CHAPTER 16

Mother–infant cosleeping: toward a new scientific beginning

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"Breastfeeders are three times more likely to bed share and appear to differ from non-breastfeeding bed-sharers on several characteristics. These data do not link bed-sharing to risk of SUDI."1

The findings suggest that it is not bed-sharing per se that is hazardous, but rather particular circumstances in which bed-sharing occurs.3

Introduction

This chapter examines several important conceptual issues related to the biological functions of mother–infant cosleeping, as well as critical aspects of the controversy surrounding the relationship between bed-sharing and SIDS. A definition of safe mother–infant cosleeping (as distinct from safe and unsafe bed-sharing) is proposed to potentially reconcile and make more precise the nature of discourse in this research area. Just as most researchers accept without question the necessity of distinguishing between safe and unsafe cribs, and safe and

unsafe ways to place infants to sleep alone in cribs, we call attention to the need to distinguish between safe and unsafe beds and bed-sharing. Short-term benefi
cial physiological effects of cosleeping are reviewed, and results from a NICHD-funded behavioral and physiological study of Latino mother–infant bed-sharing are presented to illustrate why blanket recommendations against bed-sharing4–9 are inappropriate and scientifically unjustified. Data collected among low risk mother–baby pairs provide the basis for speculations that, in otherwise safe physical and social circumstances, routine bed-sharing with breastfeeding might reduce the risks of SIDS among some infants, in some cultural groups.6–9

Clarifying definitions

TAXONOMY OF COSLEEPING, BED-SHARING AND DANGEROUS CONDITIONS

Mother–infant cosleeping represents the preferred and obligatory sleeping arrangement for most contemporary people, and under most circumstances this arrangement continues to provide maximum protection and nutrition (through night-time breastfeeding) for the highly neurologically immature and slow develop
ing human infant. As breastfeeding rates push to all time highs in Western countries10 mother–infant cosleeping is rapidly becoming the arrangement of choice for many urban Western parents, as it appears that breastfeeding and bed-sharing are mutually reinforcing.1,11,12

Despite this fact, so variable is the range of ‘factors’ associated with especially one type of cosleeping, i.e. bed-sharing, which significantly influences outcomes, no single recommendation to bed-share either as a way to reduce SIDS or to enhance the night-time attachment behaviors shared between parents and their children is appropriate at this time; but neither is it appropriate, we argue, to re
commend in an unqualified way against bed-sharing, or to advise that infants should ‘never’ sleep with their parents. Such an unqualified recommendation confuses species-wide normal, healthy human behavior, i.e. forms of mother–infant cosleeping practiced safely by millions of human beings, with dangerous pieces of furniture, and/or dangerous social conditions, and confuses adaptive behavior (cosleeping) with behavioral pathology.

In the context of SIDS and pediatric sleep research we propose that the term cosleeping be used generically to describe a diverse, but proactive, generalized class of sleeping arrangements, and not be limited to any one particular ‘type’ of cosleeping arrangement as, for example, bed-sharing per se (see below). One step toward standardizing a definition of safe mother–infant cosleeping that can be extended to include situations where high levels of mother or caregiver–infant body contact occurs during sleep is to apply the description safe cosleeping to particular ‘types’ of sleeping arrangements, in which at least one proactive, responsible, adult cosleeper (whether mother or not) takes safety precautions unique to the particular ‘type’ of cosleeping practiced; and, regardless of
whether sleeping occurs on the same or a different surface with another adult present, the cosleeping dyad is potentially able to communicate through multiple, but minimally two mutually reinforcing sensory modalities as, for example, through a combination of at least tactile and visual, or auditory and olfactory, or visual and auditory, and/or auditory and vestibular sensory channels.

