thernstrom 2010: 148). But problems remain. For example, despite a widespread consensus that a great dea

Other responses to pain sufferers by people not in pain, including health care professionals, can lead to disappointment and frustration as well. Pain's potential benefits might be mentioned, the pain sufferer told that adversity provides an opportunity for

growth, or that pain builds character. Of course, adversity *can* lead to growth, but when a pain sufferer hears such a comment she can feel put down and unheard. Now, if *she* chooses to make such a comment about herself, because the messenger is always part of the message, a very different message is being sent. Not suprisingly, the benefits of pain are, for the most part, touted by people who are not suffering serious pain.

sufferers might find somewhat odd, is the one between "benign" chronic pain and et al. 1992: 4). Another diagnostic distinction, whose terminology chronic pain sanction, an anomalous category, only partially legitimized as disease" (Kleinman discuss chronic pain's uncertain status: "a widely used clinical category without official chronic pain, sometimes referred to as chronic pain syndrome. And further on they problems encountered by those studying and treating "intractable," "pathological" believe. However, the authors later make it clear that they are talking about the many other cultures pain that lasts might not exist at all, which this author finds hard to verging on the hyperempirical ("not been shown..."), or seems to be stating that in (1992: 3). Taken at face value, the statement either is making a methodological point to be universal - it is not something that crosses "cultures and historical epochs" neuralgia, endometriosis or rheumatoid arthritis. One can find examples in the anthronot represent any number of well-understood chronic conditions like post-herpetic cause and chronic = psychological cause, while appealingly clear-cut, in fact does on physical complaints, and the like. A too-simple opposition between acute = organic original damage" (Patterson 2004: 254), such as emotional distress, excessive focus than six months, it is often maintained by factors that have nothing to do with the chronic pain originates from some sort of illness or injury, "once it persists for longer medicine literature. Another example: David Patterson states that although almost all of chronic pain and much more complex ones is encountered throughout the pain pre-existing things" (Kugelmann 2000: 306). This slide between the simple meaning categories themselves are freighted with philosophical presuppositions, not labels for (1999: 1665). "The question of pain is not in what category to classify it, for the Kugelmann states that "chronic pain as an entity finds its very existence disputed" a challenge to orthodox and accepted understandings of illness and medicine." Robert and fraught concept. Eccleston et al. (1997: 707) comment that "chronic pain creates beyond expected healing time, in clinical practice chronic pain is a deeply ambiguous pological literature as well. Kleinman et al. state that chronic pain has not been shown "malignant" pain (i.e., due to cancer). Seemingly so easily defined as pain that lasts and lasts, as symptoms that persist

and the second second

In short, the goal of establishing widely accepted diagnostic terminology continues to be elusive. Watkins and Maier apply the phrase "pathological pain" to any chronic pain that fails to meet two criteria: well understood causal mechanisms and optimal pain management on the part of the patient (Watkins and Maier 2003; see Baszanger 1998). Of course, all chronic pain is "pathological" in the sense of unfortunate and no longer serving any biological function. But chronic pain that fails to meet these two criteria is "pathological" in several additional, very significant respects.

Studying chronic pain exposes the normativity lucking just underneath the surface of the presumed neutral position of biomedicine, where "wrong" or "bad" have very constrained meanings linked to departures from the body's normal structure and function. Biomedicine sees pathology -- the "abnormal" -- to be a physical state. But we have just seen that clinicians distinguish between what we might call "good" chronic

pain and "bad" chronic pain. In fact, virtually all chronic pain sufferers' lifeworlds are filled with normative discourses deploying multiple meanings of right and wrong, "should" and "should not." Sooner or later any discussion of chronic pain must deal with a slew of negatively valenced issues, and in the following section I briefly discuss eight of them. (Note that they are not mutually exclusive.)

