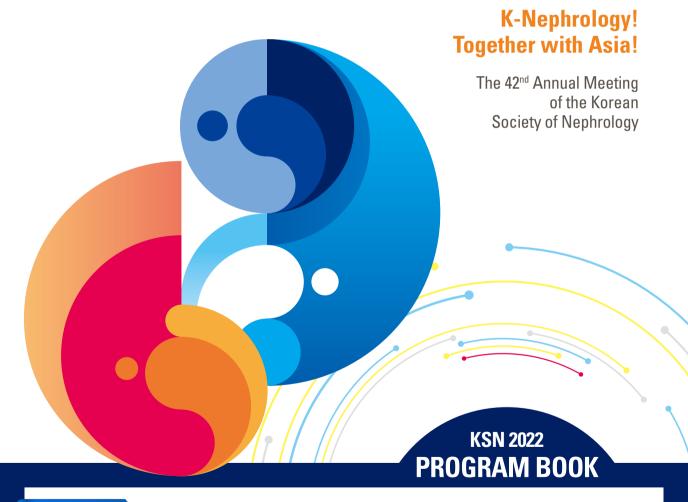


KSN 26-29 2022



































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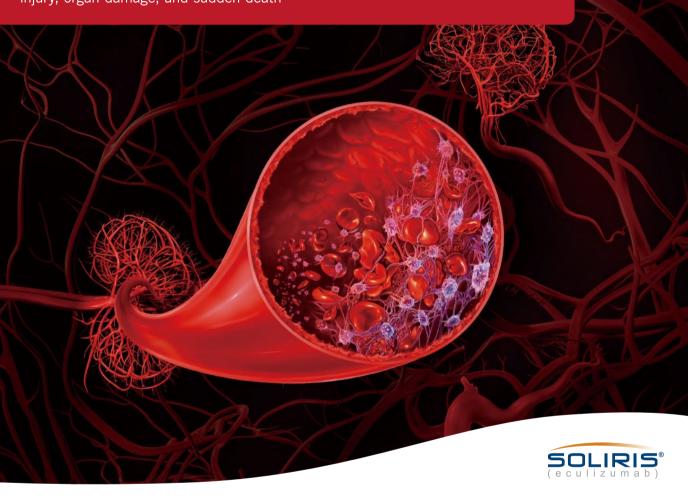
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References: 1, Laurence J, Clin Adv Hematol Oncol, 2016;14(suppl 11):1-15, 2, Legendre CM, et al, N Engl J Med, 2013;368:2169-2181, 3, Noris M, et al, Nat Rev Nephrol, 2012;8:622-633,

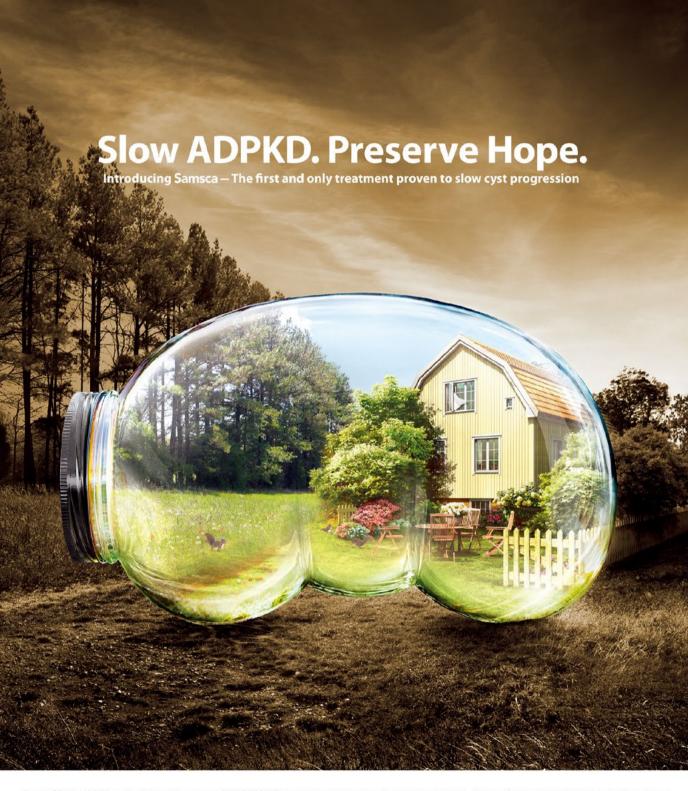
Selected prescribing information

전문의약품

등 설립 하는 지도를 하는 이 학교 기가 함께 함께 이 기를 가는 경기 발작성 이간 발생소 도움(PNH : Paronysmal Noctumal Hemoglobinuria) 용접을 감소 시키기 위한 발작성 이간 활색소 도움(PNH : Paronysmal Noctumal Hemoglobinuria) 환지의 지로 수행 이라고 바꾸지었다. 등 설립 활성을 의미하는 당신 중심이 있는 환지의 용접에 입성적 이익이 박반되었다. 이 바반되어 등 설립 환경 의미하는 다른 전체 등 경기 위한 발작성 이건 활색소 되었다. 이 바반되어 등 설립 설심 모든 주후 건대 No. : approad Hemoglobinuria) 용접 설심 모든 주후 건대 No. : approad Hemoglobinuria) 용접 설심 모든 주후 건대 No. : approad Hemoglobinuria) 용접 설심 모든 주후 건대 No. : approad Hemoglobinuria) 용접 설심 모든 주후 건대 No. : approad Hemoglobinuria) 용접 설심 모든 주후 건대 No. : approad Hemoglobinuria) 용접 설심 모든 주후 건대 No. : approad Hemoglobinuria) 용접 설심 설심 으로 주후 건대 No. : approad Hemoglobinuria) 용접 설심 설심 으로 주후 건대 No. : approad Hemoglobinuria) 용접 설심 설심 으로 주후 건대 No. : approad Hemoglobinuria) 용접 설심 설심 으로 주후 건대 No. : approad Hemoglobinuria) 용접 설심 설심 으로 주후 건대 No. : approad Hemoglobinuria) 용접 설심 설심 전 주후 건대 No. : approad Hemoglobinuria) 용접 성심 전 주후 전 기본 설심 전 수를 보고 하는 경험에 되었다. (No. : approad Period Approad No. : approad Period Approad No. : approad Hemoglobinuria) 용접 성실 지수 : approad No. : approad No. : approad Hemoglobinuria) 용접 성실 으로 하는 Approad No. : approad







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 ~ 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. Patient should 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.





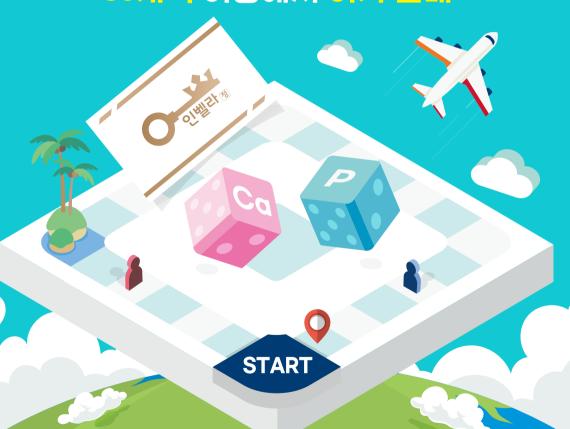


Metal free Phosphate Binder¹

인벨라정

세벨라머탄산염

Head to Head 3상 입상 시험²으로 30개국 이상에서 허가 판매³



인벨라정 제품요약정보4

[제품명] 인벨라정(세벨라머탄산염) [원료약품 및 그 분량] 이 약 1정 중 인벨라정 유효성분: 세벨라마탄산염(별규)…800 mg (효능·효과) 투석을 받고 있는 만성 신장질환 환자의 혈청 인 조절 [용밥·용량] 이 약은 1일 3회 식사와 함께 복용하여야 한다. I) 인산결합제를 복용하고 있지 않는 환자에 투여하는 경우 (용약·출행20 55~75 mg/d). 1회 [정 1일 3회·식사와 함께 복용 (출착) 전체 환경 (환경인 75 mg/d). 이야는 1회 2점, 1일 3회 식사와 함께 복용 (환경인 75 mg/d). 이후 장권대는 사용하지 말 것, 1) 이 약의 주성분 및 부형제에 과민한 환자 2) 저인산혈증 환자 3) 정폐색 환자(의 약은 장권대에서 행윤하여 장관천공을 알으킬 우러가 있다.) 4) 이 약은 유당을 함수하고 있으므로, 갈락토오스 불부성(galactose intolerance), Lapp 유당분해효소 결핍중(Lapp lactose deficiency) 또는 포도와-괄락토오스 불부경에 전환성으로 알으킬 우리가 있다.) 4) 이 약은 유당을 함수하고 있으므로, 갈락토오스 불부증에 (glucose)으로 lactose malabsorption) 등의 유전적인 문제가 있는 환자에게는 투여하면 안 된다. 2 다음 환자에게는 신중하 투여할 것, 장관협착 또는 변비가 있는 환자이 약은 장관 내에서 평양하여 정폐색, 장관 천공을 알으킬 우려가 있다.) (제조자) Synthon Hispania SL Coastello 1 Poligono Las Salinas 08830 Sant Boi de Llabrgat, Barcelona Spain (소분제조자) 에스케이케미칼(주) 충청북도 청주시 흥덕구 산단로 14억 (판매자) 에스케이케미칼(주) 경기도 성당시 분당구 판교로 310 2017(2) 20 개정 ※ 처방하시기 전 제품설명서 전문을 참고하십시오. 최신 허가사항에 대한 정보는 '식품의약품안전처 의약품안전치 의약품안전나라 (https://nedrug.mfds.go.kr/index)'에서 확인할 수 있습니다.

References 1, Sevelamer carbonate FDA Prescribing information(revised 4/30/2020) 2, 인벨라정 3상임상시험결과보고서, Data on file, SK chemicals, Up dated 2013 Mar 22 3, 인벨라정 하기판매국, Data on file, SK chemicals, Up dated 2017 Aug 10 4, 인벨라정 하기정보, 온라인의약도서관[Cited 2022 Apr 07] Available from:http://drug.mlds.go.kr/ 5, Ketteler M et al., Kidney Int, 2017 Jut/92(1):26—36

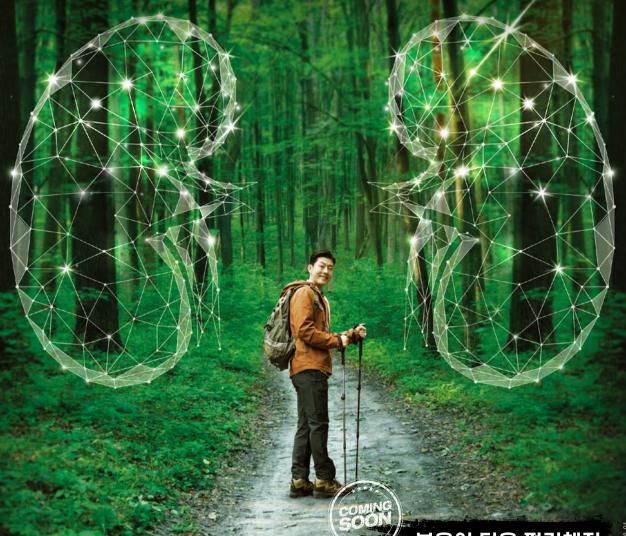
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전문의약품





만성콩팥병 환자의 신기능 악화 지연을 위해. 포시가®로 환자를 지켜주세요

- SGLT2i 중 **최초**이자 **유일**하게 **만성 콩팥병 적응증**획득¹
- 당뇨 유무와 관계없이 만성 콩팥병 환자에서 신기능 악화, ESKD.신장 또는 심혈관 질환으로 인한 사망위험 39% 감소^{2*}
- 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-glucose cotransporter 2 inhibitor: FSKD, end-stage kidney disease: HR, hazard ratio: CL confidence interval

1, 포시기약국내 허가사항(https://nedrug.mfds.go.kr, as of 12-Aug-2021) 2, Heerspink HJL, et al, Dapaqliflozin in Patients with Chronic Kidney Disease N Engl. J Med. 2020; 383:1436-1446; 3, Mosenzon Ofri, et al, The Effect of Dapaqliflozin on Albuminuria in DECLARE-TIMI58. Diabetes Care. 2021 Jul 7;dc210076. doi: 10.2337/dc21-0076. Online ahead of print.

포시가 정10밀리그램 (다파글리플로진프로판디올수화물)

[성본·함방] 이 약 18 (역 200mg) 중 유호생: 다마급이탈로샌드로만다음수회물 (배규) 12.3mg (다마급이플로샌으로서 10mg) 참가로 우수위하(등용우리설문) 기원동을 소, 사용부탁 유위, 미결정생물로오스 스테이르스미그네 송, 오피드라이나라섹마576520, 인생원자, 크로스되마트

슘, 오파드라이 【효능 · 효과】 요궁 ' 요~] . 제2형 당뇨병: 이 약은 제2형 당뇨병 환자의 혈당 조절을 향상시키기 위해 식사요법 및 운동요

법의 보조제로 투여한다.

- 병용오법 했다이 중심하는 제소에 당노병 환자 중 실험관계 실환이 확인되었기과 실험관계 위원되었기 있는 환자에서 실험관계 사건 범성에 대한 영향은 '사용심의 주의사형, 11, 전문가를 위한 정보, 항상시험 정보' 형용 참고한다.
2 전성 심판조 과임실 수축가들이 처리된 건성 심부전(Winhi A cless I-riv) 환자에서 실험관 활란으로 인한 사망 및 실바건으로 인한 외망 위원당 감소 이 약도 다른 실부로 표근로입과 병명하여 두대한다.
3. 만성신장한 단성 신장면 환자에서 추정 사가에 여자를 (estimated glomenular litration rate (eOFR)) 의 자유학인 조소 및 기사전병이 도보, 설환관 결환으로 만한 사망 및 신장 관련 사망 위험성 감소 이 약도 다른 신장병 표준오업과 병명하여 두대한다.
[유명분 -용원]

[용법·용량]

나 마늘을 꾸기 50 표별 이 어떤 권장 용당은 단도 있법 및 인습된 등 다른 철당 권하체인의 추가 병용 오밖에 대하여 1일 1회 (Drugolit, 이 약을 인슐린 또는 설퍼날루에야 같은 인슐린 분비 촉진제와 병용하여 사용 하는 경우, 지혈당의 위험을 줄이기 위해 더 낮은 용령의 인슐린 또는 인슐린 분비 촉진제를 고 려할 수 있다.

만성 심부전 및 만성신장병 이 약의 권장용량은 1일 1회 10 mg이다.

특수 집단

- eGFR 45mL/min/173m² 미만 ; 협당조절 개선 목적으로 이 약을 투여하는 것은 권장되지 않는다. eGFR 25mL/min/1.73m² 미만 : 만성 심부전 및 만성 신장병 환자에게 이 약의 투여를 시작하

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

~ 무역 중단, 환성· 이 역표 무막이어 않는다. 건**장에** 경증 또는 중등증의 간정에 환자에 대한 용량 조절은 필요하지 않다. 중증의 간정에 환자에 대하면, 시작 용량으로 5 mg이 권정된다. 내약성이 양호한 경우, 이 용량은 10mg으로 증가시킬 소 이다.

만 18세 미만의 소아에 대한 다파글리플로진의 유효성과 안전성은 확립되지 않았다. 관련 다료가 없다. 투여방법 ______ 이 익은 음식 섭취와 관계없이, 1일 1회 하루 중 언제라도 경구 투여할 수 있다. 정제는 통째로 삼켜야 한다.

[사용사 주의사항]

1. 다음 환자에는 투여하지 말 것 1) 이 악의 주성분 또는 첨가제에 대한 과민반응 병력이 있는 환자

2 제형 당뇨병 또는 당뇨병성 케토산중 환자 3이 이 약은 유당 우수물을 말유한다. 강역도오스 불내성(galactose infolerance). Lapp 유당 분해호소 결핍하[Lapp bottes edicions) 또는 포도당-감독도오스 흡수정에(glucose-galactose matistorption) 등 마션적인 문자가 있는 환자에게는 투여하면 안된다. 4 투석 중인 환자 7 ISB 참가하는 ISBN 표정하는

2. 다음 환자에는 신중히 투여할 것

환자에서 이 약의 투여를 시작하는 것은 권장되지 않는다(용법 · 용량 항 참조). 개정년월일 : 2021년8월12일

보다 자세한 사항은 제품설명서 전문을 참고하시기 바랍니다.

표시가정은 (1) 제2형 담노병 환자의 혈당 조절의 향상. (2) 좌심실 수축기능이 저하면 만성 심부전에서는 dess I-M) 환자에서 심혈관 질환으로 인한 시앙 및 심부전으로 인한 입원 위함성 감소. (3) 만성 신정병 환자에서 추정 사구체 여과율 (GFT)의 지속적인 감소. 말기 신장병에도 달. 심혈관 질환으로 인한 시앙 및 심부전으로 인한 시앙 및 신장 관련 시앙 위합성 감소를 효능 - 효과 로 하기받았습니다. 한국 이스트라제네카는 어떤 상황에서도 포시기의 미하가 사용을 관장하지 않습니다.





Weekly

Biweekly







INDICATIONS

 Renal anemia
 Chemotherapy induced anemia in solid cancer patients DOSAGE AND ADMINISTRATION

<Hemodialysis patients>

-Initial dose

The usual dose of NESP in adult patients is 20 μ g, 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

darbepoetin alfa (genetical recombination), to be administered as a single intravenous underguent area galerotan recombinationly, to be administered as a single intervenous 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 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 patient's age, and should not exceed 180 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>

The usual dose of NESP in adult patients is 30u 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 -Maintenance dose

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

dardepotent and (general recommunity), to be administered as a single rejection line 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 two weeks injection. In this case, the usual dose in adult patients is 60-180 µg administered as a weeks injection. In this case, the toxad doze in adult patients is 60-16 by a minimistered as a single injection once every four weeks subcutaneously or intravenously. In all cases, the dose 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 11g/dl of hemoglobin level

<Precautions related to Dosage and Administration>

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

darbepoetin alfa (genetical recombination), to be administered as a single injection once

- 1) Patients who have been treated with an erythropoietin preparation twice weekly or three I reason with larke even treason with a reason with a reason where even you there there were the reason with a rea
- every two weeks Calculate the total dose of the erythropoietin preparation administered every wo veeks cancellate the total obser of the eyring/potent preparation administered during the two weeks before the switching, 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

2. Does adjustment if does 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 princip

PRECAUTIONS

See the package insert.

STORAGE

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

for NESP 20µg, 30µg, 40 µg, 60µg, 120µg, respectively

Taivo Pharmaceutical Co., Ltd.

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Effective phosphate management, simplified

- 포스레놀®은 높은 인(P) 결합력을 가진 인 조절의 1차 선택제입니다.1
- 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 탄신영) 포스레놀정500일리그램 1정(약954mg) 중 란타늄으로서 500mg, 포스레놀정750일리그램 1정(약 1431mg) 중 란타늄으로서 750mg, 포스레놀산1000일리그램 1포(약 1908mg) 중 란타늄으로서 1000mg [효능·효과] 혈액투석이나 복막투석을 받는 만성신부전 환자 또는 인 제한 식이요법만으로 혈청 인산 수치가 충분히 조절되지 않고 1,78 mmol/L (약 5,5mg/dL) 이상인 투석을 하지 않는 만성 신장 집환 환자의 고인산혈증 치료 [용법·용량] 성인(65세 이상의 고령자 포함): 포스레놀은 매 식사와 함께 혹은 식후 즉시 분복한다. 정제의 경우, 이 약을 그대로 심키지 않고 반드시 썹여서 복용해야 한다. 생는 것을 용이하게 하기 위해 이 약을 부수어 복용할 수 있다. 분말의 경우 이 약을 소랑의 부드러운 음식에 섞어서 주시(15분이내) 복용해야 한다. 이 약은 녹지 않으므로 복용을 위해 액체에 녹이지 않는다. 협청 인사 동도는 관란으로서 750mg/일 용량에서 조절되기 시작하였고, 대부분의 환자에서 1500~3000mg/일 용량에서 적정 합청 인사 당도로 조절되었다. [이상반응] 가장 흔하게 보고된 이상반응은 두통 및 알러지 피부 반응을 제외하고 위장관계 증상이었다. 위장관계 증상은 이 약을 식사와 함께 투여 시 발생빈도가 최소화되고, 일반적으로 투여가 지속될수록 약해진다.

