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THE LEGAL AND MEDICAL ASPECTS OF PHYSICAL RESTRAINTS AND BED SIDERAILS AND THEIR RELATIONSHIP TO FALLS AND FALL-RELATED INJURIES IN NURSING HOMES

Julie A. Braun and Elizabeth A. Capezuti

INTRODUCTION

Falls and fall-related injuries are a leading cause of lawsuits against nursing homes.¹ Historically, physical restraints and bed siderails were viewed as a risk-management tool to prevent or reduce falls and, consequently, the possibility of litigation.² However, no clinical study

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¹See Laurence Z. Rubenstein, Preventing Falls in the Nursing Home, 278 JAMA 595, 596 (1997).

²Sandra H. Johnson, The Fear of Liability and the Use of Restraints in Nursing Homes, 18 LAW, MED. & HEALTH CARE 263, 264 (1990) ("There is no doubt that the legal system plays a role in risk aversion and the use of restraints in nursing homes."); Marshall B. Kapp, Malpractice Liability in Long-Term Care: A Changing Environment, 24 CREIGHTON L. REV 1235, 1242-43 (June 1991) ("Since the pervasive fear of liability based on patient falls has, at least in part, fueled an excessive reliance over the years in American nursing homes on the
demonstrates that any intervention, including restraints, unequivocally prevents falls or fall-related injuries. In fact, “one-half of all falls occur among restrained residents” and “serious injury rates are higher in facilities that use restraints.” Further, physical restraints and siderails pose risks in addition to fall-related injuries.

This article begins by presenting background information on physical restraints, siderails, and falls. Next, it considers the prevalence of restraint and siderail use in nursing homes located in the United States and, for comparison purposes, other countries. A diverse selection of clinical studies examining restraint and bed siderail use and their relationship to falls and fall-related injuries follows. This section is supplemented by a review of interventions that replace siderails and prevent bedside falls and injuries. Further, the article explains how physical restraints and siderails pose risks in addition to fall-related injuries. The article continues with a brief overview of the many physical and psychological consequences of physical restraint and siderail use.

Then attention shifts to restraint use within the context of direct, explicit regulation by the federal government and by each of the states. Highlights include the impact of professional standards of practice, use of physical (mechanical) restraints in a purported attempt to assure resident safety, the liability implications of falls and the practice of using restraints must logically be discussed together.” [hereinafter Malpractice Liability in Long-Term Care]; Julie A. Braun & Elizabeth Capezuti, Siderail Use and Legal Liability in Illinois Nursing Homes, 88 ILL. B.J. 324, 325 (June 2000) (discussing briefly the history of siderail usage from the 1930s to present).

See Wayne A. Ray et al., A Randomized Trial of a Consultation Service to Reduce Falls in Nursing Homes, 278 JAMA 557, 557 (1997) (“Falls are a major health problem in nursing homes, but no interventions have been shown to prevent falls in nursing home residents.”).


Id. at 48 citing Lois K. Evans et al., Redefining a Standard of Care for Frail Older People; Alternatives to Routine Physical Restraint, in ADVANCES IN LONG-TERM CARE 81, 81-108 (Paul R. Katz et al. eds., 1990).


As used herein, the term nursing home refers to facilities that meet the requirements for a state license “to provide, on a regular basis, health-related services to individuals who do not require hospital care, but whose mental or physical condition requires services that are above the level of room and board and can be made available only through institutional facilities.” 42 C.F.R. § 440.155(a) (1999). As used herein, nursing home encompasses facilities that are freestanding or hospital-based. In addition, their ownership may be proprietary, nonprofit, or governmental.

Brungardt, supra note 4, at 43-44 citing Evans, supra note 5 at 81-108.
major organizational positions on restraints, and voluntary accreditation standards on the evolving standard of care.

Overall, the article places the risk of liability in a realistic perspective, reasoning that, in most situations, an individualized assessment of fall risk best serves legal and nursing home resident's interests. It concludes by exploring risk management strategies that eliminate or substantially reduce the legal exposure of nursing homes.

**WHAT ARE RESTRAINTS?**

Physical restraints include "[a]ny manual method or physical or mechanical device, material, or equipment attached or adjacent to the resident's body that the individual cannot remove easily which restricts freedom of movement or normal access to one's body." Examples include, but are not limited to, leg and arm restraints, hand mitts, lap cushions and lap trays the resident cannot remove, waist/belt restraints, pelvic restraints, chest/pelvic combination restraints commonly referred to as "Houdini" suits, and vest/chest/jacket restraints. "Such inhibitions in mobility have most often been justified on the basis of perceived benefits in managing fall risk, treatment interference, or dementia-related behavioral symptoms such as agitation and wandering." However, no scientific data supports the efficacy of restraints used in this manner.

**Nursing Home Practices as Restraints**

Certain nursing home practices satisfy the definition of a restraint, such as: using bed rails to keep a resident from voluntarily getting out of bed as opposed to enhancing mobility while in bed; tucking in a sheet so tightly that a bed-bound resident cannot move; using wheelchair safety

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9Following the terminology used in federal regulations, 42 C.F.R. § 483.10 (1999), the authors refer to individuals who have been admitted to nursing homes as residents rather than patients.

10U.S. DEP'T HEALTH & HUM. SERVS., HEALTH CARE FIN. ADMIN., GUIDANCE TO SURVEYORS—LONG-TERM CARE FACILITIES (Transmittal 274, June 1995), PP-44 [hereinafter HCFA GUIDANCE].

11See id. at PP-45.


13See id.
bars to prevent rising out of a chair; placing a resident in a chair that prevents rising; and placing a wheelchair-bound resident so close to a wall that the wall prevents the resident from rising.  

S Seclusion, the involuntary confinement of a nursing home resident alone in a unit or room that the person is physically prevented from leaving, may also be characterized as another form of restraint.  

Siderails as Restraints
Siderails are adjustable metal or rigid plastic bars that attach to a nursing home or hospital bed. They come in a variety of sizes (full, half, and one-quarter length) and shapes. Most nursing homes use two full-length siderails with wide vertical bars. “Depending on their purpose, siderails may or may not be restraints.” Whether a siderail is a restraint depends on how it functions for the particular individual for whom it is being used, not on what type of rail, size rail, or time of use. When siderails impede the resident’s desired movement or activity (such as getting out of bed when that resident wants to get out of bed) they meet the definition of a restraint. Siderails used on the bed of a completely immobile resident (for example, to prevent a comatose individual from falling out of bed), while not necessary, are not considered restraints because that person is not trying to leave the bed. If a resident chooses to use siderails for enhancing mobility in

14HCFA GUIDANCE, supra note 10, at PP-45.
17See id.
18See id.
19See id.
20See id.
21See id.
22See id.
and out of bed, then the siderails are not restraints. Siderails must be evaluated as a restraint when they serve multiple purposes (that is, facilitating in-bed mobility and keeping the resident from getting out of bed when the resident wants to get out of bed).

FALLS

A fall is defined as an event in which a person inadvertently or intentionally comes to rest on the ground or some other lower level (such as a chair, toilet or bed) after losing balance during walking or some other activity. A fall-related serious injury may result in medical treatment including hospitalization, emergency department visit, physician visit, or on-site radiological examination. Serious injuries might include fractures; head injuries with altered consciousness; joint dislocations or sprains; or sutured lacerations.

Nearly one third of people 65 years of age or older fall each year. Fall risk increases with age and is much higher among nursing home residents than among older adults living in the community. In a typical 100-bed nursing home, between 100 and 200 falls are reported

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23 See id.
24 SIDERAILS INTERIM POL’Y, supra note 19.
25 MERCK MANUAL OF GERIATRICS 65, 65 (William B. Abrams et al. eds., 2d ed. 1995) ("Medical personnel usually define a fall as an event in which a person comes to rest on the ground or some other lower level after losing balance during walking or some other activity."). available at http://www.merck.com/pubs/mm_geriatrics (last visited Sept. 3, 2000).
each year; many more go unreported. Dr. Rein Tideiksaar, a recognized authority on the topic of falls, estimates that more than 50 percent of nursing home residents fall annually; over 40 percent experience repeat fall occurrences. About 11 percent of falls result in significant injury (such as hip fractures), often leading to hospitalization and further physical deterioration. Falls are a major cause of death among older adults. About 20 percent of all fall-related deaths occur in the five percent of elderly persons residing in nursing homes.

The most commonly reported reason for the use of physical restraints and siderails is to protect a nursing home resident. Specifically, restraints and siderails are used to safeguard residents from

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29 See Rubenstein, supra note 1, at 596.
30 See Rein Tideiksaar, Falls in Older Persons: Prevention and Management 1 (Health Professions Press 2d ed. 1998) [hereinafter Tideiksaar 1998]. This book discusses the consequences of falls (mortality, morbidity, family concerns and institutional effects); reviews the intrinsic and extrinsic causes of falls; identifies risk factors for falls and injury; considers environmental modifications (such as lighting, floor surfaces, hallways, beds, seating, tables and nightstands, and storage areas); details the clinical assessment and evaluation of fall risk and fall history; describes interventions that reduce fall risk including medical, rehabilitative, and environmental strategies as well as fall prevention programs; and evaluates reducing physical and chemical restraint use while decreasing fall risk. The appendix offers a performance-oriented environmental mobility screen; ambulation device measurement; ambulation device utilization; home fall prevention handouts; and case studies for self-study or training. For more information, write Health Professions Press, P.O. Box 10624, Baltimore, MD 21285-0624 or telephone toll-free (888) 337-8808. See also Rein Tideiksaar, Falls in Older Persons: Prevention and Management in Hospitals and Nursing Homes 1 (Tactilitics 1st ed. 1993) [hereinafter Tideiksaar 1993]. This book advocates individual fall risk assessment and management. Chapter One reviews the consequences of falls in terms of outcomes for patients, families, and institutions. Chapter Two identifies the causes of falls including age-related physiological changes and pathological conditions, medications, and environmental factors. Chapter Three focuses on the clinical assessment and evaluation of falls and fall risk. Chapter Four discusses strategies for reducing fall risk. Chapter Five presents environmental modifications (such as lighting, ground surfaces, and furnishings) aimed at enhancing mobility and decreasing fall risk. Chapter Six educates the reader on the relationship between physical restraints and falls and fall-related injuries. For more information, write Tactilitics, Inc., 5595 Arapahoe Road, Suite B, Boulder, CO 80303 or telephone (800) 727-1868.

31 See Rubenstein, supra note 1, at 596.
33 See Rubenstein, supra note 1, at 596.
falls and fall-related injury. An additional reason for restraint and siderail use is the fear of liability should the resident fall and sustain injury.

A research study of staff attitudes toward restraint use found that nurses ranked falling, violent behavior, interfering with treatment, confusion, and poor judgment as the most frequent rationales for restraining residents. Moreover, study results demonstrated that falling was significantly more important than all other reasons. As with other studies, the fear of lawsuits subsequent to resident falls remained a pivotal reason for applying restraints. A review of restraint use in the practice of medicine concluded that the most common reason for restraint use was resident protection including preventing falls, protecting medical devices (such as nasogastric tubes, Foley catheters, and endotracheal tubes), and controlling agitated behavior or wandering. In another study, a questionnaire eliciting information regarding restraint use revealed that the most important reasons to restrain a resident included preventing self-injury, injury to

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35See Heather Bryant & Lori Fernald, Nursing Knowledge and Use of Restraint Alternatives: Acute and Chronic Care, 18 GERIATRIC NURSING 57, 60 (1997) ("In the chronic care setting the predominant reasons that [residents] were restrained was to prevent falls or self harm,"); Perla Werner, Reducing Restraints: Impact on Staff Attitudes, 20 J. GERONTOLOGICAL NURSING 19, 21 (1994) ("[R]easons for use of restraints that were cited as more important were protecting an older person from falling and preventing an older person from pulling out a catheter, feeding tube, or intravenous line."); see Tinetti, Mechanical Restraint Use, supra note 26, at 369 ("Prevention of fall-related injury and wandering are the most frequently cited reasons for restraining residents."); Johnson, supra note 2, at 263 ("Restraints are used in an attempt to protect the [resident] from avoidable injury caused by falling."").

36See generally, Johnson, supra note 2, at 263.

37See Sally B. Hardin, Extended Care and Nursing Home Staff Attitudes Toward Restraints, 20 J. GERONTOLOGICAL NURSING 23, 28 (1994).

38See id.


41See id.
Similarly, a restraint reduction program examining perceptions of and knowledge about restraint use among staff members identified three important reasons for using restraints: preventing self-removal of (pulling on) an intravenous line, breaking open of sutures, and preventing a fall. These reasons corroborate the work of other researchers.

It is not unusual for a resident’s family to express the fear of their loved one falling and insist on physical restraints and/or siderails to prevent this occurrence. Family members of nursing home residents who fall (are single fallers, that is, those who would not be likely to fall again, or multiple fallers, that is, those who fall more than once) may feel guilty about the fall event and blame themselves for not preventing it. Alternatively, they may blame the nursing home for allowing the fall to happen, sometimes even accusing the staff of neglect.

In March 1999, the Council on Scientific Affairs of the American Medical Association issued recommendations that encourage “physicians to communicate the consequences, risks, and potential benefits of restraint use with family members of residents who ask for restraints.” In addition, nursing home staff, physical/occupational therapists, and social workers should educate family members about safety measures and fall prevention. For example, instruction on how to identify environmental hazards that cause falls (such as poor lighting, highly polished floor or wet flooring) and interventions staff are using to address the resident’s fall risk should be discussed. Family members are more

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42 See Janelli, supra note 34, at 19.
44 See id. at 13; Diane Stratmann et al., The Effects of Research on Clinical Practice: The Use of Restraints, 10 APPLIED NURSING RES. 39 (1997) (relating the reasons for restraining residents at extended care and nursing home units in a Southeastern Veterans Affairs facility including preventing falls and fall-related injury (58%); preventing tube removal (22%), wandering (13%) and resident positioning (4%).
45 See Janelli, supra note 34, at 20; Johnson, supra note 2, at 264 (noting that family members may expect that restraints should be used and that their absence reflects bad care.)
46 See Janelli, supra note 34, at 20.
47 See Johnson, supra note 2, at 264.
49 See id. at 104-05.
accepting of restraint removal when staff assures them that their family member’s fall risk will be addressed with other interventions.50

TRENDS IN RESTRAINT PREVALENCE

Prevalence of Physical Restraint Use in the United States

The Health Care Financing Administration’s (“HCFA”) Online Survey Certification and Reporting (“OSCAR”) system compiles data from resident census surveys.51 All states are included.52 The numbers reflect the subjective judgment of the reporting nursing homes.53 For example, some facilities may not report siderails used as restraints or fail to include restraints that they believe are used for resident safety.54 Conversely, there may be overreporting by some facilities that include every siderail as a restraint, even when not functioning as such.55 Analysis of this statistical information reveals restraint use at the national, regional, and state level.56 In addition, the data identifies trends in restraint prevalence.57

Recent OSCAR statistics show that the number of restrained nursing home residents nationwide has been reduced to 13.5 percent from 20 percent in 1996, and 40 percent in the early 1990s.58 This

50See id. at 102, 104.
51Eric M. Carlson, LONG-TERM CARE ADVOCACY FORM 10.302 (Sept. 1999) (providing a sample OSCAR report summarizing information from a federally certified nursing facility) [hereinafter Carlson]. Facility-specific data regarding federally certified nursing homes is available at http://www.medicare.gov/NHCompare/home.asp (last visited Sept. 9, 2000). The data from the Internet is considerably less detailed than the data contained in an OSCAR report.
52See, e.g., OSCAR Resident Census Data (June 4, 1998) (copy on file with author) (detailing restraint rates for all states) [hereinafter OSCAR CENSUS DATA]. An OSCAR report is available from the appropriate HCFA regional office upon submission of a Freedom of Information Act (5 U.S.C. § 552) request and payment of the required fee.
54See id.
55See id.
56See, e.g., OSCAR CENSUS DATA, supra note 52 (conveying national, regional, and state restraint rates).
57Id. (showing state restraint rates sorted by rate, the highest 20 state restraint rates, percent of residents restrained regionally, and the top 10 state increases and decreases as compared to an earlier OSCAR report).
58See HEALTH CARE FIN. ADMIN., HCFA National Restraint Reduction Newsletter (Jerry Arzt ed., Win. 1999), available at
seems to reflect a perennial national resolve to reduce restraint prevalence to the lowest possible level. Although, it is important to note considerable variation exists when comparing state restraint rates. The authors are not aware of any empirical studies identifying the reasons for such broad variations among the states.

**Siderail Use in the United States**

No national figures for siderail prevalence exist due in part to the OSCAR and Minimum Data Set reporting systems that rely on the subjective judgment of the nursing homes in relating their use of siderails as restraints. Two studies report prevalence rates of 62 percent to 64.1 percent of bilateral full-length siderail usage in samples of nursing home residents collected between 1990 and 1992. Data from an ongoing study of siderail use in three nursing homes found in 1999 bilateral siderails are used with approximately 40 to 70 percent of nursing home residents.

