

# Newsletter de la Société Marocaine de Néphrologie

## Février 2025

A ne pas manquer



الجمعية المغربية لطب الكلى  
SOCIÉTÉ MAROCAINE DE NÉPHROLOGIE

**SAVE THE DATE**

**21<sup>ème</sup>**

**CONGRÈS NATIONAL**  
DE LA SOCIÉTÉ MAROCAINE  
DE NÉPHROLOGIE

**8-10 Mai 2025**

**Palais des congrès Mövenpick Marrakech**



BY 

NEPHROMAROC.ORG





**5**

**FÉVRIER**

**2025**

**17H00- 19H30**  
(heure Paris)

**WEBINAIRE**

**Défaillance terminale d'organes:  
la solution de la transplantation**

Académie nationale de médecine de France  
et  
Facultés de médecine du Maroc

YONDER LE 20 DÉCEMBRE 1820



**INSCRIPTION GRATUITE**

**CLIQUEZ ICI**

Contact :  
stagiaire-cri@academie-medecine.fr



SOUS L'ÉGIDE DE LA SOCIÉTÉ MAROCAINE DE NÉPHROLOGIE

Le collège des néphrologues de Rabat-Salé-Kénitra  
Organise

Sa 21<sup>ème</sup> réunion scientifique



**Animée par:**

**Pr. Mina AGROU**  
Néphrologue  
Professeur de physiologie CHU Ibn Sina



**« Les infections urinaires communautaires:  
du diagnostic précis à la gestion personnalisée »**

**Pr. El Mehdi MAHTAT**  
Professeur d'Hématologie clinique,  
Hôpital militaire d'instruction Mohammed V-  
Rabat



**« Hématologie –Néphrologie:  
autour de cas pratiques »**

**Moderée par:**

**Pr. Zouhir OUALIM**



**Pr. Naïma OUZEDDOUN**



**Jeudi 06 Février 2025|18H30**  
**Palais des congrès Salé**

AVEC LE SOUTIEN DES LABORATOIRES

**Julphar**  
الخدمات الصيدلانية  
Sul Pharmaceutical Industries



Hosted by



**AFRAN 2025**  
**CONGRESS**

Tunis, Tunisia - April 15 - 18, 2025  
Raddison Blu Hotel & Convention Center  
(Ex. Laico Hotel)

**18<sup>th</sup>**

CONGRESS OF THE AFRICAN  
ASSOCIATION OF NEPHROLOGY (AFRAN)

JOINED TO **9<sup>th</sup>**

NORTH AFRICAN CONGRESS  
OF NEPHROLOGY

JOINED TO **12<sup>th</sup>**

CONGRESS OF THE TUNISIAN SOCIETY  
OF NEPHROLOGY DIALYSIS AND KIDNEY  
TRANSPLANTATION (ISTNDT)



Endorsed by:



ERA's endorsement is for the promotion of education in general; therefore, the specific content of the event/course is the responsibility of the organiser.

