

**Pediatric Immunology and Allergy Center
at Marmara University**

**Institutional Introduction Document
Organizational Structure**



1. About Us

Marmara University Faculty of Medicine's Division of Pediatric Immunology and Allergy was founded by Prof. Dr. Müjdat Başaran, and subsequently led by Prof. Dr. Işıl Barlan and her team. Today, the division continues its activities with four faculty members: Prof. Dr. Ahmet Oğuzhan Özen, Prof. Dr. Elif Karakoç Aydın, Prof. Dr. Safa Barış, and Dr. Öğr. Üyesi Sevgi Bilgiç Eltan. The division coordinates education, research, and healthcare services in the field of immune system and allergic diseases in children.

To date, the division has graduated more than 25 pediatric immunology and allergy subspecialists, and currently six subspecialty fellows are in training. Additionally, Master's and Doctoral programs in Pediatric Allergy and Immunology are being conducted.

Our division stands out for groundbreaking diagnostic and therapeutic approaches in immunological diseases and for high-impact translational research published in prestigious journals and presented at international conferences. Our academicians have received many distinguished awards, including:

- TÜSEB Aziz Sancar Young Scientist Award (Prof. Dr. Safa Barış)
- Federation of European Immunological Societies (EFIS) Outstanding Publication Award (Prof. Dr. Ahmet Oğuzhan Özen)
- TÜSEB Aziz Sancar Service Award (Prof. Dr. Ahmet Oğuzhan Özen)
- Prof. Dr. Işıl Berat Barlan Primary Immunodeficiency Research Award (Prof. Dr. Elif Karakoç Aydın, Prof. Dr. Safa Barış)
- Council of Higher Education "International Collaboration Outstanding Achievement Award" (awarded under the leadership of our discipline)

Our division is currently carrying out numerous R&D projects and Phase 2–3 clinical drug trials supported by major grants from TÜBİTAK, TÜSEB, the European Union, QNRF (Qatar), and the NIH (USA). Education and research activities are conducted under the umbrella of the Jeffrey Modell Diagnostic Center İstanbul Marmara, the Immunodeficiency Practice and Research Center, and the Işıl Barlan Translational Medicine Center. As of January 2024, our center has adopted the name "The Işıl Berat Barlan Academia (IBBAcademia)" to collectively represent all units performing education, research, and clinical services.

Contact information:

- S.B. Marmara University Pendik Training and Research Hospital, Pediatric Immunology and Allergy Division, Immunology and Allergy Clinic, Marmara University Işıl Barlan Translational Medicine Research Center, Fevzi Çakmak, Muhsin Yazıcıoğlu Cd. No:10, 34899 Pendik/İstanbul, Türkiye. Tel: +90 216 625 9096
- S.B. Marmara University Pendik Training and Research Hospital Prof. Dr. Asaf Ataseven Annex, Pediatric Immunology and Allergy Clinic, Aydınevler, Başbüyük-Samandıra Yolu, 34854 Maltepe/İstanbul, Türkiye. Tel: +90 216 606 1141
- Marmara University School of Medicine, Department of Immunology, Başbüyük Mah. Maltepe Başbüyük Yolu Sok. No:9/2, Maltepe-İstanbul 34854, Türkiye. Tel: +90 216 777 5517

Instagram and LinkedIn social media accounts: **@IBBAcademia**

2. Vision

To become a pioneering education, research, and clinical care center that leads scientific advancements in pediatric immunology and allergy, strives for excellence in patient care, and creates a global impact.

3. Mission

To train competent pediatric immunology and allergy specialist physicians and scientists who adhere to ethical values, embrace collaboration, focus on research, continuously self-improve, and adopt lifelong learning principles.

4. Purpose of the Center

The purpose of the **Marmara University Pediatric Immunology and Allergy Center** is to ensure excellence in patient care, conduct leading clinical and translational research, and offer high-quality educational programs. The Center aims to improve the quality of life for individuals with allergic and immunological diseases by providing evidence-based curative and/or palliative treatments, pioneering innovative research, and conducting undergraduate, post-graduate (Master's and PhD), primary specialty, and subspecialty training programs.

5. Strategic Plan (2025–2030)

5.1. Health Service Delivery

- Increase access to comprehensive diagnostic and therapeutic services for immunodeficiency and allergic diseases.
- Implement patient-centered care approaches in line with international standards.
- Conduct Phase 2–3 clinical drug trials to offer targeted therapies to patients.

5.2. Education

- Provide structured educational programs for medical students, primary specialty residents, subspecialty fellows, and Master's/PhD students.
- Organize lifelong learning and continuing post-graduate education activities such as masterclasses, courses, and multicenter interdisciplinary case councils every two months, to foster continuous learning.

5.3. Research

- Promote translational research by encouraging collaboration between clinicians and basic scientists in allergy and immunology.
- Encourage multicenter, multidisciplinary, and international clinical studies in allergic and immunologic diseases.
- Conduct Phase 2–3 clinical drug trials in our translational medicine center.
- Increase the number of publications in high-impact journals through nationally and internationally funded projects.

5.4. Social Responsibility

- Serve as external consultants to patient advocacy organizations.

- Participate in patient education initiatives.
- Undertake disease-specific awareness campaigns.
- Strengthen the communication network with alumni.

6. Staff

6.1. Our Educators

The academic staff of Marmara University School of Medicine and the Institute of Health Sciences is responsible for educating medical students, PhD and MSc students in Pediatric Allergy and Immunology, residents in Pediatrics, and fellows in Pediatric Immunology and Allergy. They also lecture at other institutions when invited. In post-graduate education, they serve as organizers and instructors in national and international society training programs, contributing to textbooks, guidelines, articles, publications, masterclasses, workshops, and press releases. In addition, our physicians provide consultation and training for educational programs planned and conducted by our allied health personnel and patients.

- **Prof. Dr. Ahmet Oğuzhan Özen, MD:** Head of Pediatric Immunology and Allergy Division; Director of Işıl Barlan Translational Medicine Center; Director of Jeffrey Modell Marmara Istanbul Center; Coordinator of Pediatric Allergy and Immunology PhD and MSc Programs; Member of MENAT PINI Registry Committee; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: ahmet.ozen – Marmara University
- **Prof. Dr. Elif Karakoç Aydiner, MD:** Director of Marmara University Immunodeficiency Practice and Research Center; Board Member of Işıl Barlan Translational Medicine Center; Member of Marmara University Clinical Research Ethics Committee; Quality Unit Coordinator of Marmara University Department of Pediatrics; Board Member of Immunodeficiency Patient Society; Board Member of Turkish Immunology Society; Member of EAACI (European Academy of Allergy & Clinical Immunology) Primary Immunodeficiency Working Group; Member of Turkish Pediatrics Qualification Board Measurement and Evaluation Committee; Co-chair of Turkish Pediatric Allergy, Immunology & Asthma Society's Pediatric Clinical Immunology Working Group; Member of MENA PINI Registry Committee; Specialist in Pediatrics and Pediatric Immunology & Allergy; PhD student in Medical Education (English) at Acibadem University Institute of Health Sciences.
Profile: elif.aydiner – Marmara University
- **Prof. Dr. Safa Barış, MD:** Board Member of Marmara University Immunodeficiency Practice and Research Center; Member of the World Allergy Organization (WAO) Immunodeficiency Working Group; Member of the European Society for Immunodeficiencies (ESID) Clinical Working Party; Board Member of Işıl Barlan Translational Medicine Center; Member of MENA ICID Registry Committee; Board Member of Immunodeficiency Patient Society; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: sbaris – Marmara University
- **Dr. Öğr. Üyesi (Asst. Prof.) Sevgi Bilgiç Eltan, MD:** Board Member of Marmara University Immunodeficiency Practice and Research Center; Member of Turkish Pediatric Allergy, Immunology & Asthma Society's Pediatric Clinical Immunology Working Group; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: 15061 – Marmara University

- **Prof. Dr. Tunç Akkoç, PhD:** Head of Department of Immunology; Board Member of the Stem Cell and Cellular Therapies Society; (Contributing Immunology Faculty for Pediatric Immunology and Allergy).
Profile: tuncakkoc – Marmara University

6.2. Our Physicians

Our attending specialist physicians provide clinical care in pediatric and adult immunology and allergy, and actively participate in patient education, research, training of students, as well as the education of primary specialty and subspecialty trainees and health personnel.

- **Uzm. Dr. Melek Yorğun Altunbaş, MD:** Pediatrician (Child Health and Diseases Specialist) and Pediatric Immunology & Allergy Specialist.
Profile: Hospital Physicians – Marmara University Pendik Hospital
- **Uzm. Dr. Esra Karabiber, MD:** Pulmonologist (Chest Diseases Specialist) and Immunology & Allergy Specialist.
Profile: Hospital Physicians – Marmara University Pendik Hospital

6.3. Our Subspecialty Fellows (Yandal Uzmanlık Öğrencilerimiz)

Our subspecialty fellowship trainees are actively involved in clinical observation, patient management, research, and educational activities. Through structured rotations and evaluation systems during their three-year training, they gain the competencies required for subspecialty practice.

- Dr. Salim Can
- Dr. Razin Amirov
- Dr. Necmiye Keser Öztürk
- Dr. Selcen Bozkurt
- Dr. Burak Çağan Çolak
- Dr. Ramin Mahmudov

6.4. Our Master's Students

Our Master's students receive education focusing on the basic science aspects of immunology and allergic diseases and carry out thesis research. They also take active roles in research projects, contributing to scientific studies and publications.

- Gülperi Bolatkale
- Elif Süer

6.5. Our Doctoral Students

Our PhD students conduct scientific research and also contribute to educational activities and interdisciplinary projects. By participating in national and international projects carried out at our center, they further develop their research capacities.

- Feyza Bayram Çatak
- Cihangir Çatak

- Senem Kılıç
- Zeynep Tunca
- Alper Bulutoğlu
- Burak Demirkaya
- Melike Oyuncakçı

6.6. Our Technicians

Our technicians ensure that laboratory services are carried out regularly, safely, and effectively, and they provide technical support for research projects.

- Dilek Başer (MSc)
- Gamze Akgün

6.7. Our Nurses

Our nurses play an active role in outpatient, inpatient, and day-case patient care processes; they are involved in administering treatments, patient education, and follow-up. They also participate in educational and quality improvement activities.

- Esra Nur Akbaş
- Fatma Özyar
- Duygu Şirin
- Gülbahar Bağcı
- Songül Ünal

6.8. Our Data Entry Personnel

Our data entry staff ensure that patient records are maintained up-to-date, complete, and systematically. They handle the digital entry and management of medical data.