**Physical Restraint and Siderail Use in Other Countries**

Restraint use in long-term and acute care environments varies among countries and institutions. Research conducted in Scotland and Sweden demonstrated that restraints are rarely employed and yet the incidence of injurious falls in these settings is no greater than in settings where restraints are regularly employed.

A study conducted in a British hospital found that no physical restraints were used; however, 8.4 percent of patients had full-length siderails.
siderails raised.\textsuperscript{65} Despite such low usage compared to American hospitals, the researchers questioned the appropriateness of bedrails.\textsuperscript{65} A British medical journal editorial described the "absurd" and "distasteful" use of siderails in the United States.\textsuperscript{67} The British aversion toward siderails is traced to a 1975 policy established by the Joint Working Party of the British Geriatrics Society and the Royal College of Nursing that clearly discourages routine bedrail use.\textsuperscript{63}

A series of surveys conducted in four areas of Australia uncovered regional differences in physical restraint and siderail usage.\textsuperscript{69} The restraint prevalence among a sample of 36,000 nursing home residents ranged from 15.3 percent to 26 percent.\textsuperscript{70} Of those restrained, the most frequently used restraints were siderails.\textsuperscript{71} Australian nurses, like those in the United States, frequently restrained residents due to fear of legal liability.\textsuperscript{72} Interestingly, such fears are not raised in the British literature.

A study compared restraint type and prevalence in Denmark, France, Ireland, Italy, Japan, Spain, Sweden, and the United States finding trunk restraints are more prevalent in Sweden and the United States than other restraint types.\textsuperscript{72} In other countries, a chair that prevents rising is the most common form of restraint, while limb restraint is the least common.\textsuperscript{74} In general, the study found a very low

\textsuperscript{65}See Shaun O'Keefe et al., \textit{Use of Restraints and Bedrails in a British Hospital}, 44 J. AM. GERIATRICS SOC'Y 1085, 1086-88 (1996).
\textsuperscript{66}See id.
\textsuperscript{70}See id.
\textsuperscript{71}See id.
\textsuperscript{72}See id.
\textsuperscript{73}Gunnar Ljunggren et al., \textit{Comparisons of Restraint Use in Nursing Homes in Eight Countries}, 26 SUPPL. AGE & AGEING 43, 43-44 (1997).
\textsuperscript{74}See id.
prevalence of restraint use in Denmark, Iceland, and Japan with less than 9 percent of residents restrained at any time.\textsuperscript{75} Between 15 and 17 percent of the residents surveyed were restrained in France, Italy, Sweden, and the United States.\textsuperscript{76} In contrast, almost 40 percent were restrained in Spain.\textsuperscript{77} Restraint practice patterns were attributed to cultural backgrounds and ethical positions.\textsuperscript{78}

**RESEARCH STUDIES: PHYSICAL RESTRAINTS**

At present, there is no scientific basis to support the efficacy of restraints in preventing injury to nursing home residents.\textsuperscript{79} Most research studies conclude that using physical restraints and siderails does not reduce the risk or incidence of falls, other accidents, or disruption of medical care when appropriate alternative interventions are provided.\textsuperscript{80} In fact, research findings unequivocally suggest that restraints and siderails cause more problems than they prevent.\textsuperscript{81}

**Restrained Residents Still Fall**

Physical restraint use is based on a general belief that restriction of a body part will prevent movement that could lead to falls.\textsuperscript{82} However, numerous studies report a significant incidence of falls and injury among restrained older persons.\textsuperscript{83} A study exploring the relationship

\begin{itemize}
  \item \textsuperscript{75}See id.
  \item \textsuperscript{76}See id.
  \item \textsuperscript{77}See id.
  \item \textsuperscript{78}See Ljunggren, supra note 73, at 46.
  \item \textsuperscript{79}See Guttman, supra note 48, at 103.
  \item \textsuperscript{80}See Guttman, supra note 48, at 105.
  \item \textsuperscript{81}See id.
  \item \textsuperscript{82}See Capezuti & Talerico, supra note 12, at 341.
between restraint use and falls among 332 confused ambulatory residents in three Philadelphia-area skilled and intermediate care nursing homes over 9.5 months found that restraints were not associated with a significantly lower risk of falls or fall-related injuries. These findings support individualized assessment of fall risk rather than routine restraint use for fall prevention. This study provides further “compelling evidence that restrained residents still experience falls” and challenges the effectiveness of restraints in preventing falls and fall-related injuries.

Physical Restraints Exacerbate Falls and Fall-Related Injuries
A one-year study evaluating restraint use among previously unrestrained ambulatory nursing home residents at 12 skilled nursing home facilities in southern Connecticut revealed that restraints were used most frequently, according to nurses’ reports, to prevent falls and injuries. Ironically, study results associated restraints with continued, and perhaps increased, occurrence of serious injurious falls. These results question the effectiveness of restraints in preventing falls and fall-related injuries.

Restraint Removal Does Not Increase Falls or Fall-Related Injuries
Providing evidence that restraint reduction does not lead to a significant increase in falls and injuries is crucial to changing beliefs about restraint use and the practice of prolonged physical restraint. In the last decade, several empirically based studies of restraint reduction have

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Use, supra note 26, at 369-74; Ann Walshe & Harry Rosen, A Study of Patient Falls from Restraints in a Skilled Nursing Facility, 9 J. NURSING ADMIN. 31 (1979); Henry M. Wieman & Mary E. O’lear, Falls and Restraint Use in a Skilled Nursing Facility, 34 J. AM. GERIATRICS SOC’Y 907 (1980)


"See id. at 627.


"See id.

"See Tinetti, Mechanical Restraint Use, supra note 26, at 372.

"See Tinetti, Restraint Prevalence, Patterns, and Predictors, supra note 62.

"See id. at 372.

"See Tinetti, Mechanical Restraint Use, supra note 26, at 369, 372
demonstrated that restraints can be removed without negative consequences.  

A clinical trial tested the relationship between restraint removal and falls and fall-related injuries using two different statistical designs. First, multiple logistic regression was used to compare fall/injury rates in a sample of nursing home residents who had restraints removed to those who continued to be restrained. Restraint removal was associated with a significantly lower fall and minor injury rate. Second, researchers compared fall/injury rates among three homes with varying rates of restraint reduction. Restraint removal was associated with a significantly lower fall rate. Removal also significantly decreased the chance of minor fall-related injuries. In contrast, the nursing home experiencing the least restraint reduction (11 percent) had a 50 percent higher fall rate and more than twice the rate of fall-related minor injuries when compared to the homes with 23 and 56 percent restraint reduction, respectively. Additionally, researchers examined the effect of nighttime (that is, in bed) restraint removal and found no difference in fall rates between a subsample of 51 nursing home residents with restraints removed compared to 11 who continued to be restrained in bed. Both studies strongly concluded that removing restraints does not increase resident falls or subsequent fall-related injury.

Several other studies have confirmed these findings. A clinical nurse specialist successfully implemented a restraint reduction program

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92Lois K. Evans, et al., A Clinical Trial to Reduce Restraints in Nursing Homes, 45 J. AM. GERIATRICS SOC’Y 675, 675-81 (1997) [hereinafter Clinical Trial to Reduce Restraint Use].

93See id.

94See id.

95See id.

96See id.

97See Evans, supra note 92, at 676-81.

98See id.


100See id.
at a 250-bed Baltimore nursing home where staff voiced their concerns about "falls and personal and professional liability for resident injury and wandering." \footnote{101} The fall rate decreased by nearly half during the first three months of restraint reduction efforts while the rate of serious injuries remain unchanged. \footnote{102} After one year, the restraint rate declined from 57 to 10 percent while the fall rate remained stable. \footnote{103} Similarly, a study conducted in a 816-bed academic nursing facility reported a reduction in physical restraint prevalence from 39 percent to 4 percent over three years, without any increase in fall or injury rates. \footnote{104}

A series of studies examining restraint use in extended care and nursing home units in a Southeastern veterans' facility revealed that decreasing the number of restrained residents did not increase falls. \footnote{105} Restraint use decreased by almost half (from 25 to 14 percent) following policy change and in-service education programs. \footnote{106} For example, to comply with the Joint Commission on Accreditation of Healthcare Organization's ("JCAHO") long-term care standards, facility policy was changed to require a physician's prescription before applying restraints. \footnote{107} Additional changes required discussing the decision to restrain with the resident and family. \footnote{108} Educational efforts concentrated on the negative effects of restraints, the importance of resident autonomy, and restraint alternatives. \footnote{109}

**Serious Injuries Do Not Increase Upon Restraint Removal**

A two-year restraint-reduction project involved 16 skilled nursing facilities in California, Michigan, New York, and North Carolina. \footnote{110} All had restraint rates above the national average with an aggregate

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\footnote{101}{Joan D. Kramer, Reducing Restraint Use in a Nursing Home, \textit{J CLINICAL NURSE SPECIALIST} 158, 160 (1994).}
\footnote{102}{See id. at 161.}
\footnote{103}{See id.}
\footnote{104}{See Jeffrey M. Levine et al., Progress Toward a Restraint-Free Environment in a Large Academic Nursing Facility, \textit{41 J. AM. GERIATRICS SOC'y} 914, 914-18 (1995).}
\footnote{105}{See Stratmann, \textit{supra} note 44, at 39.}
\footnote{106}{See id. at 41.}
\footnote{107}{See id.}
\footnote{108}{See id.}
\footnote{109}{See id. at 40.}
\footnote{110}{See Richard R. Neufeld et al., Restraint Reduction Reduces Serious Injuries Among Nursing Home Residents, \textit{47 J. AM. GERIATRICS SOC'y} 1202 (1999).}
restraint rate of 41 percent when the project began. At the end of the study, the aggregate restraint rate had declined to 4.05 percent. Like other studies, this one found that restraints did not prevent fall-related injuries. In fact, moderate (injuries requiring medical attention) and serious injuries (those requiring immediate medical attention including lacerations requiring sutures, all fractures and injuries requiring transfer to the hospital) declined significantly after restraint removal. At the same time, minor injuries (such as bruises or skin tears) increased minimally.

Similarly, incident reports documenting falls were examined over a one-year period (six months before and after restraint removal) in two large (over 150 beds) non-profit skilled nursing facilities in Ohio. While non-serious (no treatment, first aid, bruise or cut, or X-ray) falls increased, serious (hematoma, unconsciousness, stitches, fracture, hospital evaluation or admission, or death) falls did not. Researchers recommend fall management programs while restraint reduction is being implemented.

**Individualized, Multifactorial Intervention Reduces Falls**

Most falls in the elderly are due to both intrinsic (health problems, frailty, and sensory deficits such as poor vision/hearing) and extrinsic factors (environment such as slippery floors, uncomfortable seating, bed height). In the last decade, several fall intervention studies have demonstrated the effectiveness of employing an individualized, multifactorial intervention to reduce falls among both community-residing and institutionalized older adults. These fall prevention

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111 See id. at 1205.
112 See id.
113 See id. at 1205-06.
114 See id.
115 See Neufeld, supra note 110, at 1205-06.
117 See id. at 698.
118 See id.
programs identify each individual’s risk factors (assessment) and then target the intervention(s) to correct, or at least compensate for the problem(s). In general, effective fall prevention programs address medication side effects; demand appropriate observation of the restrained resident; facilitate safe mobility and transfer with human and/or device assistance as well as restorative/rehabilitative programs; consider a resident’s pain/comfort needs; and create comfortable, individualized seating and bed environments.

Research supports interventions to promote activity, not immobilization, a complication of restraint use. Unfortunately, clinical trials of exercise with falls as an outcome have not targeted persons over 75 years of age. However, evidence exists that exercise programs are effective in improving strength and balance, and thus reducing the risk factors for falls, among older individuals. The Frailty and Injuries: Cooperative Studies of Intervention Techniques (“FICSIT”) demonstrated, in a nursing home population whose mean age was 87 years, that a progressive resistance exercise training intervention significantly increased muscle strength, gait velocity, the ability to climb stairs, and the general level of physical activity.

Individualized care plans, which address risk factors specific to each nursing home resident, are the best way to prevent falls and fall-related injury. Changing embedded practices such as use of physical restraints, requires intensive re-education of staff and consultation by gerontology experts (physicians, nurses, and physical or occupational therapists, for example) to assist nursing home staff with residents that pose difficult clinical challenges.

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121 See Tinetti, supra note 120, at 821-27.
122 See Capezuti, Interventions to Prevent Bed-Related Falls and Reduce Rail Use, supra note 64, at 26-34; Amy Mosley et al., Initiation and Evaluation of a Research-Based Fall Prevention Program, 13 J. NURSING CARE QUALITY 38, 38-44 (1998); Ray, supra note 3, at 557-62; Rubenstein, supra note 1, at 595-96; Laurence Z. Rubenstein et al., Falls in the Nursing Home, 121 ANNALS INTERNAL MED. 442, 442-51 (1994) [hereinafter Falls in the Nursing Home].
123 See Maria A. Fiatrone et al., Exercise Training and Nutritional Supplementation for Physical Frailty in Very Elderly People, 330 N. ENG. J. MED. 1769, 1769-75 (1994).
Fall Intervention Programs Best Incorporated into Practice if Introduced by Education and Consultation

Evans, Strumpf and their colleagues at the University of Pennsylvania School of Nursing are responsible for the first controlled clinical trial testing the effects of interventions to reduce restraints. A one-year trial involving three Philadelphia-based skilled and intermediate care nursing homes concluded that a six-month educational program combined with unit-based, resident centered consultation effectively and safely reduces restraint use. "Clinically relevant and statistically significant levels of restraint reduction can be achieved without . . . serious [fall-related] injuries." Restraint education combined with consultation resulted in an average reduction in restraint use of 56 percent.

Other restraint reduction and fall prevention projects have successfully employed this education-consultation model. For example, a consultation program designed to prevent falls and injuries in high-risk nursing home residents yielded optimistic results. Fourteen Tennessee nursing homes were randomly assigned as intervention or control sites. At the intervention sites, residents with a high fall risk were given interdisciplinary assessments of their living environment, mobility and assistive devices, medication regimens, and personal safety activities. Then, recommendations were developed and implemented. Residents in the intervention homes experienced significantly fewer (19 percent) recurrent falls (defined as two or more) as well as (50 percent) fewer injurious falls at the end of the follow-up period.

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125 See Evans, Clinical Trial to Reduce Restraint Use, supra note 92, at 680.
126 See id. at 675-76.
127 See id. at 680.
128 See id. at 675, 677.
130 See Ray, supra note 3, at 558.
131 See id.
132 See id. at 557-58.
year. The consultation program results demonstrated that “[t]he high rate of falls and related injuries in nursing homes should not be viewed as inevitable, but as outcomes that can be substantially improved through structured safety programs.”

Restraint Reduction Program Decreases Bedrail Use
A restraint-reduction program in a 265-bed private, non-profit nursing home located in Dallas, Texas achieved a 30.8 percent decrease in the number of restrained residents over a 14-month period. The program emphasized the benefits of restraint removal over the risks of resident falls reasoning that restraint use is ineffective in preventing falls and produces negative psychological and physical effects. Bedrails were the most commonly used restraint and represented the greatest decrease in restraint use. Because bedrails were attached to most beds in the facility, the possibility existed for their inappropriate and frequent use.

RESEARCH STUDIES: SIDERAIlS
As with other types of restraints, bed siderail use is based on the mistaken belief that siderails prevent falls and fall-related injuries. Another misconception is that siderails are an effective and/or benign safety device. Ironically, the most common form of injury to persons enclosed by siderails occurs when the resident climbs over an elevated rail and falls at the bedside. University of Minnesota research indicates that vest restraints increase the likelihood that a falling resident will be suspended and suffocate. This research also finds an

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133 See id. at 561.
134 See id. at 562.
136 See id. at 386.
137 See id. at 383.
138 See id. at 385.
139 See id.
140 See SIDERAIlS INTERIM POL'Y. supra note 19.
141 See id.
142 Steven H. Miles & Patrick Irvine, Deaths Caused by Physical Restraint - 32 GERONTOLOGIST 762, 765 (1992); Steven H. Miles, A Case of Death in Physical Restraint
entrapment hazard. Finally, siderails pose the same adverse effects of other restraints including, but not limited to, increasing immobility, deleterious psychological effects, urinary incontinence, and infections. From a risk management perspective, siderails cannot be viewed as inconsequential attachments to nursing home beds. Their clinical efficacy has never been demonstrated.

