

#NephJC Transcript

Healthcare social media transcript of the #NephJC hashtag.

Wed, February 13th 2019, 9:30AM – Wed, February 13th 2019, 12:30PM (America/Toronto).

See #NephJC Influencers/Analytics.



Anace Pastor @anace710

3 days ago

RT @divyaa24: Do we need genetic diagnosis in all our CKD pts? Is it justified to use resources over diagnosis in a developong country like...



Melissa @melbenz25

3 days ago

RT @gratefull080504: #nephjc We are willing to spend over \$34 billion for #dialysis that does not fully rehabilitate a person living with...



Dr. Carlos Orantes 🇲🇵 @neforantes

3 days ago

@MarvinGonzlez16 @opsoms @ISNeducation @ReviewMedicc Hi @MarvinGonzlez16 #NephJC Regarding #CKDu aka #MeN #CINAC we proposed this hypothesis in which the genetic factors must be included in the comprehensive approach @ISNeducation <https://t.co/BKSxSkalEv> #GapOfKnowledge <https://t.co/wzE5DnEdD5>



Vijay Patil @drvjpatil7

3 days ago

RT @edgarvlermamd: Genetic Testing for Chronic Kidney Disease!?! Check out the write up by @rheault_m #NephJC #Nephpearls <https://t.co/d9G...>



Aakash Shingada @aakashshingada

3 days ago

Going to attempt and define certain terms relevant for todays discussion.. #nephJc I am not an expert, so feel free to correct me if i am wrong



Aakash Shingada @aakashshingada

3 days ago

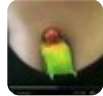
Exome - part of the genome composed of exons, the sequences which, when transcribed, remain within the mature RNA after introns are removed by RNA splicing and contribute to the final protein product encoded by that gene. #NephJC



Aakash Shingada @aakashshingada

3 days ago

Proband – In genetics, a proband, is a particular subject (person or animal) being studied or reported on. In most cases, the proband is the first affected family member who seeks medical attention for a genetic disorder #NephJC



nephroVIP @nephroVIP

3 days ago

Kidney wurde soeben publiziert! <https://t.co/KstOeCnPKH> Vielen Dank an @BKONASIS @OnymOnymO @zickenalarm1900 #nephjc #nephrology



Aakash Shingada @aakashshingada

3 days ago

Lets talk about the genetic testing modalities - Next Gen Sequencing NGS utilizes targeted capture and massively parallel sequencing to simultaneously assess variation in selected regions of the genome, enabling rapid and cost-effective large-scale genetic investigation #NephJC <https://t.co/H6Jl1fVaDi>



Krishna K Agrawal @agrawalkris

3 days ago

@aakashshingada I have been using NGS for diagnosis of MODY #NephJC



Aakash Shingada @aakashshingada

3 days ago

Whole Exome Sequencing / Whole Genome Sequencing - WES and WGS provide more comprehensive testing than targeted NGS panels because they assess variation across the genome.#NephJC <https://t.co/SnicCkSCVW>



Aakash Shingada @aakashshingada

3 days ago

Today's paper involved subjects from the AURORA and CUMC Cohorts - what are these? #NephJC



Aakash Shingada @aakashshingada

3 days ago

1 Aurora Cohort - 1,128 participants were from the multi-center AURORA (A Study to Evaluate the Use of Rosuvastatin in Subjects on Regular Hemodialysis: An Assessment of Survival and Cardiovascular Events <https://t.co/NnxA0n501B> #NephJC



Arvind Canchi 🇮🇳 @arvindcanchi

3 days ago

RT @aakashshingada: Whole Exome Sequencing / Whole Genome Sequencing - WES and WGS provide more comprehensive testing than targeted NGS pan...



Aakash Shingada @aakashshingada

3 days ago

2. CUMC Cohort - The remaining 2,187 participants were from the Columbia University Medical Center (CUMC) Genetic Studies of Chronic Kidney Disease biobanking cohort #NephJC



Arvind Canchi 🇮🇳 @arvindcanchi

3 days ago

RT @aakashshingada: Lets talk about the genetic testing modalities - Next Gen Sequencing NGS utilizes targeted capture and massively paral...



Arvind Canchi 🇮🇳 @arvindcanchi

3 days ago

RT @divyaa24: Do we need genetic diagnosis in all our CKD pts? Is it justified to use resources over diagnosis in a developong country like...



Nephrology Jrnl Club @NephJC

3 days ago

Hi everyone, it's time for #NephJC. Welcome one and all to tonight's discussion about the fascinating topic of exome sequencing in kidney diseases. I am @aakashshingada your host for tonight, tuning in from New Delhi. Lets begin! #nephJC



Nephrology Jrnl Club @NephJC

3 days ago

Go through this thread to understand few terms related to todays chat Exome / NGS ? WES /WGS / Aurora /CUMC #nephjc



Nephrology Jrnl Club @NephJC

3 days ago

Tonight we'll be discussing this brilliant paper from @ColumbiaKidney @kirylukk published in @NEJM <https://t.co/6FzI02iRGE> #NephJC



Divya Bajpai 🇮🇳 @divyaa24

3 days ago


Hi everyone Divya here from Mumbai. no COI. Manage lots of adults and pediatric CKD of unknown cause hence particularly excited for this chat #nephjc





Nephrology Jrnl Club @NephJC


3 days ago


Please introduce yourself (even if you're lurking) and declare any COIs. Anyone new to #NephJC is always more than welcome. Here's a quick guide on 'How to NephJC.' A particularly warm welcome to new #NSMC interns joining tonight #NephJC DO not forget the hashtag #NephJC <https://t.co/40PIrnXQxC>


 **Nephrology Jrnl Club @NephJC** 3 days ago
Routine housekeeping out of the way first: We recommend you use native client in browser <https://t.co/1SZrrvB3Yf> Tweetdeck. Tchat will truncate tweets at 140 #NephJC


 **Nephrology Jrnl Club @NephJC** 3 days ago
Check out this great summary by @yasar_caliskan and @jenniejin <https://t.co/HRfctGfo1b> and a nice commentary by <https://t.co/RZO743DxFw> by @rheault_m #NephJC


 **Krishna K Agrawal @agrawalkris** 3 days ago
Hi This is Krishna K Agrawaal from Kathmandu, Nepal. No COI to declare. Very much interested in Genetics and infact worked on MODY by NGS. #NephJC @NephJC


 **Arunkumar @Arunkr_Dr** 3 days ago
Hello!!! Arunkumar from Delhi.. no COI... #NephJC

 **Lovy @drlovygaur** 3 days ago
RT @aakashshingada: Going to attempt and define certain terms relevant for todays discussion.. #nephJc I am not an expert, so feel free to...

