

# Internship Program

## Allergology



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Internship Program  
Allergology

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# 01 Introduction

Scientific and technological innovations related to the area of Allergology have improved diagnostic strategies for different pathologies. Therapeutic strategies that combine techniques such as immunotherapy and biological drugs are also being implemented to reduce the impact of conditions such as bronchial asthma. In view of these updates, the healthcare professional must remain abreast of the latest developments in the sector. However, the pedagogical landscape lacks programs that focus on the acquisition of practical skills of these specialists. This is why TECH has set itself apart with a first level program that will facilitate doctors' access to a prestigious hospital institution for 3 weeks. This program will allow the approach of different pathologies with the most avant-garde procedures of the moment.



*Thanks to this program, you will delve into the latest in vivo and in vitro techniques to diagnose allergic pathologies”*





In vivo diagnostic techniques such as the Prick Test and percutaneous patches, as well as molecular methodologies to detect different allergic pathologies, are some of the novelties in the area of Allergology. In recent years, the therapeutics of these diseases have also improved with the development of newer products and the combination of pharmacological treatments of varying complexity. As a result of these constant updates, specialists in this medical field have been forced to expand their skills with educational programs focused on the latest equipment and resources. However, few programs in this field address the practical skills demanded of this class of professionals.

For this reason, TECH has devised a novel modality of studies in which the allergist will be able to acquire skills to perform complex procedures such as diagnosis by inflammatory genotypes or induced sputum measurements, flow cytometry, among others. Thus, this Internship Program will facilitate the student's access to a first level hospital center, in which patients with different pathologies will be treated, using the most recent scientific evidence. These facilities will be located in distant geographical locations thanks to the wide network of agreements and collaborators within the reach of this program of studies. In this way, the physician will broaden his or her skills in accordance with the requirements of international parameters.

This intensive, face-to-face stay will last 3 weeks and will allow allergists to work together with experts of great prestige. They will also be supervised by an assistant tutor who will be in charge of verifying their progress in an immersive way. All these services will provide the professional with the indispensable skills to immediately distinguish himself in a growing health care field.

# 02

## Why Study an Internship Program?

Immunotherapies are some of the most innovative therapeutic methods applied today by Allergology to improve the health of its patients. This, and other modern techniques, have revolutionized this health sector and, at the same time, require physicians to be properly prepared to implement them. For this reason, TECH has devised this practical, on-site and intensive Internship Program, in which the professional will spend 3 weeks in a first level hospital center and will be able to implement the new strategies of this medical area in real patients.



*TECH will update you on the main novelties in relation to pharmacological groups to treat different allergic pathologies”*

### 1. Updating from the latest technology available

Allergic diagnostic techniques in vivo and in vitro have undergone a continuous evolution in recent years based on new technological tools. Thus, physicians must be updated on its correct implementation in their daily practice. With this Internship Program, you will develop the necessary skills for these tasks.

### 2. Gaining In-Depth Knowledge from the Experience of Top Specialists

Throughout this clinical stay, the professional will have a direct exchange with experts of wide experience in the field of Allergology. These specialists will help them to handle highly complex procedures and technological resources. In turn, they will have an assistant tutor who will supervise their educational progress at all times.

### 3. Entering First-Class Clinical Environments

The clinical scenarios within the reach of the specialists who take this TECH program have international certifications of excellence. This is possible thanks to their advanced technologies and specialized personnel. Thus, the physician will be able to update themselves by applying state-of-the-art procedures and providing the best care to real patients.



#### **4. Putting the acquired knowledge into daily practice from the very first moment**

TECH sets itself apart from other programs in the educational market by offering a 100% practical program. Over the course of 3 weeks, allergists will be able to put into practice the most complex and up-to-date diagnostic and therapeutic techniques. Through the analysis of these competencies, they will be able to improve their daily work activities.

#### **5. Expanding the Boundaries of Knowledge**

The centers chosen for this Internship Program have international prestige and highly regarded specialists. The student will be able to access these instances, located in different geographical locations, thanks to TECH's eagerness to broaden the horizons of its graduates. To this end, it will rely on a wide network of contacts and agreements.



*You will have full practical immersion  
at the center of your choice"*

# 03 Objectives

This Internship Program in Allergology aims to ensure that the professional updates the diagnostic and therapeutic procedures of the specialty in an exclusively practical way, through a hospital stay designed with clinical and academic rigor, under the guidance of renowned professionals in a hospital center of the highest scientific quality and technological innovation.



