

Supplementary Materials

Supplementary Table 1. Participant Demographics ($n=233$).

Variable	Frequency (n)/percentage (%)
Gender	
<i>Male</i>	8(3.43%)
<i>Female</i>	225(96.57%)
Age	
<i>21-30</i>	76(32.62%)
<i>31-40</i>	137(58.80%)
<i>41-50</i>	16(6.87%)
<i>51-60</i>	4(1.72%)
Hospital level	
<i>Primary hospital</i>	4(1.72%)
<i>Secondary hospital</i>	12(5.15%)
<i>Tertiary hospital</i>	217(93.13%)
Affiliated department	
<i>Internal medicine</i>	103(44.21%)
<i>Surgery</i>	68(29.18%)
<i>Other</i>	62(26.61%)
Working years	
<i>1-5</i>	41(17.60)
<i>6-10</i>	72(30.90%)
<i>11-20</i>	96(41.20%)
<i>>20</i>	24(10.30%)
Education	
<i>College degree</i>	30(12.88%)
<i>Bachelor's</i>	193(82.83%)
<i>Master's or above</i>	10(4.29%)
Professional titles	
<i>Nurse</i>	21(9.01%)
<i>Nurse practitioner</i>	116(49.79%)
<i>Nurse-in-charge</i>	87(37.34%)
<i>Associate Professor in Nursing</i>	9(3.86%)
Marital status	
<i>Unmarried</i>	49(21.03%)
<i>Married</i>	184(78.97%)
Employment type	
<i>Regular employee</i>	124(53.22%)
<i>Contract staff</i>	100(42.92%)
<i>Other</i>	9(3.86%)
Monthly income (RMB yuan)	
<i><2000</i>	4(1.72%)
<i>2000-4999</i>	50(21.46%)
<i>5000-7999</i>	69(29.61%)
<i>>8000</i>	110(47.21%)

Heard of the term “Second Victim”

<i>Yes</i>	62(26.61%)
<i>No</i>	171(73.39%)

Adverse events experienced

<i>Personally experienced</i>	129(55.36%)
<i>Only Witnessed</i>	104(44.64%)

Supplementary Table 2. Descriptive Statistics of SV Nurses' Psychological Trauma, Rumination and PTG ($n=233$).

Variable	<i>Min</i>	<i>Max</i>	<i>M</i>±<i>SD</i>
SV			
Physical distress	2	5	4.16±.94
Psychological distress	2	5	4.65±.56
Practice-related distress	1	5	3.10±.99
Non-work related support	1	5	2.23±1.05
Colleague support	1	4	1.78±.71
Management support	1	5	1.96±.75
Rumination			
Active rumination	10	40	27.43±7.80
Invasive rumination	10	40	27.24±8.36
Total score	21	80	54.67±15.48
PTG			
Insights on life	6	30	22.80±4.60
Personal power	3	15	11.40±2.41
New possibilities	4	20	14.22±3.54
Relationship with others	3	15	10.80±2.57
Self-transformation	5	25	17.28±4.21
Total score	21	105	76.18±16.00

Supplementary Table 3. SV Nurses' Support Needs ($n=233$).

Questionnaire items	<i>M</i> \pm <i>SD</i>	<i>Cumulative frequency (%)</i>
NO.4 The opportunity to schedule a time with a counsellor at my hospital to discuss the event	1.41 \pm 566	96.1
NO. 8 A confidential way to get in touch with someone 24 hours a day to discuss how my experience may be affecting me	1.41 \pm 573	95.7
NO.6 An employee assistance program that can provide free counselling to employees outside of work.	1.47 \pm 609	94.8
NO. 3 A respected peer to discuss the details of what happened.	1.45 \pm 601	94.4
NO. 7 A discussion with my manager or supervisor about the incident.	1.54 \pm 649	92.3
NO. 5 A specified peaceful location that is available to recover and recompose after the occurrence of one of these types of events.	1.52 \pm 644	91.8
NO. 2 Establishment of a fair culture or exemption mechanism in the hospital.	1.54 \pm 688	90.6
NO. 1 The ability to immediately take time away from my unit for a little while.	2.18 \pm 1.070	65.2

Supplementary Table 4. Correlation Among Psychological Trauma, Rumination and PTG.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1 SV psychological trauma	1	.532**	.403**	.481**	.498**	.412**	.453**	.378**	.509**	.465**	-.135*	-.228**	-.207**	-.163*	0.002	-.154*
		0	0	0	0	0	0	0	0	0	0.04	0	0.001	0.012	0.972	0.019
2 Physical distress		1	.641**	.441**	-0.125	-.287**	-.172**	.494**	.587**	.566**	.216**	0.049	.161*	.162*	.297**	.196**
			0	0	0.057	0	0.009	0	0	0	0.001	0.461	0.014	0.013	0	0.003
3 psychological distress			1	.337**	-0.107	-.259**	-.179**	.337**	.403**	.388**	0.069	-0.06	0.026	0.078	.151*	0.06
				0	0.103	0	0.006	0	0	0	0.293	0.365	0.696	0.233	0.021	0.36
4 Practice-related distress				1	-0.117	-0.062	-0.091	.373**	.518**	.468**	-0.101	-.207**	-0.108	-0.083	-0.01	-0.108
					0.076	0.342	0.168	0	0	0	0.123	0.001	0.099	0.205	0.879	0.101
5 Non-work related support					1	.428**	.369**	-0.072	-.0046	-0.061	-.157*	-0.115	-.247**	-.187**	-.161*	-.186**
						0	0	0.275	0.485	0.353	0.016	0.08	0	0.004	0.014	0.004
6 Colleague support						1	.518**	-0.122	-.0105	-0.118	-.189**	-.137*	-.254**	-.229**	-.195**	-.220**
							0	0.064	0.111	0.072	0.004	0.036	0	0	0.003	0.001
7 Management support							1	-0.064	-.0022	-0.044	-.235**	-.187**	-.247**	-.219**	-.179**	-.231**
								0.33	0.743	0.504	0	0.004	0	0.001	0.006	0
8 Active rumination								1	.835**	.955**	.166*	0.026	.134*	.132*	.276**	.163*
									0	0	0.011	0.692	0.041	0.044	0	0.013
9 Invasive rumination									1	.961**	0.104	-0.048	0.034	0.063	.212**	0.087
										0	0.114	0.47	0.606	0.335	0.001	0.185
10 Total of Rumination										1	.140*	-0.013	0.086	0.101	.254**	.129*
											0.033	0.849	0.191	0.125	0	0.049
11 Insight on life											1	.876**	.846**	.817**	.795**	.950**
												0	0	0	0	0
12 Personal power												1	.776**	.717**	.658**	.867**

														0	0	0	0
13 New possibility														1	.823**	.792**	.925**
															0	0	0
14 Relationships with others															1	.761**	.892**
																0	0
15 Self-transformation																1	.883**
																	0
16 Total of PTG																	1

Note. **. Correlation is significant at the 0.01 level (2-tailed); *. Correlation is significant at the 0.05 level (2-tailed).

Supplementary Table 5. The Predictive Effect of SV Nurses’ Psychological Trauma and Rumination on PTG

Dependent variable	Predictor variable	<i>R</i>	<i>R</i> ²	<i>F</i>	<i>B</i>	<i>t</i>
Post-traumatic growth	Psychological trauma	.285	.081	6.725***	-.251	-3.398***
	Active Rumination				.259	2.244*
	invasive Rumination				.001	.991

Note. * and *** represent statistical significance at the levels of 0.05 and 0.001, respectively.