

MEETING



KSN 2021 FULLY VIRTUAL

SEPTEMBER 02 - 05

New journey of KSN to the world

The 41st Annual Meeting of the Korean Society of Nephrology

PROGRAM BOOK

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Fresenius Medical Care is the world's leading provider of dialysis products and services, offering life-sustaining care for people living with chronic kidney failure.

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Theranova

PROVIDE EXPANDED HD(HDx)

- Theranova*는 기존 HD 혹은 HDF로는 잘 제거되지 않는 Large middle molecules(25 kDa to < 60 kDa)를 보다 효과적으로 제거하며, 알부민 손실은 제한적입니다!
- β₂-microglobulin 및 kappa, lambda free light chains의 투석 전 수치가 Theranova 투석기를 사용한 HDx를 실행하고 3개월과 6개월 후에 감소하였습니다.

(41명의 HD 환자를 대상으로 한 다기관 관찰연구 결과)^{2**}

- 하지불안증후군 기준이 6개월 후 약 50 % 감소되었습니다. (박스터의 일반 HD 환자를 대상 대규모 관찰연구 결과)^{3***} 더 작은 규모의 전후 비교 연구도 patient-reported symptom burden 결과에는 큰 차이는 없었습니다. ^{4**}
- 모든 HD 환자에게 적용 가능합니다.

RETAIN HD SIMPLICITY

- HD 시설 및 장비를 그대로 사용할 수 있습니다: HDF 전용 모니터나, 특정 수준 이상의 수질 및 수질 안정성 검사가 필요하지 않습니다.⁵
- HDx는 **HD모드에서 Theranova를 사용하는 것만으로 구현** 가능합니다.

Ref. 1. Kirsch AH, et al. Performance of hemodalysis with novel medium cut-off dialyzers. Nephrol Dial Transpl 2017; 32(1):165-72. 2. Cantaluppi V, et al. Removal of large-middle molecules on expanded hemodalysis (hDx): a multicentric observational study of 6 morths follow-up. ASN 2018 Kidney Week Abstract TH-POSS 7. 3. Sarabrish M, et al. Outpet of large middle with expanded hemodalysis by the Theranova dialyzer in RTS Colombia. ASN 2018 Kidney Week Abstract TH-POSS 4. Kidneysmanny R, et al. Till Realizing mid of cut of value membrane desarrace of altivum and light chairs in hemodalysis patients (ReMOWL+ID): a safety and efficacy study. ASN 2018 Kidney Week Abstract TH-POSS 5. 5. Mazairac A, et al. The cost-utility of hemodalitration versus hemodalysis in the Convective Transport Study. Nephrol Dial Transplant; 28: 1865-1873.

^{*}HDF 또는 HF 모드에서 Theranova 투석기 사용 금지

^{**} 학회 초록에 게재된 데이터를 기반으로 함-자세한 내용은 참고 문헌을 확인하십시오.

^{***} 학회 초록에 게재된 데이터를 기반으로 함·자세한 내용은 참고 문헌을 확인하십시오. 하지불안증후군(Restless Leg Syndrome)은 여러 개의 2차 유효성 평가 변수 중 하나입니다.

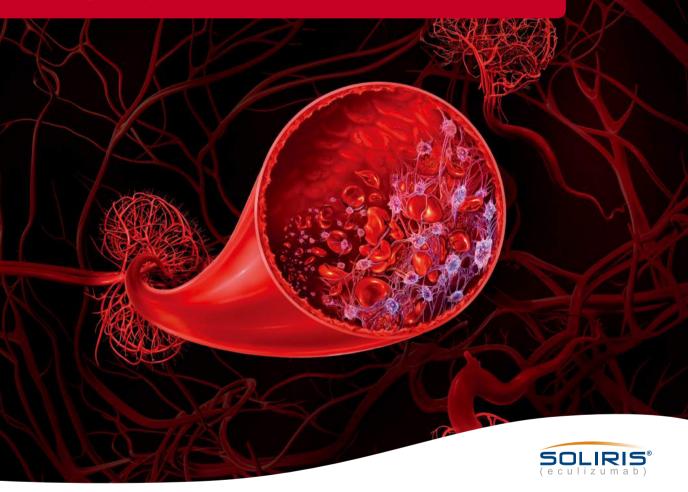


JARDIANCE" (empagliflozin) 10mg, 25mg

on CV events in patients with type 2 diabetes and established CV disease



Chronic, uncontrolled complement activity in aHUS leads to ongoing endothelial injury, organ damage, and sudden death^{2,3}



References: 1, Laurence J, Clin Adv Hematol Oncol, 2016;14(suppl 11):1-15, 2, Legendre CM, et al, N Engl J Med, 2013;368:2169-2181, 3, Noris M, et al, Nat Rev Nephrol, 2012;8:622-633,

Selected prescribing information

조단으다면 prescribing information

전문의다품

기계점에 아기 철썩스로 등자 (기계 한 발착이 다음 하는 최고기) 발작성 이건 철썩스로 등(PH+1 Paranyemal Noctumal Hemoglobinuria) 문항을 입소시기기 위한 발착이 이간 철석스로 등(PH+1 Paranyemal Noctumal Hemoglobinuria) 본 정을 이 이 가 함께 가장 철생의 이 비를 보고 자신을 하는 보고 자신을 이 다음 보고 자신을 하는 보고 자신을 하는







Weekly

Biweekly

Monthly





INDICATIONS

2.Chemotherapy induced anemia in solid cancer patients

DOSAGE AND ADMINISTRATION

The usual dose of NESP in adult patients is 20 µg, to be administered as a single intravenous injection once weekly.

Initial dose at the switching from erythropoietin preparations: See Precautions related to Dosage and Administration

-Maintenance dose

When correction of anemia is achieved, the usual dose of NESP in adult patients is 15-60 µg as when consecution of animals as curievely in the state dose of west in about patients is 19-out particularly adarbepoet alfa (genetical recombination), to be administered as a single intravenous injection once weekly. If alleviation of anemia is maintained by once weekly injection, the frequency of administration can be changed to once every two weeks with an initial dose inequency or administration can be charged to once every own verses With an Inflat of set to be two-fold of the dose in the once weekly injection. In this case, the usual dose in adult patients is 30-120 µg administered as a single intravenous injection once every two weeks. In all cases, the doseshould be adjusted in view of the degree of anemic symptoms and the patients age, and should not exceed 100 µg as a single injection. The target of anemia correction is around 11 g/dl of hemoglobin level.

<Peritoneal dialysis patients and patients with chronic kidney disease not on dialysis>

Initial access of NESP in adult patients is 30µ to be administered as a single injection once
every two weeks subcutaneously or intravenously.
 Initial dose at the switching from erythropoietin preparations: See Precautions related

to Dosage and Administration

When correction of anemia is achieved, the usual dose of NESP in adult patients is 30-120µg as

darbepoetin alfa (genetical recombination), to be administered as a single injection once every two weeks subcutaneously or intravenously. If alleviation of anemia is maintained by once every two weeks injection, the frequency of administration can be changed to once every four weeks with a initial dose set to be two-fold of the dose in the once every wowers injection. In this case, the usual dose in adult partners is 60-180 up administered as a single injection once every four weeks subcutaneously or intravenously. In all cases, the dose solved to district the set of the dose in the once in the contravenously. should be adjusted in view of the degree of anemic symptoms and the patient's age, and should not exceed 180 µg as a single injection. The target of anemia correction is around

<Precautions related to Dosage and Administration>

I. Initial dose at the switching from an erythropoietin preparation.

When NESP is started in substitution for an erythropoietin preparation, the dose and the frequency of administration should be determined on the basis of the dose of the erythropoietin preparation that has been used. See the table (package insert).

1) Patients who have been treated with an erythropoietin preparation twice weekly or three Praietts with have been teated with an etymological preparation twice weekly of times times weekly Calculate the total dose of the erythropoletin preparation administered during the week before the switching, and then determine the initial dose of NESP according to the table below. The treatment should be started on once weekly basis.

2) Patients who have been treated with an erythropoletin preparation once weekly or once every two weeks Calculate the total dose of the erythropoletin preparation administered during the two weeks before the swirkting, and then determine the initial dose of NESP according to the table below. The treatment should be started on once every two weeks basis.(See the insert paper,

2. Dose adjustment

If dose adjustment is required (for example, when the appropriate increase in the hemoglobin concentration or the hematocrit levels can not be achieved in correction phase, or when the hemoglobin concentration or the hematocrit level deviates from the target range for successive

two weeks in maintenance phase), the dose should be increased or decreased according to the table below. Any dose increase should be performed stage by stage in principle.

PRECAUTIONS

STORAGE

Store in a lightproof container at 2-8 °C and avoid freezing

PACKAGING

1 syringe, 10 syringes for NESP 20µg, 30µg, 40 µg, 60µg, 120µg, respectively

MANUFACTURED BY :

Taiyo Pharmaceutical Co., Ltd. 1040-22 Matunoki Takayama-shi Gifu, Japan Kyowa Hakko Kirin Co., Ltd. 100-1 Hagiwara-machi, Takasaki-shi, Gunma, Japan

IMPORTED BY :



11F, Asia Tower, 430, Nonhyeon-ro, Gangnam-gu, Seoul, 06223, Rep. of Korea TEL: 02-3471-4321 FAX: 02-3471-4322

The Right Key

to High Bleeding Risk Patients in HD & CRRT!



HD: hemodialysis, CRRT: continuous renal replacement therapy

FUTHAN is an anticoagulant during extracorporeal blood circulation in patients with bleeding complications or bleeding tendency.¹

- Due to its short half life (5~8 min), its anticoagulant activity is almost limited to extracorporeal circuit.^{2,3,4}
- Increase of bleeding risk was not noted in HD patients with bleeding risk. 5,6,7
- The filter-life is significantly prolonged during CRRT^{8,9,10}





Prescribing drug MFDS Category number: 399

Summary of Prescribing Information¹

[PRODUCT NAME IN KOREA] • Futhan for Inj. (nafamostat mesilate) • Futhan50 for Inj. : 1 vial contains 50mg of nafamostat mesilate [INDICATION AND USAGE] 1. For improvement of acute symptoms of pancreatitis, acute exacerbation of chronic pancreatitis, acute pancreatitis, ERCP—induced acute pancreatitis, acute pancreatitis, ERCP—induced acute pancreatitis, acute pancreatitis, excurate pancreatitis, ex

References 1, Prescribing information of Futhan for Inj., Futhan 50 for Inj., NeDrug, [Cited 2019 MAR 27] Available from: http://nedrug.mrids.go.kr/2, H. Hirasawa, Theoretical consideration and practice of CHDF, Japan總合医学史:1998, p.25—30, 3. Ohlake Y et al, Contrib Nephrol, 1991;93:215—7. 4. Shinoda T. Contrib Nephrol, 2010;166:119—25, 5. Akizawa T et al, Antificial Organs, 1991;14:209—12, 6. Kim HC et al, Korean J Nephrol, 2004;20(5):920—6, 7. Akizawa T et al, Nephron, 1993;64(3):376—81, 8. Park II et al, Korean J Nephrol, 2009;28(3):205—10, 9. Hwang SD et al, Int J Artif Organs, 2013 Mar;36(3):208—16, 10. Choi JY et al, Medicine (Battimore), 2015 Dec;94(52):e2392





TORECA

TOTAL RENAL CARE



보령제약 Renal 본부는 **TOTAL RENAL CARE**를 제공합니다.



Samsca® Tablet ADPKD product information summary [INDICATION] To slow the progression of cyst development and renal insufficiency of autosomal dominant polycystic kidney disease (ADPKD) in adults with CKD stage 1 \sim 4 at initiation of treatment with evidence of rapidly progressing disease. [DOSAGE & ADMINISTRATION] Tolvaptan must only be prescribed by physicians who got registered in Risk Management Program to the patients who have agreed and signed on conditions specified in Risk Management Program. Patients the hold follow this program. And, to mitigate the risk of significant and/or irreversible liver injury, blood testing for hepatic transaminases and bilirubin is required prior to initiation of SAMSCA, continuing monthly for 18 months and at regular 3 monthly intervals thereafter. The initial dose is 60 mg tolvaptan per day as a split-dose regimen of 45 mg + 15 mg (45 mg taken upon waking and prior the morning meal and 15 mg taken 8 hours later). The initial dose is to be titrated upward to a split-dose regimen of 90 mg tolvaptan (60 mg + 30 mg) per day and then to a target split-dose regimen of 120 mg tolvaptan (90 mg + 30 mg) per day, if tolerated, with at least weekly intervals between titrations. Dose titration has to be performed cautiously to ensure that high doses are not poorly tolerated through overly rapid up-titration. Patients may down-titrate to lower doses based on tolerability. Patients have to be maintained on the highest tolerable tolvaptan dose. **Samsca® Tablet has an indication for hyponatremia as well. For further information, please refer to the latest prescribing information at www.otsuka.co.kr.





요독소를 흡착하여 투석 시작을 지연시키는

"만성신부전 진행억제제" "3

spherical adsorptive carbon 2g

크레메진[®]세립

[제품명] 크레메진세립(구형흡착탄) [성분 및 함량] 1표(2g) 중 구형흡착탄 2g [효능효과] 만성신부건증(진행성)에 대한 요독증 중심의 개선 및 투석도입의 지연 [용법용량] 성인 1일 3회, 1회 2그람(1포) 복용 [사용상의 주의사항] 1. 다운 환자에는 투여하지 말 것 - 소화관 통과정애가 있는 환자 (배설에 지정을 초래할 염려가 있다) ※기타 자세한 사랑은 제품설명서를 참고하십시오.

ínno.N

에이치케이이노엔 주식회사 서울특별시 중구 을지로 100 파인에비뉴 A동 6-8층 http://www.inno-n.com | Tel.080-700-8802

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- 포스레놀®은 츄어블 정제와 경구용 산제 두 가지 제형으로 환자의 편의성을 높였습니다.2
- 포스레놀®은 전세계에서 10년 이상 안전하게 사용된 비칼슘계열의 인 결합제입니다.3

Reference 1. Patrick Martin, et al. Am J Kidney Dis. 2011;57(5):700-706 2. Fosrenol® SmPC, Mar 2018 3. Hutchison AJ, et al. Nephrology (Carlton). 2016 Dec;21(12):987-994.

[Prescribing Information]

포스레놀정500/750밀리그램 포스레놀산1000밀리그램

[주성분] Lanthanum Carbonate (란타늄 탄산염) 포스레놀정500일리그램 1정(약954mg) 중 란타늄으로서 500mg, 포스레놀장750일리그램 1정(약 1431mg) 중 란타늄으로서 750mg, 포스레놀장1000일리그램 1포(약 1908mg) 중 란타늄으로서 1000mg [효능·효과] 혈액투서이나 복막투석을 받는 만성신부전 환자 또는 인 제한 식이요법만으로 혈정 인산 수치가 충분히 조절되지 않고 1.78 mmol/L (약 5.5mg/dL) 이상인 투석을 하지 않는 만성 신장 질환 환자의 고안산혈증 치료 [용법・용량] 성인(65세 이상의 고령자 포함): 포스레놀은 매 식사와 함께 혹은 식후 즉시 분복한다. 정제의 경우, 이 약을 그대로 삼키지 않고 반드시 씹어서 복용해야 한다. 씹는 것을 용이하게 하기 위해 이 약을 부수어 복용할 수 있다. 분말의 경우 이 약을 소량의 부드라에 섞어서 즉시(15분이나) 복용해야 한다. 이 약은 녹지 않으므로 복용을 위해 액체에 녹이지 않는다. 협정 인사농도는 란탄으로서 750mg/일 용량에서 조절되기 시작하였고, 대부분의 환자에서 1500~300mg/일 용량에서 적정 혈청 인산농도로 조절되었다. [이상반응] 가장 흔하게 보고된 이상반응은 두통 및 알리지 피부 반응을 제외하고 위장관계 중상이었다. 위작관계 중상이었다. 위장관계 중성 보다 보다 보다 보다 보다 보다 되었다면 보다 보다 보다 되었다면 보다 되었다면 보다 되었다면 보다 보다 되었다면 보다 보다 되었다면 보다 되었다면 보다 되었다면 보다 보다 되었다면 보다 되었다면 보다 되었다면 보다 되었다면 보다 되었다면 보다 되었다면 보다 되었다면 보다 되었다면 보다 되었다면 보다 보다 되었다면 보다

* 보다 자세한 내용은 제이더블유중의제약 홈페이지(http://www.w-pharma.co.kr)나 식품의약품안전처 온라인의약도서관(http://drug.mlds.go.kr)를 참고하시기 바랍니다.





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만성콩팥병 환자의 신기능 악화 지연을 위해,

포시가®로 화자를 지켜주세요



• SGLT2i 중 최초이자 유일하게 만성 콩팥병 적응증 획득¹

•당뇨 유무와 관계없이 만성 콩팥병 환자에서 **신기능 악화, ESKD,** 신장 또는 심혈관 질환으로 인한 사망위험 39% 감소2.

• 제 2형 당뇨환자에 **알부민뇨 개선 및 악화감소** 이점³

* The primary outcome was a composite of a sustained decline in the estimated GFR of at least 50%, end-stage kidney disease, or death from renal or cardiovascular causes. (HR 0.61, 95% CI 0.51-0.72; P<0.001)

SGLT2i, sodium-alucose cotransporter 2 inhibitor; ESKD, end-stage kidney disease; HR, hazard ratio; Cl, confidence interval

1. 포시기에 국내 허기사항(https://nedrug.mfds.go.kr, as of 12-Aug-2021) 2. Heerspink HJL et al. Dapagliflozin in Patients with Ch DECLARE-TIMI58. Diabetes Care. 2021 Jul 7:dc210076. doi: 10.2337/dc21-0076. Online ahead of print.

포시가 정10밀리그램 (다파글리플로진프로판디올수화물)

익러스트는 가상의 화자인니다

10일 1명 (약 260mg) 중 유호생동: 다파글리콜로진프로판디올수회을 (뱀규) 12.3mg (다파글리플로진으로서 10mg) 참가제: 무수유당(동물유래성본, 기원동물: 소, 사용부위: 우유), 미결정셀룰로오스, 스테이르산미-1개술, 오파드라이노란색(85F92582), 이산화규소, 크로스포비돈

·병용요법 행당이 충분히 조절되지 않는 제7형 당노병 환자 중 실험관계 질환이 확인되었거나 실험관계 위험되자가 있는 환자에서 설립관계 서건 발생에 대한 명령은 '사용상의 주의사항, 11, 전문가를 위한 청보 3일상시현 정보' 항을 참고한다 2. 만성 실부한 좌성실 수축가등이 저하는 만성 실부전(NYHA Class IHV) 환자에서 실혈관 정원으로 인한 사망 및 심부전으로 인한 임원 위험성 장소 이 약은 다른 상부전 표준보업과 병용에여 투어되다.

이 목근 다른 음구인 표준표입의 항용이어 구인인다. 3. 만성신장병: 만성 신장병 환자에서 추정 사구체 여과율 [estimated glomerular filtration rate (eGFR)]의 지속적인 감소, 말기 신장병에 도달, 심혈관 질환으로 인한 사망 및 신장 관련 사망

개계였다.년 단독 요법 및 우가 병용 요법 이 악의 권장 용량은 단독 요법 및 안출린 등 다른 절당 강하제와의 추가 병용 요법에 대하여 1일 기회 10mp이다. 이 약을 인출된 또는 설포날무리아와 같은 안출린 분비 촉진제와 병용에 사용하는 경우, 저열당의 위험을 줄이기 위해 더 낮은 용량의 안출린 또는 안출린 분비 촉진제를 보고해올 고려할 수 있다.

시작하는 것은 권장되지 않는다. - 투석 중인 환자 : 이 약을 투여하지 않는다.

ㅜ ^^... 교통자(c 65세) 연령에 근거한 용량 조절은 권장되지 않는다. 소아 만 19세 미만의 소아에 대한 다파글리플로진의 유효성과 안전성은 확립되지 않았다. 관련 자료가였다.

... - . ዜ <u>투여방법</u> 이 약은 음식 섭취와 관계없이, 1일 1회 하루 중 언제라도 경구 투여할 수 있다. 정제는 통패로

삼켜(¤한다. [**사용상 주의사항]** 1**. 다음 환자에는 투여하지 말 것** 1) 이 약의 주성분 또는 첨가제에 대한 과민반응 병력이 있는 환자

2) 제1형 당노병 또는 당노병성 케몬산중 환자 3) 이 약은 유당 무수물을 함추한다. 결락토오스 불내성(galactose intolerance), Lapp 유당 본핵요소 결캠당(app lactase deficiency) 또는 포도당-결락토오스 흡수장에(glucose-galac-tose malabsorption) 등의 유건적인 문제가 있는 환자에게는 투여하면 안된다. 식무적 종인 환자. 2. 다음 환자에는 신흥히 투여할 것

자하 또는 지명인 위명이 응가할 수 있다. 이라면 특징들을 위한 전략에 대한 이 악의 특이를 사사하기 전체에서 상대된 시간 기능에 대한 뭔가가 필요하며, 투이를 시작한 후 저렴한 중상 및 정류와 신가능에 대해 모나타당 있다. 형당 조절에 대한 먼가가 필요하며, 투이를 시작한 후 저렴한 중상 및 형당 조절에 대한 이 역의 유교실을 신청 기능에 따라 다르다. 중등도의 신청에가 있는 현재에서 명당 조절 유료성이 강소하며 6단대 45ml, //min // 72m² 미만인 제2명 당표한에서 열당조절 목적인으로 이 약을 투여하는 것은 전청되지 않는다면 함당 공항 함을 가는 중등도의 신청에 환자에서 이 약을 투여한 파일 전청되지 않는데 함당 공항 함을 가는 중등도의 신청에 환자에서 이 약을 투여한 파일자들은 위약을 투여한 피장 기술 등도와 인숙한 환자에서 이 약을 두이한 파일자들이 함께 그래이다. 인, 부검상생 호르몬(PTH) 성공 및 적합일의 이상반응을 나타나는 배팅이 납 설닷도 이 약은 6단대 25ml/ml/7.73ml 미만인 환자에게 투어를 시작한 경험이 제한적이다. 6단대 25ml/ml/7.73ml 미만인 환자에게 투어를 시작한 경험이 제한적이다. 6단대 25ml/ml/ml/7.73ml 미만인 환자에게 투어를 시작한 경험이 제한적이다. 6단대 25ml/ml/ml/7.73ml 미만인 환자에게 투어를 시작한 경험이 제한적이다. 6단대 25ml/ml/ml/7.73ml 미만인 한 생산 심부진 환자 및 만성 신경병 환자에서 이 약의 투여를 시작하는 것은 권장되지 않는대용합 용량 항 참조).

