

BIOCIDAL OCCUPATIONAL AND ENVIRONMENTAL HEALTH ASSOCIATION

biyosider.org.tr

WELCOME

Prof. Dr. Muhsin AKBABA
BIYOSIDER Association President
akbaba1953@gmail.com

January 2025

About Our Association

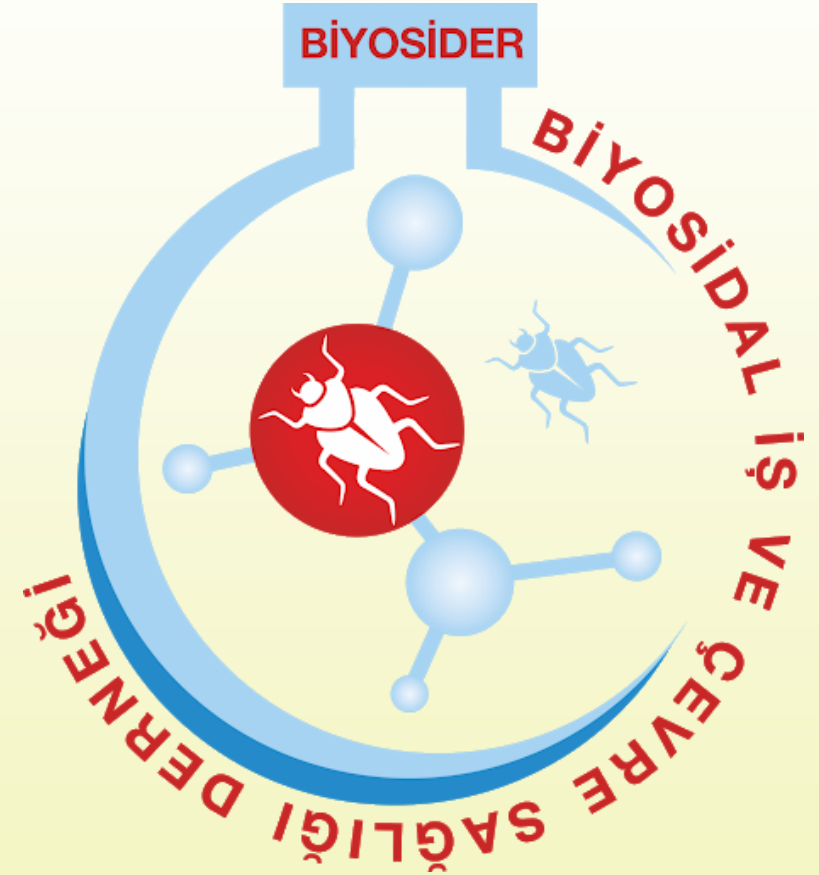
- Today, due to many factors such as industrial development, technological advancement, changing lifestyles, urbanization, increasing waste, and population growth, there has been an increase and diversity in the dangers that threaten health.
- In order not to be defenseless against all kinds of newly emerging risks, protective systems must also be strong and active. The first rule for doing this is knowledge and education.

About Our Association

- In our country, there has also been an increase in biocide diversity due to the transition to modern agriculture, progress and expansion in health services, and the emergence of different industrial sectors.
- In this context, many needs have arisen such as monitoring, evaluating, and implementing scientific developments related to the subject, informing the society correctly and scientifically, conducting scientific studies on the subject, educating both the society and the professionals in the field, and creating an analysis infrastructure.

BIYOSİDER

- Biocidal Occupational and Environmental Health Association was founded in 2015 under the presidency of Prof. Dr. Muhsin AKBABA with its academic staff, establishment purpose, actions, targets and the distinction of being the “first” in its field.



Our Vision

- To be a part of national and international solutions for the society and to carry out scientific organizations and projects for the development of a sustainable living habitat in a healthier and more livable world.