contact.afran2025@stndt.org

<https://www.afran2025.com>

## Meilleures publications de la néphrologie marocaine en 2024

Revue	IF	Auteur néphro	Titre	Référence
Environ Toxicol Pharmacol	4,1	Sqalli Tarik	Urinary biomonitoring of exposure to glyphosate and its metabolite amino-methyl phosphonic acid among farmers and non-farmers in Morocco.	Environ Toxicol Pharmacol. 2025 Jan;113:104620
Saudi Pharm J	3,9	Sqalli Tarik	The Anti-urolithiatic effect of the roots of <i>Saussurea costus</i> (falc) Lipsch agonist ethylene glycol and magnesium oxide induced urolithiasis in rats.	Saudi Pharm J. 2024 Mar;32(3):101967
BMC Med Ethics	3	Sqalli Tarik	Knowledge, attitudes, and practices of the ethics in medical research among Moroccan interns and resident physicians	BMC Med Ethics. 2024 Mar 20;25(1):33
Ann Med Surg (Lond)	1,7	Haddiya Intissar	Updates in the management of hypertension.	Ann Med Surg (Lond). 2024 Apr 23;86(6):3514-3521
Int J Néphrologie Renovasc	1,4	Sqalli Tarik	Impact of Sodium-Glucose Cotransporter-2 Inhibitors in the Management of Chronic Kidney Disease: A Middle East and Africa Perspective.	Int J Nephrol Renovasc Dis. 2024 Jan 3;17:1-16
Ecotoxicol Environ Saf	1,3	Sqalli Tarik	Association between pesticide exposure and end-stage renal disease: A case-control study from Morocco based on the STROBE guidelines.	Ecotoxicol Environ Saf. 2024 Dec;288:117360
Cureus	1,2	Sqalli Tarik	Could the Arginine-Fluoride Association Have a Real Impact on Caries Prevention?	Cureus. 2024 Oct 22;16(10):e72153
Afri J Prim Health Care Fam Med	1,2	Bentata Yassamine	A psychological insight of Moroccan adults' immunisation behaviour towards emergency vaccines.	Afr J Prim Health Care Fam Med. 2024 May 3;16(1):e1-e10
Cureus	1,2	Louad Inas	Effectiveness of Narrowband Ultraviolet Light in Chronic Kidney Disease-Associated Pruritus.	Cureus. 2024 Jan 31;16(1):e53340
Cureus	1,2	Sqalli Tarik	Strengths, Weaknesses, Opportunities, and Threats (SWOT) Analysis of Hemodialysis Electronic Health Record Implementation.	Cureus. 2024 Feb 22;16(2):e54675
Cureus	1,2	Sqalli Tarik	The Potential for Information Sharing Between an Electronic Medical Record System and the Moroccan Transplantation and Dialysis Registry: Examining Semantic Interoperability.	Cureus. 2024 Apr 5;16(4):e57672
PAMJ	0,72	Sqalli Tarik	Prevalence and determinant factors of depression and anxiety in people with chronic kidney disease: a Moroccan cross-sectional study	Pan Afr Med J. 2024 May 20;48:15.
Nephrol Ther	0,7	Louad Inas	[Access to kidney transplantation for patients with end-stage renal failure in Maghreb countries: state of art and recommendations].	Nephrol Ther. 2024 Feb 28;20(1):30-40
PAMJ	0,7	Bentata Yassamine	[Psychological impact of the COVID-19 pandemic on chronic haemodialysis patients in eastern Morocco: a cross-sectional study].	Pan Afr Med J. 2024 Jul 24;48:129.
Nephrol Ther	0,7	Ouzeddou n N - Benamar L	Impact of therapeutic education on the choice of renal replacement therapy. Moroccan monocentric experience	2023 Dec 20;19(7):555-567





## Urinary biomonitoring of exposure to glyphosate and its metabolite amino-methyl phosphonic acid among farmers and non-farmers in Morocco

Zineb ben Khadda<sup>a</sup>, Simona Gabriela Bungau<sup>b,c,\*</sup>, Souleiman El Balkhi<sup>d</sup>, Said Ezrari<sup>e</sup>, Andrei-Flavius Radu<sup>b,c,f</sup>, Tarik Sqalli Houssaini<sup>a,g</sup>, Sanae Achour<sup>h,i</sup>