개정년월일 : 2021년8월12일 보다 자세한 사항은 제품설명서 전문을 참고하시기 바랍니다. aFOR20210820

- 전문의약품

OPTIMIZE TACROLIMUS TROUGH LEVEL!^{1,2}





'권장 최저혈중약물능도: 임상 현장에서 이식 후 초기의 최저혈중약물능도는 관이식 환자의 경우 5-20 ng/mL, 신이식 환자의 경우 10-20 ng/mL이었다. 이후 유지기간 동안의 최저혈중약물능도는 관이식 및 신이식 환자에서 5-15 ng/mL이었다.

1.프로그램》제품일본제(역용발:2020.00.14).
2. Wiebs C, et al. Class IE-plet Mismatch Modulates Tacrolimus Trough Levels Required to Prevent Donor-Specific Antibody Development, J Am Soc Nephrol 2017 Nov;28(11):3353-6;



보다 자세한 안전성 정보는 제품설명서를 참고해 주십시오.(제품설명서 작성일: 프로그랍® 캡슐 2020.05.14)

The 41st Annual Meeting of the Korean Society of Nephrology



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| E-poster Presentation List | 51 |
| Sponsors | 77 |

Overview

| Title | The 41st Annual Meeting of the Korean Society of Nephrology (KSN 2021 FULLY VIRTUAL MEETING) |
|----------------------|--|
| Date | September 2 (Thu) - 5 (Sun), 2021 |
| Hosted by | The Korean Society of Nephrology, Korean Nephrology Research Foundation #301, 23, Apgujenog-ro 30-gil, Gangnam-gu, Seocho-gu, Seoul 06622, Korea Tel. +82-2-3486-8736 Fax. +82-2-3486-8737 E-mail. ksn@ksn.or.kr |
| Official Language | English, Korean |
| Program | Opening Ceremony, Plenary Sessions, Invited Lecture Sessions, Oral & Poster Sessions, Technical Exhibition |

The Korean Society of Nephrology Organization

Organizing Committee

| Congress President | Won Kim, M.D. | Congress Vice-President | Joo Hoon Lee, M.D. Yoon Chul Jung, M.D. |
|---|---|--|--|
| Auditor | Course lunes Vies M.D. | President | Chul Woo Yang, M.D. |
| Auditor | Seung Jung Kim, M.D. | President-elect | Chun Soo Lim, M.D. |
| Secretary General | Bum Soon Choi, M.D. Vice-Secretary General | | Gang Jee Ko, M.D. Byung Ha Chung, M.D. Jang-Hee Cho, M.D. |
| Editor in Chief, Kidney Research and Clinical Practice | Tae-Hyun Yoo, M.D. | Director, the Scientific Programs | Sang Ho Lee, M.D. |
| Director, the External Affairs and Cooperation | Beom Seok Kim, M.D. Seong kyun Kim, M.D. | Director, the Collaborative Studies | Sang Heon Song, M.D. |
| Director, the Clinical Practice Guidelines | Kook-Hwan Oh, M.D. | Director, the Insurance and Legal Affairs | Seok Joon Shin, M.D. Hyung Jong Kim, M.D. Seong Nam Kim, M.D. |
| Director, the Public Relation | Eun Hui Bae, M.D. | Director, the Dialysis Quality Assurance | Young-Ki Lee, M.D. Ki Ryang Na, M.D. Jung Geon Lee, M.D. |
| Director, the Planning | Chan-Duck Kim, M.D. | Director, at Large | Kyung Pyo Kang, M.D. Hye Ryoun Jang, M.D. Won Min Hwang, M.D. Myung-Gyu Kim, M.D. Hyo Sang Kim, M.D. |
| Director, the Training and Education | Seung Yeup Han, M.D. Se joong Kim, M.D. | Director, the KORDS | Yong Kyun Kim, M.D. Jong Ha Park, M.D. |

Advisory Board

| Acute Kidney Injury | Won Kim, M.D. | Diabetes and Obesity | Sang Youb Han, M.D. |
|--|---------------------|--------------------------------------|---------------------|
| Dialysis (HD) | Young-II Jo, M.D. | Dialysis (PD) | Yong Lim Kim, M.D. |
| Glomerular and Tubulointerstitial Disorders | Ho Jun Jin, M.D. | Pediatric Nephrology | Tae Seon Ha, M.D. |
| Fluid and Electrolyte | Gheun Ho Kim, M.D. | Hypertension and Vascular Biology | Su Wan Kim, M.D. |
| Transplantation | Jong Su Lee, M.D. | CKD | Deog Hui Kang, M.D. |
| Pathology | Beom Jin Lim, M.D. | Basic Research | Tae Hwan Kwon, M.D. |
| Genetic Disease | Yeong Ju Kwon, M.D. | Geriatric Nephrology | Soon Ho Kwon, M.D. |
| Big Data | Tae Ik Chang, M.D. | | |

Scientific Committee

| Chair | Sang Ho Lee, M.D. | | |
|-----------|----------------------|----------------------|------------------------|
| Secretary | Ju-Young Moon, M.D. | | |
| | Hee Gyung Kang, M.D. | Eunsil Koh, M.D. | Seo Rin Kim, M.D. |
| | Jung Tak Park, M.D. | Ji hwan Park, M.D. | Se Won Oh, M.D. |
| Members | Yu Ho Lee, M.D. | Beom Jin Lim, M.D. | Jong Cheol Jeong, M.D. |
| | Hee Yeon Cho, M.D. | Hong Sang Choi, M.D. | Young Rok Ham, M.D. |
| | Seon Deok Hwang, M.D | | |



Welcome Message

Dear Colleagues,

On behalf of the Korean Society of Nephrology, we would like to welcome all participants to the 41st Annual Meeting of the Korean Society of Nephrology (KSN 2021 Fully Virtual Meeting).

We organized last year's KSN 2020 virtually due to COVID-19. It was a big challenge, but we nevertheless were able to host the fully virtual meeting successfully thanks to the enthusiastic support and participation of all the members of KSN as well as colleagues from home and abroad.

We believe that the global situation is getting better gradually. However, we are afraid that travel may continue to be difficult yet, so KSN 2021 also is held as a fully virtual meeting. With the experience gained in 2020, we are confident that KSN 2021 will be even more informative with, of course, top priority continuing to be given to the health and safety of our participants.

KSN 2021 is the 6th international meeting since 2016, when the KSN expanded its national scientific meeting to an international meeting. Every year, more than 2,500 kidney professionals attend the annual meeting with some 200 experts from all over the world delivering the latest findings and engaging in high-quality discussions.

Under the theme "New journey of KSN to the world," KSN 2021 covers a wide range of hot topics including Future Medicine, Big Data, and COVID-19 as well as the most recent updates in various fields of nephrology. We have also invited key opinion leaders in the global nephrology community, and organize joint symposia with related societies. We firmly believe that KSN 2021 will be invaluable in deepening your knowledge and broadening your global network.

Once again, we welcome you to virtual KSN 2021 meeting, and please share your valuable expertise with us and enjoy the programs prepared for you at KSN 2021.

Sincerely yours,



Chul Woo Yang, M.D. President Korean Society of Nephrology



Won Kim M.D. Congress President Korean Society of Nephrology

Program at a glance

| KOR Korean | ENG English KOR↔ENG KO | OR/ENG Simultaneous Interpretation | Plenary Lecture & Official Program | Oral Communication (English) | | | |
|-------------------|--|--|--|--|--|--|--|
| | | Day 1 September 2 | ? (Thursday) | | | | |
| Time | Room 1 | Room 2 | Room 3 | Room 4 | | | |
| 08:30-10:30 | PG Education 1 Hemodialysis | PG Education 2 Peritoneal Dialysis | PG Education 3 Transplantation | | | | |
| 10:30-10:40 | | Bri | eak | | | | |
| 10:40-12:40 | PG Education 4 Interventional nephrology | PG Education 5 Fluid & electrolyte | The 1st East-Asian Renal Pathology Conference 1 | Oral Communications 1 Chronic Kidney Disease 1 | | | |
| 12:40-13:40 | Industry Symposium 1 | Industry Symposium 2 | Industry Symposium 3 | | | | |
| 13:40-15:40 | Big Data | Hypertension and Vascular Biology | The 1st East-Asian Renal Pathology Conference 2 | Oral Communications 2 Glomerular Diesease | | | |
| 15:40-16:40 | Acute Kidney Injury 1 | KSN Research Fund Project /Overseas Research Studies | | Oral Communications 3 Inherited Kidney Disease/ Pediatric Nephrology | | | |
| 16:40-17:40 | | Topic Presentation | Pathology Conference 3 | Oral Communication 4 Chronic Kidney Disease 2 | | | |
| 17:40-17:50 | 17:40-17:50 Break | | | | | | |
| 17:50-18:00 | Opening Remarks | | | | | | |
| 18:00-19:00 | Plenary Lecture 1 Benjamin Humphreys | | | | | | |
| | | Day 2 September | 3 (Friday) | | | | |
| Time | Room 1 | Room 2 | Room 3 | Room 4 | | | |
| 08:30-10:30 | Acute Kidney Injury 2 | Kidney Transplantation 1 | KSN-EDTA: COVID Session | Oral Communications 5 Acute Kidney Injury | | | |
| 10:30-10:40 | | Bri | eak | | | | |
| 10:40-12:40 | R&D in Nephrology | Hemodialysis 1 | Basic Research | Oral Communications 6 Kidney Transplantation | | | |
| 12:40-13:40 | Industry Symposium 4 | Industry Symposium 5 | Industry Symposium 6 | | | | |
| 13:40-14:00 | | Bro | eak | | | | |
| 14:00-15:00 | Plenary Lecture 2 Best Abstracts | | | | | | |
| 15:00-17:00 | Pediatric Nephrology | Diabetes and Obesity | Award Session (15:00-16:20) | Becoming a New Basic Researcher | | | |
| 17:00-19:00 | Genetic Disease | Peritoneal Dialysis | Oral Communications 7 Hypertension/ Fluid, Electrolyte & Acid Base | Future medicine/Hot issue | | | |

Program at a glance

| KOR Korean | ENG English KOR↔ENG KO | R/ENG Simultaneous Interpretation | Plenary Lecture & Official Program | Oral Communication (English | | | |
|-------------------|---------------------------------------|---|------------------------------------|---|--|--|--|
| | Day 3 September 4 (Saturday) | | | | | | |
| Time | Room 1 | Room 2 | Room 3 | Room 4 | | | |
| 08:30-10:30 | Chronic Kidney Disease | Kidney Transplantation 2 | KSN-ISN Joint Symposium | Oral Communications 8 Dialysis HD, PD | | | |
| 10:30-10:40 Break | | | | | | | |
| 10:40-12:40 | Glomerulonephritis | Hemodialysis 2 | KSN-TSN-JSDT Joint Symposium | 40 th Anniversary Symposium 1 National Policy for Chronic Kidney Disease | | | |
| 12:40-13:40 | Industry Symposium 7 | Industry Symposium 8 | Industry Symposium 9 | | | | |
| 13:40-14:00 | | Bre | ak | | | | |
| 14:00-15:00 | Plenary Lecture 3 Christoph Wanner | | | | | | |
| 15:00-17:00 | Fluid and electrolyte | KDIGO-KSN Joint Symposium | APSN-KSN CME Course 1 | 40th Anniversary Symposium 2 New journey of KSN to the World | | | |
| 17:00-18:00 | Geriatric Nephrology | | APSN-KSN CME Course 2 | Oral Communications 9 Diabetic Nephropathy/ | | | |
| 18:00-19:00 | denduic Hepinology | | AI SIV-KSIV GIVIE GOUISE 2 | Geriatric Nephrology | | | |
| | | Day 4 September! | 5 (Sunday) | | | | |
| Time | Room 1 | Room 2 | Room 3 | Room 4 | | | |
| 08:30-10:30 | Nephrology Board Review Course 1 | Dialysis Specialist Physician Course 1 | Dialysis Nurse Course 1 | KSN-KSH Joint Symposium (Korean Society of Hypertension) | | | |
| 10:30-12:30 | Nephrology Board Review Course 2 | Dialysis Specialist Physician Course 2 | Dialysis Nurse Course 2 | KSN-KES Joint Symposium (Korean Endocrine Society) | | | |
| 12:30-13:30 | Industry Symposium 10 | Industry Symposium 11 | Industry Symposium 12 | | | | |
| 13:30-15:30 | National Projects in Nephrology | KORDS Report / Dialysis center Accreditation | KSN Cooperative Study | KSN-KSCN Joint Symposium (Korean Society of Clinical Nutrition) | | | |
| 15:30-17:30 | Ethics Education 필수강의 윤리교육 | Kidney Academy | | | | | |
| 17:30-18:30 | | | General Assembly | | | | |

| | | Day 1 Sontombor 2/Thursday | A | |
|------------------|----------------------------------|--|---|-------------------|
| | | Day 1 September 2 (Thursday | , | |
| 08:30-10:30 | | n 1 (Hemodialysis) es for Hemodialysis | KOR↔ENG | Room |
| Chair(s) | Ki Ryang Na | Chungnam National University, Korea | | |
| Common compl | ications of vascular | access | Hyung Seok Lee Hallym University, Kord | ea |
| Monitoring/Surv | veillance for AV acco | ess flow dysfunction | Do Hyoung Kim Hallym University, Koro | ea |
| Treatment of AV | access flow dysfun | ction | Jin Ho Lee LEESIN Hemodialysis a Clinic, Korea | and Intervention |
| Treatment of AV | access dysfunction | | Sangeon Gwoo Changwon Hanmaeum | Hospital, Korea |
| 08:30-10:30 | PG Educatio | n 2 (Peritoneal dialysis) Clinical Practice | KOR⇔ENG | Room |
| Chair(s) | Kook-Hwan Oh Joon Young Doh | Seoul National University, Korea Yeungnam University, Korea | | |
| Peritoneal Anat | omy & Transport Phy | rsiology | Hyo Jin Kim Pusan National Univer | sity, Korea |
| Peritoneal Dialy | sis Adequacy: A Par | radigm Shift | Isaac Teitelbaum University of Colorado | , USA |
| Fluid Managem | ent in PD & UF Failu | re | Seok Hui Kang Yeungnam University, | Korea |
| PD Peritonitis U | pdate: From Guidelii | nes to Innovations | Philip Li The Chinese University Hong Kong | of Hong Kong, |
| 08:30-10:30 | PG Educatio How to manage | n 3 (Transplantation) patients planning a kidney transplantation | ENG | Room |
| Chair(s) | Joong Kyung Kim Dong-Wan Chae | Bong Seng Memorial Hospital, Korea Seoul National University, Korea | | |
| How to manage | patients planning a | kidney transplantation | Eun Jeong Ko The Catholic Universit | y of Korea, Korea |
| How to manage | the dialysis patients | waiting for deceased donor kidney transplantation | Hee Jung Jeon Hallym University, Kord | ea |
| How to manage | live kidney donor af | ter donation | Hye Ryoun Jang Sungkyunkwan Univer | |

| 10:40-12:40 | | 1 4 (Intervention Nephrology) rocedure in Nephrology: Video Demonstration | KOR⇔ENG | Room 1 | |
|-------------------|--------------------------------|--|--|--------------------|--|
| Chair(s) | Sung Gyun Kim Myung-Gyu Kim | Hallym University, Korea Korea University, Korea | | | |
| Tips and pitfalls | during kidney biopsy | ı | Hae Ryoung Yun Yonsei University, Korea | | |
| PD catheter ins | ertion by nephrologis | Seok Hui Kang Yeungnam University, Korea | | | |
| Tips and pitfalls | of tunneled HD catho | Ki Ryang Na Chungnam National U | niversity, Korea | | |
| Vascular acces | s Doppler Ultrasound | by nephrologist | Eun Jung Kim Hallym University, Kor | ea | |
| 10:40-12:40 | PG Education | 1 5 (Fluids & electrolytes) Acid/Base Disorders | KOR⇔ENG | Room | |
| Chair(s) | Gheun-Ho Kim Sejoong Kim | Hanyang University, Korea Seoul National University, Korea | | | |
| Pathophysiolog | y and treatment of hy | Sejoong Kim Seoul National University, Korea | | | |
| Approach to hyp | pernatremia and poly | uric disorders | Hong Sang Choi Chonnam national Uni | versity, Korea | |
| Differential diaç | nosis of hypokalemi | c metabolic alkalosis | Young Eun Kwon Myongji Hospital, Han Korea | yang University, | |
| Pathophysiolog | ic approach to metab | olic acidosis | Jun-Ya Kaimori Osaka University, Jap | an | |
| 10:40-12:40 | The 1 st East-I | Asian Renal Pathology Conference 1 al guest lecture & case conference | ENG | Room | |
| Chair(s) | Yong-Jin Kim Hua Su | Kyungpook National University, Korea Huazhong University of Science and Technology, China | | | |
| Opening Ceremony | | | Yeong-Jin Choi The Catholic Universit Gang Liu Peking University, Chi Akira Shimizu Nippon Medical Scho | na | |
| Special guest le | ecture: Pathology and | Pathogenesis of ANCA-associated Glomerulonephritis | Charles Jennette University of North Ca Hill, USA | rolina at Chapel | |
| Case 1 (K) | | | Yuil Kim The Catholic Universit | y of Korea, Korea | |
| Case 2 (C) | | | Xuanli Tang Hangzhou Hospital of | Traditional ina | |

| 13:40-15:40 | The 1 st East-Asian Renal Pathology Conference 2 Session 2 Lecture & case conference | ENG | Room 3 |
|--|---|---|-----------------------|
| Chair(s) | Zhigang Zhang Shanghai Medical College, China | | |
| Review lecture institution | 1: Experience with Thrombotic Microangiopathy over the past 20 years in one | Yeong-Jin Choi The Catholic Unive | rsity of Korea, Korea |
| Case 3 (J) | | Kunio Kawanishi University of Tsuku | |
| Case 4 (K) | | Man-Hoon Han Kyungpook Nation | al University, Korea |
| | 2: Recent topics on novel antigens of membranous nephropathy: including a and EXT1-associated membranous nephropathy in the Hokkaido area | Takahiro Tsuji Sapporo City Gene | ral Hospital, Japan |
| 16:00-17:40 | The 1 st East-Asian Renal Pathology Conference 3 Session 3 Lecture & case conference | ENG | Room |
| | | | |
| Chair(s) | Ryuji Ohashi Nippon Medical School, Japan Hyeon Joo Jeong Yonsei University, Korea | | |
| | | Suxia Wang Peking University F | First Hospital, China |
| Chair(s) Review lecture Case 5 (C) | Hyeon Joo Jeong Yonsei University, Korea | Peking University F | |
| Review lecture | Hyeon Joo Jeong Yonsei University, Korea | Peking University F Ruimin Hu The First Affiliated | Hospital of Zhengzho |
| Review lecture Case 5 (C) Case 6 (J) | Hyeon Joo Jeong Yonsei University, Korea 3 : Advance on diagnosis and typing of amyloidosis | Peking University F Ruimin Hu The First Affiliated University, China Yasuhiro Oda | Hospital of Zhengzho |
| Review lecture | Hyeon Joo Jeong Yonsei University, Korea 3 : Advance on diagnosis and typing of amyloidosis | Peking University F Ruimin Hu The First Affiliated University, China Yasuhiro Oda | Hospital of Zhengzho |