Safe mother–infant cosleeping can be applied to bed-sharing situations where the overall bed-sharing context (physical setting and social circumstances including triadic situations) are made as safe as current knowledge permits, and where at least one adult cosleeper/caregiver not only is present, but in addition to being physically capable of potentially detecting and responding to changes in the baby’s status, the cosleeper is motivated and willing to do so. Sleep location per se such as infants sleeping alone on an adult bed without a parent present (sesam) Drago and Dannenberg1 and Nakamura et al.2 is not considered bed-sharing, using this operational definition.

As proposed, a safe cosleeping environment must always provide the infant with the opportunity to ‘sense’ and respond in turn behaviorally and/or physiologically to the caregiver’s signals and cues as, for example, to the mother’s smells, breathing sounds, infant directed speech, sleep or breathing movements, invitations to breastfeed, touches or to any as yet unidentified ‘hidden’ sensory stimuli, whether intended or not. In this way, bed-sharing is not necessarily excluded from being considered one type of safe ‘cosleeping’ but nonetheless, like other specific ‘types’ of cosleeping, bed-sharing needs further to be taxonomically differentiated into one of two sub-types: safe or unsafe. Although the same can be said for almost any sleeping arrangement such as solitary crib sleeping, bed-sharing is probably practiced slightly differently in each household. Yet, now we can identify specific, modifiable ‘bed-sharing risk factors’ as well as ‘crib risk factors’3,4,11 that should help to eliminate unnecessary risk regardless of location or arrangement.

**Cosleeping in form, function and outcome**

We maintain that sleep location is but the beginning, not the end point, for analysis in studying sleeping arrangements, and that all ‘types’ of cosleeping must be distinguished by the condition and composition of sleeping structures or pieces of furniture or materials which are used, including characteristics of the sleep surface (hard, soft, fibrous, textured or smooth), and by the bedding materials including infant sleep wrappings, nightclothes and/or blankets, as well as by who, and/or how many people, are sleeping close to, with or by, the infant or child.

Compared with solitary infant sleep, analytically important features of the cosleeping environment are more numerous and more complex. For example, in the bed-sharing environment it appears that the quality of care the infant receives from the caregiver once in bed is partially determined by the nature of their social relationship outside of the bed, which often helps to explain the parent’s reasons for cosleeping. For example, mandatory, non-elective bed-sharing by smoking mothers that occurs in socially chaotic households where bed-sharing is the only option leads to outcomes quite different from those situations in which bed-sharing is chosen by a non-smoking mother specifically to protect, nurture and breastfeed her infant, under more routine and stable social circumstances.1,2,4,6

Only recently have we started to address the impact of particular adverse circumstances on the bed-sharing environment. Amongst parents of infants who have died unexpectedly in Great Britain the prevalence of alcohol consumption, cigarette smoking and the use of illegal drugs was also higher, whilst the infants exhibited adverse clinical features at birth (prematurity, low birth weight). Moreover, during their short lives these doomed infants experienced more infections and lower daily weight gains, suggesting increased vulnerability from the beginning.1,3,7 Treating bed-sharing as a starting point in which risks occur, rather than as a crude end-point, Blair et al.2 found no evidence to suggest that bed-sharing was a risk amongst parents who did not smoke, or amongst infants 4 months or older (see Ref. 1 for corroborating USA data).

In another study in St Petersburg, Russia, compromised maternal attachment was associated with many babies who died while bed-sharing. Physicians of the dead infants indicated that the mothers of deceased infants had been less eager ‘to quiet or comfort’ their infants in general, and while their infants were being examined (by the physician) before their deaths these mothers ‘paid less attention to the baby’s responses’ and were less willing or likely to touch or look at them, compared with matched control mothers whose babies lived.11

**PARTICULAR ‘TYPES’ OF COSLEEPING**

**Bed-sharing, room-sharing, sofa and recliner use**

Bed-sharing is just one of many forms of cosleeping, and while all bed-sharing represents a more intimate type of cosleeping, not all cosleeping takes the form of bed-sharing. Moreover, safe bed-sharing can now be distinguished from unsafe bed-sharing. For these reasons ‘cosleeping’ and ‘bed-sharing’ are not synonymous and should not be used interchangeably, a distinction not acknowledged by Drago and Dannenberg1 and Nakamura et al.2 in their recent condemnation of ‘cosleeping’ and ‘bed-sharing’.