 **Krithika Mohan @krithicism** 3 days ago
Hi everyone, Krithika from Hyderabad, no COI, mostly lurking today #NephJC

 **Vineet Behera @BeheraVineet** 3 days ago
#nephjc Hi all..this s vineet frm asvini hospital mumbai..no coi.. Truly excited about this jc

 **Divya Bajpai 🇮🇳 @divyaa24** 3 days ago
@agrawalkris @NephJC Hi krishna, welcome to #nephjc

 **Arvind Canchi 🇮🇳 @arvindcanchi** 3 days ago
@NephJC @aakashshingada Hi @aakashshingada and #nephjc. This is Arvind, Nephrologist from Bangalore, that is slowly heating up. The Indian summer is round the corner. Should plan to take the Bangalore Metro to beat the traffic and the heat. Will lurk today. <https://t.co/Pm8qmjiDrk>

**Nephrology Jrnl Club @NephJC**

3 days ago

@Arunkr_Dr Hi! Welcome to #NephJC Go #NSMC

**Divya Bajpai**  @divyaa24

3 days ago

@Arunkr_Dr Hi arun, welcome to #nephjc

**Mya Htwe Nge** @mhtwenge

3 days ago

Hello, Mya from Myanmar  no COI , Just lurking #nephjc**Nephrology Jrnl Club @NephJC**

3 days ago

Unable to go through the paper or the summary? Worry not! Check this amazing #Visualabstract by @divyaa24 #nephjc <https://t.co/nlZZfYWacX>**Nephrology Jrnl Club @NephJC**

3 days ago

@agrawalkris Hi Krishna! welcome to #nephjc

**Divya Bajpai**  @divyaa24

3 days ago

Welcome to #NephJC

**DrUtkarsh Deshmukh** @DrUtkarsh15Aug

3 days ago

Hi Dr Utkarsh Deshmukh from Kolkata #nephjc

**Divya Bajpai**  @divyaa24

3 days ago

@mhtwenge hi mya welcome to #nephjc

**Nephrology Jrnl Club @NephJC**

3 days ago

@BeheraVineet glad to have you join us #nephjc

**Divya Bajpai**  @divyaa24

3 days ago

@BeheraVineet Hi vineet, welcome to #nephjc

**Divya Bajpai**  @divyaa24

3 days ago

@krithicism Hi kritika, welcome to #nephjc

Nephrology Jrnl Club @NephJC

3 days ago



Abbreviations for tonight NGS = Next generation sequencing WES = whole exome sequencing WGS = whole genome sequencing AURORA cohort - from the study of rosuvastatin in ESRD pts CUMC cohort - pts from Columbia university Medical centre #NephJC

OmarTaco MD, MSc @Errantnephron

3 days ago



Hola ! , I am Omar Taco, nephrologist in Barcelona now #oncall & mostly lurking, #NSMC faculty, my practice is based exclusively in adult patients, no COI #NephJC <https://t.co/6tE6ESZv3e>

Divya Bajpai 🇮🇳 @divyaa24

3 days ago



@DrUtkarsh15Aug Hi utkarsh, welcome to #nephjc

Lovy @drlovygaur

3 days ago



Hi.. this is Lovy.. Nephrology fellow from India... #NephJC amazing introduction

Divya Bajpai 🇮🇳 @divyaa24

3 days ago



@Errantnephron Hi omar, welcome to #nephjc

Nephrology Jrnl Club @NephJC

3 days ago



@Errantnephron Awesome omar! Nice to have you with us! #NephJC

Divya Bajpai 🇮🇳 @divyaa24

3 days ago



@drlovygaur Hi lovy, welcome to #nephjc

Nephrology Jrnl Club @NephJC

3 days ago



T0a: If NGS is a new term for you like it was for me before reading this paper, just check out this amazing video <https://t.co/JWVhc7PABY> #NephJC

Aakash Shingada @aakashshingada

3 days ago



#NephJC hi aakash here from New Delhi. Hosting today..

**Krithika Mohan** @krithicism

3 days ago

RT @NephJC: Abbreviations for tonight NGS = Next generation sequencing WES = whole exome sequencing WGS = whole genome sequencing AURORA co...

**Nephrology Jrnl Club** @NephJC

3 days ago

@drlovygaur Hi lovy!! Rocking post on @RenalFellowNtwk welcome to #NephJC

**Mya Htwe Nge** @mhtwenge

3 days ago

@aakashshingada #nephjc <https://t.co/gUjwJsRZ13>

**Divya Bajpai** IN @divyaa24

3 days ago

@NephJC this video really helped me. I watched it before reading the paper #nephjc

**Nephrology Jrnl Club** @NephJC

3 days ago

T0a: Also check out this great write up for #nephmadness 2015 on 'GWAS in Nephrology vs Next-Generation Sequencing' <https://t.co/yITbBu1yFg> #NephJC

**Nephrology Jrnl Club** @NephJC

3 days ago

RT @mhtwenge: @aakashshingada #nephjc <https://t.co/gUjwJsRZ13>

**Krithika Mohan** @krithicism

3 days ago

RT @mhtwenge: @aakashshingada #nephjc <https://t.co/gUjwJsRZ13>

**Aakash Shingada** @aakashshingada

3 days ago

Good #NSMC presence today at #NephJC @Arunkr_Dr @BeheraVineet @drlovygaur @krithicism and the newly minted mentors myself, @divyaa24 and @mhtwenge!

**Nephrology Jrnl Club** @NephJC

3 days ago

T0b : Applications of Exome Sequencing - Targeted capture & sequencing of the protein-coding regions of the genome through exome sequencing can improve diagnosis & treatment in childhood neurodevelopmental disorders. <https://t.co/uUU1t2t8zz> & <https://t.co/YicoHzc16a> #NephJC

**Divya Bajpai** IN @divyaa24

3 days ago

@NephJC The question is can we extrapolate these findings to adults ? #nephjc

**Nephrology Jrnl Club @NephJC**

3 days ago

Exome sequencing has helped in identifying causal mutations in cancers where genomic diagnosis is routinely used. <https://t.co/JvQiw4LAML> & <https://t.co/A9DQ5XpJPP> #NephJC

**Nephrology Jrnl Club @NephJC**

3 days ago

Mendelian disorders are a leading cause of CKD in children and account for upto 10% in adults. As patients are asymptomatic till advanced stages it becomes difficult to determine the etiology using standard diagnostic procedures & get labeled as CKD of 'unknown' cause #NephJC

**Krithika Mohan @krithicism**

3 days ago

RT @NephJC: Mendelian disorders are a leading cause of CKD in children and account for upto 10% in adults. As patients are asymptomatic til...