| 12:40-13:40 | Industry Syn | 1posium 1 | Sponsored by | TUHAN | KOR⇔ENG | Room 1 |
|--|---|------------------|---|---|---|-------------------|
| Chair(s) | Gheun-Ho Kim | Hanyang Unive | ersity, Korea | | | |
| Management of | T2D patients with Ck | (D; before and a | fter EMPA-REG | ОИТСОМЕ | Hyoungnae Kim Soonchunhyang Unive | ersity, Korea |
| 12:40-13:40 | Industry Syn | nposium 2 | Sponsored by | Ínno.N Innovate New & Next | KOR↔ENG | Room 2 |
| Chair(s) | Jung Hwan Park | Konkuk Univers | sity, Korea | | | |
| Role of Kremezi | n as a Strategy for De | elaying CKD Pro | gression | | Tae Hyun Ban The Catholic Universit | y of Korea, Korea |
| 12:40-13:40 | Industry Syn | nposium 3 | Sponsored by | astellas | KOR | Room 3 |
| Chair(s) | Jong Soo Lee | Ulsan Universi | ty, Korea | | | |
| Optimal dosing | strategies of mainten | ance tacrolimus | s in kidney tran | splantation | Jong Cheol Jeong Seoul National Univer | sity, Korea |
| 13:40-15:40 | Big Data Big Data in Nep | hrology: Prom | nises and Pitf | alls | KOR⇔ENG | Room ' |
| Chair(s) | Tae Ik Chang Dong Ki Kim | | h Insurance Serv University, Kore | rice Ilsan Hospital, Korea a | | |
| Introduction of I | National Health Insur | ance Service B | ig Data: current | status and usage method | Dongwuk Kim National Health Insura Korea | ance Corporation, |
| Statistical cons Insurance Big D | | n biases arisinç | g from the analy | sis of National Health | Sohee Park Yonsei University, Koro | ea |
| | lity in creatinine mea and interpretation of | | • | erular filtration rate on | Sungjin Chung The Catholic Universit | y of Korea, Korea |
| Nephrology stud | dy using the National | Health Insuran | ce Service clai | ms data | Sehoon Park Korean Armed Forces Korea | Capital Hospital, |
| 13:40-15:40 | Hypertension Nocturnal hyper | | | IV | KOR⇔ENG | Room |
| Chair(s) | Soo Wan Kim Kyung Pyo Kang | | onal University, K nal University, K | | | |
| Approach for is | olated nocturnal hype | ertension and Bl | P variability | | Jong Hyun Jhee Yonsei University, Koro | ea |
| Pathophysiology of disrupted circadian rhythm of BP in patients with CKD | | | | Hayne Cho Park Hallym University, Kor | ea | |
| Association bet | ween BP variability a | and renal outcor | ne | | Hong Sang Choi Chonnam National Un | iversity, Korea |
| | | | | s | Eun Sil Koh | |

| 13:40-15:40 | Oral Commu <i>Glomerular dise</i> | | ENG | Room 4 |
|------------------|---|--|--|--------------|
| Chair(s) | Seong Eun Kim Jong Woo Yoon | Dong-A University, Korea Hallym University, Korea | | |
| 0C2-01 ~ 0C2-1 | 2 | | | |
| 15:40-17:40 | Acute Kidne Cause-oriented | y injury 1 Approach of AKI | KOR⇔ENG | Room |
| Chair(s) | Won Kim Hyo-Wook Gil | Chonbuk National University, Korea Soonchunhyang University, Korea | | |
| New coming br | idge between AKI an | d CKD: Acute kidney disease | Jung Nam An Hallym University, Kor | ea |
| Volume manage | ement in patients wit | h AKI and heart failure: Cardiorenal syndrome | Myung-Gyu Kim Korea University, Kore | a |
| Novel nephrolo | gic approach in hepa | ntorenal syndrome: HRS-AKI | Jung Pyo Lee Seoul National Univers | sity, Korea |
| /igilance regar | ding for drug induced | ı AKI | Hyo-Wook Gil Soonchunhyang Unive | rsity, Korea |
| 15:40-17:40 | | ch Fund Project esearch Studies Topic Presentation | KOR⇔ENG | Room |
| Chair(s) | Bum Soon Choi Hyosang Kim | The Catholic University of Korea, Korea University of Ulsan, Korea | | |
| | | s and treatment responses to hypertonic saline infusion in emia: A prospective cohort study | Seon Ha Baek Hallym University, Kor | ea |
| Development of | PKD mouse model a | nd effect of AMPK activator | Hyunsuk Kim Hallym University, Kor | ea |
| | and cardiovascular o nwide cohort study | utcomes in patients with diabetes and chronic kidney | Hyoungnae Kim Soonchunhyang Unive | rsity, Korea |
| Clinical relevan | ce of tertiary lympho | id tissues in diabetic kidney disease | Yu Ho Lee CHA University, Korea | |
| | servational retrospec n data model of OHDS | tive cohort studies among patients with type 2 diabetes SI | Yongjin Yi Dankook University, Ko | orea |
| Jrinary sedime | nt mRNA as a potent | biomarker of IgA nephropathy | Jin Sug Kim Kyung Hee University, | Korea |
| | | -scientific field | Jae II Shin | |

| OR Korean EN | IG English KOR ↔ | ENG KOR/ENG Simultaneous Interpretation | Plenary Lecture & Official Program 0 | ral Communication (English |
|-------------------|--------------------------------|---|--|----------------------------|
| 15:40-16:30 | Oral Commu Inherited kidne | inications 3 y disease/Pediatric nephrology | ENG | Room 4 |
| Chair(s) | Jin-Soon Suh Yo Han Ahn | The Catholic University of Korea, Korea Seoul National University, Korea | | |
| OC3-01 ~ OC3-0 | 6 | | | |
| 16:40-17:40 | Oral Commu | Inications 4 Disease (CKD) 2 | ENG | Room 4 |
| Chair(s) | Jieun Oh Gang Jee Ko | Hallym University, Korea Korea University, Korea | | |
| OC4-01 ~ OC4-06 | 6 | | | |
| 17:50-18:00 | Opening Re | marks | KOR↔ENG | Room 1 |
| 18:00-19:00 | Plenary Lec | ture 1 | KOR↔ENG | Room 1 |
| Chair(s) | Won Kim | Chonbuk National University, Korea | | |
| Single cell trans | scriptomic research | in translational medicine | Benjamin Humphr Washington Univers | • |

| Day 2 September 3 (Friday) | | | | |
|-----------------------------|-------------------------------|---|---|--------|
| 08:30-10:30 | Acute Kidne New strategies | | KOR⇔ENG | Room 1 |
| Chair(s) | Sang-kyung Jo Dong Won Lee | Korea University, Korea Pusan National University, Korea | | |
| Does ferroptosi | s explain Nephron L | oss? | Andreas Linkermann University Hospital Car Dresden, Germany | = |
| Tertiary lympho | id tissues: unique mi | croenvironment in injured kidney | Motoko Yanagita Kyoto University, Japa | n |
| Kidney-Gut cros | sstalk in AKI | | Sang-kyung Jo Korea University, Kore | a |
| Nanoparticle therapy in AKI | | Chang Seong Kim Chonnam National Uni | versity, Korea | |

| 08:30-10:30 | | splantation 1 pproaches in kidney transplantation | KOR↔ENG | Room 2 |
|--|---|---|---|-------------------|
| Chair(s) | Jong Soo Lee Yeong Hoon Kim | Ulsan University, Korea Inje University, Korea | | |
| Multi-dimensio | nal biomarker as a (| guide to personalized immunosuppression | Tara Sidgel The University of Calif San Francisco, USA | ornia, |
| What's going o | n under the surface? | cell free DNA and ongoing rejection process | Philip Halloran University of Alberta, | Canada |
| lmmunologic m | onitoring through bi | omarker | Chan-Duck Kim Kyungpook National L | Iniversity, Korea |
| 08:30-10:30 | KSN-EDTA: C | COVID Session KD patients | ENG | Room |
| Chair(s) | Jong Woo Yoon Beom Seok Kim | Hallym University, Korea Yonsei University, Korea | | |
| The burden of COVID-19 on the population with kidney disease | | | Luuk Hilbrands Radboud University, The Netherlands | |
| COVID-19 expe | riences in Korea | | Jang-Hee Cho Kyungpook National U | Iniversity, Korea |
| Growth of perito | oneal dialysis post- | COVID-19 | Edwin A. Brown Imperial College Lond | on, UK |
| Immunology of | COVID-19 infection | | Eui-Cheol Shin Korea Advanced Insti and Technology (KAIS | |
| 08:30-10:30 | Oral Commi | | ENG Room | |
| Chair(s) | Se Won Oh Dae Eun Choi | Korea University, Korea Chungnam National University, Korea | | |
| OC5-01 ~ OC5-1 | 12 | | | |
| 10:40-12:40 | R&D in Nep R&D cases in R | | KOR↔ENG | Room ' |
| Chair(s) | Sangho Lee Eun Hui Bae | Kyung Hee University, Korea Chonnam National University, Korea | | |
| APX-115 agains | t diabetic kidney di | sease: from bench to phase II clinical trial | Hunjoo Ha Ewha Womans Univer | rsity, Korea |
| Localization of (| Continuous Renal R | eplacement Therapy Device | Dong Ki Kim Seoul National Univer | sity, Korea |
| A new treatmen | nt approach in CKD ı | ısing 4D bioprinting technology | Jina Ryu Rokit Healthcare, Koro | ea |
| Non-invasive ca | ardiopulmonary moi | nitoring | Eung Je Woo Kyung Hee University, | Korea |
| | | | | |

| 10:40-12:40 | Hemodialysi Which is the bes | S st for my patients? | KOR⇔ENG | Room 2 |
|--|---|---|--|-------------------------|
| Chair(s) | Young-il Jo Dong Ho Yang | Konkuk University, Korea CHA University, Korea | | |
| Introduction: W | hich is the best for m | y patients? | Young-il Jo Konkuk University, Ko | rea |
| Conventional he | emodialysis | | Young Rok Ham Chungnam National U | niversity, Korea |
| What is the best | t for my patients? Onl | ine hemodiafiltration (HDF) | Ju-Young Moon Kyung Hee University, | Korea |
| Expanded hemo | dialysis | | Seung Seok Han Seoul National Univer | sity, Korea |
| Panel discussio | n | | Young Rok Ham Chungnam National U Ju-Young Moon Kyung Hee University, Seung Seok Han Seoul National Univer | Korea |
| Special Lecture | : Impact of dialysis th | erapy on the patient survival | Bernard Canaud University of Montpell | lier, France |
| 10:40-12:40 | Basic resear Mechanisms an fibrosis | Ch d therapeutic targets of renal inflammation and | ENG | Room |
| Chair(s) | Tae-Hwan Kwon Jihwan Park | Kyungpook National University, Korea Gwangju Institute of Science and Technology (GIST), Korea | | |
| Anti-fibrotic effe expression in ki | | deoxynucleotide for the regulation of TGF-β1 and Smad | Kwan Kyu Park The Catholic Universit | ty of Daegu, Korea |
| Prostaglandin E | 2 receptors as therap | eutic targets in renal inflammation and fibrosis. | Rikke Norregaard Aarhus University, De | nmark |
| | | | Ki Wung Chung College of Pharmacy, | Pusan National |
| Mitochondrial d | lysfunction in renal ir | flammation and fibrosis | University, Korea | |
| | | oflammation and fibrosis gle-nucleus transcriptomics | | y, USA |
| | | gle-nucleus transcriptomics nications 6 | University, Korea Haojia Wu | y, USA Room 4 |

| 12:40-13:40 | Industry Symposium 4 Sponsored by | HANJDOK | KOR⇔ENG | Room 1 |
|-------------------------------------|---|----------------------------|--|-----------------|
| Chair(s) | Young Rim Song Hallym University, Korea | | | |
| Malignant Hype who is the egg? | tension and atypical Hemolytic and Uremic Syndrom | e: who is the chicken, | Jean-Michel Halimi Tours University Hospita | l, France |
| 12:40-13:40 | Industry Symposium 5 Sponsored by | N Pharmaceutical | KOR⇔ENG | Room 2 |
| Chair(s) | Young Joo Kwon Korea University, Korea | | | |
| Nutrition vs. Pho | sphate management, Can we strike a balance? | | Hajeong Lee Seoul National Universit | y, Korea |
| 12:40-13:40 | Industry Symposium 6 Sponsored by | BORYUNG | KOR | Room |
| Chair(s) | Jin Kuk Kim Soonchunhyang University, Korea | 1 | | |
| New clinical ou patients FANTA | come of Fimasartan on reducing proteinuria in Korea TIC trial | nn diabetic nephropathy | Jieun Oh Hallym University, Korea | |
| 14:00-15:00 | Plenary Lecture 2 Best Abstract | | KOR↔ENG | Room ' |
| Chair(s) | Chun Soo Lim Joo Hoon Lee Seoul National University, Korea University of Ulsan, Korea | | | |
| The brain-gut-ki injury (AKI) | dney axis in the development of cognitive dysfunction | n following acute kidney | Young Eun Choi Korea University Anam H | Hospital, Korea |
| • | correction of Na-Cl cotransporter mutation using CR ted from Gitelman's syndrome patient-derived iPSC | ISPR-Cas9 in kidney | Sun-Woo Lim The Catholic University of St. Mary's Hospital, Kore | |
| Single-Cell Tran Diabetic Kidney | scriptome of Mouse Kidneys Reveals Differential Cel Disease | lular Alterations in | Su Woong Jung Gwangju Institute of Scio Technology (GIST), Kore | |
| | e of Mesothelial Exosomes Isolated from Peritoneal I cal Segmental Glomerulosclerosis | Dialysis Effluent Of | Edoardo La Porta Gaslini Children Hospital | , Italy |
| 15:00-17:00 | Pediatric Nephrology The transition from adolescence to adulthoo | nd - Chronic renal disease | KOR⇔ENG | Room ' |
| Chair(s) | Tae-Sun Ha Chungbuk National University, Ko | rea | | |
| Genetic aspect | of IgA nephropathy | | Krzysztof Kiryluk University of Columbia, U | JSA |
| PAX2 related ne | phropathy | | Jiwon Lee Korea Disease Control a Agency, Korea | nd Prevention |
| School Urine Sc | reening (SUS) program in Korea: History, Outcome, ar | nd Perspectives | II-Soo Ha Seoul National Universit | y, Korea |
| School Urine Sc | reening (SUS) Program in Japan: History, Outcome, P | erspectives | Masataka Honda Kiyose Children's Hospita | al lanan |

| 15:00-17:00 | Diabetes an The future of di | d Obesity iabetes treatment in DKD | KOR↔ENG | Room 2 |
|-----------------------------------|-------------------------------------|---|---|-------------|
| Chair(s) | Sang-Youb Han Ju-Young Moon | Inje University, Korea Kyung Hee University, Korea | | |
| The therapeutic | effects of GLP1-ago | nists in diabetic kidney disease | Jong Han Lee Hanseo University, Ko | rea |
| GLP1-agonists, | to use or not to use i | n DKD- clinical point of view | Soo Lim Seoul National Univer | sity, Korea |
| Triglycerides, to | target or not to targ | et in DKD - basic point of view | Wondong Kim College of Pharmacy, University, Korea | Hanyang |
| Triglycerides, to | target or not to targ | et in DKD - clinical point of view | Eugene Han Keimyung University, | Korea |
| 15:00-16:20 | Award Sess | ion | KOR | Room |
| Chair(s) | Ji-Won Min | The Catholic University of Korea, Korea | | |
| KSN Young Inve | stigator Award Cere | emony | | |
| KSN Young Inve ameliorate kidn | | ner Lecture: Erythropoietin modulates cell cycle arrest to | Jong Hyun Jhee Yonsei University, Kor | ea |
| KSN Academic | Excellence Award (| Ceremony | | |
| KSN Academic | Excellence Award \ | Ninner Lecture: Body composition and kidney function | Jung Tak Park Yonsei University, Kor | ea |
| KSN Lifetime Ad | chievement Award (| Ceremony | | |
| KSN Lifetime Ad | chievement Award r | emarks | Seong Nam Kim Dr.Kim's Medical Clini | c, Korea |
| 15:00-17:00 | | New Basic Researcher slational Science | KOR | Room 4 |
| Chair(s) | Sejoong Kim Won-il Jeong | Seoul National University, Korea KAIST Graduate School of Medical Science and Engineering (GS | SMSE), Korea | |
| Exploring the hi | dden mechanism in | alcoholic liver disease | Keungmo Yang Korea Advanced Insti and Technology (KAIS | |
| A journey to me | dical science: critic | al role of T cell-specific cilia protein | Jiung Jeong Korea Advanced Insti and Technology (KAIS | |
| The path to imm | unologic research a | is a medical doctor | Jieun Oh Korea Advanced Insti and Technology (KAIS | |
| Developing ima | ging technologies fo | or unique and extensive contributions to biomedicine | Taeyun Ku Korea Advanced Insti and Technology (KAIS | |
| From bedside to | bench, then to com | puter | Su Woong Jung Gwangju Institute of S Technology (GIST), Ko | Science and |

| 17:00-19:00 | Genetic Dise Recent advance | | KOR↔ENG | Room 1 |
|--------------------|---------------------------------------|--|--|------------------|
| Chair(s) | Young Joo Kwon | Korea University, Korea | | |
| Ciliopathy and F | PKD in pediatrics | | Eujin Park Hallym University, Kor | ea |
| Characteristics | and Genetic Influenc | ce of ADPKD Rapid Progressor Patients | Yun Kyu Oh Seoul National Univer | sity, Korea |
| Treatment of AD | PKD in the era of dis | ease modifying treatments; Focus on Practical Approach | Fouad Chebib Mayo Clinic, USA | |
| Kidney transpla | ntation for ADPKD pa | atients in Japan | Sumi Hidaka Shonan Kamakura Gel Japan | neral Hospital, |
| 17:00-19:00 | Peritoneal D | ialysis e patterns and new strategies for PD | KOR⇔ENG | Room 2 |
| Chair(s) | Yong-Lim Kim Tae-Hyun Yoo | Kyungpook National University, Korea Yonsei University, Korea | | |
| Role of SDM in | peritoneal dialysis p | enetration | Sejoong Kim Seoul National Univers | sity, Korea |
| Progress of Peri | itoneal Dialysis Outc | omes and Practice Patterns Study phase 2 | Sun-Hee Park Kyungpook National U | niversity, Korea |
| Pilot Project of I | Home Management i | n Peritoneal Dialysis Patients | Young-Ki Lee Hallym University, Kor | ea |
| Peritoneal dialy | sis among elderly pa | ntients, benefits and experience | Yasuhiko Ito Aichi Medical Univers | ity, Japan |
| 17:00-19:00 | Oral Commu | nications 7 Fluid, Electrolyte & Acid Base | ENG | Room |
| | | | | |

| E-poster Presentation | LICT |
|-----------------------|------|
| L-DUSTELLIESELITATION | LIOL |

| KOR Korean EN | G English KOR ↔ | ENG KOR/ENG Simultaneous Interpretation | Plenary Lecture & Official Program | Oral Communication (English) |
|--------------------|---------------------------------|--|------------------------------------|--|
| 17:00-19:00 | Future medi | cine/Hot issue | KOR | Room 4 |
| Chair(s) | Duk-Hee Kang Soon Kil Kwon | Ewha Womans University, Korea Chungbuk National University, Korea | | |
| Health effect of F | PM: Knowns vs. Unl | knowns (미세먼지의 건강영향: 국제 연구동향) | Jong Hun I Sungkyunk | Kim wan University, Korea |
| | 07 | ics and Database available 세게 알려드리는 연구방법론) | Sanghyuk The Catholic | Bae c University of Korea, Korea |
| | on PM: EWAS in Lu 초연구: 호흡기질환 | ng Disease 에서 코호트를 이용한 EWAS) | Woojin Kir Kangwon N | n ational University, Korea |
| Relationship bet | ween PM & Kidney | Disease (미세먼지와 콩팥병의 관련) | Jung Pyo L Seoul Natio | .ee nal University, Korea |

| | Day 3 September 4 (Sat | turday) |
|--|--|---|
| 08:30-10:30 | Chronic Kidney Disease Nutrition & QoL in CKD | KOR⇔ENG Room 1 |
| Chair(s) | Jung Eun Lee Sungkyunkwan University, Korea Jun Chul Kim CHA University, Korea | |
| Considerations | in nutritional management of CKD patients | Gang Jee Ko Korea University, Korea |
| HRQOL in CKD- | Advance & Challenge | Kyu-Beck Lee Sungkyunkwan University, Korea |
| A practical app | roach for salt restriction in CKD | Kunitoshi Iseki Clinical Research Support Center, Nakamura Clinic, Japan |
| KDOQI-AND 202 | 20 CKD Nutrition guidelines : Dietary Protein Intake in CKD patients | Talat Alp Ikizler Vanderbilt University, USA |
| 08:30-10:30 | Kidney Transplantation 2 Improving access to kidney transplantation | (KOR↔ENG Room 2 |
| Chair(s) | Chan-Duck Kim Gyu-Tae Shin Kyungpook National University, Korea Ajou University, Korea | |
| Pre-sensitized | patients and expanding opportunity by desensitization | Jaeseok Yang Yonsei University, Korea |
| Current update | of ABO incompatible kidney transplantation | Saito Kazuhide Niigata University, Japan |
| How to reduce | disparities in access to kidney transplantation: For elderly, frail patie | nts Myung-Gyu Kim Korea University, Korea |
| Optimal utilization of the "marginal kidney" | | Sumit Mohan Columbia University, USA |

| 08:30-10:30 | | nt Symposium Network for Kidney Health Care | ENG | Room |
|--|--|---|--|-------------------|
| Chair(s) | Agnes Fogo Beom Seok Kim | Vanderbilt University Medical Center, USA Yonsei University, Korea | | |
| Introduction of | ISN-GKHA project | | Vivekanand Jha The George Institute India | of Global Health, |
| Korean Renal D | ata System (KoRDS) | network | Jongha Park Ulsan University, Kor | ea |
| Prognostic mar | kers in glomerular di | seases | Agnes Fogo Vanderbilt University USA | Medical Center, |
| Korean GN registry network (KoGNet) | | Ho Jun Chin Seoul National University, Korea | | |
| 08:30-10:30 | Oral Commu <i>Dialysis HD, PD</i> | nications 8 | ENG | Room |
| Chair(s) | Kyubok Jin Jang-Hee Cho | Keimyung University, Korea Kyungpook National University, Korea | | |
| OC8-01 ~ OC8-1 | 12 | | | |
| 10:40-12:40 | Glomerulone <i>New approach</i> | ephritis to management of glomerulonephritis | KOR⇔ENG | Room |
| Chair(s) | Ho Jun Chin Seung Hyeok Han | Seoul National University, Korea Yonsei University, Korea | | |
| Application of C | 5 inhibitor on glome | rular disease. | Eric Rondeau Tenon Hospital, Fran | ce |
| Precision medi | cine in glomerular di | sease | Ali Gharavi Columbia University, | USA |
| Recent advance | e in management of n | ninimal change lesion | Ho Jun Chin Seoul National Unive | rsity, Korea |
| Automated assessment of kidney pathology for glomerular diseases | | Hajeong Lee Seoul National University, Korea | | |