Bed-sharing is complicated because it involves different furniture components sometimes articulated but sometimes not. Adult beds mostly include mattresses, usually but not always surrounded by other pieces of furniture, such as wooden or metal frames. Sleeping in or on a bed represents one of the major contexts within which cosleeping amongst Westerners is likely to take place. Bed-sharers sleep on at least one, and sometimes two types of mattress, (a box spring under a cloth mattress in many Western societies) although cloth mattresses can sit on the floor without a frame, which for infants may prove dangerous if positioned next to a hard wall or surface. The space between a wall and a mattress can lead to the infant’s head becoming wedged causing asphyxiation, a major category of mechanical death reported by Drago and Dannenberg.3

In Western societies cosleeping can also occur on sofas, recliners, on child beds, or daybeds, or even while the adult sits or sleeps on chairs which recline,
or rock. In some areas in the United States (e.g., Michigan), these types of infant death are lumped into the category of bed-sharing/cosleeping deaths which makes less precise the understanding of the dangers posed by any one sleep environment, and significantly misrepresents and exaggerates the numbers of deaths associated with true bed-sharing. However, cosleeping on a sofa, couch, waterbed or recliner, may be highly risky.24

ROOM-SHARING AS A FORM OF COSLEEPING

Room-sharing between infants and parents increasingly is the norm in many Western countries and is associated with increased protection against SIDS, although studies showing the protective effects of room-sharing did not include data on the actual proximity of infants to their caregivers, or if mothers were breastfeeding. Nevertheless, depending on whether or not the infant and parent can see, and/or hear, and/or smell, each other, and if the caregiver intends to monitor and respond to an infant, room-sharing can be considered another form of safe cosleeping, although there is, of course, a spatial distance outside of which caregiver–infant sensory exchanges which define cosleeping (as proposed here) are impossible.

Epidemiologic data show that in the presence of an adult caregiver room-sharing infants are four times less likely to die from SIDS than are infants sleeping either alone, or in the same room with siblings19; similar results are reported from the CESDI study conducted in the UK, and reported by Blair et al.20 Indeed, the CESDI study suggests that infants who sleep in a separate room are more likely to die from SIDS than are infants who bed-share for part of the night, and who remain in the room close to the mother. For example, in a univariate analysis of the CESDI data set, in which separate room sleeping in a cot/crib was the reference group (OR 1.00) with 95% CI, the odds ratio for babies room-sharing was 0.51 (0.35, 0.74). Partial bed-sharing was 0.33 (0.19, 0.57), while for those infants found bed-sharing the OR was 1.49 (0.99, 2.24). The highest odds ratio was calculated for sofa sleeping, 15.79 (4.43, 56.24).16

SDS BED-SHARING EPIDEMIOLOGY

SIDS bed-sharing epidemiology and catastrophic 'overlays' occur mostly, (often exclusively) in the context of extreme high risk–infant-friendly adult beds and the elimination of dangerous 'factors' are called for.

Blair et al.20 argue against a simplistic analysis of expected outcomes associated with bed-sharing. Using data collected during the CESDI study in Great Britain that includes 325 SIDS and over 1300 controls, Blair proposes an a priori epidemiologic model which examines bed-sharing behavior not as a risk factor itself, but as a particular kind of environment within which specific risks may or may not appear. An analogy is that, merely because some parents lay their baby in a crib prone with a covered head, loose coverings, and a poorly fitted soft mattress, it is not appropriate to conclude that crib sleeping is a risk factor for SIDS, only that there are safe and unsafe ways to use cribs.

