Medications in Nephrotic Syndrome: Steroids

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Why do steroids work?

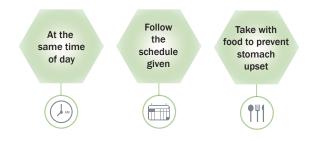
Steroids act on the immune system to stop protein leaking into urine and reduce swelling

Steroids are the most effective treatment

>90% of children respond to steroids

It may take several weeks to see a difference in your (your child's) condition.

How do I (does my child) take steroids?



Steroids come in tablet and liquid forms TIP: Crush tablets into yogurt, jam, apple sauce, mashed potato, or other soft foods. Add liquid to 1 tbsp. milk or juice to improve taste.

Steroids treat initial episodes & relapses

TREATMENT OF THE FIRST EPISODE

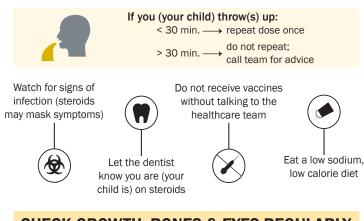


TREATMENT OF RELAPSES

Treatment dose reduced

gradually over several weeks

Full dose treatment until no protein in urine for 5 days in a row

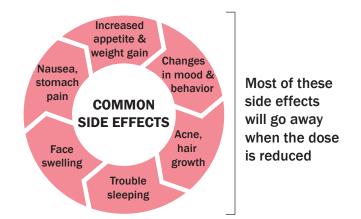


Precautions on steroids

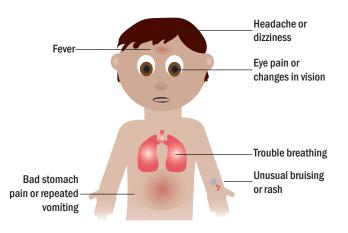
CHECK GROWTH, BONES & EYES REGULARLY

Steroids may cause slower growth, bone, and eye problems when used over long periods of time.

Side effects



Seek medical care for any of these symptoms:







Incidence and outcomes of nephrotic syndrome

INSIGHT Publication: *Ethnic Differences in Incidence and Outcomes of Childhood Nephrotic Syndrome* http://cjasn.asnjournals.org/content/11/10/1760.short

How steroids work

National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK): *How is nephrotic syndrome treated?* https://www.niddk.nih.gov/health-information/kidney-disease/children/childhood-nephrotic-syndrome

The Kidney Foundation of Canada: *Treatment for childhood nephrotic syndrome* https://www.kidney.ca/childhood-nephrotic-syndrome?

How to give steroids

AboutKidsHealth (SickKids): *How should you give your child prednisone, prednisolone, dexamethasone?* http://www.aboutkidshealth.ca/En/HealthAZ/Drugs/Pages/Prednisone-Prednisolone-and-Dexamethasone-Corticosteroids-Taken-for-a-Short-Time.aspx

NephCure Kidney International: *How is prednisone administered?* https://nephcure.org/livingwithkidneydisease/treatment-options/prednisone/

Side effects

The Royal Children's Hospital Melbourne: What is the main treatment of nephrotic syndrome? http://www.rch.org.au/uploadedFiles/Main/Content/clinicalguide/130561%20SCOTT%20Nephotic%20Syndrome%20booklet%20A5_LR.pdf

NephCure Kidney International: Children on Prednisone

https://nephcure.org/livingwithkidneydisease/treatment-options/prednisone/life-on-prednisone-children/

Dealing with behavioral issues and mood changes

Hospital for Special Surgery: How to reduce corticosteroid side effects, Section 8 - Mood changes https://www.hss.edu/conditions_steroid-side-effects-how-to-reduce-corticosteroid-side-effects.asp

Coping with prednisone (& other cortisone-related medicines). Eugenia Zukerman & Julie R. Ingelfinger. 2nd Ed. 2007.

Long-term side effects

The Royal Children's Hospital Melbourne: *Won't large doses of prednisolone cause side effects?* http://www.rch.org.au/uploadedFiles/Main/Content/clinical-guide/130561%20SCOTT%20Nephotic%20Syndrome%20booklet%20A5_LR.pdf

infoKID (British Association for Pediatric Nephrology): Side effects http://www.infokid.org.uk/nephrotic-syndrome#section-5

Medicines for Children (Royal College of Paediatrics and Child Health): Side-effects with high doses or long courses http://www.medicinesforchildren.org.uk/prednisolone-oral-nephrotic-syndrome

AboutKidsHealth (SickKids): Corticosteroids given for a long time

http://www.aboutkidshealth.ca/En/HealthAZ/Drugs/Pages/Corticosteroids-Given-for-a-Long-Time.aspx

- Infographic developed in collaboration with families participating in the INSIGHT research study