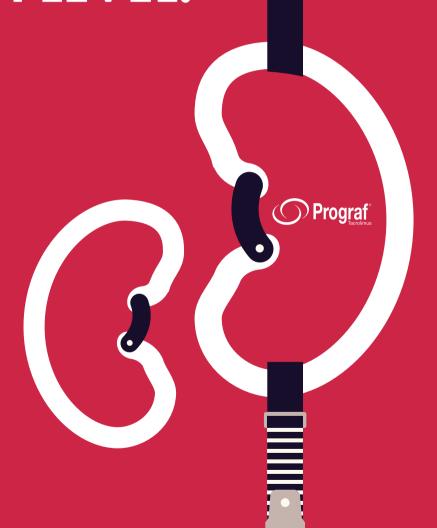
※ 보다 자세한 내용은 제이더블유중외제약 홈페이지(http://www.jw-pharma.co.kr)나 식품의약품안전처 온라인의약도서관(http://drug.mids.go.kr)를 참고하시기 바랍니다.





OPTIMIZE TACROLIMUS TROUGH LEVEL! 1,2





'권장 최저혈중약물농도: 임상 현장에서 이식 후 초기의 최저혈중약물농도는 간이식 환자의 경우 5-20 ng/mL, 산이식 환자의 경우 10-20 ng/mL이었다. 이후 유지기간 동안의 최저혈중약물농도는 간이식 및 산이식 환자에서 5-15 ng/mL이었다.

로그랍® 제품설명서(작성일:2020.05.14)**.** lebe C, *et al.* Class **I** Eplet Mismatch Modulates Tacrolimus Trough Levels Required to Prev





Real evidence of efficacy

아달라트[®] 오로스는 지난 20년간 다양한 임상시험을 통해 고혈압 환자에 대한 효과와 안전성 프로파일을 입증해 왔습니다.

- INSIGHT study를 통해, 1일 1회 복용으로 24시간 일정하고 안정된 혈압조절 효과 입증¹ - ACTION study를 통해 ,안정형 협심증을 동반한 고혈압 환자에서 장기간(ン5년) 혈압강하 효과 입증² - 한국 환자*를 대상으로 실시한 FOCUS study를 통해. 단독 및 병용 요법 모두에서 우수한 혈압조절 효과 입증³

*저용량 항고혈압제 단독요법으로 혈압조절이 어려운 고혈압 환자

아달라트® 오로스정

[제품명] 아달라트오로스정 30/60 [주성분] 니페디핀(미분화) 33mg/66mg [효능효과 / 용밥 용량] 1.관동맥심질환(만성안정형험심증) 2.고혈압 처음에는 30mg 또는 60mg을 하루 한번씩 통상 7-14일간 투여하면서 환자의 상태에 따라 용량을 조절한다. 고혈압: 치료 시작시에 20mg이나 30mg을 권장한다. 약물의 혈충 농도가 둘째날부터 안정상태에 도달하므로 환자의 상황을 자주 측정하여 적정기간을 단축할 수 있다. 최고 120mg을 초과하지 않도록 한다. 반드시 환자의 중심에 따라서 조절되어야 한다. 삼투압 원리의 약물방출기전(오로스제항)을 이용하는 이 약의 투어는 식사와 무관하게 할 수 있다(공복시 또는 식사후의 이 약의 흡수에 차이는 없다). [사용상의 주의사항] 1. 다음 환자에는 투여하지 말 것 1) 이 약에 과민증의 병력이 있는 환자 2) 임부 또는 임신하고 있을 가능성이 있는 부인 수위부 3) 심인점 속 환자 4) 불안정형 협심증 환자 (심근형철을 증가시킬 수 있다의 참시부전을 일으킬 수 있다.)(단, 제품의 충능효과가 "현심증" 및 "휴식시의 합심증"에 해당되는 제제인 경우 제외) 5) 지혈압 (수축기압 90mmHg 미만) 환자 6) 중증의 대등맥판합착증 환자 7) 리판피신을 투여받고 있는 환자(리판피신과 병용시에는 효소 작용으로 인해 이약의 적절한 혈충 동도를 얻지 못할 수 있다) 8) 급성 심근경색 (8일 이내) 환자 (급격한 혈행동데의 변화로 병태가 약화될 수 있다.) 9) 작장절체수술 후 최정조목술을 받은 콕날(Kook pouch)환자 2.주오 이상반응 1) 긴장: "때때로 AST, ALT, ALP 상승등 간기는 검사치이상, 2) 비뇨기계: 때때로 BUN 상승 3) 순환기계: 때때로 흥통, 허혈성 동통 (특히 치료 초기나 용당증기가), 심근검색, 때대로 안면충조, 일본, 심계환간, 할인점 여행보는 기자 2만 가장 함보하는 것이 함보하는 3가 기본 등 기자를 보면하는 경우 기관 2만에 가장 기관 1만에로 구역, 무토, 변화 6) 과민증 대때로 발한 3 가민증 대때로 발한 3 가민증 대때로 발한 3 가민증 대패로 발한 3 가민증 대때로 발한 3 가민증 대때로 발한 3 가민증 대체로 상용시작 2 기 피부 : 홍피경 (박리석파부임) 8) 골식근 : 때때로 하지 경단 연호에 의해 치은비후 10) 전신 : 때때로 불판감, 부종, 복통, 하지통, 동통 11) 호흡기계 : 때때로 호흡근란 [전문역약품][수입 및 판매자] 바이엘코리아(위 (개점선혈일) 2019.07.11 보다 자체한 사항은 제품설명서 전문 또는 바이엘 웹사이트, http://www.bayer.cc.k/를 참고하시기 바랍니다.

Reference 1. Mancia G, Omboni S, Parati G: Investigators of the INSIGHT ABPM substudy, Twenty-four hour ambulatory blood pressure in the International Nifedipine GITS Study Intervention as a Goal in Hypertension Treatment (INSIGHT), J Hypertens 2002 Mar;20(3):545-53 2. Lubsen J, Wagener G, Kirwan BA et al. Effect of long-acting nifedipine on mortality and cardiovascular morbidity in patients with symptomatic stable angina and hypertension: the ACTION trial. J Hypertens 2005 Mar;23(3):641-8 3.Park JB, Ha JW, Jung HO, Rhee MY; FOCUS investigators, Randomized trial comparing the effects of a low-dose combination of nifedipine GITS and valsartan versus high-dose monotherapy on central hemodynamics in patients with inadequately controlled hypertension: FOCUS study, Blood Press Monit 2014 Oct;19(5):294-301





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Overview

Title	The 42 nd Annual Meeting of the Korean Society of Nephrology (KSN 2022)		
Date	May 26 (Thu) - 29 (Sun), 2022		
Hosted by	The Korean Society of Nephrology, Korean Nephrology Research Foundation		
Meeting Format	Hybrid Meeting (Korean Participants: Offline only, International Participants: Online only)		
Official Language	inglish, Korean		
Program	Opening Ceremony, Plenary Sessions, Invited Lecture Sessions, Oral & Poster Sessions, Exhibition		
Secretariat	The Korean Society of Nephrology #301 (Miseung Bldg.) 23, Apgujeong-ro 30-gil, Gangnam-gu, Seoul, 06022, KOREA Tel: 82-2-3486-8736 Fax: 82-2-3486-8737 E.mail: ksn@ksn.or.kr KSN 2022 Secretariat 4FI. 10, Yeoksam-ro 7-gil, Gangnam-Gu, Seoul, 06244, Korea Tel: +82-2-6207-8175 Fax: +82-2-521-8683 E-mail: office@ksnmeeting.kr		

The Korean Society of Nephrology Organization

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The Korean Society of Nephrology Organization

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Big Data	Tae Ik Chang, M.D.		

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



Yang Wook Kim, M.D.
Congress President
The Korean Society of Nephrology

Welcome Message

Dear Colleagues,

On behalf of the Korean Society of Nephrology, we would like to welcome all participants to the 42nd Annual Meeting of the Korean Society of Nephrology (KSN 2022).

We organized past 2 year's KSN meeting 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.

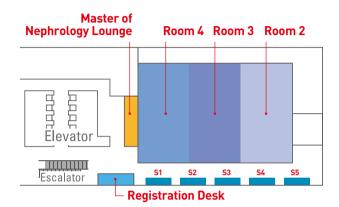
We believe that the global situation will be better in 2022. However, we are afraid that it may be difficult to travel abroad yet. Therefore, KSN 2022 will be held in a hybrid format combining in-person and virtual programs. It's a pity in the face of a global pandemic that we can't enjoy the fascinating face-to-face meeting in Seoul with international participants, but we will try to make the meeting that all participants can as much as possible actively engage in and fully enjoy it through virtual components.

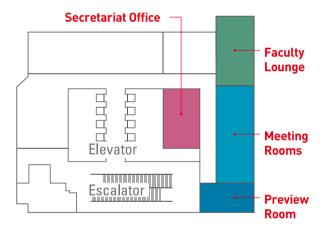
KSN 2022 is the 7th international meeting since 2016, when the KSN expanded its national scientific meeting to an international meeting. Every year, more than 2,500 kidney professionals attend the annual meeting with some 200 experts from all over the world delivering the latest findings and engaging in high-quality discussions.

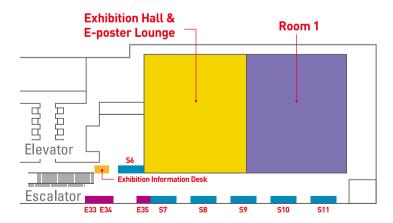
Under the theme "K-Nephrology! Together with Asia!", KSN 2022 covers a wide range of hot topics as well as the most recent updates in various fields of nephrology. We have also invited key opinion leaders in the global nephrology community, and organize joint symposia with related societies. We firmly believe that KSN 2022 will be invaluable in deepening your knowledge and broadening your global network.

Once again, we welcome you to KSN 2022 meeting, and please share your valuable expertise with us and enjoy the programs prepared for you at KSN 2022.

Sincerely yours,







3F

- Room 2
- Room 3
- Room 4
- Master of Nephrology Lounge
- Registration Desk

4F

- Preview Room
- Meeting Rooms
- Faculty Lounge
- Secretariat Office

5F

- Room 1
- Exhibition Hall & E-poster Lounge

Facility Operating Hours

Registration Desk

Date	Operating Hours	Location
May 26 (Thu)	07:30~17:50	
May 27 (Fri)	07:30~17:50	Lobby (3F)
May 28 (Sat)	07:30~18:10	LUDBY (SF)
May 29 (Sun)	07:30~16:40	

Preview Room

Date	Operating Hours	Location
May 26 (Thu)	07:30~17:50	
May 27 (Fri)	07:30~17:50	Poolvio F ///E\
May 28 (Sat)	07:30~18:10	Baekje 5 (4F)
May 29 (Sun)	07:30~16:40	

Faculty Lounge

Date	Operating Hours	Location
May 26 (Thu)	07:30~18:50	
May 27 (Fri)	07:30~18:50	Baekje 1 (4F)
May 28 (Sat)	07:30~19:10	раскје I (4F)
May 29 (Sun)	07:30~17:40	

Exhibition Hall & E-poster Lounge

Date	Operating Hours	Location	
May 26 (Thu)	08:00~19:00		
May 27 (Fri)	08:00~19:00	Lobby (3F, 5F),	
May 28 (Sat)	08:00~19:00	Exhibition Hall (5F)	
May 29 (Sun)	08:00~18:00		

Program at a glance

KOR Korean	ENG English KOR→ENG KO	DR/ENG Simultaneous Interpretation	Plenary Lecture & Official Program	Oral Communication (English)
		Day 1 May 26 (T	hursday)	
Time	Room 1 (5F)	Room 2 (3F)	Room 3 (3F)	Room 4 (3F)
08:30-10:30	PG Education 1 Hemodialysis	PG Education 2 Fluid & Electrolyte	PG Education 3 Kidney Transplantation	Oral Communications 1
10:30-10:40		Bn	eak	
10:40-12:40	PG Education 4 Peritoneal Dialysis	PG Education 5 Intervention Nephrology	ISN Basic Science Symposium (10:40-13:10)	Oral Communications 2
12:40-13:30		Industry Symposium 1 한국아스트라제네카(주)		Industry Symposium 2 한국아스텔라스제약(주)
13:30-15:30	Big Data	Hypertension and Vascular Biology	Pathology	Oral Communications 3
15:30-15:40	Bn	eak	(13:40-16:40)	Break
15:40-17:40	Asian Nephrology Forum			
17:40-17:50		Br	eak	
17:50-18:00		Opening	Remarks	
18:00-18:50			Lecture 1 renvinkel	
18:50-19:00		Br	eak	
19:00-21:00				Welcome Reception
		Day 2 May 27 ((Friday)	
Time	Room 1 (5F)	Room 2 (3F)	Room 3 (3F)	Room 4 (3F)
08:30-10:30	Acute Kidney Injury 1	Chronic Kidney Disease 1	KSN-EDTA Joint Symposium	Becoming a New Basic Researcher
10:30-10:40		Br	eak	
10:40-12:40	HK-KSN Joint Symposium (Acute Kidney Injury 2)	Diabetic Kidney Disease	Basic Research	Oral Communications 4
12:40-13:30	Industry Symposium 3 (주)유한양행	Industry Symposium 4 한독	Industry Symposium 5 한국교와기린(주)	Industry Symposium 6 JW 중외제약(주)
13:30-13:40		Br	eak	
13:40-14:30			Plenary Lecture 2 Best Abstracts	
14:30-14:40		Bn	eak	
14:40-16:40	Kidney Transplantation 1	Chronic Kidney Disease 2	Award Session (14:40-16:00)	Oral Communications 5
16:40-16:50 Break				
16:50-18:50	Kidney Transplantation 2	KSN Research Fund Project	R&D in Nephrology	

Program at a glance

KOR Korean	ENG English KOR→ENG KO	R/ENG Simultaneous Interpretation	Plenary Lecture & Official Program	Oral Communication (English
		Day 3 May 28 (S	Saturday)	
Time	Room 1 (5F)	Room 2 (3F)	Room 3 (3F)	Room 4 (3F)
07:00-08:30	KSN Board of Regent			
08:30-10:30	Hemodialysis 1	Peritoneal Dialysis	KSN-ISN Joint Symposium	Oral Communications 6
10:30-10:40		Ві	reak	
10:40-12:40	JSN-KSN Joint Symposium (Hemodialysis 2)	Genetic Disease	KSN-TSN-JSDT Joint Symposium	Future Medicine
12:40-13:30		Industry Symposium 7 (주)FMC코리아	Industry Symposium 8 (주)박스터	Industry Symposium 9 보령제약(주)
13:30-14:00	General Assembly		Break	
14:00-14:50	14:00-14:50 Plenary Lecture 3 Masaomi Nangaku			
14:50-15:00		Poster	· Visiting	
15:00-17:00	Fluid and Electrolyte	Pediatric Nephrology	APSN-KSN CME Course 1	KDIGO-KSN Joint Symposium
17:00-17:10		Break		(15:00-18:00)
17:10-19:10	Geriatric Nephrology	Glomerulonephritis	APSN-KSN CME Course 2	
		Day 4 May 29 (Sunday)	
Time	Room 1 (5F)	Room 2 (3F)	Room 3 (3F)	Room 4 (3F)
08:30-10:30	Nephrology Board Review Course 1 별도 현장등록 필요	Dialysis Specialist Physician Course 1	Dialysis Nurse Course 1	KSN-KSH Joint Symposium (Korean Society of Hypertension)
10:30-10:40		Ві	reak	
10:40-12:40	Nephrology Board Review Course 2 별도 현장등록 필요	Dialysis Specialist Physician Course 2	Dialysis Nurse Course 2	KSN-KES Joint Symposium (Korean Endocrine Society)
12:40-13:30		Industry Symposium 10 SK케미칼(주)	Industry Symposium 11 한국오츠카제약(주)	Industry Symposium 12 HK이노엔(주)
13:30-15:30	KSN-KSCN Joint Symposium (Korean Society of Clinical Nutrition)	KORDS Report / Diaylsis Center Accreditation	New Field in Nephrology	National Projects in Nephrology
15:30-15:40		Ві	reak	
15:40-17:40	Ethics Education 필수강의 윤리교육	Kidney Academy	KSN Cooperative Study	Oral Communications 7

		Day 1 May 26 (Thursday)		
08:30-10:30		n 1 (Hemodialysis) ss for Hemodialysis	KOR↔ENG	Room 1 (5F
Chair(s)	Ki Ryang Na Hyung Seok Lee	Chungnam National University Hospital, Korea Hallym University Sacred Heart Hospital, Korea		
Surgical Anato	my and Radiologica	al Imaging of Vascular Access for Hemodialysis	Yaeni Kim The Catholic Univer St. Mary's Hospital,	
Strategies to Ir	mprove Patency of	Vascular Access	Sangeon Gwoo Changwon Hanmae	um Hospital, Korea
Assessment of	Vascular Access U	sing Ultrasonography (Live Demonstration)	Eun Jung Kim Hallym University D Hospital, Korea	ongtan Sacred Heart
Practical Aspe	cts of Tunneled Cat	theter for Maintenance Hemodialysis	Hyeon Seok Hwa Kyung Hee Universi Medicine, Korea	
08:30-10:30		n 2 (Fluid & Electrolyte) s of Electrolyte Disturbances	KOR↔ENG	Room 2 (3F
Chair(s)	Gheun-Ho Kim Sejoong Kim	Hanyang University Medical Center, Korea Seoul National University Bundang Hospital, Korea		
Complicated C	ases of Hyponatrer	nia	Seon Ha Baek Hallym University D Hospital, Korea	ongtan Sacred Heart
Sjogren Syndro	ome and Renal Tub	ular Acidosis Type 1	Hong Sang Choi Chonnam National Korea	University Hospital,
Hyperkalemia	Encountered in RA	AS Inhibitor Users	Tae-Hyun Yoo Yonsei University Co Korea	llege of Medicine,
Hyperkalemia	and Hypomagnens	emia in KT Recipients	Yong Chul Kim Seoul National Univ Korea	ersity Hospital,
08:30-10:30		on 3 (Kidney Transplantation) ement for Medical Complications After Kidney on	KOR↔ENG	Room 3 (3F
Chair(s)	Sik Lee Ho Sik Shin	Jeonbuk National University Medical School, Korea Kosin University Gospel Hospital, Korea		
Monitoring and	l Management of N	ODAT	Jung Pyo Lee Seoul National Univ Medicine, Korea	ersity College of
Monitoring and	I Management of P	ersistent Hyperparathyroidism After KT	Gang Jee Ko Korea University Gu	ro Hospital, Korea
Cancer Screen	ing Strategy After I	KT	Kyung Don Yoo Ulsan University Ho	spital, Korea
08:30-10:30	Oral Commu		ENG	Room 4 (3F
Chair(s)	Seo Rin Kim	Pusan National University Yangsan Hospital, Korea		

10:40-12:40	PG Educatio <i>Basic Principle</i>	n 4 (Peritoneal Dialysis) es in PD	KOR↔ENG	Room 1 (5F	
Chair(s)	Duk-Hee Kang Sun-Hee Park	Ewha Womans University Medical Center, Korea Kyungpook National University Hospital, Korea			
ISPD Peritonit	is Guideline: 2022 U	pdate	Philip Li Chinese University Kong	of Hong Kong, Hong	
Volume Contro	ol in PD		Young Sun Kang Korea University Ansan Hospital, Korea		
Prescribing PI)	Tae Ik Chang National Health Ins Hospital, Korea	urance Service Ilsan		
Peritoneal Me	mbrane Dysfunction	n	Tae-Hyun Yoo Yonsei University Co Korea	ollege of Medicine,	
10:40-12:40	PG Educatio	KOR↔ENG	Room 2 (3F		
Chair(s)	Sung Gyun Kim Seung Jung Kim	Hallym University Sacred Heart Hospital, Korea Ewha Womans University Mokdong Hospital, Korea			
Basic Principles of Vascular Access for Hemodialysis			Hyung Seok Lee Hallym University Sacred Heart Hospital, Korea		
The Role of Po	cus in Hemodialysis	s Unit	Eun Jung Kim Hallym University D Hospital, Korea	Jongtan Sacred Hear	
How to Overco	me AV Access Thro	mbotic Flow-related Complications	Jin Ho Lee LEESIN Hemodialys Clinic, Korea	sis and Intervention	
How to Overco	me AV Access Non-	thrombotic Complications	Sangeon Gwoo Changwon Hanmae	eum Hospital, Korea	
10:40-13:10		ce Symposium: A Session of the ISN ast Asia Regional Board	KOR↔ENG	Room 3 (3F	
Chair(s)	Sang Ho Lee Motoko Yanagita	Kyung Hee University Hospital at Gangdong, Korea Kyoto University Graduate School of Medicine, Japan			
Identification o	of an A-Kinase Anch	or Protein Essential for Urinary Concentration	Fumiaki Ando Tokyo Medical and Dental University, Japan		
B Cell Reperto Treatment	ire in Lupus Nephri	tis - Role in Disease Pathogenesis and Implications on	Desmond Yap Queen Mary Hospital, Hong Kong		
AKI and Gut Dy	/sbiosis		Jihyun Yang Korea University Anam Hospital, Korea		
Role of Extrace	ellular Vesicles in K	idney Disease: From Mechanism to Translational	Linli Lv Southeast Universit China	y School of Medicine	
Determinants	of Gut-derived Urer	nic Toxins	Ting-Yun Lin Taipei Tzu Chi Hosp	ital, Taiwan	
10:40-12:40	Oral Commu Electrolyte, Hy	nication 2 pertension and New Fields	ENG	Room 4 (3F	