**Nephrology Jrnl Club @NephJC**

3 days ago

T0d What percentage of patients with ESKD in your practice have 'unknown' etiology? The Indian CKD registry showed this group to comprise of 16% of our patients. Check out this earlier poll - <https://t.co/XCjKDdDq5B> <https://t.co/VwBbL5mVq6> #NephJC

**Wei Ling Lau, MD FASN @Kidneys1st**

3 days ago

Good morning from California! Lurking for a bit before I have to drive to PD clinic #NephJC

**Mya Htwe Nge @mhtwenge**

3 days ago

@NephJC #nephjc learning exome sequencing procedure <https://t.co/BCL8RgZBdt>

**Nephrology Jrnl Club @NephJC**


3 days ago


T0e Use of exome sequencing in nephrology - Smaller studies support the usefulness of exome sequencing for the diagnosis of early onset nephropathy. <https://t.co/CkQLdGcO10> #NephJC


**Nephrology Jrnl Club @NephJC**


3 days ago


RT @mhtwenge: @NephJC #nephjc learning exome sequencing procedure <https://t.co/BCL8RgZBdt>


 **Arvind Canchi** IN @arvindcanchi 3 days ago
@NephJC Do note that Digumarthi SUDHAKAR from CCMB, Hyderabad gave a splendid talk on the genetics of Uddanam #CKDu during the #ifkcon recently in Chennai. Here is the live stream of that talk <https://t.co/pZy8t2QKFj> #nephjc
<https://t.co/GfcWE0cuio>


 **Divya Bajpai** IN @divyaa24 3 days ago
@NephJC I feel the data in that CKD registry in little old. in recent times probably upto 25% of patients have undiagnosed etiology of CKD #nephjc


 **OmarTaco MD, MSc** @Errantnephron 3 days ago
In patients with #ESRD the prevalence in Spain #unknown etiology kidney disease is around 22% #NephJC <https://t.co/zK4Au5zC45>


 **Nephrology Jrnl Club** @NephJC 3 days ago
RT @arvindcanchi: @NephJC Do note that Digumarthi SUDHAKAR from CCMB, Hyderabad gave a splendid talk on the genetics of Uddanam #CKDu duri...

 **Mya Htwe Nge** @mhtwenge 3 days ago
@NephJC #nephjc ~20% of CKD have unknown cause

 **Divya Bajpai** IN @divyaa24 3 days ago
@Kidneys1st Hi Wei, welcome to #nephjc

 **Krishna K Agrawal** @agrawalkris 3 days ago
@NephJC In my thesis it was 13% in patients on HD #NephJC

 **Nephrology Jrnl Club** @NephJC 3 days ago
@arvindcanchi There was a poster presented by the SGPGI group too at #ISNCON 2017 #NephJC

 **Divya Bajpai** IN @divyaa24 3 days ago
@agrawalkris @NephJC Hey krishna, publish ur work #nephjc



Krithika Mohan @krithicism
@NephJC I'd think about 20 % #nephjc

3 days ago



Nephrology Jrnl Club @NephJC

3 days ago

T0f: The role of exome sequencing in broader ESRD adult population, where most of the cases are sporadic, was unknown until today's NEJM paper came out #NephJC



Vineet Behera @BeheraVineet

3 days ago

@NephJC #nephjc @aakashshingada @divyaa24 @arvindcanchi @mhtwenge Details of NGS and other genetic tests from a good nature review <https://t.co/4fPIUxkuHI>



Arunkumar @Arunkr_Dr

3 days ago

@NephJC @divyaa24 We tend to presume etiologies in many cases especially in diabetics and also in case of CTID when we we can have any number of other causes. #NephJC



Lovy @drlovygaur

3 days ago

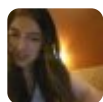
Few points to make.. Genomic studies could open the Pandora's box.. help in better understanding of disease process and might even prevent unnecessary immunosuppression.. #NephJC



Divya Bajpai IN @divyaa24

3 days ago

Yes lots of them labeled as CTID/ HTN nephrosclerosis [still dont know when to use that diagnosis] #nephjc



Anace Pastor @anace710

3 days ago

RT @divyaa24: Yes lots of them labeled as CTID/ HTN nephrosclerosis [still dont know when to use that diagnosis] #nephjc



Nephrology Jrnl Club @NephJC

3 days ago

Lets begin discussing Methods: T1A: Proband only exome sequencing was performed on 3315 pts from 2 independent cohorts. First 1128 were from AURORA which included patients aged 50-80 and all-cause ESKD on HD >3 months. #NephJC <https://t.co/3tG5sISY8F>

Nephrology Jrnl Club @NephJC

3 days ago



In adults, exome sequencing has been applied in patients with FSGS. Check out this amazing VA by @rheault_m @cjasn #NephJC htExomtp://ow.ly/w6FM50kefzL
<https://t.co/tC8z012QCr>

Anace Pastor @anace710

3 days ago



RT @drlovygaur: Few points to make.. Genomic studies could open the Pandora's box.. help in better understanding of disease process and mig...

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Anace Pastor @anace710

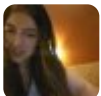
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RT @BeheraVineet: @NephJC #nephjc @aakashshingada @divyaa24 @arvindcanchi @mhtwenge Details of NGS and other genetic tests from a good n...

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Anace Pastor @anace710

3 days ago



RT @krithicism: @NephJC I'd think about 20 % #nephjc

Swapnil Hiremath, MD, MPH @hswapnil

3 days ago



Swapnil Hiremath from @OttawaRenal Lurking in between gaps in the clinic #NephJC
<https://t.co/3QjHxse6tD>

Nephrology Jrnl Club @NephJC

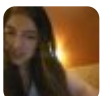
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3 days ago



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**Krithika Mohan** @krithicism

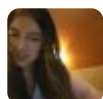
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**Divya Bajpai** IN @divyaa24

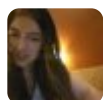
3 days ago

@NephJC @rheault_m @CJASN Love the #VisualAbstract #nephjc

**Anace Pastor** @anace710

3 days ago

RT @Errantnephron: In patients with #ESRD the prevalence in Spain #unknown etiology kidney disease is around 22% #NephJC <https://t.co/zK4A...>

**Anace Pastor** @anace710

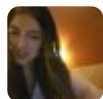
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RT @divyaa24: @NephJC I feel the data in that CKD registry in little old. in recent times probably upto 25% of patients have undiagnosed et...