**Effect of Siderails on Falls and Injuries**

As early as 1983, Rubenstein and colleagues of Harvard University questioned the efficacy of siderails in preventing falls from bed. While design of numerous other studies of falls and injuries did not include siderails as a risk factor, the researchers noted in their findings a surprisingly significant incidence of falls and injuries where siderails were used. Several editorials and reviews of the falls literature also

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143 See id.

144 See id.

145 See Capezuti, Interventions to Prevent Bed-Related Falls and Reduce Rail Use, supra note 64, at 26-34; Elizabeth Capezuti et al., Individualized Assessment and Intervention in Bilateral Siderail Use, 19 Geriatric Nursing 322, 322-30 (1998) [hereinafter Assessment and Intervention in Rail Use]; Capezuti, Relationship between Restraint Removal and Falls and Injuries, supra note 124, at M52 citing Maggie Donius & Joanne Rader, Use of Siderails: Rethinking a Standard of Practice, 20 J. Gerontological Nursing 23, 23-27 (1994); Todd, supra note 6, at 1675-77 (reviewing FDA database for entrapment cases involving beds from January 1995 to August 1995 finds 111 entrapments, 65 percent associated with death; 23 percent with injury).


discourage siderail use.\textsuperscript{148} It is well recognized among physicians and nurses working in British geriatric facilities that siderails lack any known benefit in fall prevention\textsuperscript{149} and British researchers report a low fall rate in institutions that do not use siderails.\textsuperscript{150} A study conducted in a New Zealand hospital found a decrease in falls and injuries following a policy to reduce siderail use.\textsuperscript{151}

Since siderails do not necessarily prevent older persons from transferring out of bed unassisted, they can lead to even more serious fall-related injuries due to the increased distance (siderails may add up to 2 feet) of a fall.\textsuperscript{152} Capezuti and colleagues compared fall and injury rates among 188 nursing home resident using 0/1 full-length siderail to 131 residents with bilateral siderail use during a one-year data collection period.\textsuperscript{153} After controlling for cognition, functional and behavioral status, there was no indication of a decreased risk of falls or recurrent falls with bilateral siderail use.\textsuperscript{154} Three residents among the 131 with bilateral siderail use (1.6 percent) experienced a serious injury while two among the 188 subjects with 0/1 siderail (1.5 percent) were seriously injured.\textsuperscript{155} Thus, bilateral siderails usage does not appear to significantly reduce the likelihood of falls, serious injuries or recurrent falls.\textsuperscript{156}

There have been only a few studies documenting the fall outcomes related to siderail reduction.\textsuperscript{157} In a New Zealand hospital, the reduction of full-length siderails did not change the fall rate while the

\textsuperscript{148}See, e.g., J. Dermot Frengley, Bedrails Do They Have A Benefit?, 47 J. AM. GERIATRICS SOC'Y 627, 627-28 (1999); Laurence Z. Rubenstein et al., Falls in the Nursing Home, 121 ANNALS INTERNAL MED. 442, 442-51 (1994); Mary E. Timm & Mark Speedley, Prevention of Falls Among the Elderly, 320 N. ENGL. J. MED. 1055, 1055-59 (1989); Beatrice Turkoski et al., Clinical Nursing Judgment Related to Reducing the Incidence of Falls in Elderly Patients, 22 REHABILITATION NURSING 124, 124-29 (May/June 1997).

\textsuperscript{149}See Vivian Everitt & Jane Bridel-Nixon, supra note 68, at 44-47.


\textsuperscript{151}See, e.g., H.C. Hanger et al., An Analysis of Falls in the Hospital Can We Live Without Bedrails?, 47 J. AM. GERIATRICS SOC'Y 529, 529-31 (1999).

\textsuperscript{152}See Capezuti, Interventions to Prevent Bed-Related Falls and Reduce Rail Use, supra note 64, at 26-34 citing Donius & Rader, supra note 145, at 23-27.

\textsuperscript{153}See Capezuti, Outcomes of Nighttime Physical Restraint Removal, supra note 49, at 157-64.

\textsuperscript{154}See id.

\textsuperscript{155}See id.

\textsuperscript{156}See id.

\textsuperscript{157}See, e.g., Hanger, supra note 151, at 529-31.
Half rails, compared to full-length rails, may reduce the risk of climbing over or around the rails; however, their use is not without risk. Further, some rails, even when not raised, may cause problems with transferring out of bed. A study observed 20 older rehabilitation patients getting out of a bed with rails lowered compared to a bed without a rail attached. It took significantly longer to get out of bed with lowered, attached rails due to the physical barrier of rail extending beyond the width of the bed, problems with getting feet under the bed or with lowering the bed to a comfortable height for standing.

American researchers have only recently begun testing the effectiveness of alternatives to siderails. Two groups of researchers have provided preliminary findings to support the use of very low height (that is, 7 to 13 inches above the floor) beds. New products to deter falls from bed are being developed. Development and testing of individualized interventions to replace siderails and reduce falls and injuries is especially important, considering the potential entrapment problem associated with siderails.

Entrapment Problems
From 1990 through 1994, the FDA received 102 reports of head and body entrapment incidents involving bedrails. The 68 deaths, 22 injuries, and 12 entrapments without injury occurred in hospitals, long-

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158 See id. at 530.
159 See Fred M. Feinsod et al., Eliminating Full-Length Bed Side Rails from Long-Term Care Facilities, 5 NURSING HOME MED. 257, 260-62 (July 1997); Kara Parker & Steven H. Miles, Deaths Caused by Bedrails, 45 J. AM. GERIATRICS SOC'Y 797, 797-802 (1997) [hereinafter Parker & Miles].
161 See id.
162 See id.
164 See Stephen Lane & Elizabeth Capezuti, Deterrent for Escapes from Bed, NAT'L INST. OF NURSING RES., Grant # 2 R 43 NR04369 (1999-2001) (on file with authors).
term care facilities, and private homes.\textsuperscript{166} Entrapments occurred through the siderail bars; through the space between split siderails; between the siderail and mattress; or between the head or footboard, siderail, and mattress.\textsuperscript{167} All deaths involved entrapment of the head, neck, or thorax, while most injuries involved fractures, cuts, and abrasions.\textsuperscript{168} The majority of the deaths and injuries involved older adults.\textsuperscript{169} Persons at high risk for entrapment include those with pre-existing conditions such as altered mental status (organic or medication related), confusion, restlessness, lack of muscle control, or a combination of these factors.\textsuperscript{170}

Dr. Steven H. Miles, Center for Biomedical Ethics at the University of Minnesota, and Kara Parker, Department of Geriatric Medicine at St. Paul Ramsey Medical Center, and the Center for Biomedical Ethics at the University of Minnesota chronicled adult deaths and injuries attributable to bedrails from 1993 to 1996 and categorized the deaths into three types: asphyxiation; rail and in-bed entrapment; and rail and off-bed entrapment.\textsuperscript{171}

Of the deaths, 70 percent were caused by the resident becoming trapped between the side of the mattress and a rail or in the triangular space created by the right angle of the rail and headboard where the mattress corner curves.\textsuperscript{172} The face presses against the mattress as the body slips downwards.\textsuperscript{173} Usually, the resident’s arm was pinned beneath their body so that they were unable to pull themselves up.\textsuperscript{174}

In 18 percent of the cases, the residents died from rail and in-bed entrapment.\textsuperscript{175} Struggling to escape triggers rail latch failure collapsing the widely spaced vertical bars on the resident’s neck.\textsuperscript{176} Parker and Miles attribute these deaths to design flaws -- excess spacing of vertical bars and latch failure during shaking.\textsuperscript{177} In a few cases, the person who

\begin{footnotes}
\item[166] See id.
\item[167] See id.
\item[168] See id.
\item[169] See id.
\item[170] See FDA ENTRAPMENT ALERT, supra note 165.
\item[171] See Parker & Miles, supra note 159, at 798.
\item[172] See id.
\item[173] See id.
\item[174] See id.
\item[175] See id.
\item[176] See Parker & Miles, supra note 159, at 798.
\item[177] See id.
\end{footnotes}
climbed over the rail slipped and their head and neck landed on the rail. Asphyxiation followed unless the person had the strength to raise their head from the rail.

The remaining 12 percent of deaths were caused by rail and off-bed entrapment. A composite scenario for rail and off-bed entrapment might involve an 83-year-old, 97-pound woman suffering from Alzheimer’s who is wearing a vest restraint to prevent her from falling out of bed. She exhibits risk factors for restraint asphyxiation including cognitive and physical disability, documented restlessness while restrained, and a recent history of being found suspended in a restraint. The woman becomes suspended and struggles. The restraint gathers around her upper thorax, concentrating compressing pressure on her chest. Her weight is conveyed through the vest preventing her chest wall from expanding. Typically, her vest catches under her arms, lifting them so that she cannot use them. Her elbow jams into the bedding preventing her from using her arms to pull herself up safety or reach for a call button. Medical evidence suggests that she was alive and capable of suffering as she died.

In Trew v. Smith & Davis Manufacturing Company, a nursing home resident suffering from advanced stages of Alzheimer’s disease died following rail and in-bed entrapment. Suit was brought against the facility and the siderail manufacturer. Discovery revealed that the manufacturer had known of the entrapment danger, but failed to take corrective measures. The manufacturer sold 300,000 of this siderail model despite reports of entrapment, some of which resulted in

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178 See id.  
179 See id.  
180 See id.  
181 See Miles & Irvine, supra note 142, at 765.  
182 See Miles, Death by Physical Restraint, supra note 142, at 291.  
183 See id.  
184 See id.  
185 See id.  
186 See id.  
187 See id.  
188 See id.  
190 See id.  
191 See id.
death. The facility settled for $900,000, the largest recovery in a New Mexico nursing home case. The settlement agreement required restraint reduction and certification, in writing, to the plaintiff's attorneys, of a 90 percent restraint reduction from lawsuit inception until settlement. During mediation, the manufacturer offered a $70,000 settlement. The case proceeded to trial resulting in a $4.5M verdict, the largest wrongful death award in New Mexico involving a nursing home resident and the largest personal injury award recovered in Santa Fe County.

Siderail Design Change
No universal standards exist for bed siderail design. Deaths from bedrails are under-recognized, preventable clinical events occurring in any medical setting, including nursing homes. Researchers advocate a unified re-design of the relationship between rails, mattresses, and beds, which are now often assembled and used as separate products. In April 1999, February 2000, and October 2000, the federal Food and Drug Administration ("FDA") convened representatives from government agencies, resident and patient advocacy organizations, bed manufacturers, research institutions and health care provider organizations to address the issue of bed design, among other items. A task force reviewed, among other objectives, evidence-based equipment design guidance. Meanwhile, eliminating or minimizing use of restraints and confirming the proper relationship between beds, rails and mattresses may prevent many of these deaths.

Consider, for example, plaintiff's successful argument in Trell v. Smith and Davis Manufacturing Company, that the rail was negligently

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192 See id.
193 See id.
194 See Trell, supra note 189.
195 See id.
196 See id.
197 See Parker & Miles, supra note 159, at 797.
198 See id. at 800.
199 See Anonymous, Tell the FDA: Bedrails are Restraints Too! Advocate Fight to Stop Future Injuries and Deaths, 14 QUALITY CARE ADVOCATE 6, 6-7 (1999)
designed to allow a nursing home resident’s head to fit between the bars and that the defendant should have redesigned them.202

SIDERAIL ALTERNATIVES

Use of siderails often replaces the assessment process of unraveling the complex multifactorial etiology of an individual’s fall risk. Effective bed-fall reduction projects emphasize the importance of a comprehensive assessment process.203

Siderails are used as restraints when they function to deter an older person from transferring out of bed.204 They also remind the person to call for assistance; however, most persons for whom siderails are used lack the cognitive ability to correctly interpret their intended use.205 Instead, many respond to siderails as a barrier to go over or around. Thus, because siderails add two feet to the potential fall height, likelihood of injury is increased.206 Alternatives include bed bumpers on mattress edges, full body pillows, pillows, or rolled blankets under the mattress edge; each remind residents of the bed’s edge without adding height to a fall.207

Most falls from bed occur when a resident is transferring in or out of bed.208 For shorter (less than 5 feet) residents, the standard nursing home bed (usually 21 inches from the floor) may be too high for safe transfer.209 Low beds that can be manually, hydraulically or electrically adjusted to promote safe transfer are available.210 A non-skid mat

202See Trew, supra note 189.
203 See Capezuti, Assessment and Intervention in Rail Use, supra note 145, at 322-30; Elizabeth Capezuti et al., Individualized Interventions to Prevent Bed-Related Falls and Reduce Siderail Use, 25 J. GERONTOLOGICAL NURSING 26, 26-34 (Nov. 1999) (detailing the clinical decision-making process in choosing interventions to prevent bed falls) [hereinafter Individualized Interventions to Prevent Bed-Related Falls and Reduce Siderail Use].
204 See SIDERAIlS INTERIM POL’Y, supra note 19.
205 See Capezuti, Individualized Interventions to Prevent Bed-Related Falls and Reduce Siderail Use, supra note 203, at 27.
206 See O’Keefe, supra note 65, at 1075-77.
207 See Capezuti, Individualized Interventions to Prevent Bed-Related Falls and Reduce Siderail Use, supra note 203, at 26-34.
208 See id.
209 See id. at 29.
210 See Capezuti, Assessment and Intervention in Rail Use, supra note 145, at 322-30; Capezuti, Individualized Interventions to Prevent Bed-Related Falls and Reduce Siderail Use, supra note 203, at 26, 29.
placed at the side of the bed and/or toilet can reduce the likelihood of slipping.\textsuperscript{211} Securely fastened grab bars as well as a toilet seat individually adjusted to the resident's height will reduce falls in the bathroom.\textsuperscript{212} Additionally, many residents need a device to enable or assist them in safe transfer and promote stability when standing.\textsuperscript{213} Transfer enablers include a trapeze, transfer pole or bar, or raised 1/4 or 1/2 length siderail directly attached to or adjacent to the top of the bed.\textsuperscript{214} For residents with a history of climbing around or over siderails, especially those at high risk of injury (for example, persons with osteoporosis), reducing the risk of injury is essential.\textsuperscript{215} For those residents unable to stand safely, but who may accidentally roll out of or attempt to unsafely exit from bed, a very low bed height (6 to 13 inches from the floor) is recommended.\textsuperscript{216} Falling onto hard surfaces increases the likelihood of serious injury.\textsuperscript{217} Thus, a bedside cushion such as an exercise mat or an eggcrate foam mattress is useful for those at risk of fall-related injury. Hip pads have also been shown to reduce the risk of hip fracture in fallers.\textsuperscript{218} Developing an effective individualized care plan requires creative approaches, best achieved with input from the entire clinical care team. Most likely this will require staff education and administrative support as staff try interventions other than siderails.\textsuperscript{219} Residents and their families must be informed and involved in the process.\textsuperscript{220}

\textsuperscript{211}See Capezuti, \textit{Individualized Interventions to Prevent Bed-Related Falls and Reduce Siderail Use}, supra note 203, at 29.
\textsuperscript{212}See id. at 30.
\textsuperscript{213}See id. at 27.
\textsuperscript{214}See id.
\textsuperscript{215}See id. at 30.
\textsuperscript{216}See id.
\textsuperscript{219}See Donius, supra note 145, at 23-27.
OTHER ADVERSE EFFECTS OF RESTRAINTS

For older persons, restraint use worsens deconditioning, gait, and balance abnormalities, thereby increasing a nursing home resident’s fall and injury risk. Other complications of prolonged immobilization include joint contractures; chronic constipation; incontinence; pressure sores; cardiopulmonary deconditioning; increased agitation and confusion; loss of autonomy and dignity; an increased likelihood of contusions, neurovascular compromise, and nosocomial infection; serious biochemical and physiologic effects; abnormal changes in body chemistry, basal metabolic rate and blood volume; orthostatic hypotension; lower extremity edema; bone demineralization; overgrowth of opportunistic organisms; and EEG changes.