Our Mission

- In order to improve the health of all individuals, especially vulnerable groups in the society we live in, starting from occupational and environmental health;
- To bring together employees who are devoted to “Public Health” for the Health of the Public, to ensure unity of power and goals with companies, public institutions, other NGOs working on this issue, and to increase the capacity of trained people,
- To provide services in line with rational, principled, responsible, respectful of human rights, environmentally sensitive, innovative approaches.



2.Uluslararası Mesleki ve Çevresel Hastalıklar Kongresi

4-8 Mart 2018



Uluslararası Mesleki ve Çevresel Hastalıklar Kongresi

27-29 Mart 2017



3.Uluslararası Biyosidal Kongresi

22-25 Kasım 2016



2.Uluslararası Biyosidal Kongresi

9-13 Kasım 2015



Uluslararası Biyosidal Kongresi

19-22 Mart 2014

Our Congresses



5. Uluslararası Biyosidal Kongresi

5-7 Mart 2021



4. Uluslararası Mesleki ve Çevresel Hastalıklar Kongresi

5-8 Mart 2020



3. Uluslararası Mesleki ve Çevresel Hastalıklar Kongresi

3-7 Mart 2019



4. Uluslararası Biyosidal Kongresi

25-29 Mart 2018

- <https://biyosidal2024.org/>
- It has been organized annually since 2014.
- It is supported by many institutions and organizations that play a major role in the international arena, such as the World Health Organization (WHO), Food and Agriculture Organization (FAO), Confederation of European Pest Management Associations (CEPA), International Association of Rural Health and Medicine (IARM).
- It was organized on **13-17 November 2024** with the participation of the competent authorities of the European Union member countries, universities, hospitals, municipalities, domestic and international sector representatives.



Istanbul
Bilgi Üniversitesi





7th INTERNATIONAL BIOCIDAL CONGRESS



 7th INTERNATIONAL
BIOCIDAL CONGRESS



Webinar Programs



AKTİF MADDE İÇERMEYEN BİYOSİDAL ÜRÜNLER VE PANDEMİ SÜRECİ Güncel Mevzuat ve Uygulamalar

Biyosidal İş ve Çevre Sağlığı Derneği



Tuncay ÖZER
(Sağlık Bakanlığı Halk Sağlığı Genel Müdürlüğü, Çevre Sağlığı Daire Başkanı)
Aktif Madde İçeren ve İçermeyen Biyosidal Ürünler ve Pandemi Sürecindeki Güncel Durum



Münir Devriş TAMKOÇ
(Sağlık Bakanlığı Halk Sağlığı Genel Müdürlüğü Çevre Sağlığı Daire Başkanlığı)
Aktif Madde İçermeyen Biyosidal Ürünler: Güncel Mevzuat ve Uygulamalar



Prof. Dr. Güven ÖZDEMİR
(Ege Üniversitesi)
Aktif Madde İçermeyen Biyosidal Ürünlerde etkinlik testleri



Doç. Dr. Metin BİLGE
(Ege Üniversitesi)
UVC nedir ve UVC Destekli Havalandırma



Öğr. Gör. Ahmet KORKMAZ
(Akdeniz Üniversitesi)
UV-C Destekli Havalandırma ve İklimlendirme Sitemlerinde İç Havanın Zararlı Mikroorganizmalardan Arındırma Yöntemleri



KAYIT OLMAK İÇİN
www.ftsakademi.org

15 Aralık 2020
Salı • 12:30 - 13:30

Webinar Programs

**PANDEMİ DÖNEMİNDE KULLANILAN BİYOSİDAL ÜRÜNLERİN
İNSAN SAĞLIĞINDAKİ YERİ VE ÖNEMİ**

MODERATÖR

Doç. Dr. Ersin NAZLICAN
Çukurova Üniversitesi
Tıp Fakültesi Halk Sağlığı AD.

Dr. Onur ACAR
Çukurova Üniversitesi
Tıp Fakültesi Halk Sağlığı AD.