et al. 2009: 137). The Latin root for "pain," after all, means punishment. In a just and so something must be wrong. orderly world, our reasoning goes, innocent people would not be suffering like this to blame, or may blame her doctor or the institution that treated her (see Wright if not more negative emotions, and the patient may come to feel that she is somehow a chronic pain patient's attending physician will sooner or later experience frustration treating chronic illness. Because physicians are oriented toward achieving cures, that we reconceptualize medicine as a set of knowledges and practices oriented toward gether (e.g., smallpox and yaws). We have barely begun to heed recommendations greatly reduced infectious diseases' incidence or severity - or climinated them altooccurred. Biomedicine developed in an era characterized by successful campaigns that nate, but wrong in the sense that, even if no-one is to blame, failure has somehow medicine as producing cures, that we tend to see chronic illness as not only unfortu-But we are so oriented toward thinking of pain as something that will go away, and of conditions cause a great deal of pain, gout or diabetic neuropathy coming to mind signals that something went wrong. We may know perfectly well that many incurable period of time. The third negative aspect stems from the belief that pain's persistence izes all chronic illnesses, arises due to the fact that the sick role is legitimate only for a experiencers and those around them want to go away. The second, which character-The first negative issue is the nature of the experience itself – unending pain that

The fourth negative issue appears if the clinician determines that the patient is not managing the situation as well as he should. Chronic pain patients rather easily fall out of the category of patients physicians are eager to treat and into the category of being "a pain" themselves – a "crock" (see Gamsa 1994: 23). Relations between pain patients and health care deliverers are considered the worst in medicine. In fact, pain patients can provoke an intense hostility in caregivers, often the result of a relationship that has seriously deteriorated. The sources of clinicians' negative feelings include, first, the simple fact of the practitioner's failure to end the pain; second, noncompliant patients; third, patients who "shop" for doctors with liberal pain-medication prescription policies; fourth, patients who obtain pain medications from more than one physician; and fifth, patients who clearly need to be weaned, at least to some degree, from the health care delivery system.

The fifth negative issue derives from pain's invisibility. Even those patients who have a well-understood painful disease struggle with this property of pain. Pain cannot be communicated without pain behavior. The distinctions between the experience of pain, pain behavior, and certain emotional states seen to often accompany, rather than constitute pain, such as suffering, depression, or demoralization, can be, and often are, highly ambiguous. Indeed, separating the pain experience from experiences accompanying it is a demanding, perhaps impossible, task and one reason why sufferers find that making their pain apparent can elicit negative, unsupportive responses. Although, as Laurence Kirmayer (1988: 83) points out, people tend to view the stoic as mentally sound and morally upright, the problem remains that people interacting

someone ambiguous, perceived to transgress the categorical divisions between mind pain itself. Sociologist R. A. Hilbert (1984) describes people who experience persistent and body and to confound the codes of morality surrounding sickness and health challenging mind-body dualism, turns the person embodying that challenge into pain. I have argued elsewhere (Jackson 2005b) that chronic pain, by profoundly prehend the nightmare of living with severe pain that lasts and lasts. For one thing, someone is experiencing severe pain unless reminded of it at least intermittently the status of the sufferer's pain. The problem with the stiff-upper-lip approach is that with individuals who "suffer with dignity" must have some way of finding out about pain as "falling out of culture." of my interviewees commented that managing the pain was more difficult than the individuals labeled "sick" and other members of their social world. This is why some treatment and the expectations governing ordinary face-to-face interactions between Sufferers' uncertain ontological status threatens the normal routines of biomedical such an idea is threatening; it is no accident that hell is envisioned as severe chronic the world's population live with daily pain, it is difficult to deeply, empathically com-Precisely because we all have had pain, and for most of us our pain went away, it is most people, while respecting stoic forbearance, nonetheless find it hard to believe hard to imagine situations where it does not. Despite the fact that huge numbers of

The sixth negative issue appears when the cause of the chronic pain is not well understood. We have seen how easily an unknown cause can morph into a diagnosis of "chronic pain syndrome," and that the phrase "chronic pain" often refers exclusively to this category of patient, especially when "intractable" precedes the phrase (note that *intractable* simply means unresponsive to treatment).

surely the way to conceptualize it - admits the possibility that the sufferer might have mediation by the mind is seen to decrease the organic quality of a pain experience, edly is a major reason why people involved in chronic pain - sufferers, their families, psychogenic inputs can invite worry about being seen as mentally ill, which undoubtbeing seen to not have a "real" illness or "real" pain. Suggestions to patients about when a diagnosis of psychogenic pain is made, which often results in the sufferer somehow "brought it on himself" to some extent. individual with a personal history, who is embedded in a social and cultural milieu about who deserves sympathy for bodily injury. Sceing pain as an experience felt by an ther conventional notions about the separation between the body and mind nor ideas an internal organ malfunction, fits into an uncomplicated model that challenges neisimple physiological communication about tissue damage from an external cause or thereby increasing its "wrong," potentially stigmatizing quality. A "real" pain, seen as the archetypical lighted match under a finger. For the majority, any suggestion of and primary care physicians - are so often invested in seeing pain in mechanical terms; The seventh, and most complex negative issue, closely related to the sixth, occurs