- Arzu Sebik
- Selda Bekpınar

7. Our Alumni

7.1. Pediatric Immunology and Allergy Specialists

List of graduates who completed the pediatric immunology and allergy subspecialty program (Pediatric Immunology and Allergy specialists):

- Dr. Işıl Berat Barlan
- Dr. Nerin Bahçeciler
- Dr. Mustafa Bakır
- Dr. Yonca Nuhoğlu
- Dr. Atilla Nursoy

- Dr. Metin Aydoğan
- Dr. Ercan Küçükosmanoğlu
- Dr. Recep Sancak
- Dr. Cevdet Özdemir
- Dr. Sevgi Keleş
- Dr. Elif Karakoç Aydın
- Dr. Safa Barış
- Dr. Ayça Kıyıkım
- Dr. Hasret Çağan
- Dr. Ercan Nain
- Dr. Nurhan Kasap
- Dr. Burcu Kocamış Kolukisa
- Dr. Asena Pınar Sefer Arınç
- Dr. Ezgi Yalçın Güngören
- Dr. Melek Yorgun Altunbaş

7.2. Pediatric Residency Program Thesis Students

Pediatric residents who completed thesis research under our division (as part of their Child Health and Diseases residency):

- Dr. Emel Uyar
- Dr. Ezgi Gizem Yüce Onat
- Dr. Melissa Kaçmaz
- Dr. Özge Besci
- Dr. Ezgi Barış
- Dr. Gulnar Najafova
- Dr. Şeydanur Kurban
- Dr. Seray Apaydın

7.3. Master's Program Graduates

Graduates of our Master's (MSc) program in Pediatric Allergy and Immunology:

- Dilek Başer
- Cihangir Çatak
- Feyza Bayram Çatak

- Alper Bulutoğlu
- Bengü Akçan
- Yazgül Duran
- Gizem Hançer
- Gülben Gürhan
- Selin Yıldırım
- Nur Ecem Öztop
- Muazzez Gökalp
- Ülkü Arıç

7.4. Doctoral Program Graduates

Graduates of our PhD program in Pediatric Allergy and Immunology:

- Faruk Tükenmez
- Tunç Akkoç
- Noushin Zibandeh
- Deniz Genç
- İsmail Ögülür

7.5. Rotating Trainees (Rotasyonelerimiz)

Pediatric immunology and allergy fellows from various universities or training hospitals who have come to our center for a rotation (minimum 3 months) to enhance their clinical experience and knowledge. During their rotation, they participate in inpatient, outpatient, and day-case treatment services, follow our educational program, and work in diagnostic and research laboratories. They may also join research projects and are expected to present cases and contribute to multidisciplinary case councils. These rotations are officially arranged through the Ministry of Health, with up to two rotators accepted at a time. At the end of the rotation, in addition to formal evaluation forms, rotators prepare a portfolio which is signed by our education coordinator and delivered to their home institution.

- Dr. Ahmet Özen
- Dr. Hülya Ercan Sarıçoban
- Dr. Zeynep Güleç Köksal
- Dr. Leman Tuba Karakurt
- Dr. Hayrunnisa Bekiş
- Dr. Halime Ermiştekin
- Dr. Aysu İlhan
- Dr. İsmail Ozanlı
- Dr. Nefise Uluç

- Dr. Nilay Çalışkan
- Dr. Nagihan İskender
- Dr. Muhammet Kaya
- Dr. Hamit Bologur
- Dr. Güler Yıldırım
- Dr. Pınar Yağmur Altınkaynak
- Dr. Sinem Aslan

(The above list includes recent rotators; earlier names are listed in alumni where applicable.)

8. Clinical Practice Infrastructure and Processes

Healthcare Delivery: Clinical services are provided at the Ministry of Health Marmara University Pendik Training and Research Hospital (tertiary care center) and the Prof. Dr. Asaf Ataseven Annex (secondary care center). Our center has 7 designated inpatient beds, 5 pediatric and 1 adult outpatient clinics, day treatment units for both adults and children with appointment-based therapy, 2 allergy laboratories serving children and 1 serving adults (staffed by 4 nurses), an immunology laboratory (staffed by 3 technical personnel), and 2 data entry staff. Patient care services are delivered by our physicians and consultants. We provide uninterrupted outpatient services from 9:00 to 16:00 every weekday (except Wednesday 9–12 which is reserved for education). Additionally, a 24/7 on-call physician is assigned to support subspecialty patient care and main residency training.

Outpatient care is by appointment (26 appointments per day per clinic). For emergencies, our emergency departments are open 24/7; patients are directed there and are seen in consultation by our team. Per Ministry of Health regulations, about 50% of our appointments are booked via the central referral system (patients referred from secondary to tertiary care by a physician), while the remaining 50% are managed by our data entry staff according to our physicians' directives for long-term follow-up patients.

When planning service delivery, we also incorporate the training needs of monthly rotating primary specialty (pediatrics) residents and subspecialty fellows, to ensure learning objectives are met in accordance with their core curricula. Each week, all outpatient clinics have two attending specialists and/or one rotating faculty consultant, as well as an on-call consultant assigned. Under the supervision of these educators, one physician is responsible for inpatient care and consultations. One physician is assigned to each of the six outpatient clinics daily. Additionally, the most senior fellow is tasked with overseeing research protocols, managing referred and priority patients, emergencies, the day treatment unit, and allergen challenge tests. Rotating residents are required to participate actively in service delivery under supervision.

For **transition of care from pediatric to adult services**, a transfer summary is prepared for each patient, and cases are discussed among physicians during the Wednesday education meeting before transferring the patient file to adult services. The patient and family are informed jointly as part of the transition process.

During **Wednesday educational sessions**, case council meetings are organized, which when necessary are multidisciplinary and/or multicenter. Often, specialists from pediatric infectious diseases, hematology, oncology, pulmonology, neurology, dermatology, radiology, pathology, and surgery are invited to participate. Cases discussed and decisions made are recorded in a council logbook and signed by participating physicians. Afterwards, a family meeting is held to inform the patient's family, and on the same day a note of the decisions and that the family was informed is entered into the hospital's electronic medical record.

Every two weeks on Thursdays, we hold a one-hour **Hematopoietic Stem Cell Transplantation (HSCT) council**. Prior to these meetings, our team prepares a transplant summary (epicrisis) for each patient, and patients are evaluated in consultation with the hematology and infectious diseases departments. Patients who have completed HLA typing of family donors are added to the agenda. The meeting agenda is announced at least two days in advance. When necessary, the patient and/or family are invited for a family meeting after the council. All these processes are documented in the council logbook, and at the end of the meeting, signatures are obtained from participating physicians and, when applicable, from the patient/family to acknowledge they have been informed.

Every two months, we conduct a **severe asthma multidisciplinary council** with pediatric pulmonology to co-manage patients with severe or difficult-to-control asthma. Prior to the meeting, patients to be discussed are scheduled for clinic appointments on the same day and evaluated jointly by both specialties. The agenda is announced at least two days beforehand. A subspecialty fellow, under an attending's supervision, is assigned to present cases. If needed, the patient and/or family is invited for a meeting after the council. All discussions are recorded in the council logbook, and at the end, participant physicians and, if needed, the patient/family provide signatures confirming they were informed.

Starting in January 2025, **Mortality and Morbidity (M&M) meetings** are being held regularly every 3 months to improve education and service quality. These meetings are scheduled during the Wednesday education time, announced in advance, and relevant departments are invited. Proceedings are recorded in the council book and improvement strategies are documented by participants.

In summary, in our center a wide range of diseases – such as immunodeficiencies, asthma, allergic rhinitis/conjunctivitis, atopic dermatitis, food allergies, drug allergies, chronic urticaria, angioedema, and anaphylaxis – are diagnosed, treated, and managed with educational support in our outpatient clinics and wards.

Tests and Services Offered in Our Clinic include:

- Allergy skin tests
- Pulmonary function tests

- Drug provocation tests
- Food provocation tests
- Allergen-specific immunotherapies
- Education on allergen avoidance, home management of acute asthma attacks, and proper inhaler and medication use
- Immunoglobulin replacement therapies (IgRT)
- Training for subcutaneous immunoglobulin therapy
- Education to recognize disease-specific emergency symptoms
- Training in the use of epinephrine auto-injectors
- Education on reading food labels and checking food contents
- Day-case treatments in the outpatient infusion unit

(The above services are provided according to each patient's needs and current medical guidelines.)

9. Educational Infrastructure and Programs

Marmara University hosts multiple training programs within this discipline. The **Pediatric Immunology and Allergy Diseases Subspecialty Training Program** is conducted under the School of Medicine's Department of Pediatrics (which has national accreditation by the Turkish Medical Education Accreditation Board and the Pediatric Residency Accreditation from the Turkish Pediatric Association as of June 2021). The **Allergy-Immunology PhD Program** and the **Thesis Master's Program** are offered through the Institute of Health Sciences (accredited with the "Golden Quality Assurance in Postgraduate Health Education" label by the Higher Education Quality Board in January 2022). All programs are advanced academic programs structured on contemporary educational principles, focused on imparting scientific knowledge and professional competence.

Pediatric Immunology and Allergy Subspecialty Training – This fellowship program lasts three years and encompasses structured theoretical education, hands-on clinical experience, and independent research. Entrance is through a national centralized exam and placement system for specialists in pediatrics. During training, a variety of educational activities – structured seminars, case and journal clubs, multidisciplinary case councils, and mortality-morbidity meetings – foster growth in medical knowledge as well as professional attitudes and behaviors. In practical training, fellows actively manage inpatient and outpatient care, immunotherapy administration, provocation testing, and day-case treatments. The curriculum emphasizes core competencies such as communication, leadership, professionalism, ethical decision-making, research planning, and patient safety. Detailed information and the extended core curriculum are available on the department's website (via the School of Medicine academic departments page).

PhD Program in Pediatric Health and Diseases (Allergy-Immunology) – This doctoral program aims to instill scientific research competency by integrating advanced theoretical knowledge with laboratory practice. Through courses like "Clinical Immunology Molecular Techniques" and "Stem Cell and Immune System Interaction," students are guided toward basic research connected to clinical

applications. The program supports academic development with activities such as journal clubs, scientific presentations, independent research, and participation in ethics committees. (Physicians are not admitted to this PhD program.) Admission requirements, announcements, curriculum, and course details can be accessed via the Institute's program information web page.

Thesis Master's Program in Pediatric Health and Diseases (Allergy-Immunology) – This MSc program aims to provide students with fundamental clinical knowledge in child health, research methodologies, and scientific presentation skills. Students actively participate in research projects and improve their ability to generate and interpret scientific data through thesis work. (Physicians are not admitted to this Master's program.) Admission criteria, announcements, curriculum, and course information are available on the Institute's program web page.

In terms of **educational infrastructure**, Marmara University offers high-level facilities such as allergy and immunology diagnostic laboratories, a respiratory function laboratory, an immunotherapy unit, advanced molecular testing infrastructure (flow cytometry, ELISA, PCR), electronic patient record systems, and a stem cell transplant center. With the support of the translational medicine center, advanced research projects are carried out and there is active participation in national and international congresses.

These programs align with our university's vision based on national qualifications, ethical values, and lifelong learning, with the aim of training health professionals who possess high clinical competence, developed research skills, and a strong sense of ethical responsibility.

10. Research Infrastructure and Publications

Marmara University's **Translational Medicine Clinical Practice and Research Center** and **Immunodeficiency Practice and Research Center** provide a robust research ecosystem structured on contemporary scientific approaches. Both centers function as entities that integrate the university's research vision with clinical practice and support advanced interdisciplinary collaborations. In line with the university's strategic plan, both centers pursue a mission of increasing scientific research productivity, facilitating access to national and international funding, and yielding high-impact publications.