Uzm. Dr. Burak KURT
Kastamonu Merkez
Toplum Sağlığı Merkezi

ftsakademi
CANLI

ÜCRETSİZ KAYIT OLMAK İÇİN
www.ftsakademi.org

19 Ocak 2021
Salı • 19:00 - 20:30

BIYOSİDAL VE ÇEVRE SAĞLIĞI MERKEZİ

Webinar Programs



TBBA AKADEMİ

Türkiye Biyolojik Bilimler Ağı



Uzm.Dr. BURAK KURT
Moderator

BIYOSİDAL ÜRÜNLER, KULLANIM ALANLARI, İNSAN VE ÇEVRE SAĞLIĞI ÜZERİNE ETKİLERİ

1
ZOOM & YOUTUBE CANLI YAYIN

2
ZOOM:
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YOUTUBE
TBBATBBA



Uzm.Dr. MUSA ŞAHİN



Uzm.Dr. DİDEM YÜZÜGÜLLÜ



Uzm.Dr. ONUR ACAR

25 ŞUBAT 2022 SAAT 20:00



TÜRKİYE BİYOLOGLAR DERNEĞİ VE BİYOSİDAL İŞ VE ÇEVRE SAĞLIĞI DERNEĞİ KATKILARIYLA



BİYOSİDAL İŞ VE ÇEVRE SAĞLIĞI DERNEĞİ

Webinar Programs



Bu proje Avrupa Birliği tarafından finanse edilmektedir.
This project is funded by the European Union.

#ZEHİRSİZKENTLER

birlikte mümkün

23 Mayıs 2022
Pazartesi
19.00 - 20.30

WEBINAR
ZOOM

Pestisitler ve Halk Sağlığı

KONUŞMACILAR:

- Uzm. Dr. Burak Kurt
(BİYOSİDER Yönetim Kurulu Üyesi)
- Batur Şehirlioğlu
(Buğday Derneği Genel Müdürü)

MODERATÖR:

- Prof. Dr. Muhsin Akbaba
(BİYOSİDER Yönetim Kurulu Başkanı)





**zehirless
kentler**

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change.org/zehirsizkentler

zehirsizkentler.org



CFCEU



Buğday



ULUSAL TOPLUM PİYASASI



Pesticide
Action
Network



EUROPEAN UNION

OUR FIELD WORKS

Current Situation in Dealers Selling Pesticide Products (Adana-2015)

- It was conducted by face-to-face interviews with 50 pesticide sellers.
- 34% of the sellers do not follow legal developments.
- 53.1% do not participate in training programs.
- 56.2% do not use protective materials.
- 6% are exposed to the negative health effects of pesticides.
- 10.2% do not read the ingredients of the drugs they sell.
- 18.4% do not inform consumers.
- 88% state that there is no conscious use and there are too many unlicensed products on the market.

*Ersin Nazlıcan, Necdet Aytaç, Hakan Demirhindi, Ramazan Azim Okyay, Hüseyin İlder. Knowledge, Attitude and Behavior of Dealers Selling Pesticide Products in Adana Province. 2nd International Biocidal Congress, Antalya, 9-13 November 2015.

Current Situation in Dealers Selling Pesticide Products (Osmaniye-Ceyhan-Tarsus 2015)

- It was conducted by face-to-face interviews with 51 pesticide sellers.
- 17.6% of the sellers do not follow legal developments. 33.3% do not participate in training programs.
- 68.6% do not use protective equipment.
- 9.8% are exposed to the negative health effects of pesticides.
- 3.9% do not inform consumers.
- 43.1% do not know the national poison information center number (114-UZEM).

*Özgür Ersoy, Ersin Nazlıcan, Mehmet Gökdeniz, Hüseyin İlter, Muhsin Akbaba. Knowledge, Attitudes and Behaviors of Pesticide Sellers. 2nd International Biocidal Congress, Antalya, 9-13 November 2015.

Pesticide Usage Habits of Households in Karataş District of Adana Province (2016)

- Of the 365 households included in the study, 327 (89.6%) had pesticides at home.
- Of these 327 households, 96.6% had insecticides, 14.1% had rodenticides, and 9.4% had herbicides.
- 51.4% stored pesticides in the kitchen, 19.3% in the bathroom, and 15.2% in the bedroom.
- 78.6% used pesticides in the kitchen, 56.3% in the bathroom, 55.7% in the toilet, and 51.1% in the bedroom.
- 15.9% of households stored pesticides in places accessible to children.
- 64.5% did not use any personal protection when applying pesticides.