Despite pain medicine's advances, most people continue to rather categorically oppose "real" (organic, physical) pain to "all-in-your-head" (imaginary, mental, emotional, or psychosomatic) pain. Institutional actors play a role, too; as Mara Buchbinder notes, health insurance and worker's compensation boards require "proof" of pain before reimbursement (Buchbinder 2010: 123). In short, pain continues to have a complicated relationship with "real" signs of abnormality, which speak in the Cartesian idiom of objectifiable reality that.can be socially apprehended.

The eighth, and final, negative issue concerns the degree to which the cause of a sufferer's chronic pain ethically entitles them to the sick role. The most deserving are those who have experienced tragic events, for example, a robbery that resulted in serious trauma. These sufferers' moral status is impeccable, for they are seen to have in no way deserved their fate. Less deserving are people who are seen to be responsible to some degree for their current situation – for example, being involved in a car accident while on drugs and ending up a paraplegic. Also less deserving are people whose neuroses are seen to produce or augment their continuing pain. Their mental "weaknesses" disqualify them from membership in the first group because their pain's cause lies within them, and from the second group because the cause is located in their unconscious. Finally, individuals who knowingly misrepresent the degree of impairing ner they have sustained in order to access medical treatment or financial compensation are seen as morally reprehensible malingerers, some of them outright criminals who should be prosecuted for fraud.

Unfortunately, how to go about assigning individual patients to a specific category is not at all clear; researchers have pointed out that teams of clinicians in pain centers sometimes find themselves in heated disagreement during evaluation meetings (see Corbett 1986; Loeser 1996).

The question of entitlement is complicated further by the issue of possible gains. Some chronic pain sufferers are seen to resist getting better because they are unconsciously motivated by benefits obtained from being ill -- "secondary gain." Three kinds of gain are distinguished in the clinical literature: primary gain diverts the patient's attention from a more disturbing problem; secondary gain is the interpersonal or environmental advantage supplied by a symptom; and tertiary gain involves someone other than the patient seeking or achieving gains from the patient's illness. Discussions in the literature about secondary gain analyze patients' attempts to "game the system." Phrases like "accident neurosis" and "cured by a verdict" refer to litigation following automobile or other accidents (Worzer et al. 2009).

THE BIOPSYCHOSOCIAL APPROACH TO CHRONIC PAIN TREATMENT

Over the past forty years pain medicine has adopted behavioral medicine's biopsychosocial treatment model. Keefe and France note that a biopsychosocial perspective "emphasizes that pain is a dynamic process that not only is influenced by biological, psychological, and social mechanisms of pain, but also produces biological, psychological and social changes" (Keefe and France 1999: 137). While doubtes this approach is superior to the conventional medical one in many respects (see, e.g., two implications need to be examined. Biopsychosocial therapies that talk of managing pain rather than curing it necessarily assign far less responsibility to the health professional. Shelley Taylor describes the clinician as "co-managing the problem with the patient. If the new technologies are to work, patients must consent and actively participate" (Taylor 1995: 594, as cited in Kugelmann 1997: 59). Being "responsible for one's pain" requires disciplining the body and mind. Ruthbeth Finerman and Linda Beinnett argue that the new "responsibility and blame focused" explanatory models "have the added consequence of stigmatizing and further victimizing victims

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nature of the intervention - which staff saw as therapeutic. which most patients understood. This patient was mainly objecting to the public can produce deleterious changes in physiological functioning and exacerbate pain, divorce have to do with her pain?" Of course stressors like going through a divorce about a fellow patient's divorce in such a public setting, and asked, "what does her all patients and several staff members, one patient stated that he did not want to hear mate aspects of their or their fellow patients' lives. For example, during a meeting of quite extensive. Many patients complained about unwanted staff intrusions into inti-1997: 62). The biopsychosocial gaze at the clinic where I conducted my research was ence are limits. There are no limits to intervention into the patient's life" (Kugelmann complains that "what are no longer recognized in the biopsychosocial chart of existof responsibility" in pain management to be "deeply exploitative" (1997: 59) and cause" (Eccleston et al. 1997: 700). Kugelmann considers such an implicit "morality remains lost, the patient reappears to own that loss: the patient becomes the lost threat and challenge" (Eccleston et al. 1997: 707). "In chronic pain, when the cause been recognised as a common response of orthodox knowledge when faced with sionals' repositioning of themselves from a "healer" role to a "manager" role "has stigma or sickness-induced 'shame'" (1995: 2). As Eccleston et al. note, pain profes-185). They go on: "such patients are forced to fight both health threats and social 'caused' their condition" (Finerman and Bennett 1995: 1; also see Kleinman 1992: the afflicted themselves [who] are then subject to censure for personal failures which by ascribing blame ... [such that] disease, onset and outcome are directly ascribed to

