

Air Purifier





THE AIR POLLUTION IN

BANGKOK, THAILAND

Air Pollution in Bangkok, Thailand is greater than WHO safety standard up to 2.4 times





Small Particulate Matter (PM) in the air is considered as carcinogenic (Group 1)

by World He

organization (WHO)

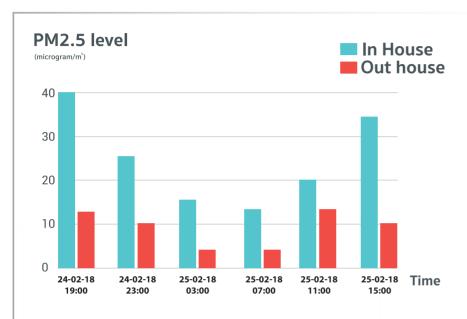
Every 10 microgram per cubic meter of PM2.5 increases breast cancer mortality up to 80% in women and Risk lung cancer 36% for men every 5 microgram per cubic meter of PM2.5 increases chance of stroke up to 19%.



- Ultrafine Technology decreases PM2.5 up to 99.9% within 2 hours
- Ultrafine Technology
 decreases PM0.1 up to 99.9% within 2 hours



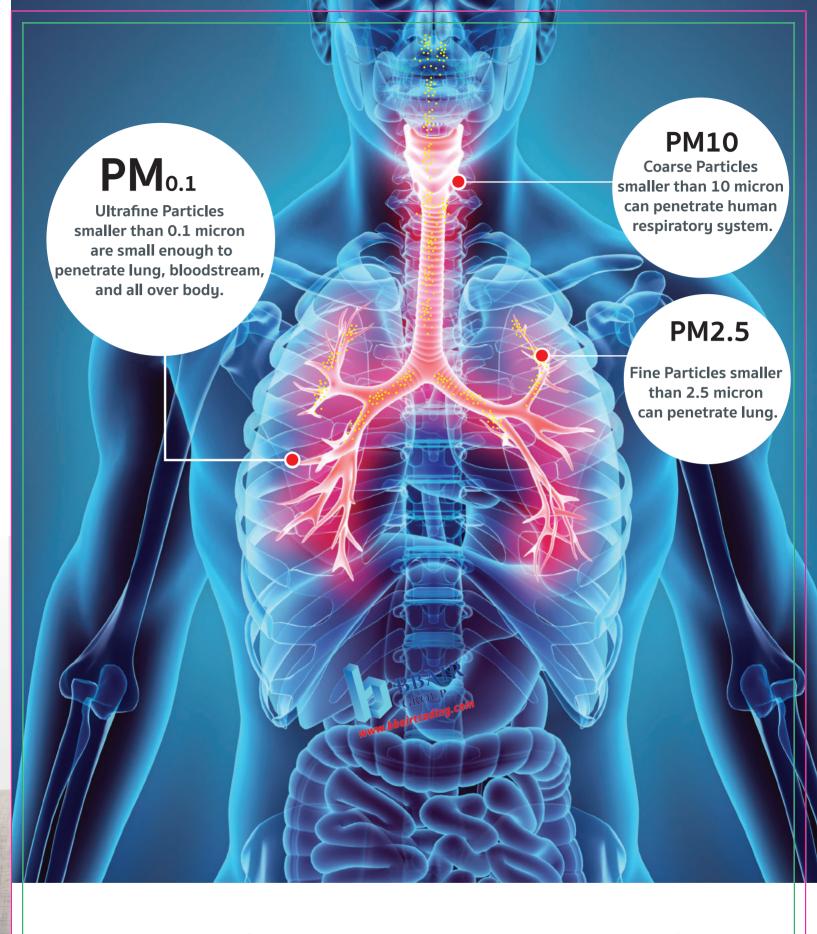
PM2.5 can be found everywhere, even in very clean room



From air sampling survey
from 15 places in Bangkok,
Thailand between
February 20, 2018 – March 2, 2018,
Saijo Denki researchers
found that 100% of sampling sites
had PM2.5 exceeds WHO safety level.