Burns

Poor posture control, hand dexterity or confusion can increase the chances of an accident among restrained nursing home residents who smoke. Also, visitors and other residents unaware of a potential fire hazard may give smoking materials to the resident without staff knowledge. Further, many residents use oxygen, or are in close proximity to other residents who use oxygen, thereby increasing the danger of fire. The deliberate or accidental igniting of restraints may result in death or injury. For example,

\[221\] See Schnelle & Smith, supra note 86, at 727; Rubenstein, Preventing Falls in the Nursing Home, supra note 1, at 596; see also Rubenstein, Falls in the Nursing Home, supra note 122, at 442-51.


\[224\] See id.

\[225\] See id.

\[226\] See 61 Fed. Reg. 8,432, 8,437 (1996); see also Miles & Irvine, supra note 142, at 763 (analyzing 122 deaths caused by vest and strap restraints from 1983 through 1990 finding three persons who died trying to escape restraint by setting their restraints on fire and one person receiving oxygen by nasal cannula who died from a fire accidentally started by a cigarette).
A 76-year-old nursing home resident diagnosed with dementia died two days after suffering third degree burns over 56 percent of his body when his clothing caught fire. Allegedly, the resident was found standing and ablaze from the waist up after facility staff responded to screams. In a subsequent negligence lawsuit, the decedent's surviving heir claimed that the resident had been placed in a vest restraint without a physician's order in violation of federal and state regulatory rules and procedures. She also claimed that the facility administrator had instructed employees to restrain the resident when his family members left the premises after visiting. The plaintiff also alleged that the facility had an ineffective smoking policy despite knowledge that some residents had cigarettes and lighters. She theorized that the resident’s roommate, who also suffered from dementia, either lit a cigarette for the decedent or tried to help him use a cigarette lighter to burn off the restraining vest’s straps. The resident’s room was cleaned and painted at night immediately after the fire. A fire investigator allegedly found a trash bag in a dumpster containing the decedent’s clothing and the remains of the vest. The administrator denied the allegations. A Texas Department of Human Services investigation prompted the establishment of an involuntary trusteeship to operate the facility and return it to compliance with federal and state regulations. A $1,350,000 settlement ended the negligence suit.\(^{227}\)

It is important for every nursing home to have a smoking policy or risk a similarly large settlement following resident death from self-inflicted burns. Risk managers are advised to review their facility’s smoking policy and compare it to actual smoking practices within the facility.

There have been reports of restraints with ash and cigarette burns in them, indicating a safety problem with flammable materials.\(^{228}\) Although the FDA does not require flame-resistant materials for all restraints, the agency recommends that health care institutions.

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including nursing homes, develop and implement policies using flame-retardant restraints for residents who smoke while restrained.\textsuperscript{229}

\textbf{Agitation}

"For years, uncooperative and agitated [residents] have been physically restrained in order to manage their behavior."\textsuperscript{230} However, various observational studies have found that restrained residents exhibit the same, or more, agitated behaviors than unrestrained residents.\textsuperscript{231} This suggests that restraints intensify rather than improve behavior among agitated older residents. For example, a resident's daughter related that her mother had been in a concentration camp during World War II and was agitated and frightened by restraints.\textsuperscript{232} Upon restraint removal, her mother stopped screaming and became a much calmer person.\textsuperscript{233}

Residents may describe a "prison-like feeling" when their bed rails are in the up position.\textsuperscript{234} Residents already restless and agitated, fearful of soiling their bed, are at increased risk of falling while attempting to climb over siderails.\textsuperscript{235} Other agitated residents risk injury while attempting to escape the confines of siderails.\textsuperscript{236}

In \textit{Kildron v. Shady Oaks Nursing Home}, physician's orders permitted physical (and chemical) restraint "as needed" for a 59-year-old resident with Alzheimer's disease.\textsuperscript{237} The facility's director of nurses "testified that the staff did not use restraints on [this resident] unless absolutely necessary because they made him hostile and

\textsuperscript{229}See id.

\textsuperscript{230}James T. O'Donnell et al., \textit{Appropriate Use of Chemical and Physical Restraints with Elderly Nursing Home Residents}, 9 J. PHARMACY PRAC. 144, 144 (1996); Perla Werner et al., \textit{Physical Restraints and Agitation in Nursing Home Residents}, 37 J. AM. GERIATRICS SOC'Y 1122, 1124 (1989) (reporting that the imposition of physical restraints increases manifestations of agitation).


\textsuperscript{232}See Ejaz, supra note 116, at 697.

\textsuperscript{233}See id.

\textsuperscript{234}See, e.g., Hanger, supra note 151, at 530.

\textsuperscript{235}See Wendy Jehan, \textit{Restraint or Protection? The Use of Bedside Rails}, 6 NURSING MGMT. 9, 10 (1999).

\textsuperscript{236}See id. at 11.

agitated." Instead, the facility let him wander and assigned an aide to watch him during the day. One evening, the unattended resident fell and fractured his hip. The appellate court affirmed the trial court’s judgment “that the nursing home was not negligent in failing either to restrain or personally supervise and assist plaintiff at all times.” The court held that failure to use physical restraints was not a breach of the nursing home’s duty of care.

Resident Autonomy and Dignity
Restraints threaten resident personal autonomy and dignity. For example, a 72-year-old man said: “I felt like I was a dog and cried all night. It hurt me to have to be tied up. I felt like I was nobody, that I was dirt. It makes me cry to talk about it[.]” Evans and Strumpf, nurse researchers at the University of Pennsylvania School of Nursing who have studied restraints for over a decade and are among the nation’s leading advocates of restraint reduction, report that many residents express feelings of anger, fear, and abandonment long after the restraint experience. Many are uninformed about why they are restrained, some even mistaking it for punishment. For example, an 84-year old woman recalls her experience:

I don’t remember misbehaving, but I may have been deranged from all the pills they gave me. Normally, I am spirited, but I am also good and obedient. Nevertheless, the nurse tied me down, like Jesus on the cross, by bandaging both wrists and ankles . . . it felt awful. I hurt and I worried, ‘What if I get leg cramps; what will I do then if I can’t move?’ It was miserable . . . and an awful shock . . . Because I am a cooperative person. I felt so resentful. Callers, including men friends, saw me like that and I lost something: I lost a little personal prestige. I was embarrassed, like a child

238See id.
239See id.
240See id.
241See id. at 397.
242See id.
243Dodds, supra note 231, at 160.
244See Evans & Strumpf, supra note 222, at 69.
placed in a corner for being bad. . . . I haven’t forgotten the pain and indignity of being tied.\textsuperscript{245}

**FEDERAL LAW AND REGULATION**

In practice, courts examine statutory and regulatory requirements as evidence of the appropriate professional standard of care.\textsuperscript{246} Compliance with these legal standards is considered minimally adequate conduct, while deviation is negligence *per se* or a strong presumption of negligence.\textsuperscript{247} The legal standard of care in nursing

\textsuperscript{245}Dodds, *supra* note 231, at 160.

\textsuperscript{246}Carlson, *supra* note 51, at \$ 10.08 (determining the standard of care in nursing home cases); Lawrence A. Frolik & Richard L. Kaplan, *Elder Law in a Nutshell* 171 (2d ed. 1999) ("look to the various Federal and state certification standards to provide a proper standard of care"); Angela Snellenberger Quin, Comment, *Imposing Federal Criminal Liability on Nursing Homes: A Way of Deterring Inadequate Health Care and Improving the Quality of Care Delivered?*, 43 St. Louis U. L.J. 653, 658 (Spring 1999) ("OBRA 87 provided a national standard of care applicable to all nursing homes participating in Medicare or Medicaid"); Steven M. Levin et al., *Protecting the Rights of Nursing Home Residents Through Litigation*, 84 Ill. B.J. 36, 36 (Jan. 1996) ("OBRA and its regulations establish a national standard of care applicable to nursing homes which affects all nursing home cases"); Catherine Hawes, *Assuring Nursing Home Quality: The History and Impact of Federal Standards in OBRA-1987*, New York: Commonwealth Fund (Dec. 1996); Lorraine C. Mion et al., *Physical Restraint Use in the Hospital Setting: Unresolved Issues and Directions for Research*, 74 Milbank Q. 411, 425 (1996); Marilyn Askin, *Nursing Home Residents as Clients*, 164 N.J. Law. 30, 31 (Oct. 1994) (highlighting remarks presented at a National Academy of Elder Law Attorneys symposium that reference attorney use of the "copious standards set forth in the [Nursing Home Reform Act] and states' nursing home licensing laws as the basis for the standard of care."); Kapp, *Malpractice Liability in Long-Term Care, supra* note 2, at 1244 ("The courts . . . relied on the facility's compliance with applicable federal and state regulations regarding the safeguarding of resident welfare in holding that the facility had satisfied the legal standard of care, even if resident injury unfortunately took place anyway.").

\textsuperscript{247}See, e.g., Abrahams v. King Street Nursing Home, Inc., 664 N.Y.S.2d 479 (1997), *leave to appeal denied*, 671 N.Y.S.2d 715 (N.Y. 1998) (finding no evidence that the nursing home's failure to restrain a resident without physician order (as required by law and facility policy) was negligent); Klein v. BIA Hotel Corp., 49 Cal. Rptr. 2d 60, 64 (Cal. Ct. App. 1996) (relying on state licensing regulations in establishing the appropriate standard of care); Dusine v. Golden Shores Convalescent Ctr., 249 So.2d 40, 41 (Fla. Dist. Ct. App. 1971) (approving the admission of a regulation providing that "during provisions of restraint, the patient shall be observed vigilantly"); cf. Makas v. Hillhaven, 589 F. Supp. 736, 742 (M.D. N.C. 1984) (finding state nursing home patients' bill of rights provisions "so general and nebulous that a trier of fact could not determine whether the standard had been violated"); Stogsdill v. Manor Convalescent Home, 343 N.E.2d 589, 611-12 (Ill. App. Ct. 1976) (ruling that certain state nursing home regulations did not establish a standard of care); Mo. Rev. Stat. \$ 198.093(4) (1994 & Supp. 1998) (allowing a facility to be exempt from liability by simply showing that it "exercised all care reasonably necessary to prevent the deprivation and injury for which liability is
homes incorporates a strengthened presumption against restraint use unless identifiable alternatives have been investigated and found impossible.\textsuperscript{248}

**Nursing Home Reform Act**

The minimum standard of care that nursing homes are expected to meet appears in the Nursing Home Reform Act (NHRA)\textsuperscript{249} enacted by Congress as part of the Omnibus Budget Reconciliation Act of 1987 (OBRA)\textsuperscript{250} and its implementing regulations.\textsuperscript{251}

Although the nursing home industry as a whole reacted favorably to the statutory and regulatory antipathy of restraints, a substantial number of long-term care professionals expressed anxiety about the potential malpractice liability implications for them and their facilities associated with radically reducing the use of restraints, particularly physical [restraints], for residents at risk of falling and/or wandering.\textsuperscript{252}
The NHRA imposes stringent standards for nursing homes participating in the Medicare/Medicaid programs, the primary funders of long-term care. The discussion below, although not exhaustive, highlights many significant NHRA provisions.

Right to be Free from Restraints
All Medicaid- and Medicare-certified facilities must adhere to a Resident Bill of Rights as detailed in the federal regulatory scheme that includes the general right to be free from restraints, with some qualifications. In O'Gorman v. Pleasant Valley Extended Care, a 78-year-old resident diagnosed with chronic obstructive pulmonary disease, arterial sclerosis, left side hemiplegia and an aneurysm refused the use of a restraint to prevent recurrent falls and signed an order prohibiting same. The facility notified the resident's family and physician each time she fell. In spite of such notifications, the resident maintained her right to be free from restraint. The resident died following cerebral hemorrhage allegedly resulting from a blow to the head received after a fall from her wheelchair. The jury unanimously agreed that the facility was not negligent in failing to prevent the resident's fall.

Residents also have the right to be free from restraints imposed for discipline or convenience, and not required to treat medical symptoms which must be documented in the resident's chart and incorporated into the resident's assessment and care planing. Consider, for example, Nielsen v. Basit, where a 29-year-old patient at a state mental institution "died, after a nurse dragged him down the hall in a chokehold, put him

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253 42 U.S.C. §§ 1395r-i(3) (a)-(h) [Medicare] & 1396r(a)-(h) [Medicaid].
256 Id. at *1.
257 Id. at *2.
258 Id. at *1, 2.
259 Id. at *2.
in restraints, and then left him in unattended seclusion."\textsuperscript{261} A wrongful death suit is resulted in a $2,800,000 verdict.\textsuperscript{262}

### Quality of Life

Nursing homes accepting Medicare or Medicaid payments must care for residents "in such a manner and in such an environment as will promote maintenance or enhancement of the quality of life of each resident."\textsuperscript{263} Restrained residents feel socially isolated, fearful, demoralized, humiliated, angry, uncomfortable, and confused.\textsuperscript{264} These feelings remain months or years after restraint removal.\textsuperscript{265}

Further, the nursing home must provide "services and activities to attain or maintain the highest practicable physical, mental, and psychosocial well-being of each [nursing home] resident in accordance with a written plan of care[.]")\textsuperscript{266} The facility must demonstrate how restraint and/or siderail use assists the resident in reaching his or her highest level of physical, mental, and emotional well being.\textsuperscript{267}

### Resident Assessment and Care Planning

Nursing homes are required to conduct a comprehensive resident assessment within 14 days of a resident’s admission, "promptly after a significant change in physical and/or mental condition," and at least annually.\textsuperscript{268} The assessment gathers information about a resident’s ability to perform daily life functions such as walk, talk, eat, dress,
bathe, see, hear, communicate, understand, and remember. It also
details significant impairments in functional capacity. A decision to
use physical restraints and/or siderails should be made after clinical
evaluation and interdisciplinary care planning determines the purpose
for the intervention.

After a comprehensive resident assessment has been completed,
the nursing home must develop a written care plan for each resident.
A written care plan describes the resident’s medical, nursing, and
psychosocial needs and how to meet those needs. The facility must
engage in a systematic and gradual process toward restraint and siderail
reduction for those residents whose care plans indicate their need.
For example, gradually increasing the amount of time the resident
walks each day and receives muscle strengthening activities or
reducing the use of two full-length siderails to one full-length siderail.

The resident and/or the resident’s legal representative have a right
to participate in comprehensive care planning conferences. The
attorney representing the resident or the caregiver should alert the

269See generally John M. Morris et al., A Commitment to Change: Revision of HCFA’s
RAI, 45 J. Am. Geriatrics Soc’y 1011 (1997); Charles D. Phillips et al., Association of the
Resident Assessment Instrument (RAI) with Changes in Function, Cognition, and Psychosocial
Status, 45 J. Am. Geriatrics Soc’y 986 (1997); Brant E. Fries et al., Effect of the National
Resident Assessment Instrument on Selected Health Conditions and Problems, 45 J. Am.
Geriatrics Soc’y 994 (1997); Theresamarie Mantese, Nursing Homes and the Care of the


271See SIDERAIS INTERIM POL’Y, supra note 19.

272See 42 U.S.C. §§ 1395i-3(b)(2) & (4)(A)(i) [Medicare]; 42 U.S.C. §§ 1396r(b)(2) &
resident must receive and the facility must provide the necessary care and services to attain or
maintain the highest practicable physical, mental, and psychosocial well-being, in accordance
with the comprehensive assessment and plan of care.”).

273See 42 U.S.C. §§ 1395i-3(b)(2)(A) [Medicare] & 1396r(b)(2)(A) [Medicaid]; 42 C.F.R.
§ 483.20(d). State regulation also addresses resident care plans. See, e.g., N.Y. Comp.
CODES R. & REGS. tit. 10 § 415.4(a)(2)(ii) (noting that the resident’s comprehensive care plan
must specify the type of restraint, release schedules, type of exercise, necessary skin care, and
ambulation to be provided).

274See HCFA GUIDANCE, supra note 10, at PP-44.

275See id.

276Id. at PP-46.

facilitate the client’s interest in attending such conferences. The attorney who wants to attend should secure written authorization from the resident or caregiver allowing attorney participation. Care plan conferences may be used to raise concerns about physical restraint and/or siderail use.

The care plan is significant from a legal point of view because it defines the standard of care to which the nursing home can be held accountable. Nursing homes have a duty to provide care that meets the needs of the resident’s known physical and mental condition.

### Physician Order

According to federal law, restraint use requires a physician’s written order specifying circumstances and duration of use. Clearly, the decision to restrain falls within the physician’s professional ethic and judgment rather than administrative routine.

In *Saunders v. Beverly Enterprises*, a 56-year-old terminal cancer patient, a known smoker, was admitted to the defendant’s nursing home with orders for bed rest and restraint as needed. Instead of following physician orders for treatment and restraint, a computerized nursing

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279 Id. at 18.

280 Id. at 19 (advising the attorney to make a list identifying issues and concerns to raise at the care planning conference).

281 42 C.F.R. § 483.20(k)(3) (1999) (“The service provided or arranged by the facility must (i) Meet professional standards of quality; and, (ii) Be provided by qualified persons in accordance with each resident’s written plan of care.”).


285 See Johnson, supra note 2, at 268 (“What may occur over time . . . is a shift toward physician liability for malpractice in the use of restraints. One impact of such a shift could be a change in the assumptions on the use of restraints, including a clear identification of restraints as falling within the professional judgment rather than administrative routine.”).

order form required that the resident be restrained 24 hours a day. The resident, tied to a wheelchair, went into resident rooms, rummaging through their possessions. Then, "he requested a knife to cut himself free of the restraints." The staff responded to this behavior by placing the resident in his room with the door closed. The resident obtained a lighter and tried to "burn himself free from the restraints, setting himself on fire." Two weeks later, the hospitalized man died from second and third degree burns to his torso and neck. An Oregon jury awarded $22,500 in special damages, $250,000 in non-economic damages, and one million in punitive damages.