*Kurt B, Akbaba M, Başarılı MK, Demirhindi H, Ötegen VR. Pesticide Usage Habits of Households in Karataş District of Adana Province. 3rd International Biocidal Congress, 22-25 November 2016, Antalya, Proceedings Book.

Pesticide Use in Agricultural Practices (Malatya-2016)

- It was applied to 113 people registered with the Chamber of Agriculture in Akçadağ district and trained within the scope of good agricultural practice.
- 74.3% of the practitioners do not use pesticides consciously.
- 57.5% see themselves at risk of drug poisoning.
- 61.1% do not get examined at regular intervals.
- 94.7% do not know the national poison information center number (114-UZEM).
- 69.9% think that there is no antidote for pesticides.

➤ Practitioners;

knowledge and education levels are inadequate.

periodic health examinations are low.

*Serdar Deniz, Muhsin Akbaba, Burak Kurt, Tufan Nayir, Mustafa Kemal Başaralı. Investigation of the Knowledge Levels of People Receiving Training on Good Agricultural Practices in Malatya Province on Pesticide Application. 3rd International Biocidal Congress, Antalya, 22-25 November 2016.

Investigation of Pesticide Residue and Acetylcholinesterase Enzyme Activity in Agricultural Workers in Ceyhan District of Adana Province (2018)

- 66 controls, 66 agricultural workers
- 95% of agricultural workers do not receive spraying training,
- 74% do not use any personal protective equipment,
- A total of 31 pesticide active substances were detected, at least one in the hair samples of 100% of agricultural workers,
- A total of 15 different pesticide active substances were detected in 94% of blood samples.

*Saliha ÇELİK, Cukurova University Faculty of Medicine Department of Public Health Specialization Thesis





Research on Chromosomal Disorders in Agricultural Workers in Ceyhan District of Adana Province (2018)

- 35 agricultural workers who applied pesticides and 40 volunteers who were not exposed to pesticides were taken as reference.
- Chromosomal abnormalities were significantly higher in agricultural workers than in the reference group,
- When examined in an age-adjusted manner, the risk of chromosomal disorders was found to be 2.3 times higher in pesticide applicators than in the reference group.

*Osman Demirhan, Muhsin Akbaba, Saliha Çelik, Nur Uslu, Nesrin Çetinel, Erdal Tunç

3rd International Occupational and Environmental Diseases Congress 3-7 March 2019 - Antalya



Current Situation in Dealers Selling Pesticide Products (Mersin-2018)

- It was applied to 121 pesticide sellers via face-to-face interview method.
- 38.8% of the sellers do not follow the legal developments.
- 62.8% see themselves at risk of drug poisoning.
- 12.4% are exposed to the negative health effects of pesticides.
- 22.3% do not know the national poison information center number (114-UZEM).16.5% do not know the first aid algorithm in poisoning.
- 13.2% do not inform consumers.
- 20% do not think that pesticides are harmful to human health.
- Sellers;

Product content, development tracking, end user information is inadequate.

* Onur Acar, Muhsin Akbaba, Volkan Recai Ötegen, Serdar Deniz. Evaluation of Knowledge, Attitudes and Behaviors Regarding Pesticides among Pesticide Sellers in Mersin Province. 4th International Biocidal Congress, Antalya, 25-29 March 2018.

Living Conditions, Access to Health Services and Occupational Health and Safety Conditions of Seasonal Agricultural Workers in the Çukurova Region (Adana-2018)

- The findings of the study show that seasonal migrant agricultural workers in Turkey have inadequate working conditions, wages, accommodation, nutrition opportunities, health conditions and occupational health and safety conditions.
- This inadequacy negatively affects the quality of life of the workers, their use of health services, and occupational health and safety.