**Anace Pastor** @anace710

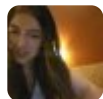
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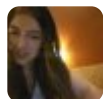
3 days ago

RT @NephJC: T0e Use of exome sequencing in nephrology - Smaller studies support the usefulness of exome sequencing for the diagnosis of ea...

**Anace Pastor** @anace710

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RT @mhtwenge: @NephJC #nephjc learning exome sequencing procedure <https://t.co/BCL8RgZBdt>

**Anace Pastor** @anace710


3 days ago


RT @NephJC: T0d What percentage of patients with ESKD in your practice have 'unknown' etiology? The Indian CKD registry showed this group t...


**Lovy** @drlovygaur


3 days ago


Also concerned abt the anxiety such diagnosis brings to asymptomatic probands.. would be interested to know how it is handled in institutes where it is offered #NephJC


 **Anace Pastor @anace710** 3 days ago
RT @NephJC: Mendelian disorders are a leading cause of CKD in children and account for upto 10% in adults. As patients are asymptomatic til...


 **Anace Pastor @anace710** 3 days ago
RT @NephJC: Exome sequencing has helped in identifying causal mutations in cancers where genomic diagnosis is routinely used. <https://t.co/...>


 **Anace Pastor @anace710** 3 days ago
RT @NephJC: T0b : Applications of Exome Sequencing - Targeted capture & sequencing of the protein-coding regions of the genome through exom...


 **Nephrology Jrnl Club @NephJC** 3 days ago
T1B: Remaining 2187 were from CUMC genetic study of CKD cohort which included patients with renal failure requiring dialysis or transplantation, serum creatinine > 1.5 mg/dL [>1.3 in women] or the presence of severe proteinuria or hematuria #NephJC

 **Anace Pastor @anace710** 3 days ago
RT @aakashshingada: Good #NSMC presence today at #NephJC @Arunkr_Dr @BeheraVineet @drlovygaur @krithicism and the newly minted mentors myse...

 **Anace Pastor @anace710** 3 days ago
RT @NephJC: T0a: Also check out this great write up for #nephmadness 2015 on 'GWAS in Nephrology vs Next-Generation Sequencing' <https://t.c...>

 **Nephrology Jrnl Club @NephJC** 3 days ago
@hswapnil @OttawaRenal @rolandbastphoto @ottawacity Thank you for joining Swap! Your presence always boosts morale! #nephjc

 **Timothy Yau @Maximal_Change** 3 days ago
Hope @kidneyomicsamps and @Nephro_Sparks got to catch the end of the Duke game after #NephJC last night, what a comeback!

 **Dr Mukesh Rulaniya @RulaniyaDr** 3 days ago
RT @aakashshingada: Whole Exome Sequencing / Whole Genome Sequencing - WES and WGS provide more comprehensive testing than targeted NGS pan...

**Krithika Mohan** @krithicism

3 days ago

RT @NephJC: In adults, exome sequencing has been applied in patients with FSGS. Check out this amazing VA by @rheault_m @cjasn #NephJC ht...

**Divya Bajpai** IN @divyaa24

3 days ago

@drlovygaur depends on why u are screening asymptomatic probands? Donors? Job fitness? #nephjc

**Nephrology Jrnl Club** @NephJC

3 days ago

T1C: Genomic DNA was isolated from patient samples and sequenced at Columbia Institute for genomic medicine. To facilitate identification of pathogenic variants a manually curated list of 625 genes associated with Mendelian forms of genitourinary diseases was used #NephJC

**Angel Cesar Ortiz** @AngelCesarOrtiz

3 days ago

Hi everyone! Angle Ortiz, Neph fellow from Mexico. Late to the party! No COI #nephjc

**Matt Sampson** @kidneyomicsamps

3 days ago

@Maximal_Change @Nephro_Sparks I sure did. #NephJC just allowed me to miss the bad parts!

**Nephrology Jrnl Club** @NephJC

3 days ago

T1D: Diagnostic variants were those that were classified as “pathogenic” or “likely pathogenic” according to the American College of Medical Genetics and Genomics (ACMG) guidelines & were explicative of the patient’s nephropathy #NephJC <https://t.co/hb3U2jARud>

**Divya Bajpai** IN @divyaa24

3 days ago

@NephJC This was a nice way of restricting the search for renal specific variants #nephjc

**Aakash Shingada** @aakashshingada

3 days ago

@drlovygaur Likely to be the most important benefit in the short term, but in long term, if we KNOW the defect we may come up with targetted therapies! #NephJC



Arunkumar @Arunkr_Dr

3 days ago

@NephJC Deciding on the 'screening list' of genes in the panel will be the most difficult part #NephJC



Divya Bajpai IN @divyaa24

3 days ago

@AngelCesarOrtiz Hi angel, welcome to #nephjc



Nephrology Jrnl Club @NephJC

3 days ago

T1F: Any thoughts about methods? Any concerns? #NephJC



Krishna K Agrawal @agrawalkris

3 days ago

@drlovygaur You have a good genetic counsellor for the same. #NephJC



Arunkumar @Arunkr_Dr

3 days ago

@aakashshingada @drlovygaur It is high time we enter into the 'targeted' area!!! #NephJC



Krithika Mohan @krithicism

3 days ago

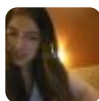
RT @Arunkr_Dr: @NephJC Deciding on the 'screening list' of genes in the panel will be the most difficult part #NephJC



Wei Ling Lau, MD FASN @Kidneys1st

3 days ago

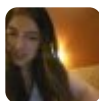
@drlovygaur I generally do not screen asymptomatic family members, since phenotype can be so heterogenous despite same genotype - unless they want to know for family planning or are potential living donor #avoidanxiety #NephJC



Anace Pastor @anace710

3 days ago

RT @mhtwenge: @aakashshingada #nephjc <https://t.co/gUjwJsRZ13>



Anace Pastor @anace710

3 days ago

RT @NephJC: T0a: If NGS is a new term for you like it was for me before reading this paper, just check out this amazing video <https://t.co/>...

**Anace Pastor @anace710**

3 days ago

RT @NephJC: Abbreviations for tonight NGS = Next generation sequencing WES = whole exome sequencing WGS = whole genome sequencing AURORA co...