In Wilks v. Avenue Care Center, Inc., an 87-year-old nursing home resident at high risk for falls "got out of bed and fell." As a result of the fall, the resident suffered a subdural hematoma and subsequently died. An Illinois jury returned a $216,771 verdict (plus attorneys' fees) finding that the defendant facility ignored a physician's orders to place the resident in a vest restraint. The defendant unsuccessfully argued that it "had discretion as to whether to follow the [physician's] order."

In Matteo v. Geisinger Wyoming Valley Medical Center and Geisinger Clinic, a 91-year-old woman who fell during her hospital stay died of complications from surgery following a severely fractured

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288 Id.
289 Id. at 43-44.
290 Id. at 44.
291 Id.
292 Id.
293 Id.
294 Id.
296 Id.
297 Nursing Home Found Liable for Failure to Place Patient in Restraints, 19 No. 7 VERDICTS, SETTLEMENTS & TACTICS 302 (July 1999) (discussing Wilks v. Avenue Care Ctr.).
298 Id.
right hip sustained as a result of the fall. The four months prior to the fall at the hospital the woman "had resided in a nursing home and was under an order for soft belt restraint, both in and out of bed, for her safety." Her family physician had determined that she needed the restraint because "she was a fall risk" and "the restraint was the least restrictive means of ensuring her safety." The jury agreed and awarded $943,974.41 in the wrongful death and survival action. A Houston jury returned a verdict for $39.4 million in the case of an 84-year-old resident who had been restrained in her bed with a vest-type restraint and was found hanging from the side of her bed strangled. One report of this case suggests that the resident was restrained without physician order for three days.

In Smith v. Gravois Rest Haven, the Missouri Court of Appeals affirmed a verdict against a nursing home where a resident restrained by physician order fell out of bed and fractured her hip.

**Informed Consent**

Nursing home residents, the potential plaintiffs, must be involved in the process of informed, voluntary consent to, or refusal of, physical restraint use. In order for the consent to be legally binding, the resident must be fully informed of the risks and benefits associated with restraints and their alternatives, thereby allowing the resident to make

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301 *Id.*
302 *Id.*
304 See Johnson, supra note 2, at 267 citing Woolsey & Bradford, *Two Separate Texas Juries Award $40 Million for Wrongful Deaths*, BUS. INS., Apr. 9, 1990, at E14, 3
305 Smith v. Gravois Rest Haven, 662 S.W.2d 880, 882 (Mo. Ct. App. 1983)
an informed choice. Furthermore, all of this must be documented in the resident's nursing home record and/or consent form.

In *Lynch v. Huntington Memorial Hospital*, an 84-year-old hospital patient was placed in a vest restraint at night because he "was confused, combative at times and could not walk without assistance." One night he slept without the restraint "because he no longer wanted to wear" the vest. He got out of bed, fell and broke his hip. Arguments that "he was confused and disoriented and was unable to competently refuse" the vest restraint failed. The jury found that the defendant institution had honored the plaintiff's request not to be restrained.

If a resident is incapable of making an informed choice, the legally authorized surrogate decision maker may exercise the right based on the same information that would have been provided to the resident.

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[^307]: HCFA GUIDANCE, *supra* note 10, at PP-44 (highlighting facility responsibility to explain the negative outcomes of restraint use to the resident).
[^308]: A sample consent form for the use/non-use of restraints may close with the following language above the signature lines for the resident; facility representative; authorized surrogate decision maker, if applicable; and a witness.

I have been informed of, and understand, the information described in this consent form. The risks and benefits regarding the application of restraints have been explained and I acknowledge understanding the implications of consenting to or refusing such measures. I hereby agree to the intervention described despite the possibility that his/her/my health and safety may be negatively affected by this decision.

_Informed Consent for Use or Non-Use of Physical Restraints_, CONTINUING CARE RISK MANAGEMENT, PATIENT/RESIDENT CARE 15 (ECRI (Plymouth Meeting, PA) 1995) reprinting with permission of Polyclinic Med. Center (Harrisburg, PA). Obtain more information about ECRI risk management products by writing ECRI, 5200 Butler Pike, Plymouth Meeting, PA 19462-1298; by telephone: (610) 825-6000; by facsimile (610) 834-1275, or by e-mail ccrm@ecri.org.

[^310]: *Id.* at *1
[^311]: *Id.*
[^312]: *Id.* at *2.
[^313]: *See* HCFA GUIDANCE, *supra* note 10, at PP-44, 45; 42 C.F.R. §§ 483.10(a)(3) (1999) (providing that "in the case of a resident adjudged incompetent under the laws of a State by a court of competent jurisdiction, the rights of the resident are exercised by the person appointed under State law to act on the resident's behalf." ) & (4) (1999) ("In the case of a resident who has not been adjudged incompetent by the State court, any legal-surrogate designated in accordance with state law may exercise the resident's right to the extent provided by State law.")
However, the representative cannot give permission to restrain for discipline, convenience, or when not necessary to treat medical symptoms.  

The fact that a resident or surrogate consents does not excuse liability for an improper decision to apply a restraint, improper application of a restraint, improper monitoring of a restrained resident, or a failure to revise a resident’s treatment plan.

Arguably, restraining an individual without their prior consent constitutes battery (an intentional, unconsented-to, offensive invasion of the resident’s bodily integrity). Legally, when someone places their hands on an individual or restricts the individual’s ability to move freely without the individual’s prior consent, the person initiating the physical contact may be held liable for battery.

Alternatively, consider the resident’s ability to claim false imprisonment. For example, in *Big Town Nursing Home v. Newman*, the nursing home resident successfully claimed the facility confined him against his will.

**Emergency Care**

Emergencies are a legally recognized exception to informed consent requirements. Restraints may be used for brief periods to allow emergency medical care to proceed unless the nursing home has notice of a previously made valid refusal of the treatment in question.

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315 See HCFA GUIDANCE, supra note 10, at PP-45.
316 *Id*.
317 See Kapp, Legal Issues, supra note 248, at 581; Kapp, Governing Board’s Role, supra note 39, at 23.
318 See Kapp, Legal Issues, supra note 248, at 581.
320 See W. PAGE KEETON ET AL., PROSSER AND KEETON ON THE LAW OF TORTS 117 (5th ed. 1984) (summarizing the basic requirements for emergency treatment without consent).
321 See HCFA GUIDANCE, supra note 10, at PP-16; 42 USC §§ 1395g-5(a)(1)(A) (stating that a resident has right “to be fully informed in advance about care and treatment, to be fully informed in advance of any changes in care or treatment and to participate in planning care and treatment or changes in care and treatment”) [Medicare] & 1396(r)(1)(A)(ii) (restricting the same language as Medicare) [Medicaid]. State regulation also provides for restraint use in an emergency. See, e.g., N.Y. COMP. CODES R. & REGS. tit. 10 §§ 415.4(a)(6)(i) (allowing a physical restraint to be applied in an emergency if approved by the medical director, attending physician, or nursing director, or, in their absence, by a registered professional nurse at 415.4(a)(6)(ii) (restricting restraint use to a limited period of time and requiring physician consultation about such use within 24 hours of the emergency). See generally George J. Annas.
HCFA INTERPRETIVE GUIDELINES

HCFA Interpretive Guidelines serve as the primary federal guide to nursing home surveyors when evaluating nursing home compliance with federal requirements. Incentives for nursing home compliance with these requirements, in terms of legal and economic survival, are tremendous. Surveyors examine, among other things, the appropriateness of physical restraint and siderail use. The federal


U.S. GEN. ACCT. OFFICE, Report to the Special Committee on Aging, U.S. Senate, California Nursing Homes: Care Problems Persist Despite Federal and State Oversight (GAO/HEHS-98-202, July 1998) (noting the federal government, through the Medicare and Medicaid programs, paid more than 17,000 nursing homes nearly $28 billion in 1997); Administration on Aging and the Older Americans Act, available at http://www.aoa.dhhs.gov/aoa/pages/aoafact.html (visited Sept. 10, 2000) (estimating persons age 60 and older will more than double to 85 million by the year 2030, and those 85 and older will triple to 8 million, thus requiring more nursing home beds); Nursing Homes: When a Loved One Needs Care, CONSUMER REP., Aug. 1995, at 519 (reporting that Beverly Enterprises runs more than 700 nursing homes with annual revenues of nearly $3 billion); Kapp, Restraints & Legal Liability, supra note 39, at 17 (discussing legal and economic incentives for nursing home compliance with federal requirements).

See, e.g., Beverly California Corp. d/b/a Applegate East Nursing Home v. Shalala, 78 F.3d 403 (8th Cir. 1996). Regulatory violations observed by a survey team at a 105-bed Illinois facility include:

- restraints left on residents without release for periods exceeding two hours; vest restraints applied improperly creating a risk of strangulation;
- frail residents lifted and ambulated in a manner that posed a substantial threat of injury; failure to observe basic hygiene conventions creating a serious risk of infection; dirty and unlabeled personal items and equipment scattered throughout the facility; physical therapy administered by an unqualified employee; inadequate physical therapy regiments; and discontinuation or delay of physical therapy without physician consultation.

restraints left on residents without release for periods exceeding two hours; vest restraints applied improperly creating a risk of strangulation; frail residents lifted and ambulated in a manner that posed a substantial threat of injury; failure to observe basic hygiene conventions creating a serious risk of infection; dirty and unlabeled personal items and equipment scattered throughout the facility; physical therapy administered by an unqualified employee; inadequate physical therapy regiments; and discontinuation or delay of physical therapy without physician consultation.
government has indicated publicly that it will encourage surveyors to take an aggressive stance in enforcing the statutory and regulatory requirements concerning restraint use.\textsuperscript{325} Anyone has the right to obtain survey results from the facility\textsuperscript{326} and from the state's certification and/or licensure agency.\textsuperscript{327}

**Survey Process**

The states conduct annual, random, unannounced standard surveys of Medicare and Medicaid certified nursing homes.\textsuperscript{328} These surveys are periodic, resident-centered inspections that gather information about the quality of service furnished in a nursing home to determine facility compliance with statutory requirements.\textsuperscript{329} Recent survey scheduling criteria changes are intended to make the timing of surveys less predictable.\textsuperscript{330} The survey is based upon federally approved protocol.\textsuperscript{331} Surveyors use detailed federal standards, methods, forms, and procedures.\textsuperscript{332} State surveyors certify facility compliance or cite

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\textsuperscript{326} See 42 C.F.R. § 483.10(g)(1) (1999).

\textsuperscript{327} See 42 C.F.R. § 483.10(b)(7)(iii) (1999) (noting the facility must furnish written description of resident's legal rights and post names, addresses, and telephone numbers of all pertinent state client advocacy groups such as the state survey and certification agency, state licensure office, state ombudsman program, the protection and advocacy network, and the Medicaid fraud control unit).


\textsuperscript{329} DEP’T HEALTH & HUM. SERVS., HEALTH CARE FIN. ADMIN., STATE OPERATIONS MANUAL—PROVIDER CERTIFICATION (Transmittal 273, June 1995) 7-8 [hereinafter SOM].


\textsuperscript{332} See 42 C.F.R. § 431.610(f)(1) (1999) (discussing federal requirements and the forms, methods and procedures used to determine eligibility and certification under Medicaid); 42 C.F.R. § 488, Subpart C (Survey Forms and Procedures) (1999). Survey (or deficiency) reports are found on Form HCFA-2567.
non-compliance with statutory requirements. If the nursing home is not in compliance with one or more regulatory standards, then the surveyor issues a deficiency. Possible violations include: restraining residents without release for periods exceeding two hours; improperly applying vest restraints creating a risk of strangulation; using restraints without physician order; failing to determine, through the use of a care plan, that restraints were necessary or that less-restrictive alternatives were not feasible; and applying a restraint for discipline or convenience, and not required to treat a medical symptom. The scope and severity of the deficiencies is considered before imposing a penalty. In addition, prior compliance history impacts the type of penalties that may be imposed for deficiencies cited in the future (for example, is it a repeated deficiency or an isolated violation?).

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334 See U.S. GEN. ACCT. OFFICE, Report to the Special Committee on Aging, U.S. Senate, California Nursing Homes: Care Problems Persist Despite Federal and State Oversight 6 (GAO/HEHS-98-202, July 1998). HCFA has four categories of deficiencies: 1) No actual harm, with potential for minimal harm (minimal); 2) No actual harm, with potential for more than minimal harm (less serious); 3) Actual harm that does not put the resident in immediate jeopardy (serious); and 4) Immediate jeopardy to resident health or safety (most serious). Id. “HCFA also classifies deficiencies by their scope, or extent, as follows: (1) isolated, defined as affecting a limited number of residents; (2) pattern, defined as affecting more than a limited number of residents; and (3) widespread, defined as affecting all or almost all residents.” Id. See also 42 C.F.R. § 488.404 (1999) (identifying factors considered when determining the seriousness of a deficiency).

335 See HCFA GUIDANCE, supra note 10, at PP-44. A deficiency is given when a nursing home fails to comply with federal or state requirements related to quality of care, quality of life, and resident behavior and facility practices. U.S. GEN. ACCT. OFFICE, Report to the Special Committee on Aging, U.S. Senate, California Nursing Homes: Care Problems Persist Despite Federal and State Oversight 7 (GAO/HEHS-98-202, July 1998).

336 42 C.F.R. § 488.404(b)(2) (1999) (noting that scope of deficiency depends on whether noted deficiencies are isolated, constitute a pattern, or are widespread). To be classified as “widespread” deficiencies must be pervasive throughout an entire facility, and not just throughout a particular unit or wing. See Memorandum from Director of Office of Survey and Certification to Associate Regional Administrators and State Survey Agencies, Clarification of Definition of “Widespread” Scope (Sept. 12, 1995); Beverly California Corp. d/b/a Applegate East Nursing Home v. Shalala, 78 F.3d 403, 406 (8th Cir. 1996) (considering “severity and frequency of any deficiencies” before making a decertification decision); Lake City Extended Care Ctr. v. Health Care Fin. Admin., DAB 1658 (1998) [ALJ Decision] (addressing an administrative law judge’s authority to review HCFA’s determination of scope); Carlson, supra note 51, at § 2.26[3] (discussing HCFA’s scope and severity standards).

337 42 C.F.R. § 488.404(c) (1999). See, e.g., Beverly California Corp. d/b/a Applegate East Nursing Home v. Shalala, 78 F.3d 403, 407 (8th Cir. 1996) (“[U]nder current regulations,
A one million dollar settlement was reached in *Austin v. Cherry Street Manor* where a 31-year-old blind and mentally retarded nursing home resident was found strangled on a vest restraint tied to her bed. About one year before her death, the Texas Department of Human Services cited the nursing home and its owners for improperly restraining and inadequately monitoring her. The Texas Attorney General’s Office is seeking civil penalties against the home and its owners stemming from this incident.

**Administrative or Regulatory Sanctions**

Inappropriate and indiscriminate restraint use where alternatives are available exposes nursing homes to foreseeable and avoidable civil and regulatory liability and punishments. Administrative or regulatory sanctions at the federal level include:

- termination of the provider agreement;

the prior survey history of a nursing home facility impacts the types of penalties that may be imposed for cited deficiencies in the future.“); *Belmont Nursing & Rehabilitation Ctr. v. Health Care Fin. Admin.*, DAB CR507 (Nov. 25, 1997) [ALJ Decision] (considering a Wisconsin facility’s history of noncompliance as well as the seriousness and scope of the deficiencies); *Baltic Country Manor v. Health Care Fin. Admin.*, DAB C-96-281 (1996) [ALJ Decision] (viewing the nursing home’s poor compliance history); *Del Rosa Villa, Inc. v. Shalala*, 1997 WL 269487, at *1 (C.D. Cal. 1997) (considering the issue of harm suffered as a result of prior decisions); *Rafeal Convalescent Hosp. v. Health Care Fin. Admin.*, DAB CR444 (1996) [ALJ Decision] (considering the issue of harm suffered as a result of prior decisions).