*Öztaş D, Kurt B, Koç A, Akbaba M. Living Conditions, Access to Healthcare Services, and Occupational Health and Safety Conditions of Migrant Seasonal Agricultural Workers in the Çukurova Region. *Journal of Agromedicine*, 23:3, 262-269

Knowledge Level, Attitude and Behavior of Farmers in Çukurova Region Regarding Pesticide Use (Adana-2018)

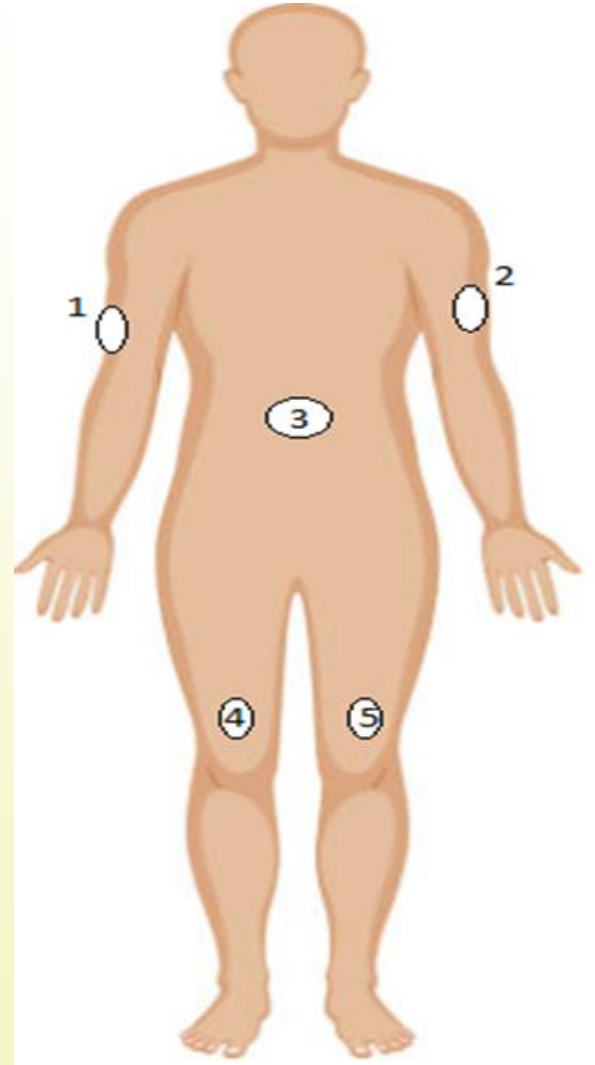
- In a study conducted on 420 seasonal agricultural workers in the Karataş district, it was determined that all workers used pesticides, but none of them received training,
- Only 26% of workers kept pesticides in a closed warehouse,
- Only 4% took used pesticide cans to special collection areas,
- 84% of workers knew that pesticides had negative effects on human health,
- 5% had a health problem related to pesticides,
- 1% had poisoning after pesticide application.

* Öztaş D, Kurt B, Koç A, Akbaba M, İlter H. Knowledge Level, Attitude, and Behaviors of Farmers in Çukurova Region regarding the Use of Pesticides. BioMed Research International Volume 2018, Article ID 6146509, 7 pages

Dermal Exposure Research in Active Pesticide Applicators Using the Patch Method (Adana-2019)

- 34 practitioners were included in the study.
- 11 types of pesticides were detected in the practitioners,
- Of these; It was seen that they were exposed to high levels of Chlorpyrifos,
- There is also a moderate risk for abamectin, buprofezin, difenoconazole and pyriproxyfen,
- Personal protective equipment level was accepted as none in 97.2% of the practitioners.

*Musa ŞAHİN, Cukurova University Faculty of Medicine Department of Public Health Specialization Thesis



PROJECTS WE HAVE CONSULTED ON

Pesticide Free Towns Project (2021)



Bu proje Avrupa Birliđi tarafından finanse edilmektedir.
This project is funded by the European Union.

