Paraplegia

# Sexual and Marital Adjustment of World War II Spinal Cord Injured Veterans

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## Summary

A survey of the marital and sexual adjustment of World War II spinal cord injured veterans was undertaken at the Spinal Cord Injury Outpatient Clinic at the VA Medical Center, Sepulveda, California. A questionnaire containing 42 questions was sent to 40 of these veterans who had survived more than 40 years after their injuries. Fifteen of the questionnaires were completed, with the results categorised in three areas: Demographic information, medical information, and marital and sexual information. A third of the subjects were quadriplegics, 66.7% were paraplegics. Seventy eight per cent of the couples were of the same age group. Eighty per cent were married after their injury; 73.4% were married to their original spouse. Two thirds of the SCI veterans fathered children. Of the fathers, 70% fathered children after their injury. Seventy five per cent of the veterans and 50% of their wives had education beyond high school. Forty per cent of the subjects used foley catheters, and 53.3% reported symptoms of spasticity. Eighty per cent used alcohol socially and 20% used tobacco. 46.7% rated sex as unimportant in their lives, yet many reported that their sexual lives were unsatisfactory. Sex was not openly discussed with their spouses although 55% reported excellent communication with their wives and 70% reported spending their leisure time with their wives. A significant response was the 86.6% of the subjects recommended marriage as a way of life for persons having a new spinal cord injury.

Key words: Spinal cord injured; World War II spinal cord injury veterans; Sexual adjustment; Marital adjustment.

Since World War II, with its resulting casualties, the number of spinal cord injured (SCI) patients in the USA has grown as treatment methods improved. One report (Gregory, 1974) states that by the end of World War II there were about 2000 such patients in Military and Veterans Administration Hospitals. Until World War II, few SCI patients survived long after their injury. In comparison, 400 Americans were removed from the battlefields of World War I with spinal cord injuries. Ninety per cent of these individuals were dead within 1 year after their injury. Gregory (1974) reports that many spinal cord injury patients from World War II

were saved because of improved surgical techniques, treatment of shock, and the use of antibiotics to fight infection.

Major statistical surveys of the marital life of the World War II veterans do not exist in relation to physical, cultural, sexual, and psychosocial adjustment, and post-institutional care variables. In general, previous attempts to identify predictors of post-injury changes in marital status have been unsuccessful. Most papers have been published since 1960, by Commar (1962), Guttmann (1964), DeVoe (1974), Ghatit (1976), and DeVivo and Gale (1984). There is general agreement that stigmatisation exists for the spinal cord injured disabled, due to their complications, social, sexual, and personal.

'It is the aim of everyone concerned with the social resettlement of spinal cord sufferers to return as many of them as possible to their homes to live a near-normal life within the community.' (Guttmann, 1964). Naturally, one would expect that a disability of the magnitude of paraplegia and quadriplegia would create in its wake difficult problems in the domestic adjustments of these disabled people, particularly in regard to marital adjustment.

At the time of injury, rehabilitation efforts paid little or no attention to the sexuality of these spinal cord injury patients. However, World War II SCI veterans were seen as heroes of a just war and they had the support of our society. In addition, many nurses and other medical staff dedicated their professional lives to these deserving spinal cord injured veterans and provided comprehensive care, mutual concern, and respect. Intimate relationships also developed in many cases, resulting in marriages between SCI veterans and their nurses or other medical staff. In addition, some SCI veterans married women who were not medical care staff.

### Study methods

The present paper investigates the adjustment of World War II spinal cord injury veterans in regard to their marital and sexual life. There are about 40 World War II spinal cord injured veterans who live in the San Fernando Valley area of Los Angeles, California. They are still alive and functioning more than 40 years after their injury. These 40 patients, with World War II military service dates, were selected from the population of outpatients enrolled in the SCI Clinic at the VA Medical Center, Sepulveda, California. They were selected for study due to having been affected by spinal cord injuries for many years.

A 47-item questionnaire was mailed to each of the 40 SCI veterans. To enhance candour, no subject was asked to divulge their identity and the questionnaires were returned anonymously. Of the 40 initial subjects, 15 completed and returned the questionnaires (37.5%).

In addition, 8 patients returned their questionnaires uncompleted with the comment that the questions were 'too personal'. This reluctance to directly address sexual and marital issues is also demonstrated in the responses to the questions on the survey form which indicated that many of the couples avoided this issue. The low response rate is likely due to this factor.

The questionnaires were designed to elicit information about the subjects' perception of their injury, marital status, sexual functioning, and other aspects of their lives described in this article.