The Translational Medicine Clinical Practice and Research Center – Located on the Marmara University Pendik Training and Research Hospital campus, this center boasts a modern infrastructure capable of hosting observational and interventional clinical studies, including phase trials. It provides an environment encompassing all stages of translational research from bench to bedside. The center conducts innovative projects in areas such as biomarker development, personalized medicine, and industry-partnered research. It also houses research infrastructure like a biobank, databases, research laboratories, and training/certification programs. By supporting collaborative projects and researcher exchange programs nationally and internationally, the center enhances academic productivity and capacity building. Prof. Dr. Ahmet Özen currently serves as the center's director. (Detailed information is available on the center's webpage on the university site.)

Board of Directors of the Translational Medicine Center:

1. Prof. Dr. Elif Karakoç Aydın
2. Prof. Dr. Safa Barış
3. Prof. Dr. Tunç Akkoç
4. Dr. Ömer Doğru
5. Dr. Mehmet Burak Aksu
6. Dr. Saime Batrel
7. Dr. İbrahim Gökçe
8. Dr. Can Erzik

The Immunodeficiency Practice and Research Center – This is a specialized research platform focusing on congenital disorders of the immune system. It is structured to support multifaceted research (clinical, laboratory, and genetic) in primary immunodeficiencies, which are considered rare diseases. Prof. Dr. Elif Karakoç Aydın currently serves as the center's director. Research activities integrated into diagnosis, monitoring, and treatment include establishing clinical cohorts, patient registry systems, performing genetic analyses, and participating in international data sharing. The center also shares advanced laboratory infrastructure, multidisciplinary consultation mechanisms, and its qualified academic staff with the Translational Medicine Center. (Detailed information is available on the center's page on the university website.)

Board of Directors of the Immunodeficiency Center:

1. Prof. Dr. Ahmet Oğuzhan Özen
2. Prof. Dr. Safa Barış
3. Prof. Dr. Tunç Akkoç
4. Asst. Prof. Sevgi Bilgiç Eltan
5. Asst. Prof. Nurşah Eker

The **Department of Immunology**, established in 2012 within Marmara University School of Medicine, is a scientific unit with a well-equipped academic and technical staff that conducts integrated basic and clinical immunology education and research. The department is supported by laboratories for Basic Immunology, Molecular Immunology, Cell Culture, and Flow Cytometry, and is equipped with advanced technology such as PCR and flow cytometry devices, providing an effective infrastructure for student training and interdisciplinary research. Undergraduate and graduate courses cover a broad range of theoretical and practical topics from immune system physiology to immunological techniques, and from autoimmune diseases to immunotherapies, training students in close integration with clinical sciences. (The Department's webpage, updated by Chair Prof. Dr. Tunç Akkoç, can be accessed at its designated URL.)

10.1. Projects:

(Not listed in this document; ongoing projects are described under research activities.)

10.2. Publications (Last 5 Years):

1. Yorgun Altunbaş M, Kogler H, Abolhassani H, Akkuş E, Baştürk A, Akkelle E, Sayar E, Polat E, Kara A, Can S, Frohne A, Segarra-Roca A, Jimenez-Heredia R, Babayeva R, Sefer AP, Kıyıkım A, Bilgic Eltan S, Karakoç-Aydiner E, Ozen A, Beşer OF, Boztug K, Rezaei N, Baris S. **Clinical, Immunological Prognostic Factors and Novel Variants in Large Cohort of DGAT1 Deficiency.** *J Allergy Clin Immunol Pract.* 2025 Mar 26:S2213-2198(25)00277-6. doi: 10.1016/j.jaip.2025.03.026. Epub ahead of print. PMID: 40154740.
2. Bayram Çatak F, Çatak MC, Babayeva R, Toubia J, Warnock NI, Çelmeli F, Hafizoğlu D, Yakıcı N, Kayaoğlu B, Sürücü N, Yalçın Güngören E, Can S, Yorgun Altunbaş M, Karakuş İS, Kıyıkım A, Orhan F, Bilgiç Eltan S, Karakoç-Aydiner E, Ozen A, Erman B, Gürsel M, Kok CH, Cildir G, Baris S. **Ruxolitinib treatment ameliorates clinical, immunologic, and transcriptomic aberrations in patients with STAT3 gain-of-function disease.** *J Allergy Clin Immunol.* 2025 Mar;155(3):784-791. doi: 10.1016/j.jaci.2024.11.032. Epub 2024 Dec 2. PMID: 39631446.
3. Canızci Erdemli P, Öcal Demir S, Bozkurt S, Aslan Tuncay S, Yılmaz S, Parlak B, Dizi Işık A, Büyüktaş Aytaç D, Abacı Çapar MÇ, Ergenç Z, Atalay AS, Gökçe İ, Karakoç-Aydiner E, Özen A, Kepenekli E, Akkoç G. **Listeria Meningitis as an Indication of Undiagnosed Primary Immune Deficiency, Activated Phosphoinositide 3-Kinase Delta Syndrome: A Case Report.** *Pediatr Infect Dis J.* 2025 Jan 30. doi: 10.1097/INF.0000000000004737. Epub ahead of print. PMID: 39889727.
4. Bosticardo M, Dobbs K, Delmonte OM, Martins AJ, Pala F, Kawai T, Kenney H, Magro G, Rosen LB, Yamazaki Y, Yu HH, Calzoni E, Lee YN, Liu C, Stoddard J, Niemela J, Fink D, Castagnoli R, Ramba M, Cheng A, Riley D, Oikonomou V, Shaw E, Belaid B, Keles S, Al-Herz W, Cancrini C, Cifaldi C, Baris S, Sharapova S, Schuetz C, Gennery AR, Freeman AF, Somech R, Choo S, Giliani SC, Güngör T, Drozdov D, Meyts I, Moshous D, Neven B, Abraham RS, El-Marsafy A, Kanariou M, King A, Licciardi F, Cruz-Muñoz ME, Palma P, Poli C, Adeli M, Algeri M, Alroqi FJ, Bastard P, Bergerson JRE, Booth C, Brett A, Burns SO, Butte MJ, Padem N, de la Morena M, Dbaibo G, de Ravin SS, Dimitrova D, Djidjik R, Dorna MB, Dutmer CM, Elfeky R, Facchetti F, Fuleihan RL, Geha RS, Gonzalez-Granado LI, Haljasmägi L, Ale H, Hayward A, Hifanova AM, Ip W, Kaplan B, Kapoor N, Karakoç-Aydiner E, Kärner J, Keller MD, Dávila Saldaña BJ, Kıyıkım A, Kuijpers TW, Kuznetsova EE, Latysheva EA, Leiding JW, Locatelli F, Alva-Lozada G, McCusker C, Çelmeli F, Morsheimer M, Ozen A, Parvaneh N, Pašić S, Plebani A, Preece K, Prockop S, Sakovich IS, Starkova EE, Torgerson T, Verbsky J, Walter JE, Ward B, Wisner EL, Draper D, Myint-Hpu K, Truong PM, Lionakis MS, Similuk MB; Centralized Sequencing Program Group; Walkiewicz MA, Klion A, Holland SM, Oguz C, Bogunovic D, Kisand K, Su HC, Tsang JS, Kuhns D, Villa A, Rosenzweig SD, Pittaluga S, Notarangelo LD; Centralized Sequencing Program Group. **Multiomics dissection of human RAG deficiency reveals distinctive patterns of immune dysregulation but a common inflammatory signature.** *Sci Immunol.* 2025 Jan 10;10(103):eadq1697. doi: 10.1126/sciimmunol.adq1697. Epub 2025 Jan 10. PMID: 39792639.
5. Güngören EY, Meriç Z, Sefer AP, Deveci Özkan A, Can S, Babayeva R, Kasap N, Nain E, Özek Yücel E, Kıyıkım A, Bilgic-Eltan S, Yücelten AD, Karakoç-Aydiner E, Ozen A, Baris S. **Beyond Dermatological Findings: Multisystem Involvement in Prolidase Deficiency.** *Turk Arch Pediatr.* 2025 Jan 2;60(1):48-56. doi: 10.5152/TurkArchPediatr.2025.24172. PMID: 39804022; PMCID: PMC11736867.
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Marmara University Pediatric Immunology and Allergy Center

Institutional Introduction Document – Organizational Structure

1. About Us

Marmara University Faculty of Medicine's Division of Pediatric Immunology and Allergy was founded by Prof. Dr. Müjdat Başaran, and subsequently led by Prof. Dr. Işıl Barlan and her team. Today, the division continues its activities with four faculty members: Prof. Dr. Ahmet Oğuzhan Özen, Prof. Dr. Elif Karakoç Aydın E, Prof. Dr. Safa Barış, and Dr. Öğr. Üyesi Sevgi Bilgiç Eltan. The division coordinates education, research, and healthcare services in the field of immune system and allergic diseases in children.

To date, the division has graduated more than 25 pediatric immunology and allergy subspecialists, and currently six subspecialty fellows are in training. Additionally, Master's and Doctoral programs in Pediatric Allergy and Immunology are being conducted.

Our division stands out for groundbreaking diagnostic and therapeutic approaches in immunological diseases and for high-impact translational research published in prestigious journals and presented at international conferences. Our academicians have received many distinguished awards, including:

- TÜSEB Aziz Sancar Young Scientist Award (Prof. Dr. Safa Barış)
- Federation of European Immunological Societies (EFIS) Outstanding Publication Award (Prof. Dr. Ahmet Oğuzhan Özen)

- TÜSEB Aziz Sancar Service Award (Prof. Dr. Ahmet Oğuzhan Özen)
- Prof. Dr. Işıl Berat Barlan Primary Immunodeficiency Research Award (Prof. Dr. Elif Karakoç Aydın, Prof. Dr. Safa Barış)
- Council of Higher Education “International Collaboration Outstanding Achievement Award” (awarded under the leadership of our discipline)

Our division is currently carrying out numerous R&D projects and Phase 2–3 clinical drug trials supported by major grants from TÜBİTAK, TÜSEB, the European Union, QNRF (Qatar), and the NIH (USA). Education and research activities are conducted under the umbrella of the Jeffrey Modell Diagnostic Center İstanbul Marmara, the Immunodeficiency Practice and Research Center, and the Işıl Berat Barlan Translational Medicine Center. As of January 2024, our center has adopted the name “The Işıl Berat Barlan Academia (IBBAcademia)” to collectively represent all units performing education, research, and clinical services.

Contact information:

- S.B. Marmara University Pendik Training and Research Hospital, Pediatric Immunology and Allergy Division, Immunology and Allergy Clinic, Marmara University Işıl Berat Barlan Translational Medicine Research Center, Fevzi Çakmak, Muhsin Yazıcıoğlu Cd. No:10, 34899 Pendik/İstanbul, Türkiye. Tel: +90 216 625 9096
- S.B. Marmara University Pendik Training and Research Hospital Prof. Dr. Asaf Ataseven Annex, Pediatric Immunology and Allergy Clinic, Aydınevler, Başibüyük-Samandıra Yolu, 34854 Maltepe/İstanbul, Türkiye. Tel: +90 216 606 1141
- Marmara University School of Medicine, Department of Immunology, Başibüyük Mah. Maltepe Başibüyük Yolu Sok. No:9/2, Maltepe–İstanbul 34854, Türkiye. Tel: +90 216 777 5517

Instagram and LinkedIn social media accounts: @IBBAcademia

2. Vision

To become a pioneering education, research, and clinical care center that leads scientific advancements in pediatric immunology and allergy, strives for excellence in patient care, and creates a global impact.