No data support the idea that bed-sharing among non-smoking parents increases the risks of SIDS. In fact, similar to other epidemiologic studies, a high percentage (84%) of SIDS mothers in the CESDI study smoked after the infant was born. A high percentage (66%) smoked during pregnancy, (68% afterwards), while 28% of SIDS mothers breastfed their babies for at least 4 weeks, compared with 40% of the controls. This means that it could not be determined if bed-sharing in combination with breastfeeding among non-smoking mothers might prove protective, as our research team has hypothesized. Non-smoking, breastfeeding and bed-sharing mother–baby pairs are consistently under-represented in SIDS populations especially in urban settings, making it difficult to assess the potential protective effects of multiple positive factors which promise, we argue, improved outcomes associated with bed-sharing.

The origins of mother–infant cosleeping

How do we know that 'cosleeping' remains 'biologically appropriate'? The cultural near-universality of the supine infant sleep position, the single most important factor known to reduce the chances of an infant dying from SIDS, can best be explained by understanding that it functions to facilitate breastfeeding, when expressed within the micro-environment within which it evolved: the mother–infant cosleeping/breastfeeding context. That is, the supine infant sleep position evolved in tandem with breastfeeding, and indeed studies show that without instruction the supine infant sleep position by the infant is chosen by the breastfeeding mother nearly 100% of the time, compared with instances in which the infant is placed in a crib to sleep alone.22 Hence, supine infant sleep likely emerged to facilitate breastfeeding during nighttime mother–infant cosleeping.

Human infants appear pre-sensitized, as if biologically "expecting" to receive sensory signals linking them to a cosleeping partner, to signals such as breathing sounds,23 chest movements,24–26 smell of mother's breast milk and touches. All of these factors have been shown to change human infant physiology, including heart rate and breathing patterns in clinically advantageous ways, and to reduce excessive nighttime human infant crying.24

Indeed, in the absence of an explanation, the best chance of determining how and why supine infant sleep might be protective should begin by first acknowledging that sleep position is but one factor in a constellation of other factors (arousals, sleep stage progression and duration, body orientations, feeding, touching and movement patterns, time asleep, time awake, body temperature, vocalizations) which mutually regulate each other when the breastfeeding mother–infant dyad sleeps in close enough proximity, changes argued by researchers other than ourselves to be protective against SIDS (Tables 16.1 and 16.2).
Table 16.1 Effects of bed-sharing on infant sleep**

<table>
<thead>
<tr>
<th></th>
<th>BN vs SN</th>
<th>P value</th>
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<tbody>
<tr>
<td>Total wakefulness during sleep</td>
<td>↓ 14%</td>
<td>0.008</td>
</tr>
<tr>
<td>Sleep stage percentages (of TST)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Stage 3–4</td>
<td>↓ 4%</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>% Stage 1–2</td>
<td>↑ 3%</td>
<td>0.036</td>
</tr>
<tr>
<td>% Stage REM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean stage durations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stage 3–4</td>
<td>↓ 16%</td>
<td>0.027</td>
</tr>
<tr>
<td>Stage 1–2</td>
<td>↑ 16%</td>
<td>0.005</td>
</tr>
<tr>
<td>Stage REM</td>
<td>↑ 26%</td>
<td>0.001</td>
</tr>
<tr>
<td>Waking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arousal frequency (per hour)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stage 3–4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EWS</td>
<td>↑ 38%</td>
<td>0.014</td>
</tr>
<tr>
<td>TAs</td>
<td></td>
<td></td>
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<tr>
<td>Stage 1–2</td>
<td></td>
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<tr>
<td>EWS</td>
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<td>TAs</td>
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<tr>
<td>Stage REM</td>
<td></td>
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</tr>
<tr>
<td>EWS</td>
<td>↓ 35%</td>
<td>&lt;0.001</td>
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<tr>
<td>TAs</td>
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</tr>
</tbody>
</table>

Table reflects results of 2 × 2 repeated measures ANOVA (laboratory sleeping condition × routine sleeping condition). Entries show significant (P < 0.05) effects of laboratory condition (BN vs SN).