#### **Demographic information**

Table I	Demographic	information

1.	Age		Veteran				Wife	
	X =	65.13	Mdn = 64.5	R =	60–77 X	x = 61.8	Mdn = 61	R = 39-77
2.	Veterans married				Pre-injury	Pos	t-injury	Present
					3		12	13
	Marriage to curren	it spous	e is:	first	second	third	Widowed	Divorced
	-	-		11	1	1	1	1
	Length of marriag	e: X =	34.2 years, R	= 5-43	3 years			
3.	Marital status (wife	e)						
	Marriage to curren	it spous	e is: first—11,	secon	d—2			
4.	Children							
	Veterans fathering	childre	n:				Pre-injury 1	Post-injury
	(15 natural child	lren)			3	7		
	Adopted children:	-			en			
	Step children: 1 ve		ad 2 stepchild	ren				
5.	Education, highest	level						
			Grade scho	ol	High school	C	ollege	Postgraduate
	Veterans		2		6		3	4
	Wives				6		4	3
6.	Employment	Ve	terans (includ	e part-t	time)	Retire	d	
		2	2 (R = 0 - 36 y)	ears)		13 (1	R = 0-40 yea	rs)
		Wi	ves		Retired		Never en	nployed
		3	3 (R = 2 - 38 y)	ears)	6 (R = 8)	-33 years	) 4	

The demographic data (Table I) reveals that 78% of the couples were of the same age. Twenty per cent of the SCI veterans were married prior to their injury, 80% married after the injury. At the time of the study, a high percentage (87%) were married, most to their original wife. A small percentage (13%) were divorced or widowed.

Most of the wives had married their current spouse as their first marriage. The remainder (27%) had married the veterans as their second marriage. Compared to the general population, with a divorce rate of over 50%, we see a highly stable marriage pattern in this group.

Sixty seven per cent of the SCI veterans had fathered children, 30% before their injury and 70% after injury, producing a total of 15 natural children. In addition, some of these veterans adopted children or acquired stepchildren. The fertility is exceptionally high for this patient group, particularly when compared with the results published by Commar (1986), which showed only a 6.5% post-injury fertility rate.

About half (47%) of these subjects had completed college, with several (27%) continuing on with postgraduate education. The wives of this group are closely matched in education, with 54% completing college and 23% going on to postgraduate studies.

When compared with the general population of this age group, with a 29% high school completion rate, we see a generally well-educated group.

Most (87%) of the SCI veterans were retired at the time of the study. The rest were employed part-time. Although all of these veterans were rated 100% disabled by the Veterans Administration, and received substantial compensation, they had all been productively employed during their lives. Consistent with this age group,

a lower percentage of wives than husbands had been employed (69%). However, it was a higher percentage than the general population for this age group.

## Medical information

1.	Veterans' date of	injury		1942-1945	(46.7%	injured	in 1945)				
2.	Level of injury			Qu			legia	Pa	Paraplegia		
						5 (339	%)	10	(67%)		
3.	Urological condition	io <b>n</b>	In	Indwelling catheter Ex			al catheter	No device used			
			6 (40%)		8	(53%)	1 (7%)				
4.	Penile prosthesis		Desired	l now	At time of injury			,			
				Yes	No	Yes	No	No	answer		
				0	15	4	9		2		
5.	Sphincterotomy d	one		Yes			No	(Two	(Two had more		
			6 (40%	b)		9 (60%)		than one)			
6.	Spasticity			Yes			No				
				8 (53%	·		(47%)				
	On a rating scale	e of 1 to 7	, those repo					3.04, R =	= 1-5.5		
7.	Medications			Urinary			Anti-				
	taken	None	-	suppressan	-	asm hypertensives		Antacid	Vitamins		
		6	5	5	4		1	1	4		
8.	Alcohol use					les			No		
				Occasiona		•	cial and bin	ige			
				8	3		1		3		
9.	9. Tobacco use (smoking)			Yes					No		
				3 (20%) 1							
					$\mathbf{R} = 1$	/4 to 3 p	acks/day				

Table II	Medical information
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None of the wives were SCI patients (Table II). All of the respondents were asked to list the specific site of their injury. However the self-reports were not reliable as the patients responding indicated their level of injury as 'quadriplegia' or 'paraplegia'. Thus, the data returned on the questionnaires does not allow an objective classification of the injury sites. No data was given about the length of time indwelling catheters had been used or about the incidence of urinary tract infections or renal stones. Part of the reason may be that the question about infections used the term 'UTI' instead of spelling out completely what was meant. This was based on the assumption that the patients would know this term, which may not have been an accurate assessment.

No penile prosthetic devices were reported used, and there was no reported desire to obtain such a device. Forty per cent reported they would have wanted such a device at the time of their injury, but 60% indicated they would have never had any interest in such a device.

The patients who had received TUR external sphincterotomy had the most complaints about their sexual lives.

It was also noted that the more educated group comprised the non-smokers, but this group also used alcohol more frequently.