3. Mission

To train competent pediatric immunology and allergy specialist physicians and scientists who adhere to ethical values, embrace collaboration, focus on research, continuously self-improve, and adopt lifelong learning principles.

4. Purpose of the Center

The purpose of the **Marmara University Pediatric Immunology and Allergy Center** is to ensure excellence in patient care, conduct leading clinical and translational research, and offer high-quality educational programs. The Center aims to improve the quality of life for individuals with allergic and immunological diseases by providing evidence-based curative and/or palliative treatments, pioneering innovative research, and conducting undergraduate, post-graduate (Master’s and PhD), primary specialty, and subspecialty training programs.

5. Strategic Plan (2025–2030)

5.1. Health Service Delivery

- Increase access to comprehensive diagnostic and therapeutic services for immunodeficiency and allergic diseases.
- Implement patient-centered care approaches in line with international standards.
- Conduct Phase 2–3 clinical drug trials to offer targeted therapies to patients.

5.2. Education

- Provide structured educational programs for medical students, primary specialty residents, subspecialty fellows, and Master's/PhD students.
- Organize lifelong learning and continuing post-graduate education activities such as masterclasses, courses, and multicenter interdisciplinary case councils every two months, to foster continuous learning.

5.3. Research

- Promote translational research by encouraging collaboration between clinicians and basic scientists in allergy and immunology.
- Encourage multicenter, multidisciplinary, and international clinical studies in allergic and immunologic diseases.
- Conduct Phase 2–3 clinical drug trials in our translational medicine center.
- Increase the number of publications in high-impact journals through nationally and internationally funded projects.

5.4. Social Responsibility

- Serve as external consultants to patient advocacy organizations.
- Participate in patient education initiatives.
- Undertake disease-specific awareness campaigns.
- Strengthen the communication network with alumni.

6. Staff

6.1. Our Educators

The academic staff of Marmara University School of Medicine and the Institute of Health Sciences is responsible for educating medical students, PhD and MSc students in Pediatric Allergy and Immunology, residents in Pediatrics, and fellows in Pediatric Immunology and Allergy. They also lecture at other institutions when invited. In post-graduate education, they serve as organizers and instructors in national and international society training programs, contributing to textbooks, guidelines, articles, publications, masterclasses, workshops, and press releases. In addition, our physicians provide consultation and training for educational programs planned and conducted by our allied health personnel and patients.

- **Prof. Dr. Ahmet Oğuzhan Özen, MD:** Head of Pediatric Immunology and Allergy Division; Director of Işıl Barlan Translational Medicine Center; Director of Jeffrey Modell Marmara Istanbul Center; Coordinator of Pediatric Allergy and Immunology PhD and MSc Programs;

Member of MENAT PINI Registry Committee; Specialist in Pediatrics and Pediatric Immunology & Allergy.

Profile: ahmet.ozen – Marmara University

- **Prof. Dr. Elif Karakoç Aydiner, MD:** Director of Marmara University Immunodeficiency Practice and Research Center; Board Member of Işıl Barlan Translational Medicine Center; Member of Marmara University Clinical Research Ethics Committee; Quality Unit Coordinator of Marmara University Department of Pediatrics; Board Member of Immunodeficiency Patient Society; Board Member of Turkish Immunology Society; Member of EAACI (European Academy of Allergy & Clinical Immunology) Primary Immunodeficiency Working Group; Member of Turkish Pediatrics Qualification Board Measurement and Evaluation Committee; Co-chair of Turkish Pediatric Allergy, Immunology & Asthma Society's Pediatric Clinical Immunology Working Group; Member of MENA PINI Registry Committee; Specialist in Pediatrics and Pediatric Immunology & Allergy; PhD student in Medical Education (English) at Acibadem University Institute of Health Sciences.
Profile: elif.aydiner – Marmara University
- **Prof. Dr. Safa Barış, MD:** Board Member of Marmara University Immunodeficiency Practice and Research Center; Member of the World Allergy Organization (WAO) Immunodeficiency Working Group; Member of the European Society for Immunodeficiencies (ESID) Clinical Working Party; Board Member of Işıl Barlan Translational Medicine Center; Member of MENA ICID Registry Committee; Board Member of Immunodeficiency Patient Society; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: sbaris – Marmara University
- **Dr. Öğr. Üyesi (Asst. Prof.) Sevgi Bilgiç Eltan, MD:** Board Member of Marmara University Immunodeficiency Practice and Research Center; Member of Turkish Pediatric Allergy, Immunology & Asthma Society's Pediatric Clinical Immunology Working Group; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: 15061 – Marmara University
- **Prof. Dr. Tunç Akkoç, PhD:** Head of Department of Immunology; Board Member of the Stem Cell and Cellular Therapies Society; (Contributing Immunology Faculty for Pediatric Immunology and Allergy).
Profile: tuncakkoc – Marmara University

6.2. Our Physicians

Our attending specialist physicians provide clinical care in pediatric and adult immunology and allergy, and actively participate in patient education, research, training of students, as well as the education of primary specialty and subspecialty trainees and health personnel.

- **Uzm. Dr. Melek Yorğun Altunbaş, MD:** Pediatrician (Child Health and Diseases Specialist) and Pediatric Immunology & Allergy Specialist.
Profile: Hospital Physicians – Marmara University Pendik Hospital
- **Uzm. Dr. Esra Karabiber, MD:** Pulmonologist (Chest Diseases Specialist) and Immunology & Allergy Specialist.
Profile: Hospital Physicians – Marmara University Pendik Hospital

6.3. Our Subspecialty Fellows (Yandal Uzmanlık Öğrencilerimiz)

Our subspecialty fellowship trainees are actively involved in clinical observation, patient management, research, and educational activities. Through structured rotations and evaluation systems during their three-year training, they gain the competencies required for subspecialty practice.

- Dr. Salim Can
- Dr. Razin Amirov
- Dr. Necmiye Keser Öztürk
- Dr. Selcen Bozkurt
- Dr. Burkay Çağan Çolak
- Dr. Ramin Mahmudov

6.4. Our Master's Students

Our Master's students receive education focusing on the basic science aspects of immunology and allergic diseases and carry out thesis research. They also take active roles in research projects, contributing to scientific studies and publications.

- Gülperi Bolatkale
- Elif Süer

6.5. Our Doctoral Students

Our PhD students conduct scientific research and also contribute to educational activities and interdisciplinary projects. By participating in national and international projects carried out at our center, they further develop their research capacities.

- Feyza Bayram Çatak
- Cihangir Çatak
- Senem Kılıç
- Zeynep Tunca
- Alper Bulutoğlu
- Burak Demirkaya
- Melike Oyuncakçı

6.6. Our Technicians

Our technicians ensure that laboratory services are carried out regularly, safely, and effectively, and they provide technical support for research projects.

- Dilek Başer (MSc)
- Gamze Akgün

6.7. Our Nurses

Our nurses play an active role in outpatient, inpatient, and day-case patient care processes; they are involved in administering treatments, patient education, and follow-up. They also participate in educational and quality improvement activities.

- Esra Nur Akbaş
- Fatma Özyar
- Duygu Şirin
- Gülbahar Bağcı
- Songül Ünal

6.8. Our Data Entry Personnel

Our data entry staff ensure that patient records are maintained up-to-date, complete, and systematically. They handle the digital entry and management of medical data.

- Arzu Sebik
- Selda Bekpınar

7. Our Alumni

7.1. Pediatric Immunology and Allergy Specialists

List of graduates who completed the pediatric immunology and allergy subspecialty program (Pediatric Immunology and Allergy specialists):

- Dr. Işıl Berat Barlan
- Dr. Nerin Bahçeciler
- Dr. Mustafa Bakır
- Dr. Yonca Nuhoğlu
- Dr. Atilla Nursoy
- Dr. Metin Aydoğan
- Dr. Ercan Küçükosmanoğlu
- Dr. Recep Sancak
- Dr. Cevdet Özdemir
- Dr. Sevgi Keleş
- Dr. Elif Karakoç Aydın
- Dr. Safa Barış
- Dr. Ayça Kiyıkım
- Dr. Hasret Cağan
- Dr. Ercan Nain

- Dr. Nurhan Kasap
- Dr. Burcu Kocamış Kolukisa
- Dr. Asena Pınar Sefer Arınç
- Dr. Ezgi Yalçın Güngören
- Dr. Melek Yorğun Altunbaş

7.2. Pediatric Residency Program Thesis Students

Pediatric residents who completed thesis research under our division (as part of their Child Health and Diseases residency):

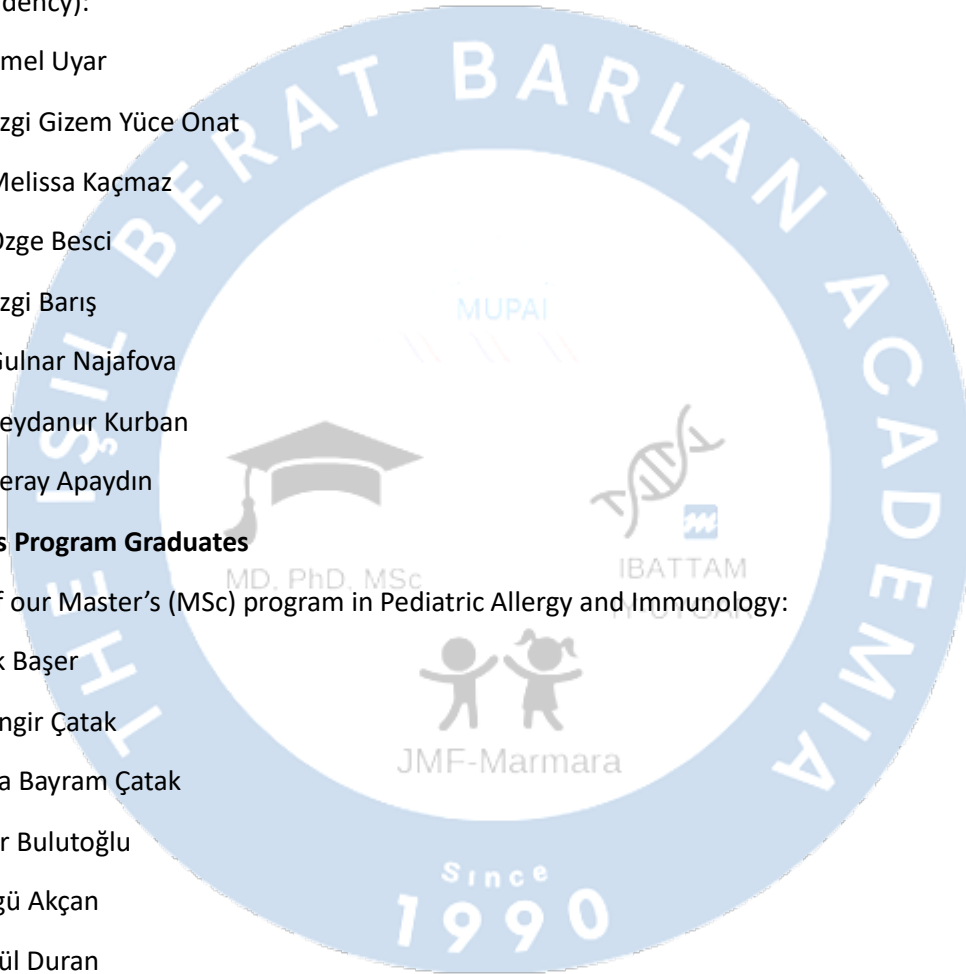
- Dr. Emel Uyar
- Dr. Ezgi Gizem Yüce Onat
- Dr. Melissa Kaçmaz
- Dr. Özge Besci
- Dr. Ezgi Barış
- Dr. Gulnar Najafova
- Dr. Şeydanur Kurban
- Dr. Seray Apaydın