## General Objectives

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- ♦ Recognize the new ways of allergic disease affection and its importance in morbidity in primary care
- ♦ Review the latest international praxis in Allergology and to learn about new approaches to allergy management
- ♦ Recognize respiratory, food, animal and hymenopteran allergens for appropriate preventive intervention and reduce the risk of exposure as a priority preventive measure







## Specific Objectives

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- ♦ Address diagnostic techniques for traditional allergic diseases
- ♦ Learn the characteristics of the induced sputum technique to phenotyping patients
- ♦ Apply in daily clinical practice the traditional in vivo techniques for the diagnosis of allergic diseases: Prick test, Prick-prick, Prick-prick test, Epicutaneous tests
- ♦ Define the most commonly used equipment in the allergic specialty, from spirometry, rhinomanometry, acoustic rhinometry, measurement of exhaled nitric oxide, etc
- ♦ Use diagnostic techniques for comorbidities of allergic diseases, gastroesophageal reflux, sleep disorders, etc
- ♦ To know doses and indications of the different biological formats for the treatment of respiratory, allergic, cutaneous, autoimmune and food diseases, among others
- ♦ Implementation of the new guidelines for skin diseases related to the field of allergology
- ♦ Learn about new biological drugs for skin conditions
- ♦ Recognize the main differences between idiosyncratic and allergic reactions
- ♦ Apply the diagnostic protocols for the diagnosis of allergy to beta lactams and NSAIDs
- ♦ Classify and taxonomy of hymenopterans according to patient geolocation
- ♦ Become familiar with international guidelines for treating hymenoptera allergy
- ♦ Analyze occupational allergic diseases and distinguish between occupationally exacerbated asthma and work-related asthma
- ♦ Know the main high and low molecular weight occupational agents
- ♦ Learn the basics of telemedicine and social networks in the field of allergology



*At the end of this program you will be able to master the new diagnostic and therapeutic procedures for the efficient management of patients with various allergic disorders"*

# 04

## Educational Plan

This 3-week Internship Program in Allergology will be held from Monday to Friday, with 8 consecutive 8-hour days. This stay will allow the physician to see real patients alongside a team of international reference experts in this area of health. Together with them, they will apply the most innovative diagnostic and treatment procedures, offering each case a personalized and efficient attention. In addition, the professional will be supported by an assistant tutor who will monitor their academic progress on an ongoing basis.

In this training proposal, completely practical in nature, the activities are aimed at developing and perfecting the competencies necessary for the provision of health care in areas and conditions that require a high level of qualification, and which are oriented towards specific training for the exercise of the activity, in an environment of patient safety and high professional performance.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of the professors and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for Allergology (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the training, and their completion is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:



*Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential”*



Module	Practical Activity
<b>In vivo diagnostic techniques in allergic diseases</b>	Indicate Skin Prick Test studies to patients with suspected allergy to pneumoallergens
	Apply Prick-Prick testing (dermal, deeper route) to patients with possible food allergies
	Implement epicutaneous tests such as the Patch test and Fotopatch test for pollen and dust mite allergies
	Perform oral challenge tests for drugs and foods that can cause allergies
	Use nasal provocation tests to evaluate the reaction of snotty noses to allergens in dust, pollen and others of environmental origin
	Diagnose other allergic reactions by conjunctival provocation tests
<b>In vitro diagnostic techniques for allergic diseases</b>	Perform respiratory function tests to prevent bronchial asthma and determine bronchial bronchodilation
	Indicate active anterior rhinomanometry to measure airflow and nasal fossa pressure during breathing
	Apply the FeNo (exhaled nitric oxide) test to indirectly measure the degree of airway inflammation
	Test for specific IgE antibodies, cellular mediators of inflammation and mediators of anaphylaxis
	Use of molecular diagnostic techniques by components for allergic diseases
<b>Main pharmacological groups for the treatment of allergic pathology</b>	Use of beta-lactam antibiotics for different allergic pathologies
	Treating allergies with nonsteroidal anti-inflammatory drugs
	Indicate Anticoagulants for patients with severe respiratory allergies
	Applying proton pump inhibitors to combat allergies
	Diagnose pseudoallergic and idiosyncratic reactions to drugs
<b>Epidemiology, diagnosis and treatment of respiratory allergic diseases</b>	Perform endoscopic nasosinusual surgery for nasosinusual polyposis
	Indication of biologic drugs in the treatment of asthma
	Treating asthma by thermoplasty
	Apply arterial blood gases and bronchoscopy to patients with eosinophilic bronchitis
	Use antibiotic therapies against the fungus causing allergic bronchopulmonary aspergillosis
<b>Immunodeficiencies in Allergology and the future of the specialty</b>	Perform tests to measure Alpha 1 Antitrypsin deficiency to prevent diseases such as emphysema and chronic obstructive pulmonary disease (COPD)
	Treating cutaneous mastocytosis through state-of-the-art antihistamine therapies
	Measuring D-xylose absorption in the laboratory for signs of celiac disease
	Indicate Immunotherapy with peptides with different allergic pathologies
	Apply Immunotherapy, combined with biological drugs, to stop allergic rhinitis and asthma