| 10:40-12:40 | Hemodialysi Update on ESRI | S II D complications in HD patients | KOR⇔ENG | Room 2 |
|---------------------------------|---|--|---|--------------------|
| Chair(s) | Yang Wook Kim Sug Kyun Shin | Inje University, Korea National Health Insurance Service Ilsan Hospital, Korea | | |
| Antihypertensiv | re medication in HD p | patients | Yu Ah Hong The Catholic Universi | ty of Korea, Korea |
| Management of | hyperparathyroidism | n in HD | Kyung Pyo Kang Chonbuk National Un | iversity, Korea |
| Management of | anemia in HD | | Hyosang Kim University of Ulsan, K | orea |
| Management of | intractable uremic p | oruritus | Hon-Yen Wu Far Eastern Memoria | l Hospital, Taiwan |
| 10:40-12:40 | KSN-TSN-JS Renal Anemia | DT Joint Symposium | ENG | Room |
| Chair(s) | Jin-Shuen Chen Hirokazu Honda Won Kim | Kaohsiung Veterans General Hospital, Taiwan Showa University, Japan Chonbuk National University, Korea | | |
| The role of HIF- | PH inhibiter in the ph | nysiological erythropoiesis | Takahiro Kuragano Hyogo College of Me | |
| Anemia manage outcome analys | | th chronic kidney disease: Taiwan practice guidelines and | Ko-lin Kuo Taipei Tzu Chi Hospita | al, Taiwan |
| Renal anemia ir | ı Korean dialysis pat | ients & The role of iron replacement therapy | Hyo Jin Kim Pusan National Unive | ersity, Korea |
| New Expectation | on of Renal Anemia N | J lanagement | Jwa-Kyung Kim Hallym University, Ko | rea |
| 10:40-12:40 | 40 th Anniver | sary Symposium 1 for Chronic Kidney Disease | ENG | Room |
| Chair(s) | Chul-Woo Yang Chun Soo Lim | The Catholic University of Korea, Korea Seoul National University, Korea | | |
| National policy | for CKD: Korea | | Kook-Hwan Oh Seoul National Unive Korean CKD Cohort: I | |
| National policy | for CKD: USA | | Scott Bieber Kootenai Health, Cha Quality Committee, U | |
| | (0/D T : | | Yi-Wen Chiu Kaohsiung Medical U | |
| National policy | for CKD: Talwan | | Chairperson of the Cl Committee of TSN, Ta | |

| 12:40-13:40 | Industry Syn | 1posium 7 Sponsored by Baxter | KOR⇔ENG | Room 1 | |
|---|--|---|--|--|--|
| Chair(s) | Yong-Lim Kim | Kyungpook National University, Korea | | | |
| What's new tre | nd in PD? Sharesou | Jeonghwan Lee Seoul National Univer | Jeonghwan Lee Seoul National University, Korea | | |
| 12:40-13:40 | Industry Syn | 1 posium 8 Sponsored by FRESENIUS MEDICAL CARE | KOR↔ENG | Room | |
| Chair(s) | Joon Ho Song | Inha University, Korea | | | |
| How to achieve | high convection volu | AJin Cho Hallym University, Kor | AJin Cho Hallym University, Korea | | |
| 12:40-13:40 | Industry Syn | 1posium 9 Sponsored by Gyowa KIRIN | KOR | Room | |
| Chair(s) | Sang-kyung Jo | Korea University, Korea | | | |
| Which is more o | optimal ESA? Short o | Long-acting ESA | Young Youl Hyun Sungkyunkwan Unive | rsity, Korea | |
| 14:00-15:00 | Plenary Lecture 3 | | KOR↔ENG | Room | |
| Chair(s) | Chul-Woo Yang Sik Lee | The Catholic University of Korea, Korea Chonbuk National University, Korea | | | |
| SGLT2 inhibitor | LT2 inhibitor | | Christoph Wanner University Hospital W | Christoph Wanner University Hospital Wuerzburg, German | |
| 15:00-17:00 | Fluids and electrolytes Renal Tubular Transport Physiology | | KOR↔ENG | Room | |
| Chair(s) | Kwon Wook Joo Tae-Hwan Kwon | Seoul National University, Korea Kyungpook National University, Korea | | | |
| Vasopressin-independent pathways for aquaporin-2 activation in the kidney | | | Tae-Hwan Kwon Kyungpook National U | Tae-Hwan Kwon Kyungpook National University, Korea | |
| Role of the NaC | l cotransporter (NCC) | | Gerardo Gamba Salvador Zubirán National Institute of Health Sciences and Nutrition, Mexico | | |
| | | Oh II - Ki | Gheun-Ho Kim Hanyang University, Korea | | |

| 15:00-18:00 | KDIGO-KSN . | Joint Symposium | KOR⇔ENG | Room 2 |
|--|----------------------------------|--|---|--------|
| Chair(s) | Sung Gyun Kim Beom Seok Kim | Hallym University, Korea Yonsei University, Korea | | |
| KDIGO Guidelin | e on Diabetes Mana | Sophia Zoungas Monash University, Australia | | |
| Paradigm Shift in Diabetes management in Chronic kidney disease-Korean Perspective | | | Hoon Young Choi Yonsei University, Korea | |
| Evaluation and Management of Candidates for Kidney Transplantation | | | Helen Pilmore Auckland City Hospital, New Zealand Ho Sik Shin Kosin University, Korea | |
| Pre-transplant Recipient evaluation & management: An Update in 2021 | | | | |
| Updated Guideline for Glomerular Diseases: the Practical Issues as Korean nephrologists | | | Hajeong Lee Seoul National University, Korea | |
| Glomerulonephritis: What's new? | | | Sydney Tang The University of Hong Kong, Hong Kon | |
| 15:00-17:00 | APSN-KSN C | ME Course 1 disease | ENG | Room |
| Chair(s) | Cheol Whee Park Muh Geot Wong | The Catholic University of Korea, Korea The George Institute for Global Health, Australia | | |
| Introduction of APSN-KSN CME courses | | | Muh Geot Wong The George Institute for Global Health, Australia | |
| Therapy for DKD beyond SLGT-2 inhibitors? | | | Sydney Tang The University of Hong Kong, Hong Kon | |
| Comparison of APCN DKD clinical practice guidelines and KDIGO guidelines in CKD with diabetes | | | Sunita Bavanandan Hospital Kuala Lumpur, Malaysia | |
| Mechanisms of Adiponectin Action: Implication of Adiponectin Receptor Agonism in Diabetic Kidney Disease | | | Yaeni Kim The Catholic University of Korea, Korea | |
| 15:00-17:00 | 40 th Anniver | sary Symposium 2 KSN to the world | KOR | Room |
| Chair(s) | Bum Soon Choi | The Catholic University of Korea, Korea | | |
| Present of the Korean Society of Nephrology | | | Chul-Woo Yang President, Korean Society of Nephrology, Korea | |
| Future of Korean Society of Nephrology | | | Chun Soo Lim President-elect, Korean Society of Nephrology, Korea | |
| 코로나 이후 보건의료정책 변화 방향과 학회의 대응 | | | Jin Yong Lee HIRA Research Institute, Health Insuranc Review and Assessment Service, Korea | |
| Al의 시대, 급속한 변화의 시대에 살아남기 | | | Taewoong Park Hanbit Media, Korea | |
| 인문학의 견지에서 본 대통령의 리더십 | | | Tae-Gyun Park Seoul National University Graduate School of International Studies, Korea | |

| | Geriatric Ne | | | _ |
|---|---------------------------------|---|---|------|
| 17:00-19:00 | Assessment and with CKD | d therapeutic considerations for elderly patients | KOR⇔ENG | Room |
| Chair(s) | Soon Hyo Kwon Sung Joon Shin | Soon Chun Hyang University, Korea Dongguk University, Korea | | |
| Geriatric assess | sment in advanced ki | Edwin A. Brown Imperial College London, UK | | |
| Elderly and frail | ty in Korean populati | Chang Won Won Kyung Hee University, Korea | | |
| Shared decision | ı making for elderly p | Byung Chul Yu Soonchunhyang University, Korea | | |
| Optimal treatment strategy for elderly patients with ESRD | | | Jae Won Yang Yonsei University, Korea | |
| 17:00-19:00 | APSN-KSN C | ME Course 2 | ENG | Room |
| Chair(s) | Xue Qing Yu Young Joo Kwon | Guangdong Provincial People's Hospital/Guangdong Academy Korea University, Korea | of Medical Sciences, China | |
| Updates on CKD-MBD management | | | Rathika Krishnasway The University of Queensland, Australi | |
| Vascular calcification on CVD in CKD | | | Ji Yong Jung Gachon University, Korea | |
| Prevention and | management of Frac | Shin Young Ahn Korea University, Korea | | |
| Nutrition management in CKD | | | Angela Wang The University of Hong Kong, Hong Kor | |
| 17:00-19:00 | Oral Commu | nications 9 pathy / Geriatric nephrology | ENG | Room |
| | Hyeong-Cheon Par | k Yonsei University, Korea | | |
| Chair(s) | So-Young Lee | CHA University, Korea | | |

| OR Korean EN | IG English KOR ↔ | ENG KOR/ENG Simultaneous Interpretation Plenary Lecture | e & Official Program | Oral Communication (Eng |
|------------------|---------------------------------|---|---|-------------------------|
| | | Day 4 September 5 (Sunday | r) | |
| 08:30-10:30 | Nephrology Recent update | Board Review Course 1 | KOR | Room 1 |
| Chair(s) | Bum Soon Choi | The Catholic University of Korea, Korea | | |
| Recent update i | n the pathogenesis o | of CKD | Sun-Hee Park Kyungpook Nation | al University, Korea |
| Diabetes in CKD |) | | Sang Heon Song Pusan National Un | iversity, Korea |
| HTN & Heart fai | lure in CKD | | Yang Gyun Kim Kyung Hee Univers | sity, Korea |
| Sarcopenia in C | CKD | | Young Rim Song Hallym University, | Korea |
| 08:30-10:30 | Dialysis Spe New progress in | ecialist Physician Course 1 in hemodialysis | KOR | Room |
| Chair(s) | SungKu Lee | JD Clinic, Korea | | |
| Blood pressure | and volume manage | ment in hemodialysis | Ki-Pyo Kim Inha University, Ko | rea |
| Composition of | dialysate, update | | Song In Baeg Myongji Hospital, H Korea | lanyang University, |
| Essential use of | duplex ultrasound f | or proper vascular access management | Do Hyoung Kim Hallym University, Korea | |
| High-flux hemod | dialysis vs. pre-, pos | t-, mixed- hemodiafiltration | Mi Jung Lee CHA University, Ko | rea |
| 08:30-10:30 | Dialysis Nur | se Course 1 | KOR | Room |
| Chair(s) | Su-Hyun Kim Ho Seok Koo | Chung-Ang University, Korea Inje University, Korea | | |
| COVID-19 대응 / | 사례 – 개인 의원 | | Hankyu Lee Lee Hankyu Clinic, | Korea |
| 투석실에서의 감 | 염 관리 | | So Mi Kim Dankook University | / Hospital, Korea |
| 투석 환자의 예빙 | :접종 (COVID-19 백신 | ! 포함) | Young Rok Ham Chungnam Nationa | al University, Korea |
| | | | | |

Detailed Program

| 08:30-10:30 | KSN-KSH J Blood pressur | Oint Symposium (Korean Society of Hypertension) e control in specific population | KOR | Room 4 |
|--|----------------------------|--|--|-------------------|
| Chair(s) | Sangho Lee II Suk Sohn | Kyung Hee University, Korea Kyung Hee University, Korea | | |
| Optimal blood pressure control in dialysis patients Effect of blood pressure in outcome of KT recipient and donor | | Kyung Don Yoo Ulsan University, Ko | orea | |
| | | Byungha Chung The Catholic Univer | sity of Korea, Korea | |
| Target blood pre | essure in elderly pa | tients | Jinho Shin Hanyang University | , Korea |
| Benefit and risk | of BP control in he | eart failure patients | Hae-Young Lee Seoul National Univ | versity, Korea |
| 10:30-12:30 | | Board Review Course 2 별도등록필요 e essentials in medication | KOR | Room 1 |
| Chair(s) | Seungyeup Han | Keimyung University, Korea | | |
| Drug induced ki | dney disease: how | to prevent | Soon Kil Kwon Chungbuk National | University, Korea |
| Anticoagulant i | n CKD | | Jae Won Yang Yonsei University, K | orea |
| Use of RAS inhi | bitors in advanced | CKD | Jung Tak Park Yonsei University, K | orea |
| Role of entresto | in CKD | | Ki-Pyo Kim Inha University, Kor | rea |
| 10:30-12:30 | | ecialist Physician Course 2 es in dialysis patients | KOR | Room 2 |
| Chair(s) | Jung Geon Lee | Namseoul Clinic & Dialysis Unit, Korea | | |
| Sleep quality and insomnia in hemodialysis patients | | Eun Lee Yonsei University, K | orea | |
| Nutritional inte | ventions in hemod | ialysis patients; How to do it? | Yeji Woo Inje University, Kore | ea |
| Infection contro | l in hemodialysis u | nit | Jin Yong Kim Incheon Medical Ce | enter, Korea |
| | tocol in hemodialy | | Yu Bin Seo | |

| 10:30-12:30 | Dialysis Nur | se Course 2 | KOR | Room |
|-----------------------|---------------------------------|--|---|---------------------|
| Chair(s) | Joon Ho Song Kyung-hwan Jeon | Inha University, Korea g Kyung Hee University, Korea | | |
| 투석혈관 유지를 | 위한 monitoring과 s | urveillance | So Hee Han Hallym University, F | Korea |
| 투석환자의 적절 | 한 천자법 (어려운 케이 | 기스 위주) | Hye Seon Yu Inha University, Ko | rea |
| Quality control f | for HD patients (투석 | 실 인증평가를 바탕으로) | Jeonghwan Lee Seoul National Univ | versity, Korea |
| 투석 효율의 평기 | (Kt/V, URR) | | Jae Wan Jeon Chungnam Nationa | I University, Korea |
| 10:30-12:30 | KSN-KES Jo Endocrine issue | int Symposium (Korean Endocrine Society) es in CKD | KOR | Room |
| Chair(s) | Eun Young Lee Min-Seon Kim | Soonchunhyang University, Korea Asan Medical Center, University of Ulsan, Korea | | |
| GLP-1R agonist in DKD | | Nam-Hoon Kim Korea University, Korea | | |
| The role of mine | eralocorticoid recept | or antagonist in DKD | Yu Ho Lee Cha University, Kor | ea |
| 신장내과 의사가 | 알아야할 부갑상선 질 | 환 | Nam ki Hong Yonsei University, k | (orea |
| CKD-MBD: 새로 | ¹ 운 치료제 | | Ji Eun Kim Korea University, K | orea |
| 12:30-13:30 | Industry Syn | nposium 10 Sponsored by Otsuka | KOR | Room |
| Chair(s) | Yun Kyu Oh | Seoul National University, Korea | | |
| Tolvaptan in AD | PKD. 2 Years in Kore | a, What have we learnt and what's next viewpoint | Yong Chul Kim Seoul National University, Korea | |
| 12:30-13:30 | Industry Syn | nposium 11 Sponsored by SK chemicals | KOR | Room |
| Chair(s) | Gheun-Ho Kim | Hanyang University, Korea | | |
| Current and upd | late in secondary hyp | perparathyroidism | Hyeon Seok Hwa Kyung Hee Univers | 3 |
| 12:30-13:30 | Industry Syn | nposium 12 Sponsored by AstraZeneca | KOR | Room |
| Chair(s) | Hyeong-Cheon Par | k Yonsei University, Korea | | |
| FORVICA The o | volution of SGIT2i in | CKD management | Ju-Young Moon Kyung Hee Univers | |

Detailed Program

| 13:30-15:30 | National Pro | ojects in Nephrology | KOR | Room 1 |
|------------------|--------------------------------|--|--|--------------------------------|
| Chair(s) | Seungyeup Han Yong Kyun Kim | Keimyung University, Korea The Catholic University of Korea, Korea | | |
| National Projec | ts in Nephrology: Th | e KNOW-CKD Study | Kook-Hwan Oh Seoul National Uni | versity, Korea |
| Korean Organ T | ransplantation Regis | stry | Jaeseok Yang Yonsei University, I | Korea |
| 이식 거부반응 및 | ! 장기생존 바이오마 키 | H를 이용한 신장이식 면역조절 기술 개발 | Sangho Lee Kyung Hee Univers | ity, Korea |
| 2019년도 환자중 | 심 의료기술 최적화 인 | 면구사업: 의료기술 비교평가 후향연구 | Gang Jee Ko Korea University, K | orea |
| 13:30-15:30 | KORDS Repo | ort / Dialysis center Accreditation | KOR | Room |
| Chair(s) | Jongha Park Ki Ryang Na | Ulsan University, Korea Chungnam National University, Korea | | |
| 우리나라 투석 환자 특징 | | Young Eun Kwon Myongji Hospital, Hanyang University, Korea | | |
| 우리나라 투석환 | 자의 생존률 변화와 위 | 비험인자 | Tae Hee Kim Inje University, Kor | ea |
| 2021년 인공신장 | 실 인증평가 결과 보고 | 1 | Young-Ki Lee Hallym University, | Korea |
| 건강보험에서 운 | 영하는 다양한 학회주 | 도 인증제도의 현재 | Won Min Hwang Konyang University | |
| 의료급여 환자의 | 혈액투석 수가 개정 | | Seong Nam Kim Director, the Insura committee of KSN, | ance and Legal Affair Korea |
| 13:30-15:30 | | Oint Symposium (Korean Society of Clinical Nutrition) 함께 하는 맛있는 저칼륨/저인 식이 | KOR | Room |
| Chair(s) | Seo Rin Kim Sung Nim Han | Pusan National University, Korea Seoul National University, Korea | | |
| Hyperphosphate | emia in ESRD: Conse | equences and Medical managements | Ji Yong Jung Gachon University, | Korea |
| Low-phosphoru | s diet for ESRD patie | ents in South Korea | In Seok Lee Kyung Hee Univers Korea | ity Medical Center, |
| Cooking class to | o restrict phosphoru | s & potassium intake | Eun Jeong Choi Hanyang Universit | y, Korea |
| Cooking class to | o restrict nhosnhoru | s & potassium intake | Woo Jeong Kim | ce Hospital, Korea |

| 13:30-15:00 | KSN Coopera | ative Study | KOR | Room 3 |
|------------------|----------------------------------|--|---|------------------------|
| Chair(s) | Sang Heon Song Tae-Hyun Yoo | Pusan National University, Korea Yonsei University, Korea | | |
| 근거중심의 고령 | 만성콩팥병 환자 진료 | 지침 | Yu Ah Hong The Catholic Unive | ersity of Korea, Korea |
| The optimal ma | nagement of CKD-ME | BD in dialysis patients | Young Joo Kwor Korea University, | |
| | 날기신부전 환자에서 인 포이에틴 용량 처방에 | 공신경망을 통한 혈중 적혈구 수치 예측 알고리즘 개발과 대한 연구 | Tae-Hyun Yoo Yonsei University, | Korea |
| 15:30-17:30 | Ethics Educa R&D cases in ki | R tion 필수강의 윤리교육 idney disease | KOR | Room ' |
| Chair(s) | Byung Chul Shin Sung Hyun Son | Chosun University, Korea Hanseo Hospital, Korea | | |
| 소셜네트워킹 및 | 민디어 이용에서의 의 | 료윤리 | ChangYun Woo Asan Medical Cer Ulsan, Korea | iter, University of |
| 의사 집단행동에 | 대한 윤리적 문제 | | Deoksun An Korea University, I | Korea |
| 인공신장실에서 | 의 윤리적 문제 | | SangWook Kim Gwangmyeong So Korea | o medical clinic, |
| 인공신장실에서 | 흔히 접하는 법적문제 | | Dooryoon Hyun SeSeung LLC, Kor | ea |
| 15:30-17:30 | Kidney Acad The updates in t | emy the treatment of chronic kidney disease | KOR | Room |
| Chair(s) | Yoon Chul Jung | Bundang Jesaeng General Hospital, Korea | | |
| Management a | nd treatment goals fo | r patients with chronic kidney disease | Won Min Hwang Konyang Universit | • |
| Application of r | new therapeutic agen | nts in renal anemia | Ji-Won Min The Catholic Unive | ersity of Korea, Korea |
| Treatment for m | ineral bone disorder | in chronic kidney disease | Shin Young Ahn Korea University, I | Korea |
| New treatment | drugs for hyperkalen | nia | Kyeong Min Kim Eulji University, Ko | |
| 17:30-18:30 | General Asso | | KOR | Room |