**Lovy @drlovygaur**

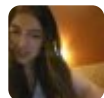
3 days ago

@divyaa24 This makes me pop another question what may be the indications of genetic screening.. Donor evaluation could be one.. and yes, why not in family history of cystic disease in those planning to pursue occupations such as may be boxing #NephJC wat else?

**Nephrology Jrnl Club @NephJC**

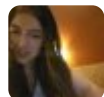
3 days ago

RT @drlovygaur: @divyaa24 This makes me pop another question what may be the indications of genetic screening.. Donor evaluation could be o...

**Anace Pastor @anace710**

3 days ago

RT @NephJC: Unable to go through the paper or the summary? Worry not! Check this amazing #Visualabstract by @divyaa24 #nephjc <https://t.co/...>

**Anace Pastor @anace710**

3 days ago

RT @NephJC: Routine housekeeping out of the way first: We recommend you use native client in browser <https://t.co/1SZrrvB3Yf> Tweetdeck. Tch...

**Anace Pastor @anace710**

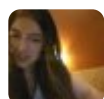
3 days ago

RT @NephJC: Please introduce yourself (even if you're lurking) and declare any COIs. Anyone new to #NephJC is always more than welcome. Her...

**Anace Pastor @anace710**

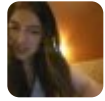
3 days ago

RT @NephJC: Tonight we'll be discussing this brilliant paper from @ColumbiaKidney @kirylukk published in @NEJM <https://t.co/6FzI02iRGE> #Ne...

**Anace Pastor @anace710**

3 days ago

RT @NephJC: Go through this thread to understand few terms related to todays chat Exome / NGS ?WES /WGS / Aurora /CUMC #nephjc <https://t.c...>

**Anace Pastor** @anace710

3 days ago

RT @NephJC: HI everyone, it's time for #NephJC. Welcome one and all to tonight's discussion about the fascinating topic of exome sequencing...

**Nephrology Jrnl Club** @NephJC

3 days ago

Moving on to T2 for the results. T2A: The cohort was predominantly adult (3037 patients [91.6%] were >21 years of age), and 1179 patients (35.6%) reported having non-European ancestry. AURORA patients were older, CUMC pts were ethnically diverse #NephJC <https://t.co/lvq9O9fGdF>

**Divya Bajpai** IN @divyaa24

3 days ago

@drlovygaur Antenatal screening in families of genetic diseases like ADPKD. #nephjc

**Nephrology Jrnl Club** @NephJC

3 days ago

@divyaa24 Yes, but a lot of Unknown pathogenic SNPs may have been picked up too (not analysed here).. but need to be analysed #NephJC

**Divya Bajpai** IN @divyaa24

3 days ago

@NephJC To note many differences between AURORA and CUMC cohort. together they make subjects more generalizable #nephjc

**Nephrology Jrnl Club** @NephJC

3 days ago

RT @divyaa24: @NephJC To note many differences between AURORA and CUMC cohort. together they make subjects more generalizable #nephjc

**Vineet Behera** @BeheraVineet

3 days ago

@drlovygaur @divyaa24 #nephjc @aakashshingada @hswapnil @arvindcanchi Important indications of genetic testing in renal diseases <https://t.co/mxil6DFZvk>

**Aakash Shingada** @aakashshingada

3 days ago

@divyaa24 @NephJC Yes AURORA had mainly older adults, CUMC had multiethnic participants, Glom diseases predominated #NephJC

Nephrology Jrnl Club @NephJC

3 days ago



T2B Diagnostic variants were found in 9.3% of the entire cohort, and these variants span 66 different monogenic disorders. Six diseases accounted for 63% of the genetic diagnoses, with mutations in PKD1 affecting the largest number of patients (Figure-green star). #Nephjc <https://t.co/VbP4pl66in>

Aakash Shingada @aakashshingada

3 days ago



RT @BeheraVineet: @drlovygaur @divyaa24 #nephjc @aakashshingada @hswapnil @arvindcanchi Important indications of genetic testing in renal...

Divya Bajpai IN @divyaa24

3 days ago



@BeheraVineet @drlovygaur @aakashshingada @hswapnil @arvindcanchi So the question is do v stick to these indications or we offer them to every CKD where cause is obscure? #nephjc

Krithika Mohan @krithicism

3 days ago



RT @BeheraVineet: @drlovygaur @divyaa24 #nephjc @aakashshingada @hswapnil @arvindcanchi Important indications of genetic testing in renal...

Vineet Behera @BeheraVineet

3 days ago



@NephJC @divyaa24 #nephjc really wonder the actual significance of those SNPs

Arvind Canchi IN @arvindcanchi

3 days ago



RT @BeheraVineet: @drlovygaur @divyaa24 #nephjc @aakashshingada @hswapnil @arvindcanchi Important indications of genetic testing in renal...

Aakash Shingada @aakashshingada

3 days ago



@NephJC This is what bothered me a bit! 9 % is too small a percentage to put the entire CKD population through very expensive testing #NephJC

Arunkumar @Arunkr_Dr

3 days ago



@NephJC Would be nice if we can diagnose a 'cause' in our 'unclassified' population.. 10% is a pretty good yield to begin with!! #NephJC

Nephrology Jrnl Club @NephJC

3 days ago



T2C Interestingly, the authors noted that diagnostic yield was highest in patients congenital or cystic renal disease (23.9%) and in patients with “nephropathy of unknown origin” (17.1%) (Table 2, green stars) #NephJC <https://t.co/v6a919Xb8s>

Divya Bajpai IN @divyaa24

3 days ago



@aakashshingada @NephJC But this is the beginning. 9% is not very bad provided the cost of test comes down and there is hope for therapies and management changes #NephJC

Aakash Shingada @aakashshingada

3 days ago



@NephJC Also, Most had PKD1 mutations. These pts will usually be picked up clinically. So if we remove this from the study, what will be the actual diagnostic yield??? #NephJC

Arvind Canchi IN @arvindcanchi

3 days ago



@divyaa24 @BeheraVineet @drlovygaur @aakashshingada @hswapnil And the answer is "dabbu" 💰 will make that self limiting!! #NephJC

Divya Bajpai IN @divyaa24

3 days ago



@NephJC This is not surprising. Those were the ones which can be targeted for more frequent testing #NephJC

Arunkumar @Arunkr_Dr

3 days ago



@divyaa24 @aakashshingada @NephJC Cost is something worrisome. Hope it gets down with widespread usage. #NephJC