# 05 Where Can I Do the Internship Program?

TECH has chosen prestigious international hospitals for the professional to complete this Internship Program. During this 3-week intensive face-to-face stay, the specialist will have access to the most distinguished experts in the field of Allergology. In addition, they will be able to manipulate first level technologies that facilitate the diagnosis and treatment of these pathologies. At the same time, the allergist will have the opportunity to apply these procedures and skills directly to real cases with different respiratory, food or skin disorders.

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*Enroll in this program and you will expand your competences for the correct management and approach of allergic disease in an interdisciplinary way”*





The student will be able to do this program at the following centers:



Medicine

### Hospital HM Modelo

Country: Spain City: La Coruña

Address: Rúa Virrey Osorio, 30, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

### Hospital HM Rosaleda

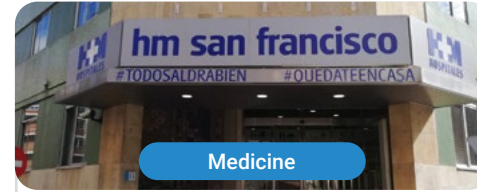
Country: Spain City: La Coruña

Address: Rúa de Santiago León de Caracas, 1, 15701, Santiago de Compostela, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Hair Transplantation
- Orthodontics and Dentofacial Orthopedics



Medicine

### Hospital HM San Francisco

Country: Spain City: León

Address: C. Marqueses de San Isidro, 11, 24004, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Trauma Nursing



Medicine

### Hospital HM Regla

Country: Spain City: León

Address: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Update on Psychiatric Treatment in Minor Patients



Medicine

### Hospital HM Nou Delfos

Country: Spain City: Barcelona

Address: Avinguda de Vallcarca, 151, 08023 Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Aesthetic Medicine
- Clinical Nutrition in Medicine



Medicine

### Hospital HM Madrid

Country: Spain City: Madrid

Address: Pl. del Conde del Valle de Súchil, 16, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Palliative Care
- Anaesthesiology and Resuscitation



Medicine

### Hospital HM Montepíncipe

Country: Spain City: Madrid

Address: Av. de Montepíncipe, 25, 28660, Boadilla del Monte, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Palliative Care
- Aesthetic Medicine