| Day 1 September 2 (Thursday) | | | | | |
|------------------------------|--|--|--|--|--|
| 10:40-12:40 | Oral Communications 1 Chronic Kidney Disease 1 | ENG | Room 4 | | |
| Presentation | n No. Title | Present | ing Author | | |
| OC1-01 | Associations between urinary 11-dehydrothromboxane B2 and laboratory parameters in obese and non-obese aspirin-treated patients with cardiorenal syndrome | Kseniya Lukyane Saint Petersburg S | ts tate University, Russi | | |
| OC1-02 | Behavioral characteristics and related factors among chronic kidney disease patients of South Korea during COVID-19 pandemic | Yaerim Kim Keimyung Universi | ry, Korea | | |
| OC1-03 | The effect of a patient blood management program on renal outcome in patients with chronic kidney disease | Hyeon Jin Min Korea University A | nam Hospital, Korea | | |
| OC1-04 | Omega-3 polyunsaturated fatty acid attenuates uremia-induced brain damage in mice. | Young Rok Ham Chungnam National University, Korea | | | |
| OC1-05 | The rapid decline of kidney function is associated with the rapid decline of health-related quality of life in chronic kidney disease: from the KNOW-CKD study | Hyo Jin Kim Pusan National Un | Hyo Jin Kim Pusan National University Hospital, Kore | | |
| OC1-06 | Fibrotic severity of non-alcoholic fatty liver disease is associated with higher risk of incident chronic kidney disease | Mi Jung Lee CHA University, Ko | Mi Jung Lee CHA University, Korea | | |
| OC1-07 | Oral Fungal Infection in CKD Population | MohanKumar N Manipal University | India | | |
| OC1-08 | Association the Triglyceride-glucose (TyG) index and Coronary Artery Calcification Progression in Non-Diabetic Chronic Kidney Disease | Kang Yoon Lee Gangnam Severan | ce Hospital, Korea | | |
| OC1-09 | Novel Approach to the Relation of Environmental Exposure and Kidney Dysfunction: Data analysis from Korean National Environmental Health Survey (KoNEHS) 2015-2017 | Kyung Don Yoo Ulsan University Ho | ospital, Korea | | |
| OC1-10 | Different impact of dietary fatty acid on all-cause mortality according to the kidney function based on the nation-wide population study | Yaerim Kim Keimyung Universi | y, Korea | | |
| OC1-11 | Time restricted feeding ameliorates fibrosis by restoring disrupted peripheral clock in adenine induced CKD model | Yina Fang Korea University A | nam Hospital, Korea | | |
| OC1-12 | Peripheral neuropathy can predict all-cause mortality in chronic kidney disease: Results from the National Health and Nutrition Examination Survey, 1999 to 2004 | Jin Seon Jeong Seoul Veterans Ho | spital, Korea | | |

| 13:40-15:40 Oral Communications 2 Glomerular Disease ENG | | | | | | | |
|--|--|---|--|--|--|--|--|
| Presentation | | | Room 4 | | | | |
| OC2-01 | The novel neutrophil population, Siglec-F+ neutrophils, induced renal fibrosis by collagen production | Seungwon Ryu Seoul National University, Korea | | | | | |
| OC2-02 | Circulating proteasome activity in Plasma as a Potential Biomarker of Chronic Kidney Disease | Soie Kwon Seoul National Univ | Soie Kwon Seoul National University Hospital, Korn | | | | |
| OC2-03 | Involvement of Mechanosensitive Channel Piezo1 in Renal Fibrosis | Xiaoduo Zhao Sun Yat-sen University, China | | | | | |
| OC2-04 | Antifibrotic effects of the chemokine (C-C Motif) Ligand 8 blockade in kidney tubular epithelial cell | Jangwook Lee Dongguk University | llsan Hospital, Kore | | | | |
| OC2-05 | P-glycoprotein Expressing IL-17A+IFN- + Th17/1 Cells Are Refractory to glucocorticoids in nephrotic syndrome Akhilesh Jaisv Sanjay Gandhi P Medical Science | | Graduate Institute c ndia | | | | |
| OC2-06 | Canagliflozin attenuates Renal Tubulointerstitial Fibrosis of Hyperuricemic Nephropathy in Rats | Jiali Wei Hainan General Hospital, China | | | | | |
| OC2-07 | The impact of obesity on glomerulonephritis: A multicenter cohort study of kidney biopsy over 40 years | Tae-Bum Kim Korea University An | am Hospital, Korea | | | | |
| OC2-08 | Depleted HDAC3 attenuates hyperuricemia-induced renal interstitial fibrosis via miR-19b-3p/SF3B3 axis | Ziyang Jing Hainan General Hos | pital, China | | | | |
| OC2-09 | Analysis on the change of m6A RNA methylation profile in kidney fibrosis | Ara Cho Seoul National Univ | ersity, Korea | | | | |
| OC2-10 | Characteristics of rapid progressors in the Korean patients with Autosomal Dominant Polycystic Kidney Disease: results from the KNOW-CKD study Hayne Cho Park Kangnam Sacred Hear | | eart Hospital, Korea | | | | |
| 0C2-11 | Protective Effect of SIRT-1 Activator on Endothelial Dysfunction and Renal Injury in Aging Mice Kidney | Hyung Duk Kim The Catholic University of Korea, Seoul S Mary's Hospital, Korea | | | | | |
| OC2-12 | Mitochondrial structural and ROS system are down-regulated under renal fibrosis process | Soie Kwon Seoul National Univ Korea | ersity Hospital, | | | | |

| Day 1 September 2 (Thursday) | | | | | |
|------------------------------|---|--|--|--|--|
| 15:40-16:30 | Oral Communications 3 Inherited Kidney Disease/Pediatric Nephrology | ENG Room 4 | | | |
| Presentation | No. Title | Presenting Author | | | |
| OC3-01 | Modeling of fabry disease nephropathy using patient derived induced pluripotent stem cells and kidney organoids | Sheng Cui The Catholic University, Korea | | | |
| OC3-03 | Efficacy and safety of long-term use of Rituximab in pediatric patients nephrotic syndrome | with Naye Choi Seoul National University Hospital, Korea | | | |
| OC3-04 | Acute pyelonephritis and urinary tract infections in pediatric patients: diagnostic and prognostic role of High Mobility Group Box-1 (HMGB1) | | | | |
| OC3-05 | P-gp and/or HDAC2 regulates steroid responsiveness in childhood nephrotic syndrome | Harshit Singh Sanjay Gandhi post Graduate institute of Medical Science, India | | | |
| OC3-06 | Paricalcitol attenuated cyst growth and renal fibrosis via modulation o phenotype transition of renal tubular cells in polycystic kidney | Jung Won Lee Ewha Womans University, Korea | | | |

| Day 1 September 2 (Thursday) | | | | | |
|---|---|--|-------------------------|--|--|
| 16:40-17:40 | Oral Communications 4 Chronic Kidney Disease 2 | ENG | Room 4 | | |
| Presentation | No. Title | Present | ing Author | | |
| OC4-01 Dietary fiber intake amount affects the beneficial effects of diet potassium on reduced prevalence of chronic kidney disease | | Jeonghwan Lee Seoul National University | | | |
| OC4-02 | The role of STAT3 against fibrosis injury in human podocyte and tubular epithelial cell through proteomic profiling | Semin Cho Seoul National Uni | versity Hospital, Korea | | |
| OC4-03 | The effect of DNA methylation in the development of CKD in middle aged general population: an Epigenome-Wide Association Study using Korean Genome and Epidemiology Study database. | Ji Eun Kim Korea University Guro Hospital, Korea | | | |
| OC4-04 | Erythropoiesis stimulating agent inhibit proximal tubular cell G2/M arrest to attenuate renal fibrosis | Donghwan Oh Gangnam Severan | ce Hospital, Italy | | |
| OC4-05 | Graphene Quantum Dots alleviate fibrosis of subtotal 5/6 nephrectomy (5/6NX) via enhancing mitochondrial ATP Anaplerosis | Kyu Hong Kim Seoul National Uni | versity, Korea | | |
| OC4-06 | Fibrotic burden in patients with hepatitis B virus-related cirrhosis is independently associated with adverse kidney outcomes | Chan-Young Jun Severance Hospita | , | | |

| Day 2 September 3 (Friday) | | | | | |
|----------------------------|--|---|--|--|--|
| 08:30-10:30 | Oral Communications 5 Acute Kidney Injury | ENG | Room 4 | | |
| Presentatio | n No. Title | Presen | ting Author | | |
| OC5-01 | Continuous renal replacement therapy for acute kidney injury in critically ill patients with cancer | Da Woon Kim Pusan National Ur | niversity Hospital, Kore | | |
| OC5-02 | RNA methylation signaling pathway mediated by METTL3 affects the development of acute kidney injury and chronic kidney disease transition | Jeonghwan Lee Seoul National Un | iversity | | |
| OC5-03 | IL-2/Anti-IL-2 complex attenuates renal cold ischemia reperfusion injury after kidney transplantation through expansion of regulatory T cells. | Joon Young Jan Seoul National Un |] iversity Hospital, Korea | | |
| OC5-04 | Withdrawal from exposure to particulate matter results in reversible changes in the kidney | Sung Gi Yoon Korea University A | nsan Hospital, Korea | | |
| OC5-05 | Anti-apoptotic and anti-fibrotic effect of crocetin against cisplatin-induced acute kidney injury in rats via PI3K/Akt/Nrf2 pathway | Deepika Singh Rama University, I | ndia | | |
| OC5-06 | Prediction of the Clinical Outcomes in Patients with CRRT using Body Composition Monitoring: A Machine Learning Approach to a Multicenter Cohort Study | Kyung Don Yoo Ulsan University H | ospital, Korea | | |
| OC5-07 | Comparison of outcomes of mild and severe community- and hospital- acquired acute kidney injury | Kristianne Rach University of Santo Philippines | el Medina - Liabres o Tomas Hospital, | | |
| OC5-08 | GDF-15 predicts in-hospital mortality of critically ill patients with acute kidney injury requiring continuous renal replacement therapy | Soojee Jeon Kyungpook Nation Korea | al University Hospital, | | |
| OC5-09 | The effects of salt modification on the repair of ischemic acute kidney injury | Junseok Jeon Samsung Medical | Center, Korea | | |
| OC5-10 | Initial emergency room - 6 hours Urine Volume is an Important Factor for Critically ill Patient's Survival. | Soo Hyun Han Chungnam Nation Korea | al University Hospital, | | |
| OC5-11 | KIDNEY DYSFUNCTION AND COVID-19: CHARACTERISTICS, PREDICTIVE FACTORS, AND INFLUENCE OF AGE | Edoardo La Port a Gaslini Children H | | | |
| OC5-12 | BBuilding a Prediction Model for Postoperative Acute Kidney Injury using Machine Learning | Ji Won Min The Catholic Unive St. Mary's Hospita | ersity of Korea, Buche | | |

| Day 2 September 3 (Friday) | | | | |
|----------------------------|---|--|--|--|
| 10:40-12:40 | Oral Communications 6 Kidney transplantation | ENG Room 4 | | |
| Presentatio | n No. Title | Presenting Author | | |
| OC6-01 | Risk of new-onset atrial fibrillation among heart, kidney and liver transprecipients: insights from a national cohort study | Olant Wei Syun Hu China Medical University Hospital, Taiwa | | |
| OC6-02 | Discovery of cellular and genetic signatures of immune tolerance in kid transplant recipients through single cell RNA sequencing analysis | they Hanbi Lee The Catholic University of Korea, Seoul S Mary's Hospital, Korea | | |
| OC6-03 | Anti-C4d chimeric antigen receptor regulatory T cells suppressed allog rejection in ABO-incompatible heart transplantation | raft Sun-Kyung Lee Seoul National University Hospital, Korea | | |
| OC6-04 | Criteria of suitable candidates for expanded criteria donor kidney transplantation | Tai Yeon Koo Seongnam Citizens Medical Center, Kore | | |
| OC6-05 | Economic and Insurance Outcomes for Living Kidney Donors and Match Comparators in Korea | hed Sehoon Park Korean Armed Forces Capital Hospital, India | | |
| OC6-06 | Effect of minicircle vector encoding anti-CD25/IL-10/CXCR3 fusion prote in allograft rejection model | Yoo-Jin Shin The Catholic University, Korea | | |
| OC6-07 | The cumulative dose-dependent benefit of metformin in kidney transplantation recipients | Soie Kwon Seoul National University Hospital, Korea | | |
| OC6-08 | Comparison of CT Volumetry vs Nuclear Renography to Predict Remaini Kidney Function After Uni-nephrectomy in Living Kidney Donors | ing Sang Hun Eum The Catholic University of Korea, Seoul S Mary's Hospital, Korea | | |
| OC6-09 | Mortality Risk Factors of COVID-19 Infection in Kidney Transplantation Recipients: A Systematic Review and Meta-Analysis of Cohorts and Clinical Registries | Suwasin Udomkarnjananun Chulalongkorn University, Thailand | | |
| OC6-10 | Non-invasive diagnosis for acute rejection using blood mRNA signature reflecting allograft status in kidney transplantation | e Ahrim Han Kyung Hee University Hospital at Gangdong, Korea | | |
| OC6-11 | High pretransplant FGF-23 level is associated with poor graft survival a persistent vitamin D insufficiency in kidney transplant patients | nd Jung Hwa Ryu Ewha Womans University, Korea | | |
| OC6-12 | Prolonged IL-6 secretion activates inflammation amplifier loop (IL-6+IL- in the fibroblast derived from Chronic antibody mediated rejection in re allograft recipient | | | |

| 17:00-19:00 | Oral Communications 7 Hypertension / Fluid, Electrolyte & Acid Base | ENG | Room 4 |
|---------------|---|---|-----------------------------|
| Presentation | n No. Title | Present | ng Author |
| OC7-01 | Duloxetine reduces lithium-induced polyuria by increasing aquaporin-2 transcription | Sua Kim Hanyang University, Korea | |
| 0C7-02 | Tolvaptan resistance predicts short-term poor prognosis in oncologic patients with the syndrome of inappropriate anti-diuresis | Antonio Lacquani Papardo Hospital, l | |
| 0C7-03 | Effect of Water Intake and Water Balance on All-cause and Cardiovascular Mortality based on the Nation-Wide Population Study | Seonmi Hwang Seoul National Univ | ersity Hospital, Kore |
| OC7-04 | N-3-oxododecanoyl homoserine lactone induces receptor-interacting protein kinase 1-dependent apoptosis in synergy with lipopolysaccharide in endothelial cells | Hyang Yun Lee Chung-Ang Univers | ity Hospital, Korea |
| OC7-05 | Cardiovascular and renal outcomes of the new intensive blood pressure target in chronic kidney disease population in Korea | Soo-Young Yoon Kyung Hee University Medical Center, Korea | |
| OC7-06 | Paricalcitol ameliorates hypoxia- and TGF- 1-induced injury in kidney pericytes | Jeong-Hoon Lim Kyungpook National University Chilgok Hospital, Korea | |
| OC7-07 | Protective effect of Resveratrol on glycocalyx loss due to endothelial cell dysfunction in renal aging | Donghyuk Kang The Catholic Univer Mary's Hospital, Ko | sity of Korea, Seoul rea |
| OC7-08 | CT-derived renal sinus fat quality and quantity and cardiometabolic risk | Haekyung Lee Soonchunhyang University Seoul Hospit Korea | |
| OC7-09 | Protective and anti-inflammatory effects of N-Acetylcysteine in pulmonary artery hypertension model of rat | Rahul Kumar Jagannath Kishore | College, India |
| OC7-10 | Self management for pregnant women with hypertension during the Covid 19 pandemic in Indonesia | Indra Suardi Hasanuddin University Makassar, Indonesia | |
| 0C7-11 | Correlation of Systolic Blood Pressure and Vascular Damage Status After Intervention of Synbiotic Drink of Stelechocarpus burahol with Lactobacillus casei and Lactobacillus plantarum Isolates: A Dyslipidemic Rats Model Study | Alfian Novanda Yosanto Universitas Islam Indonesia, Indonesia | |
| 0C7-12 | Low estimated GFR predicts hemorrhagic transformation in acute ischemic stroke: A meta-analysis | Gaurav Nepal Tribhuvan Universit Nepal | y Institute of Medici |

| | Day 3 September 4 (Saturday) | | |
|-------------|---|---|------------------------|
| 08:30-10:30 | Oral Communications 8 Dialysis HD, PD | ENG | Room 4 |
| Presentatio | n No. Title | Present | ing Author |
| OC8-01 | Change of peritoneal proteomes in response of fibrotic injury and Cyclo His-Pro treatment | Ji Eun Kim Korea University G | uro Hospital, Korea |
| OC8-02 | Phosphodiesterase-5 inhibitor/SB204741 in combination almost completely ameliorate fibrotic potential of human peritoneal fibroblasts isolated from CAPD patients | Saurabh Chaturv Sanjay Gandhi Pos Medical Sciences, | t Graduate Institute o |
| OC8-03 | The Association Between Body Composition Parameters and Quality of Life in Peritoneal Dialysis Patients | Seon Mi Kim Seoul National Uni | versity Hospital, Kore |
| OC8-04 | Sitagliptin treatment for peritoneal mesothelial cell tight junction proteins and function in peritoneal dialysis | Chor Ho Jo Hanyang Universit | y, Korea |
| OC8-05 | Circulating Endostatin Levels and Cardiac Mortality in Hemodialysis Patients | Miji Kim Kyung Hee Univers Gangdong, Korea | sity Hospital at |
| OC8-06 | Steady exercise improves hand grip and leg muscle strength in hemodialysis patients | Ran-hui Cha National Medical (| Center, Korea |
| OC8-07 | Intradialytic Monitoring of Stroke Volume using EIT: A Feasibility Study | Ahrim Han Kyung Hee Univers Gangdong, Korea | sity Hospital at |
| OC8-08 | Nutritional intervention in intensive care unit patients undergoing continuous renal replacement therapy | Jihyun Yang Korea University A | nam Hospital, Korea |
| OC8-09 | Dry weight adjustments for hemodialysis patients using machine learning. | Hae Ri Kim Chungnam Nationa Hospital, Korea | al University Sejong |
| OC8-10 | A Study of prevalence of Hepatitis C Virus (HCV) infection in End Stage Renal Disease (ESRD) patients on maintenance Hemodialysis and efficacy of Sofosbuvir/Velpatsavir and Sofosbuvir/Daclatsavir regimen | Manzoor Parry Sher-I-Kashmir Ins Sciences, India | titute of Medical |
| OC8-11 | Serum free light chains in hemodialysis patients: a bridge between inflammation, immune system dysfunction and mortality risk | Antonio Lacquan Papardo Hospital, | |
| OC8-12 | Comparison of Anticoagulation and no Anticoagulation in Patients with Atrial Fibrillation on Dialysis: A Single-Center Retrospective Study | Miryung Kim Wonju Severance Korea | Christian Hospital, |

| Day 3 September 4 (Saturday) | | | |
|------------------------------|---|--|-------|
| 17:00-19:00 | Oral Communications 9 Diabetic nephropathy / Geriatric nephrology | ENG Room | m 4 |
| Presentation | No. Title | Presenting Author | |
| OC9-01 | PTEN-induced kinase 1 exerts a protective effect in diabetic tubulopathy by attenuating necroptosis. | Yun Jung Ko Bundang CHA General Hospital, Kor | ·ea |
| 0 C9-02 | In-silico Interaction Studies Of Marine Organisms Metabolites With Drug Target SIRT1 Of Diabetic Kidney Disease | Chakresh Kumar Jain Jaypee Institute of Information Technology, India | |
| OC9-03 | Metabolic images using fluorescence lifetime imaging reveals metabolic alteration in proximal tubular epithelial cells in type 2 diabetes | Woo Young Kwon Kyung Hee University, Korea | |
| OC9-04 | Spexin-based galanin receptor 2 agonist (NS200) improves diabetic nephropathy in type 2 diabetes | Boo Yeun Park Korea University Ansan Hospital, Ko | ırea |
| OC9-05 | Modulation of STAT3 ameliorates mitochondrial dysfunction induced by high glucose stimulation | Jung Nam An Hallym University Sacred Heart Hos Korea | pital |
| OC9-06 | A virtual diagnosis of diabetic nephropathy using metabolomics in place of kidney biopsy | Da Woon Kim Pusan National University Hospital, | Kore |
| OC9-07 | Targeting Nox with Pan-Nox Inhibitor in aging diabetic kidney | Sung Gi Yoon Korea University Ansan Hospital, Ko | ırea |
| OC9-08 | Urine myo-inositol, the novel prognostic biomarker for diabetic kidney disease: a targeted metabolomics study using NMR | Soie Kwon Seoul National University Hospital, F | Kore |
| OC9-09 | Gymnema Sylvestre Extract Attenuate The Pathological Progression Of Diabetic Nephropathy In Rats | Sumit Rajput Bharati Vidyapeeth Deemed Univers India | sity, |
| OC9-10 | Cardiovascular death in patients with type 2 diabetes with or without kidney disease: a nationwide population-based study | Semin Cho Seoul National University Hospital, R | Kore |
| 0C9-11 | Protective effect of AM095, a lysophosphatidic acid receptor 1 antagonist, on renal aging | Yongjie Jin The Catholic University of Korea, Ko | rea |
| OC9-12 | Exploration study on Advanced Directives Decision-Making Experiences of Korean Elderly Patients with End-Stage of Renal Disease | Soo-Young Yu Jeonju University, Korea | |

