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Erratum

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Erratum: Insecticide resistance status of malaria vectors in endemic states of India (2017–2024): A scoping review

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The authors would like to correct an error in Table 1 where the rows corresponding to Reference [8] and Reference [30] were interchanged during alphabetical arrangement of district data, with discrepancies in data for Maharashtra, Odisha and Uttar Pradesh that have now been rectified. The correct insecticide susceptibility status is provided below. The error does not affect the conclusion of the study. The authors apologize for the error and the inconvenience it might have caused to readers.

Table 1. Insecticide susceptibility status of *Anopheles culicifacies* in different states of India.

State	District (Place)	Year	DDT 4.0%			Malathion 5.0%			Alpha-cypermethrin 0.05%			Deltamethrin 0.05%			Permethrin 0.75%			Reference
			No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	
Assam	Kamrup	2018	80[a]	67.5	CR	40[a]	80.0	CR	-	-	-	-	-	-	-	-	-	[8]
	Udalguri	2018	105	65.7	CR	102	91.8	PR	-	-	-	115	99.1	S	-	-	-	
Chhattisgarh	Balod	2017	-	-	-	-	-	-	-	-	-	-	-	-	102	69.6	CR	Raghavendra unpublished
	Kanker	2017	-	-	-	-	-	-	-	-	-	-	-	-	107	81.3	CR	
	Bastar	2019-2020							180	92.2	PR	150	89.3	CR				[20]
	Bastar (Jagdalpur)	2022	80[a]	16.3	CR	80[a]	75.0	CR	80[a]	82.5	CR	80[a]	91.3	PR	-	-	-	[21]
	Kanker	2022	80[a]	10.0	CR	80[a]	68.8	CR	100	77.0	CR	100	86.0	CR	-	-	-	
Gujarat	Anand	2017	-	-	-	-	-	-	-	-	-	236	30.0	CR	-	-	-	Raghavendra unpublished
	Kheda	2019	-	-	-	160	70.0	CR	160	95.0	PR	160	75.0	CR	160	85	CR	[8]
	Panchmahal	2019	-	-	-	160	75.0	CR	160	95.0	PR	160	85.0	CR	160	90	PR	
Haryana	Nuh	2019	120	38.0	CR	129	78.0	CR	-	-	-	155	86.0	CR	-	-	-	[8]
		2021-2022	428	43.7	CR	431	59.4	CR	-	-	-	427	78.6	CR	-	-	-	[22]
	Palwal	2019	165	29.0	CR	86[a]	90.0	PR	-	-	-	150	83.0	CR	-	-	-	[8]
Jharkhand	Chatra	2019	200	4.5	CR	200	87.0	CR	-	-	-	200	58.5	CR	200	65.5	CR	[8]
	Dhanbad	2019	200	12.0	CR	200	89.5	CR	-	-	-	200	70.5	CR	100	94	PR	
	Giridih	2019	200	17.5	CR	200	89.0	CR	-	-	-	200	86.5	CR	200	93.5	PR	
	Godda	2018	200	10.0	CR	-	-	-	-	-	-	180	76.0	CR	180	93.4	PR	
	Gumla	2018	157	8.3	CR	165	100.0	S	-	-	-	160	100.0	S	162	100	S	
	Khunti	2018	180	7.5	CR	160	100.0	S	-	-	-	200	85.0	CR	155	100	S	
	Koderma	2019	200	9.5	CR	200	93.0	PR	-	-	-	200	85.0	CR	200	89	CR	
	Latehar	2019	200	15.5	CR	200	88.5	CR	-	-	-	200	93.5	PR	200	93.5	PR	
	Palamu	2019	200	11.5	CR	200	83.5	CR	-	-	-	200	87.5	CR	200	89	CR	
	Sahibganj	2018	200	23.5	CR	100	98.0	S	-	-	-	145	77.7	CR	175	95.5	PR	
	Simdega	2017	180	25.3	CR	180	99.0	S	-	-	-	200	85.0	CR	155	79.3	CR	
	West Singhbhum	2018	160	47.0	CR	200	69.0	CR	-	-	-	200	84.0	CR	160	85.6	CR	
Karnataka	Kalaburgi	2019	50[a]	2.0	CR	51[a]	49.0	CR	50[a]	16.0	CR	52[a]	86.5	CR	-	-	-	[8]
	Bagalkot	2017	-	-	-	-	-	-	-	-	-	100	86.0	CR	-	-	-	[23]
	(Almatti Dam)	2020-2021	80[a]	27.5	CR	-	-	-	-	-	-	100	86.0	CR	-	-	-	[24]
Madhya Pradesh	Alirajpur	2018-2019	105	7.6	CR	105	58.1	CR	105	87.6	CR	105	96.2	PR	-	-	-	[25]
	Anuppur	2017	105	16.2	CR	105	64.8	CR	105	98.1	S	105	98.1	S	-	-	-	
	Bhind	2019	105	16.2	CR	105	63.8	CR	105	95.2	PR	105	97.1	PR	-	-	-	
	Datia	2019	100	60.0	CR	100	93.0	PR	100	97.0	PR	100	100.0	S	-	-	-	
	Dhar	2018-2019	120	17.5	CR	120	65.0	CR	120	84.2	CR	120	93.3	PR	-	-	-	
	Hoshangabad	2018	105	7.6	CR	105	72.4	CR	105	96.2	PR	105	95.2	PR	-	-	-	
	Khargone	2018	120	12.5	CR	120	65.0	CR	120	93.3	PR	120	96.7	PR	-	-	-	
	Mandla	2017	75[a]	28.0	CR	75[a]	84.0	CR	120	95.0	PR	120	98.3	S	-	-	-	[26]
		2019	105	24.8	CR	105	50.5	CR	135	82.2	CR	135	95.6	PR	-	-	-	
	Panna	2017	105	12.4	CR	105	73.3	CR	105	99.0	S	105	99.0	S	-	-	-	[25]
	Shivpuri	2019	100	41.0	CR	100	87.0	CR	100	93.0	PR	100	97.0	PR	-	-	-	
	Singrauli	2017	105	18.1	CR	105	70.5	CR	105	90.5	PR	105	93.3	PR	-	-	-	
	Tikamgarh	2017	105	16.2	CR	105	84.8	CR	105	100.0	S	105	100.0	S	-	-	-	
	Umaria	2017	105	14.3	CR	105	76.2	CR	105	95.2	PR	105	96.2	PR	-	-	-	