KOR Korean **ENG** English **KOR→ENG** KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) 12:40-13:30 **Industry Symposium 1 Room 2 (3F)** Sponsored by KOR **AstraZeneca** Chair(s) Jae Hyun Chang Gachon University Gil Medical Center, Korea Jong Hyun Jhee SGLT2 Inhibitors Breakthrough in CKD Treatment and Management Gangnam Severance Hospital, Korea 12:40-13:30 Industry Symposium 2 Sponsored by Room 4 (3F) KOR **astellas Chair(s) Jong Soo Lee Ulsan University Hospital, Korea Woo Yeong Park The Optimal Tacrolimus Level Safe from Nephrotoxicity and Infection Keimyung University School of Medicine, Keimyung University Kidney Institute, Korea **Biq Data** 13:30-15:30 Room 1 (5F) Observational Data Modeling for Causal Effects: When and KOR↔ENG How to Use Them? Tae Ik Chang National Health Insurance Service Ilsan Hospital, Korea Chair(s) Gang Jee Ko Korea University Guro Hospital, Korea Sohee Park Propensity Score Matching Yonsei University Graduate School of Public Health, Korea **Hvun Sun Lim** Marginal Structural Models National Health Insurance Service Ilsan Hospital, Korea Mendelian Randomization Study: An Analytic Tool to Investigate Causal Effects with Sehoon Park Observational Data Seoul National University Hospital **Hypertension and Vascular Biology** 13:30-15:30 KOR↔ENG **Room 2 (3F)** Innovations in BP Target Soo Wan Kim Chonnam National University Medical School, Korea Chair(s) Asan Medical Center, University of Ulsan College of Medicine, Korea Hyosang Kim

Detailed Program

Longitudinal BP Trajectory and CKD Progression

Cumulative Hypertension Burden and Renal Outcome

KDIGO Target for Systolic BP in CKD of < 120mmHg - Pro

KDIGO Target for Systolic BP in CKD of < 120mmHg - Con

13:40-16:40	Pathology		KOR↔ENG	Room 3 (3F)
Chair(s)	Yeong-Jin Choi Beom Jin Lim	The Catholic University of Korea, Seoul St. Mary's Hospital, Korea Gangnam Severance Hospital, Korea		
LgA Nephropa	LgA Nephropathy to IgA Nephropathy		Yong-Jin Kim Kyungpook Nationa Korea	l University Hospital,
Aristolochic Ac	Aristolochic Acid Nephropathy		Gang Liu Peking University, 0	China

Young Su Joo

Chang Seong Kim

Jwa-Kyung Kim

Yang Gyun Kim

Gangdong, Korea

Korea

Yongin Severance Hospital, Korea

Chonnam National University Hospital,

Hallym University Sacred Heart Hospital,

Kyung Hee University Hospital at

KOR Korean ENG English KOR→ENG KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) Yo Han Ahn **Pediatrics** Seoul National University Hospital, Korea CPC 1 Clinical Discussion Korea Disease Control and Prevention Agency, Korea **Kyung Chul Moon** Pathology Seoul National University Hospital, Korea Tae-Hyun Yoo Internal Medicine Yonsei University College of Medicine, Korea CPC 2 Jung Eun Lee Clinical Discussion Samsung Medical Center, Korea Beom Jin Lim Pathology Gangnam Severance Hospital, Korea Hyosang Kim Internal Medicine Asan Medical Center, University of Ulsan College of Medicine, Korea Yang Gyun Kim CPC 3 Clinical Discussion Kyung Hee University Hospital at Gangdong, Korea Heounjeong Go **Pathology** Asan Medical Center, University of Ulsan College of Medicine, Korea **Oral Communication 3** 13:30-15:30 Room 4 (3F) ENG Glomerulonephritis Yu Ho Lee Bundang CHA General Hospital, Korea Chair(s) **Hyeon Seok Hwang** Kyung Hee University School of Medicine, Korea OC3-01 ~ OC3-12 15:40-17:40 **Asian Nephrology Forum** KOR↔ENG Room 1 (5F) Suchai Sritippayawan Siriraj Hospital, Mahidol University, Thailand Chair(s) **Halim Adbul Gafor** Universiti Kebangsaan Malaysia, Malaysia Yang Wook Kim Inje University Haeundae Paik Hospital, Korea Young Rok Ham Increasing of ESRD in Asia Chungnam National University Hospital, Korea Pongsathorn Gojaseni Effectiveness of Multidisciplinary care in CKD management Bhumibol Adulyadej Hospital, Thailand Lilv Mushahar Challenges and Future Opportunities of PD in Asia Hospital Tuanku Ja'afar, Malaysia Jong Cheol Jeong Do Asian Kidney Transplant Recipients Need Different Target Level of Maintenance Seoul National University Bundang Immunosuppressants? Hospital, Korea 17:50-18:00 **Opening Remarks** KOR↔ENG Room 2+3 (3F) 18:00-18:50 **Plenary Lecture 1** Room 2+3 (3F) KOR↔ENG Chair(s) Yang Wook Kim Inje University Haeundae Paik Hospital, Korea Peter Stenvinkel Food as a Medicine in CKD

Detailed Program

Karolinska Institutet and Karolinska University Hospital, Sweden

	Day 2 May 27 (Friday)		
08:30-10:30	Acute Kidney Injury 1	KOR↔ENG	Room 1 (5F
Chair(s)	Manish Kaushik Dong Won Lee SingHealth – MED, Singapore Pusan National University Yangsan Hospital, Korea		
Clinical Course	of AKI in Elderly Patients	Se Won Oh Korea University Anam Hospital, Korea	
AKI in Patients	with COVID-19	Jeong-Hoon Lim Kyungpook National University Chilgok Hospital, Korea	
Novel Anticano	er Drugs and Antibiotics Associated with Acute Kidney Injury	Inwhee Park Ajou University Hos	pital, Korea
Clinical Inform	atics and Risk Prediction of AKI	Horng Ruey Chu National University Singapore	
08:30-10:30	Chronic Kidney Disease 1 <i>Gut, Diet and Kidney Disease</i>	KOR↔ENG	Room 2 (3F
Chair(s)	Myung-Gyu Kim Korea University Anam Hospital, Korea Won Min Hwang College of Medicine, Konyang University, Korea		
Glomerular Hyperfiltration and High Protein Nephropathy		Kamyar Kalantar-Zadeh University of California Irvine, United States	
The Association Between Gut Microbiota and Uremia of Chronic Kidney Disease		Myung-Gyu Kim Korea University Anam Hospital, Korea	
Targeting Imm	une Cell Metabolism in Kidney Diseases	Niels Olsen Saraiva Ĉamara Federal University of Sao Paulo, Brazil	
Blood Pressur	e Variability in CKD	Sang Heon Suh Chonnam National University Hospital, Korea	
08:30-10:30	KSN-EDTA Joint Symposium Recent Advances in Kidney Disease	KOR↔ENG	Room 3 (3F
Chair(s)	Danilo Filser Saarland University College of Medicine, Germany Beom Seok Kim Severance Hospital, Korea		
Anemia and Ch	CD-MBD Interaction	Michele Eisenga University of Groningen, Netherlands	
Anemia and the Heart in CKD		Hoon Young Choi Gangnam Severance Hospital, Korea	
scRNA Sequen	cing of the Kidney and the Heart	Christoph Kuppe RWTH Aachen University, Germany	
Current Status of Exosomal Research and Its Clinical Implication in Kidney Disease		Sang Ho Lee Kyung Hee University Hospital at Gangdong, Korea	

KOR Korean **ENG** English **KOR→ENG** KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) **Becoming a New Basic Researcher Room 4 (3F)** 08:30-10:30 **KOR** Keimyung University School of Medicine, Korea Seungyeup Han Chair(s) Su-Hyun Kim Chung-Ang University Hospital, Korea Seon Ha Baek Challenge on a National Research Foundation Project Hallym University Dongtan Sacred Heart : Multi-Center, Randomized Controlled Trials in Nephrology Hospital, Korea Jang-Hee Cho Preparing for Nephrology Research Kyungpook National University Hospital, Korea Eun Hui Bae The Snowball Effect: From a Study to a Big Investigation Chonnam National University Medical School, Korea Sang-kyung Jo How to Set Up a Good Research Lab Korea University Anam Hospital, Korea **HK-KSN Joint Symposium** 10:40-12:40 **Room 1 (5F)** KOR↔ENG Acute Kidney Injury 2 Won Kim Jeonbuk National University Medical School, Korea Chair(s) Sunny Wong Hong Kong Society of Nephrology, Hong Kong Seioona Kim Organ on a Chip in AKI Seoul National University Bundang Hospital, Korea Seung Seok Han VISTA of Kidney Macrophage in Acute Kidney Injury Seoul National University Hospital, Korea Beniamin So A New Paradigm for an Old Disease Queen Mary Hospital, The University of Hong Kong, Hong Kong Pang Wing Fai From Microscopic to Macroscopic View Prince of Wales Hospital, The Chinese University of Hong Kong, Hong Kong **Diabetic Kidney Disease** 10:40-12:40 **Room 2 (3F)** Recent Research Data in the Pathogenesis of the Diabetic KOR↔ENG Kidney Disease Sang-Youb Han Inje University Ilsan Paik Hospital, Korea Chair(s) Soonchunhyang University Cheonan Hospital, Korea **Eun Young Lee** Shinji Kume Ketone Bodies: Back to a Place in the Sun Shiga University of Medical Science, Japan Yong-Ho Lee New Insights on Diabetic Kidney Disease-Ketone Bodies Yonsei University College of Medicine John He Single Cell RNA-Sequencing to Analyze the Role of Macrophage in Early Diabetic Kidney

Single Cell Transcriptome of the Diabetic Kidney Reveals Dynamic Reprogramming

Underlying Podocyte Regeneration and Injury

Detailed Program

Disease

United States

Ju Young Moon

Gangdong, Korea

Icahn School of Medicine at Mount Sinai,

Kyung Hee University Hospital at

10:40-12:40	Basic Resea Autophagy and	I rch I Genetic Kidney Diseases	KOR↔ENG	Room 3 (3F
Chair(s)	Tae-Hwan Kwon Jihwan Park	Kyungpook National University School of Medicine, Kor Gwangju Institute of Science and Technology, Korea	ea	
Autophagy in R	Regulation of Aquap	orins	Weidong Wang Sun Yat-sen Univ	
Genetic Kidney	/ Disease and Kidne	y Organoids	Yong Kyun Kim The Catholic Univ Vincent's Hospita	ersity of Korea, St.
Role of KLC3 o	f CILK1 Deficiency-	Related PKD	Jong Hoon Par Sookmyung Wom	k nen's University, Korea
ADAMTS9-Rel	ated Renal Disorde	rs and Disease Modeling	Heon Yung Gee Yonsei University Korea	College of Medicine,
10:40-12:40	Oral Commu <i>Pediatric/Geria</i>		ENG	Room 4 (31
Chair(s)	Min Hyun Cho Soon Kil Kwon	Kyungpook National University Hospital, Korea Chungbuk National University College of Medicine, Kor	ea	
0C4-01 ~ 0C4-	12			
12:40-13:30	Industry Syr	nposium 3 Sponsored by YUHAN	KOR	Room 1 (51
Chair(s)	Kwon Wook Joo	Seoul National University Hospital, Korea		
Kidney Protect	tion with SGLT2 Inh	ibition: Nephrology Perspective	David Z. Chern Toronto General I	
12:40-13:30	Industry Syr	nposium 4 Sponsored by HANDOK	KOR	Room 2 (3)
Chair(s)	Ja-Ryong Koo	Hallym University Dongtan Sacred Heart Hospital, Kore	a	
Patient's Journ	ney of aHUS: Based	on Center Experiences	Chang Seong K Chonnam Nation Korea	(im al University Hospital,
12:40-13:30	Industry Syr	nposium 5 Sponsored by Gyowa KIRIN	KOR	Room 3 (3)
Chair(s)	Sun Ae Yoon	The Catholic University of Korea, Uijeongbu St. Mary's H	Hospital, Korea	
Anemia Manag	ement with NESP f	or CKD Patients	Byung Chul Yu Soonchunhyang l Hospital, Korea	Jniversity Bucheon
12:40-13:30	Industry Syr	nposium 6 Sponsored by Neharmaceutical	KOR	Room 4 (3)
Chair(s)	Byoung Geun Ha	n Yonsei University Wonju College of Medicine, Korea		
Cutting Edge C	are of Pitavastatin	with Ezetimibe Combination Therapy	Soo Lim Seoul National U Hospital, Korea	niversity Bundang

13:40-14:30	Plenary Lecture 2 Best Abstracts	KOR↔ENG	Room 2+3+4 (3F)
Chair(s)	Chun Soo Lim Seung Hyeok Han Severance Hospital, Korea		
	Post-dilution Online Hemodialfiltration and Medium Cut-off Dialyser on Protein-Bound Uremic Toxins	Yang Gyun Kim Kyung Hee University Hospital at Gangdong, Korea	
•	of New Human-Derived Induced Pluripotent Stem Cell Systems (iPSC) g Discovery for Kidney Diseases	Maximilian Naujock Evotec International GmbH, Germany	
Diagnostic Util Genetic Glome	ity of the Targeted Next-Generation Sequencing Panel Test for Suspicious rular Diseases	Ji Hye Kim Seoul National Univ Korea	versity Hospital,
	abetes in Morbidly Obese Patients on Circulating Exosomal Protein and After Bariatric Surgery	Haekyung Lee Soonchunhyang Un Hospital, Korea	iversity Seoul
14:40-16:40	Kidney Transplantation 1 Strategies for Improving Long Term Graft Survival	KOR→ENG Room 1	
Chair(s)	Jong Soo Lee Jaeseok Yang Ulsan University Hospital, Korea Severance Hospital, Korea		
HLA Matching	& Eplet Load	Ruth Sapir-Pichhazde McGill University, Canada	
Surveillance B	iopsies in Kidney Transplantation	David Rush Health Sciences Ce Manitoba, Canada	ntre, University of
DSA Monitorin	g & Treatment of Chr Active Ab Mediated Rejection	Byungha Chung The Catholic Univer	sity of Korea, Korea
Discussion		Gyu Tae Shin Ajou University Hos Jaeseok Yang Severance Hospital Byungha Chung The Catholic Univer	
14:40-16:40	Chronic Kidney Disease 2	KOR↔ENG	Room 2 (3F
Chair(s)	Duk-Hee Kang Soo Jeong Choi Ewha Womans University Medical Center, Korea Soonchunhyang University Bucheon Hospital, Korea		
	nd Preservative Approaches for the Management of CKD; Novel Dietary eatment Approaches	Connie Rhee University of California Irvine, United States	
Real World Da	a and Evidence: The Japan Chronic Kidney Disease Database	Yuichiro Yano Shiga University of Japan	Medical Science,
Socioeconomic	Status: A Factor Need to Be Considered in CKD Management	Eunjeong Kang Ewha Womans Univ Center, Korea	versity Medical
Causality Betw Analysis	een Risk Factors and CKD Inferred from Mendelian Randomization	Dong Ki Kim Seoul National Univ	ersity Hospital,

14:40-16:00	Award Session	on	KOR↔ENG	Room 3 (3F)
MC	Gang Jee Ko	Korea University Guro Hospital, Korea		
Chair(s)	Chul Woo Yang Kyu Bok Choi	The Catholic University of Korea, Seoul St. Mary's Hospital, Korea Ewha Womans University Mokdong Hospital, Korea		
Award Ceremo	ony			
KSN Academic	Excellence Award V	Vinner Lecture	Hajeong Lee Seoul National Univ Korea	ersity Hospital,
KSN Young Inv	estigator Award Win	ner Lecture	Jeong-Hoon Lim Kyungpook Nationa Korea	l University Chilgok,
KSN Lifetime A	Achievement Award (Ceremony Remarks	Gheun-Ho Kim Hanyang University Korea	Medical Center,
14:40-16:40	Oral Commur <i>Transplantation</i>		ENG	Room 4 (3F
Chair(s)	Jong Cheol Jeong Jang-Hee Cho	Seoul National University Bundang Hospital, Korea Kyungpook National University Hospital, Korea		
0C5-01 ~ 0C5-	12			
16:50-18:50	Kidney Trans The Spectrum of	plantation 2 of Transplant Nephrologist in Asia	KOR↔ENG	Room 1 (5F
Chair(s)	Yeong Hoon Kim Chan-Duck Kim	Inje University Busan Paik Hospital, Korea Kyungpook National University Hospital, Korea		
Roles and Resp Thailand	oonsibilities of Neph	rologists at Pre-transplant Period: Current State in	Nuttasith Larppa Mahidol University,	
Management a State in Taiwar		nt and Immediate Post-transplant Period: Current	Ming-Ju Wu Taichung VGH, Taiw	an
Management a	t the Long-Term Pos	st-transplant Period: Current State in Japan	Ken Sakai Toho University, Jap	an
Safety and Foll	ow-up of Living Don	or	Hye Ryoun Jang Sungkyunkwan Uni	versity, Korea
Discussion			Seungyeup Han Keimyung Universit Korea Jong Cheol Jeon Seoul National Univ Hospital, Korea Ho Sik Shin	

16:50-18:50	KSN Researc	h Fund Project	KOR↔ENG	Room 2 (3F)
Chair(s)	Bum Soon Choi Hyung Jong Kim	The Catholic University of Korea, Eunpyeong St. Mary's Hospital, Kor Bundang CHA General Hospital, Korea	rea	
Development o Tubulopathies	of Urine-derived Kidi	ney Tubuloid from Patients with Inherited	Ji Hyun Kim Seoul National Univ Hospital, Korea	versity Bundang
Prediction of D	eath in Dialysis Patio	ents Using Artificial Intelligence	Jung Nam An Hallym University S Korea	acred Heart Hospital,
T-lymphocytes	in Alport Syndrome	Tae Ryom Oh Chonnam National Korea	University Hospital,	
The Efficacy an	nd Safety of SGLT2 In	hibitors in Diabetic Kidney Transplant Recipients	Jeong-Hoon Lim Kyungpook Nationa Hospital, Korea	l University Chilgok
Disease Model Pluripotent Ste		Interstitial Nephritis Using Patient Derived Induced	Sun-Woo Lim The Catholic Univer St. Mary's Hospital,	
16:50-18:50	R&D in Nephi	rology	KOR↔ENG	Room 3 (3F)
Chair(s)	Hyun Hee Na Ju Young Moon	Life Science Korea, Korea Kyung Hee University Hospital at Gangdong, Korea		
C01 Inhibits the	e Development of Kid	lney Fibrosis	Hoe-Yune Jung NovMetaPharma Co University of Science	., Ltd. / Pohang and Technology, Korea
	ıritus in Adults Patie	gent for the Treatment of Chronic Kidney Disease- nts Receiving Hemodialysis: Results From Kalm 1	Warren Wen Cara Therapeutics	Inc, United States
Clinical Develo	pment of Efpeglenat	ide	Seungjae Baek Hanmi Pharmaceuticals, Korea	
Rgenorgano Bi	iothechnology		Yong Kyun Kim The Catholic Univer Vincent's Hospital,	*
		Day 3 May 28 (Saturday)		
08:30-10:30	Hemodialysis <i>Update on Trou</i>	S 1 bling Medical Issues in HD Patients	KOR↔ENG	Room 1 (5F)
Chair(s)	Young Ok Kim Eunsil Koh	The Catholic University of Korea, Uijeongbu St. Mary's Hospital, Korea The Catholic University of Korea, Yeouido St. Mary's Hospital, Korea	ea	
Uptodate Revie	ew of the Manageme	nt of Diabetes in Hemodialysis Patients	Eunsil Koh The Catholic Univer St. Mary's Hospital,	sity of Korea, Yeouido Korea
Uptodate Revie Management	ew of Intradialytic Hy	potension - Mechanism, Clinical Impacts and	Woo Yeong Park Keimyung University Keimyung University	
Uptodate Review of Restless Legs Syndrome - Mechanism, Clinical Impacts and Management			Hyo-Wook Gil Soonchunhyang University Cheonan Hospital, Korea	
Untodate Revie	ew of Antithrombotic	Therapy for Hemodialysis Patients with Atrial	Young Rim Song	acred Heart Hospital,