PAIN NARRATIVES

A significant amount of literature has emerged in recent years that discusses the stories patients tell, "illness narratives," virtually all of which are shot through with accounts of pain. (see Das 1997; Kleinman 1988; Mattingly and Garro 2000). Space limitations allow only a brief mention of some of the issues. Some scholars focus in on interpreting pain narratives (Charon 2005: 37–40). A frequently encountered issue concerns the way severe, unending pain challenges a sufferer's very identity. Pain narratives are often gripping: even "pointless," "meaningless" pain can motivate the teller to aim for impressive heights of descriptive power, in particular through metaphor, and fashion dramatic appeals to the interlocutor. Pain can be an enemy, a "monster" (Good 1992) that takes over one's body – which can turn into something unrecognizable, alienated ("possessed"), even traitorous. Pain exiles sufferers from their own bodies, which surface as "strangely *others*" (Goldberg 2009: 34, 35; emphasis in the original). Some accounts vividly describe rejection, in no uncertain terms, of the painful body part.

A great deal has been written, often employing a phenomenological approach, about the relationship between language and pain. According to Jason Throop, the theme of pain-resisting language appears regularly in the literature. Pain tends "to actively 'resist' the cultural patterning of linguistic and interpretive frames" (Throop 2002: 13; also see Daniel 1994; Goldberg 2009: 33). Kleinman et al. write that pain "...occurs on that fundamental level of bodily experience which language encounters, attempts to express, and then fails to encompass" (Kleinman et al. 1992: 7; also see

Jackson 1994b). Due to pain's "unsharability," Elaine Scarry writes that "physical pain does not simply resist language but actively destroys it, bringing about an immediate reversion to a state anterior to language, to the sounds and cries a human being makes before language is learned" (Scarry 1985: 4–5). Drew Leder makes a similar point: "...pain is the consummately private sensation... It is, in fact, actively speech destroying" (Leder 1990, as cited in Throop 2009: 33).

Apart from instruments like the McGill Pain Terms Questionnaire, information about pain not experimentally induced is obtained during medical, psychiatric, or social science interviews. Buchbinder provides a valuable discussion about the constraints the anthropological interview places on the interviewee, in particular what gets left out (2010: 124). Rather than examine the literature on narrative, she argues, we should be looking at the field of rhetoric, for the interview occurs in a setting of unequal power balance where the patient is highly invested in communicating her view of what has happened and her status as a moral being (see Jackson 2005a).

CONCLUSIONS

and Zautra 2010: 105). can feed back into the pain processing system and permanently change it (Sturgeon activation and inflammation of immune system and neuroendocrine reactivity, which Also, chronic high levels of pain constitute a prominent stressor that can produce coping, induce neural processing prior to actual pain stimulus (Ingvar 1999; 1347). ences on the pain experience. For example, some aspects of pain processing, such as pain's multimodality requires that we accept the likelihood of a wide range of influized" (Aydede and Guzeldere 2002: S266) continues. The abundant evidence of tension between pain as subjectively understood versus pain as objectively characteremotional or environmental variables, can seem counter-intuitive. The "fundamental about the plasticity of the central nervous system and its responsiveness to, for example, tally biological - a noxious stimulus and hard-wired response - that recent findings difficult, in part because of our notion of pain as a sensation. Pain seems so fundamenthat the meaning of a pain experience is its most important determinant is quite challenge. Of course, any experience is heavily influenced by its context, but accepting generalizing about the cross-cultural anthropological research on pain poses a major political, and economics venues. Pain's meanings are so dependent on culture that of time makes chronic pain a loaded topic, one constantly being discussed in medical, interest to anthropology. That so much is at stake when people hurt for long periods This chapter has presented some areas in pain research and treatment of particular

Pain continues to be seen as a "thing" rather than an experience. Full acceptance, even within pain medicine, of pain's location exclusively in the brain/mind will be a long time coming, if phrasing in current pain medicine publications is any indication. For example, "pain can therefore be expected to influence brain processing on many levels" (Ingvar 1999: 1347). Media articles with similar phrasing also appear regularly, for example, "Acupuncture 'lessens pain in brain not body,' scientists discover" (Hough 2010).