Reference information in Silom, Bangkok, Thailand

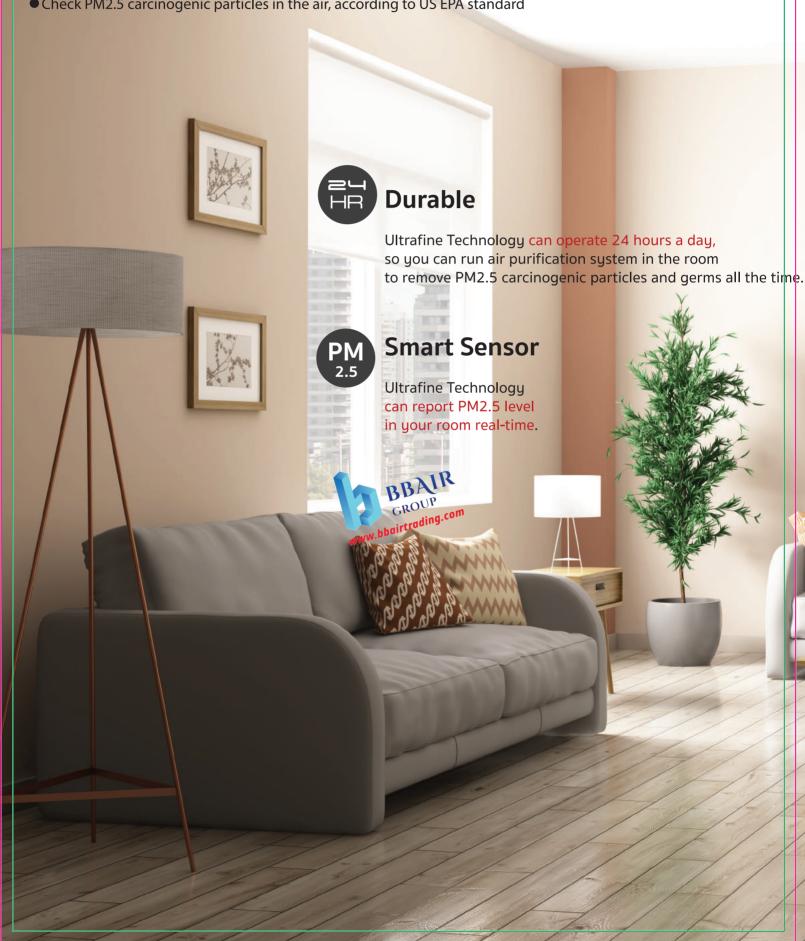




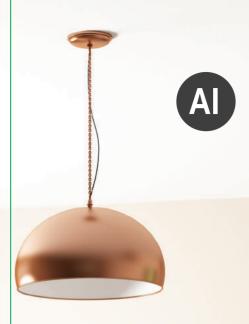
Because Small Unseen Particles in the air are more dangerous than we thought.



- Ultrafine Technology is designed to trap PM2.5 carcinogenic particles in the air up to 0.01 micron. Ultrafine Technology can decrease PM2.5 particles 99.9% within 2 hours, tested by Japan Electrical Testing.
- Check PM2.5 carcinogenic particles in the air
- Check PM2.5 carcinogenic particles in the air, according to US EPA standard







Artificial Intelligence Technology

Ultrafine Air Purifier has artificial intelligence (Al) to control air quality in the room automatically. When turning on "Ultrafine Particles Auto Removal", Ultrafine air purifier will control PM2.5 concentration in the room to be in "GOOD" level according to US EPA standard. Even if the air purifier is turned off, it will turn on automatically to remove PM2.5 particles to keep the room in level "GOOD" all the time.



