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Perceptions and practices of pesticides safety measures of rice farmers
in the central region of Vietnam

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Supplement 1. Farmers' perception of importance and practicing safety regulations

Safety measures	Importance	Practice	Z score	P. value
<i>Use of personal protective equipment (9)</i>	3.71 (0.66)	2.75 (0.52)	-15.41	0.000
Wear of face shield	3.53 (1.05)	2.17 (1.25)	-13.49	0.000
Use of protective gloves	4.63 (0.53)	4.64 (0.71)	-0.22	0.830
Wear long trousers	3.66 (0.85)	4.22 (0.74)	-9.54	0.000
Wear shirt with long sleeves	4.22 (0.74)	4.24 (0.86)	-0.68	0.496
Handkerchief	3.42 (1.21)	2.00 (1.09)	-13.41	0.000
Use goggles	3.41 (0.82)	1.94 (1.23)	-13.39	0.000
Use protective hat	3.16 (0.81)	1.91 (1.14)	-11.88	0.000
Wear boots	3.55 (0.94)	2.67 (1.17)	-10.67	0.000
Wear waterproof apron	3.49 (1.28)	1.87 (1.04)	-14.33	0.000
<i>Avoidance of health risk (12)</i>	4.19 (0.41)	4.30 (0.30)	-4.23	0.000
Don't eat / drink during application	4.63 (0.64)	4.84 (0.39)	-5.17	0.000
Don't smoke during application	3.92 (1.01)	4.03 (0.83)	-5.84	0.000
Keep pesticides away from foods	4.43 (0.76)	4.62 (0.57)	-4.08	0.000
Keep children away when mixing and spraying	3.64 (0.86)	3.45 (1.32)	-1.25	0.210
Keep animals away from pesticides	4.17 (0.78)	4.28 (0.82)	-1.67	0.096
Dispose of pesticide waste or leftover with recommended safety procedures	4.18 (0.73)	4.01 (0.80)	-3.08	0.002
Safely dispose of empty containers, equipment according to guidelines	4.07 (0.82)	4.03 (0.75)	-0.86	0.390
Don't store pesticide near residence	3.99 (0.91)	4.05 (1.20)	-0.741	0.459
Keep pesticides in original package	4.12 (0.83)	4.01 (1.24)	-1.12	0.264
Mix pesticides in the open air	3.86 (0.78)	3.88 (1.28)	-1.13	0.258
Do not use spray utensils for other purposes	4.44 (0.65)	4.79 (0.42)	-7.85	0.000
Stop working if wounded	4.68 (0.47)	4.97 (0.17)	-8.85	0.000
<i>Hygiene practices after pesticide use (6)</i>	4.38(0.44)	4.37 (0.28)	-0.807	0.245
Take a bath after applying pesticides	4.30 (0.31)	5.00 (0.00)	-9.69	0.000
Wash hands and face after applying pesticide	4.66 (0.56)	5.00(0.00)	-9.25	0.000
Washing all clothing used in spraying	4.45 (0.63)	4.86 (0.43)	-8.03	0.000
Clean tools / equipment thoroughly	4.23 (0.69)	4.81 (0.48)	-10.46	0.000
Delay harvesting after the last spray	4.13 (0.82)	4.35 (0.89)	-4.15	0.000

Providing first aid for pesticide poisoning	4.16 (0.84)	2.19 (1.21)	-13.91	0.000
Appropriate use of pesticides (12)	4.19 (0.33)	4.23 (0.37)	-1.82	0.069
Do not use old and expired pesticides	4.38 (0.71)	4.51 (0.98)	-1.92	0.054
No use of hazardous pesticides	4.50 (0.62)	4.67 (0.82)	-3.17	0.002
Follow toxicity signs on the container	3.92 (0.92)	2.89 (1.46)	-10.19	0.000
Calibrate the spraying equipment	3.75 (0.81)	3.66 (1.38)	-0.45	0.653
Buy the right amount of pesticides	4.18 (0.75)	4.44 (0.91)	-4.39	0.000
Do not buy damaged packs	4.29 (0.71)	4.68 (0.53)	-7.59	0.000
Consider the weather before pesticide application	4.14 (0.75)	4.67 (0.60)	-8.44	0.000
Define right time of application for specific pests	4.69 (0.51)	4.96 (0.19)	-8.16	0.000
Using appropriate pesticides that kill only targeted pests	4.04 (0.79)	4.02 (1.21)	-0.26	0.798
Use right amount of pesticides based on experts' recommendations	4.26 (0.81)	4.63 (0.73)	-8.06	0.000
Don't mix different types of pesticides	3.28 (0.73)	2.71 (1.24)	-6.66	0.000
Buy pesticides from registered shops	4.21 (0.79)	4.46 (1.13)	-4.16	0.000
Total	4.09 (0.40)	3.89 (0.22)	-9.49	0.000

Note: Mean on a scale from 1 = never to 5 = almost always.