Table 1 continues in the next page.

Table 1. Continued.

State	District (Place)	Year	DDT 4.0%			Malathion 5.0%			Alpha-cypermethrin 0.05%			Deltamethrin 0.05%			Permethrin 0.75%			Reference
			No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	No. Exp.	% Mort.	Status	
Maharashtra	Gadchiroli	2016-2017	80[a]	37.0	CR	80[a]	74.0	CR	-	-	-	125	83.8	CR	-	-	-	[27]
		2012-2018	200	14.0	CR	200	89.5	CR	-	-	-	200	95.5	PR	-	-	-	[28]
	Gadchiroli (18 PHC, 147 villages)	2015-2019	2 415	18.0-58.0	CR	3 963	60.0-95.0	PR	-	-	-	12 025	77.0-100.0	PR	660	97.5-100.0	S	[29]
	Gadchiroli	2019	227	37.0	CR	196	71.9	CR	110	88.2	CR	255	87.8	CR	90[a]	92.2	PR	[8]
Odisha	Angul	2020	120	28.0	CR	120	98.0	S	-	-	-	120	95.2	PR	-	-	-	[8]
	Balangir	2017	>100	37.0	CR	>100	62.0	CR	-	-	-	>100	84.0	CR	-	-	-	[30]*
		2018	>100	28.0	CR	>100	74.0	CR	-	-	-	>100	82.0	CR	-	-	-	
	Bhadrak	2017-2018	30[a]	50.0	CR	-	-	-	-	-	-	-	-	-	-	-	-	[8]
	Cuttack	2017-2018	30[a]	60.0	CR	-	-	-	-	-	-	-	-	-	-	-	-	
	Gajapati	2017	>100	24.0	CR	>100	46.0	CR	-	-	-	>100	80.0	CR	-	-	-	
		2018	>100	20.0	CR	>100	72.0	CR	-	-	-	>100	82.0	CR	-	-	-	[30]*
	Ganjam	2017	>100	14.0	CR	>100	68.0	CR	-	-	-	>100	85.0	CR	-	-	-	
		2018	>100	20.0	CR	>100	71.0	CR	-	-	-	>100	82.0	CR	-	-	-	
	Jagatsinghpur	2017-2018	30[a]	46.6	CR	-	-	-	-	-	-	-	-	-	-	-	-	[8]
	Jajpur	2017-2018	30[a]	60.0	CR	-	-	-	-	-	-	-	-	-	-	-	-	
	Jharsuguda	2022	60[a]	25.0	CR	-	-	-	-	-	-	60[a]	95.0	PR	-	-	-	[32]
	Kalahandi	2017	-	-	-	-	-	-	-	-	-	75[a]	74.6	CR	-	-	-	[31]
		2017	>100	23.0	CR	>100	50.0	CR	-	-	-	>100	77.0	CR	-	-	-	[30]*
		2018	>100	19.0	CR	>100	66.0	CR	-	-	-	>100	86.0	CR	-	-	-	
		2020	120	33.0	CR	120	71.0	CR	-	-	-	120	92.5	PR	-	-	-	[8]
	Kandhamal	2017	>100	19.0	CR	>100	53.0	CR	-	-	-	>100	81.0	CR	-	-	-	[30]*
		2018	>100	10.0	CR	>100	76.0	CR	-	-	-	>100	80.0	CR	-	-	-	
	Khurda	2017-2018	30[a]	56.6	CR	-	-	-	-	-	-	-	-	-	-	-	-	[8]
	Koraput	2017	-	-	-	-	-	-	-	-	-	75[a]	73.3	CR	-	-	-	[31]
		2017	>100	14.0	CR	>100	66.0	CR	-	-	-	>100	83.0	CR	-	-	-	[30]*