08:30-10:30	Peritoneal D Current Topics		KOR↔ENG	Room 2 (3F
Chair(s)	Yong-Lim Kim Jun Young Do	Kyungpook National University School of Medicine, Korea Yeungnam University Medical Center, Korea		
KDIGO Recomr	nendations for Hom	ne Dialysis	Martin Wilkie Sheffield Kidney Ins Kingdom	stitute, United
PDOPPS Korea	and Global		Kook-Hwan Oh Seoul National Univ Korea	ersity Hospital,
Incremental PI	D	Wonsuk An Dong-A University H	Hospital, Korea	
Malnutrition in	PD		Seok Hui Kang Yeungnam Universi Korea	ty Medical Center,
08:30-10:30 KSN-ISN Joint Symposium A New Approach to Kidney Research			KOR↔ENG	Room 3 (3F
Chair(s)	Beom Seok Kim Sang Heon Song	Severance Hospital, Korea Pusan National University Hospital, Korea		
High Protein D	iet-Induced Glomer	ular Hyperfiltration	Gang Jee Ko Korea University Gu	ro Hospital, Korea
Clinical Dilemr	nas in Heart Failure	and CKD Management	Sunita Bavanand Hospital Kuala Lum	
Transform, Op	timization of Anima	l Studies to Develop New Drugs	Masaomi Nangal The University of To of Medicine, Japan	(u kyo Graduate School
Single Cell Res	earch Update in Kid	dney Disease	Jihwan Park Gwangju Institute o Technology, Korea	f Science and
08:30-10:30	Oral Commu <i>Chronic Kidney</i>		ENG	Room 4 (3F
Chair(s)	Ju Young Moon Sang-Woong Har	Kyung Hee University Hospital at Gangdong, Korea Hanyang University Guri Hospital, Korea		
0C6-01 ~ 0C6-	12			
10:40-12:40	JSN-KSN JO Hemodialysis 2	int Symposium ?	KOR↔ENG	Room 1 (5F
Chair(s)		ark Gangnam Severance Hospital, Korea awa Tokai University School of Medicine, Japan		
Impact of Sarco	openia on Mortality	in Patients Undergoing Hemodialysis	Jong Hyun Jhee Gangnam Severand	e Hospital, Korea
National Qualit	y Control of Hemod	ialysis in Korea; A Small Carrot and a Big Stick	Soon Kil Kwon Chungbuk National Medicine, Korea	University College o
Effect of Dialys Hemodialysis F	•	nic Inflammation and Oxidative Stress in Maintenance	Minoru Satoh Japan Organization Health and Safety K Japan	of Occupational obe Rosai Hospital,

KOR Korean ENG English KOR→ENG KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) **Genetic Disease** 10:40-12:40 **Room 2 (3F)** KOR↔ENG Conundrum of Thrombotic Microangiopathy Korea University Guro Hospital, Korea Young Joo Kwon Chair(s) Hee Gyung Kang Seoul National University Hospital, Korea Jinseok Kim Overview of Thrombotic Microangiopathy Including COVID-19 Severance Hospital, Korea Myung Hyun Cho Cytopathology in STEC/EHEC-HUS Hallym University Sacred Heart Hospital, Korea Myung-Gyu Kim Complementopathy in Atypical HUS/C3 Glomerulopathy Korea University Anam Hospital, Korea Fadi Fakhouri Clinical Use of Eculizumab and Ravulizumab Nantes University Hospital Center, France **KSN-TSN-JSDT Joint Symposium** 10:40-12:40 **Room 3 (3F)** KOR↔ENG Acute Kidney Injury I-Wen Wu Chang Gung Memorial Hospital, Taiwan Chair(s) Nobuhito Hirawa Yokohama City University, Japan Sang-kyung Jo Korea University Anam Hospital, Korea Jungho Shin A Long Journey for Acute Kidney Injury Biomarkers Chung-Ang University College of Medicine, Korea Chih-Hsiang Chang Using Computer Science to Assist AKI Care - from E-alert to Artificial Intelligence Chang Gung Memorial Hospital, Taiwan Prevention and Treatment of Acute Kidney Injury From the Viewpoint of Renal Masanori Abe Nihon University, Japan Congestion Seonghun Kim Therapeutic Exosomes for Acute Kidney Injury Yonsei University College of Dentistry, MET Life Sciences Co., Ltd., Korea Euturo Modicino

10:40-12:40	10:40-12:40 Future medicine Hot Issue: Al in Nephrology			Room 4 (3F)
Chair(s)	Hyeon Seok Hwang Hajeong Lee	Kyung Hee University School of Medicine, Korea Seoul National University Hospital, Korea		
Al Application	Al Application in Renal Pathology			nter, University of Ulsan ine, Korea
Expert-Level	Segmentation Using De	ep Learning for Volumetry of ADPKD	Kyong Tae Bac University of Pitt	sburgh, United States
Building Risk	Building Risk Prediction Models in Acute Kidney Injury		Ji-Won Min The Catholic University of Korea, Bucheon St. Mary's Hospital, Korea	
Al Application	Al Application to Improve Hemodialysis Adequacy		Hyung Woo Kim Severance Hospital, Korea	

KOR Korean **ENG** English **KOR→ENG** KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) FRESENIUS MEDICAL CARE 12:40-13:30 Industry Symposium 7 Sponsored by **Room 2 (3F) KOR** Gheun-Ho Kim Chair(s) Hanyang University Medical Center, Korea How to Initiate, Prescribe and Maintain High Volume HDF: Practical Simple Approach Mi Jung Lee with 5008S CHA University, Korea 12:40-13:30 **Industry Symposium 8** Sponsored by Room 3 (3F) KOR Baxter Chair(s) Kwon Wook Joo Seoul National University Hospital, Korea Expanded HD: Closer Look at Clinical Effectiveness, Patient Reported and Health **Hoon Young Choi Economic Outcomes** Gangnam Severance Hospital, Korea 12:40-13:30 **Industry Symposium 9 Room 4 (3F)** Sponsored by BORYUNG KOR Chair(s) Inje University Ilsan Paik Hospital, Korea Sang-Youb Han Ji-Won Min Achieving Target blood pressure with triple-combination therapy, Dukarb Plus The Catholic University of Korea, Bucheon St. Mary's Hospital, Korea **General Assembly** 13:30-14:00 **KOR Room 1 (5F)** Room **Plenary Lecture 3** 14:00-14:50 KOR↔ENG 2+3+4 (3F) Chair(s) Chun Soo Lim SMG-SNU Boramae Medical Center, Korea Masaomi Nangaku Oxygen Biology in the Kidney The University of Tokyo Graduate School of Medicine, Japan Fluid and Electrolyte 15:00-17:00 **Room 1 (5F)** KOR↔ENG Critical Care of Fluid-Electrolyte Disorders Kwon Wook Joo Seoul National University Hospital, Korea Chair(s) Eun Hui Bae Chonnam National University Medical School, Korea Sung Yoon Lim How to Assess Volume Status in Critically Ill Patients Seoul National University Bundang Hospital, Korea Hve Ju Yeo Fluid Versus Vasopressor Therapy in Resuscitation Pusan National University Yangsan Hospital, Korea

Detailed Program

Electrolyte Disturbances in the Neuro ICU

Approaches to Acid-base Disorders: Traditional Versus Stewart

Jeonghwan Lee

Sungjin Chung

St. Mary's Hospital, Korea

Korea

SMG-SNU Boramae Medical Center,

The Catholic University of Korea Yeouido

15:00-17:00	Pediatric Nep <i>Nephrotic Syndi</i>	hrology rome, from Childhood to Adulthood	KOR↔ENG	Room 2 (3F)
Chair(s)	Hee Gyung Kang Tae-Sun Ha	Seoul National University Hospital, Korea Chungbuk National University College of Medicine, Korea		
Optimizing the	Corticosteroid Dose	Martin Christian Nottingham University Hospital, Uni Kingdom		
Nephrotic Synd	Irome Requiring Oth	er than Steroid; Coenzyme Q10 Nephropathy	Eujin Park Hallym University Co Korea	ollege of Medicine,
What We Learned from Nephrotic Syndrome Registry Studies and Its Implication for Treatment			Susan Samuel University of Calgary	/, Canada
Childhood-nep	hrotic Syndrome in A	Jin-Soon Suh The Catholic University of Korea, Bucheon St. Mary's Hospital, Korea		
15:00-17:00	APSN-KSN CI New Drugs in N		KOR→ENG Room	
Chair(s)	Muh Geot Wong Hye Eun Yoon	University of Sydney, Australia The Catholic University of Korea, Incheon St. Mary's Hospital, Korea	a	
Clinical Consideration in Using SGLT-2 Inhibitors			Meg Jardine University of Sydney, Australia	
Clinical Consid	eration in Using MRA	as	Yaerim Kim Keimyung University Korea	/ School of Medicine,
Pleotropic Effe	cts of HIF-PHIs, Are	There Clinical Relevant	Yu-Hsiang Chou National Taiwan Uni	versity, Taiwan
Renoprotective	Effect of ET Inhibito	r	Se Won Oh Korea University Anam Hospital, Korea	
15:00-18:00	KDIGO-KSN Jo Anemia in CKD	oint Symposium	ENG	Room 4 (3F
Chair(s)	Sung Gyun Kim Kyung Pyo Kang	Hallym University Sacred Heart Hospital, Korea Jeonbuk National University Medical School, Korea		
The Evolution o	f Evidence Generation	on in CKD-Anemia: A History of Agents and Trial	Wolfgang Winkelmayer Baylor College of Medicine, United States	
Anemia in Chro	nic Kidney Disease F	Patients: Result From the Know-CKD	Kook-Hwan Oh Seoul National University Hospital, Korea	
HIF-PHI Trials in CKD Non-dialysis and Dialysis: What Do the Data Really Show?			David Wheeler University College London, United Kingdom	
Appropriate Us	e of HIF-PH inhibitor	r in Korean with CKD	Sung Gyun Kim Hallym University Sa Korea	acred Heart Hospital,
The Evolving Ro	oles of Iron Treatme	nt, ESAs, and HIF-PHIs Towards Successful Anemia	Elaine Ku University of Califord United States	nia, San Francisco,
Treatment of A	nemia: Bevond Fryth	nropoietin in Korea 2022	Jong Hyun Jhee Gangnam Severance	

KOR Korean **ENG** English **KOR→ENG** KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) **Geriatric Nephrology** 17:10-19:10 Room 1 (5F) KOR↔ENG What is Aging? One Step Closer to the Super-Aged Society Soonchunhyang University College of Medicine, Korea Soon Hyo Kwon Chair(s) Sung Joon Shin Dongguk University Ilsan Hospital, Korea Hidenori Arai What Is Aging?; Is Aging a Natural Condition or a Disease? National Center for Geriatrics and Gerontology, Japan Seo Rin Kim Aging and Kidney Disease Pusan National University Yangsan Hospital, Korea Eun-Soo Kwon Recent Researches on Anti-aging Interventions Korea Research Institute of Bioscience and Biotechnology, Korea Reshma A. Merchant Medical Service for Healthy Aging National University Hospital, Singapore **Glomerulonephritis** 17:10-19:10 **Room 2 (3F)** KOR↔ENG Beyond the KDIGO 2021 CPG for the Management of Glomerular Diseases Eun Young Seong Pusan National University School of Medicine, Korea Chair(s) Kyeog Hwan Jeong Kyung Hee University Medical Center, Korea Jonathan Barratt The Key Advances in the Pathogenesis of IgA Nephropathy University of Leicester, United Kingdom The Key Updates in the 2021 KDIGO Guideline for IgA Nephropathy and New Therapies in Hong Zhang for IgA Nephropathy Peking University First Hospital, China Chang Hee Suh Beyond Mycophenolate and Cyclophosphamide for Lupus Nephritis Ajou University Hospital, Korea Seung Seok Han New Pathophysiology and Clinical Approach in Tubulointerstitial Nephritis Seoul National University Hospital, **APSN-KSN CME Course 2** 17:10-19:10 **Room 3 (3F)** KOR↔ENG Advances in Glomerulonephritis Hyeong-Cheon Park Gangnam Severance Hospital, Korea Chair(s) Ho Jun Chin Seoul National University Bundang Hospital, Korea Tae Ryom Oh Advances in IgAN Chonnam National University Hospital, Korea Vivek Jha Advances in Membranous Nephropathy The George Institute for Global Health, India **Eunjeong Kang**

Detailed Program

Advances in aHUS/TMA

Advances in Lupus Nephritis

Ewha Womans University Medical

Center, Korea

Kah Mean Thong

Hospital Ipoh, Malaysia

Detailed Program

KOR Korean EN	IG English KOR↔	ENG KOR/ENG Simultaneous Interpretation Plenary	y Lecture & Official Program	Oral Communication (Englis
		Day 4 May 29 (Sunday	y)	
08:30-10:30	Nephrology <i>ESRD, Dialysis</i>	Board Review Course 1	KOR	Room 1 (5F)
Chair(s)	Seungyeup Han	Keimyung University School of Medicine, Korea		
Dialysis Adequ	acy Update (HD/PI	Adequacy)	Kyubok Jin Keimyung Universi Center, Korea	ty Dongsan Medical
Management o	f Secondary Hyper	parathyroidism in Dialysis Patients: Case Oriento	ed Yu Ho Lee Bundang CHA Gen	eral Hospital, Korea
30 Incrementa	l, Hybrid, and Exte	nded Dialysis	Hyo-Wook Gil Soonchunhyang Ur Hospital, Korea	iversity Cheonan
Anemia Manag	ement in Dialysis I	Patients: Target Ferritin and Hemoglobin	Seo Rin Kim Pusan National Un Hospital, Korea	iversity Yangsan
08:30-10:30		ecialist Physician Course 1 logist Should Know about Kidney Transplan	ntation KOR	Room 2 (3F)
Chair(s)	Rho Won Chun	전로원 내과의원, Korea		
Education on K	idney Transplanta	tion for Patients Initiating Dialysis	Hajeong Lee Seoul National Univ	ersity Hospital, Korea
Donor Evaluati	on and Follow Up i	n Kidney Transplantation	Ji Eun Kim Korea University G	uro Hospital, Korea
Recipient Evalu	uation and Follow l	Jp in Kidney Transplantation	Hyeon Seok Hwa Kyung Hee University	ang School of Medicine, Korea
Management o	f Patients with a Fa	iled Kidney Transplant	Do Hyoung Kim Kangnam Sacred H	leart Hospital, Korea
08:30-10:30	Dialysis Nu	se Course 1	KOR	Room 3 (3F)
Chair(s)	Young-Ki Lee Jinhee Han	Kangnam Sacred Heart Hospital, Korea Asan Medical Center, University of Ulsan College of N	Medicine, Korea	
복막투석 담당 간	호사의 역할 (복막투4	석 재택관리사업)	Young-Ki Lee Kangnam Sacred H	leart Hospital, Korea
Basic Principle	s of Peritoneal Dia	lysis	Hyo Jin Kim Pusan National Uni	versity Hospital, Korea
Management o	f Fluid and Electro	lyte Disturbances in Peritoneal Dialysis Patients	Kyeong Min Kim Eulji University Hos	
Management o	f Complications of	Peritoneal Dialysis	Haeri Kim Chungnam Nationa Hospital, Korea	al University Sejong

KOR Korean **ENG** English **KOR→ENG** KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) **KSN-KSH Joint Symposium** 08:30-10:30 **Room 4 (3F) KOR** Intensive BP Control and Kidney in the Era of SPRINT Jinho Shin Hanyang University Medical Center, Korea Chair(s) Chul Woo Yang The Catholic University of Korea, Seoul St. Mary's Hospital, Korea Hack-Lyoung Kim Impact of Intensive BP Lowering on Cardiovascular and Renal Outcomes SMG-SNU Boramae Medical Center, Korea Seung Hyeok Han Updated Guidelines on Blood Pressure Control in Patients with Kidney Diseases Severance Hospital, Korea Sung Ha Park Out-Of-Office BP Corresponding to 120 mmHg in Intensive BP Control Severance Hospital, Korea **Eunsil Koh** Masked Uncontrolled Hypertension in CKD in Intensive BP Control The Catholic University of Korea, Yeouido St. Mary's Hospital, Korea

Detailed Program

		St. Mai y S nospi	iai, Norea
10:40-12:40	Nephrology Board Review Course 2 ESRD, Dialysis	KOR	Room 1 (5F)
Chair(s)	Seong Eun Kim Dong-A University Hospital, Korea		
Clinical Implication	ations and Prescriptions of On-Line HDF	Jin Sug Kim Kyung Hee Univer	sity Medical Center, Korea
Prescription of	f Automated Peritoneal Dialysis	Kyung Pyo Ka Jeonbuk Nationa School, Korea	ng al University Medical
Evaluation and	l Management of Av Access as a Nephrologist	Hyung Seok L Hallym Universit Korea	ee y Sacred Heart Hospital,
Non-infectious	Peritoneal Dialysis Complications	Kyung Sun Pa Ulsan University	
10:40-12:40	Dialysis Specialist Physician Course 2 <i>Miscellaneous Issues in Hemodialysis Patients</i>	KOR	Room 2 (3F)
Chair(s)	Seung Hwan Sohn Dr. Sohn's Hemodialysis Center, Korea		
Artery Disease	in ESRD Patients: Central / Peripheral	Sang Min Kim Chungbuk Natio Korea	nal University Hospital,
CKD-MBD Mar	nagement: Fracture Risk Evaluation & Intervention	Jang Han Lee Bundang Jesaer Korea	ng General Hospital,
Blood Pressur	e in CKD/ESRD: 2021 Update	Hye Min Choi Myongji Hospital	, Korea
Iron Treatmen	t in CKD/ESRD Patients	Jae Yoon Park Dongguk Univer Korea	sity Ilsan Hospital,

KOR Korean ENG English KOR→ENG KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) 10:40-12:40 **Dialysis Nurse Course 2 Room 3 (3F) KOR** Joon Ho Song Inha University Hospital, Korea Chair(s) Seon Ho Ahn Wonkwang University School of Medicine, Korea Samel Park **Dialysis Water Quality Control** Soonchunhyang University College of Medicine, Korea Hyeongwan Kim Jeonbuk National University Hospital, **Nutritional Support in HD Patients** Korea Jin Joo Cha Management of CKD-MBD Korea University Ansan Hospital, Korea Hvon-Seung Yi Management of Osteoporosis in HD Patients Chungnam National University Hospital, 10:40-12:40 **KSN-KES Joint Symposium** Room 4 (3F) KOR Ajou University School of Medicine, Korea Yoon Sok Chung Chair(s) Bundang CHA General Hospital, Korea So-Young Lee Yoon Young Cho 갑상선질환의 진단과 치료의 최신지견 Soonchunhyang University College of Medicine, Korea Jung Soo Lim Primary Aldosteronism 진단과 치료의 최신지견 Yonsei University Wonju College of Medicine, Korea So-Young Lee Dyslipidemia Treatment in CKD Bundang CHA General Hospital, Korea Kipyo Kim Osteoporosis Treatment in CKD Inha University Hospital, Korea 12:40-13:30 Industry Symposium 10 Sponsored by **Room 2 (3F) KOR SK** chemicals Chair(s) Jung Pyo Lee Seoul National University College of Medicine, Korea Hve One Kim 투석화자의 가려움증 치료 Kangnam Sacred Heart Hospital **Industry Symposium 11** Sponsored by **Room 3 (3F)** 12:40-13:30 KOR Chair(s) Yun Kyu Oh SMG-SNU Boramae Medical Center, Korea Hayne Cho Park 다낭신의 진단 및 치료: 선별검사부터 톨밥탄 치료까지 Kangnam Sacred Heart Hospital inno.N 12:40-13:30 **Industry Symposium 12** Sponsored by Room 4 (3F) KOR Chair(s) **Duk-Hee Kang** Ewha Womans University Medical Center, Korea