*Settlement in Suit Alleging Improper Care, 18 No. 2 VERDICTS, SETTLEMENTS & TACTICS 65 (Feb. 1998).*

*Id.*

*See Kapp, Restraints & Legal Liability, supra note 39, at 17 (discussing legal and economic incentives for nursing home compliance with federal requirements); Montgomery Health Care Facility, Inc. v. Ballard, 565 So.2d 221 (Ala. 1990) (ignoring deficiencies received from the Alabama Department of Public Health led to one resident’s death and a lawsuit).*

*See SOM, supra note 329, at 7-39; 42 U.S.C. § 1395I-3(h) (Supp. III 1997) (detailing enforcement process) [Medicare] & 1396r(h) (Supp. III 1997) [Medicaid]; see also Kapp, Restraints & Legal Liability, supra note 39, at 17.*

*42 C.F.R. § 488.406 (1999); International Long Term Care, Inc. v. Shalala, 947 F. Supp. 15 (D.D.C. 1996) (holding that termination from Medicaid is automatic upon termination from Medicare); see, e.g., *Beverly California Corp. d/b/a Applegate East Nursing Home v. Shalala*, 78 F.3d 403 (8th Cir. 1996) (upholding termination decision); *see generally*, U.S. Gen. Accounting Office, Report to the Special Committee on Aging, U.S. Senate, *California Nursing Homes: Care Problems Persist Despite Federal and State Oversight* 1, 27 (GAO/HEHS-98-202, July 1998) ("Of the 16 homes terminated in the 1995 to 1993 time period, 14 have been reinstated. Eleven . . . reinstated under the same ownership they had
• temporary management;  
• decertification from participation in the Medicare/Medicaid programs;  
• restriction or moratorium on new Medicare/Medicaid admissions;  
• temporary denial of Medicare/Medicaid payments for some or all federally-funded residents;  
• civil monetary penalties, not to exceed $10,000 for each day of non-compliance;  

before termination. Of the 14 reinstated homes, at least six have been cited since their reinstatement with new deficiencies that harmed residents."; John Wark, Why AHCA Doesn't Work, Part 2, TAMPA TRIB., Nov. 22, 1997 (noting that from 1992 to 1997 only one nursing home in Florida was terminated); Mediplex of Massachusetts, Inc. d/b/a SunRise Care and Rehabilitation Ctr. a/k/a Randolph Crossings Nursing Ctr. v. Shalala, No. 98-12363-DPW (D. Mass. filed Jan. 19, 1999) (granting a request for a preliminary injunction to enjoin the U.S. Department of Health and Human Services from terminating a nursing home's Medicare and Medicaid provider agreements given the substantial risk of "transfer trauma" to the residents); HHS Ordered to Continue Medicare/Medicaid Funding to Nursing Home, 6 No. 8 ANDREWS HEALTH L. LITIG. REP. 14 (Mar. 1999) (discussing Mediplex v. Shalala).  


345 See, e.g., Oak Lawn Pavilion, Inc. v. Health Care Fin. Admin., DAB C-95-155 (May 21, 1997) [ALJ Decision] (challenging termination of Illinois skilled nursing facility participation in the Medicare program); Robert Tomsho, Old Problem: A Trail of Complaints Slows but Can't Stop Nursing-Home Mogul, WALL ST. J., Sept. 3, 1997, at A1 (noting a Texas nursing home's Medicaid certification was terminated and fines imposed following the death of two residents and within seven months the facility's Medicaid certification was reinstated and its fines were reduced); Sensitive Care, Inc. v. Texas Dept. of Human Servs, 926 S.W.2d 823 (Tex. Ct. App. 1996) (appealing decertification).  

346 42 C.F.R. § 488.406 (1999); see, e.g., TRO Halts New Admissions to IN Nursing Home, 3 No. 9 ANDREWS HEALTH CARE FRAUD LITIG. REP. 12 (June 1998) (imposing a 45-day ban on admissions at Indiana nursing home serving 70 residents); Belmont Nursing & Rehabilitation Ctr. v. Health Care Fin. Admin., DAB CR507 (Nov. 25, 1997) [ALJ Decision] (denying payment for new admissions to 100-plus-bed skilled nursing facility located in Wisconsin where one of the survey deficiencies involved physical restraints).  


348 42 C.F.R. §§ 488.406, 488.408(d)(3)(ii) and 488.408(e) (1999); Health Care Fin. Admin., Fact Sheet: Assuring Quality Care for Nursing Home Residents (Mar. 16, 1999), available at http://www.hcfa.gov/facts/fs0316.99.htm (last visited Sept. 10, 2000) (noting that states can now assess fines up to $10,000 for individual health and safety violations); John Pray, Note, State v. Serebin: Causation and the Criminal Liability of Nursing Home Administrators, 1986 Wis. L. REV. 339, 360 (1986) (noting that even after a nursing home was cited with several deficiencies and entered into a settlement with the state attorney general for $104,000, the home failed to correct the conditions for which it was cited); U.S. v. City of Philadelphia, No. 2:98CV4253 (E.D. Pa, Aug. 13, 1998, settlement) (according to the terms of
RESTRAINTS & SIDERRAILS IN NURSING HOMES

- state monitoring;^349
- transfer of residents;^350
- transfer of residents coupled with facility closure;^351
- a directed plan of correction to allow facility management to implement a detailed plan for eliminating deficiencies;^352
- directed in-service training;^353 and

a settlement agreement reached after suit was filed under the False Claims Act, the nursing home agreed to pay the federal government $50,000, and to create a $15,000 fund for a special project; U.S. v. Chester Care Ctr., No. 98-CV-139 (E.D. Pa. 1998 consent order and judgment approved Feb. 5, 1998) (according to the terms of a consent order reached after suit was filed under the False Claims Act, the nursing home agreed to pay the federal government $500,000, and to implement a comprehensive compliance program); PA Nursing Homes Enter $500,000 Settlement Over Inadequate Care Claims, 10 No. 27 ANDREWS GOVT' CONTRACT LITIG. REP. 7 (Mar. 4, 1998) (discussing U.S. v. Chester Care Ctr.); PA Nursing Homes Enter $500,000 Settlement Over Inadequate Care Claims, 10 No. 27 ANDREWS HEALTH CARE FRAUD LITIG. REP. 4 (Feb. 1998) (discussing U.S. v. Chester Care Ctr.); Belmont Nursing & Rehabilitation Ctr. v. Health Care Fin. Admin., DAB CR507 (Nov. 25, 1997) [ALJ Decision] (imposing a civil monetary penalty of $300 per day upon a Wisconsin nursing home); Cross Creek Health Care Ctr. v. Health Care Fin. Admin., DAB CR504 (July 14, 1998) [ALJ Decision] (challenging amount of civil monetary penalties assessed to Florida nursing home); AGENCY FOR HEALTHCARE ADMIN., Federal Judge Upholds Record Fine Against Tampa Nursing Home, at http://www.ahca.state.fl.us/pio/press/Wellington.htm (last visited Sept. 7, 2000) (citing “the asphyxiation death of one resident who died after getting her head caught in a bed rail, insufficient staffing, failure to properly assess the needs of residents, and inappropriate use of restraints” as the basis for the fine).^349

^349 42 C.F.R. § 488.406 (1999); U.S. v. GMS Management-Tucker, Inc., No. 96-1271 (E.D. Pa. 1998) (according to the terms of a consent order reached after suit was filed under the False Claims Act, the nursing home agreed to pay the federal government $25,000, to provide training to its staff, and to allow a third party to monitor the nursing home at any time); U.S. v. Chester Care Ctr., No. 98-CV-139 (E.D. Pa. 1998 consent order and judgment approved Feb. 5, 1998) (providing for a federal monitor to observe the facilities for at least two years); TRO Halts New Admissions to IN Nursing Home, 3 No. 9 ANDREWS HEALTH CARE FRAUD LITIG. REP. 12 (June 1998) (ordering a monitor to observe conditions at Indiana nursing home).


^353 42 C.F.R. § 488.406 (1999); Integrated Health Services Pays $195,000 Penalty for Alleged Quality-of-Care Violations, 4 No. 9 ANDREWS HEALTH CARE FRAUD LITIG. REP. 11 (June 1999) (discussing a $195,000 settlement agreement between the federal government and
alternative or additional state remedies approved by HCFA. \footnote{354}

For example, a settlement reached in \textit{United States v. City of Philadelphia} required the nursing home to pay a $50,000 fine and resolve to, among other things, "limit the use of physical restraints." \footnote{355}

In \textit{United States v. Northern Health Facilities, Inc. d/b/a/ Greenbelt Nursing & Rehabilitation Center}, a preliminary injunctive order sought to remedy systemic care deficiencies. \footnote{356} The order requested the appointment of a temporary manager and monitor for the nursing home. \footnote{357} The order provided "standards for comprehensive assessment and care plans, wound treatment, the use of restraints, and nutrition." \footnote{358} Prior to the order, HCFA notified the facility that it was "no longer qualified to participate as a provider under the Medicare and Medicaid programs" because of the deficiencies identified in the state surveys. \footnote{359} In addition, HCFA advised that "its provider agreement would be terminated if the home did not come into substantial compliance" with federal requirements. \footnote{360} A fine of $700 per day was imposed. \footnote{361} Subsequently, the facility submitted a plan of correction and HCFA withdrew its termination action and discounted the fine. \footnote{362}

\footnotesize{\textit{Integrated Health Services at Penn Inc.}, a nursing home chain, requiring, among other terms, staff training); U.S. v. GMS Management-Tucker, Inc., No. 96-1271 (E.D. Pa. 1996) (according to the terms of a consent order reached after suit was filed under the False Claims Act, the nursing home agreed to pay the federal government $25,000, to provide training to its staff, and to allow a third party to monitor the nursing home at any time).}


\footnotesize{\textit{US Seeks Order to Address Nursing Home Care Deficiencies}, 6 No. 4 \textit{ANDREWS HEALTH L. LITIG. REP.} 6 (Nov. 1998) (discussing \textit{U.S. v. Northern Health Facilities, Inc. d/b/a/ Greenbelt Nursing & Rehabilitation Ctr}).}

\footnotesize{\textit{Id.} (emphasis added)}

\footnotesize{\textit{Id.}}

\footnotesize{\textit{Id.}}

\footnotesize{\textit{Id.}}

\footnotesize{\textit{Id.}}
FDA REGULATION

Nursing homes also must be aware of potential liability connected to federal Food and Drug Administration regulation of restraints as medical devices. The FDA designates physical restraints as medical devices\(^3\) and, as such, they are subject to medical device reporting regulations.

FDA regulations define a physical restraint as

a device, including but not limited to a wristlet, anklet, vest, mitt, straight jacket, body/limb holder, or other type of strap, that is intended for medical purposes and that limits the [resident's] movements to the extent necessary for treatment, examination, or protection of the [resident] or others.\(^3\)

FDA regulation is not limited to these examples. Rather, "[t]he identification is based on the product's intended use."\(^3\) Compare the FDA definition with the broader HCFA definition (discussed earlier) that defines restraint as any device that restricts voluntary movement.\(^3\)

Some find the FDA identification of restraint "too narrow, leaving major gaps in the coverage of a growing list of potentially dangerous devices that are routinely used to restrain residents and that are "falsely marketed" as restraint alternatives."\(^3\) The FDA disagrees and emphasizes that restraint identification is based upon the product's intended use.\(^3\)

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\(^{364}\) 21 C.F.R. § 880.6760.


\(^{366}\) Timothy M. Westmoreland & David W. Feigal, DEP’T OF HEALTH & HUM. SERVS., Health Care Fin. Admin., Letter to Cathy Morris (Aug. 1, 2000) (copy on file with authors) (clarifying the difference between the FDA and HCFA concerning what constitutes a physical restraint, especially as it relates to side rail use).

\(^{367}\) Id.

\(^{368}\) Id.
Evidence of a device's intended use is not limited to labeling claims or to verbal representations. It may be shown by the circumstances that the device is offered and used for a purpose for which it is neither labeled nor advertised. FDA considers any actions that otherwise represent a device's intended use, as well as labeling, to determine a device's intended use. Therefore, even devices that are "falsely marketed" as alternatives to restraints will fall under the identification of protective restraint if their intended use is to function as a protective restraint. If a manufacturer intends a device to be used as a restraint or is aware that the device is used as a restraint, that manufacturer must comply with requirements for protective restraints.

Pre-Market Notification and CGMP Exemptions Revoked

In 1980, the FDA exempted manufacturers of restraints and wheelchair accessories (such as armboard, lapboard, pusher cuff, crutch and cane holder, overhead suspension sling, head and trunk support, and blanket and leg rest strap) intended for use as restraints from pre-market notification [501(k)] procedures and certain current good manufacturing practice (“CGMP”) requirements. Requirements concerning records and complaint files remain. In 1996, however, the FDA published a final rule ending this exemption in response to "numerous reports of serious injuries and deaths that have been attributed to incorrect supervision, handling, or application of protective restraints." Revoking the pre-marketing exemption allows the agency to monitor device marketing, and review and identify unclear labeling that may result in applying restraints incorrectly. Ending the exemption from CGMP requirements helps "ensure that

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restraints are safe by conforming to appropriate specifications for design, materials, performance, and labeling.377 In addition, the manufacturers are subject to good manufacturing practice inspections to ensure quality control.378

A draft guidance document assists in preparing pre-market notification submissions for restraints and wheelchair accessories intended for use as restraints.379 Such guidance does not create or confer any rights for or on any person and does not bind the FDA or others; however, it does represent the agency’s current thinking on the subject.380 Characteristics that manufacturers should address in their 510(k) submissions include: specific intended use of the device; ease of release of the device in the event of emergencies; tear strength of the materials; potential for injury (for example, whether there are abrasive materials, such as metal fasteners, that would come in contact with the wearer’s skin); ease of size identification; completeness, conspicuousness, and simplicity of directions and labeling; care and/or cleaning instructions; biocompatibility of material; safety testing data and, for certain circumstances, patient testing data.381

Medical Bulletins and Safety Alerts

FDA medical bulletins and safety alerts offer emerging evidence of safety problems associated with particular restraint devices.382 On November 16, 1991, the FDA issued a medical bulletin entitled Potential Hazards with Restraint Devices which was reissued on July 15, 1992, as an FDA Safety Alert warning of the hazards associated with restraint use.383 The alert outlines appropriate standards of care for restraint use, describes requirements for restraint manufacturers, and includes a consumer information page.384 Another alert, Entrapment Hazards with Hospital Bed Siderails, addresses potential

377 Id.
378 Id.
383 See id.
384 Id.
entrapment hazards associated with siderails and recommends precautions to reduce further incidents.\textsuperscript{385}

**Prescription Status**

FDA regulations require that physical restraints bear a prescription-only label to ensure appropriate medical intervention in application and use.\textsuperscript{386} Prescription medical devices may be used only if a physician, or other health care professional licensed to prescribe, specifically orders a restraint for an individual.\textsuperscript{387} The FDA strongly encourages restraint application only by adequately trained personnel, according to state licensure and federal facility certification requirements.\textsuperscript{388}

**Labeling Requirements**

Manufacturers must adhere to many labeling requirements in addition to labeling their restraints as prescription only.\textsuperscript{389} Vests, jackets and other upper torso restraints, for example, must display a position label noting device orientation (such as top/bottom, front/back, and inside/outside).\textsuperscript{390} Further, labels must display size (such as small, medium, large) plus body measurements and weight ranges; cleaning instructions; specific warnings relating to incorrect placement; cautionary information (such as flammability); and important application steps.\textsuperscript{391}

Although product labeling alone cannot protect nursing home residents from injury or death, well-presented labeling written in a salient, informative, and concise manner motivates the user to read

\textsuperscript{385}See FDA ENTRAPMENT ALERT, \textit{supra} note 165.


\textsuperscript{387}Id. at 8,433.

\textsuperscript{388}Id.


\textsuperscript{390}See Device Labeling Guidance, \textit{supra} note 402.

\textsuperscript{391}Id.
RESTRAINTS & SIDERAIRS IN NURSING HOMES

instructions. Studies, as early as 1960, illustrate that warnings and safety posters in the workplace affect behavior. More recent studies demonstrate that user behavior is clearly influenced by the presence and location of warnings and adequate use instructions.

The Safe Medical Devices Act
The Safe Medical Devices Act of 1990 and its implementing regulations obligate nursing homes to report any adverse event (death, serious illnesses, and injuries) directly to the FDA within 10 working days of becoming aware of the event. Reports encompass many different restraint types regardless of manufacturer or design, various types of patient populations, regardless of clinical indications for use, and various types of healthcare facilities, including nursing homes. Given the probability of underreporting restraint-related deaths and injuries, the absence of complaints for a particular manufacturer does not indicate that the device is problem free. Failure to report in a timely manner may result in civil and/or criminal penalties.

FDA Complaint Files
Importantly, the FDA maintains reports concerning specific restraints, including siderails. This information is accessible to the public, including plaintiffs’ attorneys, upon request under the federal Freedom of Information Act ("FOIA"). When assembling evidence of a safety problem with a particular siderail, provide the name of a specific manufacturer, product, or class of products (such as siderails) in the FOIA request. If problems involving specific restraints become public


Id.


See Kapp, Legal Issues, supra note 248, at 581.

Id.