The situation faced by sufferers of chronic pain exposes several fault lines of the dominant positivist and Cartesian understandings of selfhood and the human body as

they have been institutionalized in U.S. biomedicine. Certain conceptual and moral foundations of biomedicine classify people into categories that pain-sufferers straddle, including those based on two of biomedicine's most basic discourses. The first one, illustrated by the imputation of psychogenic pain, is that of the real and unreal, "physical and mental, real and imaginary" (Kirmayer 1988: 83). And pain sufferers not only reveal the inadequacies of this classificatory system, they also threaten the ethical and normative implications accompanying that system by defying attempts to classify them as a particular kind of moral being. This second discourse – Kirmayer's "accident and moral choice" (1988: 83) – is that of responsibility.

In short, chronic pain patients embody disorder: It might not be going too far to describe chronic pain sufferers as being seen to attack the established order of the part of the universe having to do with received wisdom about the body and mind. If, as Kirmayer suggests, the dualism of Western culture is firmly rooted in the West's construction of the moral order and the person, then understanding the role played by "the fundamental experiences of agency and accident, and their moral consequences" is crucial (Kirmayer 1988: 58). Elsewhere (Jackson 2005b) I have suggested that pain sufferers occupy an ambiguous space with respect to agentive, as opposed to completely involuntary, action, and, as a consequence, ambiguity will inhere in any moral evaluations concerned with agency.

400). Despite a highly significant shift in clinicians' language about pain (and the pain cinc's model of disease "as a thing spatially located in the body" (see Morris 2008: a significant advance in pain medicine, in some respects, it has strengthened biomediever-greater acknowledgment and incorporation of mind-body connections, will patients, for the physicians who cared for them and for the scientists working in the relevant aspects of pain out of the realm of pure psychology and into the realm of the gate control hypothesis, proposed four decades ago, "brought the most clinically for example, Hardcastle 1999; Melzack 1996; Merskey 2004). According to Fields, diagnosis can be reached. But there are indications that such a shift is occurring (see, patient) resulting from these technologies (see, e.g., Merskey 2004), pain still straddles benefit sufferers of chronic pain is anyone's guess. Although neuroimaging represents field" (Fields 2007: 50). neuroscience. A corollary of this was to provide enhanced respectability for pain In clinical settings pain continues to be seen as in need of validation before a reliable the body-mind fence and still continues to represent a fundamental medical anomaly. The degree to which changes in the biomedical paradigm, in particular its shift to

It is to be hoped that more anthropologists will consider investigating this compelling topic.

REFERENCES

Aydede, Murat and Guven Guzeldere, 2002 Some Foundational Problems in the Scientific Study of Pain. Philosophy of Science 69: S265–S283.

Baszanger, Isabelle 1998 Inventing Pain Medicine: From the Laboratory to the Clinic. New Brunswick: Batgers University Press.

Bates, Maryann S., 1996 Biocultural Dimensions of Chronic Pain: Implications for Treatment of Multi-Ethnic Populations. Albany: State University of New York Press.

Buchbinder, Mara, 2010 Giving an Account of One's Pain in the Anthropological Interview Brand, Paul, and Philip Yancey, 1993 Pain: The Gift Nobody Wants. New York: HarperCollins. Beecher, Henry K., 1946 Pain in Men Wounded in Bartle. Annals of Surgery 123: 96-105. Culture, Medicine and Psychiatry 34: 108-131.

Chapman, C. Richard, Yoshio Nakamura, and Christopher N. Chapman, 2000 Pain and Folk heory. Brain and Mind 1: 209-222.

Charon, Rita, 2005 A Narrative Medicine for Pain. In Narrative, Pain and Suffering. Progress Seattle: International Association for the Study of Pain Press; 29-44 in Pain Research and Management. John Loeser, Daniel Carr, and David Morris, eds.