Detailed Program

Optimal Dosage of Kremezin in CKD

Yong Chul Kim

Korea

Seoul National University Hospital,

Detailed Program

13:30-15:30	KSN-KSCN J(쿠킹클래스와 함께하	Dint Symposium 는, 투석 환자에서 건강하게 잘 먹기 - 올바른 단백 섭취	KOR	Room 1 (5F)
Chair(s)	Eun Lee Jung Kook Wi	Konkuk University Medical Center, Korea Shinwoo Clinic, Korea		
투석 환자에서 단	백 섭취와 단백질-열량	영양실조 (PEW)	Sung Woo Lee Uijeongbu Eulji N	e Medical Center, Korea
투석 환자에서 올	바른 단백 섭취		Jeeyeon Kim The Catholic Uni Eunpyeong St. M	versity of Korea, lary's Hospital, Korea
시연: 투석 환자에	세서 건강하게 잘먹는 식	l사 만들기	Woo Jeong Kii Gangnam Severa Eun Jeong Cho Hanyang Woman	ance Hospital, Korea oi
13:30-15:30	KORDS Repoi	rt / Dialysis Center Accreditation	KOR	Room 2 (3F)
Chair(s)	Jongha Park Ki Ryang Na	Ulsan University Hospital, University of Ulsan College of Medicine Chungnam National University Hospital, Korea	e, Korea	
Global Compar	rison of Nationwide F	Renal Registry Data	Jongha Park Ulsan University Ulsan College of	Hospital, University of Medicine, Korea
개원가 입장에서	바라본 등록사업		Chang-Yun Yo 윤영석 내과의원, I	on Korea
2022년 인공신정	<u> </u>		Young-Ki Lee Kangnam Sacre	d Heart Hospital, Korea
적정성 평가의 과	거, 현재, 그리고 미래		Jin Yong Lee Health Insurance Assessment Ser	
투석전문의의 현	재와 미래		Won Min Hwa l College of Medic Korea	ng ine, Konyang University,
13:30-15:30	New Field in	Nephrology	KOR	Room 3 (3F)
Chair(s)	Seung Hyeok Han Jung Eun Lee	Severance Hospital, Korea Samsung Medical Center, Korea		
Arteriovenous	Fistula Doppler Ultr	asonogram and Access Surveillance	Hyung Woo Ki Severance Hosp	
Ultrasonogran	n for Nephrologists		Chang Seong I Chonnam Nation Korea	Kim nal University Hospital,
Intensive Care	Nephrology		Jeonghwan Le SMG-SNU Boram	ee ae Medical Center, Korea
Onconephrolog	ЭУ		Jae Wook Lee National Cancer	
13:30-15:30	National Proj	jects in Nephrology	KOR	Room 4 (3F)
Chair(s)	Tae-Hyun Yoo Yong Kyun Kim	Yonsei University College of Medicine, Korea The Catholic University of Korea, St. Vincent's Hospital, Korea		
콩팥병 공통데이	터모델 연구회 국가과저		Ho Seok Koo Inje University Se	oul Paik Hospital, Korea
신장이식환자에서	서 거대세포바이러스 예	방요법의 효과분석 연구	Kyeog Hwan J Kyung Hee Unive	eong rsity Medical Center, Korea
		ic Kidney Diseases for Implementing Precision Medicine	Hayne Cho Pa	rk

KOR Korean **ENG** English **KOR→ENG** KOR/ENG Simultaneous Interpretation Plenary Lecture & Official Program Oral Communication (English) **Ethics Education** 15:40-17:40 KOR Room 1 (5F) Seong Eun Kim Dong-A University Hospital, Korea Chair(s) Sung Hyun Son Hanseo Hospital, Korea Kwang Mo Yang 인공지능(AI) 시대의 의료 윤리 문제 Samsung Medical Center, Korea **Ducksun Ahn** 의학전문직업성에 기반한 자율규제 Korea University College of Medicine, Korea Yeon Hee Kim 의료분쟁 감정 사안에 대한 법률적 해석 법무법인 의성. Korea Sang Wook Kim 인공신장실에서의 윤리적 문제 Gwangmyeong Soo Medical Clinic, 15:40-17:40 **Kidney Academy Room 2 (3F) KOR Bum Soon Choi** The Catholic University of Korea, Eunpyeong St. Mary's Hospital, Korea Chair(s) Sung Ku Lee Jwa-Kyung Kim Application of Novel Anemia Treatment in CKD Hallym University Sacred Heart Hospital, Korea Jin Ho Hwang Recent Advances to Control Hyperphosphatemia Chung-Ang University Hospital, Korea Yohan Park **New Treatment Strategies for Diabetic Nephropathy** Konyang University Hospital, Korea Jae Yoon Park Drug Development of IgA Nephropathy and FSGS Dongguk University Ilsan Hospital, Korea 15:40-17:40 **KSN Cooperative Study Room 3 (3F) KOR** Kook-Hwan Oh Seoul National University Hospital, Korea Chair(s) Sang Heon Song Pusan National University Hospital, Korea Yu Ah Hong [2020년 협동연구과제] 근거 중심의 고령 만성콩팥병 환자 진료지침: 3년차 보고 The Catholic University of Korea, Daejeon St. Mary's Hospital, Korea Se joong Kim [2020년 한국보건의료연구원 과제/2021 협동연구과제] 만성콩팥병 환자 투석방법 선택을 위한 공동 Seoul National University Bundang 의사결정 임상시험 (SDM-ART): 2년차 보고 Hospital, Korea Ha ieong Lee [2021년 협동연구과제] 인공지능 기반 임상-병리 통합 IgA 신장염 예후 예측 모델 개발 Seoul National University Hospital, Korea Soon Hyo Kwon [2021년 한국보건의료연구원 과제] A Pragmatic Randomized Clinical Trial: Twice vs Thrice Soonchunhyang University College of Weekly Incident Hemodialysis in Elderly Patients (PRIDE) Medicine, Korea **Oral Communications 7** 15:40-17:40 Room 4 (3F) ENG Dialysis

Konkuk University School of Medicine, Korea

Chungnam National University Hospital, Korea

Detailed Program

Jung Hwan Park

Dae Eun Choi

Chair(s)

OC7-01 ~ OC7-12

Day 1 May 26 (Thursday) Oral Communications 1 Acute Kidney Injury Room 4 (3F) 08:30-10:30 **ENG** Presentation No. **Title Presenting Author** Deep learning-based prediction model for postoperative AKI in major Sehoon Park **OC1-01** non-cardiac surgeries Seoul National University Hospital, Korea Long term outcome of acute kidney injury: New-onset comorbidities Jihyun Yang **OC1-02** and survival Kangbuk Samsung Hospital, Korea Platelet-to-lymphocyte ratio is associated with in-hospital mortality You Hvun Jeon OC1-03 Kyungpook National University Hospital, in critically ill patients with acute kidney injury requiring continuous renal replacement therapy Comparison of incidence of acute kidney injury, chronic kidney disease Wei Syun Hu OC1-04 and end-stage renal disease between atrial fibrillation and atrial China Medical University Hospital, Taiwan flutter: THE GOOD, THE BAD, THE UGLY The effects of sarcopenia on mortality of patients with acute kidney Jangwook Lee **OC1-05** injury requiring continuous renal replacement therapy Dongguk University Ilsan Hospital, Korea Soo Hvun Han Initial emergency room-6 hours urine volume is an important factor OC1-06 Chungnam National University Hospital, for critically ill patient's survival Korea Urinary cytokines/chemokines for differential diagnosis of acute Song In Baeg OC1-07 interstitial nephritis and acute tubular necrosis Myongji Hospital, Korea Chitaranjan Mahapatra Tamsulosin mediate ureter smooth muscle contraction by increasing **OC1-08** University of California San Francisco, potassium current: An in-silico study United States Seong Geun Kim Impact of timing and stage of acute kidney injury on clinical outcome in OC1-09 Seoul National University College of patients with COVID-19 Medicine Korea Eun Ji Yang Early versus standard initiation of continuous renal replacement OC1-10 Gangnam Severance Hospital, Yonsei therapy (CRRT) in patients undergoing aortic surgery University College of Medicine, Korea Jung Nam An Glycosylated albumin ameliorates kidney injury through improvement OC1-11 Hallym University Sacred Heart Hospital, of mitochondrial function Korea The role of the circadian clock system in the transition from acute

Oral Communication List

OC1-12

kidney injury to chronic kidney disease

Korea University Anam Hospital, Korea

Day 1 May 26 (Thursday) Oral Communications 2 Electrolyte, Hypertension and New Fields Room 4 (3F) 10:40-12:40 **ENG** Presentation No. Title **Presenting Author** Yaerim Kim Impact of metabolic acidosis on all-cause mortality in patients with OC2-01 Keimyung University School of Medicine, COVID-19 Korea Airborne particulate matter exposure induces renal tubular cell injury Hyung Eun Yim OC2-02 in vitro: The role of vitamin D signaling and the renin angiotensin Korea University Ansan Hospital, Korea system The risk of depression, suicidal plan, and suicidal attempt in chronic Ga Yeong Song OC2-03 kidney disease: Results from the Korean National Health and Nutrition Wonju Severance Christian Hospital, Examination Survey 2013-2018 Anti-inflammatory effects of zeaxanthin in pulmonary artery Rahul Kumar OC2-04 hypertension model of rat Jagannath Kishore College, India Use of angiotensin receptor neprilysin inhibitor in ESRD patients with Shina Lee OC2-05 reduced cardiac ejection fraction: Real-world experience from a single Ewha Womans University Mokdong Hospital, Korea Cellular senescence in perirenal adipose tissue is associated with Seo Rin Kim **OC2-06** exacerbation of renal ischemia-reperfusion injury in diet-induced Pusan National University Yangsan Hospital, Korea obese mice Ekamol Tantisattamo Association of nocturnal heart rate dipping with nocturnal systolic OC2-07 University of California Irvine School of blood pressure dipping during pre-living kidney donation period Medicine, United States Antibiotics-induced intestinal microbiota depletion can attenuate acute Jeonghwan Lee OC2-08 kidney injury transition to chronic kidney disease in mice unilateral SMG-SNU Boramae Medical Center, ischemia-reperfusion injury model Korea Study of vitamin D levels, vascular risk factors and inflammation in Vikas Sharma OC2-09 type 2 diabetic patients Sarojini Naidu Medical College, India Jung Nam An Development and validation of deep learning algorithm for detecting OC2-10 Hallym University Sacred Heart Hospital, hyperkalemia based on electrocardiogram Korea Rohit Kumar Anti-atherosclerotic effects of cinnamon bark extract in cholesterol OC2-11 Memorial Institute of Engineering and diet induced hyperlipidemia in rats

Oral Communication List

Technology, India

Day 1 May 26 (Thursday) **Oral Communications 3** Glomerulonephritis Room 4 (3F) 13:30-15:30 **ENG** Presentation No. **Presenting Author** Title Deep learning-based prediction model for prognosis of IgA Sehoon Park OC3-01 nephropathy Seoul National University Hospital, Korea Minji Park The difference of activation pattern of complement system between OC3-02 Kyungpook National University Hospital, pediatric and adult lupus nephritis Korea Higher IL-12 and IL-23 levels and increased P-glycoprotein expression Akhilesh Jaiswal OC3-03 Sanjay Gandhi Post Graduate Institute of drive the transition of Th17 cells to pathogenic IFN-* producing Th17 Medical Sciences, India cells in refractory nephrotic syndrome Proteomic analysis of exosomes from human tubular epithelial cells Kyuhyeon Kim OC3-04 with suppressed TG2 activity under fibrotic injury Seoul National University Hospital, Korea Jiali Wei Genetic variants in MIR3142HG contribute to the predisposition of IgA **OC3-05** Hainan Affiliated Hospital of Hainan nephropathy in a Chinese Han population Medical University, China Jeonghwan Lee Inhibition of RNA methylation signaling pathway mediated by METTL3 OC3-06 SMG-SNU Boramae Medical Center. attenuates kidney fibrosis Korea Snigdha Singh Monocyte-derived circulating microparticles and glomerular M2 OC3-07 Saniav Gandhi Post Graduate Institute of macrophage infiltration in IgAN Medical Sciences, India Jong Joo Moon Cystamine inhibits TGF\$\beta\$ induced changes in podocytes using OC3-08 Seoul National University Biomedical metabolomic analysis Research Institute, Korea Shaozhen Feng Transglutaminase 2 regulates mesangial IgA1 deposition through OC3-09 The First Affiliated Hospital, RhoA-mediated vesicle-trafficking pathway in IgAN Sun Yat-sen University, China Potential of Tc-99m sestamibi dynamic renal scan and quantitative Soo Bin Park OC3-10 SPECT/CT for the evaluation of renal mitochondrial dysfunction: A Soonchunhyang University Seoul Hospital, Korea preliminary study Long noncoding RNA FGD5-AS1 sponges microRNA-497-5p to Jiali Wei OC3-11 regulate hyperuricaemia-induced renal interstitial fibrosis in a rat Hainan Affiliated Hospital of Hainan model involving LIM domain only 7 Medical University, China The effects of 12 weeks contact-free combined exercise program on Hyeonju Lee OC3-12 health fitness, quality of life, physical activity and kidney function in Seoul National University Hospital,

pediatric patients with chronic kidney disease

Oral Communication List

Korea

Day 2 May 27 (Friday) Oral Communications 4 Pediatric/Geriatric/Big Data **Room 4 (3F)** 10:40-12:40 **ENG** Presentation No. **Presenting Author** Title Soo Jeong Choi Feasibility assessment of catheter complications in peritoneal dialysis OC4-01 Soonchunhyang University Bucheon patients using a common data model Hospital, Korea Quest of biomarkers to predict the progression of chronic kidney Ji Hvun Kim **OC4-02** diseases in children with CAKUT of Korea; A report from KNOW-Ped Seoul National University Bundang Hospital, Korea Selective application of Initial steroid regimen in idiopathic steroid-OC4-03 sensitive nephrotic syndrome: The preliminary report of a prospective-Kyungpook National University Hospital, multicenter study Euniin Bae Impact of obesity on renal function in the elderly: Results from the **OC4-04** Gyeongsang National University geriatric cohort database of the NHIS, 2009~2015 Changwon Hospital, Korea Is Neutrophil/Lymphocyte ratio associated with glomerular filtration **Aygul Celtik OC4-05** rate and proteinuria in older adults with non-dialysis chronic kidney School of Medicine, Ege University, Turkey disease? Su Woong Jung Calorie restriction reprograms single-cell transcriptional landscape **OC4-06** Kyung Hee University Hospital at of aging in mouse kidneys Gangdong, Korea Air pollution, genetic factors, and the risk of incident chronic kidney Jeonghwan Lee OC4-07 disease: A prospective study of polygenic risk score analysis in the UK SMG-SNU Boramae Medical Center, **Biobank** Shin Yeong Kang Effect of metabolically healthy obesity on cardiovascular outcomes OC4-08 Kyung Hee University Medical Center, and progression to end-stage renal disease in chronic kidney disease Rashmika Singh Epigenetic regulation: Does HDAC2 plays role in drug resistance via OC4-09 Sanjay Gandhi Post Graduate Institute of regulation of P-gp and MRP-1 Medical Sciences, India Ceria-zirconia nanoparticles reduce intracellular globotriaosylceramide Se Hee Yoon **OC4-10** accumulation and attenuate kidney injury by enhancing the autophagy flux College of Medicine, Konyang University, in cellular and animal models of Fabry disease Factors associated with severity of polycystic liver in the patients with Hayne Cho Park OC4-11 autosomal dominant polycystic kidney disease: Results from inherited Kangnam Sacred Heart Hospital, Korea cystic kidney disease genetic cohort study Sheng Cui Development of CRISPR/Cas9 therapeutics targeting A4GALT using **OC4-12** School of Medicine,

patient derived kidney organoids model of Fabry disease

Oral Communication List

The Catholic University of Korea, Korea

Day 2 May 27 (Friday) Oral Communications 5 Transplantation **Room 4 (3F)** 14:40-16:40 **ENG** Presentation No. **Presenting Author** Title Eun Jeona Ko Effect of dual inhibition of DPP4 and SGLT2 on tacrolimus-induced OC5-01 The Catholic University of Korea, diabetes mellitus and nephrotoxicity in rat model Seoul St. Mary's Hospital, Korea Outcomes of ABO-incompatible living donor kidney transplantation Tai Yeon Koo OC5-02 compared to waiting or deceased donor kidney transplantation Seongnam Citizens Medical Center, Korea Risk of new-onset atrial fibrillation among heart, kidney and liver Wei Syun Hu OC5-03 transplant recipients: Where are we and where are we going? China Medical University Hospital, Taiwan Anti-thymocyte globulin versus basiliximab induction for kidney Jun Young Lee OC5-04 transplantation in elderly patients: Matched analysis with Korean Wonju Severance Christian Hospital, multicentric registry Korea Prospective study to evaluate the effectiveness of donor-derived cell-Hyung Duk Kim OC5-05 free DNA for early diagnosis of acute rejection in renal transplant The Catholic University of Korea, recipients Seoul St. Mary's Hospital, Korea Woo Yeong Park Clinical efficacy and safety of denosumab in kidney transplant Keimyung University School of Medicine, OC5-06 recipients with osteoporosis Keimyung University Kidney Institute, Korea Transition of metabolic dysfunction after kidney transplantation and Yu Ho Lee **OC5-07** its association with transplant outcomes: A nationwide prospective Bundang CHA General Hospital, Korea cohort study Combined analysis of HLA Class II Eplet mismatch and tacrolimus Ji Won Min The Catholic University of Korea, OC5-08 levels for the prediction of de novo donor specific antibody development in kidney transplant recipients Bucheon St. Mary's Hospital, Korea Seoyoung Choi Short-term predictive models for post-kidney transplant diabetes OC5-09 Seoul National University College of mellitus using machine learning approach: Preliminary data Medicine, Korea Manzoor Parry A study of clinical presentation and outcome of Covid-19 infection in OC5-10 Sher I Kashmir Institute of Medical kidney transplant recipients Sciences, India Hyung Duk Kim Clinical trial of allogeneic mesenchymal stem cell therapy for chronic OC5-11 The Catholic University of Korea, active antibody-mediated rejection in kidney transplant recipients Seoul St. Mary's Hospital, Korea Current status of cytomegalovirus prophylaxis and its clinical Jin Sug Kim OC5-12 impact in kidney transplant recipients in Korea: The Korean organ Kyung Hee University School of Medicine, Korea transplantation registry study

Oral Communication List

Day 3 May 28 (Saturday)				
08:30-10:30	Oral Communications 6 Chronic Kidney Diseases	ENG	Room 4 (3F)	
Presentatio	n No. Title	Prese	nting Author	
OC6-01	Gut microbial genes and metabolism for methionine and branched- chain amino acids in diabetic nephropathy	Ji Eun Kim Korea Universit	y Guro Hospital, Korea	
OC6-02	Non-invasive biomarker using urinary exosome miRNA that reflects pathologic features of patients with diabetic kidney diseases	Dae Kyu Kim Kyung Hee Univ Gangdong, Kore	ersity Hospital at a	
OC6-03	Curcumin blocks high glucose-induced podocyte injury via RIPK3 -dependent pathway	Seong Woo Le Soonchunhyang Medicine, Korea	University College of	
OC6-04	Periostin deficiency attenuates kidney fibrosis and pancreatic β-cell dysfunction though reducing tenascin C under diabetic conditions	Ara Cho Seoul National Medicine, Korea	University College of	
OC6-05	Effects of Zinc Oxide Nanoparticles on oxidative stress and renal function in fat-fed and streptozotocin-treated rats	Pardeep Kum FH Medical Coll	n ar ege and Hospital, India	
OC6-06	Similar risk of kidney function decline between tenofovir alafenamide and besifovir dipivoxil maleate in chronic hepatitis B	Chan-Young . Severance Hosp		
OC6-07	Urinary sodium-to-potassium ratio and CKD progression in non- dialysis-dependent CKD patients: Results from the KNOW-CKD study	Donghyuk Ka Korea Universit	ng y Guro Hospital, Korea	
OC6-08	Long-term exposure to high perceived temperature and risk for mortality among CKD patients	Jeonghwan L SMG-SNU Bora Korea	ee mae Medical Center,	
OC6-09	SGLT2 inhibitor reduces urinary mitochondrial DNA in chronic kidney disease patients with or without type 2 diabetes mellitus	Haekyung Le Soonchunhyang Korea	e University Seoul Hospital,	
OC6-10	Age-specific estimated glomerular filtration rate and outcomes: Insights from the KNOW-CKD cohort	Ji Hye Kim Seoul National	Jniversity Hospital, Korea	
OC6-11	Development and validation of deep learning algorithm for evaluating kidney function based on electrocardiogram	Jung Nam An Hallym Universi Korea	ty Sacred Heart Hospital,	
OC6-12	Rosuvastatin inhibits tubulointerstitial fibrosis via activating H0X13-BMP-7 pathway	Donghwan Or Gangnam Sever	I rance Hospital, Korea	

Oral Communication List

Day 4 May 29 (Sunday) **Oral Communications 7** Dialysis **Room 4 (3F)** 15:40-17:40 **ENG** Presentation No. **Presenting Author** Title Dal-Ah Kim Effect of Plasminogen Activator Inhibitor-1 (PAI-1) on phenotype OC7-01 Ewha Womans University Medical Center, transition of human peritoneal Mesothelial Cells (MCs) Korea Jongho Kim Fasting blood glucose level and all-cause mortality in peritoneal OC7-02 Kyung Hee University Medical Center, dialysis patients Synergy of selective inhibitor of PDE-5 and 5-HT2B receptor: A potent Saurabh Chaturvedi **OC7-03** anti-fibrotic strategy for abrogating fibrotic potential of peritoneal GSVM Medical College, India fibroblasts in PD patients Ye Rim Her Cross-talk between Mesothelial Cells (MCs) and adipocytes (ACs) as a OC7-04 Ewha Womans University Medical Center. trigger for peritoneal fibrosis in Peritoneal Dialysis (PD) Korea Hanbi Lee Combined impact of mean and variability of non-HDL-Cholesterol on **OC7-05** The Catholic University of Korea, cardiovascular risk in patients undergoing hemodialysis Seoul St. Mary's Hospital, Korea Dae Kyu Kim Circulating follistatin-like protein-1 levels predicts the risk of **OC7-06** Kyung Hee University Hospital at cardiovascular events and death in hemodialysis patients Gangdong, Korea Elevated serum alkaline phosphatase levels and risk of all-cause Md Salman Hussain **OC7-07** mortality in dialysis patients Jamia Hamdard, India Woo Yeong Park A risk prediction for early-peak mortality in Korean elderly Keimyung University School of Medicine, **OC7-08** hemodialysis patients: Data from a multicenter cohort study Keimyung University Kidney Institute, Korea Soo-Young Yoon Fasting blood glucose level and all-cause mortality in hemodialysis OC7-09 Kyung Hee University Medical Center, patients Korea Femoral vein tunneled-cuffed catheters in a single tertiary teaching Suek Xuan Pon **OC7-10** hospital: A five years retrospective study in Malaysia University Malaya, Malaysia Severe acute respiratory syndrome coronavirus 2 antibody response Dae Kyu Kim OC7-11 after heterologous immunizations with ChAdOx1/BNT162b2 in end-Kyung Hee University Hospital at stage renal disease patients on hemodialysis Gangdong, Korea Strict blood pressure control was associated with better survival in Joo Kyung Lee OC7-12