		2018	>100	17.0	CR	>100	69.0	CR	-	-	-	>100	78.0	CR	-	-	-	
	Malkangiri	2017	-	-	-	-	-	-	-	-	-	75[a]	84.0	CR	-	-	-	[31]
		2017	>100	11.0	CR	>100	64.0	CR	-	-	-	>100	80.0	CR	-	-	-	[30]*
		2018	>100	14.0	CR	>100	78.0	CR	-	-	-	>100	76.0	CR	-	-	-	
	Mayurbhanj	2017-2018	30[a]	40.0	CR	-	-	-	-	-	-	-	-	-	-	-	-	[8]
	Nabarangpur	2017	-	-	-	-	-	-	-	-	-	75[a]	85.3	CR	-	-	-	[31]
		2017	>100	17.0	CR	>100	61.0	CR	-	-	-	>100	83.0	CR	-	-	-	
		2018	>100	21.0	CR	>100	78.0	CR	-	-	-	>100	82.0	CR	-	-	-	[30]*
	Nuapada	2017	>100	27.0	CR	>100	62.0	CR	-	-	-	>100	85.0	CR	-	-	-	
		2018	>100	14.0	CR	>100	83.0	CR	-	-	-	>100	80.0	CR	-	-	-	
	Puri	2017-2018	30[a]	60.0	CR	-	-	-	-	-	-	-	-	-	-	-	-	[8]
	Raygada	2017	-	-	-	-	-	-	-	-	-	75[a]	80.0	CR	-	-	-	[31]
		2017	>100	16.0	CR	>100	59.0	CR	-	-	-	>100	84.0	CR	-	-	-	[30]*
		2018	>100	17.0	CR	>100	66.0	CR	-	-	-	>100	81.0	CR	-	-	-	
Uttar Pradesh	Badaun	2017	90[a]	0	CR	90[a]	98.9	S	-	-	-	90[a]	92.2	PR	-	-	-	
	Banda	2018	120	4.2	CR	120	95.8	PR	-	-	-	120	86.7	CR	-	-	-	
	Gautam Budh Nagar	2018	60[a]	3.3	CR	60[a]	80.0	CR	-	-	-	60[a]	91.7	PR	-	-	-	
	Hathras	2018	120	0	CR	120	95.0	PR	-	-	-	120	96.7	PR	-	-	-	[8]
	Jhansi	2018	120	2.5	CR	120	94.2	PR	-	-	-	120	92.5	PR	-	-	-	
	Kanpur Dehat	2018	120	5.8	CR	120	96.7	PR	-	-	-	120	93.3	PR	-	-	-	
	Mirzapur	2019	160	4.4	CR	160	94.4	PR	-	-	-	160	96.3	PR	-	-	-	
	Prayag Raj	2019	160	0	CR	160	93.3	PR	-	-	-	160	91.9	PR	-	-	-	
	Saharanpur	2017	130	6.9	CR	130	93.1	PR	-	-	-	130	91.5	PR	-	-	-	
	Sonebhadra	2019	180	3.9	CR	180	92.2	PR	-	-	-	180	91.7	PR	-	-	-	

n[a]: <100; DDT-dichloro diphenyl trichloroethane; No. Exp.: Number of mosquitoes exposed; % Mort.: Percent mortality; Status: S-Susceptible, ⩾98% mortality; PR: Possible resistance, 90%-97% mortality; CR: Confirmed resistance, <90% mortality[16-19].*This reference states exposure of 1500 mosquitoes including control averaging >100 in the study years 2017 and 2018, respectively and the mentioned % mortalities are approximate estimations from the provided graphs in the absence of exact data.