- Our association provided consultancy services for the **Pesticide Free Towns** project of the Buđday Association, supported by the European PAN (Pesticide Action Network).

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birlikte mümkün

Zehirsiz Kentler Kampanyası başladı.

Belediyeleri sađlıklı bir gelecek için sorumluluk almaya çağırıyoruz.
Tüm canlılara zarar veren pestisitlerin ve biyosidal ürünlerin kullanımı sonlandırılınsın.


Zehirsiz kentler

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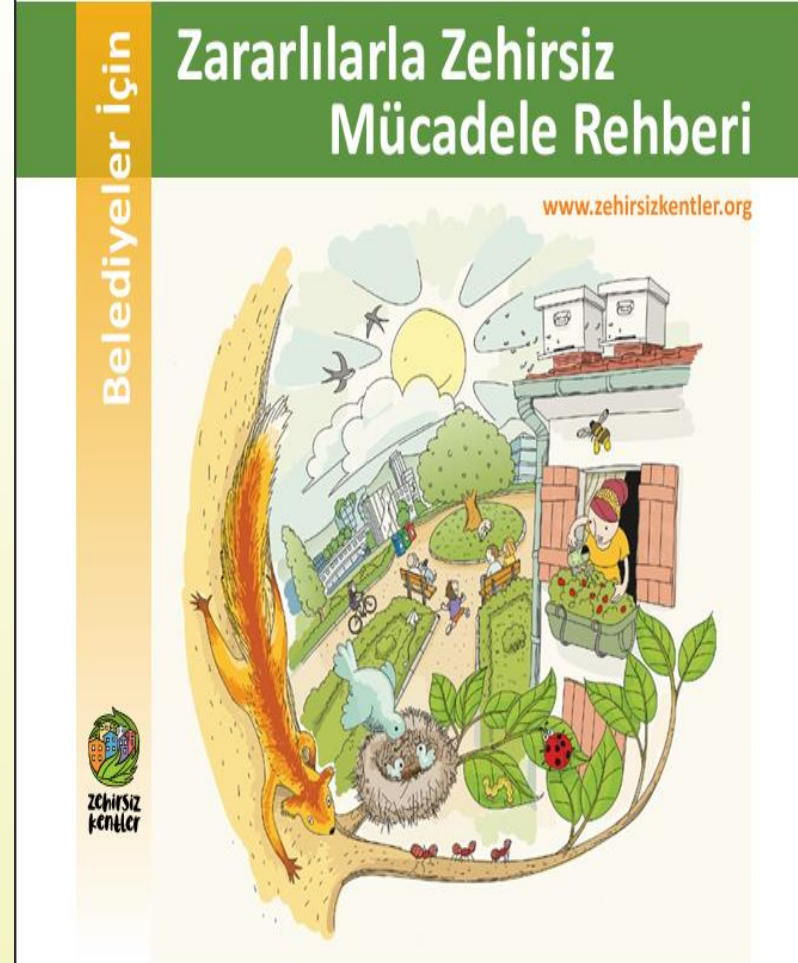
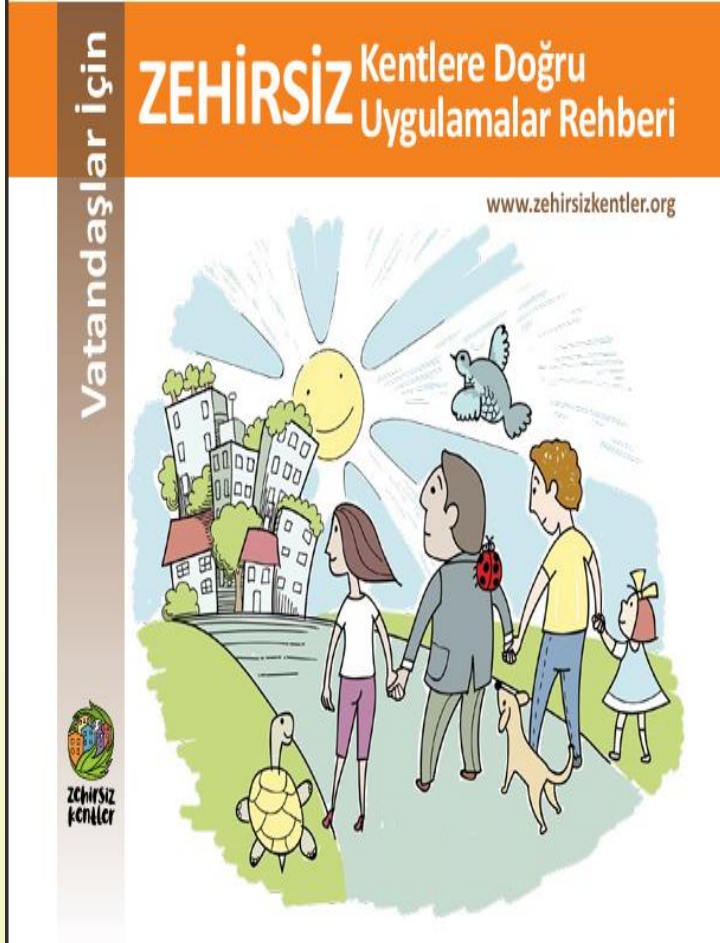
zehirsizkentler.org