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### ARTICLE INFO

**Keywords:**  
Toxicity  
Glyphosate  
Amino-methyl phosphonic acid  
Herbicides  
LC-MS/MS

### ABSTRACT

Glyphosate, a widely used herbicide in global agriculture, poses potential health risks due to environmental and dietary exposure. This study evaluated urinary concentrations of glyphosate and its metabolite, amino-methyl phosphonic acid (AMPA), among farmers and non-farmers in Morocco's Fez-Meknes region, using liquid chromatography-tandem mass spectrometry. Glyphosate was detected in 37.14 % of farmers, 35.41 % of indirectly exposed residents, and 24 % of controls, while AMPA was present in 5.35 % of farmers only. Average glyphosate levels were 0.176 µg/L in farmers, 0.098 µg/L in indirectly exposed individuals, and 0.069 µg/L in controls, with AMPA averaging 0.253 µg/L in farmers. Sociodemographic factors, such as education level, farm residence, and herbicide storage, significantly influenced glyphosate levels, while reusing pesticide containers strongly correlated with elevated glyphosate and AMPA concentrations. Estimated daily intakes (EDIs), hazard quotients (HQs), and a hazard index (HI) were calculated to analyze the obtained data from a health risk perspective. Farmers had higher EDI<sub>HI</sub> values for AMPA (0.303 µg/d/kg) and Glyphosate (0.140 µg/d/kg) compared to the control group, which had significantly lower values of 0.110 µg/d/kg for AMPA and 0.080 µg/d/kg for Glyphosate. The HQs were calculated considering 0.5 mg/kg BW/day as an acceptable daily intake (ADI), which EFSA has established as a health-based reference value for both analytes. The values obtained were lower than 1, indicating that the health risk from Glyphosate and AMPA exposure was considered acceptable for the studied population.

Harch et al. BMC Medical Ethics (2024) 25:33  
<https://doi.org/10.1186/s12910-024-01029-9>

BMC Medical Ethics

## RESEARCH

## Open Access

# Knowledge, attitudes, and practices of the ethics in medical research among Moroccan interns and resident physicians

Ibtissam El Harch<sup>1\*</sup>, Soumaya Benmaamar<sup>1</sup>, Nabil Tachfouti<sup>1</sup>, Moustapha Hida<sup>1,2</sup>, Mohammed Faouzi Belahsen<sup>1,3</sup>, Tarik Sqalli Houssaini<sup>1,4</sup> and Karima El Rhazi<sup>1</sup>

### Abstract

**Background** In Morocco, medical research ethics training was integrated into the medical curriculum during the 2015 reform. In the same year, a law on medical research ethics was enacted to protect individuals participating in medical research. These improvements, whether in the reform or in the enactment of the law, could positively impact the knowledge of these researchers and, consequently, their attitudes and practices regarding medical research ethics. The main objective of this work is to assess Moroccan physicians' knowledge, attitudes, and practices at the beginning of their careers (interns and residents) in medical research ethics.

**Patients and methods** This is a multicenter cross-sectional study conducted in 2021 among Moroccan physicians. Three scores were created and validated to assess physicians' level of knowledge, attitudes, and practices regarding research ethics. A descriptive analysis was carried out, followed by a univariate analysis and a multivariate analysis using multivariate binary logistic regression to study the factors associated with the different calculated scores.

**Results** A total of 924 physicians were included in the study, with an average age of 27.8 ± 2.2 years. 40.7% had a high medical research ethics knowledge score, and 68.8% had good attitudes. These two scores were positively associated with age and were statistically higher in residents and in physicians who had received training in medical research ethics during their medical curriculum. Only 29.9% of physicians who had participated in research studies had adequate practices with medical research ethics. This score was statistically higher in residents and in physicians who had heard about research ethics.

**Conclusion** A genuine introduction to ethics in the medical curriculum is essential to enhance researchers' knowledge, attitudes, and practices. This, in turn, can lead to an increase in both the quantity and quality of research

## Review

# Updates in the management of hypertension

Sara Ramdani, PhD<sup>a,\*</sup>, Intissar Haddiya, MD, PhD<sup>a,b</sup>

### Abstract

Hypertension is the leading cause of cardiovascular diseases and nephropathies. Its treatment and management require long-term follow-up which can be facilitated by the emergence of device-based therapies. Novel recommendations have been well described in the latest ESH guidelines as well as new risk factors have been identified. The authors summarized the published evidence on hypertension management. The authors also cited in this review novel treatment approaches in different settings and the intervention of medication adherence in treatment success. Such non-communicable disease requires long-term follow-up and monitoring, which is quite facilitated in the era of digitalization by cuff-less devices based on prediction tools.

