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COLUMBIA UNIVERSITY Department of Urology

BACKGROUND

Female sexual dysfunction (FSD) after pelvic fracture (PF) has garnered little attention in the urology literature:

- The incidence of PF is 8-15%¹
- PF and associated non-bony pelvic trauma have high mortality (6-35%)²
- Incidence of genitourinary injury (GUI) associated with PF is 3.62% in female patients³
 - Minority Female PF patients require Urology involvement during acute hospitalization

We sought to review and summarize the current evidence as to female PF related sexual function.

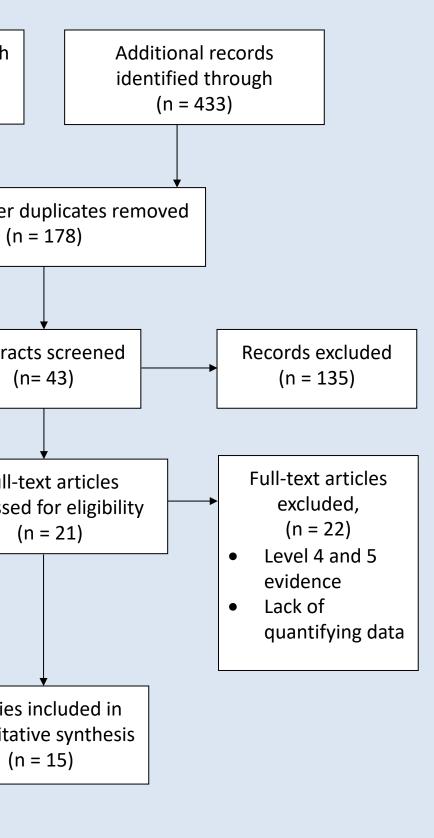
METHODS

Systematic Literature review - PRISMA		Figure 1: PRIMSA Diagram for the Systematic Review
Guidelines		
 Search terms: "female sexual dysfunction AND pelvic fracture" "sexual dysfunction AND pelvic fracture "female pelvic fracture AND 	Screening Identification	Records identified through PubMed (n = 258) Records after
sexual dysfunction." Exclusion Criteria 1. Level 4 and 5 evidence 2. Lack of quantifying data	Eligibility	Full assess
	Included	Studie quantit

Female Sexual Dysfunction After Pelvic Fracture is Common Alice Walton¹, Omer Raheem¹, Steven Brandes², Cooper R. Benson¹ ¹Department of Urology, Tulane University School of Medicine , New Orleans, LA ²Department of Urology, Columbia University, New York, NY

RESULTS										
Table 1: Studies included in Systematic Review				RESULTS						
	-	Mean age	Mean Follow up Post			Total # of patients – 841 of which	2: Sexual Health Domains Assessed	l and Reported Out		
	Number of	(Range)	Injury			38 were not sexually active	Domain	Mean (Range		
Article	patients	*Median age	*Median	Questionnaire Used	•	Mean Age – 32 years (4-92)		51% (38%-65%)		
	11 Sexually					Wicall Age JZ years (+ JZ)		X 1		
Kiely N and Williams N, Injury 1996	Active (15 total)		52 months*	Non-validated questionnaire			Dyspareunia	45% (3%-64%)		
Baessler K et al, BJOG 2004	24	24 years (11-92)*	29 months	Bristol Female LUT Symptoms Questionnaire; Golombok Rust Inventory of Sexual Satisfaction	•	 Resolution of FSD (30.4%) was only reported in Johnsen et al, 2019 	Orgasmic Dysfunction	36% (7%-67%)		
Daessier K et al, DJOO 2004	13 Sexually Active (25	24 years (11-92)	29 months	JEXUALJALISTACLION			Genitourinary Pain	35% (17%-72%)		
Black PC et al, J Urol 2005	total)	22 years (4-64)	7.3 years	FSFI			Decreased Interest in	20% (4%-45%)		
Wright II at al. I Ural 2006	102			Functional Capacity Index			Intercourse			
Wright JL et al, J Urol 2006	103		14)	and SF -36			Decreased	40% (4—45%)		
Cannada LK and Barr J, Clin Orthop Relat Res 2010	71	27.8 years (17-44)	6 years (1-9)	Non validated questionnaire and SF-12			Intercourse Satisfaction			
Dzupa V et al, Acta Chir Orthop Traumatol Cech 2012	33	32years (17-55)		ICIQ,UIQ, UDI, PISQ12			Pelvic Floor Dysfunction	57% (47%-67%)		
Harvey-Kelly, J Orthop			36 months (12-							
Trauma, 2014	32	44years	96)	FSFI		CONCL	USIONS			
Vallier HA et al, J Orthop Trauma 2012	86	33 years (16-53)	46 months(12- 129)	Non-validated questionnaire	•	FSD after traumatic PF is not uncommon, o	occurs mostly in young wo	men, can be r		
Odutola et al Clin Orthop Relat Res 2012	40	38 years (18-76)	60 months (12- 144)	Non-validated questionnaire	•	and have significant impact on Quality of Life FSD after PF is underreported in the urolog		er-represented		
Copeland CE et al J Orthop Trauma, 1997	102 Sexually active (123 Total)	27.3 years (16-44)	4.1 years (1.5- 7.1)	questionnaire/interview		 current data Minority of Female PF require acute Urology involvement and thus FSD is le likely to be assessed after PF recovery Prospective studies are needed to better understand prevalence of FSD in trauma survivors Improved understanding of etiology of FSD in context of injury patterns, type PF treatments Identify risks factors of FSD and effective treatment options 				
McCarthy ML et al, J Trauma 1995	123	27.2 years		Non-validated questionnaire/interview and SF-36	•					
Khunda A et al, Intern Urogyn J and Pelv Floor Dys 2009, Suppl 20:3	23	29 years (17-39)	11.75 years	Non-validated questionnaire						
Duramaz et al, Eur J Trauma Emerg Surg	43		27 months	FSFI		REFER	ENCES			
Johnsen N et al, SMSNA 2019	98	42.2 years	45 months	Non-validated questionnaire	1	Li P, Zhou D, Fu B, Song W, Dong J. Management and outcome of pelvic fracture associated	d with vaginal injuries: a retrospective studyof 25 case	es. BMC Musculoskelet Disor		
Bellabarba C et al, J Orthop Trauma 2003	z	36 years (23-64)	20 months	Non-validated questionnaire	2	22;20(1):466. Brown JV, Yuan S. Traumatic Injuries of the Pelvis. Emerg Med Clin North Am. 2020 Feb;38 Bjurlin MA, Fantus RJ, Mellett MM, Goble SM. Genitourinary injuries in pelvic fracture mor		Bank. J Trauma. 2009 Nov;6		

or inclusion and exclusion of studies





Abstract MP29-08