

1                   **Table S1** General information of the study subjects [n=1,813, n(%)]

Item	Category	Nurses, n( % )
Gender	Male	111 (6.1)
	Female	1702 (93.9)
Age	<30years	627 (34.6)
	30~39years	838 (46.2)
	40~49years	286 (15.8)
	≥50 years	62 (3.4)
Working years	<6years	399 (22.0)
	7~10years	600 (33.1)
	11~15years	369 (20.4)
	≥16 years	445 (24.5)
Education level	Junior college	226 (12.5)
	College and above	1587 (87.5)
Hospital type	General hospital	1491 (82.2)
	Specialized hospital	322 (17.8)
Work department	Emergency	363 (20.0)
	Outpatient	104 (5.7)
	Surgery	349 (19.2)
	Internal medicine	458 (25.3)
	Gynecology           and   Obstetrics	67 (3.7)

Item	Category	Nurses, n(%)
	Pediatrics	76 (4.2)
	ICU	59 (3.3)
	Psychiatry	275 (15.2)
	Others	62 (3.4)
Employment form	Staffed employees	777 (42.8)
	Contract employees	1022 (56.4)
	Temporary workers	14 (0.8)
Position	Nurse	1662 (91.7)
	Head nurse and above	151 (8.3)
Title	Nurse	196 (10.8)
	Nurse practitioner	616 (34.0)
	Nurse supervisor	811 (44.7)
	Deputy chief nursing officer and above	190 (10.5)
Night shifts per month	No	226 (12.4)
	1~4 times	908 (50.1)
	5~9 times	505 (27.9)
	≥10 times	174 (9.6)
Patients per shift	≤ 8 persons	414 (22.8)
	9~11 persons	485 (26.8)
	≥12 persons	914 (50.4)

Item	Category	Nurses, n(%)
Marital status	Married	1306 (72.0)
	Unmarried	470 (25.9)
	Divorcee	36 (2.0)
	Widowed	1 (0.1)
Only child	Yes	792 (43.7)
	No	1021 (56.3)

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Table S2 PVV reporting process [n=292, n(%)]

Item	Category	Nurses, n( % )
Reporting Methods	Oral Report	256 (87.7)
	Electronic Reporting System	20 (6.8)
	Written Report	16 (5.5)
Reporting Objects	Head Nurse	235 (80.5)
	Nursing Department	21 (7.2)
	Security Guard	17 (5.8)
	Coordination Unit	17 (5.8)
	Police Officer	2 (0.7)

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**Table S3** Reasons for nurses not reporting PVV [n=1,521, n(%)]

Item	Nurses, n( %)
Reporting was unable to solve the problem	800 (52.6)
Unclear how to report	730 (48.0)
Hospitals did not explicitly require reporting	728 (47.9)
Not clear what should be reported	720 (47.3)
Lack of attention in hospital attitudes	514 (33.8)
Too busy to report	486 (32.0)
Low impact of violence	471 (31.0)
Lack of reporting atmosphere	445 (29.3)
Fear of repercussions if reported	397 (26.1)
Fear of reprisals if reported	290 (19.1)
Tedious reporting procedure	198 (13.0)
The abuser didn't mean it	184 (12.1)
Fear of ridicule if reported	173 (11.4)
Others	98 (6.4)

**Table S4** Reporting rates of PVV among nurses with different personality traits

[n=1,813, n(%)]

Item	Nurses, n(%)	Whether or not to report a PVV exposure		x <sup>2</sup>	P
		Yes (n=292)	No (n=1521)		
Neuroticism	218 (12.0)	16 (7.3)	202 (92.7)	26.158	<0.001
Conscientiousness	690 (38.1)	117 (17.0)	573 (83.0)		
Agreeableness	490 (27.0)	105 (21.4)	385 (78.6)		
Openness	369 (20.4)	49 (13.3)	320 (86.7)		
Extraversion	46 (2.5)	5 (10.9)	41 (89.1)		

**Table S5** Reporting rates of PVV among nurses with different levels of work stress

[n=1,813, n(%)]

Item	Category	Nurses, n( %)	Whether or not to report a PVV exposure		Z	P
			Yes (n=292)	No (n=1521)		
Level of work stress	Mildly	62 (3.4)	14 (22.6)	48 (77.4)	-6.275	<0.001
	Moderately	1144 (63.1)	227 (19.8)	917 (80.2)		
	Severe	607 (33.5)	51 (8.4)	556 (91.6)		

**Table S6** Independent variable assignment methods

<b>independent variable</b>	<b>assignment method</b>
Gender	Male = 1, Female = 0
Hospital type	General hospital=1, Specialized hospitals = 2
Work department	With "Internal Medicine" for reference, set up "Emergency", "Outpatient", "Surgery", "Gynecology and Obstetrics", "Pediatrics", "ICU", "Psychiatry" "Others" 8 dummy variables
Night shifts per month	No = 1, 1~4 times = 2, 5~9 times = 3, $\geq 10$ times = 4
Personality trait	With "Neuroticism" for reference, set up "Rigor", "Agreeableness", "Openness", "Extraversion" 4 dummy variables
Levels of work stress	Mildly= 1, Moderate = 2, Severe = 3
Heard of PVV before	Yes = 1, No = 0
PVV not worth the fuss	Yes = 1, No = 0
The state or attitude of the abuser affects reporting	Yes = 1, No = 0
Severity of violence affects reporting	Yes = 1, No = 0
Safety of the work environment affects reporting	Yes = 1, No = 0
Media coverage of violence affects reporting	Yes = 1, No = 0
Training on PVV reporting can facilitate reporting	Yes = 1, No = 0
Establishment of a department to deal with PVV could facilitate reporting	Yes = 1, No = 0
Introduction of a non-punitive reporting system could facilitate reporting	Yes = 1, No = 0
Strengthening hospital security could facilitate reporting	Yes = 1, No = 0
Proper media orientation can facilitate reporting	Yes = 1, No = 0
Encourage reporting	Yes = 1, No = 0
Reporting institution	Yes = 1, No = 0
Reporting system	Yes = 1, No = 0
Specialized department	Yes = 1, No = 0
Reporting training	Yes = 1, No = 0
Hospital attitude	With "Chastise employees" for reference, set up "Defending the interests of the staff", "Deal fairly ", "Ignore it" 3 dummy variables
Degree of attention	With "Emphasis doctors more" for reference, set up



independent variable	assignment method
	"Emphasis nurses more" and "Pay attention equally" 2 dummy variables

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