#### Social and marital information

The majority of the SCI veterans do not engage in sexual intercourse currently (Table III). Comparing the immediate post-injury sexual activity with the current sexual activity, we see a decline, probably due to the normal aging process.

There was no universal or dominant sexual position used by these couples. Most of the SCI veterans (60%) stated that their sexual lives had been different from the general population.

In rating the importance of sex in a marital relationship, there was a polarised (dichotomous) response, with 47% rating sex as unimportant, and 27% rating it as very important.

These patients also believe that their sexuality is not the same as 'normal' people who have no spinal cord injury. The responses to question 6 indicate that they feel 'different', without any hard data on which to base their self-perceptions.

Comparing the responses to the questions 7, 8 and 9, we see that the majority feel that sexuality is not important in marriage, but they see their sexuality as unsatisfactory and do not discuss it openly with their spouses. The clinical experience in providing sex therapy by one of the authors indicates that difficulty in discussing sexual issues is common for this age group.

With regard to the expenditure of leisure time with wives, 70% answered positively to joint time expenditures. Since the majority of these veterans are retired, it is significant to note that these couples spend a lot of their time together.

One question not displayed in a table due to varied and inconclusive responses concerned the expression of feelings other than sexual. The most dominant response (54%) indicated that four avenues of expression (tenderness, mutual concern, love, affection) were used primarily by this group. It was unfortunate the question was worded in such a way as to confuse the respondents.

When asked to list the things that they argue about, responses were elicited from 6 of the respondents (54%). The responses included arguing about children and drugs, money, housework, 'minor things', 'about ourselves', and about 'cultural, political, religious, etc.'

Fifty four per cent reported an excellent level of communication with their wives, although there was some doubt when compared with the responses to question 7 related to discussion of sexual issues where 47% did not discuss the subject at all. Thus, there was apparently an attempt to focus discussion on 'safe' issues.

The majority of patients indicated that they believed that both SCI patients and their spouses should receive sex education following injury.

Eighty seven per cent recommended marriage as a way of life for other spinal cord injured patients, while only 13% did not recommend marriage. This 87% recommending marriage is the same as the number in the sample who were married, suggesting an overall level of satisfaction with the marital situation.

#### Summary and conclusions

The information gained in this study indicates that long term marital and sexual relationships are a definite option for those incurring a spinal cord injury. Most previous studies have focused on the high divorce rate for this group. There has

1.	Sexual experience						
	C	Pre-i	njury			Post-injury	
	(a) Intercourse:		= 10 (67%)	$\mathbf{R} = 0 - 3$	3 wk	Yes = 7 (42)	7%)
			= 5 (33%)			R = 0 - 0.3	
						No = 5 (33)	<b>%</b> )
						No answer	
	(b) Oral sex	Yes =	= 2 (13%) (ra)	arely)		Yes = 2(12)	
			= 9 (60%)			$R = 0-5 \times$	
			nswer—4 (27	7%)		No = 7 (47)	
			,	,		No answer-	
	(c) Manual stimulation:	Yes =	= 0			Yes = 4 (2)	
	(.,		= 12 (80%)			$R = 0-7 \times$	
			nswer—3			No = 7 (47)	
						No answer-	
	(d) Masturbation:	Yes	= 8 (53%)			Yes = 2(12)	
			$0-5 \times week$				,
			= 6 (40%)			No = 12 (8)	<b>30%</b> )
		No a	nswer—1			No answer-	
	(e) Erection:	Yes	= 15 (100%)			Yes = 8(52)	3%)
						Reflex $= 4$	
						Psychogeni	ic = 1
						Both = 3	
						No = 5 (33)	8%)
						No answer-	—2
2.	Current sexual activity						
	(a) Intercourse attempted				Yes 5	(33%)	No
				Su	ccessful	Unsuccessful	
					3	2	10
	(b) Erection		s = 3 (20%)	<b>.</b>	1	No = 12	
		sychogenic	1	Both		(80%)	
	l (a) Eisendation	1	V	1		0 ((70() N	2
	(c) Ejaculation			2 (13%)			answer—3
2	(d) Orgasm		Yes =	1 (7%)	NO = 1	1 (73%) No	answer—3
5.	Sexual positions used Male Female A	lternate	Side/side	Deen	0.1	Madelate	Ŋ
	above above	liternate	Side/side	Rear	Other	Multiple	No
	2 $2$	1	2	0	1	2	answer
4.		1	2	0	1	2	5
4.		Afterna	on and Evon	:	Manaina	and Evening	NT
	Morning Evening 3 4	Alterno	on and Even	ing	Morning	and Evening	No answer
5	Changes in frequency of sexu	al activity r	I alated to ane			1	6
٦.	Increase Decrease	Same	Stopped	i Sa	me and	Decreased	No
	mercase Decrease	Same	otopped				
	0 4	2	4	51	opped 1	and stopped 3	answer 1
6	Self-perception/comparison of	-	nity with non.	SCI	1	5	1
0.		the same	ony with hon		Don't kn	w	No answer
	1	Q			2011 C KI	Jw	l l
7	Importance of sexuality in ma	minae			т		1
	Minimal	in hige	Ver	y impor	tant		
	(1) (2) (3)	(4)	(5)	(6)		$\mathbf{X} = 3.36$	
	7 0 1	1	1	0		R = 1-7	
8.		•	•	2	т		
5.	Very unsatisfactory		Ver	y satisfa	ctory		
	$\begin{array}{c} (1) \\ (2) \\ (3) \end{array}$	(4)	(5)	(6)		$X = 3 \cdot 21$	
	1 6 0	5	1	0		R = 1-7	
9.	Discussion of sex with wife	-	-	v	•	/	
-	Not at all			C	Openly		
	(1) (2) (3)	(4)	(5)	(6)		X = 3.4	
	7 2 0	0 0	1	0		R = 1 - 7	
	-		-	-	-	/	