Smart Energy Monitoring

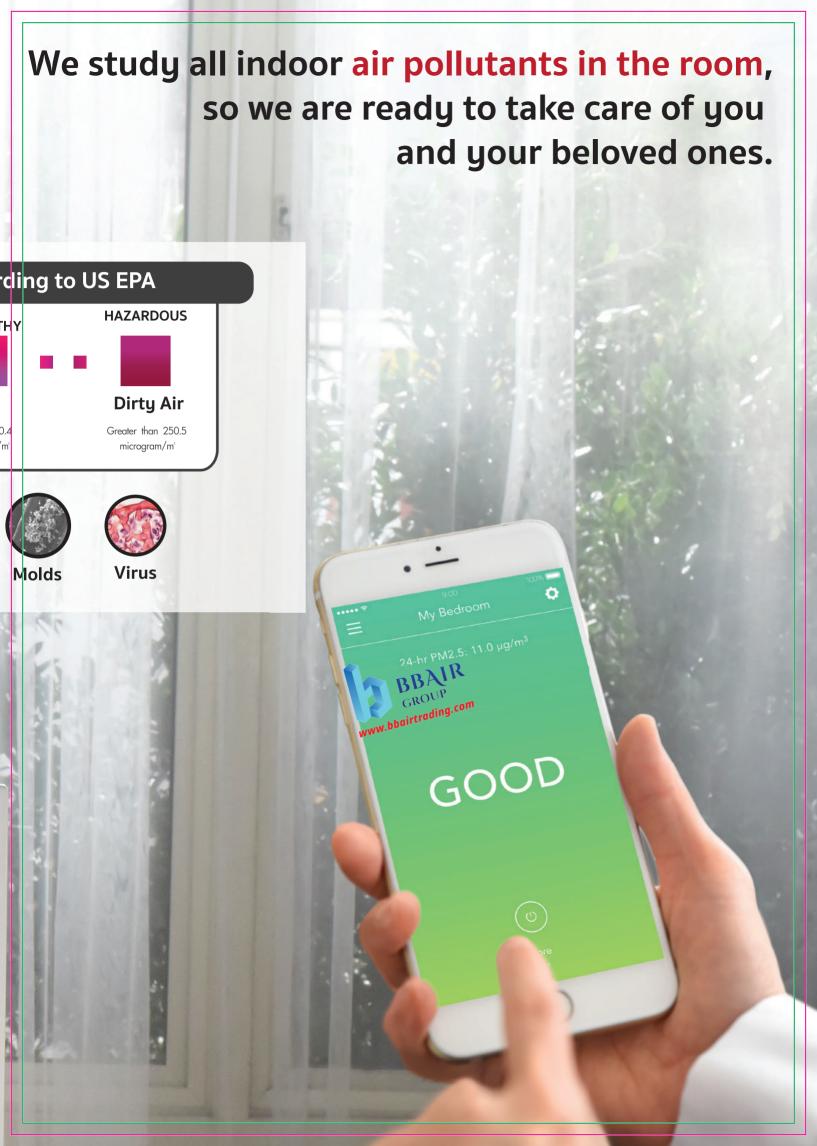
Ultrafine air purifier can connect to internet to report PM2.5 carcinogenic particles on smartphone application, according to US EPA safety standard.











ULTRAFINE





Filter coarse dusts, such as road dusts, animal dander, pollens, etc.







Reduce bacteria 99.9% in 18 hours, tested by Japan Spinners Inspecting Foundation.

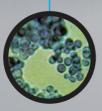


Pre-Filter









Functional HEPA Filter inactivate virus up to 99.9% in 6 hours, tested by Japan Food Research Laboratories, Japan.

Scallop from poll up to 96.67 tested by Nic

Reduce bacteria 99.9% in 18 hours, tested by Japan Spinners Inspecting Foundation.







Check PM2.5 carcinogenic particles in the air.

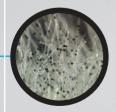
Widely used in medical areas, because ozone can kill germs 3,215 times more effectively than chlorine.



Energy saving motor costs only 0.10 Baht per hour.

Check PM2.5 carcinogenic particles in the air and report on smartphone application.

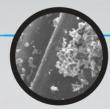
PM 2.5 Sensor



llop Filter removes allergens pollens and house dust mites .67'% and 93.45% in 10 minutes, Nichi Nichi Pharmaceutical, Japan.