Aakash Shingada @aakashshingada

3 days ago



@Arunkr_Dr @NephJC Majority of those 10% had PKD1 mutation, usually manifested clinically. if we remove these subjects, the actual yield remains low.. perhaps.. #NephJC

Vineet Behera @BeheraVineet

3 days ago



@divyaa24 @drlovygaur @aakashshingada @hswapnil @arvindcanchi I think a genetic screening will become a part of workup in all those unknown or obscure ckd #nephjc

Nephrology Jrnl Club @NephJC

3 days ago



T2D A family history of kidney disease and a clinical diagnosis of congenital or cystic renal disease and nephropathy of unknown origin were independent predictors of having a genetic diagnosis #NephJC <https://t.co/7Q0aH11UwC>

Divya Bajpai IN @divyaa24

3 days ago



@arvindcanchi @BeheraVineet @drlovygaur @aakashshingada @hswapnil dabbu is which language?' thanks for that icon. I believe it will come down with time. It is available to our patients at approx 20k [after discount] #NephJC

Vineet Behera @BeheraVineet

3 days ago



@arvindcanchi @divyaa24 @drlovygaur @aakashshingada @hswapnil Totally agree with you sir.. Even now that is the biggest limiting factor #nephjc

Divya Bajpai IN @divyaa24

3 days ago



What is the cost of NGS accross various centers in our country. We get it for 20K #nephjc

Wei Ling Lau, MD FASN @Kidneys1st

3 days ago



@Arunkr_Dr @divyaa24 @aakashshingada @NephJC The cost may be worth it if the diagnosis can guide CKD management... it says "1.6% were findings for medically actionable disorders"... what were these disorders? #NephJC

Angel Cesar Ortiz @AngelCesarOrtiz

3 days ago



RT @BeheraVineet: @divyaa24 @drlovygaur @aakashshingada @hswapnil @arvindcanchi I think a genetic screening will become a part of workup in...

Arunkumar @Arunkr_Dr

3 days ago



@aakashshingada @NephJC May improve with a different panel curated to our population #NephJC

Vineet Behera @BeheraVineet

3 days ago



@divyaa24 @arvindcanchi @drlovygaur @aakashshingada @hswapnil Yaah.. Same in delhi..about 25k #nephjc But that shud decrease as the use goes up

Nephrology Jrnl Club @NephJC

3 days ago



@arvindcanchi @divyaa24 @BeheraVineet @drlovygaur @aakashshingada @hswapnil Though I agree with the point, but anything new is going to be expensive till it becomes routine, and making it routine is on us.. The question is, how much will it influence treatment, not necessarily NOW, but even in future. #nephjc

Krishna K Agrawal @agrawalkris

3 days ago



@NephJC Is there any algorithm which will rule in so that the yield gets higher and cost effectiveness can be justified. #NephJC

Nephrology Jrnl Club @NephJC

3 days ago



RT @Kidneys1st: @Arunkr_Dr @divyaa24 @aakashshingada @NephJC The cost may be worth it if the diagnosis can guide CKD management... it says...

Krishna K Agrawal @agrawalkris

3 days ago



@divyaa24 It's 21000 #NephJC

ankit mody @AnkitCare

3 days ago



#NephJC Dr.Ankit mody nephrologist from mumbai no coi

Divya Bajpai IN @divyaa24

3 days ago



@agrawalkris @NephJC independent predictors in this study like CAKUT, Cystic disease, CKD of unknown etiology and family history #nephjc

Vineet Behera @BeheraVineet

3 days ago



@NephJC @arvindcanchi @divyaa24 @drlovygaur @aakashshingada @hswapnil Dont know..but i feel that our paediatric nephrology counterparts are more proactive and regular in ordering genetic tests than us.. what do you feel ? #nephjc @mhtwenge

Nephrology Jrnl Club @NephJC

3 days ago



How did these findings affect management??? T2E In 89% of the CUMC patients with genetic findings, the molecular diagnosis had implications to alter clinical management. A subtype of disease was identified in 65 CUMC patients, & disease was reclassified in 18 patients #NephJC <https://t.co/CCaY3wGT1y>

**Nephrology Jrnl Club @NephJC**

3 days ago

@AnkitCare Hi Ankit! Welcome to #NephJC Would love to hear ur thoughts!

**Aakash Shingada @aakashshingada**

3 days ago

RT @NephJC: How did these findings affect management??? T2E In 89% of the CUMC patients with genetic findings, the molecular diagnosis had...

**Krithika Mohan @krithicism**

3 days ago

RT @NephJC: How did these findings affect management??? T2E In 89% of the CUMC patients with genetic findings, the molecular diagnosis had...

**Dr Priya @DrPriya3110**

3 days ago

Hey evryone!!this is priya from <https://t.co/wOhQCp1uwr> COI.#nephjc

**Aakash Shingada @aakashshingada**

3 days ago

@NephJC this is what mattered in the end according to me. not that 9% pts had a genetic basis, but the fact the genetic diagnosis influenced decisions.. #NephJC

**Divya Bajpai IN @divyaa24**

3 days ago

I believe all CKDu studies should also attempt for genetic evaluation. Why out of so many people exposed to same environment only few get the disease? #NephJC

**Nephrology Jrnl Club @NephJC**

3 days ago

T2F: 62% of patients with COL4A3, COL4A4, or COL4A5 mutations did not have clinical diagnoses of Alport syndrome or thin basement membrane disease. This detection would indicate ophthalmologic and otolaryngologic referral #NephJC

**Aakash Shingada @aakashshingada**


3 days ago


@NephJC This was such important information. Nt just for pts management but also for prenatal counselling..#NephJC


**Krishna K Agrawal @agrawalkris**


3 days ago


@divyaa24 It's all in the genes. #NephJC


 **Divya Bajpai** IN @divyaa24 3 days ago
@BeheraVineet @NephJC @arvindcanchi @drlovygaur @aakashshingada @hswapnil @mhtwenge The yield is expected to be higher in pediatric onset disorders. Also more value on family counselling, when parents are planning a next child #NephJC


 **ankit mody** @AnkitCare 3 days ago
#NephJC recently encountered 2 female pts sisters with advanced ckdu..small kidneys....ngs would be ideal in this situation for diagnosis


 **Nephrology Jrnl Club** @NephJC 3 days ago
T2G: In 15 patients (16%) with a clinical diagnosis of focal segmental glomerulosclerosis, the genetic diagnosis could disfavor unnecessary immunosuppressive therapy #NephJC


 **Aakash Shingada** @aakashshingada 3 days ago
@NephJC exactly what @drlovygaur mentioned earlier. Identifying pts not needing IS #nephjc <https://t.co/2v4GL8QiMQ>


 **Divya Bajpai** IN @divyaa24 3 days ago
I have had problem explaining the patients why they should spend money on a test when I dont have many treatment options. Any similar thoughts #Iworkinpublichospital #NephJC


 **ankit mody** @AnkitCare 3 days ago
#NephJC @divyaa24 Which lab offers ngs in mumbai?


 **Amar Sultan** @sultan_amar8 3 days ago
Hello all.! Amar from central India. No COI. #nephjc


 **Divya Bajpai** IN @divyaa24 3 days ago
@AnkitCare Progenex and medgenome now lal path also starting #nephjc


 **Angel Cesar Ortiz** @AngelCesarOrtiz 3 days ago
RT @drlovygaur: Few points to make.. Genomic studies could open the Pandora's box.. help in better understanding of disease process and mig...