7.3. Master's Program Graduates

Graduates of our Master's (MSc) program in Pediatric Allergy and Immunology:

- Dilek Başer
- Cihangir Çatak
- Feyza Bayram Çatak
- Alper Bulutoğlu
- Bengü Akçan
- Yazgül Duran
- Gizem Hançer
- Gülben Gürhan
- Selin Yıldırım
- Nur Ecem Öztop
- Muazzez Gökalp
- Ülkü Arıç

7.4. Doctoral Program Graduates



Graduates of our PhD program in Pediatric Allergy and Immunology:

- Faruk Tükenmez
- Tunç Akkoç
- Noushin Zibandeh
- Deniz Genç
- İsmail Ögülür

7.5. Rotating Trainees (Rotasyonelerimiz)

Pediatric immunology and allergy fellows from various universities or training hospitals who have come to our center for a rotation (minimum 3 months) to enhance their clinical experience and knowledge. During their rotation, they participate in inpatient, outpatient, and day-case treatment services, follow our educational program, and work in diagnostic and research laboratories. They may also join research projects and are expected to present cases and contribute to multidisciplinary case councils. These rotations are officially arranged through the Ministry of Health, with up to two rotators accepted at a time. At the end of the rotation, in addition to formal evaluation forms, rotators prepare a portfolio which is signed by our education coordinator and delivered to their home institution.

- Dr. Ahmet Özen
- Dr. Hülya Ercan Sarıçoban
- Dr. Zeynep Güleç Köksal
- Dr. Leman Tuba Karakurt
- Dr. Hayrunnisa Bekiş
- Dr. Halime Ermiştekin
- Dr. Aysu İlhan
- Dr. İsmail Ozanlı
- Dr. Nefise Uluç
- Dr. Nilay Çalışkan
- Dr. Nagihan İskender
- Dr. Muhammet Kaya
- Dr. Hamit Bologur
- Dr. Güler Yıldırım
- Dr. Pınar Yağmur Altınkaynak
- Dr. Sinem Aslan

(The above list includes recent rotators; earlier names are listed in alumni where applicable.)

8. Clinical Practice Infrastructure and Processes

Healthcare Delivery: Clinical services are provided at the Ministry of Health Marmara University Pendik Training and Research Hospital (tertiary care center) and the Prof. Dr. Asaf Ataseven Annex (secondary care center). Our center has 7 designated inpatient beds, 5 pediatric and 1 adult outpatient clinics, day treatment units for both adults and children with appointment-based therapy, 2 allergy laboratories serving children and 1 serving adults (staffed by 4 nurses), an immunology laboratory (staffed by 3 technical personnel), and 2 data entry staff. Patient care services are delivered by our physicians and consultants. We provide uninterrupted outpatient services from 9:00 to 16:00 every weekday (except Wednesday 9–12 which is reserved for education). Additionally, a 24/7 on-call physician is assigned to support subspecialty patient care and main residency training.

Outpatient care is by appointment (26 appointments per day per clinic). For emergencies, our emergency departments are open 24/7; patients are directed there and are seen in consultation by our team. Per Ministry of Health regulations, about 50% of our appointments are booked via the central referral system (patients referred from secondary to tertiary care by a physician), while the remaining 50% are managed by our data entry staff according to our physicians' directives for long-term follow-up patients.

When planning service delivery, we also incorporate the training needs of monthly rotating primary specialty (pediatrics) residents and subspecialty fellows, to ensure learning objectives are met in accordance with their core curricula. Each week, all outpatient clinics have two attending specialists and/or one rotating faculty consultant, as well as an on-call consultant assigned. Under the supervision of these educators, one physician is responsible for inpatient care and consultations. One physician is assigned to each of the six outpatient clinics daily. Additionally, the most senior fellow is tasked with overseeing research protocols, managing referred and priority patients, emergencies, the day treatment unit, and allergen challenge tests. Rotating residents are required to participate actively in service delivery under supervision.

For **transition of care from pediatric to adult services**, a transfer summary is prepared for each patient, and cases are discussed among physicians during the Wednesday education meeting before transferring the patient file to adult services. The patient and family are informed jointly as part of the transition process.

During **Wednesday educational sessions**, case council meetings are organized, which when necessary are multidisciplinary and/or multicenter. Often, specialists from pediatric infectious diseases, hematology, oncology, pulmonology, neurology, dermatology, radiology, pathology, and surgery are invited to participate. Cases discussed and decisions made are recorded in a council logbook and signed by participating physicians. Afterwards, a family meeting is held to inform the patient's family, and on the same day a note of the decisions and that the family was informed is entered into the hospital's electronic medical record.

Every two weeks on Thursdays, we hold a one-hour **Hematopoietic Stem Cell Transplantation (HSCT) council**. Prior to these meetings, our team prepares a transplant summary (epicrisis) for each patient,

and patients are evaluated in consultation with the hematology and infectious diseases departments. Patients who have completed HLA typing of family donors are added to the agenda. The meeting agenda is announced at least two days in advance. When necessary, the patient and/or family are invited for a family meeting after the council. All these processes are documented in the council logbook, and at the end of the meeting, signatures are obtained from participating physicians and, when applicable, from the patient/family to acknowledge they have been informed.

Every two months, we conduct a **severe asthma multidisciplinary council** with pediatric pulmonology to co-manage patients with severe or difficult-to-control asthma. Prior to the meeting, patients to be discussed are scheduled for clinic appointments on the same day and evaluated jointly by both specialties. The agenda is announced at least two days beforehand. A subspecialty fellow, under an attending's supervision, is assigned to present cases. If needed, the patient and/or family is invited for a meeting after the council. All discussions are recorded in the council logbook, and at the end, participant physicians and, if needed, the patient/family provide signatures confirming they were informed.

Starting in January 2025, **Mortality and Morbidity (M&M) meetings** are being held regularly every 3 months to improve education and service quality. These meetings are scheduled during the Wednesday education time, announced in advance, and relevant departments are invited. Proceedings are recorded in the council book and improvement strategies are documented by participants.

In summary, in our center a wide range of diseases – such as immunodeficiencies, asthma, allergic rhinitis/conjunctivitis, atopic dermatitis, food allergies, drug allergies, chronic urticaria, angioedema, and anaphylaxis – are diagnosed, treated, and managed with educational support in our outpatient clinics and wards.

Tests and Services Offered in Our Clinic include:

- Allergy skin tests
- Pulmonary function tests
- Drug provocation tests
- Food provocation tests
- Allergen-specific immunotherapies
- Education on allergen avoidance, home management of acute asthma attacks, and proper inhaler and medication use
- Immunoglobulin replacement therapies (IgRT)
- Training for subcutaneous immunoglobulin therapy
- Education to recognize disease-specific emergency symptoms
- Training in the use of epinephrine auto-injectors

- Education on reading food labels and checking food contents
- Day-case treatments in the outpatient infusion unit

(The above services are provided according to each patient's needs and current medical guidelines.)

9. Educational Infrastructure and Programs

Marmara University hosts multiple training programs within this discipline. The **Pediatric Immunology and Allergy Diseases Subspecialty Training Program** is conducted under the School of Medicine's Department of Pediatrics (which has national accreditation by the Turkish Medical Education Accreditation Board and the Pediatric Residency Accreditation from the Turkish Pediatric Association as of June 2021). The **Allergy-Immunology PhD Program** and the **Thesis Master's Program** are offered through the Institute of Health Sciences (accredited with the "Golden Quality Assurance in Postgraduate Health Education" label by the Higher Education Quality Board in January 2022). All programs are advanced academic programs structured on contemporary educational principles, focused on imparting scientific knowledge and professional competence.

Pediatric Immunology and Allergy Subspecialty Training – This fellowship program lasts three years and encompasses structured theoretical education, hands-on clinical experience, and independent research. Entrance is through a national centralized exam and placement system for specialists in pediatrics. During training, a variety of educational activities – structured seminars, case and journal clubs, multidisciplinary case councils, and mortality-morbidity meetings – foster growth in medical knowledge as well as professional attitudes and behaviors. In practical training, fellows actively manage inpatient and outpatient care, immunotherapy administration, provocation testing, and day-case treatments. The curriculum emphasizes core competencies such as communication, leadership, professionalism, ethical decision-making, research planning, and patient safety. Detailed information and the extended core curriculum are available on the department's website (via the School of Medicine academic departments page).

PhD Program in Pediatric Health and Diseases (Allergy-Immunology) – This doctoral program aims to instill scientific research competency by integrating advanced theoretical knowledge with laboratory practice. Through courses like "Clinical Immunology Molecular Techniques" and "Stem Cell and Immune System Interaction," students are guided toward basic research connected to clinical applications. The program supports academic development with activities such as journal clubs, scientific presentations, independent research, and participation in ethics committees. (Physicians are not admitted to this PhD program.) Admission requirements, announcements, curriculum, and course details can be accessed via the Institute's program information web page.

Thesis Master's Program in Pediatric Health and Diseases (Allergy-Immunology) – This MSc program aims to provide students with fundamental clinical knowledge in child health, research methodologies, and scientific presentation skills. Students actively participate in research projects and improve their ability to generate and interpret scientific data through thesis work. (Physicians are not admitted to this Master's program.) Admission criteria, announcements, curriculum, and course information are available on the Institute's program web page.

In terms of **educational infrastructure**, Marmara University offers high-level facilities such as allergy and immunology diagnostic laboratories, a respiratory function laboratory, an immunotherapy unit, advanced molecular testing infrastructure (flow cytometry, ELISA, PCR), electronic patient record systems, and a stem cell transplant center. With the support of the translational medicine center, advanced research projects are carried out and there is active participation in national and international congresses.

These programs align with our university's vision based on national qualifications, ethical values, and lifelong learning, with the aim of training health professionals who possess high clinical competence, developed research skills, and a strong sense of ethical responsibility.

10. Research Infrastructure and Publications

Marmara University's **Translational Medicine Clinical Practice and Research Center** and **Immunodeficiency Practice and Research Center** provide a robust research ecosystem structured on contemporary scientific approaches. Both centers function as entities that integrate the university's research vision with clinical practice and support advanced interdisciplinary collaborations. In line with the university's strategic plan, both centers pursue a mission of increasing scientific research productivity, facilitating access to national and international funding, and yielding high-impact publications.