Corbett, Kitty, 1986 Adding Insult to Injury: Cultural Dimensions of Frustration in the Man of California, Berkeley. agement of Chronic Back Pain. Ph.D. dissertation, Department of Anthropology, University

Daniel, Valentine E., 1994 The Individual in Terror. In Embodiment and Experience: The Cambridge University Press. Existential Ground of Culture and Self. Thomas J. Csordas, ed. pp. 229-247. Cambridge:

Das, Veena, 1997 Language and Body: Transactions in the Construction of Pain. In Social sity of California Press. Suffering, Arthur Kleinman, Veena Das and Margaret Lock, eds. pp. 67–92. Berkeley: Univer-

Dumit, Joseph, 2004 Picturing Personhood: Brain Scans and Biomedical Identity. Princeton: Princeton University Press.

Eccleston, Chris, Amanda C. De C. Williams, and Wendy Stainton Rogers, 1997 Patients' Identity Protection. Social Science and Medicine 45(5): 699-709 and Professionals' Understandings of the Causes of Chronic Pain: Blame, Responsibility and

Fields, Howard L., 2007 Setting the Stage for Pain: Allegorical Tales from Neuroscience. Kay Kaufman Shelemay, eds. pp. 36-61. Cambridge, MA: Harvard University Press. In Pain and Its Transformations: The Interface of Biology and Culture. Sarah Coakley and

Finerman, Ruthbeth, and Linda A. Bennett, 1995 Overview: Guilt, Blame and Shame in Sickness. Social Science and Medicine 40(1): 1-3.

Gamsa, Ann, 1994 The Role of Psychological Factors in Chronic Pain. II. A Critical Appraisal

Garro, Linda C., 1992 Chronic Illness and the Construction of Narratives. In Pain as Human Experience: An Anthropological Perspective. M. Good et al., eds, pp. 100-137. Berkeley:

Goldberg, Daniel S., 2009 Exilic Effects of Illness and Pain in Solzhenitsyn's Cancer Ward: How Sharpening the Moral Imagination Can Facilitate Repatriation. Journal of Medical

Good, Byron J., 1992 A Body in Pain – The Making of a World of Chronic Pain. In Pain as Berkeley: University of California Press. Human Experience: An Anthropological Perspective. M. Good et al., eds., pp. 29-48.

Good, Mary-Jo Delvecchio, Paul E. Brodwin, Byron J. Good, Arthur Kleinman, eds., California Press. 1992 Pain as Human Experience: An Anthropological Perspective. Berkeley: University of

Greenhalgh, Susan, 2001 Under the Medical Gaze: Facts and Fictions of Chronic Pain Berkeley: University of California Press.

Hardcastic, Valerie Gray, 1999 The Myth of Pain. Cambridge, MA: MIT Press

Hilbert, R. A., 1984 The Acultural Dimensions of Chronic Pain: Flawed Reality Construc-tion and the Problem of Meaning. Social Problems 31(4): 365–378.

Holdcroft, Anita, and Ian Power, 2003 Management of Pain. British Medical Journal 326:

Hough, Andrew, 2010 Acupuncture "Lessens Pain in Brain Not Body," Scientists Discover.

IASP (International Association for the Study of Pain), Subcommittee on Taxonomy, Daily Telegraph (London), February 6.

Pain Terms: A List with Definitions and Notes for Usage. Pain 6(3): 249.

PAIN: PAIN AND BODIES 385

Ingvar, Martin, 1999 Pain and Functional Imaging. Philosophical Transactions: Biological Sciences 354: 1387: 1347-1358.

Jackson, Jean E., 1994a The Rashomon Approach to Dealing with Chronic Pain, Social Science and Medicine 38(6): 823-833.

Jackson, Jean E., 1994b Chronic Pain and the Tension between the Body as Subject and Thomas Csordas, ed. pp. 201-228. Cambridge: Cambridge University Press. Object. In Embodiment and Experience: The Existential Ground of Culture and Self

ackson, Jean E., 2000 "Camp Pain": Talking with Chronic Pain Patients. Philadelphia University of Pennsylvania Press.

Jackson, Jean E., 2005a How to Narrate Chronic Pain? The Politics of Representation. Daniel Carr, and David Morris, eds. pp. 229-242. Seattle: International Association for the Study of Pain Press. In Narrative, Pain and Suffering. Progress in Pain Research and Management. John Loeser,

Jackson, Jean E., 2005b Stigma, Liminality, and Chronic Pain: Mind-Body Borderlands. American Ethnologist 32(3): 332-353.