**See Refs 8, 9, and 34.

BN: bed-sharing night; SN: solitary night.

Mother-infant bed-sharing and breastfeeding

From the perspective of the breastfeeding mother-infant dyad, what does it mean to ‘bed-share’? Over a 15-year period our research team conducted three separate studies of mother-infant bed-sharing. The empirical studies challenge the validity of many widely-held models concerning what constitutes ‘normal and healthy’ infant sleep and under what conditions ‘normal infant sleep’ can be quantified and defined. In our most recent laboratory study our research team quantified differences in the sleep behavior and physiology of 70 mothers and infants. This study involved over 105 separate nights in the laboratory, 155 eight-hour infrared video recordings, and 210 separate mother and infant (8-hour) polysomnographic recordings as nearly exclusively breastfeeding mothers and their infants shared a bed or slept apart (in adjacent rooms), over three successive nights per pair (see Ref. 5 for methods and details).

BREAST-FEEDING IN SOLITARY AND BED-SHARING ENVIRONMENTS

The ‘choice’ to cosleep specifically in the form of mother-infant bed-sharing was found to double not only the number of breastfeeding episodes, but increase by threefold the total nightly durations of breastfeeding and to shorten...
significantly the average intervals between the breastfeeding sessions (Figs 16.1 and 16.2).

We have also found that without instruction, the routinely bed-sharing breastfeeding mothers almost always placed their infants in the safe supine infant sleep position, probably because it is difficult if not impossible for the mother to breastfeed a prone sleeping infant. For these reasons, we argued that bed-sharing promotes increased breastfeeding with potentially significant health gains for the baby and the mother, and possibly reduces the chance of the infant dying from SIDS, since breastfeeding while bed-sharing practically mandates the use of the safe supine infant sleep position, at least among Latino breastfeeding/bed-sharing mothers.

Increased protection from SIDS through breastfeeding is not universally established but at least half the studies show it as being protective, and since no two studies use the same definition of breastfeeding, research in this area remains difficult to compare. In the United States a major multicenter epidemiologic study found that ‘not breast feeding’ was a risk factor for SIDS for both black and white American populations. Only one epidemiologic study, however, has looked at whether dose-specific response effects exist and whether this is stable across races and socioeconomic groups in relationship to SIDS. The data support the possibility that increased breastfeeding leads to increased protection from SIDS. Fradick-Vick et al. found that for both black and white Americans the risk of SIDS decreased for every month of breastfeeding. Conversely, for white mothers the risk of SIDS increased by 1.19 for every month of not breastfeeding, and 2.0 for every month of non-exclusive breastfeeding. For black mothers, the risk of SIDS also increased by 1.19 for every month of not breastfeeding, but 2.3 for every month of not exclusively breastfeeding.

**Sleep architecture, mother and infant arousal patterns in the bed-sharing and solitary sleep environments**

The differences in feeding patterns between infants in the solitary and bed-sharing environment cannot properly be understood outside of the overall context within which they find expression. Increased breastfeeding is but one factor in a cascade of inter-dependent changes involving arousals, sleep stage duration and progression, mother–baby body orientation and sleep position in bed, breathing and infant crying. These are all mutually regulating factors as mothers and infants sleep alongside each other in bed (Figs 16.3 and 16.4). For example, we found that in general, small EEG-defined transient infant arousals are facilitated in the bed-sharing environment, albeit selectively, and that even when routinely bed-sharing infants slept alone they continued to exhibit more transient arousals than did routinely solitary sleeping infants, sleeping alone (Tables 16.1 and 16.2). Furthermore, bed-sharing significantly shortened the amount of time per bout infants remained in deeper stages of sleep (Stage 3–4) compared with when they slept alone, with increases in the amount of time spent in stages 1 and 2, and more total time asleep. Together, these findings justify our speculation that the increased number of arousals in the bed-sharing environment, coupled with the reduced amount of time (per bout) spent in deep stage 3–4 sleep where
arousal thresholds for infants are highest, may reduce an infant's chances of dying from SIDS, especially among infants born with arousal deficiencies.