| Abstract No. | Title | Presenting Author |
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| 2023 | A mitochondrial cardiolipin targeting peptide ameliorates acute kidney oxidative damage | Soie Kwon Seoul National University Hospital, Kore |
| 2024 | Retroperitoneal Fibrosis with Postrenal Acute Kidney Injury Responding to Steroid Treatment: A Case Report | Soyoung Lee Eulji University Hospital, Korea |
| 2026 | Anuria in a patient following COVID-19 infection | Bhavesh M All India Institute of Medical Sciences, India |
| 2044 | Clinical characteristics of acute kidney injury in patients with glyphosate surfactant herbicide intoxication | A Young Cho Presbyterian Medical Center, Korea |
| 2051 | Renal outcome of heart failure patients with left ventricular assist device | Ho Jin Jeon Samsung Medical Center, Korea |
| 2078 | Acute Kidney Injury due to Intravenous Detergent Administration: A Case Report | Sungbin Park Konyang University Hospital, Korea |
| 2087 | Expansion and Characterization of Regulatory T cell Populations from Acute Kidney Injury Patients | Ye Na Kim Kosin University Gospel Hospital, Korea |
| 2101 | The study of circuit survival during continuous renal replacement therapy | Jae Seok Kim Wonju Severance Christian Hospital, Korea |
| 2122 | Measurement of Serum Total Cholesterol and Kidney Malondialdehyde Levels on High-Fat Induced Rats (Rattus Norvegicus) after Intervention of Synbiotic Drink of Stelechocarpus burahol with Lactobacillus casei and Lactobacillus plantarum Isolates | Alfian Novanda Yosanto Universitas Islam Indonesia, Indonesia |
| 2208 | Potential Nephrotoxicity of Phellinus Linteus | Jin Ho Hwang Chung-Ang University Hospital, Korea |
| 2209 | Nephrotoxicity of Inonotus Obliquus | Jin Ho Hwang Chung-Ang University Hospital, Korea |
| 2210 | Effect of fluid overload on survival in patients with sepsis-induced acute kidney injury receiving continuous renal replacement therapy | II Young Kim Pusan National University Yangsan Hospital, Korea |
| 2211 | Acute kidney injury presenting as Plasma cell leukemia | Amar Ranjan All India Institute Of Medical Science, India |

| Abstract No. | Title | Presenting Author |
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| 2251 | CO releasing molecule-2 ameliorates acute kidney injury through mitochondrial fitness | Jamal Uddin Ewha Womans University, Korea |
| 2260 | Genomic background analysis of recovery phase after ischemic/ reperfusion injury stage in aging kidneys with mice model | Min Jee Jo Korea University Guro Hospital, Korea |
| 2270 | Platelet lymphocyte ratio as a prognostic factor in non septic acute kidney injury outcome. | Ha Nee Jang Gyeongsang National University Hospital, Korea |
| 2271 | A case of rhabdomyolysis with acute kidney injury complicated by posterior reversible encephalopathy syndrome (PRES) | Chang Min Heo Inje University Haeundae Paik Hospital, Korea |
| 2282 | Pembrolizumab induced focal segmental glomerulosclerosis | Hakeong Jeon Pusan National University Hospital, Korea |
| 2294 | Coronavirus (COVID-19) induced oxidative stress and proinflammatory cytokines leads to Acute Kidney Injury (AKI). | Rajiv Nehra Rajkiya Medical College, Jalaun (Orai), U.F India |
| 2300 | Ginsenoside Rg3 attenuates ischemia reperfusion induced renal injury in mice via induction ofautophagy flux. | Jin Ah Shin Chungnam National University, Korea |
| 2308 | Incidence and risk factors associated with fenofibrate-induced acute kidney injury | Seongmin Kim Gyeongsang National University Changwon Hospital, Korea |
| 2343 | URINARY TIMP2*IGFBP7 IS AN EARLY BIOMARKER OF ACUTE KIDNEY INJURY AND EARLY PREDICTS CRRT START IN CRITICALLY ILL PATIENTS | Antonio Lacquaniti Papardo Hospital, Italy |
| 2356 | Preoperative Steroids in the Prevention of Post Cardiopulmonary Bypass- Associated Acute Kidney Injury | Martin Kristoffer Ogbac Perpetual Help Medical Center - Las Piñas, Patna, Philippines |
| 2358 | Incidence, risk factors and prognosis of acute kidney injury in hospitalized acute cholangitis patients. | Woo Ram Bae Gyeongsang National University Changwon Hospital, Korea |
| 2360 | 2-Mercaptoethanol protects DNA damage induced by renal ischemia and reperfusion injury | Daeun Moon Jeju National University, Korea |
| 2364 | Validation of prediction model for successful discontinuation of continuous renal replacement therapy | Junseok Jeon Samsung Medical Center, Korea |

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| 2367 | Acute kidney injury in patients with severe fever with thrombocytopenia syndrome | Jinmi Lee Kangwon National University Hospital, Korea |
| 2388 | Biological effect of cirsiliol on xanthine oxidase: Medicinal importance and therapeutic benefit in the medicine | Dinesh Kumar Patel Sam Higginbottom University of Agriculture, Technology and Sciences, India |
| 2389 | Biological effect of nicotiflorin against renal impairment: Therapeutic benefit and pharmacological potential in the medicine | Dinesh Kumar Patel Sam Higginbottom University of Agriculture, Technology and Sciences, India |
| 2396 | Rac1 inhibition mitigates ischemia/reperfusion-induced renal injury | Min Jung Kong Kyungpook National University, Korea |
| 2398 | Eculizumab therapy on a patient with co-existent lupus nephritis and C3 mutation-related atypical haemolytic uremic syndrome: a case report | Mi Jung Kim Asan Yuri Hospital, Korea |
| 2498 | Pathologic findings of acute kidney injury caused by primary hyperparathyroidism | Tae Hyun Ryu Bong Seng Memorial Hospital, Korea |
| 2505 | Changes experienced by patients with chronic kidney disease during hemodialysis therapy and the factors that influence it | Supriadi Supriadi Universitas Terbuka Majene, Indonesia |
| 2519 | Acute kidney injury and its outcomes in patients with Covid -19–A Prospective cohort at a single center in Pakistan | Faiza Saeed The Indus Hospital, Pakistan |
| 2554 | Outcome of pregnancy associated acute kidney injury requiring hemodialysis: A case series from eastern part of India | Amresh Krishna Indira Gandhi Institute of Medical Sciences, Patna, India |
| 2575 | Kidney ischemia-reperfusion induces lung injury and lung cell cilia disruption via oxidative stress | Young Kwon Han Kyungpook National University, Korea |
| 2578 | Mental Health Problems, Digital Aging, And Risk Mitigation in The Older People with Acute Kidney Injury Disease | Rosinta Hotmaida Pebrianti Purba The Ministry of National Development Planning, Indonesia |
| 2583 | Kidney Disease Risk Factor for productive age in Indonesia Using IFLS 5 | Derizal Derizal State Islamic Institute of Bukittinggi, Indonesia |

| Acute Kidney Injury | | |
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| Abstract No. | Title | Presenting Author |
| 2588 | Response and dynamics of renal function for transplant-eligible multiple myeloma patients who were treated with novel agent: multicenter retrospective study | Yaeni Kim The Catholic University of Korea, Seoul St. Mary's Hospital, Korea |
| 2591 | Water Therapy: To Reduce The Risk Of Acute Kidney Injury. | Muhammad Irzaq Padang State University, Indonesia |
| 2592 | Tranexamic acid-induced acute bilateral cortical necrosis in epidural hematoma patient | Byung Chul Shin Chosun University Hospital, Korea |
| 2602 | Beryllium Induced Acute Renal Injury: Reversal by Combination Therapy of Aloe vera with piperine | Narottam Das Agrawal Rajkiya Medical College, Jalaun (Orai), U.P India |

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| 2138 | Comprehensive Genetic Diagnosis of Pediatric Patients with Cystic Kidney Disease | Jeesu Min Seoul National University Hospital, Kore |
| 2143 | Ceriazirconia antioxidant nanoparticles attenuate kidney injury in Fabry disease model by enhancing autophagy flux | Se-Hee Yoon Konyang University, Korea |
| 2194 | Genotype-phenotype analyses in Korean X-linked Alport syndrome: a multicenter study | Ji Hyun Kim Seoul National University Bundang Hospital, Korea |
| 2228 | Role of P-glycoprotein and Multidrug Resistance-associated Protein-1 and effect of mdr-1 gene polymorphism on P-gp expression in Idiopathic Nephrotic Syndrome in children | Harshit Singh Sanjay Gandhi post Graduate institute of Medical Science, India |
| 2292 | Korea, Republic of | Young-jin Song Chuncheon Sacred Heart Hospital, Kore |
| 2568 | Human kidney organoids revealed the therapeutic efficacy of glutathione for renal Fabry disease | Jinwon Kim The Catholic University, Korea |

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| 2130 | Immunohistochemical Expression of Orai1 in Human Diabetic Nephropathy and Its Significance for Prognosis and as Therapeutic Target | Yooujin Kwak Yonsei University Wonju, Korea |
| 2156 | Advantages of metformin therapy for the prevention and mitigation of diabetic foot ulcer in patients with diabetic kidney disease: A real-world evidence from large-scale cohort | Soie Kwon Seoul National University Hospital, Korea |
| 2204 | Xanthine oxidase inhibitor ameliorates high glucose-induced oxidative stress by activating AMPK via the activation of purine salvage pathway in glomerular endothelial cells | Yu Ah Hong The Catholic University of Korea, Daejeon St. Mary's Hospital, Korea |
| 2258 | Xanthine oxidase inhibitor attenuates renal oxidative through the inhibition of VEGF-NADPH oxidases in diabetic nephropathy | Yu Ah Hong The Catholic University of Korea, Daejeon St. Mary's Hospital, Korea |
| 2378 | Clinicopathologic features differentiating diabetic nephropathy and nondiabetic renal disease in patients with type 2 diabetes and rapid and slow progressors in patients with diabetic nephropathy | Eunsil Koh The Catholic University of Korea, Yeouido St. Mary's Hospital, Korea |
| 2380 | Genetic deletion or pharmacologic intervention of p300/CBP-associated factor attenuates renal injury by suppressing cell apoptosis in diabetes | Sungjin Chung The Catholic University, Korea |
| 2397 | Placental Growth Factor Deficiency Aggravates Diabetic Nephropathy Related to Glomerular Endothelial Cells and Pericytes Dysfunction | Ji Hee Lim The Catholic University of Korea, Seoul St Mary's Hospital, Korea |
| 2485 | DETERMINATION OF OXIDATIVE STRESS LEVEL IN DIABETES PATIENTS WITH OR WITHOUT NAPHROPATHY | Shweta Katiyar SBN Government PG College, Barwani, India |
| 2490 | Expression of miR-24-3p and miR-198 in newly diagnosed type 2 diabetes mellitus patients | Prasenjit Mitra All India Institute of Medical Sciences, Jodhpur, India |
| 2497 | Mfn2 Regulate High Glucose-Induced Mitochondrial Dysfunction and Apoptosis in Podocytes through PERK pathway | Yun Cao Renmin Hospital of Wuhan University; Hainan General Hospital, India |
| 2533 | Impaired Fasting Glucose is Associated with Renal Hyperfiltration in Young Adults: Nationwide Survey (KNHANE 2007- 2019) | Seung Kyo Park Yonsei University, Korea |
| 2590 | The role of miR-34a on the glomerular injury in diabetic nephropathy | Jimin Park Severance Hospital, Korea |

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| 2029 | Prevalence and Factors associated with Autonomic Dysfunction in Continuous Ambulatory Peritoneal Dialysis Patients | Thanawat Vongchaiudomchoke Lampang Hospital, Thailand |
| 2034 | The Occurrence of Peritonitis in Patients Undergoing Peritoneal Dialysis Associated with the Weather Variation; A Meta-analysis Study | Chinakorn Sujimongkol Loei General Hospital, Thailand |
| 2102 | RESULTS OF COMPARISON BETWEEN THE EFFECTIVENESS OF KT/V TESTING AND ANEMIA DURING PERITONEAL DIALYSIS | Oyunpurev Erdenechimeg Mongolian national university of mongolia Mongolia |
| 2137 | Psychosocial Impact of COVID-19 pandemic on patients with end-stage kidney disease on peritoneal dialysis | Boo Yeun Park Korea University Ansan Hospital, Korea |
| 2291 | Successful blockage of a pleuro-peritoneal fistula using pleurodesis in an elderly PD patient | Myeon-gyu Cho Chuncheon Sacred Heart Hospital, Korea |
| 2328 | The impact of CCL8 on peritoneal fibrosis and inflammatory activity | Yeonhee Lee Uijeongbu Eulji Medical Center, Eulji University, Korea |
| 2403 | Differential Effect of High Glucose and Mannitol on Binding of Tonicity-Responsive Enhancer Binding Protein (TonEBP) and ß-catenin to the E-cadherin Promoter and Phenotype Transition of Peritoneal Mesothelial Cells (MCs) | Hyun-Jung Kang Ewha Womans University Medical Center Korea |
| 2405 | Hyaluronan Synthase 2 plays a key role in Phenotype Transition of Peritoneal Mesothelial Cells (MCs) | Hyun-Jung Kang Ewha Womans University Medical Center Korea |
| 2414 | Exploring Agreement and Acceptance between Virtual Home Visits and In- person Home Visits for Peritoneal Dialysis patients—A Paired Study | Jin Chen University of Electronic Science and Technology of China, China |
| 2487 | Terguride and SB204741 reduce fibrotic potential of human peritoneal fibroblasts by targeting STAT3 pathway in patients receiving continuous ambulatory peritoneal dialysis | Saurabh Chaturvedi Sanjay Gandhi Post Graduate Institute of Medical Sciences, India |
| 2564 | The efficacy of nationwide 'Homecare for peritoneal dialysis patients' : A single-center, retrospective study | Wonji Jo Yonsei University, Korea |

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| 1010 | LEFT VENTRICULAR REMODELING IN DIALYSIS PATIENTS OF THE URBAN POPULATION OF UZBEKISTAN | Olimkhon Sharapov Tashkent Pediatric Medical Institute, Uzbekistan |
| 1011 | THE IMPACT OF CARDIOVASCULAR COMORBIDITY ON SURVIVAL IN DIALYSIS PATIENTS | Olimkhon Sharapov Tashkent Pediatric Medical Institute, Uzbekistan |
| 1014 | INFLUENCE OF CARDIOVASCULAR COMORBIDITY ON THE STRUCTURE OF DEATH IN DIALYSIS PATIENTS | Olimkhon Sharapov Tashkent Pediatric Medical Institute, Uzbekistan |
| 1019 | ADVERSE EFFECTS ON SURVIVAL OF REUSABLE DIALYSERS | Olimkhon Sharapov Tashkent Pediatric Medical Institute, Uzbekistan |
| 2025 | Comparison of effect and mechanism between nalfurafine hydrochloride and narrow-band ultraviolet B phototherapy in the treatment of pruritus in hemodialysis patients: A pilot study | Hanwul Shin Wonju Severance Christian Hospital, Korea |
| 2028 | Risk Factors for Intradialytic Hypotension during Hemodialysis among the End-stage Renal Disease Patients with Pre-existing Autonomic Dysfunction | Thanawat Vongchaiudomchoke Lampang Hospital, Thailand |
| 2038 | Efficacy and safety of intravenous midazolam/fentanyl for pain relief during vascular access intervention | Jin Ho Lee LEESIN Hemodialysis and Intervention Clinic, Korea |
| 2040 | A case of endovascular treatment of total occlusive lesion on vascular access through the rendezvous technique | Heeryong Lee LEESIN Hemodialysis and Intervention Clinic, Korea |
| 2041 | A case of sustained arm edema due to the jailing out of the basilic flow by the bare-metal stent of the cephalic arch | Heeryong Lee LEESIN Hemodialysis and Intervention Clinic, Korea |
| 2064 | A rare case of VUR-associated hydronephrosis in hemodialysis patient without residual renal function treated by percutaneous nephrostomy. | Ju Hwan Oh Presbyterian Medical Center, Korea |
| 2065 | Health insurance status is related to risk of mortality and hospitalization in Korean maintenance hemodialysis patients: a longitudinal cohort study | Gi Hyun Song Kangnam Sacred Heart Hospital, Korea |
| 2068 | Stepwise achievement of high convection volume in post-dilution hemodiafiltration: a prospective observational study | Hanbyul Choi Kangnam Sacred Heart Hospital, Korea |

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| Abstract No. | Title | Presenting Author |
| 2089 | Increased tricuspid regurgitation jet velocity as a predictor of acute decompensated heart failure in end-stage renal disease patients on maintenance hemodialysis | Youngchan Park Kosin University Gospel Hospital, Korea |
| 2100 | Epicardial adipose tissue radio-density is associated with all-cause mortality in patients undergoing hemodialysis | Kyoungjin Choi Soonchunhyang University Seoul Hospita Korea |
| 2107 | Comparison of absolute and functional Iron deficiency anaemia in terminal Chronic Kidney Disease (CKD) | Sdbpp Samarasekara University of Peradeniya, Sri Lanka |
| 2123 | Dialysis Adequacy Predictions Using a Machine Learning Method | Hyung Woo Kim Severance Hospital, Korea |
| 2125 | The importance of muscle mass for predicting intradialytic hypotension among patients undergoing maintenance hemodialysis | Hyung Eun Son Seoul National University Bundang Hospital, Korea |
| 2132 | Vaccination Rates among Hemodialysis Patients in Nueva Ecija & Aurora Provinces | Rommel Bataclan University of the East Ramon Magsaysay Medical Centre, Philippines |
| 2154 | Current status of consent for hemodialysis as life-sustaining treatment | Mee Yeon Park Samsung Medical Center, Korea |
| 2167 | Impact of the Platelet distribution width on mortality and cardiovascular events in End-stage kidney disease patients | Joo Eun Lee The Catholic University of Korea, Incheo St. Mary's Hospital, Korea |
| 2168 | Psychological Distress of Patients with End-Stage Kidney Disease Undergoing Dialysis during the 2019 Coronavirus Disease Pandemic | Jin Young Yu good-neighbor nursing hospital, Korea |
| 2170 | Clinical course, associated factors and outcome of ESRD patients affected with COVID-19: a single centered study. | Samia Kazmi Indus Hospital, Pakistan |
| 2183 | Nutritional Status Related to Dialysis Adequacy in Maintenance Hemodialysis Patients at Sleman Regional Hospital, Indonesia. | Nadira Dmas Getare Sanubari Universitas Gadjah Mada, Indonesia, Indonesia |
| 2190 | Detection of subclavian steal syndrome by Doppler ultrasound in hemodialysis patients | Yongseon Choi Hallym University Sacred Heart Hospital Korea |
| 2199 | Continuous renal replacement therapy as salvage therapy for critically ill patients with kidney failure with replacement therapy. | Sungmi Kim Pusan National University Hospital, Kore |

| Abstract No. | Title | Presenting Author |
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| 2200 | Integrating system of biosignals during hemodialysis: Continuous mOnitoriNg viTal slgN dUring hemodialysis (CONTINUAL) registry | Seon Mi Kim Seoul National University Hospital, Kore |
| 2201 | NT-proBNP for Heart Function and Volume Status in Hemodialysis Patients | Kyung Ho Lee Soonchunhyang University Bucheon Hospital, Korea |
| 2206 | Impact of neutrophil-to-lymphocyte ratio on aortic artery calcification and bone mineral density in patients with end-stage renal disease | Tae Hyun Ban The Catholic University of Korea, Eunpyeong St. Mary's Hospital, Korea |
| 2213 | Low muscle mass in patients receiving hemodialysis: correlations with noncoronary vascular calcification and the incidence of vascular access failure | Seok-hyung Kim Chuncheon Sacred Heart Hospital, Kore |
| 2230 | Short term aerobic cycling increase bone resorption markers in CKD/ESRD patients with fragility | Yi-Chou Hou Cardinal Tien Hospital, Taiwan |
| 2239 | Neutrophil extracellular traps and heparin-induced antibodies contribute to vascular access thrombosis in hemodialysis patients | Jwa-Kyung Kim Hallym University Sacred Heart Hospita Korea |
| 2244 | Clinical significance of plasma matrix metalloproteinase-2 and matrix metalloproteinase-9 levels to assess the cardiovascular risk in hemodialysis patients | Taeyoung Yang Bundang CHA General Hospital, Korea |
| 2268 | Circulating Neprilysin Level Predicts the Risk of Cardiovascular Events in Hemodialysis Patients | Shinyeong Kang Kyung Hee University Medical Center, Korea |
| 2274 | Peripheral Arterial Occlusive Disease in the Vascular Access Arm | Hansae Kim Q hospital, Korea |
| 2293 | Endovascular management of Inadvertent Subclavian Artery Catheterisation | Blessy Sehgal Bhalla Sribalaji action medical institute new delhi, India |
| 2297 | Evaluation of failing hemodialysis fistulas with multidetector CT angiography: comparison with conventional angiography | Blessy Sehgal Bhalla Sribalaji action medical institute new delhi, India |
| 2301 | Fibrosis-4(FIB-4) Index is Associated with Mortality and Nonfatal Cardiovascular Events in End-Stage Kidney Disease Patients Starting Maintenance Dialysis | Yeon Hee Lee The Catholic University of Korea, Inche St. Mary's Hospital, Korea |
| 2302 | Body fat mass plays a important role in over- or underestimation of bioimpedance spectroscopy-baseddry weight for the patients with hemodialysis | Hae Ri Kim Chungnam National University Sejong Hospital, Korea |