Keefe, Francis J., and Christopher R. France, 1999 Pain: Biopsychosocial Mechanisms and Management. Current Directions in Psychological Science 8(5): 137-141.

Kempner, Joanna, 2006 Uncovering the Man in Medicine: Lessons Learned from a Case Study of Cluster Headache. Gender & Society 20(5): 632-656

Kirmayer, Laurence J., 1988 Mind and Body as Metaphors: Hidden Values in Biomedicine. Kluwer Academic. In Biomedicine Examined. Margaret Lock and Deborah Gordon, eds. pp. 57–93. Dordrecht:

Kleinman, Arthur, 1988 The Illness Narratives: Suffering, Healing and the Human Condition. New York: Basic Books.

Kleinman, Arthur, 1992 Pain and Resistance: The Delegitimation and Relegitimation of et al., eds. pp. 169-197. Berkeley: University of California Press. Local Worlds. In Pain as Human Experience: An Anthropological Perspective, M. Good

Kleinman, Arthur, 1995 What Is Specific to Biomedicine? In Writing at the Margin: California Press. Discourse between Anthropology and Medicine, pp. 21-40. Berkeley: University ę,

Kleinman, Arthur, Paul E. Brodwin, Byron J. Good, Mary-Jo DelVecchio Good, 1992 Pain as Human Experience: An Introduction. In Pain as Human Experience: An Anthropological

Koyama, Tetsuo, John G. McHaffic, Paul J. Laurienti and Robert C. Coghill Kotarba, Joseph A., 1983 Perspective. M. Good et al., eds. pp. 1-28. Berkeley: University of California Press. Chronic Pain: Its Social Dimensions. Beverly Hills: Sage.

jective Experience of Pain: Where Expectations Become Reality. PNAS 102(36) 12950-, 2005 The Sub-

Kugelmann, Robert, 1997 The Management and Psychology of Pain: Gate Control as Theory and Symbol. Theory and Psychology 7(1): 43-65.

Kugelmann, Robert, 1999 Complaining about Chronic Pain. Social Science and Medicine 49(12): 1663-1676.

Kugelmann, Robert, 2000 Pain in the Vernacular: Psychological and Physical, Journal of Health Psychology 5(3): 305-313.

Leder, Drew, 1990 Illness and Exile: Sophocles' Philoctetes. Literature and Medicine 9:1-11

Loeser, John D., 1991 What Is Chronic Pain? Theoretical Medicine 12: 213-215.

Locser, John D., 1996 Mitigating the Dangers of Pursuing Cure. In Pain Treatment Centers Campbell, eds. pp. 101-108. Seattle: International Association for the Study of Pain Press at a Crossroads: A Practical and Conceptual Reappraisal. Mitchell J. M. Cohen and James N.

Mattingly, Cheryl and Linda C. Garro, 2000 Narrative and the Cultural Construction of Illness and Healing. Berkeley: University of California Press

Melzack, Ronald, 1996 Gate Control Theory: On the Evolution of Pain Concepts. Pain Forum 5(2): 128-138

Melzack, Ronald, 1999 From the Gate to the Neuromatrix. Pain S6: S121–S126.
Melzack, Ronald and Patrick D. Wall, 1996 The Challenge of Pain. London: Penguin Books.
Merskey, Harold, 2004 Pain Disorder, Hysteria or Somatization? Pain Research and Management 9(2): 67–71.

Morris, David B., 1991 The Culture of Pain. Berkeley: University of California Press. Morris, David B., 1994 What We Make of Pain. The Wilson Quarterly. 18:4: 8–16, 18–26. Morris, David B., 2008 Diabetes, Chronic Illness and the Bodily Roots of Ecstatic Temporality.

Humanistic Studies 31: 399–421. Patterson, David R., 2004 Treating Pain with Hypnosis. Current Directions in Psychological

Science 13(6): 252–255. Noehaus, Alexander Irene Tracey Josenh & Gari Strant Clare Basi & Manon Banl M Mathema

Ploghaus, Alexander, Irene Tracey, Joseph S. Gati, Stuart Clare, Ravi S. Menon, Paul M. Matthews, J. Nicholas P. Rawlins, 1999 Dissociating Pain from its Anticipation in the Human Brain. Science 284: 1979–1981.