Korean hemodialysis patients, but not in peritoneal dialysis

Oral Communication List

Korea University Guro Hospital, Korea

Abstract No.	Title	Presenting Author
1010	Low-osmolar versus Iso-osmolar contrast media on the risk of contrast-induced acute kidney injury: A propensity score matched study	Taeho Lee Gachon University Gil Medical Center, Korea
1015	Characteristics and outcomes of hospitalized Covid-19 patients with acute kidney injury	Alrik Earle Escudero Makati Medical Center, Philippines
1017	Effect of ventricular tachycardia on the outcomes of patients undergoing continuous renal replacement therapy due to acute kidney injury	Seong Geun Kim Seoul National University Hospital, Korea
1025	Comparative prognostic accuracy of four prognostic scores for hospital mortality in dialysis requiring acute kidney injury patients (AKI-D) in an intensive care unit in a tertiary hospital in Cebu city	Kirbe Labarcon Chong Hua Hospital Cebu, Philippines
1053	Clinical characteristics of acute kidney injury in patients with phytolaccaceae ingestion	A Young Cho Presbyterian Medical Center, Korea
1063	A retrospective study of risk factors for the circuit lifetime of continuous renal replacement therapy	Jae Seok Kim Yonsei University Wonju College of Medicine Korea
1071	ANCA-associated vasculitis and deep vein thrombosis after Pfizer- BioNTech COVID-19 vaccine	Yeon Hee Lee The Catholic University of Korea, Incheon St. Mary's Hospital, Korea
1079	Rrt-mortality score as a tool for predicting death in severe acute kidney injury patients who receiving renal replacement therapy: Preliminary result from sea-rrt registry study	Theerapon Sukmark Thungsong hospital, Thailand
1080	β-Hydroxybutyrate, a ketone body, ameliorate the sepsis-induced acute kidney injury	Minjeong Kim Pusan National University Yangsan Hospital Korea
1084	Therapeutic benefit of fraxin on kidney injury: An phytopharmaceutical approach in the medicine	Dinesh Kumar Patel Sam Higginbottom University of Agriculture, Technology and Sciences, India
1085	Biological effect of chrysosplenetin on bone loss: Therapeutic benefit and pharmacological activities	Dinesh Kumar Patel Sam Higginbottom University of Agriculture Technology and Sciences, India
1088	Hyperlactatemia as a predictor of mortality in patients undergoing continuous renal replacement therapy due to acute kidney injury	Seong Geun Kim Seoul National University College of Medicine, Korea
1093	Consultation to nephrospecialist after starting continuous renal replacement therapy is related with improved survival	Jinwoo Lee Seoul National University Hospital, Korea

Acute Kidney Injury Abstract No. Title Presenting Author Sung Jo Hwang A case report of fungus ball presenting as a rare cause of acute renal 1114 Soonchunhyang University Cheonan Hospital, failure due to obstructive uropathy Cardiorenal consequences in the hospitalized patients with COVID-19 Soie Kwon 1115 infection Seoul National University Hospital, Korea Jae Wan Jeon 1118 Acute kidney injury and kidney damage in COVID-19 patients Chungnam National University Sejong Hospital, Korea Haider Ali Khan Incidence and impact of acute kidney injury on patients admitted to 1122 Combined Military Hospital (CMH) Peshawar, intensive care unit Pakistan Woo Ram Bae The relationship between the occurrence of RCIN and changes in 1134 Gyeongsang National University Changwon estimated glomerular filtration rate (eGFR) level in long term follow up Hospital, Korea Impact of acute kidney disease on the incidence of acute kidney injury Harin Rhee 1137 in the intensive care unit Busan National University Hospital, Korea Clinical significance of serum albumin monitoring during continuous Harin Rhee 1139 renal replacement therapy Pusan National University Hospital, Korea Yu Kyung Chung DICAM protects HK-2 cell injury by reducing inflammation and 1147 Kyungpook National University Hospital, apoptosis Korea Validation of the prediction model for successful discontinuation of Junseok Jeon 1168 continuous renal replacement therapy Samsung Medical Center, Korea Diuretic therapy is helpful for the successful discontinuation of Junseok Jeon 1172 continuous renal replacement therapy - multicenter retrospective Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea cohort study Hoe-Yune Jung NovMetaPharma Co., Ltd. Cyclo(-His-Pro) protects against cisplatin-induced acute kidney injury 1178 School of Interdisciplinary Bioscience and by alleviating oxidative stress Bioengineering, Pohang University of Science and Technology (POSTECH), Korea Junseok Jeon Effects of poly (ADP-Ribose) polymerase inhibitor treatment on the 1180 Samsung Medical Center, Sungkyunkwan repair after renal ischemia-reperfusion injury University School of Medicine, Korea

The effects of dietary fat and protein on the repair of ischemic acute

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kidney injury

E-poster Presentation List

Samsung Medical Center, Sungkyunkwan

University School of Medicine, Korea

Junseok Jeon

Acute Kidney Injury		
Abstract No.	Title	Presenting Author
1191	Urinary cytokines/chemokines as noninvasive biomarkers predicting renal outcome in crescentic glomerulonephritis	Hojin Jeon Samsung Medical Center, Korea
1233	N-3-oxododecanoyl homoserine lactone inhibits angiogenesis by activating the angiopoietin-Tie system in human endothelial cells	Jungho Shin Chung-Ang University College of Medicine, Korea
1241	In vivo imaging of renal microvasculature in murine ischemia- reperfusion injury models using optical coherence tomography angiography	Jang-Hee Cho Kyungpook National University Hospital, Korea
1250	Risk factors for post-contrast acute kidney injury in patients repeatedly administered both iodine- and gadolinium-based contrast media on the same visit to the emergency department: A retrospective study	Soo Hyun Han Chungnam National University Hospital, Korea
1251	Urine-drived stem cell attenuate renal inflammation and fibrosis after renal ischemia reperfusion	Dae Eun Choi Chungnam National University Hospital, Korea
1274	Platelet to lymphocyte ratio and neutrophil to lymphocyte ratio are prognostic factors of acute kidney injury outcome	Ha Nee Jang Gyeongsang National University Hospital, Korea
1278	Effects of Cardiovascular Outcomes of Sacubitril-valsartan in patients with Acute Kidney Injury	Eun Ji Yang Gangnam Severance Hospital, Yonsei University College of Medicine, Korea
1283	Inhibition of KDM5 attenuates renal fibrosis after ischemic kidney injury	Sungjin Chung School of Medicine, The Catholic University of Korea, Korea
1292	The impact on serum PTH levels of the severity of acute kidney injury	Jee Eun Choi Wonkwang University Hospital, Korea
1294	Utility of contrast-enhanced ultrasound to predict renal recovery from sepsis-associated acute kidney injury receiving renal replacement therapy	Jungho Shin Chung-Ang University College of Medicine, Korea
1299	Procalcitonin decrease predicts mortality and renal recovery from dialysis in patients with sepsis-induced acute kidney injury receiving continuous renal replacement therapy	Il Young Kim Pusan National University Yangsan Hospita Korea
1301	The role of NRF2 in the recovery of hypoxia/reoxygenation injury in aged kidney cells	Min Jee Jo Korea University Guro Hospital, Korea
1303	Renal tuberculosis in a healthy young adult with idiopathic CD4 lymphocytopenia	Chunghyun Kim Jeju National University School of Medicine Korea

Acute Kidney Injury			
Abstract No.	Title	Presenting Author	
1326	Serum ST2 level reflects deteriorated liver and kidney function in liver transplant recipients	Jong Joo Moon Seoul National University Biomedical Research Institute, Korea	
1388	Elevated serum lactate dehydrogenase levels as a prognostic factor for mortality and acute kidney injury among hospitalized patients with COVID-19	Jeonghwan Lee SMG-SNU Boramae Medical Center, Korea	
1395	Biological importance of hispidulin in the medicine against kidney disorders	Dinesh Kumar Patel Sam Higginbottom University of Agriculture Technology and Sciences, India	
1439	2-Mercaptoethanol protects against DNA damage induced by renal ischemia and reperfusion injury through upregulation of glutathione peroxidase 4	Daeun Moon Jeju National University, Korea	
1442	Short-term high-fat diet intake aggravates cisplatin-induced acute kidney injury via increased oxidative stress and mitochondrial damage	Yong Kwon Han Kyungpook National University School of Medicine, Korea	
1452	Time-trend of post-operative acute kidney injury from a multicenter cohort study	Soie Kwon Seoul National University Hospital, Korea	
1459	A clinical course of acute oxalate nephropathy combined with acute tubular necrosis by ethylene glycol poisoning	Jee Eun Choi Wonkwang University Hospital, Korea	
1466	Analysis of the characteristics of acute kidney injury and mortality in patients with urinary tract stones	Young Eun Choi Korea University Anam Hospital, Korea	
1470	Validation study for the simple postoperative acute kidney injury risk index in patients receiving non-cardiac major surgeries	Soie Kwon Seoul National University Hospital, Korea	
1480	Kidney tissue extracellular matrix derived sponges promotes renal tissue regeneration in acute kidney injury model	Jae Yun Kim Pohang University of Science and Technology (POSTECH), Korea	
Big Data			
Abstract No.	Title	Presenting Author	
1064	Combined effects of chronic kidney disease and nonalcoholic fatty liver	Namju Heo	

disease on the risk of cardiovascular disease in patients with diabetes

Deep learning predicts the differentiation of kidney organoids derived

from human induced pluripotent stem cells

E-poster Presentation List

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The Catholic University of Korea,

Seoul St. Mary's Hospital, Korea

Seoul National University Hospital, Korea

Jong Young Lee

Big Data Abstract No. Title Presenting Author 1083 Effects of vitamin C and E on mortality according to smoking status Gyeongsang National University Changwon Hospital, Korea Hve Eun Yoon Seasonality in hip fracture among hemodialysis patients and kidney 1110 The Catholic University of Korea, transplant recipients in South Korea Incheon St. Mary's Hospital, Korea Analysis of changes in dialysis-related treatment practices using data Hyung Jong Kim 1127 from the health insurance review and assessment service Bundang CHA General Hospital, Korea Comparison of arteriovenous access patency according to health Won Ho Lee 1175 insurance type; Analysis using Korean National Health Insurance Hallym University Sacred Heart Hospital, Database from 2009 to 2019 Korea Validation of the operational definition of mortality analysis in Dong Hee Lee 1210 hemodialysis population using the health insurance review and Hallym University Sacred Heart Hospital, assessment service database Korea Sehyun Jung Risks of mortality and causes of death according to kidney function 1243 Gveongsang National University Hospital. parameters: A nationwide observational study in Korea Korea Trends in statin therapy for secondary prevention in patients with Yu Ah Hong 1277 atherosclerotic cardiovascular diseases on dialysis using the Korean The Catholic University of Korea, National Health Insurance Service data, 2013-2018 Daejeon St. Mary's Hospital, Korea Junkyu Park Myocardial infarction, stroke or all-cause death in a general 1285 School of Medicine, population with or without albuminuria The Catholic University of Korea, Korea Yaerim Kim Impact of proteinuria on the development of new-onset diabetes in 1309 Keimyung University School of Medicine, young adults Korea Yaerim Kim Impact of dietary intake of each vitamin on all-cause mortality in 1317 Keimyung University School of Medicine, decreased kidney function Korea Thiazide-related hyponatremia: A nationwide population-based cohort Hyo Jin Boo 1358 study Chung-Ang University Hospital, Korea Depression and suicide in end stage kidney disease (on dialysis and Jun Young Lee 1413 kidney transplant recipients): A national-wide population study Wonju Severance Christian Hospital, Korea Association between haemorrhagic fever with renal syndrome and 1455

E-poster Presentation List

cancers

Dankook University Medical College, Korea

Diabetic Nephropathy Abstract No. Title Presenting Author Pathologic validation of Japanese Renal Pathology Society (JRPS) Minseob Eom 1052 classification and new challenges on predicting renal prognosis in Wonju Severance Christian Hospital, Korea patients with diabetic nephropathy Evaluation of embelin alone and its combination with metformin on Sourabh Jain 1057 diabetic nephropathy Arihant School Of Pharmacy And Bri, India Pure effects of diabetes on renal outcome in patients with normal Samel Park 1100 renal function - direct comparison between diabetic and nondiabetic Soonchunhyang University College of individuals Medicine, Korea Comparison of clinicopathologic features and renal prognosis between Jin Ah Park 1109 pure diabetic nephropathy and mixed diabetic nephropathy in patients The Catholic University of Korea, with type 2 diabetes Incheon St. Mary's Hospital, Korea Jae-Wan Kwon Association of neutrophil extracellular traps with the development of 1140 Kyungpook National University Hospital, diabetic nephropathy in type 2 diabetic model Korea The decreased serum level of platelet derived growth factor-C in Hyeongwan Kim 1149 diabetic kidney disease Chonbuk National University Hospital, Korea Aakanchha Jain Oral delivery of insulin loaded chitosan / Plga microspheres for 1177 National Institute of Pharmaceutical management of diabetics Education and Research, India **Jiyoung Son** Effect of renal function and proteinuria on survival of diabetic foot 1198 The Catholic University of Korea, ulcer Bucheon St. Mary's Hospital, Korea Antidiabetic and renoprotective effects of trigonella foenum graecum Pardeep Kumar 1204 and sodium orthovanadate in experimental diabetes rats FH Medical College and Hospital, India Vikash Kumar Pandey Effect of intravitreal vascular endothelial growth factor inhibitors on 1244 Indira Gandhi Institute of Medical Sciences,

E-poster Presentation List

kidney function

type II diabetes via alteration of TGF-B

1266

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1311

Renalprotective effect of ganoderic acid against renal dysfunction in

Enrichment of gut microbiome-related pyruvate fermentation

2-Deoxy-D-Ribose induces oxidative damage through inhibition of

ameliorates progression of diabetic kidney disease

system xc- in renal tubular epithelial cells

Vikas Kumar

Youngmin Yoon

Miyeon Kim

Sam Higginbottom University of Agriculture.

Technology & Sciences, India

Chosun University Hospital, Korea

Jeju National University Hospital, Korea

Diabetic Nephropathy Abstract No. Title Presenting Author Flavonoid rich fraction of alstonia scholaris leaves alleviates diabetic Devendrakumar Vaishnav 1321 nephropathy in experimental rats via its antioxidant and anti-Saurashtra University, India inflammatory potential Junghyun Cho Empagliflozin attenuates renal fibrosis through the DsbA-L- CAS-1443 Soonchunhyang University College of STING pathway Medicine, Korea **Hoe-Yune Jung** NovMetaPharma Co., Ltd. CZ slows the progression of the renal fibrosis associated with type 2 1462 School of Interdisciplinary Bioscience and diabetes in KKAy mice Bioengineering, Pohang University of Science and Technology (POSTECH), Korea Jose Francisco 1473 Proteinuria and sodium-glucose co-transporter-2 inhibitors Centro Hospitalar de Trás-os-Montes e Alto Douro, Portugal Preclinical evaluation of an ayurvedic preparation, pramehari ark in Riddhi Shukla

E-poster Presentation List

type-2 diabetic nephropathy

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Fluid, Electrolyte and Acid-Base			
Abstract No.	Title	Presenting Author	
1033	A case of three Gitelman syndrome patients with chronic hypokalemia from a two-generation family.	Ju Hwan 0h Presbyterian Medical Center, Korea	
1166	A journey for diagnosis of hyponatremia in metastatic epithelioid mesothelioma	Wonkyo Yi Chonbuk National University Hospital, Korea	
1281	Distal renal tubular acidosis with severe hypokalemia in Sjögren's syndrome.	Baigalmaa Sodnomdarjaa State Second Central Hospital of Mongolia, Mongolia	
1351	The incidence, and clinical outcomes of hyponatremia associated with alcohol prescription	Jungyoon Choi Gyeongsang National University Changwon Hospital, Korea	
1410	Therapeutic effectiveness of bavachinin in the medicine against various types of enzymes through scientific data analysis	Dinesh Kumar Patel Sam Higginbottom University of Agriculture, Technology and Sciences, India	

Atmiya University, India

Geriatric Nephrology Abstract No. **Title Presenting Author** Geriatric nutrition risk index is associated with retinopathy in patients Yo Seop Cha 1291 with type 2 diabetes Kangnam Sacred Heart Hospital, Korea Association between geriatric nutritional risk index and decline in Sukmin Yoon 1335 kidney function Samsung Changwon Hospital, Korea **Glomerular and Tubulointerstitial Disorders (CKD) Title Abstract No. Presenting Author** A case of seronegative pulmonary-renal syndrome in advanced IgA Alrik Earle Escudero 1016 nephropathy Makati Medical Center, Philippines Mgih Bandara 1020 Familial Clustering in Sri Lankan CKDu cases Centre For Research National Hospital Kandy, Sri Lanka Mgih Bandara 1021 Risk factors and their effect on the progression of Sri Lankan CKDu Centre For Research National Hospital Kandy, Sri Lanka Identification of renoprotective effect through regulation of lipid metabolism 1062 related ring finger protein 20 in chronic kidney disease with obesity Kyungpook National University Hospital, Korea Radiomic feature analysis based on computed tomography images to Seongho Jo 1073 predict baseline renal function in patients with chronic kidney disease Inha University Hospital, Korea Jae Seok Kim Role of integrin in the interaction between podocyte and glomerular 1086 Yonsei University Wonju College of Medicine, basement membrane Korea Ciria Sousa 1095 SGLT2 Inhibitors: Walking in the world of glomerulopathies Centro Hospitalar de Trás-os-Montes e Alto Douro, Portugal 1112 Lymphangiogenesis in biopsy-proven lupus nephritis Chonbuk National University Hospital, Korea **Kyung Pyo Kang** Sirt6 activation decreases renal tubulointerstitial fibrosis and 1136 Chonbuk National University Medical School, inflammation by TGF-B/Smad signaling pathway Korea Renal biopsy is mandatory in normal urinary findings with unknown Byoung-Soo Cho 1141 origin CKD/hypertension Cho Byoung Soo Clinic, Korea

Minimal change disease following the second dose of Moderna

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COVID-19 vaccine

E-poster Presentation List

Dong-A University Hospital, Korea

Young Hee Kim

Glomerular and Tubulointerstitial Disorders (CKD) Abstract No. Title Presenting Author Il Young Kim Akt1 is involved in renal fibrosis and tubular apoptosis in a murine 1206 Pusan National University Yangsan Hospital, model of acute kidney injury-to-chronic kidney disease transition More than meets the eve. Antineutrophil cytoplasmic autoantibody Carolina Ferreira 1208 (ANCA) - associated vasculitis (AAV) - a diagnostic challenge in elderly Centro Hospitalar Tondela Viseu, Portugal Performance of new race-free eGFR equation in predicting Jaehee Koh 1267 complications in chronic kidney disease: From the KNOW-CKD study Kangbuk Samsung Hospital, Korea BCL2 associated athanogene 2 (BAG2) mediates kidney fibrosis Minji Sung 1269 through TGFb1 signaling pathway CHA University, Korea Eunieong Kang Clinical relevance of focal segmental glomerulosclerosis classification 1357 Ewha Womans University Medical Center, proposed by the KDIGO 2021 guideline for glomerular diseases Korea Shinta Retno Wulandari Effect of zinc supplementation on nutritional status in children with 1361 Bhayangkara Lemdiklat Indonesian Police chronic kidney disease : A systematic review Hospital, Indonesia Peripheral blood toll like receptor 7 expression and serum interferon Hayam El Aggan 1370 lambda 1 levels in systemic lupus erythematosus and their relation to Faculty of Medicine, Alexandria University, disease activity and lupus nephritis Sarantuva Batgerel Systemic lupus erythematosus in pregnancy, biopsy proven Lupus 1393 State Second Central Hospital of Mongolia, nephritis in Mongolia Mongolia **Rohit Kumar** Renoprotective and antioxidant enhancing effects for cinnamaldehyde 1396 Memorial Institute of Engineering and in a rat model of chronic kidney disease Technology, India Effect of curcumin and resveratrol supplementation on bone and Itsna Ulin Nuha 1428 muscle mass in patients with chronic kidney disease: A systematic Budhi Pratama Clinic, Indonesia review Hyunglae Kim The predictor for renal outcomes in patients with class IV lupus 1449 The Catholic University of Korea, nephritis in Korean; CMC GN registry St. Vincent's Hospital, Korea Seong Gyu Kim A case of pathologically confirmed membranous glomerulonephritis 1451 Daegu Catholic University Medical Center, after COVID-19 recombinant vaccination Seong Gyu Kim 1456 A case of rhabdomyolysis following COVID-19 recombinant vaccination Daegu Catholic University Medical Center,