 **Nephrology Jrnl Club @NephJC** 3 days ago
@sultan_amar8 Hey Dr amar! Great to have you with us! Please share your thoughts and experience with Genetic testing in ur CKD patients #NephJC


 **Divya Bajpai IN @divyaa24** 3 days ago
@sultan_amar8 Hi Amar, welcome to #nephjc Tell us your experience about genetic testing in CKD


 **Nephrology Jrnl Club @NephJC** 3 days ago
T2H Known or expected pathogenic variants were detected in the 59 ACMG medically actionable genes in 34 of the 2187 patients (1.6%) assessed. Although secondary these findings can have implications for nephrology care #NephJC


 **Mya Htwe Nge @mhtwenge** 3 days ago
@BeheraVineet @NephJC @arvindcanchi @divyaa24 @drlovygaur @aakashshingada @hswapnil #nephjc agree with you. We rarely do test in adult nephrology.

 **Vineet Behera @BeheraVineet** 3 days ago
@divyaa24 Very often.. the interest of the patient also goes down #nephjc

 **Divya Bajpai IN @divyaa24** 3 days ago
How many hospitals in India have qualified genetic counsellors? none in mine #nephjc

 **Dr. Anant Joshi @DrAnantJoshi82** 3 days ago
Hello all.. Anant joining from Delhi. No COI. Sorry for joining late.#NephJC

 **Arunkumar @Arunkr_Dr** 3 days ago
@divyaa24 Very difficult to convince them once we tell that it wont help them for the therapy.. Most do not understand the implications and we need to explain multiple times (to multiple care givers) before they accept (if at all) #NephJC

 **Aakash Shingada @aakashshingada** 3 days ago
@divyaa24 Very few. We at @sgrhindia have a very active genetic dept with a gwas study ongoing but not sure if we have a counsellor. Will check #NephJC



Vineet Behera @BeheraVineet

3 days ago

@aakashshingada @NephJC @drlovygaur Also..it helps in knowing the post transplant recurrence or prognosis.. #nephjc



Divya Bajpai IN @divyaa24

3 days ago

@Arunkr_Dr one of our patient with C3 GN got very depressed when genetic workup came all negative. He felt as if money was wasted #nephjc



Dr. Anant Joshi @DrAnantJoshi82

3 days ago

@divyaa24 In diseases which go on for long and have strong financial implications.. Costly Genetic testing with no clear contribution to management very often becomes a problem #NephJC



Nephrology Jrnl Club @NephJC

3 days ago

T2I What to make of the results? What surprises you the most? #NephJC



Aakash Shingada @aakashshingada

3 days ago

@divyaa24 @Arunkr_Dr this is so common with patients in india. its not just pts, i think if this had happened to someone in my family they also would have had the same thought! #NephJC



Aakash Shingada @aakashshingada

3 days ago

@DrAnantJoshi82 welcome to #NephJC



Lovy @drlovygaur

3 days ago

@arvindcanchi @divyaa24 @BeheraVineet @aakashshingada @hswapnil That includes genetic studies as well? Thats amazing.. didnt know that.. thank u for highlighting the fact #NephJC



Divya Bajpai IN @divyaa24

3 days ago

@NephJC 18 diseases got reclassified! and many changed subclass! that is interesting #NephJC



Aakash Shingada @aakashshingada

3 days ago

@DrAnantJoshi82 @divyaa24 yes, but we will never to able to answer unresolved questions if we do not have more information. The data may probably not benefit that particular pt but will surely contribute to knowledge and future research. #NephJC



Vineet Behera @BeheraVineet

3 days ago

@divyaa24 @Arunkr_Dr Yes.. I asked genetic tests for a ckd family last week..Likely CTID Mother ckd5d Elder daughter - deceased donor transplant Younger daughter.. on capd Had lot of difficulties inconvincing them fr the test #nephjc @aakashshingada @drlovygaur



Dr Mukesh Rulaniya @RulaniyaDr

3 days ago

RT @aakashshingada: Lets talk about the genetic testing modalities - Next Gen Sequencing NGS utilizes targeted capture and massively paral...



Sanjeev Nair @Nair_Sanj

3 days ago

Sorry i'm late.. Will follow the #nephjc



Nephrology Jrnl Club @NephJC

3 days ago

RT @BeheraVineet: @divyaa24 @Arunkr_Dr Yes.. I asked genetic tests for a ckd family last week..Likely CTID Mother ckd5d Elder daughter -...



Nephrology Jrnl Club @NephJC

3 days ago

T3A: Limitations of exome sequencing: 1st -Suboptimal coverage of some clinically relevant regions, eg- the mitochondrial DNA or duplicated regions of PKD1. 2nd - Inability to detect intronic & copy-number variants. Does this underestimate the overall genetic burden? #NephJC



Lovy @drlovygaur

3 days ago

Another question - Do we have laws in India to safeguard the interests of those with a diagnosis of genetic disease #NephJC



Mya Htwe Nge @mhtwenge

3 days ago

@BeheraVineet @divyaa24 @Arunkr_Dr @aakashshingada @drlovygaur #nephjc what about the cost of genetic testing?