## Table III Sexual and marital information

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#### TABLE III—continued

10.	Leisure	time sp	ent								
	Separately						-	Fogether	•		
	(1)	(2)	(3)	(4)	(	(5)	(6)	(7)	X = 4	8	
	2	0	1	1		3	2	4	R = 1 -	7	
		No wit	fe—2								
11.	Arguing	g with u	vife								
	Always		-				]	Never			
	(1)	(2)	(3)	(4) 3	(	(5)	(6)	(7)	X = 5	61	
	) O	0	0	3		2	5	3	R = 4-	7	
		No wit	fe—2								
12.	Commu	inication	n with wife								
	Poor					Excellent					
	(1)	(2)	(3)	(4)	(	(5)	(6)	(7)	X = 5	57	
	0	0	2	4		1	1	7	R = 3-	.7	
	No wif	e—1, F	Previous spous	<u>—1</u>							
13.	Sex edı	ucation	wanted								
		Patien	t alone		Wife alone				Both		
	Yes	No	No answer		Yes	No	No ansv	ver	Yes	No	No answer
	2	3	10		2	4	9		8	5	2
	13%	20%	67%		13%	27%	60%		54%	33%	13%
14.	Would	recomm	end marriage to	new S	SCI pai	tient					
			Yes = 13 (8	87%)	-				No = (1)	3%)	

been little research on the adjustments required to maintain a long term relationship in conjunction with serious chronic disability. The Veterans Administration is in an excellent position to study a large group of these individuals, who have adjusted to spinal cord injuries over a long period of time, as they have a nationwide network of services for SCI veterans.

Much more research is indicated in this area in order to provide realistic counselling for those recently injured. As reported by Young (1984), patients with a variety of disabilities and illnesses stressed the need for accurate information about their sexuality, and sexual potential, soon after their injury or illness. The sexual issue is often difficult to approach by both patients and providers due to lack of training in approaching the subject supportively and realistically. Young's findings are corroborated by responses to the questions asked in this study and by spontaneous comments as well.

One artifact of this study was the opening up of several issues which had not been previously addressed. The study stimulated many spontaneous questions about sexual and marital issues from the veterans served by the SCI Clinic. In addition, spontaneous conversations between the patients about sexual issues were also observed. The net effect was that subjects which had not been discussed openly suddenly became less 'taboo' and were addressed openly by patients who had not previously voiced their concerns or questions in these areas.

The study group was quite unique in that these patients have endured 40+ years of disability while assuming the 'normal' roles of husband and father. There is no other disability or disease entity in which the long term effects can be measured after 40 years. Thus, no comparisons were attempted between this group of patients and patients having other disabilities.

#### Spontaneous comments

Some of the respondents gave written comments in response to an invitation to do so on an open ended question. Some of the comments are the following. They are provided for general interest, and because the authors believe they are probably representative of how many SCI patients feel.

From a veteran's wife: 'It is possible for social, religious, or economic reasons to maintain the outward appearance of a stable marriage. However, within the marriage (behind closed doors) there is much repressed anguish. I think there should be a strong and very sensitive programme of sex education for SCI and their present or potential wives, both separately and together. They should know what the odds are, especially those who have not yet committed themselves. I strongly recommend at least a year of "trial marriage" outside the hospital before making a lifetime statement.'

From a SCI veteran: 'If you get married, be sure you like the woman not merely "be in love". Mutual respect and loving one another will smooth out a lot of bumps and don't be too quick in a flash of anger to split up.'

Suggestion for the newly injured SCI patient: 'Be sure you understand each other's wants and needs and be willing to go more than half way, but don't marry to get someone to take care of you. Above all, don't feel sorry for yourself. Keep your body and mind healthy by exercise and hobbies, or work if you can.'

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