Id.


record, and a facility persists in their use and injury occurs for which compensation is sought, it becomes difficult for the nursing home to persuade the trier of fact that restraint use was appropriate given that the facility had or should have possessed information about the hazards associated with the device.\textsuperscript{402}

**FDA Enforcement**

Any manufacturer distributing a restraint not meeting FDA provisions risks enforcement action including seizure, injunction, civil penalties, and criminal prosecution.\textsuperscript{403} A 518(e) recall occurs only after finding that the device would cause serious adverse health consequences or death.\textsuperscript{404} The FDA will not recall a specific restraint (for example, criss-crossed vests) if, in the "best interest of public health," the benefits outweigh the risks.\textsuperscript{405}

**STATE LAW AND REGULATION**

Extensive regulation of nursing homes also occurs on the state level.\textsuperscript{406} In general, the regulations define the term restraint and detail

\textsuperscript{402}See Kapp, Restraints & Legal Liability, supra note 39, at 22; MARSHALL B. KAPP, GERIATRICS AND THE LAW: PATIENT AND PROFESSIONAL RESPONSIBILITIES 163 (2d ed. 1992) [hereinafter GERIATRICS AND THE LAW].

\textsuperscript{403}Id. at 22.

\textsuperscript{404}21 C.F.R. § 810.10(a) (2000).

\textsuperscript{405}Id.

\textsuperscript{406}See Kapp, Restraints & Legal Liability, supra note 39, at 21-22 n. 113. Kapp generously included citations to relevant state law excerpted and updated by the authors for reader convenience.
requirements governing their use.\textsuperscript{407} For example, Arkansas law protects nursing home residents by prohibiting physical restraint unless

\begin{quote}
See, e.g., N.Y. COMP. CODES R. & REGS. tit. 10 §§ 415.4(a)(2) (1990) (defining physical restraint to include, among others, posey jackets, bed rails, and gerichairs); 415.4(a)(7) (noting that each facility must have a written restraint policy that describes the kinds of restraints used in the facility and the purpose for which they may be used); 415.4(a)(2)(v) (prohibiting restraint use for staff convenience, for purposes of discipline, or to substitute for direct care, activities, or other services); 415.4(a)(2)(iii) (stating that restraints may be used only in unusual circumstances and only after all less restrictive alternatives have been considered and attempted, unless to do so clearly jeopardizes the resident's safety); 415.4(a)(2)(vi) (demanding informed consent before restraint use, except in an emergency); 415.4(a)(2)(i) (requiring restraint use only to protect the resident's health and safety and to assist the resident to attain and maintain optimum levels of physical and emotional functioning); and 415.4(a)(2)(ii) (relating that resident's comprehensive care plan must specify type of restraint, release schedules, type of exercise, necessary skin care, and ambulation to be provided).
\end{quote}

Vermont law defines abuse as:
authorized by a physician for a specific time period or needed for an emergency. Residents injured by a facility's violation of this law may sue to recover actual and punitive damages, but the court cannot award attorneys' fees.

Colorado law limits using physical restraints and seclusion to instances in which there is an emergency and no less restrictive alternatives are available or appropriate. According to state law, emergency means a serious, probable imminent threat of bodily harm to self or others. State agencies that use physical restraints must ensure that they do not place excess pressure on the chest or back or inhibit breathing. Staff must release physically restrained persons within statutorily specified time periods, except when precluded for safety reasons.

(A) Any treatment of an elderly or disabled adult which places life, health or welfare in jeopardy or which is likely to result in impairment of health;
(B) Any conduct committed with an intent or reckless disregard that such conduct is likely to cause unnecessary harm, unnecessary pain or unnecessary suffering to an elderly or disabled adult;
(C) Unnecessary confinement or unnecessary restraint of an elderly or disabled adult;
(D) Any sexual activity with an elderly or disabled adult by a caregiver, either, while providing a service for which he or she receives financial compensation, or at a caregiving facility or program;
(E) Any pattern of malicious behavior which results in impaired emotional well being of an elderly or disabled adult.


Id. at § 26-20-115 (7) (defining seclusion).

Id. at §§ 26-20-103 (eff. Apr. 22, 1999) (describing the basis for restraint use and seclusion) and 26-20-104 (eff. Apr. 22, 1999) (detailing the duties related to restraint use and seclusion).

State Actions, supra note 421, at 437 (mentioning Colorado H.B. 99-1090 (1999)).

COLO. REV. STAT. ANN. art. 20 § 26-20-104(1)(b) ("No physical or mechanical restraint of an individual shall place excess pressure on the chest and back of that individual or inhibit or impede the individual's ability to breathe.").

Id. at §§ 26-20-104(2) (outlining relief periods from physical restraint), (3) (delineating relief periods from seclusion) and (4) (governing release from restraint).

For individuals in mechanical restraints, agency staff shall provide relief periods, except when the individual is sleeping, of at least ten minutes as often as every two hours, so long as relief from the mechanical restraint is determined to be safe. During such relief periods, the staff shall ensure proper positioning of the individual and provide movement of the limbs,
Connecticut law requires that residents must be free from physical restraints imposed for discipline or convenience and when not required to treat medical symptoms. Restraints may be imposed only to ensure the safety of the resident or other residents, and then only (except in emergencies) upon a physician's written order that specifies the type of restraint and the duration and circumstances under which restraints can be used.

In Gray v. Jefferson Geriatric and Rehabilitation Center, an Ohio trial court considered liability surrounding a resident's fall from a chair and granted summary judgment in favor of a nursing home, ruling that the law prohibited the facility from using restraints. The appellate court reversed on the grounds that the nursing home could have used effective "nonintrusive methods" that would not have violated the state law governing restraints.

The Minnesota legislature passed and Governor Jesse Ventura signed into law House File 40, Requesting the Use of a Physical Restraint. The new law establishes the right of a competent resident or the family, guardian, conservator, or healthcare agent of an incompetent person to request the use of physical restraints. The Minnesota Department of Public Health is in the unenviable position of defying federal law as they enforce new state law.

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as necessary. In addition, during such relief periods, staff shall provide assistance for use of appropriate toileting methods, as necessary. The individual's dignity and safety shall be maintained during relief periods. Staff shall note in the record of the individual being restrained the relief periods granted.

Id. at § 26-20-104(2).


417 Id.


419 Id.


421 Minn. Stat. Ann. ch. 144 § 144.651 subdiv. 33(a) (Apr. 23, 1999) ("Competent nursing home residents, family members of residents who are not competent, and legally appointed conservators, guardians, and health care agents [as statutorily defined], have the right to request and consent to the use of physical restraint in order to treat the medical symptoms of a resident.").

422 Minn. Stat. Ann. ch. 144A § 144A.10 subdiv. 11(2) (1999) (recommending "to the federal government that fines not be imposed on the [nursing home] facilities referred to in this subdivision or that any fines imposed on these [nursing home] facilities for violations of regulations governing use of physical restraints be rescinded.").
Private Right of Action

State law may provide a statutory private right of action to nursing home residents or their representatives for violations of residents' rights provisions.\(^{423}\) In some states, the misuse of restraints is classified as a form of elder abuse.\(^{424}\) In addition to civil sanctions, state elder abuse laws may include criminal sanctions for restraint misuse or for failing to report such misuse.\(^{425}\) In some states, nursing home supervisors and/or corporate or individual facility owners who are not directly involved in or even aware of the willful misuse of restraints in their

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\(^{424}\) See, e.g., Cal. Welf. & Inst. Code § 15610.63(l)(1)-(3) (West 1999) (classifying misuse of physical restraint as a form of physical abuse in state elder abuse and dependent adult civil protection act).

\(^{425}\) Id.
facilities may not be insulated from vicarious criminal liability, an exception to the well-known principles of agency law.\footnote{Id.}

**PENDING FEDERAL LEGISLATION**

The 106th Congress is considering two Senate bills -- *Freedom from Restraint Act of 1999*\footnote{See S. 736, 106th Cong., 1st Sess. (1999), *available at* http://thomas.loc.gov/search by bill number S. 736 or use key words in title – *Freedom from Restraint Act of 1999*} and the *Compassionate Care Act of 1999*\footnote{See S. 750, 106th Cong., 1st Sess. (1999), *available at* http://thomas.loc.gov/search by bill number S. 750 or use key words in title – *Compassionate Care Act of 1999*} -- as well as one House bill, *Patient Freedom from Restraint Act*.\footnote{See H.B. 1313, 106th Cong., 1st Sess. (1999), *available at* http://thomas.loc.gov (search by bill number H.B. 1313 or use key words in title – *Patient Freedom from Restraint Act of 1999*).} The *Freedom from Restraint Act of 1999* states that service providers eligible to be paid under the Medicare and Medicaid programs must "protect and promote the right of each such individual to be free from physical or mental abuse, corporal punishment, involuntary seclusion, and any physical or chemical restraints imposed for purposes of discipline or convenience."\footnote{S. 736, 106th Cong., 1st Sess. (1999).} This language mirrors that of the NHRA.\footnote{See supra notes 249-321 and accompanying text.} Further, the measure requires restraint use "only to ensure the physical safety of the individual or other individuals in the [provider’s] care" and "only upon the written order of a physician that specifies the duration and circumstances under which the restraints are to be used (except in emergency circumstances)."\footnote{See supra note 427.} Again, the language parallels that contained in the NHRA.\footnote{See supra notes 249-321 and accompanying text.}

Likewise, language analogous to the NHRA appears in the *Compassionate Care Act of 1999* which seeks to protect resident rights by requiring freedom from physical restraints used for punishment or convenience and allowing restraint use only to ensure the physical safety of the resident, or others, and only upon a physician’s specific written order.\footnote{S. 750, 106th Cong., 1st Sess. (1999).}
Similarly, the Patient Freedom from Restraint Act of 1999 limits the use of restraints and seclusion in certain Medicare and Medicaid funded facilities using language resembling the NHRA. Consider bill language protecting the right of each resident to be free from any physical restraint “imposed for purposes of discipline or convenience.” In addition, the measure imposes restraints and seclusion “to ensure the immediate physical safety of the resident” and “only upon the written order of a physician that specifies the duration (not to exceed 2 consecutive hours) and circumstances under which the restraints and seclusion are to be used” with an emergency exception.

PROFESSIONAL STANDARDS OF PRACTICE

“[T]he legal standard of care in professional liability cases is determined in large part by the prevailing customary practice of the industry at the time the alleged negligence took place.” In the last decade, the permissible contexts for physical restraints and siderails have narrowed, making it difficult to demonstrate that restraint use is routine and constitutes accepted good practice in the nursing home setting.

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[436] Id.
[437] Id.

[435] Governing Board’s Role, supra note 39, at 23; American College of Health Care Administrators, Standards of Practice for Long-Term Care Administrators, 15 J. LONG-TERM CARE ADMIN. 11 (1987) (promulgating standards relevant to the conduct of professionals working within the nursing home context); Challenges of Implementing OBRA: Industry Leaders Discuss Hopes, Concerns, 16 PROVIDER 16, 27 (Oct. 1990) (quoting American Health Care Association (principal national trade association for nursing facilities) president as stating that Nursing Home Reform Law “reflects what should be common practice throughout this industry”).
MAJOR ORGANIZATIONAL POSITIONS ON RESTRAINTS

In addition to an increasing tendency for the courts to examine relevant government statutes and regulations, the courts also look to major organizational policy statements regarding restraint use as evidence of the appropriate standard of care under the circumstances. The American Geriatrics Society ("AGS"), for example, approved a Clinical Practice Statement on the use of restraints.\(^4\) In May 1991, AGS took the position that it “strongly advocates the elimination of all types of mechanical restraints and strongly encourages restraint-free environments in all health care settings.”\(^4\) Moreover, a 1999 American Medical Association report recognizes that “bed rails used as restraints add risk to the resident by increasing the possibility of more significant injury caused by a fall from bed with bed rails as opposed to a fall from a bed without rails.”\(^4\)

VOLUNTARY ACCREDITATION STANDARDS

Physical restraint and siderail use is closely scrutinized by accrediting bodies in healthcare.\(^4\) The Joint Commission on Accreditation of Healthcare Organizations is an independent organization of health care professionals that promulgates national standards for health care facilities.\(^4\) A team of physicians, nurses, and administrators conducts an on-site survey of the nursing home.\(^4\) Accreditation means that the nursing home meets JCAHO’s minimal standards as evaluated by the surveying team.\(^4\) Although adherence to JCAHO guidelines is voluntary, JCAHO standards often are allowed into evidence on the acceptable tort standard of care.\(^4\)

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\(^4\)Id.

\(^4\)Guttmann, supra note 48, at 101-05.

\(^4\)See, e.g., JOINT COMM’N ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS, LONG-TERM CARE STANDARDS MANUAL (1996), Standard RL2.6 (defining restraint), Standard TX8.6 (emphasizing a restraint-free environment), Standard TX8.3.1 (requiring restraint alternatives and safe, appropriate restraint use when alternatives prove ineffective). [hereinafter JCAHO MANUAL]

The 1996 JCAHO Comprehensive Accreditation Manual for Long-Term Care defines a physical restraint as "[a]ny method of physically restricting a person's freedom of movement, physical activity, or normal access to his or her body." In general, the JCAHO standards address physicians' orders, time limitations and observations of restraint use with the goal of achieving a restraint-free environment. The standards emphasize safe, appropriate restraint use when alternatives prove ineffective.

RISK MANAGEMENT STRATEGIES

In nursing homes, risk management strategies seek to minimize lawsuits filed by or on behalf of residents, their families, staff, employees, and visitors. Studies examining restraint use in nursing homes highlight the non-efficacy and unacceptable risk of using restraints to prevent falls and fall-related injuries. Thus, routine restraint use does not constitute good legal risk management.

30, 1999) (discussing accreditation by a recognized private organization such as JCAHO); Report to Congress: Study of Private Accreditation (Deeming) of Nursing Homes, Regulatory Incentives and Non-Regulatory Initiatives, and Effectiveness of the Survey and Certification System (July 1998) (examining the three issues identified in the title); 42 C.F.R. Part 488 (addressing application and reapplication procedures that apply to private accreditation organizations requesting deeming authority to nursing homes); Facts About The Joint Commission on Accreditation of Healthcare Organizations, available at http://www.jcaho.org/aboutjc/jcinfo.htm (last visited Sept. 10, 2000) (providing JCAHO mission statement, describing accreditation process generally, and relating organization history); 55 Fed. Reg. 51,434 (1990) (proposing JCAHO nursing home accreditation).

See generally, JCAHO MANUAL, supra note 455.

See Kapp, GERIATRICS AND THE LAW, supra note 415, at 144 ("[JCAHO] guidelines are frequently relied on by courts as legally enforceable standards.").

See JCAHO MANUAL, supra note 455, at Standard RI.2.6.

See generally, JCAHO MANUAL, supra note 455.

Id.

See generally, ANDREW D. WEINBERG, RISK MANAGEMENT IN LONG-TERM CARE (1998).

See supra notes 79-139 and accompanying text.
An effective risk management program relies on several components, including, but not limited to, those discussed below. Unfortunately, even the best risk management program cannot immunize a nursing home from claim exposure. For this reason, the facility should consider placing alternate dispute resolution procedures in resident service agreements and employment relationships.

Institutional Philosophy
The facility should consider drafting an institutional philosophy on restraint and siderail use. Reducing or eliminating physical restraint and siderail use takes an organized, planned effort. "If the administrator and the director of nursing become committed to restraint-free care, it will happen. In fact, this may be the single most important factor in achieving restraint-free care."

Facility Policy and Procedure
All nursing homes should have policy and procedures regarding physical restraints and siderails consistent with federal and state regulations. A written institutional policy should include specific, well-defined indications for restraint use (for example, restrain a resident if

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452 Barry D. Halpern & Thea F. Silverstein, Ethical Considerations in Elder Care, 44 U. KAN. L. REV. 783, 786 (July 1996).
453 Id. at 786.
454 An institutional philosophy on restraint use developed by a Baltimore nursing home for distribution to all new residents and families at the time of admission states:

We believe that residents have the right to a care-giving environment that maximizes their mobility and personal autonomy. We have a responsibility to provide that environment, balancing safety and freedom of movement for all residents. The use of restraints and the immobility they cause may lead to physical and emotional problems. We are committed to providing individualized programs using creative alternatives to enable residents to attain their maximal levels of physical, mental, and psychosocial functioning. In this way, restraint use can be minimized. The involvement of the resident, family and friends is vital in establishing programs that will keep residents mobile, involved, and safe. Ongoing staff education about methods for promoting mobility and independence in elderly residents, including those who are confused, wandering, or disruptive, is essential. We believe that an involved and informed staff provides the optimal care-giving environment in which restraint use is minimized.

Kramer, supra note 101, at 160.
455 Carter Catlett Williams & Caleb E. Finch, Physical Restraint Not Fit for Woman, Man, or Beast, 45 J. AM. GERIATRICS SOC'Y 773, 774 (1997).
he or she poses an immediate threat to self or others) with clear parameters regarding administrative functions (informing a supervisor and/or director of nursing of the decision to restrain within an hour of receiving a physician’s order or requiring multidisciplinary team/committee approval of restraint use) and time (such as limiting orders for restraints to 24 hours of use). Evidence that written institutional policies and procedures have not been enforced is essential for establishing that the standard of care has not been met.