The Translational Medicine Clinical Practice and Research Center – Located on the Marmara University Pendik Training and Research Hospital campus, this center boasts a modern infrastructure capable of hosting observational and interventional clinical studies, including phase trials. It provides an environment encompassing all stages of translational research from bench to bedside. The center conducts innovative projects in areas such as biomarker development, personalized medicine, and industry-partnered research. It also houses research infrastructure like a biobank, databases, research laboratories, and training/certification programs. By supporting collaborative projects and researcher exchange programs nationally and internationally, the center enhances academic productivity and capacity building. Prof. Dr. Ahmet Özen currently serves as the center's director. (Detailed information is available on the center's webpage on the university site.)

Board of Directors of the Translational Medicine Center:

1. Prof. Dr. Elif Karakoç Aydın
2. Prof. Dr. Safa Barış
3. Prof. Dr. Tunç Akkoç
4. Dr. Ömer Doğru
5. Dr. Mehmet Burak Aksu
6. Dr. Saime Batrel
7. Dr. İbrahim Gökçe
8. Dr. Can Erzik

The Immunodeficiency Practice and Research Center – This is a specialized research platform focusing on congenital disorders of the immune system. It is structured to support multifaceted research (clinical, laboratory, and genetic) in primary immunodeficiencies, which are considered rare diseases. Prof. Dr. Elif Karakoç Aydınler currently serves as the center's director. Research activities integrated into diagnosis, monitoring, and treatment include establishing clinical cohorts, patient registry systems, performing genetic analyses, and participating in international data sharing. The center also shares advanced laboratory infrastructure, multidisciplinary consultation mechanisms, and its qualified academic staff with the Translational Medicine Center. (Detailed information is available on the center's page on the university website.)

Board of Directors of the Immunodeficiency Center:

1. Prof. Dr. Ahmet Oğuzhan Özen
2. Prof. Dr. Safa Barış
3. Prof. Dr. Tunç Akkoç
4. Asst. Prof. Sevgi Bilgiç Eltan
5. Asst. Prof. Nurşah Eker

The **Department of Immunology**, established in 2012 within Marmara University School of Medicine, is a scientific unit with a well-equipped academic and technical staff that conducts integrated basic and clinical immunology education and research. The department is supported by laboratories for Basic Immunology, Molecular Immunology, Cell Culture, and Flow Cytometry, and is equipped with advanced technology such as PCR and flow cytometry devices, providing an effective infrastructure for student training and interdisciplinary research. Undergraduate and graduate courses cover a broad range of theoretical and practical topics from immune system physiology to immunological techniques, and from autoimmune diseases to immunotherapies, training students in close integration with clinical sciences. (The Department's webpage, updated by Chair Prof. Dr. Tunç Akkoç, can be accessed at its designated URL.)

10.1. Projects:

(Not listed in this document; ongoing projects are described under research activities.)

10.2. Publications (Last 5 Years):

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Marmara University Pediatric Immunology and Allergy Center

Institutional Introduction Document – Organizational Structure

1. About Us

Marmara University Faculty of Medicine's Division of Pediatric Immunology and Allergy was founded by Prof. Dr. Müjdat Başaran, and subsequently led by Prof. Dr. Işıl Barlan and her team. Today, the division continues its activities with four faculty members: Prof. Dr. Ahmet Oğuzhan Özen, Prof. Dr. Elif Karakoç Aydın, Prof. Dr. Safa Barış, and Dr. Öğr. Üyesi Sevgi Bilgiç Eltan. The division coordinates education, research, and healthcare services in the field of immune system and allergic diseases in children.

To date, the division has graduated more than 25 pediatric immunology and allergy subspecialists, and currently six subspecialty fellows are in training. Additionally, Master's and Doctoral programs in Pediatric Allergy and Immunology are being conducted.

Our division stands out for groundbreaking diagnostic and therapeutic approaches in immunological diseases and for high-impact translational research published in prestigious journals and presented at international conferences. Our academicians have received many distinguished awards, including:

- TÜSEB Aziz Sancar Young Scientist Award (Prof. Dr. Safa Barış)
- Federation of European Immunological Societies (EFIS) Outstanding Publication Award (Prof. Dr. Ahmet Oğuzhan Özen)
- TÜSEB Aziz Sancar Service Award (Prof. Dr. Ahmet Oğuzhan Özen)
- Prof. Dr. Işıl Berat Barlan Primary Immunodeficiency Research Award (Prof. Dr. Elif Karakoç Aydiner, Prof. Dr. Safa Barış)
- Council of Higher Education “International Collaboration Outstanding Achievement Award” (awarded under the leadership of our discipline)

Our division is currently carrying out numerous R&D projects and Phase 2–3 clinical drug trials supported by major grants from TÜBİTAK, TÜSEB, the European Union, QNRF (Qatar), and the NIH (USA). Education and research activities are conducted under the umbrella of the Jeffrey Modell Diagnostic Center İstanbul Marmara, the Immunodeficiency Practice and Research Center, and the Işıl Berat Barlan Translational Medicine Center. As of January 2024, our center has adopted the name “The Işıl Berat Barlan Academia (IBBAcademia)” to collectively represent all units performing education, research, and clinical services.

Contact information:

- S.B. Marmara University Pendik Training and Research Hospital, Pediatric Immunology and Allergy Division, Immunology and Allergy Clinic, Marmara University Işıl Berat Barlan Translational Medicine Research Center, Fevzi Çakmak, Muhsin Yazıcıoğlu Cd. No:10, 34899 Pendik/İstanbul, Türkiye. Tel: +90 216 625 9096
- S.B. Marmara University Pendik Training and Research Hospital Prof. Dr. Asaf Ataseven Annex, Pediatric Immunology and Allergy Clinic, Aydınevler, Başbüyük-Samandıra Yolu, 34854 Maltepe/İstanbul, Türkiye. Tel: +90 216 606 1141
- Marmara University School of Medicine, Department of Immunology, Başbüyük Mah. Maltepe Başbüyük Yolu Sok. No:9/2, Maltepe–İstanbul 34854, Türkiye. Tel: +90 216 777 5517

Instagram and LinkedIn social media accounts: **@IBBAcademia**

2. Vision

To become a pioneering education, research, and clinical care center that leads scientific advancements in pediatric immunology and allergy, strives for excellence in patient care, and creates a global impact.

3. Mission

To train competent pediatric immunology and allergy specialist physicians and scientists who adhere to ethical values, embrace collaboration, focus on research, continuously self-improve, and adopt lifelong learning principles.

4. Purpose of the Center

The purpose of the **Marmara University Pediatric Immunology and Allergy Center** is to ensure excellence in patient care, conduct leading clinical and translational research, and offer high-quality educational programs. The Center aims to improve the quality of life for individuals with allergic and immunological diseases by providing evidence-based curative and/or palliative treatments, pioneering innovative research, and conducting undergraduate, post-graduate (Master's and PhD), primary specialty, and subspecialty training programs.

5. Strategic Plan (2025–2030)

5.1. Health Service Delivery

- Increase access to comprehensive diagnostic and therapeutic services for immunodeficiency and allergic diseases.
- Implement patient-centered care approaches in line with international standards.
- Conduct Phase 2–3 clinical drug trials to offer targeted therapies to patients.

5.2. Education

- Provide structured educational programs for medical students, primary specialty residents, subspecialty fellows, and Master's/PhD students.
- Organize lifelong learning and continuing post-graduate education activities such as masterclasses, courses, and multicenter interdisciplinary case councils every two months, to foster continuous learning.

5.3. Research

- Promote translational research by encouraging collaboration between clinicians and basic scientists in allergy and immunology.
- Encourage multicenter, multidisciplinary, and international clinical studies in allergic and immunologic diseases.
- Conduct Phase 2–3 clinical drug trials in our translational medicine center.
- Increase the number of publications in high-impact journals through nationally and internationally funded projects.

5.4. Social Responsibility

- Serve as external consultants to patient advocacy organizations.
- Participate in patient education initiatives.
- Undertake disease-specific awareness campaigns.
- Strengthen the communication network with alumni.

6. Staff

6.1. Our Educators

The academic staff of Marmara University School of Medicine and the Institute of Health Sciences is responsible for educating medical students, PhD and MSc students in Pediatric Allergy and Immunology, residents in Pediatrics, and fellows in Pediatric Immunology and Allergy. They also lecture

at other institutions when invited. In post-graduate education, they serve as organizers and instructors in national and international society training programs, contributing to textbooks, guidelines, articles, publications, masterclasses, workshops, and press releases. In addition, our physicians provide consultation and training for educational programs planned and conducted by our allied health personnel and patients.

- **Prof. Dr. Ahmet Oğuzhan Özen, MD:** Head of Pediatric Immunology and Allergy Division; Director of Işıl Barlan Translational Medicine Center; Director of Jeffrey Modell Marmara Istanbul Center; Coordinator of Pediatric Allergy and Immunology PhD and MSc Programs; Member of MENAT PINI Registry Committee; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: ahmet.ozen – Marmara University
- **Prof. Dr. Elif Karakoç Aydıner, MD:** Director of Marmara University Immunodeficiency Practice and Research Center; Board Member of Işıl Barlan Translational Medicine Center; Member of Marmara University Clinical Research Ethics Committee; Quality Unit Coordinator of Marmara University Department of Pediatrics; Board Member of Immunodeficiency Patient Society; Board Member of Turkish Immunology Society; Member of EAACI (European Academy of Allergy & Clinical Immunology) Primary Immunodeficiency Working Group; Member of Turkish Pediatrics Qualification Board Measurement and Evaluation Committee; Co-chair of Turkish Pediatric Allergy, Immunology & Asthma Society's Pediatric Clinical Immunology Working Group; Member of MENA PINI Registry Committee; Specialist in Pediatrics and Pediatric Immunology & Allergy; PhD student in Medical Education (English) at Acibadem University Institute of Health Sciences.
Profile: elif.aydiner – Marmara University
- **Prof. Dr. Safa Barış, MD:** Board Member of Marmara University Immunodeficiency Practice and Research Center; Member of the World Allergy Organization (WAO) Immunodeficiency Working Group; Member of the European Society for Immunodeficiencies (ESID) Clinical Working Party; Board Member of Işıl Barlan Translational Medicine Center; Member of MENA ICID Registry Committee; Board Member of Immunodeficiency Patient Society; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: sbaris – Marmara University
- **Dr. Öğr. Üyesi (Asst. Prof.) Sevgi Bilgiç Eltan, MD:** Board Member of Marmara University Immunodeficiency Practice and Research Center; Member of Turkish Pediatric Allergy, Immunology & Asthma Society's Pediatric Clinical Immunology Working Group; Specialist in Pediatrics and Pediatric Immunology & Allergy.
Profile: 15061 – Marmara University
- **Prof. Dr. Tunç Akkoç, PhD:** Head of Department of Immunology; Board Member of the Stem Cell and Cellular Therapies Society; (Contributing Immunology Faculty for Pediatric Immunology and Allergy).
Profile: tuncakkoc – Marmara University

6.2. Our Physicians

Our attending specialist physicians provide clinical care in pediatric and adult immunology and allergy, and actively participate in patient education, research, training of students, as well as the education of primary specialty and subspecialty trainees and health personnel.