Pesticide Free Towns Project (2021)



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Sivil Toplum Diyaloğu VI Zehirsiz Kentlere Doğru Projesi



ZEHİRSİZ
KENTLER

Türkiye'deki Belediyelerde Zararlı Mücadelesi Durum Analizi Raporu

Buğday Ekolojik Yaşamı Destekleme Derneği
&
Avrupa Pestisit Eylem Ağı

Ekim 2021



Pesticide Free Towns Project (2021)



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Training on Diagnosis and Treatment of Pesticide Poisoning for Healthcare Professionals and Introduction of Poison Centre Concept in Kazakhstan, Kyrgyzstan and Tajikistan (2024)



Food and Agriculture
Organization of the
United Nations

- The results of studies in Kazakhstan, Kyrgyzstan and Tajikistan indicate that farmers in these countries are exposed to significant amounts of pesticides and health personnel are not adequately trained to treat pesticide poisoning.
- A series of trainings on ‘Treatment and response to pesticide poisoning for health workers’ was organised in Kazakhstan, Kyrgyzstan and Tajikistan in November-December 2024 in cooperation with FAO Central Asia Office and BIYOSİDER.

Training on Diagnosis and Treatment of Pesticide Poisoning for Healthcare Professionals and Introduction of Poison Centre Concept in Kazakhstan, Kyrgyzstan and Tajikistan (2024)



Food and Agriculture
Organization of the
United Nations

- The training was given by experts from BIYOSİDER in order to inform health personnel about the effects of pesticides and their species on human and environmental health, to increase the awareness of users and the public, to prevent possible deaths and disabilities, to develop treatment approaches and to provide guidance for the establishment of poison centres.
- A total of 60 Kazakh, 60 Kyrgyz and 30 Tajik health personnel from Kazakhstan, Kyrgyzstan and Tajikistan participated in the seminar where both theoretical and practical trainings were given.

Training on Diagnosis and Treatment of Pesticide Poisoning for Healthcare Professionals and Introduction of Poison Centre Concept in Kazakhstan, Kyrgyzstan and Tajikistan (2024)



Food and Agriculture Organization of the United Nations



Kazakhstan/Almaty



Kazakhstan/Astana

Training on Diagnosis and Treatment of Pesticide Poisoning for Healthcare Professionals and Introduction of Poison Centre Concept in Kazakhstan, Kyrgyzstan and Tajikistan (2024)



Food and Agriculture Organization of the United Nations



Tajikistan/Bokhtar

Training on Diagnosis and Treatment of Pesticide Poisoning for Healthcare Professionals and Introduction of Poison Centre Concept in Kazakhstan, Kyrgyzstan and Tajikistan (2024)



Food and Agriculture Organization of the United Nations



Kyrgyzstan/Bishkek



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