**Keywords:** cuff-less devices, hypertension, management, medication adherence



## The Anti-urolithiatic effect of the roots of *Saussurea costus* (falc) Lipsch agonist ethylene glycol and magnesium oxide induced urolithiasis in rats

Naima Mammate<sup>a</sup>, Fatima Ezzahra El Oumari<sup>a</sup>, Hamada Imtara<sup>b,c</sup>, Salim Belchkar<sup>a</sup>, Ramzi A. Mothana<sup>c</sup>, Hinde E.L. Patemi<sup>d</sup>, Mohammed Danouche<sup>e</sup>, Sara Er-rahmani<sup>f</sup>, Nabil Boucetta<sup>g</sup>, Omar M. Noman<sup>h</sup>, Mahmoud Tarayrah<sup>b</sup>, Tarik Sqalli Houssaini<sup>a</sup>

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### ARTICLE INFO

**Keywords:**  
Calcium oxalate  
Struvite  
Urinary lithiasis  
In vivo  
*Saussurea costus* (Falc) Lipsch

### ABSTRACT

Phytotherapy, which involves the use of plant extracts and natural compounds for medicinal purposes, is indeed a promising alternative for managing urinary lithiasis. Many plants have been studied for their potential to prevent and treat kidney stones, and they may offer a more natural and potentially less harmful approach compared to conventional treatments. Additionally, phytotherapy may be more cost-effective. The aim of the present study was to investigate the antilithic potential of extracts and essential oils of *Saussurea costus* (Falc) Lipsch in two in vivo models, one on ethylene glycol-induced calcium oxalate crystal formation and the other to assess the effects of these extracts on magnesium oxide-induced struvite crystal formation. The experiment involved the administration of different doses of aqueous and ethanolic extracts of *S. costus* (200 and 400 mg/kg) and essential oils (25 and 50 mg/kg) to male Wistar rats, followed by the evaluation of various physiological, biochemical and histopathological parameters. The results demonstrated that the administration of *S. costus* essential oils and extracts had significant effects on the rats, influencing body weight, urine volume, crystal deposition, cytobacteriological examination of urine, and serum biochemical parameters. Histopathological examinations revealed varying impacts on the kidneys and livers of the treated rats. The findings suggest that *S. costus* extracts and essential oils may hold promise in inhibiting calcium oxalate crystal formation in vivo and influencing various physiological and biochemical parameters in rats. Overall, the 200 mg/kg ethanolic extract of *S. costus* demonstrated antilithic efficacy, did not exhibit signs of toxicity and reduced the number of

African Journal of Primary Health Care & Family Medicine

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Page 1 of 10 | Original Research

## A psychological insight of Moroccan adults' immunisation behaviour towards emergency vaccines



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Hind Khalil<sup>2</sup>  
Aasma Lekhfi<sup>3</sup>  
Naima Abda<sup>4</sup>  
Bouchra Oueib<sup>5</sup>  
Yasmine Bentata<sup>1,4</sup>

**Affiliations:**  
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<sup>2</sup>Maternal-Infant and Mental Health Research Laboratory, Faculty of Medicine and Pharmacy, Mohammed First University, Oujda, Morocco

<sup>3</sup>Department of Psychiatry, Mohammed VI University Hospital, Oujda, Morocco

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**Background:** The psychology of vaccination behaviour explains how thoughts and feelings influence people's willingness to receive vaccines. Understanding vaccination behaviour is crucial to successfully managing vaccination campaigns.

**Aim:** Investigating factors associated with immunisation stress among students at Mohammed First University.

**Setting:** This study was conducted on students at Mohammed First University institutions.

**Methods:** This study is a descriptive and analytical cross-sectional study. It was conducted on 305 students at Mohammed First University institutions using a 90-item questionnaire.