- **Uzm. Dr. Melek Yorğun Altunbaş, MD:** Pediatrician (Child Health and Diseases Specialist) and Pediatric Immunology & Allergy Specialist.
Profile: Hospital Physicians – Marmara University Pendik Hospital
- **Uzm. Dr. Esra Karabiber, MD:** Pulmonologist (Chest Diseases Specialist) and Immunology & Allergy Specialist.
Profile: Hospital Physicians – Marmara University Pendik Hospital

6.3. Our Subspecialty Fellows (Yandal Uzmanlık Öğrencilerimiz)

Our subspecialty fellowship trainees are actively involved in clinical observation, patient management, research, and educational activities. Through structured rotations and evaluation systems during their three-year training, they gain the competencies required for subspecialty practice.

- Dr. Salim Can
- Dr. Razin Amirov
- Dr. Necmiye Keser Öztürk
- Dr. Selcen Bozkurt
- Dr. Burkay Çağan Çolak
- Dr. Ramin Mahmudov

6.4. Our Master's Students

Our Master's students receive education focusing on the basic science aspects of immunology and allergic diseases and carry out thesis research. They also take active roles in research projects, contributing to scientific studies and publications.

- Gülperi Bolatkale
- Elif Süer

6.5. Our Doctoral Students

Our PhD students conduct scientific research and also contribute to educational activities and interdisciplinary projects. By participating in national and international projects carried out at our center, they further develop their research capacities.

- Feyza Bayram Çatak
- Cihangir Çatak
- Senem Kılıç
- Zeynep Tunca
- Alper Bulutoğlu
- Burak Demirkaya
- Melike Oyuncakçı

6.6. Our Technicians

Our technicians ensure that laboratory services are carried out regularly, safely, and effectively, and they provide technical support for research projects.

- Dilek Başer (MSc)
- Gamze Akgün

6.7. Our Nurses

Our nurses play an active role in outpatient, inpatient, and day-case patient care processes; they are involved in administering treatments, patient education, and follow-up. They also participate in educational and quality improvement activities.

- Esra Nur Akbaş
- Fatma Özyar
- Duygu Şirin
- Gülbahar Bağcı
- Songül Ünal

6.8. Our Data Entry Personnel

Our data entry staff ensure that patient records are maintained up-to-date, complete, and systematically. They handle the digital entry and management of medical data.

- Arzu Sebik
- Selda Bekpınar

7. Our Alumni

7.1. Pediatric Immunology and Allergy Specialists

List of graduates who completed the pediatric immunology and allergy subspecialty program (Pediatric Immunology and Allergy specialists):

- Dr. Işıl Berat Barlan
- Dr. Nerin Bahçeciler
- Dr. Mustafa Bakır
- Dr. Yonca Nuhoğlu
- Dr. Atilla Nursoy
- Dr. Metin Aydoğan
- Dr. Ercan Küçükosmanoğlu
- Dr. Recep Sancak
- Dr. Cevdet Özdemir
- Dr. Sevgi Keleş
- Dr. Elif Karakoç Aydın

- Dr. Safa Barış
- Dr. Ayça Kıyıkım
- Dr. Hasret Çağan
- Dr. Ercan Nain
- Dr. Nurhan Kasap
- Dr. Burcu Kocamış Kolukisa
- Dr. Asena Pınar Sefer Arınç
- Dr. Ezgi Yalçın Güngören
- Dr. Melek Yorğun Altunbaş

7.2. Pediatric Residency Program Thesis Students

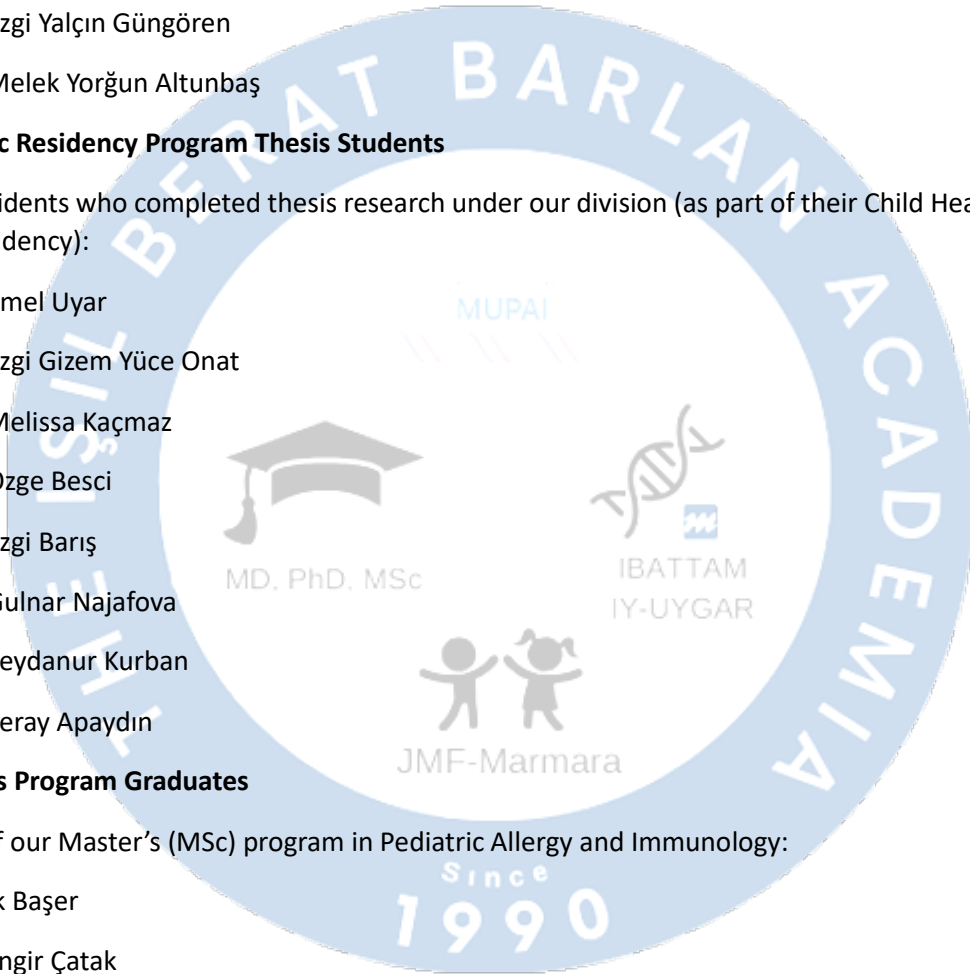
Pediatric residents who completed thesis research under our division (as part of their Child Health and Diseases residency):

- Dr. Emel Uyar
- Dr. Ezgi Gizem Yüce Onat
- Dr. Melissa Kaçmaz
- Dr. Özge Besci
- Dr. Ezgi Barış
- Dr. Gulnar Najafova
- Dr. Şeydanur Kurban
- Dr. Seray Apaydın

7.3. Master's Program Graduates

Graduates of our Master's (MSc) program in Pediatric Allergy and Immunology:

- Dilek Başer
- Cihangir Çatak
- Feyza Bayram Çatak
- Alper Bulutoğlu
- Bengü Akçan
- Yazgül Duran
- Gizem Hançer
- Gülben Gürhan
- Selin Yıldırım



- Nur Ecem Öztop
- Muazzez Gökalp
- Ülkü ArıĖ

7.4. Doctoral Program Graduates

Graduates of our PhD program in Pediatric Allergy and Immunology:

- Faruk Tükenmez
- Tunç Akkoç
- Noushin Zibandeh
- Deniz Genç
- İsmail ÖĖölür

7.5. Rotating Trainees (Rotasyonelerimiz)

Pediatric immunology and allergy fellows from various universities or training hospitals who have come to our center for a rotation (minimum 3 months) to enhance their clinical experience and knowledge. During their rotation, they participate in inpatient, outpatient, and day-case treatment services, follow our educational program, and work in diagnostic and research laboratories. They may also join research projects and are expected to present cases and contribute to multidisciplinary case councils. These rotations are officially arranged through the Ministry of Health, with up to two rotators accepted at a time. At the end of the rotation, in addition to formal evaluation forms, rotators prepare a portfolio which is signed by our education coordinator and delivered to their home institution.

- Dr. Ahmet Özen
- Dr. Hülya Ercan Sarıçoban
- Dr. Zeynep Güleç Köksal
- Dr. Leman Tuba Karakurt
- Dr. Hayrunnisa Bekiř
- Dr. Halime Ermiřtekin
- Dr. Aysu İlhan
- Dr. İsmail Ozanlı
- Dr. Nefise Uluç
- Dr. Nilay Çalıřkan
- Dr. Nagihan İskender
- Dr. Muhammet Kaya
- Dr. Hamit Bologur
- Dr. Güler Yıldırım
- Dr. Pınar YaĖmur Altınkaynak



- Dr. Sinem Aslan

(The above list includes recent rotators; earlier names are listed in alumni where applicable.)

8. Clinical Practice Infrastructure and Processes

Healthcare Delivery: Clinical services are provided at the Ministry of Health Marmara University Pendik Training and Research Hospital (tertiary care center) and the Prof. Dr. Asaf Ataseven Annex (secondary care center). Our center has 7 designated inpatient beds, 5 pediatric and 1 adult outpatient clinics, day treatment units for both adults and children with appointment-based therapy, 2 allergy laboratories serving children and 1 serving adults (staffed by 4 nurses), an immunology laboratory (staffed by 3 technical personnel), and 2 data entry staff. Patient care services are delivered by our physicians and consultants. We provide uninterrupted outpatient services from 9:00 to 16:00 every weekday (except Wednesday 9–12 which is reserved for education). Additionally, a 24/7 on-call physician is assigned to support subspecialty patient care and main residency training.

Outpatient care is by appointment (26 appointments per day per clinic). For emergencies, our emergency departments are open 24/7; patients are directed there and are seen in consultation by our team. Per Ministry of Health regulations, about 50% of our appointments are booked via the central referral system (patients referred from secondary to tertiary care by a physician), while the remaining 50% are managed by our data entry staff according to our physicians' directives for long-term follow-up patients.

When planning service delivery, we also incorporate the training needs of monthly rotating primary specialty (pediatrics) residents and subspecialty fellows, to ensure learning objectives are met in accordance with their core curricula. Each week, all outpatient clinics have two attending specialists and/or one rotating faculty consultant, as well as an on-call consultant assigned. Under the supervision of these educators, one physician is responsible for inpatient care and consultations. One physician is assigned to each of the six outpatient clinics daily. Additionally, the most senior fellow is tasked with overseeing research protocols, managing referred and priority patients, emergencies, the day treatment unit, and allergen challenge tests. Rotating residents are required to participate actively in service delivery under supervision.

For **transition of care from pediatric to adult services**, a transfer summary is prepared for each patient, and cases are discussed among physicians during the Wednesday education meeting before transferring the patient file to adult services. The patient and family are informed jointly as part of the transition process.