E-poster Presentation List

Korea

Abstract No.	Title	Presenting Author
1005	Comparison of CHA2DS2-VASc and C2HEST scores for predicting the incidence of atrial fibrillation among patients with end-stage renal disease - The known, The unknown, The unforgettable	Wei Syun Hu China Medical University Hospital, Taiwan
1018	Clinical outcomes of hemodialysis patients with COVID-19 in a Tertiary Hospital: A single-center retrospective study	Hazel Christine Delos Santos Makati Medical Center, Philippines
1022	Serum GDF-15 associated with cognitive dysfunction in end stage renal disease on maintenance hemodialysis	Hae Ri Kim Chungnam National University Sejong Hospital, Korea
1028	Nutritional status of chronic kidney disease patients on maintenance hemodialysis in a tertiary hospital	Marika Ilysha Lapidario Remedios Trinidad Romualdez Hospital, Philippines
1035	Usual home or hospital-based exercise does not affect muscle strength in hemodialysis patients	Ran-Hui Cha National Medical Center, Korea
1041	A case of idiopathic hypereosinophilic syndrome in hemodialysis patient	Jeong-Myung Ahn Bongseng Memorial Hospital, Korea
1044	Clinical significance of soluble ST2 for the evaluation of volume status in hemodialysis patients: A single-center study	Hyeon Jeong Lee Keimyung University School of Medicine, Korea
1049	Clinical parameters predicting frailty in hemodialysis dependent patients	Abdul Rehman Arshad Combined Military Hospital Peshawar, Pakistan
1051	Novel experience in using medium cut-off hemodialysis in patients with multiple myeloma complicated by dialysis-dependent acute kidney injury: A case series in Asian population	Wen Jie Lau University Malaya Medical Centre, Malay
1054	Gut microbiome short chain fatty acid profile in routine twice weekly hemodialysis patients with ascites	Aryo Suseno Dr. Moewardi General Hospital Surakarta Sebelas Maret University, Indonesia
1069	Serum calcification propensity and association with bone mineral density in hemodialysis patients	Wonki Kim Gachon University Gil Medical Center, Ko
1078	The effect of nephrologist care on patient survival in hemodialysis facilities: A Korean nationwide cohort study	Do Hyoung Kim Kangnam Sacred Heart Hospital, Korea
1090	High cortisol levels are associated with oxidative stress and mortality in maintenance hemodialysis patients	Seyeon Park Kangnam Sacred Heart Hospital, Korea
1091	COVID-19 related clinical outcome among Korean hemodialysis patients	Hayne Cho Park Kangnam Sacred Heart Hospital, Korea

Hemodialysis			
Abstract No.	Title	Presenting Author	
1108	The consecutive increase in vascular access blood flow after percutaneous transluminal angioplasty in hemodialysis patients	Seoyon Koh Ewha Womans University Mokdong Hospital Korea	
1158	Target blood pressure in Korean hemodialysis patients for optimal survival	Ji Eun Kim Korea University Guro Hospital, Korea	
1161	Humoral response to SARS-CoV-2 vaccination in dialysis patients	Su Min Kim Inje University Haeundae Paik Hospital, Korea	
1188	The prevalence of adrenal insufficiency in hemodialysis patients according to low-dose and standard-dose ACTH stimulation tests	Hyun Suk Kim Chuncheon Sacred Heart Hospital, Korea	
1194	Impact of needle type on substitution volume during online hemodiafiltration: Plastic cannula versus metal needles	Ajin Cho Kangnam Sacred Heart Hospital, Korea	
1196	The Interleukin 6 is associated inflammatory biomarker for arteriovenous fistula failure in hemodialysis pateints	Jihyun Baek Bundang CHA General Hospital, Korea	
1202	Transient left ventricular dysfunction after flow reduction therapy for high-flow fistula in a hemodialysis patient: A case report	In Soo Kim Hallym University Sacred Heart Hospital, Korea	
1203	Unplanned hemodialysis and related factors in chronic kidney disease patients	Kyung Ho Lee Soonchunhyang University Bucheon Hospita Korea	
1215	The association between arterial stiffness and increased medial thickness in hemodialysis patients	Seok-Hyung Kim Chuncheon Sacred Heart Hospital, Korea	
1221	Effect of expanded hemodialysis on inflammatory cytokines: 3-year cohort study	Hyo-Wook Gil Soonchunhyang University Cheonan Hospita Korea	
1222	A case of successful treatment of AVF thrombosis by overcoming 3 obstacles (Old thrombus after 2 weeks, Complex shape of draining vein, Residual thrombus after thrombus removal)	Heeryong Lee LEESIN Hemodialysis and Intervention Clini Korea	
1229	Changes of total body water in hemodialysis patients : A comparison between bcm and inbody measurements	Minsu Yang Chuncheon Sacred Heart Hospital, Korea	
1235	Current state and factors associated with type and maturation of hemodialysis arteriovenous access: A single center cohort study	Yong-Soo Kim The Catholic University of Korea, Seoul St. Mary's Hospital, Korea	
1247	Quality of sleep amongst patients with end stage renal disease on hemodialysis	Gullali Naeem Combined Military Hospital Peshawar, Pakistan	

Hemodialysis Abstract No. Title Presenting Author Effects of anemia and ferritin on the all-cause mortality of 1265 hemodialysis patients Seoul National University Hospital, Korea High-flow arteriovenous fistula and myocardial fibrosis in Sungmin Kim 1282 hemodialysis patients with non-contrast cardiac magnetic resonance Hallym University Sacred Heart Hospital, Korea Eu Jin Lee A novel 2-year survival marker of end-stage renal disease patients 1307 Chungnam National University Hospital, initiating maintenance hemodialysis Korea Microbiological safety of substitution fluid produced by central dialysis Young-Il Jo 1320 fluid delivery system for high-volume hemodiafiltration Konkuk University Medical Center, Korea Impact of the body composition on responsiveness to erythropoiesis-Hyang Yun Lee 1327 stimulating agent in patients with chronic hemodialysis Chung-Ang University Hospital, Korea Prevalence and associated factors of protein-energy wasting among Nadira D'mas Getare Sanubari 1338 maintenance hemodialysis patients in University of Gadjah Gada University Gadjah Mada, Indonesia Hospital, Yogyakarta Validity of dialysis malnutrition and malnutrition inflammation score Susetyowati Susetyowati 1343 compared to GLIM criteria to assess malnutrition in maintenance University Gadjah Mada, Indonesia hemodialysis patients Olimkhon Sharapov The influence of cardiovascular comorbidity on the survival rates of Republican Specialized Scientific Practical 1360 dialysis patients in Uzbekistan Medical Center of Nephrology and Kidney transplantation, Uzbekistan Olimkhon Sharapov Cardiovascular comorbidity and survival in dialysis patients of the Republican Specialized Scientific Practical 1363 rural population of Uzbekistan Medical Center of Nephrology and Kidney transplantation, Uzbekistan

Efficacy of medium cut-off dialyzer on elimination of free light chain

compared to high-flux dialyzer in patients undergoing hemodialysis

Effectiveness of an Iron subsidy program in improving hemoglobin

The association among carotid IMT, PWV and recurrent access failure

Effects of planned exercise training on glomerular filtration rate in

values end stage kidney disease hemodialysis patients

patients with CKD undergoing hemodialysis

in hemodialysis patients

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Seoyoung Lee

Yusuke Ozawa

Seok-Hyung Kim

Vijay Samuel Raj V

DaVita Malaysia, Malaysia

Gangnam Severance Hospital, Korea

Chuncheon Sacred Heart Hospital, Korea

JSS College of Physiotherapy, India

Hemodialy	Hemodialysis			
Abstract No.	. Title	Presenting Author		
1398	Is interdialytic weight gain related to post-dialysis serum sodium levels?	Mehak Zaidi Combined Military Hospital Peshawar, Pakistan		
1425	Diet-related inflammation is associated with malnutrition- inflammation markers in maintenance hemodialysis patients: Results of a cross-sectional study in China using dietary inflammatory index	Guixing Zeng The Second Affiliated Hospital of Guangzhou University of Chinese, China		
1426	Tumoral calcinosis of coccyx area in hemodialysis patient	Hyeon Ah Seo Chosun University Hospital, Korea		
1445	Comparison of characteristics of high Qa/CO in hemodialysis patients	Sun Ryoung Choi Sahmyook Medical Center, Korea		
1469	Efficacy and safety of short term cinacalcet for secondary hyperparathyroidism in hemodialysis patients	Phongsak Dandecha Songklanagarind Hospital, Prince of Songkla University, Thailand		

Hypertens	Hypertension and Vascular Biology			
Abstract No	o. Title	Presenting Author		
1148	Vascular protection of DPP-4 inhibitor in atherosclerosis with CKD rat model	Soon-Kil Kwon Chungbuk National University College of Medicine, Korea		
1240	Modulation of physical activity, adiposity, diet composition and cardiovascular risk factors in type 2 diabetic patients	Vikas Sharma Sarojini Naidu Medical College, India		
1340	Cardio and reno-protective potential of ethanolic extract of madhuca longifolia leaves in a rat model of nitric oxide deficiency	Rahul Kumar Jagannath Kishore College, India		
1382	CD2 biased immune response skews the SAG mediated therapy for a predominant Th1 response to treat kidney infection in experimental infection	Sukrat Sinha Nehru Gram Bharati Deemed to be University, India		

Inherited Kidney Disease (Pediatric Nephrology)		
Abstract No.	Title	Presenting Author
1185	Non-contrast low-dose CT can also be available for volumetry in ADPKD patients	Jin Eop Kim Chuncheon Sacred Heart Hospital, Korea
1286	Prevalence of attenuated mucopolysaccharidosis type I among patients with chronic kidney disease	Junkyu Park School of Medicine, The Catholic University of Korea, Korea

Eujin Park

Hallym University College of Medicine, Korea

Inherited Kidney Disease (Pediatric Nephrology) Abstract No. Title Presenting Author Jin-Soon Suh A pediatric case with Dent disease detected by asymptomatic 1300 The Catholic University of Korea, proteinuria in school urine test Bucheon St. Mary's Hospital, Korea Genetic analysis of the gitelman syndrome coexisting with Se Jin Park 1364 osteogenesis imperfecta Eulji University Hospital, Korea Su Yeon Hong Incidence and clinical course of non-typhoidal salmonella enterocolitis 1372 The Catholic University of Korea, induced acute kidney injury Uijeongbu St. Mary's Hospital, Korea

Sex differences in renal prognosis of childhood onset lupus nephritis

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Non-dialysis CKD		
Abstract	No. Title	Presenting Author
1030	Clinical significance of serum creatinine-to-cystatin C ratio on renal outcomes in non-dialysis-dependent CKD patients: Results from the KNOW-CKD study	Donghyuk Kang Korea University Guro Hospital, Korea
1034	Urate-lowering efficacy and renal safety of febuxostat in patients with advanced chronic kidney disease not yet on dialysis: A meta-analysis of observational studies	Woo Yeong Park Keimyung University School of Medicine, Keimyung University Kidney Institute, Koro
1042	The estimated mediating roles of anemia-related variables in the association between kidney function and mortality: A National Health and Nutrition Examination Survey (NHANES) study	Kyun Young Kim Seoul National University Hospital, Korea
1055	Low klotho/fibroblast growth factor 23 ratio is an independent risk factor for renal progression in chronic kidney disease: The KNOW-CKD study	Hyo Jin Kim Pusan National University Hospital, Korea
1070	Comparison of cardiovascular event predictability between 2009 CKD- EPI equation and new 2021 CKD-EPI equations in Korean chronic kidney disease cohort: From KNOW-CKD study	Ji Hye Kim Seoul National University Hospital, Korea
1102	The relationship between the degree of diabetic retinopathy and advanced chronic kidney disease in elderly type 2 diabetic patients	Seong Gyu Kim Daegu Catholic University Medical Center, Korea
1106	Mechanism of nuclear receptors and Aquaporin 2 as a mechanism of renal water regulation by abnormal lipid metabolism	Se-Hyun Oh Kyungpook National University Hospital, Korea
1111	Analysis of nutrient intake and diet quality in chronic kidney disease patients not on dialysis : A cross-sectional study	Jeong Eun Kim Kyung Hee University, Korea

Abstract No.	Title	Presenting Author
1123	Association between serum sodium concentration and coronary artery calcification in non-dialysis chronic kidney disease: Results from the KNOW-CKD study	Chanwoo Nam University at Buffalo Jacobs School of Medicin and Biomedical Sciences, United States
1151	Impact of pregnancy on the progression of total kidney volume in autosomal dominant polycystic kidney disease	Jin Hyuk Paek Keimyung University School of Medicine, Korea
1170	Waist-hip ratio measured by bioelectrical impedance analysis as a valuable predictor of chronic kidney disease development in a middleaged population	Younghoon Song Korea University Guro Hospital, Korea
1182	Atherogenic indices and the risk of development and progression of chronic kidney disease: Results from Gangnam Severance Medical Cohort (GSMC), 2006-2021	Donghwan Oh Gangnam Severance Hospital, Korea
1184	Diastolic heart dysfunction and progression of chronic kidney disease: Analysis from the KNOW-CKD study	Eunjeong Kang Ewha Womans University Medical Center, Korea
1186	24, 25-dihydroxy vitamin D and vitamin D metabolite ratio as vitamin D biomarkers in chronic kidney disease	Seunghye Lee Gyeongsang National University Hospital, Korea
1228	Behavioral changes and risk perception among chronic kidney disease patients after COVID-19 pandemic	Jeonghwan Lee SMG-SNU Boramae Medical Center, Korea
1256	The Effect of AST-120 on regulatory T cell population in patients with chronic kidney disease	Nagyeom Lee Kosin University Gospel Hospital, Korea
1289	Association between consumption of dietary supplements and chronic kidney disease prevalence in the Korean adult population	Yina Fang Korea University Anam Hospital, Korea
1302	Relationship between dietary carbohydrate-to-fiber intake ratio and prevalent chronic kidney disease: Korean National Health and Nutrition Examination Survey (KNHANES) 2016-2019	Eui Suk Chung Soonchunhyang University Seoul Hospital, Korea
1304	Clinical assessment of rapid progressor in ADPKD: A preliminary result from RAPID-ADPKD (Retrospective epidemiologic study of Asian-Pacific patients with rapid disease progression of autosomal dominant polycystic kidney disease)	Yun Kyu Oh SMG-SNU Boramae Medical Center, Korea
1314	Impact of the risk perception of COVID-19 pandemic on physical activity and body weight in CKD patients	Yaerim Kim Keimyung University School of Medicine, Korea
1324	Dietary education may reduce blood Cd and Hg levels in chronic kidney disease patients with higher blood Cd and Hg levels	Dong Eun Yang Dong-A University Hospital, Korea

Non-dialysis CKD Abstract No. Title **Presenting Author** Efficacy and cost-effectiveness of darbepoetin alfa once every 4 weeks Kyung Ho Lee 1334 for the correction of anemia in patients with chronic kidney disease not Soonchunhyang University Bucheon Hospital, on dialysis in Korea Korea Bernadette Magsalin Validation of the kidney failure risk equation in adult Filipino patients 1362 St. Luke's Medical Center Quezon City, with chronic kidney disease: A single center study **Philippines** The effect of statins on mortality of patients with chronic kidney Gang Jee Ko 1373 Korea University Guro Hospital, Korea The necessity of early HBV vaccination in diabetic elderly patients with Young Sung Boo 1378 chronic kidney disease Dankook University Hospital, Korea Joseph San Pedro Chronic kidney disease in hyperuricemic patients at the social service 1408 St. Luke's Medical Center Quezon City, out-patient department of St. Luke's Medical Center - Quezon City **Philippines** Huge thrombosis of inferior vena cava and bilateral renal vein in Wonju Yoon 1427 membranous nephropathy patient Chosun University Hospital, Korea Abdominal aortic calcification and cardiovascular outcomes in Sang Heon Suh 1438 chronic kidney disease: Findings from KNOW-CKD study Chonnam National University Hospital, Korea

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Peritoneal Dialysis		
Abstract No.	Title	Presenting Author
1065	Pleuroperitoneal leakage: Case report	Simona Cinaglia Istituto Nazionale Ricerca E Cura Dell'Anziano (Inrca), Italy
1072	Differences in outcome of peritoneal dialysis patients according to characteristics of facility and patients: Results from The Peritoneal Dialysis Outcomes and Practice Patterns Study (PDOPPS) Korea	Seon-Mi Kim Seoul National University Hospital, Korea
1130	Case study conservative management pleuroperitoneum leak, rare complication of CAPD	Haryono Yuniarto FKKMK UGM/RSUP Dr Sardjito, Indonesia
1213	5-HT2/5-HT2B receptor antagonism abrogates fibrotic potential of peritoneal fibroblasts by targeting STAT3 pathway in CAPD patients	Saurabh Chaturvedi GSVM Medical College, India

Urinary calcium excretion and kidney stone in ADPKD patients

Yaerim Kim

Keimyung University School of Medicine,

Peritoneal Dialysis Abstract No. Title Presenting Author Haeun Lee Effect of meteorological factors on the incidence of peritoneal dialysis-1253 The Catholic University of Korea, related peritonitis Seoul St. Mary's Hospital, Korea The relationship of extracellular fluid/intracellular fluid volume ratio Yun Jung Oh 1273 with death and cardiovascular events in peritoneal dialysis patients Cheju Halla General Hospital, Korea Cold weather's effect on peritoneal dialysis-related peritonitis: A Chinakorn Sujimongkol 1423 mixed-methods approach Loei General Hospital, Thailand

	Transplantation		
Abstract No.	Title	Presenting Author	
1032	Evaluating glomerular filtration rate in healthy potential kidney donors	Thanh-Tam Tran-Thai Can Tho University of Medicine and Pharmacy, Vietnam	
1038	Impacts of sclerostin on cardiovascular and bone mineral outcomes in kidney transplantation patients	Hee Byung Koh Severance Hospital, Korea	
1043	Discovery of cellular and molecular pathways involved in the development of anti HLA antibody through single cell RNA sequencing in highly sensitized mouse model	Hanbi Lee The Catholic University of Korea, Seoul St. Mary's Hospital, Korea	
1050	Cardiovascular effect of metformin in kidney transplant recipients with post-transplantation diabetes mellitus	Dongyeon Lee Asan Medical Center, University of Ulsan College of Medicine, Korea	
1087	Impact of low level donor-specific HLA antibodies in living and deceased donor kidney transplantation: A nationwide cohort study	Haeun Lee The Catholic University of Korea, Seoul St. Mary's Hospital, Korea	
1101	Histopathological changes based on a 12-Month protocol biopsy in kidney transplant recipients	Jungheon Kwon Keimyung University School of Medicine, Keimyung University Kidney Institute, Kore	
1107	Impact of cytomegalovirus and BK virus infection on clinical outcomes in kidney transplant recipients	Woo Yeong Park Keimyung University School of Medicine, Keimyung University Kidney Institute, Kore	
1125	Effect of pretransplant dialysis vintage on clinical outcomes in deceased donor kidney transplant	Sangdon Park Kyungpook National University Hospital, Korea	