ULTRAFINE

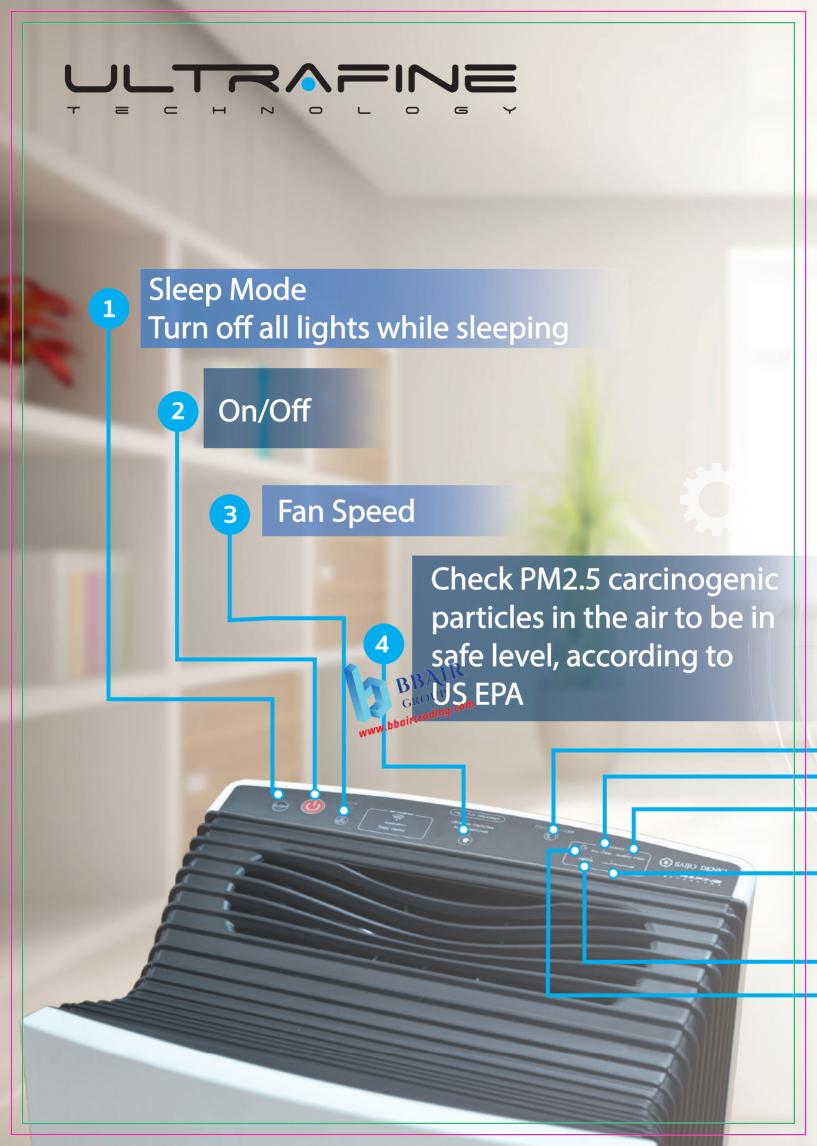
Filter



Ultrafine air purification system remove
PM2.5 particles up to 0.01 micron,
tested by
Japan Electrical Testing Laboratories



Trap small particles in the air up to 0.01 micron, tested by NECTEC.





Powerful Ozone Air Purification system to kill germs and remove odors

Self-Notification for pre-filter cleaning

Self-Notificationfor Scallop filter cleaning

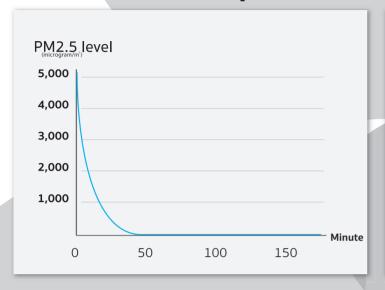
Suf-Novincation for literatine Filter cleaning

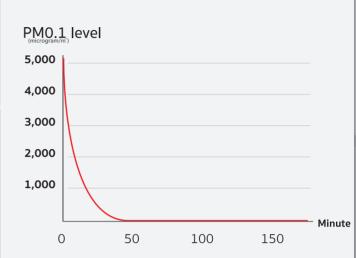
Self-Notificationfor HEPA filter cleaning

Auto Warning for abnormal operation



Reduce PM2.5 Carcinogenic Particles in the air up to 99.9% within 2 hours





Tested by Japan Electrical Testing (Thailand)

Model: Ultrafine Air Purifier / ULTRAFINE TECHNOLOGY









The European Study of Cohorts for Air Pollution Effects (99,446 volunteers, followed up for 12 years) found that PM2.5 was associated with increased risk of cardiovascular diseases up to 19%.



The European Study of Cohorts for Air Pollution Effects (312,944 volunteers, followed up for 12 years) found that PM2.5 was associated with increased risk of lung cancer up to 18%.



PM2.5 was associated with greater annual progression of IMT (intima-media thickness, predictive of cardiovascular events) 5.0 micron per year.



Each 10 mg/m3 increase in PM2.5 concentrations was associated with a 15–27% increase in lung cancer mortality, according to the study in 188,699 lifelong non-smokers followed up for 26 years.



PM2.5 was associated with increased risk of mortality for all causes of cancer up to 22%, breast cancer up to 80% in women, and lung cancer up to 36% in men, according to the study in Hong Kong (66,820 volunteers, followed up for 10 years).