During **Wednesday educational sessions**, case council meetings are organized, which when necessary are multidisciplinary and/or multicenter. Often, specialists from pediatric infectious diseases, hematology, oncology, pulmonology, neurology, dermatology, radiology, pathology, and surgery are invited to participate. Cases discussed and decisions made are recorded in a council logbook and signed by participating physicians. Afterwards, a family meeting is held to inform the patient's family, and on the same day a note of the decisions and that the family was informed is entered into the hospital's electronic medical record.

Every two weeks on Thursdays, we hold a one-hour **Hematopoietic Stem Cell Transplantation (HSCT) council**. Prior to these meetings, our team prepares a transplant summary (epicrisis) for each patient, and patients are evaluated in consultation with the hematology and infectious diseases departments. Patients who have completed HLA typing of family donors are added to the agenda. The meeting agenda is announced at least two days in advance. When necessary, the patient and/or family are invited for a family meeting after the council. All these processes are documented in the council logbook, and at the end of the meeting, signatures are obtained from participating physicians and, when applicable, from the patient/family to acknowledge they have been informed.

Every two months, we conduct a **severe asthma multidisciplinary council** with pediatric pulmonology to co-manage patients with severe or difficult-to-control asthma. Prior to the meeting, patients to be discussed are scheduled for clinic appointments on the same day and evaluated jointly by both specialties. The agenda is announced at least two days beforehand. A subspecialty fellow, under an attending's supervision, is assigned to present cases. If needed, the patient and/or family is invited for a meeting after the council. All discussions are recorded in the council logbook, and at the end, participant physicians and, if needed, the patient/family provide signatures confirming they were informed.

Starting in January 2025, **Mortality and Morbidity (M&M) meetings** are being held regularly every 3 months to improve education and service quality. These meetings are scheduled during the Wednesday education time, announced in advance, and relevant departments are invited. Proceedings are recorded in the council book and improvement strategies are documented by participants.

In summary, in our center a wide range of diseases – such as immunodeficiencies, asthma, allergic rhinitis/conjunctivitis, atopic dermatitis, food allergies, drug allergies, chronic urticaria, angioedema, and anaphylaxis – are diagnosed, treated, and managed with educational support in our outpatient clinics and wards.

Tests and Services Offered in Our Clinic include:

- Allergy skin tests
- Pulmonary function tests
- Drug provocation tests
- Food provocation tests
- Allergen-specific immunotherapies
- Education on allergen avoidance, home management of acute asthma attacks, and proper inhaler and medication use
- Immunoglobulin replacement therapies (IgRT)
- Training for subcutaneous immunoglobulin therapy

- Education to recognize disease-specific emergency symptoms
- Training in the use of epinephrine auto-injectors
- Education on reading food labels and checking food contents
- Day-case treatments in the outpatient infusion unit

(The above services are provided according to each patient's needs and current medical guidelines.)

9. Educational Infrastructure and Programs

Marmara University hosts multiple training programs within this discipline. The **Pediatric Immunology and Allergy Diseases Subspecialty Training Program** is conducted under the School of Medicine's Department of Pediatrics (which has national accreditation by the Turkish Medical Education Accreditation Board and the Pediatric Residency Accreditation from the Turkish Pediatric Association as of June 2021). The **Allergy-Immunology PhD Program** and the **Thesis Master's Program** are offered through the Institute of Health Sciences (accredited with the "Golden Quality Assurance in Postgraduate Health Education" label by the Higher Education Quality Board in January 2022). All programs are advanced academic programs structured on contemporary educational principles, focused on imparting scientific knowledge and professional competence.

Pediatric Immunology and Allergy Subspecialty Training – This fellowship program lasts three years and encompasses structured theoretical education, hands-on clinical experience, and independent research. Entrance is through a national centralized exam and placement system for specialists in pediatrics. During training, a variety of educational activities – structured seminars, case and journal clubs, multidisciplinary case councils, and mortality-morbidity meetings – foster growth in medical knowledge as well as professional attitudes and behaviors. In practical training, fellows actively manage inpatient and outpatient care, immunotherapy administration, provocation testing, and day-case treatments. The curriculum emphasizes core competencies such as communication, leadership, professionalism, ethical decision-making, research planning, and patient safety. Detailed information and the extended core curriculum are available on the department's website (via the School of Medicine academic departments page).

PhD Program in Pediatric Health and Diseases (Allergy-Immunology) – This doctoral program aims to instill scientific research competency by integrating advanced theoretical knowledge with laboratory practice. Through courses like "Clinical Immunology Molecular Techniques" and "Stem Cell and Immune System Interaction," students are guided toward basic research connected to clinical applications. The program supports academic development with activities such as journal clubs, scientific presentations, independent research, and participation in ethics committees. (Physicians are not admitted to this PhD program.) Admission requirements, announcements, curriculum, and course details can be accessed via the Institute's program information web page.

Thesis Master's Program in Pediatric Health and Diseases (Allergy-Immunology) – This MSc program aims to provide students with fundamental clinical knowledge in child health, research methodologies, and scientific presentation skills. Students actively participate in research projects and improve their ability to generate and interpret scientific data through thesis work. (Physicians are not admitted to

this Master's program.) Admission criteria, announcements, curriculum, and course information are available on the Institute's program web page.

In terms of **educational infrastructure**, Marmara University offers high-level facilities such as allergy and immunology diagnostic laboratories, a respiratory function laboratory, an immunotherapy unit, advanced molecular testing infrastructure (flow cytometry, ELISA, PCR), electronic patient record systems, and a stem cell transplant center. With the support of the translational medicine center, advanced research projects are carried out and there is active participation in national and international congresses.

These programs align with our university's vision based on national qualifications, ethical values, and lifelong learning, with the aim of training health professionals who possess high clinical competence, developed research skills, and a strong sense of ethical responsibility.

10. Research Infrastructure and Publications

Marmara University's **Translational Medicine Clinical Practice and Research Center** and **Immunodeficiency Practice and Research Center** provide a robust research ecosystem structured on contemporary scientific approaches. Both centers function as entities that integrate the university's research vision with clinical practice and support advanced interdisciplinary collaborations. In line with the university's strategic plan, both centers pursue a mission of increasing scientific research productivity, facilitating access to national and international funding, and yielding high-impact publications.

The Translational Medicine Clinical Practice and Research Center – Located on the Marmara University Pendik Training and Research Hospital campus, this center boasts a modern infrastructure capable of hosting observational and interventional clinical studies, including phase trials. It provides an environment encompassing all stages of translational research from bench to bedside. The center conducts innovative projects in areas such as biomarker development, personalized medicine, and industry-partnered research. It also houses research infrastructure like a biobank, databases, research laboratories, and training/certification programs. By supporting collaborative projects and researcher exchange programs nationally and internationally, the center enhances academic productivity and capacity building. Prof. Dr. Ahmet Özen currently serves as the center's director. (Detailed information is available on the center's webpage on the university site.)

Board of Directors of the Translational Medicine Center:

1. Prof. Dr. Elif Karakoç Aydın
2. Prof. Dr. Safa Barış
3. Prof. Dr. Tunç Akkoç
4. Dr. Ömer Doğru
5. Dr. Mehmet Burak Aksu

6. Dr. Saime Batreli
7. Dr. İbrahim Gökçe
8. Dr. Can Erzik

The Immunodeficiency Practice and Research Center – This is a specialized research platform focusing on congenital disorders of the immune system. It is structured to support multifaceted research (clinical, laboratory, and genetic) in primary immunodeficiencies, which are considered rare diseases. Prof. Dr. Elif Karakoç Aydınler currently serves as the center’s director. Research activities integrated into diagnosis, monitoring, and treatment include establishing clinical cohorts, patient registry systems, performing genetic analyses, and participating in international data sharing. The center also shares advanced laboratory infrastructure, multidisciplinary consultation mechanisms, and its qualified academic staff with the Translational Medicine Center. (Detailed information is available on the center’s page on the university website.)

Board of Directors of the Immunodeficiency Center:

1. Prof. Dr. Ahmet Oğuzhan Özen
2. Prof. Dr. Safa Barış
3. Prof. Dr. Tunç Akkoç
4. Asst. Prof. Sevgi Bilgiç Eltan
5. Asst. Prof. Nurşah Eker

The **Department of Immunology**, established in 2012 within Marmara University School of Medicine, is a scientific unit with a well-equipped academic and technical staff that conducts integrated basic and clinical immunology education and research. The department is supported by laboratories for Basic Immunology, Molecular Immunology, Cell Culture, and Flow Cytometry, and is equipped with advanced technology such as PCR and flow cytometry devices, providing an effective infrastructure for student training and interdisciplinary research. Undergraduate and graduate courses cover a broad range of theoretical and practical topics from immune system physiology to immunological techniques, and from autoimmune diseases to immunotherapies, training students in close integration with clinical sciences. (The Department’s webpage, updated by Chair Prof. Dr. Tunç Akkoç, can be accessed at its designated URL.)

10.1. Projects:

(Not listed in this document; ongoing projects are described under research activities.)

10.2. Publications (Last 5 Years):

1. Yorgun Altunbaş M, Kogler H, Abolhassani H, Akkuş E, Baştürk A, Akkelle E, Sayar E, Polat E, Kara A, Can S, Frohne A, Segarra-Roca A, Jimenez-Heredia R, Babayeva R, Sefer AP, Kıyıkım A, Bilgiç Eltan S, Karakoç-Aydiner E, Ozen A, Beşer OF, Boztug K, Rezaei N, Baris S. **Clinical, Immunological Prognostic Factors and Novel Variants in Large Cohort of DGAT1 Deficiency.** *J Allergy Clin Immunol Pract.* 2025 Mar 26:S2213-2198(25)00277-6. doi: 10.1016/j.jaip.2025.03.026. Epub ahead of print. PMID: 40154740.

2. Bayram Çatak F, Çatak MC, Babayeva R, Toubia J, Warnock NI, Çelmeli F, Hafizoğlu D, Yakıcı N, Kayaoğlu B, Sürücü N, Yalçın Güngören E, Can S, Yorgun Altunbaş M, Karakuş İS, Kiyıkım A, Orhan F, Bilgiç Eltan S, Karakoç-Aydiner E, Ozen A, Erman B, Gürsel M, Kok CH, Cildir G, Baris S. **Ruxolitinib treatment ameliorates clinical, immunologic, and transcriptomic aberrations in patients with STAT3 gain-of-function disease.** *J Allergy Clin Immunol.* 2025 Mar;155(3):784-791. doi: 10.1016/j.jaci.2024.11.032. Epub 2024 Dec 2. PMID: 39631446.
3. Canızci Erdemli P, Öcal Demir S, Bozkurt S, Aslan Tuncay S, Yılmaz S, Parlak B, Dizi Işık A, Büyüktaş Aytaç D, Abacı Çapar MÇ, Ergenç Z, Atalay AS, Gökçe İ, Karakoç-Aydiner E, Özen A, Kepenekli E, Akkoç G. **Listeria Meningitis as an Indication of Undiagnosed Primary Immune Deficiency, Activated Phosphoinositide 3-Kinase Delta Syndrome: A Case Report.** *Pediatr Infect Dis J.* 2025 Jan 30. doi: 10.1097/INF.0000000000004737. Epub ahead of print. PMID: 39889727.
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