**Results:** Three hundred and five participants have been included in this survey. Overall, 65.5% of the students in our sample had a positive perception towards COVID-19 vaccines. Nevertheless, 34.5% had a negative opinion regarding immunisation. According to the analysis of perceived stress scale, 40% ( $n = 122$ ) of students expressed moderate to high stress regarding vaccination. Students with a negative perception of vaccine showed a higher level of stress than those with a positive one. Stressed students tended to be older than others, coming from other institutions, other than the medical faculty, and were renting alone. Vaccine accessibility was the less significant reason associated with stress regarding vaccination. Moreover, participants with high levels of confidence in social media, exhibited higher stress. Nevertheless, those who believed in scientific journals were significantly less stressed.

**Conclusion:** These results reflect a positive perception and acceptance of vaccines, with a considerable level of stress regarding vaccination.

**Contribution:** This study suggests emphasising the mental health of Moroccan young adults, to better sensitise and inform them about immunisation.

**Keywords:** vaccination behaviour; stress; COVID-19; young adults; university students; Morocco.

## ANNALS OF MEDICINE & SURGERY

## OPEN



## Evénements passés



Sous l'égide de la société marocaine de néphrologie  
**le collège des néphrologues du centre**  
 ORGANISE: LA 4 ÈME JOURNÉE DES IDE EN DIALYSE  
 Sous le thème:  
**Procédures en salle de dialyse**  
 LE 28/12/2024 à IFRANE- CENTRE DE CONFERENCE ALKHAWKYN

- 10H00: ACCUEIL ET REMISE DES BADGES
- 10H30-11H00: FONCTIONS ESSENTIELLES DU REIN- DR S MIKOU
- 11H00-11H30: PROCÉDURES D'HYGIÈNE EN SALLE DE DIALYSE- PR G ELBARDAI
- 11H30-12H00: PROCÉDURES ( DEGASAGE, PONCTION, RINCAGE, RESTITUTION) -PR G ELBARDAI
- 12H00-12H45: IMPÉRATIFS DE LA BONNE DIALYSE- PR Y ALLATA
- 12H45-13H00: DISCUSSION GÉNÉRALE

**DEJEUNER**

- 14H30-15H00 : PROCÉDURES DE DÉSINFECTIONS: GÉNÉRATEURS, SALLE DE TRAITEMENT D'EAU -PR BA CHOUHANI
- 15H00-15H30: MONITORING DE LA VA -PR BA CHOUHANI
- 15H30-16H15: RISQUES HÉMORRAGIQUES ANTICOAGULATION EN DIALYSE -PR N KABBALI

**PAUSE CAFÉ**

- 17H00-18H00: DISCUSSION GÉNÉRALE IMPLEMENTER LES BONNES PRATIQUES EN SALLE DE DIALYSE  
 PANEL- PR SQALLI- PR N KABBALI- DR KIKHSSI

**20H00: DINNER ET SOIRÉE**

SMN SAR CHMO

**LE COLLÈGE DES NÉPHROLOGUES DE L'ORIENTAL  
 ET LE SERVICE DE NÉPHROLOGIE DU CHU  
 MOHAMMED VI D'OUJDA**

**ORGANISENT UN ATELIER INTERACTIF**  
**Le Samedi 14/12/2024 à 10h00**  
 A  
**La faculté de Médecine et de Pharmacie  
 d'Oujda**

**LES URGENCES VITALES DANS UN CENTRE  
 D'HEMODIALYSE**

**Animé Par :**

كلمة من  
 كلية الطب والصيدلة



Sous l'égide de la Société Marocaine de Néphrologie et du laboratoire de Biosciences et Santé de la FMPM  
 Le service de Néphrologie du CHU Mohamed VI de Marrakech Organise :

**Les 12 JOURNÉES DE TRANSPLANTATION  
 RENALE TOURS - MARRAKECH**

**Les 22 et 23 novembre 2024 A LA FACULTE DE MEDECINE ET DE PHARMACIE DE MARRAKECH**





Mohammed Benghanem



قصة واقعية ليوسف أقطار.. من غرفة العمليات إلى قمة النجاح في ريادة الأعمال والسينما

canal13.ma

ما يلهمنا وما يجعلنا نعشق مهنتنا  
شكرا للمريض على الثقة  
شكرا للأم المتبرعة على العطاء و على الثقة