Physician Responsible for Resident Care
Physicians responsible for resident care must be familiar with restraints and their alternatives. They should understand and subscribe to nursing home philosophy and expectations regarding their use. Medical staff bylaws should detail facility expectations regarding informed consent and other aspects of restraint and siderail use. Policy and procedure should promote careful assessment, application, and documentation of restraint use. The nursing home’s quality assurance system should examine restraint ordering behavior, informed consent and other processes (such as assessments) involving restraints.456 The deference courts show professional judgment involved in decisions not to use restraints or siderails should supply nursing home administrators with the confidence to develop and implement policies rejecting routine restraint use.457

456 See Kapp, Restraints & Legal Liability, supra note 39, at 29-30.
457 See, e.g., Judge v. Covina Valley Community Hosp., No. KC026950, 1998 WL 1017021 (Los Angeles Cty. Super. Ct. Dec. 28, 1998) (finding for the defendant hospital, the court agreed that the decision not to restrain the patient who fell and broke his hip while unrestrained was a judgment call on the part of the nurses); St. Fernandez v. John’s Pleasant Valley Hosp., No. CIV 169167, 1997 WL 875018 (Ventura Cty. Super. Ct. Cal., Dec. 3, 1997) (deferring to professional judgment, a California jury returned a defense verdict in a case arising from a patient’s fall from an exam table reasoning that the nursing standard of care did not require the use of side rails and a call light with a patient whose vital signs were normal, stable, and who had received a routine antibiotic injection); Defense Verdict in Suit Arising from Patients Fall from Exam Table, 18 No. 1 VERDICTS, SETTLEMENTS & TACTICS 9 (Jan. 1998) (discussing Fernandez v. John’s Pleasant Valley Hosp.). Even when finding nursing homes liable, the courts consistently emphasize that the facilities could fulfill their responsibilities by monitoring and supervising residents instead of imposing restraints. See, e.g., Robinson v. U.S., No. K85-349 CA (W.D. Mich. 1987) (finding that the Veterans Administration medical staff should have monitored and supervised the resident and noting no standard of care violation in deciding not to restrain the resident 24 hours a day); Krestview Nursing Home, Inc. v. Synowiec, 317 So.2d 94 (Fla. Dist. Ct. App. 1975), cert. denied, 333 So.2d 463 (Fla. 1976); McGillivray v. Rapides Iberia Management Enters., 493 So.2d 819, 823
Staff Education and Training

Another component of good risk management involves extensive education at all levels within the nursing home -- from the governing body to the nurses and nurses' aides who provide hands-on care to residents.\(^{458}\) Education influences attitudes, beliefs, and knowledge regarding restraint and siderail use.\(^{459}\) Facilities should mandate comprehensive, up-to-date staff development regarding restraints and fall prevention interventions for all administrative and resident care staff.\(^{460}\) Introduction to this topic should be an essential part of a new employee’s orientation.\(^{461}\) A facility should establish regular staff training programs that:

- Describe research findings concerning restraint and siderail use and their application to clinical practice;
- Explain the ineffectiveness of restraints, including siderails, as a fall prevention strategy;
- Provide role playing or experiential activities emphasizing the resident's perspective on wearing a restraint;
- Emphasize resident quality of life and related rights;
- Reinforce facility philosophy regarding restraint use;
- Review institutional policy and procedure regarding restraints and stress the importance of institutional compliance with its own protocols;\(^{462}\)
- Invite staff from nursing homes with successful restraint and siderail reduction or elimination programs to share their experiences;

\(^{458}\) See Patterson, supra note 129, at 231-35; Kapp, Restraints & Legal Liability, supra, note 39, at 29. Some state-approved nurse aide training programs must include identification and prevention of improper use of physical restraints in their curriculum pertaining to residents' rights. See, e.g., PA. STAT. ANN. tit 63, § 673(4) (West 1999).

\(^{459}\) See Patterson, supra note 129, at 231-35.

\(^{460}\) Id.

\(^{461}\) See Kapp, Restraints & Legal Liability, supra note 39, at 29-30.

\(^{462}\) See, e.g., Lajana Ledford & Janet Mentes, RES.-BASED PROTOCOL: RESTRAINTS (Marita G. Titler ed., 1997) (detailing a research-based practice protocol designed by the Univ. of Iowa College of Nursing with funding provided by Grant #P30 NR03979 from the Nat'l Inst. of Nursing Research). Obtain copies of the protocol from Marita G. Titler, Director, Gerontological Nursing Interventions Research Ctr., Research and Dissemination Core, 4118 Westlawn, The Univ. of Iowa, Iowa City, IA 52242; telephone (319) 335-5843. Alternatively, at http://www.nursing.uiowa.edu/gnic for protocol ordering information.
• Offer staff visits to restraint-free nursing homes;
• Incorporate educational videos on restraint and siderail issues;
• Describe categories of at-risk residents (for example, those with a fall history);
• Describe individualized interventions to address the at-risk resident’s unique needs;
• Illustrate behavioral approaches in the management of behavioral symptoms such as wandering and agitation; and
• Highlight legal liability associated with restraints and siderails.

**Documentation**

The resident or their legal representative is guaranteed full access to the resident’s medical record.\(^{463}\) From a risk management perspective, documentation is imperative before employing or refraining from restraint or siderail use. The facility should systematically review documentation for all restrained residents to validate compliance with minimum standards of care as well as federal, state, and local laws regarding restraint use.\(^ {464}\)

“[C]are alternatives used to replace physical restraints may be as many as the reasons for using them and as varied as the specific needs of each nursing home resident.”\(^ {465}\) Fortunately, products, educational manuals, and videos describing how to reduce restraint and siderail use as well as how to prevent falls are readily available.\(^ {466}\) An important

\(^{463}\)**See** 42 C.F.R. § 483.10(b)(2) (1999) ("The resident or [ ] legal representative has the right [u]pon an oral or written request, to access all records pertaining to [resident] including current clinical records within 24 hours[.]"); HCFA GUIDANCE, supra note 10, at PP-45.

\(^{464}\)**See** Steven Lipson, *The Restraint-Free Approach to Behavior Problems in the Nursing Home*, 43 MD. MED. J. 155, 157 (1994) (outlining “restraint proper” approach to treating behavior problems: assess the problem, establish a presumptive diagnosis, consider the risks and benefits of treatment alternatives, select the best treatment for the individual patient, evaluate treatment effectiveness and side effects, change treatment as necessary, discontinue treatments when no longer needed, and provide documentation).


\(^{466}\)**See** NEVILLE E. STRUMPF ET AL., *RESTRAINT-FREE CARE: INDIVIDUALIZED APPROACHES FOR FRAIL ELDERS* (1998). This manual helps clinicians, administrators, and families attain the goal of restraint-free care of frail elderly persons. Practical alternatives to restraint models of support, developed by nursing home and hospital caregivers, are presented as individualized care models. The manual is organized in outline form to highlight critical material and to ensure quick access to solutions. It highlights the objectives of restraint-free care including not only comfort and safety, but also the best possible quality of life. This philosophy of care requires that caregivers make sense of resident behaviors, rather than to simply control their responses. Contents include: rethinking restraint use; implementing a
component of risk management involves documenting the decision-making process involved in determining a plan of care to address fall risk and specific use of fall prevention interventions. This includes documentation of:

- The assessment of the resident for fall-related risk factors upon admission and after any fall;
- A process of professional judgment demonstrated by a multidisciplinary assessment and care plan;
- Alternative interventions implemented; and
- Resident's response to these interventions.

When restraint is employed, there must be considerable documentation regarding rationale for usage and the strategies used to reduce or eliminate restraint use. The health care record must demonstrate:

- Why restraints are being considered;
- That the underlying conditions that contributed to fall risk have been adequately addressed;
- The resident's response to less restrictive alternatives implemented prior to restraint or siderail use;

See also Videotape: Individualized Wheelchair Seating for Older Adults: An Important Link to Restraint-Free Care (Benedictine Inst. for Long-Term Care (Mt. Angel, OR) 1998). This set of videotapes and manuals is designed to help professional and non-professional caregivers learn about the importance of proper seating for older adults. Many persons are restrained because they are sitting in the wrong wheelchair. Direct inquiries in writing to Benedictine Institute for Long Term Care, 980 S. Main St., Mt. Angel, OR 97362; by telephone to (503) 845-9495. See also Joanne Rader et al., Individualized Wheelchair Seating: Reducing Restraints and Improving Comfort and Functions, 15 TOPICS IN GERIATRIC REHABILITATION 34-47 (1999); Joanne Rader & Elizabeth M. Tomquist, INDIVIDUALIZED DEMENTIA CARE (Springer Publ’g Co. (New York, NY) (1995); Karen A. Talerico et al., Videotape, RESTRAINT FREE CARE (Healthcare Multimedia Group, Inc. 1995); Nancy Boehno et al., Videotape, RESTRAINT REDUCTION AND FALL PREVENTION (Envision, Inc. 1999); Joan M. Dunbar et al., Retrain Don't Restrain: The Educational Intervention of the National Nursing Home Restraint Removal Project, 36 GERONTOLOGIST 539, 539-42 (1996) (educating and encouraging direct-care interventions with the goal of restraint-free facilities).
• Physician's written order for restraint use, including type and size of restraint, when to be used, length of order, and rationale for usage;
• Time frame for restraint use;
• Evaluation of the continuing need for restraints or siderails because the resident's health/functional status can change;
• Specific restraint reduction efforts (for example, use of belt restraint in wheelchair removed two hours each day during group activities and family visits);
• How often the facility staff observe and monitor the restrained resident because restrained residents need extra monitoring, not less (for example, restrained residents should be observed frequently and the physical restraints should be removed at least every two hours (more often if necessary) for re-positioning in order to allow for normal body functioning and activities of daily living);
• Resident's clinical condition including circulation and skin integrity of limbs and dependent body part at least every two hours (for example, buttocks and posterior thighs if restrained in a wheelchair);
• Specific interventions to increase wearer's comfort;
• How staff have met the resident's hydration, feeding, and toilet needs; and
• Resident's verbal and behavioral response to restraint or siderails.

The nursing home record should document the resident's informed consent for restraint application or removal. For example, a woman with cerebral palsy who is unable to hold herself in an upright sitting position may choose to restrict freedom of movement so that she may engage in activities which she would otherwise be unable to do. This information would appear in her chart or care plan.\textsuperscript{467} Staff may describe resident gestures evidencing restraint refusal in the nursing home record.\textsuperscript{468} For example, a confused woman unable to speak, read, or write who angrily shakes her fist and stomps her feet at anyone attempting to apply a restraint is clearly communicating a desire to be free from restraints.\textsuperscript{469}

\textsuperscript{467}See Dodds, supra note 231, at 160.
\textsuperscript{469}Id.
Consultation Services & Industries Offering Restraint Alternatives
Consultation services have responded to the growing number of requests for information on restraint and siderail use and their relationship to falls and fall-related injuries. For example, the Gerontologic Nursing Consultation Service ("GNCS"), founded by several faculty members from the University of Pennsylvania School of Nursing in the late 1980s, provides consulting services on a variety of topics, including restraint use and its relationship to falls and fall-related injuries. The GNCS client base includes: nursing homes; hospitals; area agencies on aging; law firms; individuals and their families; managed care; retirement communities and other long-term care systems; as well as engineering, architectural and other businesses involved in new product development and design.

In addition, businesses have emerged to respond to the need for restraint alternatives. For example, RN+ Patient Monitoring System provides bed alarms that signal only when a resident is attempting to leave their bed or wheelchair unassisted. A portable signal unit mounts on the resident's bed or chair with Velcro strips. Thin, flexible weight-sensitive strips are placed under the bed linens or under most foam or sheepskin pads. The sensor strips detect the absence of weight and sound an alarm. The receiver operates independently of the nurse call system and may be kept at the nurse's station. Clinical studies demonstrate a reduced fall rate with alarms that detect resident position changes and associate a reduced fall rate with pressure-sensitive alarm use. Alarm effectiveness, however, depends on the

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470 Direct inquiries about GNCS to: Rebecca Snyder Phillips, Director, Gerontologic Nursing Consultation Service, Univ. of Pennsylvania, School of Nursing, Penn Nursing Network, 3615 Chestnut Street, RH #322, Philadelphia, PA 19104-2676 or telephone (215) 898-4998.
471 Id.
472 For more information, write RN+ Systems, Tactilitics, Inc., 5595 Arapahoe Road, Suite B, Boulder, Colorado 80303, or telephone (800) 727-868.
473 RN+ Systems product brochures on file with authors.
474 Id.
475 Id.
476 Id.
477 See, e.g., Else M. Innes, Maintaining Fall Prevention, 11 QUALITY REV. BULL. 217-21 (1985); Bette Widder, A New Device to Decrease Falls, 6 GERIATRIC NURSING 287-88 (1985).
478 See, e.g., Ann L. Hendrich, An Effective Unit-Based Fall Prevention Plan, 3 J. NURSING QUALITY ASSURANCE 28, 28-36 (1988); Ann L. Hendrich, Unit-Based Fall Prevention, 10 J. NURSING QUALITY ASSURANCE 15, 15-17 (1988).
ability of staff to reach the resident in a timely manner. Non-restraint interventions described earlier have fostered the development of products by a variety of manufacturers to promote comfortable, individualized seating as well as facilitate safe mobility and transferring.

RISK MANAGEMENT STRATEGIES FOR RAILS

An effective risk management strategy to prevent entrapment deaths and injuries includes:

- Inspecting all bed frames, bed siderails, and mattresses during a regular maintenance program seeking to identify possible entrapment areas.
- Assessing proper selection and fit. Mattress width, length, and/or depth, alignment of the bed frame, bed siderail, and mattress should leave no gap wide enough to entrap a resident’s head or body between the rails and mattress. This is particularly important with confused or restless residents. Movement or compression of the mattress caused by a resident’s weight, movement, or bed position may cause gaps.
- Confirming that the mattress matches and fits relative to rails width and height. Replacement mattresses and siderails may have dimensions that differ from the original equipment supplied or specified by the bed frame manufacturer. Not all siderails, mattresses, and bed frames are interchangeable. Variation in rail design and mattress thickness and/or density may affect the potential for entrapment. When siderails and mattresses are purchased separately from the bed frame, check with the manufacturer(s) to ensure compatibility of the siderails, mattresses, and bed frame.
- Installing siderails according to their manufacturer’s instructions. This should make for a proper fit and avoid bowing, among other possible problems, by ensuring the proper distance from the head and footboard.
- Considering additional safety measures for residents identified as high-risk for entrapment (those with pre-existing conditions such as altered mental status (organic or medication related), confusion, restlessness, lack of muscle control, or a combination of these

480 See FDA ENTRAPMENT ALERT, supra note 165.
factors). Increased risk also occurs when the bed-bound resident's size and/or weight are inappropriate for the bed's dimension.

- Using siderail protective barriers to close off open spaces in which a person might accidentally become entrapped. Follow facility procedures and/or the manufacturer's recommendations for installing and maintaining siderail protective barriers for a particular bed frame and siderail.

- Following facility protocol and manufacturer instructions as well as federal, state, and local regulations regarding restraint use. Do not substitute siderails for other restraints, such as a vest or wrist/leg device.

- Giving careful (and creative) thought to develop other interventions to replace traditional siderail use. Switching from full to half rails or no rails does not automatically make the situation better. Nor does placing the bed on the floor. All devices must be individually and carefully assessed for how they affect the individual's safety, burden, comfort, and well being.

FALL PREVENTION ASSESSMENT SYSTEM

An interdisciplinary team can develop a fall prevention assessment system. The team should identify processes and protocols on resident falls; conduct a retrospective audit of incident reports related to falls per resident day; and audit resident charts for factors associated with falls. Supplement this internal benchmarking with external information about predicting and preventing falls (for example, a literature review).

In addition, require completion of a risk management occurrence report for every restraint- or siderail-related fall and injury to be forwarded to the risk management department within 24 hours. A fall resulting in a serious injury (such as, a fracture, head injury, laceration requiring suturing, or death) should be reported immediately to a physician. The licensed nurse and physician should document objective assessment and findings of the incident in the resident's medical record.

CONCLUSION

Despite growing empirical evidence that physical restraints and siderails do not prevent falls, administrators, nurses, and physicians are concerned with the legal implications of changing practice. This fear is
reinforced by a false perception that failure to use restraints and siderails puts facilities at risk for legal liability. The real basis of liability is a lack of care addressing fall risk. Federal regulations and professional standards of care support an individualized assessment of fall risk accompanied by appropriate intervention. Clearly, risk management strategies eliminating or reducing restraint use best serve the legal interests of nursing homes.