Transplantation		
Abstract No.	Title	Presenting Author
1126	Incidence of cardiovascular events and mortality in kidney transplant recipients compared to general population in Korea	Jung Hwa Ryu Ewha Womans University Medical Center, Korea
1128	The case series of erythrocytosis after kidney transplantation	Dwita Dyah Adyarini RSUP Dr Sardjito, FKKMK Universitas Gadjah, Indonesia
1142	Regulatory T cell populations may be associated with transplant outcomes	Yanghyeon Kim Kosin University Gospel Hospital, Korea
1146	Clinical benefits of coronary computed tomographic angiography to prevent cardiovascular outcomes in renal transplant recipients	Ga Young Heo Severance Hospital, Korea
1169	Interactive impact of tacrolimus inter-patient variability and intra- patient variability in allograft outcomes in kidney transplantation	Yohan Park Konyang University Hospital, Korea
1187	Gender disparity in kidney transplantation in Korea	Miyeun Han Hangang Sacred Heart Hospital, Korea
1195	A case of simultaneous living donor kidney transplantation and hand- assisted laparoscopic nephrectomy	Yoojin Lee Inje University Haeundae Paik Hospital, Korea
1201	A case report of recurrent focal segmental glomerulosclerosis and antibody-mediated rejection after kidney transplantation	Eu Jin Lee Chungnam National University Hospital, Korea
1214	Impact of blood pressure on kidney outcomes after kidney transplantation	Kyungwon Kim Severance Hospital, Korea
1216	Impact of iron status on kidney outcomes in kidney transplantation patients	Hyo Jeong Kim Severance Hospital, Korea
1218	Long-term clinical outcomes in ABO incompatible kidney transplantation in patients with high baseline anti-A/B antibody titer	Sang Hun Eum The Catholic University of Korea, Incheon St. Mary's Hospital, Korea
1224	Rare, but severe side effects of mycophenolate mofetil in pediatric kidney transplant patients	Jinwoon Joung Samsung Medical Center, Korea
1232	Effect of pre-transplant or post-transplant diabetes mellitus on allograft rejection in kidney transplant recipients	Hyo Jin Kim Pusan National University Hospital, Korea
1255	Association of serum osteoprotegerin with vascular calcification or stiffness and cardiovascular outcomes in kidney transplant patients: Results from KNOW-KT study	Hee Jung Jeon Kangdong Sacred Heart Hospital, Korea

Transplantation		
Abstract No.	Title	Presenting Author
1260	Malignancies after renal transplantation in Korean recipients	Jeesu Min Seoul National University Hospital, Korea
1263	Eculizumab therapy for antibody-mediated injury in kidney transplant recipients	Sujung Heo Kosin University Gospel Hospital, Korea
1284	Varicella infection after renal transplantation	Abhilash Chandra Dr. Ram Manohar Lohia Institute of Medical Sciences, India
1288	Relationship between prognosis and kt/V after kidney transplantation in peritoneal dialysis patients	A Young Kim Yeungnam University Medical Center, Korea
1290	Factors affecting time to transplantation in living-donor kidney transplantations: A single centre study from Sri Lanka	Eranga Wijewickrama Faculty of Medicine, University of Colombo, Sri Lanka
1313	Low dose valganciclovir as a pre-emptive therapy is effective for cytomegalovirus infection in kidney transplantation: A single-center experience	Haekyung Lee Soonchunhyang University Seoul Hospital, Korea
1333	Risk prediction model for kidney function decline in living kidney donors: A model development and external validation study	Sehoon Park Seoul National University Hospital, Korea
1348	Impact of pre-transplant body mass index on post-transplant malignancy after kidney transplantation	Sojung Youn The Catholic University of Korea, Eunpyeong St. Mary's Hospital, Korea
1356	Incidental renal cell carcinoma in bilateral native nephrectomy of renal transplant recipient with autosomal dominant polycystic kidney disease	Byung Chul Shin Chosun University Hospital, Korea
1366	Impact of early rejection and ABO-incompatible kidney transplantation on chronic antibody-mediated rejection and graft outcome	Ga Young Heo Severance Hospital, Korea
1381	The effect of cardiovascular risk factors on clinical outcomes after kidney transplantation: A nationwide prospective cohort study	Jeonghwan Lee SMG-SNU Boramae Medical Center, Korea
1407	Comparison of early and late pneumocystis jirovecii pneumonia in kidney transplant patients	Gongmyung Lee Severance Hospital, Korea
1432	Comparison of combination preemptive therapy of high-dose IVIG and rituximab versus rituximab in kidney transplant patients with subclinical de novo donor-specific antibodies: A randomized clinical trial	Hyung Woo Kim Severance Hospital, Korea
1441	Effect of anti thymocyte globulin induction therapy in kidney transplantation network meta-analysis using recent data	Seongho Jo Inha University Hospital, Korea
1446	Clinical characteristics and outcomes of kidney transplantation in autosomal dominant polycystic kidney disease patients	Jiyeon Myung Severance Hospital, Korea
1471	Circulating endothelial microparticles and von willebrand factor in renal antibody-mediated allograft rejection	Shubhi Kamthan SGPGIMS, India

Others Abstract No. Presenting Author Title Seung Yun Chae 1008 Urea suppresses the alternative activation of murine macrophages Korea Advanced Institute of Science and Technology (KAIST), Korea Association of bladder post-void residual volume and urinary tract Natalie Maramba 1012 infection in adult females San Pedro Hospital, Inc., Philippines Exploration of potential chronic kidney disease markers in breath Jieun Oh 1019 through TD-GCMS (Thermal Desorption Gas chromatography Mass-Kangdong Sacred Heart Hospital, Korea spectrometry) Peripheral arterial disease among chronic kidney disease patients Van Modesto 1029 undergoing hemodialysis in Remedios Trinidad Romualdez Hospital Remedios Trinidad Romualdez Disease. Hemodialysis Unit from July 2019 to July 2020 **Philippines** Prevalence and determinants of peripheral neuropathy among adult Prakash Mathivalagen 1037 type II diabetes mellitus patients attending a non-communicable Indira Gandhi Medical College & Research disease clinic in Rural South India Institute, India Jeona-Myuna Ahn 1040 A case report of primary squamous cell carcinoma in the kidney Bongseng Memorial Hospital, Korea Sourabh Jain Evaluation of synergestic antiurolithiatic effect of tribulus terrestris 1058 Arihant School of Pharmacy and Biofruit extract with selected Indian medicinal plants Research Institute India The impact of COVID-19 pandemic on psychological and socioeconomic Jane Angele Pasamante 1066 well-being of hemodialysis patients in Makati Medical Center: An Makati Medical Center, Philippines analytical cross-sectional study Kyungmi Lee The higher the CKD grade, the higher the psychological stress in 1105 Soonchunhyang University Cheonan Hospital, patients with CKD during COVID-19 pandemic Danar Anggrahini Kusuma Dewii 1138 Giant polycystic kidney disease. Need or not nephrectomy? Gajah Mada University, RSUP.Dr.Sardjito Yogyakarta, Indonesia Yun Young Choi 1160 Persistent benign proteinuria associated with CUBN variants Seoul National University Hospital, Korea Aakanchha Jain In-situ thermoresponsive mucoadhesive gel for sublingual delivery of 1179 National Institute of Pharmaceutical glucagon like peptide-1 receptor agonist Education and Research, India Administration of eculizumab in atypical hemolytic uremic syndrome: A Young Kim 1258

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Two case reports

Yeungnam University Medical Center, Korea

Others Abstract No. Title Presenting Author Tae Won Lee 1271 Acute pyelonephritis prevalence, antibiotic resistance, and prognosis Gyeongsang National University Changwon Hospital, Korea Sang Hyuk Kwak 1276 Practical urea reduction ratio prediction using a neural network Kwak Clinic, Korea Hyun-Jung Kang The differential roles of leptin and adiponectin on phenotype transition 1346 Ewha Womans University Medical Center, of human peritoneal mesothelial cells Heeiin Cho 1355 Potential nephrotoxicity of ganoderma lucidum Chung-Ang University Hospital, Korea The effects of air pollution on mortality of chronic kidney disease In Sung Park 1374 according to statin usage Dongguk University Ilsan Hospital, Korea **Dinesh Kumar Patel** Biological role of cephaeline against kidney disorders: Therapeutic 1391 Sam Higginbottom University of Agriculture, benefit in the medicine Technology and Sciences, India Absence of nephrogenic systemic fibrosis in patients with end-stage Yeonhee Lee 1392 renal disease and prophylactic hemodialysis for protection against Uijeongbu Eulji Medical Center, nephrogenic systemic fibrosis Eulji University, Korea **Dinesh Kumar Patel** Biological effect of engeletin on lung cancer through scientific data 1411 Sam Higginbottom University of Agriculture, analysis of scientific works Technology and Sciences, India Gede Wira Mahadita Probiotic supplementation in chronic kidney disease: A meta-analysis 1429 Faculty of Medicine, Udayana University, of the research Indonesia **Eui Suk Chung** Change in ectopic fat depots after bariatric surgery is associated with 1444 Soonchunhyang University Seoul Hospital, improved metabolic profile To evaluate the predictive ability of biomarkers for major adverse Kushal Kekan 1450 kidney events (Make 30) at day 30 in critically ill cirrhotic patients PGIMER. India leeeun 0 Renal outcomes of MMF induction therapy according to the histological 1454 The Catholic University of Korea, classification in patient with Lupus Nephritis; CMC GN registry St. Vincent's Hospital, Korea Hvokveona Yu Sarcopenia, nutritional status and mortality risk assessed using 1461 Myongji Hospital, Hanyang University College

bioimpedance spectroscopy in the elderly living in long-term care facility

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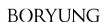


















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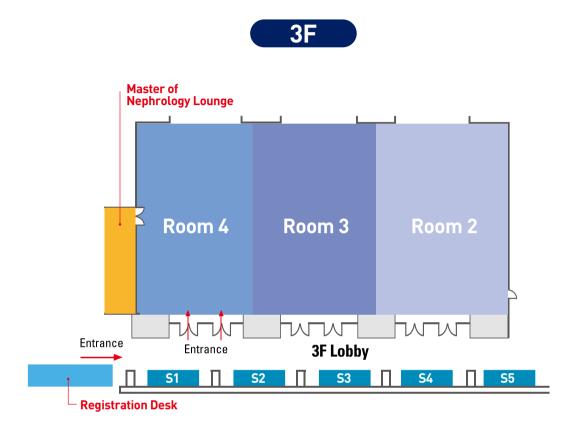






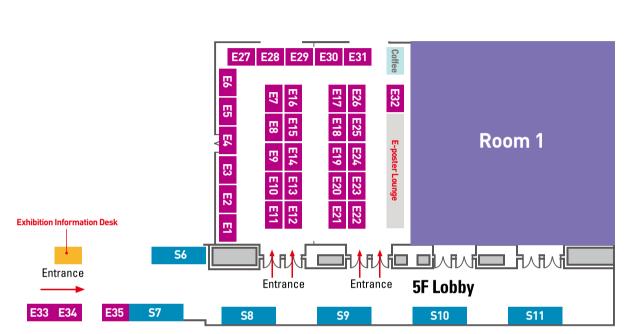






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S1	Baxter
S2	Fresenius Medical Care Korea
S3	Yuhan
\$4	Kyowa Kirin Korea
S5	HK Inno.N





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S 6	HANDOK Inc.
S7	Astrazeneca
S8	SK Chemicals
S9	Korea Otsuka Pharmaceutical Co., Ltd.
S10	Boryung Pharmaceutical
S11	JW Pharmaceutical
E1 & E2	Astellas Pharma Inc.
E3 & E4	SANOFI KOREA
E5 & E6	SANOFI KOREA
E7	Bukwang Pharm. CO.,LTD

부스 번호	업체명
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E9	Hanmi Pharm.Co.,Ltd.
E10 & E11	Bayer Korea
E12 & E13	Alvogen Korea
E14	ChongKunDang Pharm.
E15	Novo Nordisk Pharma Korea, Ltd.
E16	WS medical.Co.,Ltd.
E17	Bard Korea
E18 & E19	ORGANON
E20 & E21	NOVARTIS KOREA
E22 & E23	Celltrion pharm

부스 번호	업체명
E24	B. Braun Korea
E25 & E26	NIPRO Dongduk medical
E27 & E28	Daewon Pharmaceutical
E29	AY Trading Co., Ltd.
E30	Pfizer Korea
E31	HAJ00 Corp.
E32	Healthbreeze
E33	K-Bio HealthCare, Inc.
E34	SYNOPEX INC.
E35	Rgenorgano biotechnology





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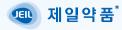
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Reference 1. Marbury et al, Pharmacokinetics and Safety of Intravenous Ferric Pyrophosphate Citrate: Equivalence to Administration via Dialysate, The Journal of Clinical Pharmacology 2022, Q(0) 1-8 2. 트리페릭주 제품하가사항 의약품안전나라 https://nedrug.mfds.go.kr/index Accessed APR-01-2022









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Dysmorphic RBC(%) *Manual microscopy method	0.683	<0.001	57.7	37.5

Ref. Cho H et al. Urinary RBC distribution for glomerular hematuria. Ahn Lab Med 2022;42:160-168.



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Reference 1. 파브라자임*35밀리그램(아갈시다제베타) 국내 제품설명서(2021.01.12).





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' 2022년 2월부터 재공급 * Sitting DBP < 90 mmHg # Losartan Potassium 50 mg/Amlodipine camsylate 7.84 mg (Equivalent to amlodipine 5 mg) AML : Amlodipine, DBP : Diastolic blood pressure

Study design a. This was a double-blind, multicenter, randomized trial of hypertensive patients (N=185) aged ≥18 years taking amilodigine 5 mg during the run-in treatment period but failed to achieve sitting diastolic blood pressure (DBP) < 90 mmHg. This study compared the clinical efficacy and safety profile of fixed-dose combination of amilodipine/losartan 5/50 mg and amilodipine 10 mg monotherapy in essential hypertensive patients who respond poorly to amilodipine 5 mg monotherapy. After randomization into the amilodipine/losartan 5/50 mg fixed-dose combination group (n=92) and the amilodipine 10 mg monotherapy group (n=93), treatment was maintained without dose escalation for 8 weeks. The primary efficacy evaluation of noninferiority was tested using a confidence interval approach with a 975% 1-sided lower confidence limit using the average difference in DBP measured at baseline and 8 weeks. The primary efficacy evaluation of reatment relative to the baseline (vist 2) value.

ed Safety information 코지[™]에스큐점 (로**시트단결을 임르디만 감상(점)** 5/50 mg, 5/100 mg, 10/50 mg [출동·출과] 1. 양로다면 또는 로사르란 단독요번으로 활입이 작절하게 조절되지 않는 본해성 고혈압, 2. 제2기 고혈압 환자에서 치료 목표 혈압에 도달하기 위해 복합제 투여가 필요한 환자의 초기 요법 [출합·충 약의 권용향은 1일 1청 1청으로 4사와 관계점이 문과 함께 복용한다. 가능하면 매일 같은 시간에 복용할 것이 권용당다. 이 약을 투여하기 전에 가까의 성본(임로디만 또는 로사른탁)으로 용장을 조절할 것이 권망되나, 다음과 같이 개계의 성본에 대한 단독요반으로 혈압이 조절되지 않는 경우이 약으로 나로 전용하는 것을 고려할 안동디판과 로사르탄을 병용으로 복용하고 있는 현자인 경우, 복용의 판리형을 위하여 이 역사개의 주상분 환명이 동일한 복합제으로 전환한 수 있다. 제2기 교일한 환자에게 이 약을 초기요법으로 투여하기 전에, 가지치 혈압, 치료 목표 혈압, 단일에 대해 보험제의 예상 치료 목표 도달 정도 등을 고려하여 투이 여부를 경용해야 한 이 약 5/50 일곱1만을 1일 1회 투여하면, 오구는 투여 후에도 열망이 충분한 초절되지 않는 경우, 1일 11 (1/50 일곱1관에으로 정한 수 있다. 제2기 고함인 환자에게 대나 경시되면서, 보조스로 제공하는 약물을의 투여 시, 대아 및 산용이에게 순실 및 사명까지도 일었는 상다. 당수자소들에 발생된 대학의 생각 기원 기원에 가장되었다. 수 있다. 당인대라고 단시되는 발생으로 복용하고 있는 화가인 경우, 복용의 인간에 역사하여 주성본 항망이 못할어 녹였다. 제2기 고일한 환자에게 이익을 초기업에고 무이가 100, 170지 항없, 12, 목표표 없는 단일로 대체 변화의 여성 지는 목표 도달 정도 등을 고려하여 뛰어 대부를 생용에는 다는 다는 상이 약 150가 되어 100를 가는 다는 다는 이약 150가 전에 100를 가는 이 100를

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2022년 5월 1일부터 적용

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Reference 1 William R Whiel et al. Effects of the Annipetrosin Recentur Ripcker Azilsartan Methyomil Versus Olmesartan and Valsartan on Ambulatory and Clinic Blood Perssure in Patients With Stanes 1 and 2 Hypertension 1011:57-413-420









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현수이 약의 소료비를 현덕적 경구투여시 결정해석 경정해양 등이 보고되었다. 강이 약의 유사 약됐음리스타벤설론산나트롭의 소료비를 현덕적 경구투여시 소화시 천공, 정점적 교사, 소중동안과 결정교사 등이 보고되었다. 강이 약 경구투여시 소화관에 서의 추적을 매하기 위해 반비가 발생하지 않도록 주의한다. - 작용투여 관련 식 동물실행정토에서 소료비톨의 직용투여에 위해 정책교사가 보고되었으며, 물리스타벤설문산형 양이운의 소료비톨 현덕적을 직공투여한 경우에도 결정교사가 보고되었다. 따 검사, 이 약은 작용투여하는 경우에는 소료비를 용작을 사용하지 않도록 한다. 당이 약 무역 후 참면에 잔뜩되지 않도록 충분히 제가하여야 한다. 특히 정상적인 배설이 근관한 환자인 각우 다른 적절한 방법을 이용하여 이 약을 정관에서 배설시킨다. [모장단 위] 100로 [저항방법 및 사용기간] • 기명용기 실임(사-30°C)보안 - 사용기간, 산세/제조임교부터 60°N발(하), 과립제사조임교부터 39°N발(하) ※ 자세한 내용은 제품설망서 전문을 참고하시기 바랍니다.

카리메트 현탁액

[효능 · 효과] 고김화혈증 [용법 · 용경] 성인: 1일 3~6포(물리스타덴설폰산킬슬으로서 15~30g)을 2~3회로 나누어 경구 투어한다. [사용상의 주의사항] 1. 다음 환자에는 투어하지 말 것. 1) 고갈숨혈증 환자 2) 부감성선가능형진증 환재이온교환으로 혈증갈승 동도가 상승할 수 있다) 3) 다발성 골수증 환재이온교환으로 혈증칼승도가 상승할 수 있다) 4) 사르코이드증 또는 전이성 암종 환자 5) 폐색성 장질환 환재정관현공이 나타날 수 있다. 6) 1개월 미만의 신생아 (중래 3. 이상번응 : 이 약에 대한 임상시험 및 시판 후 안전성 조사결과, 총 (182에 경구투여시 15)광(26%에서 15)간의 이성반응이 보고되었다. 이 중 가장 많이 보고된 이상반응은 번비(102년, 9.2%, 식욕투전(16건, 1.5%, 구액(16건, 1.6%, 저밥품함층 (13건, 1.1%) 등이었다. (중력) 9. 적용상의 주의 1) 이 약은 경구로만 투어한다. 강 이 약의 유사 약물(열리스티렌설본산나트롭)의 소료비돌 현대핵 경구투여시 소장대 천공, 장점막 괴사, 소장종왕과 결장괴사 등이 보고되었다. 3) 이 약 경구투여시 소화판에서의 축작을 피하기 위해 반비가 발생하지 않도록 주의 한다. 4) 이 약과 알긴산나트륨과의 병용투여로 소회관 내 불용성 절이 발생하였다는 보고가 있다. [포장단위] 100포 [<mark>저장방법 및 사용기간]</mark> 기밀용기, 실임(~30℃)보관 제조일로부터 36개월(3년) 또 자세한 내용은 제품설명서 전문을 참고하시기 바랍니다.

수입자 (카리메트현탁액)



판매자 (카리메트산/과립/현탁액) Alvogen







MACE, 3-point major adverse cardiovascular events, 4P-MACE, 4-point major adverse cardiovascular events, 4D, confidence internal, CV, cardiovascular, DM, diabetes mellitus, HbA_{io}, glycosylated haemoglobin, RAAS, renin-angiotensin-aldosterone system, RRR, relative risk reduction, erences 1. Zimman B, et al., N Engl J Med. 2015;373:2117, 2. Roden M, et al., Lancet Diabetes Endocrinol, 2013;1:208, 3. Roden M, et al., Cardiovas Diabetol, 2015;14:154.

JARDIANCE* (empagliflozin) 10mg, 25mg [QUALITATIVE AND QUANTITATIVE COMPOSITION] JARDIA

[OUALTINE AND QUANTITATIVE COMPOSITION]. APRILANCE: [emposition or labeles 127 rough Emposition or labeles 128 rough Emposition Emposition

$\textbf{JARDIANCE\,DU0}^{\circ}\, \textbf{(Empagliflozin,\,Metformin\,hydrochloride)\,5/500mg,\,5/850mg,\,5/1000mg,\,12.5/500mg,\,12.5/850mg,\,12.5/1000mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/850mg,\,12.5/8$

[QOALTITIZE AND QUANTITITIZE COMPOSITION] SOFTION _ Empaglifican Sing. Melforms hydrochrotroide [FF] 850mg _ 17000mg _ 17000mg





The 42nd Annual Meeting of the Korean Society of Nephrology



KSN 2022 Secretariat

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