Reduce PM2.5 and P

Test Result

Decrease Fine Particles (PM2.5) and

Testing Institute

Japan Electrical Testing (JET) ai



Reduce House Dust Mite Allergen

Test Result

Decrease Mite Allergen Der F 2, which is allergen from house dust mite, up to 93.45% in 10 minutes

Testing Institute

Nichi Nichi Pharmaceutical – Central Research Laboratories, Japan



Tested by Accredited Institutes Worldwide



Inactivate Virus

Test Result

Inactivate Influenza A Virus H1N1 u within 6 hours

Testing Institute

Japan Food Research Laboratories,

PM0.1 Carcinogenic Particles in the air

and Ultrafine Particles (PM0.1) up to 0.1 micron 99.9% in 2 hours

and King Mongkut's University of Technology Thonburi







Reduce Pollen Allergen

Test Result

Decrease Polle Allerger Try 1 up to 96.67% within 10 minus

Testing Institutw^{w.l}

Nichi Nichi Pharmaceutical – Central Research Laboratories, Japan

1 up to 99.999%

s. Japan





Trap particles as small as 0.01 micron

Test Result

Decrease dust particles in the air as small as 0.01 micron, or 7.000 times smaller than human hair

Testing Institute

Thailand's National Electronics and Computer Technology Center (NECTEC)





Kill airborne molds

Test Result

Kill these molds up to 100% within 1 wee GROUP Aspergillus niger, Penicillium citrinum, Chaetomium globosum, Myrothecium verwedaria

Testina Institute

Kaken Test Center, Japan



Kill Bacteria

Test Result

Kill these bacteria species, including to pneumonia, up to 99.999% in 18 Escherichia coli, Klebsiella pneumoni Staphyllococcus aureus

Testing Institute

Japan Spinners Inspecting Foundation

Additional chains and analysis of the control of th

Tested by Accredited Institutes Worldwide







Inactivate Bacterial Growth

Test Result

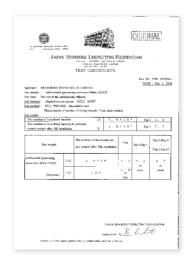
Inactivate bacterial growth, including species that contributes to nBBactor to 99.9999% in 18 hours. Escherichia coli assella ingroumoniae, Staphyllococcus www.bulstradingroumoniae

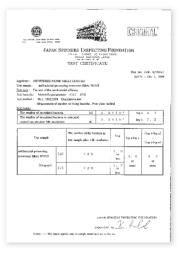
Testing Institute

Kaken Test Center Japan

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ation, Japan





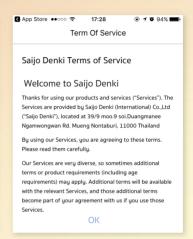
Apps Installation Manual













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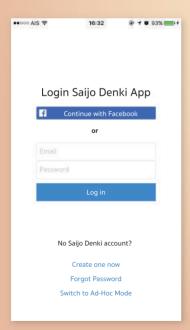
3

Select Wi-Fi by Serial No.

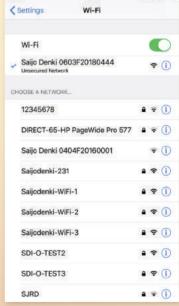
Download Saijo Denki App
(iOS and Android)

OK

√ \$ 24% · →







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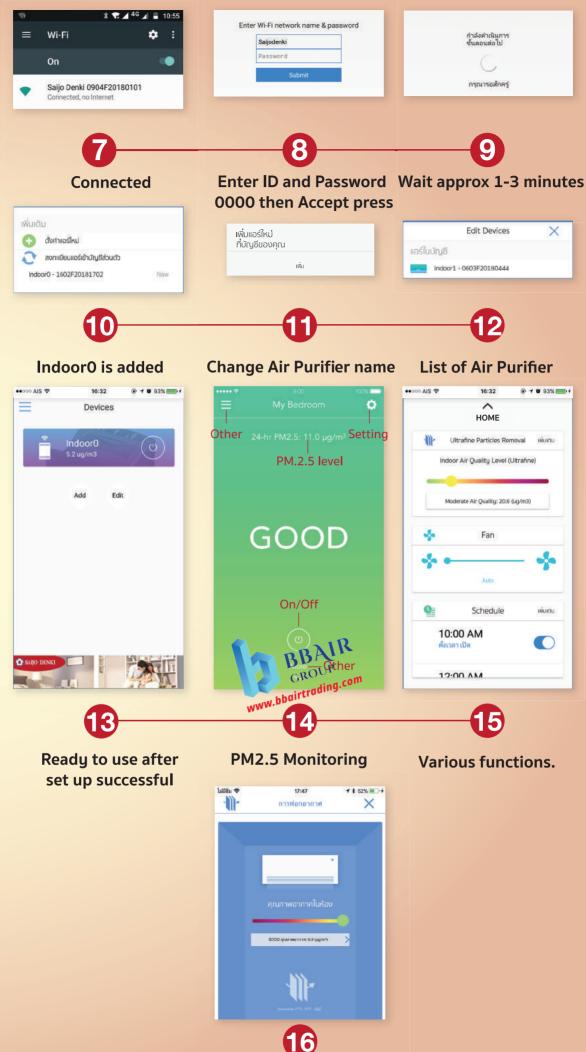
6

