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Table S1: Farmers' population, sample size and proportional allocation for questionnaire administration and lung function test

S/N	Farm Settlement	Number of houses/settlement	Farmers who met inclusion / exclusion criteria	Proportional allocation
1	Ajgunle	63	52	31 (15.90%)
2	Ibiade	35	22	13 (6%)
3	Ago-Iwoye	52	34	20 (10.26)
4	Sawonjo	62	40	24 (12.31%)
5	Ikenne	22	14	8 (4.1%)
6	Coker	120	88	53 (27.18%)
7	Ado-odo	100	76	46 (23.59%)
	Total	454	326	195

Table S2: Socio-demographic characteristics of respondents

Variable	Subgroups	Farmers (%)	Non-farmers (%)
Age groups (years)	≤ 20	11 (5.6)	11 (5.6)
	21 – 30	21 (10.8)	18 (9.2)
	31 – 40	47 (24.1)	52 (26.7)
	41 – 50	32 (16.4)	(21)
	> 50	84 (43.1)	73 (37.4)
Sex	Male	141 (72.3)	121 (62.1)
	Female	54 (27.7)	74 (37.9)
Marital status	Single	34 (17.4)	32 (16.4)
	Married	150 (76.9)	148 (75.9)
	Divorced	5 (2.6)	7 (3.6)
	Separated	-	2 (1.0)
	Widow	6 (3.1)	6 (3.1)
Educational status	Primary	69 (35.4)	35 (17.9)
	Secondary	83 (42.6)	84 (43.1)
	Tertiary	30 (15.4)	76 (39)
	None	13 (6.7)	-
Ethnicity	Yoruba	145 (74.4)	169 (86.7)
	Igbo	21 (10.8)	20 (10.3)
	Hausa	1 (0.5)	6 (3.1)
	Tiv	28 (14.4)	-
Duration of stay in farm settlement (years)	5-7	55 (28.2)	
	8-15	25 (12.8)	
	16-20	23 (11.8)	
	Above 20	92 (47.2)	
Occupation	Farmers	195 (100)	-
	Civil servant	-	81 (41.5)
	Public servant	-	69 (35.4)
	Petty traders	-	77 (39.5)

Table S3: Occupational history and safety practices of farmers

Variable	Subgroups	Farmers (%)
Farming experience (years)	5 years	32 (16.4%)
	6-10 years	27 (13.8%)
	11-15 years	16 (8.2%)
	16-20 years	16 (8.2%)
	>20 years	104 (53.3%)
Daily work duration	>8 hours	106 (54.4%)
	8 hours	37 (19.0%)
	<8 hours	52 (26.7%)
Farming category	Planting of crop	110 (56.4%)
	Livestock	18 (9.2%)
	Both	67 (34.4%)
Application of chemical spray for pest control	No	32 (16.4%)
	Yes	163 (83.6%)
Application of chemical spray by self	No	72 (36.9%)
	Yes	123 (63.1%)
Use of personal protective equipment	No	100 (51.3%)
	Yes	94 (48.2%)
	No response	1 (0.5%)
Manure and fertilizer application	No	57 (29.2%)
	Yes	138 (70.8%)
Type of fertilizer applied	Unknown	61 (31.3%)
	Urea	17 (8.7%)
	NPK	50 (25.6%)
	Urea & NPK	42 (21.5%)
	Poultry waste	18 (9.2%)
	Faeces	3 (1.5%)
	Compost	2 (1.0%)
	Pig dung	1 (0.5%)
	Urea, NPK & poultry waste	1 (0.5%)

Table S4: Association between FEV₁ and duration of stay in building

Farmers		FEV1		
		LHEV	HTEV	Total
Duration of stay in building	8 – 20 years	55 (100.0%)	0 (0.0%)	55 (100.0 %)
	Above 20 years	21 (84.0%)	4 (16.0%)	25 (100.0%)
Total		76 (95.0 %)	4 (5.0 %)	80 (100.0 %)

Fisher's Exact Test: $p = 0.008$, RR = 1.190, CI: 1.003 – 1.413

HTEV – Higher than expected value; LTEV – Lower than expected value