We also documented an acute sensitivity on the part of the routine bed-sharing mothers to infant's presence in the bed. That is, compared to the number of temporally overlapping arousals (in which the infant aroused first), routinely bed-sharing mothers exhibited significantly more arousals than did routine solitary sleeping mothers while bed-sharing with their infants. This finding argues against the possibility that bed-sharing mothers habituate to the presence of their babies and, thus, may pose a danger to them while asleep.9,34

While routinely bed-sharing mothers aroused and fed their infants more frequently while sleeping next to them, on average they received as much sleep as solitary breastfeeding mothers, and infants slept significantly longer than they did when they slept alone.9,34 Moreover, 84% of the routinely bed-sharing mothers evaluated their sleep following their bed-sharing night in the laboratory as being either 'good' or 'enough', while only 64% of routinely solitary sleeping mothers evaluated their sleep as being either good or enough following their routine solitary sleep night in the laboratory.34 (Table 16.2).

In two earlier studies we found that bed-sharing mother-infant pairs exhibited a trend toward greater simultaneous overlap in all sleep stages (i.e., stages 1–2, 3–4, and REM). This synchronization of sleep states was not explained by chance and is not found when the sleep/wake activity of infants is compared with randomly selected mothers with whom they did not co-sleep.30,40

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**Conclusions**

**FROM DEBATE TO DISCOURSE**

The argument over bed-sharing, i.e. to bed-share or not to bed-share, should be transformed from debate to discourse. Discussions about infant and childhood sleeping arrangements by pediatricians, pediatric sleep researchers, SIDS researchers, health and government authorities should move away from the assumption that a singular recommendation is appropriate, and away from the mistaken belief that bed-sharing (as one type of co-sleeping) is a uniform practice with any predictable, singular outcome. To be specific, this new discourse on bed-sharing needs to reject the traditional epidemiologic categorization of 'bed-sharing' as a discrete unitary variable, which carries a fixed, relative risk across all circumstances, leading invariably either to good or bad outcomes.

**THE CONTINUUM OF PARENT-INFANT SLEEP PROXIMITY**

This new discourse needs also to reject the assumption that any particular sleeping arrangement is necessarily practiced in an all-or-nothing manner, all night...
and every night, in the same way, throughout each stage of infancy or childhood development across the first 5 or so years of life. Ample evidence exists to now suggest that even where parents consider themselves either co-sleepers or solitary sleepers there are often a variety of sleeping arrangements which can vary from night to night, and/or from one part of a night to another.41-44 Infants do not sleep in the same place, all night, every night. In conjunction with the infant/child’s changing social, emotional, and cognitive needs and sleep behavior, and changing parental attitude, experiences, and understandings of their own and their child’s needs, sleeping arrangements more or less fluctuate (in many families) around what is perhaps best conceptualized as a continuum of parent-infant sleep proximity. This continuum can be conceptualized as ranging from the most intimate, high contact forms of sleeping arrangement i.e., parent-infant co-sleeping occurring on the same surface, side-by-side, often with baby-controlled breastfeeding, to infants sleeping physically distant from the caregivers, routinely in a crib in his or her own room, all night, every night. Health educational programs and written materials aimed at teaching parents how to arrange a safe sleep environment should appreciate and accommodate the potential fluidity of sleeping arrangements in any given family. Furthermore, they should consider the possibility that many, perhaps most, infants are likely to experience diverse sleep locations and arrangements, and, therefore encounter a rich variety of sensory and physical circumstances hypothesized and imaged by this model. Sometimes, parents never make a firm decision about where their baby will sleep;45 however they should be alert to, and made knowledgeable of, the special precautions that they need to take as different points on this continuum of parent-infant sleep proximity is encountered.