Log in by Email or Log in by Facebook

Select setup new to start using Air Purifier by WiFi.

Connect WiFi to Air Purifier

This can be done any one and only when smartphone is connected to WiFi Router.



On/Off Ozone mode

Specification

Model			AP-P35	
Max room size	sq.m.		35	
Power Source	V/Ph/Hz		220-240/1/50	
Power Consumption	W		30	
Airflow rate (High speed)	CFM		250	
Flow Level			High / Medium / Low	
Unit Size (WxLxH)	mm.		315 x 350 x 545	
Unit Weight	KG.		7.5	
		Pre Filter - Collect coarse dust particles.		
		HEPA with Functional Filter - Trap small particles 0.3 micron and removes allergens from molds, bacterias and virus.		
		Scallop with Anti Bacterial Filter - Removes bacterias.		
		Ultrafine Technology Filter - Remove up to 99.9% of fine PM2.5 and PM0.1 Ultrafine particles.		
		Double APS - Filter small particles 0.01 micron.		
		Turbo APS - Ozone Generator - air purification system to kill pathogens up to 3,125 times more efficient than chlorine.		
Function Control		Control Air Purifier - On/Off, Fan speed setting, Sleep mode, Ozone Purifier mode.		
		Ultrafine Particles Auto Removal mode - Operate 24 hours run air purification to remove PM2.5 all the time.		
		Control by Smartphone with Application and WiFi.		
		Timer setting by Smartphone with Application and WiFi.		
		Report level of PM2.5 carcinogenic particles in the air by Smartphone with Application and WiFi.		
		Notification to clean filter.		
		Maintenance notification to change Pre-Filter.		
		Maintenance notification to change Scallop with Anti Bacterial Filter.		
		Maintenance notification to change HEPA with Functional Filter.		
		Maintenance notification to change Ultrafine Technology Filter.		

Quality Standards





















- [1]. Reference WHO Global Platform on Air Quality & Health Bangkok, Thailand (http://breathelife2030.org 2018/04/25)
 [2]. Wong CM, Tsang H, Lai HK, Thomas GN, Lam KB, Chan KP, et al. Cancer mortality risks from long-term exposure to ambient fine particle. Cancer Epidemiol Biomarkers Prev 2016;25(5),839-45.
 [3]. Stafoggia M, Cesaroni G, Peters A, Andersen AJ, Badaloni C, Beelen R, et al. Long-term exposure to ambient air pollution and incidence of cerebrovascular events: Results From 11 European cohorts within the ESCAPE project. Environmental Health Perspectives 2014;122,919-25.
 [4]. Raaschou-Neilsen O, Andersen ZJ, Beelen R, Samoli E, Stafoggia M, Weinmaur G, et al. Air pollution and lung cancer incidence in. 17 European cohorts: prospective analyses from the European Study of Cohorts for Air. Pollution Effects (ESCAPE). Lancet Oncol 2013;14,813-22.
 [5]. Adar SD, Sheppard L, Vedal S, Polak JF, Sampson PD, Diez AV, et al. Fine particulate air pollution and the progression of carotid intima-medial thickness: A prospective cohort study from the multi-ethnic study of atherosclerosis and air pollution. PLOS Med 2013;10(4):e1001430.
 [6]. Turner MC, Krewski D, Pope A, Chen Y, Gapstur SM. Long-term ambient fine particulate matter air pollution and lung cancer in a large cohort of never-smokers. Am J Respir Crit Care Med 2011;184:1374-81.





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