<https://canal13.ma/article/26427>





**Tarik SQALLI HOUSSAINI** • 1er  
Néphrologue  
1 mois • 0

Il n'y a pas que les pesticides. Les herbicides (et le très controversé glyphosate) sont également très largement utilisés dans notre région... .. plus



Urinary biomonitoring of exposure to glyphosate and its metabolite amino-methyl phosphonic acid among farmers and non-farmers in Morocco

Zineb ben Khadja<sup>1,2</sup>, Simona Gabriela Burgea<sup>3,4</sup>, Souleiman El Bakhi<sup>5</sup>, Said Emri<sup>6</sup>, Anghel-Flavian Radu<sup>7,8</sup>, Tarik Sqalli Houssaini<sup>9,10</sup>, Samir Achou<sup>11</sup>

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ARTICLE INFO

123

4 commentaires

3 republications



**Mohamed Amine KHALFAOUI** • 1er  
Assistant professeur chez Université Mohammed VI d...  
1 mois • 0

Un immense pas en avant pour la médecine et pour l'humanité !  
Félicitations à l'équipe médicale ( Néphrologues,Urologues,Vasculaires,anesthésistes et biologistes) pour cette première greffe rénale réalisée avec succès pour un patient malien 🇲🇱  
Ce type de progrès est une véritable source d'espoir pour de nombreux malades à travers le monde. Que cette avancée inspire davantage d'efforts pour rendre les soins de santé spécialisés accessibles à tous, quel que soit leur lieu d'origine.  
Bravo à tous les acteurs impliqués dans cette réussite !  
#Transplantation\_rénale



**Centre Mohammed VI de Formation Co...**  
4 278 abonnés  
3 sem. • Modifié • 0

Retour en images sur la cérémonie de remise des diplômes du DU Dialyse Péritonéale et Pose de Cathéter, qui s'est tenue le 6 janvier 2025 ... plus



**Bahadi Abdelaali** • Vous  
professor of nephrology Dialysis and kidney transplan...  
1 sem. • 0

A journey of a thousand miles begins with a single step. Glad to announce that our PD training and diploma « peritoneal dialysis and PD catheter insertion » ... plus  
Afficher la traduction

The ISPD Education Committee is pleased to confirm its endorsement of the University Course titled "Peritoneal Dialysis and PD Catheter Insertion by Nephrologist" from March till October 2025. You can find the ISPD Endorsed Meetings listed on our website here: [ISPD Endorsed Meetings](#).

If you'd like to update the picture, text, or any other details related to your meeting on the ISPD website, please don't hesitate to reach out to me.

I've attached the ISPD logo (in many different formats), which you're welcome to use for promoting your event.



**nadiakabbali**  
Palais Des Congrès Bordeaux



**Tarik Sqalli Houssaini**  
29 déc. 2024 • 0

خصصت القناة الثانية مشكورة حلقة كاملة من برنامج "صحتنا جميع" يومه الأحد 29 دجنبر 2024 لأنشطة مصلحة طب الكلى بالمستشفى الجامعي الحسن الثاني بفأس.  
هي مناسبة لتقديم الشكر الجزيل لكل العاملين بالمصلحة على تفانيهم في خدمة المرضى، ولكل شركائنا، وكذا كل من يدعم المصلحة من قريب أو بعيد. Afficher la suite



youtube.com

صحتنا جميع : الأحد 29 دجنبر 2024

Professor **Yassamine Bentata** was listed among the most influential scientists in the world for 2024, published by Stanford University in collaboration with the scientific publishing house Elsevier. This ranking places her among the top 2% of the most influential scientists, reflecting her significant scientific contributions. She is known for her excellence in dialysis, acute kidney injury, kidney diseases, kidney transplantation, and clinical research. As one of the prominent Moroccans in this field, she serves as a professor at Mohammed First University in Oujda.

Show translation