Medicine

### Hospital HM Torrelodones

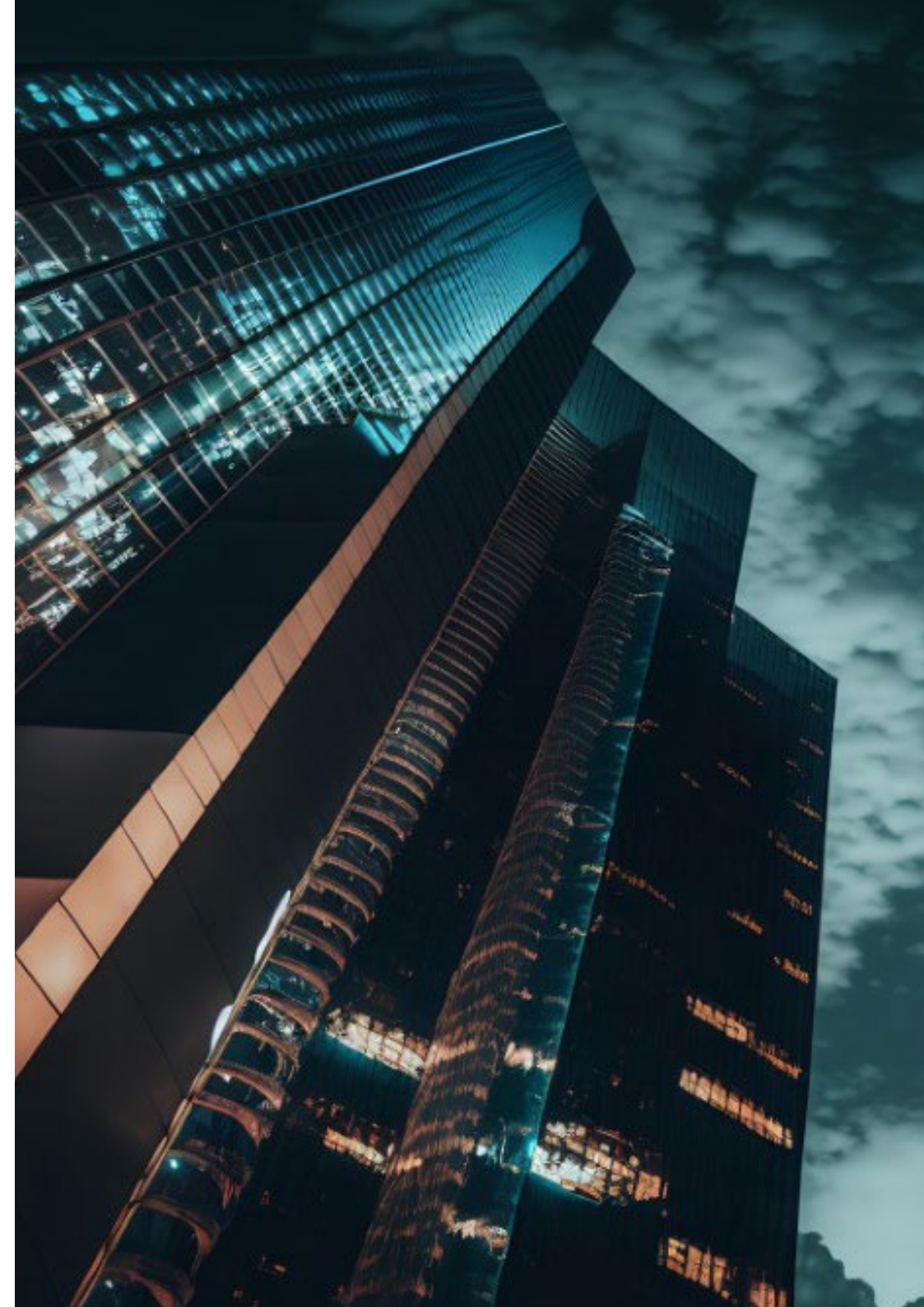
Country: Spain City: Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torrelodones, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

### Hospital HM Sanchinarro

Country	City
Spain	Madrid

Address: Calle de Oña, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Medicine

### Hospital HM Puerta del Sur

Country	City
Spain	Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Palliative Care
- Clinical Ophthalmology



Medicine

### Policlínico HM Cruz Verde

Country	City
Spain	Madrid

Address: Plaza de la Cruz Verde, 1-3, 28807, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Advanced Clinical Podiatry
- Optical Technologies and Clinical Optometry



Medicine

### Policlínico HM Distrito Telefónica

Country	City
Spain	Madrid

Address: Ronda de la Comunicación, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Optical Technologies and Clinical Optometry
- General and Digestive System Surgery



### Policlínico HM La Paloma

Country City  
Spain Madrid

Address: Calle Hilados, 9, 28850,  
Torrejón de Ardoz, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Advanced Operating Room Nursing
- Orthodontics and Dentofacial Orthopedics



### Policlínico HM Moraleja

Country City  
Spain Madrid

Address: P.º de Alcobendas, 10, 28109,  
Alcobendas, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Rehabilitation Medicine in Acquired Brain Injury Address



### Policlínico HM Sanchinarro

Country City  
Spain Madrid

Address: Av. de Manoteras, 10,  
28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Gynecological Care for Midwives
- Nursing in the Digestive Tract Department



### Policlínico HM Imi Toledo

Country City  
Spain Toledo

Address: Av. de Irlanda, 21, 45005, Toledo

Network of private clinics, hospitals and specialized centers distributed throughout Spain

**Related internship programs:**

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation

# 06

## General Conditions

### Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this educational entity undertakes to take out civil liability insurance to cover any eventuality that may arise during the stay at the internship center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.





## General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

**1. TUTOR:** During the Internship Program, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor, whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

**2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

**3. ABSENCE:** If the students does not show up on the start date of the Internship Program, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

**4. CERTIFICATION:** Professionals who pass the Internship Program will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** The Internship Program shall not constitute an employment relationship of any kind.

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Internship Program. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

**7. DOES NOT INCLUDE:** The Internship Program will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed.

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

# 07 Certificate

This **Internship Program in Allergology** contains the most complete and up-to-date program on the professional and academic scene.

After the student has passed the evaluations, they will receive their corresponding TECH Internship Program issued by TECH Technological University via tracked delivery\*.

The diploma issued by TECH will reflect the grade obtained in the test.

Title: **Internship Program in Allergology**

Duration: **3 weeks**

Course Modality: **Monday to Friday, 8-hour consecutive shifts**

Total Hours: **120 h. of professional practice**



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# Internship Program Allergology



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