Dr. Anant Joshi @DrAnantJoshi82

3 days ago

@drlovygaur Clear communications very important. Need to spend time..why we are getting a test done, what it brings for patients and their families and long term contribution #NephJC



Nephrology Jrnl Club @NephJC

3 days ago

@BeheraVineet @divyaa24 @Arunkr_Dr @aakashshingada @drlovygaur oh this family definitely need testing! great job! #nephjc



Arvind Canchi IN @arvindcanchi

3 days ago

@drlovygaur @divyaa24 @BeheraVineet @aakashshingada @hswapnil Yes, this is from the @GeorgelInstIN website. #NephJC <https://t.co/6LDqdMe44C>



Nephrology Jrnl Club @NephJC

3 days ago

T3B: Any other limitations? Are these results generalizable to your population? #NephJC



Divya Bajpai IN @divyaa24

3 days ago

It might not directly benefit patients today, but might be important 10 yrs later when it helps development of targeted therapy. Think of hematoncology so many targeted therapies have come due to molecular testing #nephjc



Lovy @drlovygaur

3 days ago

RT @arvindcanchi: @drlovygaur @divyaa24 @BeheraVineet @aakashshingada @hswapnil Yes, this is from the @GeorgelInstIN website. #NephJC <https://t.co/6LDqdMe44C>



Aakash Shingada @aakashshingada

3 days ago

@NephJC one of the problems with non selective genetic testing is risk of falsely attributing causality #NephJC How should this be countered? #genuinedoubt



Divya Bajpai IN @divyaa24

3 days ago

@arvindcanchi @drlovygaur @BeheraVineet @aakashshingada @hswapnil @GeorgelInstIN There was also some data presented by SGPGI in #ISNCON 2018 about GWAS in CKD patients. hope to see publication soon #NephJC

**Nephrology Jrnl Club @NephJC**

3 days ago

T3C: Is there a risk of falsely attributing causality in few patients where genetic variants are not well specified? What about Variants with Undetermined significance? #NephJC

**Arunkumar @Arunkr_Dr**

3 days ago

@aakashshingada @NephJC Association vs. causality... May be difficult to establish #NephJC

**Nephrology Jrnl Club @NephJC**

3 days ago

T3D: Which patients in your clinical practice do you think will benefit the most with exome sequencing? What are the benefits of knowing the genetic diagnosis in your patients? #NephJC

**Mya Htwe Nge @mhtwenge**

3 days ago

@BeheraVineet @divyaa24 @Arunkr_Dr @aakashshingada @drlovygaur #nephjc 4 out of 5 sisters have CKD...very sad story

**Vineet Behera @BeheraVineet**

3 days ago

@aakashshingada @NephJC That is the biggest problem in asking genetic test for all..ie what is relevant and what not #nephjc @divyaa24

**Nephrology Jrnl Club @NephJC**

3 days ago

T3E: Last few minutes left. What are your take home points? Final thoughts/comments? #NephJC

**Dr. Anant Joshi @DrAnantJoshi82**

3 days ago

@aakashshingada @NephJC False positives and false negatives are achilles heel of genetic studies #NephJC

**Divya Bajpai IN @divyaa24**

3 days ago

@BeheraVineet @aakashshingada @NephJC May be by documenting same variant in multiple patients with same phenotype we may reach nearer to the truth #NephJC

Nephrology Jrnl Club @NephJC

3 days ago



Thanks to @ @yasar_caliskan and @ @jenniejlin for the brilliant summary, @rheault_m for the commentary & @divyaa24 for the amazing visual abstract. Thanks for joining us tonight and for contributing to the discussion. One more chat coming up on the same topic at 8pm GMT #NephJC

Dr. Anant Joshi @DrAnantJoshi82

3 days ago



@divyaa24 This optimism will bring efforts in right direction and help prepare a roadmap to lead the way #NephJC

Aakash Shingada @aakashshingada

3 days ago



@NephJC I am leaning towards supporting role of genetic studies. Because, we have very few positive studies in nephrology. Research on routine agents is not going to cut it. We need new targets and agents acting on those targets.. and we need more information! #NephJC

Lovy @drlovygaur

3 days ago



Viz a viz GINA (Genetic Information Nondiscrimination Act) in the U.S #NephJC

Mya Htwe Nge @mhtwenge

3 days ago



@NephJC #NephJC we should do genetic testing but finance and facilities are big barriers How we can solve?

Divya Bajpai IN @divyaa24

3 days ago



Thanks for hosting @aakashshingada had a wonderful discussion #NephJC

Nephrology Jrnl Club @NephJC

3 days ago



RT @aakashshingada: @NephJC I am leaning towards supporting role of genetic studies. Because, we have very few positive studies in nephrolog...

Nephrology Jrnl Club @NephJC

3 days ago



If you haven't, please sign up for our weekly newsletter <https://t.co/5aumn8lmwF> #NephJC



Divya Bajpai IN @divyaa24

3 days ago

@mhtwenge @NephJC As of now by prioritizing patients which are expected to give higher yield. With time once we start using it cost might come down #NephJC



Nephrology Jrnl Club @NephJC

3 days ago

Would you like to have some #NephJC swag? Order it here <https://t.co/eTUrZYjJeY>



Vineet Behera @BeheraVineet

3 days ago

@aakashshingada @NephJC @divyaa24 A good article to read.. #nephjc @drlovygaur Nat Rev Nephrol. 2018 Feb;14(2):83-104. doi: 10.1038/nrneph.2017.167. Epub 2018 Jan 8. <https://t.co/890akWiOu9>



Divya Bajpai IN @divyaa24

3 days ago

#nephjc



Vineet Behera @BeheraVineet

3 days ago

RT @divyaa24: #nephjc <https://t.co/PkEjbPX3z5>



Nephrology Jrnl Club @NephJC


3 days ago

RT @BeheraVineet: @aakashshingada @NephJC @divyaa24 A good article to read.. #nephjc @drlovygaur Nat Rev Nephrol. 2018 Feb;14(2):83-104. d...



Aakash Shingada @aakashshingada

3 days ago

Exome-sequencing - The numbers: 233 Tweets. 24 Participants. February 13th 2019. More #NephJC  here <https://t.co/dc0ZOPaze9> via @symplur



Mya Htwe Nge @mhtwenge

3 days ago

Thanks for tonight discussion. Great. Congrats @aakashshingada @divyaa24 #nephjc Asia



Vineet Behera @BeheraVineet

3 days ago

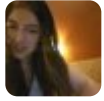
RT @BeheraVineet: @drlovygaur @divyaa24 #nephjc @aakashshingada @hswapnil @arvindcanchi Important indications of genetic testing in renal...



Eida M Sharif @dytiaaurinh

3 days ago

RT @divyaa24: I have had problem explaining the patients why they should spend money on a test when I dont have many treatment options. Any...




Anace Pastor @anace710

3 days ago

RT @BeheraVineet: @aakashshingada @NephJC @divyaa24 A good article to read.. #nephjc @drlovygaur Nat Rev Nephrol. 2018 Feb;14(2):83-104. d...

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