Price, Donald D., 2000 Psychological and Neural Mechanisms of the Affective Dimension of Pain. Science 288: 1769–1772.

Saberski, Lloyd, 2007 Pain and the Deceptive Disconnect. The Pain Clinic 19(6): 253–254.
Scarry, Elaine, 1985 The Body in Pain: The Making and Unmaking of the World. New York:
Oxford University Press.

Seybold, K., 2007 Physiological Mechanisms Involved in Religiosity/Spirituality and Health. Journal of Behavioral Medicine 30: 303–309.

Singer, T., B. Seymour, O'Doherty, J. et al., 2004 Empathy for Pain Involves the Affective but Not Sensory Components of Pain. Science 2004: 303(5661): 1157–1162.

Sturgeon John A. and Alex J. Zautra, 2010 Resilience: A New Paradigm for Adaptation to Chronic Pain. Current Pain and Headache Reports 14(2): 105–112.
Sullivan, Amy Burleson, 2007 Role of Exercise in Manazine Chronic Pain. The Pain Clinic

Sullivan, Amy Burleson, 2007 Role of Exercise in Managing Chronic Pain. The Pain Clinic 19(6): 263-269.
Sullivan Mark D. 1005 Data in Language Exercise in Contrast of the Contrast

Sullivan, Mark D., 1995 Pain in Language: From Sentience to Sapience. Pain Forum 4(1): 3–14. Tait, Raymond C., 2008 Empathy: Necessary for Effective Pain Management? Current Pain and Headache Reports 12(2): 108–112.

Taylor, Renée R., 2006 Pain: Subtypes, Prevalence, and Associated Conditions. In Cognitive Behavioral Therapy for Chronic Illness and Disability. Chapter 16, pp. 237–254. New York: Springer-Verlag.

Thernstrom, Melanie, 2010 The Pain Chronicles: Cures, Myths, Mysteries, Prayers, Diaries, Brain Seans, Healing, and the Science of Suffering. New York: Farrar, Straus and Giroux.
 Throop, C. Jason, 2002 Experience, Coherence, and Culture: The Significance of Dilthey's

Inroop, C. Jason, 2002 Experience, Coherence, and Culture: The Significance of Dilthey's "Descriptive Psychology" for the Anthropology of Consciousness. Anthropology of Consciousness 13(1): 2–26.

Tracey, Irene, 2005 Taking the Narrative Out of Pain: Objectifying Pain through Brain Imaging. In Narrative, Pain and Suffering. Progress in Pain Research and Management. John Loeser, Daniel Carr, and David Morris, eds. pp. 127–163. Seattle: International Association for the Study of Pain Press.

Trnka, Susanna, 2007 Languages of Labor: Negotiating the "Real" and the Relational in Indo-Fijian Women's Expressions of Physical Pain. Medical Anthropology Quarterly 21(4): 388–408.

Turner, Bryan, 1991 Recent Developments in the Theory of the Body. In The Body: Social Process and Cultural Theory. Mike Featherstone, Mike Hepworth and Bryan S. Turner, eds. pp. 1–35. London: Sage.

Wachholtz, Amy B. and Michelle J. Pearce, 2009 Does Spirituality as a Coping Mechanism Help or Hinder Coping with Chronic Pain? Current Pain and Headache Reports 13(2): 127–132.

Watkins, Linda R. and Steven F. Maier, 2003 When Good Pain Turns Bad. Current Directions in Psychological Science, 12(6): 232–236.

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PAIN: PAIN AND BODIES 387

Whelan, Emma, 2003 Putting Pain to Paper: Endometriosis and the Documentation of Suffering. Health: An Interdisciplinary Journal for the Social Study of Health, Illness and Medicine 7(4): 463–482.

Worzer, Whitney E., Nany D. Kishino, Robert J. Gatchel, 2009 Primary, Secondary, and Tertiary Losses in Chronic Pain Patients. Psychological Inquiry and Law 2: 215–224.

Wright, Liss Johnson, Noloofar Afari, Alex Zautra, 2009 The Illness Uncertainty Concept: A Review. Current Pain and Headache Reports 13(2): 133–138.

Zborowski, Mark, 1969 People in Pain. San Francisco: Jossey-Bass.

Zola, Irving K., 1966 Culture and Symptoms: An Analysis of Patients' Presenting Complaints. American Sociological Review 31: 615–630.