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| Abstract No. | Title | Presenting Author |
| 2306 | Circulating vascular adhesion protein-1 level predicts risk of cardiovascular events and mortality in hemodialysis patients | Dae Kyu Kim Kyung Hee University Medical Center, Korea |
| 2314 | Effect of cilostazol on arteriovenous fistula in hemodialysis patients | Jae Wan Jeon Chungnam National University Sejong Hospital, Korea |
| 2315 | Catheter tips in the mid right atrium are associated with increased dialysis adequacy | Haeun Lee The Catholic University of Korea, Seoul St. Mary's Hospital, Korea |
| 2326 | Diagnostic Accuracy of Rapid Antibody Testing in Hemodialysis Patients | Rommel Bataclan University of the East Ramon Magsaysay Medical Center, Philippines |
| 2330 | ACUTE KIDNEY INJURY (AKI), NLR (NEUTROPHIL LYMPHOCYTE RATIO), AND DURATION OF HOSPITALIZATIION, IN COVID-19 PATIENTS WITH MORTALITY OUTCOME IN dr. SARDJITO GENERAL HOSPITAL, YOGYAKARTA | Wahju Pramono Dr. Sardjito Hospital, Faculty of Medicine, Public Health, and Nursing, Gadjah Mada University, Yogyakarta, Indonesia |
| 2366 | Correlation Between Serum Indoxyl Sulfate Level and Arterial Stiffness in Chronic Hemodialysis Patients: A Preliminary Study | Tities Indra University of Indonesia, Indonesia |
| 2409 | Cause specific death differs based on HbA1c levels in hemodialysis patient with diabetes | Dae Kyu Kim Kyung Hee University Medical Center, Korea |
| 2423 | The Role of Cytokine in Critically III Patients with Septic Acute Kidney Injury | Sojung Youn The Catholic University of Korea, Seoul St. Mary's Hospital, Korea |
| 2425 | Identifying the nutrition-related factors associated with fatigue on MHD Patients: A Cross-sectional study at Sleman Regional Hospital, Indonesia | Susetyowati Susetyowati University Gadjah Mada, Indonesia |
| 2430 | Serum neutrophil to lymphocyte ratio predicts risk of cardiac event in hemodialysis patients | JongHo Kim Kyung Hee University Medical Center, Korea |
| 2431 | The Association among carotid IMT, PWV and vascular access failure in hemodialysis patients | Seok-hyung Kim Chuncheon Sacred Heart Hospital, Korea |
| 2443 | Dialysis SBP is an important BP control marker in hemodialysis; a study of after-dialysis ABPM | Soon Kil Kwon Chungbuk National University, Korea |
| 2444 | Association of hyponatremia and low bone density in hemodialysis patients | Younghoon Song Korea University Guro Hospital, Korea |

| Abstract No. | Title | Presenting Author |
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| 2455 | Association serum calcium-to-magnesium ratio with coronary artery disease and cerebral vascular complications in dialysis patients: From ORCHESTRA Data | Su A Lee Eulji University, Korea |
| 2457 | Risk factors for low bone mineral density (BMD) in dialysis patients according to T- or Z-score measured by dual-energy X-ray absorptiometry (DXA) | Jeong Ah Hwang Korea University Guro Hospital, Korea |
| 2462 | Clinical characteristics of low turnover bone disease in Korean dialysis patients; a multicenter prospective cohort study | Jaeun Shin Korea University Guro Hospital, Korea |
| 2479 | A year of COVID-19: Ergonomics and good practise of management at INRCA dialysis unit in Ancona, Italy | Simona Cinaglia The National Institute for the Care of the Elderly (INRCA), Italy |
| 2486 | Comparison of intradialytic blood pressure metrics as a standard indicator of intradialytic hypotension based on all-cause mortality prediction | Ka Young Kim Korea University Guro Hospital, Korea |
| 2489 | Effect of Art Therapy Intervention during Hemodialysis (HD) Session on Depression and Quality of Life Scores and the Patients' Perception of Dialysis Process | Ji Hyun Lee Ewha Womans University Medical Cente Korea |
| 2495 | Predictive value of abdominal aortic calcification score in dialysis CKD patients for major adverse cardiac and cerebrovascular events (MACCE) | Suyeon Hong The Catholic University of Korea, Seoul S Mary's Hospital, Korea |
| 2510 | Prevalence of SARS-CoV-2 antibodies in hemodialysis patients in Senegal: a multicenter cross-sectional study. | Sidy Seck Faculty of Health Sciences/University Gaston Berger, Senegal |
| 2513 | Psycho-social impact of COVID-19 pandemic among Senegalese hemodialysis patients | Sidy Seck Faculty of Health Sciences/University Gaston Berger, Senegal |
| 2529 | Clinical risk factors of vascular calcification in Korean dialysis patients | Shin Young Ahn Korea University Guro Hospital |
| 2530 | Clinical implication of magnesium in dialysis patients | Shin Young Ahn Korea University Guro Hospital |
| 2543 | Influences of ChAdOx1 nCov-19 (AstraZeneca) vaccination on platelet and coagulation factors in hemodialysis patients | Dongyeon Lee Asan Medical Center, University of Ulsan Korea |
| 2545 | Muscle Mass Is A Major Prognostic Factor For Survival In Patients Starting Maintenance Hemodialysis | Eu Jin Lee Chungnam National University Hospital, Korea |
| 2552 | Associations between the Fatigue and Physical function in Hemodialysis patients | Vifay Samuel Raj V J S S College of Physiotherapy and JSS hospital, Mysore, India |

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| Abstract No | . Title | Presenting Author |
| 2553 | The comparison of vancomycin removal between medium cut-off (Theranova®) and high-flux dialyzer | Hea Ran Lee Asan Medical Center, University of Ulsan, Korea |
| 2574 | Serum albumin is more predictive marker to predict all-cause mortality in elderly HD patients than in younger HD patients | Yungi Jeon Kyung Hee University Hospital at Gangdong, Korea |
| 2585 | Effects of probiotics, prebiotics, and synbiotics on hemodialysis patients | Hyeongwan Kim Chonbuk National University Hospital, Korea |
| 2595 | HOLLOW FIBER SEPARATION MEMBRANES FOR HEMODIALISIS | Andi Nursanti Bogor Agricultural University, Indonesia |
| 2600 | Study of serum $\beta2$ microglobulin in hemodialysis patients | Khurtsbayar Damdinsuren First Central Hospital of Mongolia, Mongolia |
| 2610 | Correlation between urea reduction ratio and phosphate removal during hemodialysis | Maryam Begum Combined military hospital Peshawar, Pakistan |

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| Abstract No. | Title | Presenting Author |
| 2027 | Confirming Genetic abnormalities of hypokalemic periodic paralysis using next-generation sequencing | Hae Ri Kim Chungnam National University Sejong Hospital, Korea |
| 2056 | Explainable prediction of overcorrection in severe hyponatremia: a post- hoc analysis of the SALSA trial | Huijin Yang Hallym University Dongtan Sacred Heart Hospital, Korea |
| 2321 | The Incidence of Hyponatremia and value as Risk factors in Alcoholic liver disease | Jung Yoon Choi Gyeongsang National University Changwon Hospital, Korea |
| 2346 | Fabry disease mouse is resistant to high-salt diet-induced hypertension probably via dysfunctional aquaporin 2 | Sungjin Chung The Catholic University, Korea |
| 2411 | Analysis of glomerular filtration rate and AQP2 expression in male and female mice and high fat diet-fed mice. | Gwan Beom Lee Kyungpook National University, Korea |

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| 1009 | Clinical and histopathological pattern of glomerular disease diagnosed by kidney biopsy: A single-center experience | Seunghye Lee Gyeongsang National University Hospital, Korea |
| 2031 | The effect of statins on all-cause and cardiovascular mortality in patients with non-dialysis chronic kidney disease, patients on dialysis, and kidney transplanted recipients: an umbrella review of meta-analyses | Yoo Jin Kim Wonju Severance Christian Hospital, Korea |
| 2036 | Remission of hematuria is associated with favorable prognosis in IgA nephropathy | Kyung Ho Lee Soonchunhyang University Bucheon Hospital, Korea |
| 2046 | The proportion of unaffected glomeruli is a robust prognostic factor of kidney outcome in patients with ANCA-associated glomerulonephritis | Hyun Suk Lee Samsung Medical Center, Korea |
| 2048 | Clinical features and outcomes of elderly patients with antineutrophil cytoplasmic antibody-positive vasculitis: report from a single-center retrospective study | Hyo Jin Kim Pusan National University Hospital, Korea |
| 2069 | A Rare Case of Thrombotic Thrombocytopenic Purpura with Normal ADAMTS13 Activity Accompanied by Multiple Brain Infarction and Left Ventricle Thrombus | Eun Ji Kim The Catholic University of Korea, Uijeongbu St. Mary's Hospital, Korea |
| 2072 | Clinical significance of circulating microRNA-21 in patients with IgA nephropathy | In O Sun Presbyterian Medical Center, Korea |
| 2076 | Renal Outcomes of IgM Nephropathy: A Comparative Prospective Cohort Study | Yura Chae The Catholic University of Korea, Senegal |
| 2085 | A novel approach in defining and predicting steroid resistance in nephrotic syndrome in children | levgeniia Burlaka Bogomolets National Medical University, Ukraine |
| 2096 | The comparison of C3 glomerulonephritis with Non-C3 glomerulonephritis in Primary glomerulonephritis | Ji Won Ryu Seoul National University Bundang Hospital, Korea |
| 2097 | More Severe Mitochondrial Injury at The Time of Diagnosis is Associated with Poor Prognosis in Minimal Change Disease | Young Seung Oh Soonchunhyang University Bucheon Hospital, Korea |
| 2104 | Effect of indoxyl sulfate on endoplasmic reticulum stress in human astrocytes | Hyo-Wook Gil Soonchunhyang University Cheonan Hospital, Korea |

| Abstract No. | Title | Presenting Author |
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| 2133 | Using Google Trends Data to Study Public Interest in Chronic Kidney Disease (CKD) in Indonesia | Rizki Febriawan Utama Hospital Belitung, Indonesia |
| 2134 | Transglutaminase 2 blockade ameliorates CKD progression | Jong Joo Moon Seoul National University Biomedical Research Institute, Seoul, Korea |
| 2146 | Comparison of metabolic profiling according to physiological and fibrotic stress between podocyte and tubular cell | Hyuk Huh Seoul National University Hospital, Kore |
| 2155 | Urinary findings does not reflect kidney status in IgAnephropathy after steroid therapy | Won Hee Cho Sahmyook Medical Center, Korea |
| 2163 | Plasminogen Activator Urokinase Receptor and Cardiotrophin-Like Cytokine Factor 1 in serum of patients with nephrotic Syndrome | Natalia Chebotareva Sechenov University, Russia |
| 2169 | Clnicopathological characteristics and outcome of crescentic glomerulonephritis: A single centre study | Manzoor Parry Sher i kashmir institute of medical sciences, India |
| 2171 | Bevacizumab-induced glomerular microangiopathy: experience of two clinical cases | Wanhee Lee Pusan National University Hospital, Koro |
| 2177 | The balance of proinflammatory cytokines and Treg cells in chronic glomerulonephritis | Natalia Chebotareva Sechenov University, Russia |
| 2197 | Fisetin protects against renal fibrosis in murine unilateral ureteral obstruction | Ha Young Ju Pukyong national university, Korea |
| 2203 | Clinical characteristics of childhood onset immune complex-mediated MPGN and complement-mediated C3 glomerulopathy | Jiwon Jung Asan Medical Center, University of Ulsa Korea |
| 2227 | Aspects of anemia in Sri Lankan CKDu cohort | Swmpwcib Weerakoon National Hospital, Kandy, Sri Lanka |
| 2231 | Prediction of bleeding complication after percutaneous renal biopsy | Jangwook Lee Dongguk University Ilsan Hospital, Kore |
| 2242 | Immunoglobulin A Nephropathy in a patient with Neurofibromatosis Type 1 | Harin Rhee Pusan National University Hospital, Kor |
| 2246 | A multicenter, randomized, open-label, comparative, phase IV study to evaluate the efficacy and safety of a combination treatment of mycophenolate mofetil and corticosteroid in advanced IgA nephropathy | Chan-Young Jung Severance Hospital, Korea |

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| 2250 | PTEN-induced kinase 1 has association with renal aging in the context of inflammatory response | Jung Sang Hyun Bundang CHA General Hospital, Korea |
| 2253 | Comparison of Renal Outcomes after induction treatment between Segmental and Global Subclasses of Class IV Lupus Nephritis; CMC GN registry | Dowhee Hwang The Catholic University of Korea, St. Vincent's Hospital, Korea |
| 2264 | Proximal tubule specific Sirt6 has protective roles in UUO-induced renal tubulointerstitial fibrosis. | Kyung Pyo Kang Chonbuk National University Hospital, Korea |
| 2269 | DIZE (Diminazene aceturate) exacerbates renal fibrosis after unilateral ureteral obstruction in mice | Yosep Kim Pukyong National University, Korea |
| 2283 | The circulating extracellular vesicle microRNAs related to clinical remission in patients with idiopathic membranous nephropathy | In O Sun Presbyterian Medical Center, Korea |
| 2303 | The potential roles of NAD(P)H:quinone oxidoreductase 1 in the development of diabetic nephropathy and actin polymerization | Dae Eun Choi Chungnam National University Hospital, Korea |
| 2305 | Clinical characteristics of adult focal segmental glomerulonephritis according to the classification of 2020 KDIGO guideline | Eunjeong Kang Ewha Womans University Medical Cento Korea |
| 2309 | Effect of immunosuppressive agents on clinical outcomes in idiopathic membranous nephropathy | Ji-Young Choi Kyungpook National University Chilgok Hospital, Korea |
| 2310 | Class I HDAC participates in renal interstitial fibrosis in uric acid nephropathy by regulating TGF- β /Smad signaling pathway | Ziyang Jing Hainan General Hospial, China |
| 2312 | An Unusual Report of Thrombotic Thrombocytopenic Purpura after BNT162b2 COVID-19 Vaccination | Eun Ji Kim The Catholic University of Korea, Uijeongbu St. Mary's Hospital, Korea |
| 2334 | SARS-CoV-2 Infection and It's Association With Anti-Glomerular Basement Disease: A Case Series | Rakesh Sebastin Government Rajaji Hospital, Madurai Medical College, Tamilnadu, India |
| 2354 | Angiotensin II induces oxidative podocyte injury via the upregulation of Nox4 | Tae-Sun Ha Chungbuk National University, Korea |
| 2373 | Mitochondrial Dysfunction in Podocytes Caused by CRIF1 Deficiency Leads to Progressive Albuminuria and Glomerular Sclerosis in Mice | Jin Young Jeong Chungnam National University, Korea |
| 2374 | The optimal equation of estimated glomerular filtration rates for pediatric chronic kidney disease patients in transition from adolescent to adult: results from KNOW-PedCKD | Seon Hee Lim Uijeongbu Eulji Medical Center, Korea |

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| 2392 | Visceral Fat increased the Risk of Progression to Chronic Kidney Disease in Non-Obese Korean Adults. | Dana Choi Seoul National University, Korea |
| 2441 | Rho kinase signal pathway participates in the tubular mitochondrial oxidative injury and apoptosis via regulating mitochondrial dyneins/biogenic genes in uric acid nephropathys | Maowei Xie Hainan General Hospital, China |
| 2446 | Long noncoding RNA FGD5-AS1 sponges microRNA-497-5p to regulate hyperuricaemia-induced renal interstitial fibrosis in a rat model involving LIM domain only 7 | Jiali Wei Hainan General Hospital, China |
| 2460 | Clinical features and outcomes of Immunoglobulin G4-related Disease including Immunoglobulin G4-related kidney disease | Su A Lee Eulji University, Korea |
| 2488 | Hypertriglyceridemia is related to glomerulosclerosis in IgA Nephropathy | Wonjung Choi The Catholic University of Korea, Daejeon St. Mary's Hospital, Korea |
| 2504 | A multicenter retrospective study of clinical outcomes, treatment and prognosis of glomerulonephritis in elderly patients | Myungah Ha The Catholic University of Korea, Bucheor St. Mary's Hospital, Korea |
| 2539 | Genetic analysis of steroid resistant nephrotic syndrome in eastern India – A single center prospective study. | Prit Pal Singh Indira Gandhi Institute of Medical Sciences, India |
| 2547 | Ezetimibe ameliorates renal fibrosis via Nrf2-related pathway | Beom Jin Lim Gangnam Severance Hospital, Korea |
| 2560 | Comparison of mycophenolate mofetil with intravenous cyclophosphamide for induction therapy of lupus nephritis; CMC GN registry | Sungjoon Hwang The Catholic University of Korea, St. Vincent's Hospital, Korea |
| 2562 | Clinical predictors for treatment response in patients with biopsy-proven Lupus nephritis; CMC GN registry. | Young Dong Jeon The Catholic University of Korea, St. Vincent's Hospital, Korea |
| 2579 | The difference of Cystatin C- and Creatinine-based estimated GFR may differently affect the risk of all-cause mortality according to renal function. | Park Hae Sang Korea University Guro Hospital, Korea |
| 2582 | The oxidative phosphorylation inhibitor IM156 suppresses B cell activation by regulating mitochondrial membrane potential and contributes to the mitigation of systemic lupus erythematosus | Joo Sung Shim Yonsei University, Korea |
| 2584 | Inhibition of STAT3 signaling mitigates inflammation of experimental proliferative glomerulonephritis | Jae Yoon Park Dongguk University Ilsan Hospital, Korea |
| 2598 | Comparison Between Distal Diuretics and Dietary Sodium Restriction for Hypertension in Chronic Kidney Disease : A Systemic Review | Shinta Retno Wulandari Sebelas Maret University, Indonesia |

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| ADSH 001 140. | Huo | 1 1030Hully Addition |
| | | Dinesh Kumar Patel |
| 1022 | Biological potential and therapeutic benefit of tricetin on atherosclerosis: | Sam Higginbottom University of |
| | Role of scientific data analysis in the medicine | Agriculture, Technology and Sciences, India |
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| 2161 | Brachial-ankle pulse wave velocity can be a predictor of the risk of renal | Yoo Dong Kyun |
| 2101 | outcome and mortality | Seoul Veterans Hospital, Korea |
| | Anti-atherosclerosis and anti-inflammatory effects of Madhuca longifolia | Sumit Rajput |
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| | A Rare Case of Fibromuscular Dysplasia with Postpartum Renal Artery | Eun-Eun Kim |
| 2232 | Rupture in a Woman Without Past History of Hypertension | The Catholic University of Korea, |
| | | Uijeongbu St. Mary's Hospital, Korea |
| | Effects of Uremic Serum on Endothelial Cell Damage is Mediated by | Jwa-Kyung Kim |
| 2240 | Excessive Neutrophil Extracellular Trap Formation | Hallym University Sacred Heart Hospit |
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| | Angiotensin Receptor-Neprilysin Inhibitor versus Renin-Angiotensin- | E II 1 B 1 |
| 2284 | Aldosterone System Inhibitors in patients with Advanced Chronic Kidney | Jin Hyuk Paek Keimyung University, Korea |
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| | The comparison of risk factors for coronary artery calcification and | Sunghoon Jung |
| 2349 | abdominal aortic calcification in CKD: from the KNOW-CKD study | Kangbuk Samsung Hospital, Korea |
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| 2448 | Protective effects of White tea (Camellia sinensis) on metabolic functions | Rahul Kumar |
| | and oxidative stress in rat model | J K College, India |
| 2454 | DI DI IN CHES IN THE | Eun JI Yang |
| 2451 | Pulse Pressure and the Risk of Renal Hyperfiltration in Young Adults | Gangnam Severance Hospital, Korea |
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| 2476 | EDUCATIONAL PROGRAM AND ITS RISK FACTORS FOR PREVALENCE OF | Anna Farhana |
| | HYPERTENSION AMONG CHILDREN IN INDONESIA | Universitas Gadjah Mada, Indonesia |
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| | Cardiometabolic Syndrome Prevention: The Role of Dietary Approaches to | Devi Yulia Rahmi |
| 2586 | Stop Hypertension (DASH), Reduced Salt Intake, and Physician Advice as a Lifestyle Change on Hypertension Patients in Adult | Andalas University, Indonesia |

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|--------------|---|--|
| 2035 | Delayed the ESRD progression by transplanting 3D printed omental patch | Jina Ryu Rokit Healthcare, Korea |
| 2067 | The Impact of Intra-patient Tacrolimus Trough Level Variability Over 2 Years Post-Transplant on the Long-Term Allograft Outcomes in Kidney Transplant Recipients | Yohan Park Konyang University Hospital, Korea |
| 2079 | Incident fractures in kidney transplant recipients: A nationwide cohort study | Da Won Kim The Catholic University of Korea, Incheor St. Mary's Hospital, Korea |
| 2088 | Expansion and Characterization of Regulatory T cell Populations from Korean Kidney Transplant Recipients | Jinhyuk Baek Keimyung University Dongsan Medical Center, Korea |
| 2091 | Effect of sphingosin-1-phosphate lyase inhibitor on skin allograft and transplant rejection avatar model | Sun Woo Lim The Catholic University of Korea, Seoul S Mary's Hospital, Korea |
| 2094 | Association between early post-transplant hypertension or related antihypertensive use and prognosis of kidney transplant recipients: a nationwide observational study | Sehoon Park Korean Armed Forces Capital Hospital, Korea |
| 2116 | Post-Transplant Allograft Outcomes according to Mismatch between Donor Kidney Volume and Body Size of Recipients with Pre-Transplant Diabetes Mellitus | Yohan Park Konyang University Hospital, Korea |
| 2126 | Perioperative day to day glucose variability and post-transplant diabetes mellitus in non-diabetic kidney transplantation patients | Ji Hye Kim Yonsei University, Korea |
| 2151 | Clinical Significance of Vitamin D level on Preexisting and Post-transplant Diabetes Mellitus for 6 Years After Kidney Transplantation: KoreaN Cohort Study for Outcome in Patients With Kidney Transplantation (KNOW-KT) | Woo-yeong Park Keimyung University Dongsan Hospital, Korea |
| 2217 | Comparison of the efficacy and safety between anti-thymocyte globulin versus basiliximab in deceased donor kidney transplantation: A multicenter cohort | Suyeon Hong The Catholic University of Korea, Seoul St Mary's Hospital, Korea |
| 2222 | Outcomes of Live Donor Kidney Transplantation: A Single Center Experience in Mongolia | Saruultuvshin Adiya First Central Hospital of Mongolia, Mongolia |

