

Table 2 Correct responses to knowledge questions before and after the educational intervention about solid waste management

Knowledge item	Positive responses to item						Statistics					
	Before (total group) (n = 306)		After (intervention group) (n = 150)		After (control group) (n = 146)		Before vs intervention group		Before vs control group		Intervention vs control group	
	No.	%	No.	%	No.	%	χ^2	P-value	χ^2	P-value		
Problems caused by solid waste accumulation												
Spread of diseases	222	72.5	132	88.0	106	72.6	12.9	< 0.001	0.01	0.01	10.1	< 0.001
Water pollution	32	10.5	92	61.3	24	16.4	129	< 0.001	2.70	0.09	60.7	< 0.001
Increased insects	137	44.8	116	77.3	68	46.6	41.9	< 0.001	0.07	0.79	28.4	< 0.001
Increased rodents	52	17.0	60	40.0	34	23.3	155	< 0.001	42.4	0.001	28.4	< 0.001
Bad odours	183	59.8	114	76.0	90	61.6	10.9	< 0.001	0.07	0.79	6.46	0.01
Type of diseases spread												
Gastroenteritis	6	2.0	136	90.7	9	6.2	291	< 0.001	5.39	0.02	151	< 0.001
Eczema	9	2.9	136	90.7	9	6.2	64.8	< 0.001	0.61	0.43	34.4	< 0.001
Diarrhoea	6	2.0	147	98.0	15	10.3	170	< 0.001	2.63	0.10	83.1	< 0.001
Hepatitis	6	2.0	136	90.7	9	6.2	71.9	< 0.001	0.12	0.72	35.7	< 0.001
Scabies	9	2.9	136	90.7	9	6.2	8.7	0.003	0.01	0.92	5.75	< 0.001
Cancer	6	2.0	147	98.0	15	10.3	136	< 0.001	0.79	0.37	66.0	< 0.001
Respiratory disease	6	2.0	136	90.7	9	6.2	24.3	< 0.001	4.55	0.03	35.8	< 0.001
Tetanus	9	2.9	136	90.7	9	6.2	51.5	< 0.001	3.29	0.06	16.8	< 0.001
Type of hazardous waste												
Car batteries	8	2.6	142	94.7	7	4.8	382	< 0.001	0.33	0.56	235	< 0.001
Industrial oils	14	4.6	138	92.0	17	11.6	342	< 0.001	6.66	0.009	188	< 0.001
Car tyres	6	2.0	118	78.7	6	4.1	295	< 0.001	1.03	0.31	166	< 0.001
Medical waste	2	0.7	137	91.3	2	1.4	386	< 0.001	0.05	0.82	237	< 0.001
Problems caused by hazardous waste												
Soil contamination	6	2.0	136	90.7	9	6.2	365	< 0.001	4.21	0.04	208	< 0.001
Groundwater contamination	9	2.9	136	90.7	9	6.2	354	< 0.001	1.91	0.16	208	< 0.001
Skin burns and patches	6	2.0	147	98.0	15	10.3	373	< 0.001	3.19	0.07	222	< 0.001