IDENTIFIABLE BED-SHARING AND COSLEEPING ‘PROBLEMS’

It is important that health and governmental authorities understand that there are different ways to approach and solve the ‘problems’ or hazards associated with any given sleep environment, and that how, or if, certain hazards are thought worth solving, will depend on one’s own values and preferences, as well as on one’s own early childhood sleeping experiences, which may differ from the experiences of others. It is not so much tolerance, but respect, that is called for in reaching consensus on relevant areas of this controversy. This specifically involves respect for scientific and parental positions which differ from, and legitimately challenge, the more traditional culturally-based views which disparage and recommend against every and all kinds of cosleeping or bed-sharing. This means that the preparation of written materials on safe infant sleep environments needs to include the participation of diverse health professionals and scientists whose training and experiences reflect the needs of the diverse communities for whom recommendations are intended. Those families who elect to bed-share deserve every bit as much support, encouragement and education as those parents who choose to place their infants to sleep in cribs.

‘FACTORS’ – NOT PRACTICE

By distinguishing between cosleeping in a generic sense and particular forms of cosleeping such as sofa cosleeping and safe and unsafe bed-sharing, health professionals can preserve and acknowledge the importance of parents and infants sleeping within arms reach (cosleeping), perhaps on different but sometimes on the same surfaces, while simultaneously recognizing that under specific conditions, especially among the urban underclass where most of the bed-sharing deaths occur, specific types of cosleeping can be dangerous; just as placing infants in specific types of cribs under specific types of conditions, in certain kinds of ways (prone, for example) is also dangerous. Hence, there are dangerous conditions – not necessarily dangerous parental bodies.

That catastrophic accidents can and do occur in the bed-sharing or cosleeping environment is not an affirmation of the legitimacy of anti-bed-sharing rhetoric, or evidence that such catastrophes must occur, or likely will occur, for any given mother-infant pair. The existence of catastrophic accidents cannot be used as the argument against all bed-sharing, any more than catastrophic accidents associated with crib sleeping should constitute an argument against all crib sleeping. Risks are dependent on who is involved and how, and why, the practice takes place. One thing is certain, it is only when health professionals and governmental regulatory agencies agree that cosleeping can be a good choice for parents that there will ever be attention paid to designing safe child-adult beds with associated supportive bedding structures and furniture.

The first step in reconciling social and scientific biases is to acknowledge that they exist. We have argued that scientific and social bias have dominated and severely limited the discourse in regards to the question: where should infants and children sleep? It is hoped that this chapter will facilitate a major shift away from traditional thinking about legitimate sleeping arrangements among infants and children, particularly concerning the larger issue of what constitutes healthy, safe and satisfying infant-child sleep. This shift will include the idea that cosleeping can be one of several ‘healthy’ choices, especially where parents are provided supportive education as to how to make and practice that choice safely. Educating parents about bed-sharing and crib risk ‘factors’, rather than condemning either practice, is in our opinion the best public health strategy. Surely, health professionals have a responsibility to provide the type of educational context within which a comfortable exchange of information between interested parents and health professionals can occur. Indeed, a century of psycho-biological studies documenting developmental benefits associated with maternal-infant contact among primates indicate that there is no scientific justification for beginning co-sleeping or SIDS studies with the a priori concept that increased sleep contact between the human mother and infant (when in a bed) is inherently dangerous, and likely leads to social, emotional, or sleep-related disadvantages, disorders or death.

While some may choose to solve the hazards associated with crib sleeping, others, including parents, will continue to choose to solve the problems associated with bed-sharing. It is time to respect with equal enthusiasm and resources
the alternative values that underlie the choice to cosleep—a time-tested sleeping arrangement that refuses to go away, and for good reason.43,46

References