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| 2229 | Increased macrophage activation marker soluble CD163 is associated with graft dysfunction and metabolic derangements in renal transplant recipients | Hayam El Aggan Faculty of Medicine, Alexandria University Egypt |
| 2236 | Clinical significance of soluble ST2 for the evaluation of volume status in kidney transplant recipients | Woo-yeong Park Keimyung University Dongsan Hospital, Korea |
| 2279 | Association of Vascular Endothelial Growth Factor gene polymorphism with Allograft Survival in Renal Transplant Recipients | Narayan Prasad Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India |
| 2289 | Phosphodiesterase-5/5-HT2B dual inhibitors abrogate completely fibrotic potential of human renal fibroblasts isolated from renal allograft rejection patients | Akhilesh Jaiswal Sanjay Gandhi Post Graduate Institute of Medical Sciences, India |
| 2311 | Opening a Pandora's box | Shiva Kumar Ammayappan Madurai medical college, India |
| 2327 | Case Report : Post Transplant Erythrocytosis (PTE) | Stefany Adi Wahyuningrum Sanglah hospital, Udayana university, Indonesia |
| 2383 | Comparison of the Impact between Peak MFI versus Sum of MFI Value of Donor Specific Anti-HLA Antibody on the Post-transplant Clinical Outcomes | Hyung Duk Kim The Catholic University of Korea, Seoul St Mary's Hospital, Korea |
| 2385 | Changing Patterns of T Lymphocyte Subsets after Kidney Transplantation according to Induction Immunosuppressant: Single Center Prospective Observational Study | Hyung Duk Kim The Catholic University of Korea, Seoul St Mary's Hospital, Korea |
| 2424 | Modifiable risk factors for new-onset hypertension after live kidney donation | Yaerim Kim Keimyung University, Korea |
| 2456 | Renal & Obstetric outcomes of kidney transplantation recipients Versus CKD stage 4, 5 patients | Suyeon Hong The Catholic University of Korea, Seoul St Mary's Hospital, Korea |
| 2470 | Low early post-transplant tacrolimus level within 1 month is associated with poor renal allograft survival in kidney transplant patients | Jung Hwa Ryu Ewha Womans University, Korea |
| 2483 | Changes in physical, emotional, and socioeconomic status in living kidney donors | Yaerim Kim Keimyung University School, Korea |

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| 2492 | Hemorrhagic cholecystitis with hemobilia during oral edoxaban therapy in a patient with kidney transplant | Tae Hyun Ryu Bong Seng Memorial Hospital, Korea |
| 2521 | Association of Pre-Kidney Donation Diastolic Hypertension with Early and Late Kidney Allograft Function: Time-Dependent Effect Analysis | Ekamol Tantisattamo University of California Irvine, United States |
| 2548 | Parathyroidectomy versus cinacalcet in the treatment of tertiary hyperparathyroidism after kidney transplantation – retrospective study | Suyun Jung Asan Medical Center, University of Ulsan, Korea |
| 2577 | EVALUATING ALLOGRAFT RENAL FUNCTION BY CYSTATIN C ESTIMATED GLOMERULAR FILTRATION RATE EQUATIONS | Thanh-Tam Tran-Thai Can Tho University of Medicine and Pharmacy, Vietnam |
| 2587 | Analysis of 300 ABO incompatible kidney transplantations in a single center | Eun Jeong Ko The Catholic University of Korea, Seoul St Mary's Hospital, Korea |
| 2596 | Light chain deposition disease in kidney transplant patient | Byung Chul Shin Chosun University Hospital, Korea |
| 2599 | The Efforts of Health Workers on Kidney Transplantation Patients During The Covid-19 Pandemic: Literature Review | Putri Ayu Andalas University, Indonesia |

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| 2045 | Interaction of high sodium intake and central obesity on albuminuria in general population | Susie Hong Hanyang University Medical Center, Kore |
| 2061 | Indoxyl sulfate is more inportant predictor for sarcopenia than myostatin in patients with chronic kidney disease: post-hoc analysis from RECOVERY study | Hyo Jeong Park Dong-A University Hospital, Korea |
| 2062 | Kidney Injury Risk and Elevated Blood Pressure in Young Adults | Songuk Yoon Gangnam Severance Hospital, Korea |
| 2077 | Urine potassium excretion, blood pressure variability, and cardiovascular outcomes in CKD | Sang Heon Suh Chonnam National University Hospital, Korea |
| 2098 | Effects of Air Pollutants on Mortality of Patients with Chronic Kidney Disease Living in Green Spaces in Seoul, Korea: A Large Observational Study | Jiyung Jung Dongguk University Ilsan Hospital, Korea |
| 2110 | The association between metabolic acidosis and bone mineral density in pre-dialysis chronic kidney disease: results from the KNOW-CKD cohort | Eunjeong Kang Ewha Womans University Medical Cente Korea |
| 2114 | Relationship between cholesterol intake and development of chronic kidney disease: a community-based prospective cohort study | Joonbyung Park Soonchunhyang University Seoul Hospit Mongolia |
| 2118 | Association between body mass index and hemoglobin level with disease severity of chronic kidney disease undetermined etiology in Sri Lanka | HG Naduni Erandika Centre for Research, Sri Lanka |
| 2141 | Late stage 3 chronic kidney disease is an independent risk factor for sarcopenia, but not proteinuria | Jung Nam An Hallym University Sacred Heart Hospital Korea |
| 2142 | Serum cystatin C to creatinine ratio is a potential biomarker for sarcopenia in patients with non-dialysis-dependent chronic kidney disease | Jung Nam An Hallym University Sacred Heart Hospital Korea |
| 2145 | Low magnesium is associated with a weak bone strength in pre-dialysis CKD patients: Results from the KNOW-CKD study | Minjung Kang Seoul National University Hospital, Kore |
| 2152 | Liver fibrosis assessed by transient elastography is associated with chronic kidney disease and diabetes | Nam Ju Heo Seoul National University Hospital, Kore |
| 2160 | Effect of Pitavastatin on Erythrocyte Membrane Fatty Acid Contents and HbA1C in Patients with Chronic Kidney Disease | Minju Kim Dong-A University Hospital, Korea |
| 2174 | Comparison of incidence of acute kidney injury, chronic kidney disease and end-stage renal disease between atrial fibrillation and atrial flutter: real-world evidences from a propensity score-matched national cohort analysis | Wei Syun Hu China Medical University Hospital, Taiw. |

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| 2178 | Temporal changes of cellular senescence in post-acute kidney following ischemia-reperfusion | Seo Rin Kim Pusan National University Yangsan Hospital, Korea |
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| 2196 | Effect of orthostatic hypotension on kidney function | Jin Hee Na Samsung Changwon Hospital, Korea |
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| 2265 | Association between frailty, cognitive impairment, and nutrition in chronic kidney disease | Seongmin Kim Gyeongsang National University Changwon Hospital, Korea |
| 2276 | The association between residential greenness and mortality of CKD patients: evaluating mediation effects of air pollution | Jiyung Jung Dongguk University Ilsan Hospital, Koro |
| 2319 | Soluble transferrin receptor can predict all-cause mortality regardless of anemia and iron storage: Results from the National Health and Nutrition Examination Survey, 2003 to 2010 | Minjung Kang Seoul National University Hospital, Kor |
| 2323 | Albuminuria within the normal range can predict all-cause mortality and cardiovascular mortality: Results from the National Health and Nutrition Examination Survey, 1999 to 2016 | Minjung Kang Seoul National University Hospital, Kor |
| 2338 | The increased urine levels of growth differentiation factor15 in Korean patients with diabetic chronic kidney disease | Won Kim Chonbuk National University, Korea |

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| 2351 | Baseline renal function and the decline of health-related quality of life in chronic kidney disease: form the KNOW-CKD study | Sang-Eun Kim Kangbuk Samsung Hospital, Korea |
| 2379 | Association with albuminuria and periodontitis and its effects on mortality | Mi Yeun Han Hangang Sacred Heart Hospital, Korea |
| 2381 | Association factors with Gait speed in predialysis chronic kidney disease patients: Result from RECOVERY study | Mi Yeun Han Hangang Sacred Heart Hospital, Korea |
| 2402 | Small changes in eGFR are associated with different patterns of 24-h ambulatory blood pressure monitoring in general population | Sang Gon Yoon Inje University Ilsan Paik Hospital, Kore |
| 2406 | Potential biomarkers of vascular calcification in ferroptosis-related chronic kidney disease | Yun Tang University of Electronic Science and Technology of China, China |
| 2427 | Impact of dietary beta-carotene on all-cause mortality according to the different clinical condition including decreased kidney function | Yaerim Kim Keimyung University, Korea |
| 2447 | Protective Effect of Heparan Sulphate Derivative against Glycocalyx Damage-induced Renal Fibrosis in Aging Mice | Tae Hyun Ban The Catholic University of Korea, Eunpyeong St. Mary's Hospital, Korea |
| 2499 | The predictability of foamy urine to proteinuria; and its long-term observation | Woojin Jang Seoul Veterans Hospital, Korea |
| 2551 | Long-term protective effect of Fimasartan and Losartan in patients with hypertensive diabetic chronic kidney disease: A multi-center, open, retrospective observational study | Hyo Jeong Kim Severance Hospital, Korea |
| 2555 | Health-enhancing physical activity improves the quality of life in non- dialysis-chronic kidney disease patient from KNOW-CKD study | Tae Ryom Oh Chonnam National University Hospital, Korea |
| 2556 | The association between serum osteoprotegerin and renal prognosis in non-dialytic chronic kidney disease from the KNOW-CKD Study | Tae Ryom Oh Chonnam National University Hospital, Korea |
| 2558 | Utility of whole exome sequencing in evaluation of genetic causes of adult chronic kidney disease of unknown origin | Ji Hye Kim Seoul National University Hospital, Kore |
| 2572 | Presence of chronic kidney disease affects severe clinical outcome in the hospitalized patients with COVID-19 infection | Hayne Cho Park Kangnam Sacred Heart Hospital, Korea |
| 2573 | Effect of Renamezin® upon attenuation of renal function decline in pre-dialysis chronic kidney disease patients: 24-week prospective observational cohort study | Hayne Cho Park Kangnam Sacred Heart Hospital, Korea |

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| 1006 | The Role of Transient Potassium Channels in Ureter Smooth Muscle Action Potential and excitability: A Computational Study | Chitaranjan Mahapatra University of California San Francisco, United States | | |
| 1008 | CKD Prevalence in Sulawesi Island, Indonesia: Basic Health Research (2013-2018) | Destriyani Destriyani Pambusuang primary health center, Polewali Mandar, West Sulawesi, Indonesia, Indonesia | | |
| 2063 | Association between behavior patterns and mortality among US adults: National Health and Nutrition Examination Survey, 2007–2014 | Yuna Chung Dongguk University Ilsan Hospital, Korea | | |
| 2093 | Fracture Site and Incidence According to Kidney Replacement Therapy | Inwhee Park Ajou University, Korea | | |
| 2108 | Transient trace dip-stick albuminuria is associated with all-cause death, cardiovascular death, and incident chronic kidney disease | Samel Park Soonchunhyang University Cheonan Hospital, Korea | | |
| 2139 | The association of sodium intake and albuminuria according to cotinine- verified smoking status: Korean National Health Examination Survey (KoNHES) | Young-Bin Son Korea University Anam Hospital, Korea | | |
| 2175 | Comparison of CHA2DS2-VASc and C2HEST scores for predicting the incidence of atrial fibrillation among patients with end-stage renal disease | Wei Syun Hu China Medical University Hospital, Taiwar | | |
| 2275 | Effects of Air Pollution on Mortality of Patients with Chronic Kidney Disease in Seoul, Korea: A Large Observational Cohort Study | Jiyung Jung Dongguk University Ilsan Hospital, Korea | | |
| 2365 | Mental illness in patients with end-stage kidney disease in South Korea: a nationwide cohort study | Min-Jeong Lee Ajou University, Korea | | |
| 2370 | Appropriate physical activity protects renal function decline and increases survival rate in the elderly population: A nationwide analysis of the National Health Insurance Service Senior Cohort | Hyunsuk Kim Chuncheon Sacred Heart Hospital, Korea | | |
| 2376 | Cumulative exposure of metabolic syndrome components and the risk of end-stage renal disease in the general population: a nationwide cohort study | Eunsil Koh The Catholic University of Korea, Yeouido St. Mary's Hospital, Korea | | |
| 2377 | Underweight and the risk of end-stage renal disease in the general population: a nationwide cohort study | Eunsil Koh The Catholic University of Korea, Yeouido St. Mary's Hospital, Korea | | |

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| 2420 | Achievement of blood pressure target and risk of MACCE in patients with metabolic syndrome | Ji Min Lim Keimyung University Dongsan Medical Center, Korea | | |
| 2434 | Impact of blood pressure control on the development of ESKD in according to the presence of metabolic syndrome | Jungheon Kwon Keimyung University Dongsan Medical Center, Korea | | |
| 2536 | Use of Deep Learning to Predict Acute Kidney Injury after Intravenous Contrast Media Administration | Donghwan Yun Seoul National University Hospital, India | | |
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| 2057 | Renal sinus and abdominal periaortic fat attenuation indices measured on computed tomography are associated with metabolic syndrome | Nayoung Song Soonchunhyang University Seoul Hospital, Korea | |
| 2324 | Myostatin/appendicular skeletal muscle mass(ASM) ratio, not myostatin, may be a marker of low handgrip strength in the community dwelling older women | Soo Jeong Choi Soonchunhyang University Bucheon Hospital, Korea | |

| Others | | | | |
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| Abstract No. | Title | Presenting Author | | |
| 2021 | Biological importance and therapeutic benefit of sciadopitysin on osteoclastogenesis: Therapeutic role in the medicine | Dinesh Kumar Patel Sam Higginbottom University of Agriculture, Technology and Sciences, India | | |
| 2140 | Impact of Covid-19 pandemic in the critically ill patients without Covid-19 infection | Harin Rhee Pusan National University Hospital, Korea | | |
| 2277 | Effects of air pollution on body composition in Korea | Jiyung Jung Dongguk University Ilsan Hospital, Korea | | |
| 2534 | Technology and medical care in India: Growth of telehealth awareness during the COVID-19 pandemic | Arunkumar Subbiah AlIMS, New Delhi, India | | |
| 2570 | Anti-inflammatory effects of liraglutide by ectodomain shedding of RAGE in human aortic endothelial cells | Chung Hee Baek Asan Medical Center, University of Ulsan, Korea | | |



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- 2. 2019 3Q MAT, IQVIA DATA 기준(국내 고칼륨혈증 치료제 판매량)

카리메트 산/과립

(교육·호교) 고킬륨함증 [용법·용량] 1, 경구투여 성인: 폴리스티렌설폰산칼슘으로서 1월 15~30g을 1~3회로 분활하고 1회원을 물 30~50mL에 현탁하여 경구투여한다. 2, 직정투여 성인: 1회 30g(산) 또는 30.15g(괴림)을 물 또는 2% 메틸셀룰로으스용액 100mL에 한탁하여 직장에 투여한다. 한탁액을 제온정도로 가온하고 30분~서신간 정관내 방치한다. 역이 누출되는 경우에는 베개로 분부를 올려주거나 잠시용한 슬류위 사이를 접어준다. 활 또는 2% 메틸셀룰로으스 대신 5% 포도당용액을 사용할 수 있다. 연령, 중성에 따라 직접히 중감한다. [사용상의 주의사항] 1. 다음 환자에는 투여하지말 것 : 1) 고칼슘월증 환자 2) 부간성선가능항진증 환자 (이온교환으로 협중칼슘농도가 성승할 수 있다.) 의 다발성 골수중 환자 (이온교환으로 협중칼슘농도가 성승할 수 있다.) 의 다발성 골수중 환자 (이온교환으로 협중칼슘농도가 성승할 수 있다.) 의 다발성 골수중 환자 (이온교환으로 협중칼슘농도가 성승할 수 있다.) 의 사용고 10분을 골수를 환자 (이온교환으로 협중칼슘농도가 성승할 수 있다.) 의 사용고 10분을 골수를 환자 (이온교환으로 협중칼슘농도가 성승할 수 있다.) 의 사용고 10분을 골수를 존한하는 전상을 제공한 경우를 보고 10분을 보고 10분을 기하는 10분을 기수 등이 나 역을 무여로 소화관 운동이 자하면 신성와 (직공투여에 함함) 2, 이상원은 3. 이 약에 대한 암상시회은 및 10분이 10분을 기수 등이 나 보고 10분을 단위] 100**포 [저장방법 및 사용기간]** · 기밀용기, 실온(1~30°C)보관 · 사용기간: 산제/제조일로부터 60개월(5년), 괴립제/제조일로부터 36개월(3년)

카리메트 현탁액

[효능·효과] 고칼륨철증 [용법·용량] 성인: 1일 3~6포폴리스티렌설폰산칼슘으로서 15~30g을 2~3회로 나누어 경구 투여한다. [사용상의 주의사항] 1, 다음 환자에는 투여하지 말 것, 1) 고칼슘철증 환자기 부갑성선기능항진증 환자(이온교환으로 혈중칼 숨동도가 성송할 수 있다! 31 대발성 골수종 환재이온교환으로 혈충칼슘동도가 성송할 수 있다! 41 사로코이드증 또는 전이성 암종 환자 51 폐색성 장질환 환재장관천공이 나타날 수 있다! 61 개월 미만의 산생아 (중략) 3. 이상반응 : 이 약에 대한 임상시험 및 시판 후 안전성 조사결과, 총 1,182에 경구투여시 151명(12,8%)에서 159간의 이상반응이 보고되었다. 이 중 가장 많이 보고된 이상반응은 변비(102건, 9,2%), 식욕부진(16건, 1,1%), 구역(16건, 1,4%), 저킬륨혈증 (13건, 1,1%) 등이었다. (중략) 9, 적용성의 주의 1) 이 악은 경구로만 투여한다. 2) 이 악의 유사 악물(폴리스티렌실포산나트룹)의 소르비톨 현탁액 경구투여시 소장내 천공, 장점막 과사, 소장중앙과 결장과사 등이 보고되었다. 3) 이 약 경구투여시 소화관에서의 축적을 피하기 위해 변비가 발생하지 않도록 주 의한다. 4) 이 악과 알긴산나트륨과의 병용투여로 소화관 내 불용성 껠이 발생하였다는 보고가 있다. [포장단위] 100포 [저장방법 및 사용기간] 기밀용기, 실온(1~30°C)보관 제조일로부터 36개월(3년)

수입자 (카리메트현탁액)



판매자 (카리메트산/과립/현탁액) Alvogen



Reference (, Milan B, White et al. Effects of the Angotom's Receptor Blocker Adhatin Medocomil Vessa Offices and and Ashatian on Antibutory and Chric Blood Pessate in Beliefs With Stages 1 and 2 Hypertersion, 1975/187-187.

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. 구납한에서) 글부터는세력 중중국로 중구시 중한구 로중합 2한한도 & [제요시] laketa leta dullilled * 이 내용은 허가사항을 요약한 것으로 자세한 정보는 제품의 첨부문서 또는 http://nedrug.mfds.go.kr를 확인하십시오









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*저용량 항고혈압제 단독요법으로 혈압조절이 어려운 고혈압 환자

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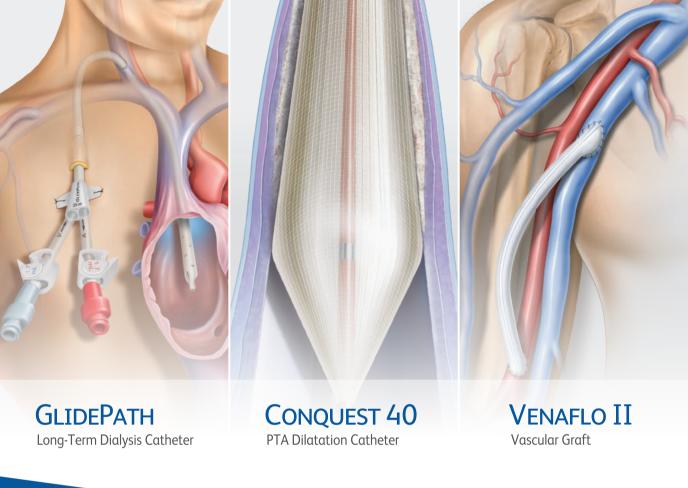
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(Study design*) In two multiceter, placetor-controlled, dose-response studies in patients with hyperlipidemia, UPTOR given as a single dose over 6 weeks, significantly reduced total-C, LDI-C, spo B, and TG, Atomastatin 10mg/n-20, 20mg/n-20, 40mg/n-21, 80mg/n-21, 8

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