PLAN OF ACTIVITIES OF THE IDIOPATHIC NEPHROTIC SYNDROME WORKING GROUP – 2017

Coordinator: Marina Vivarelli

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Next meeting of the group: during the ESPN 50th Meeting in Glasgow, Scotland, September 6-9 2017

Research Activity:

Enquiries

Study#1: the treatment of the first flare. Coordinated by Georges Deschênes (Nov 2013 to Jan 2014). Completed, manuscript submitted "Childhood idiopathic nephrotic syndrome - Variability of treatment in European centers"

Georges Deschênes, Marina Vivarelli & Licia Peruzzi, On behalf of the ESPN Working Group on Idiopathic Nephrotic Syndrome

Study#2: Steroid resistancy. Coordinated by Licia Peruzzi (Jan 2014 to Mar 2014). 15 members from 11 countries participated to the study and returned the questionnaire. Results: Most centers define steroid resistance after 6 weeks and MP pulses, add CyA or Tac and wait for at least 6 months for response. 50% proteinuria reduction is considered partial response together with sAlb increase. In most centers, MMF is added if partial response on top on other drugs after at least 6 months. Two centers carried out plasma exchange or immunoadsorption associated with B cell depletion in multiresistant forms, based on the involvement of B cells and immunoglobulins in the mechanism of the disease.

Study#3: Rituximab. Coordinated by Georges Deschênes (Dec 2014 to Mar 2015). Rituximab is widely used in European countries. More than 350 patients have been treated by this set of 23 teams (22 answers + Robert-Debré). Paris, Roma and London totalized more than 200 patients. Most of the patients treated had SDNS previously treated with MMF and/or CNI; more marginally some has been treated only for poor compliance to treatment, long duration of the disease, drugs toxicity, and complications of the nephrotic syndrome. A handful of patients have also been treated for SRNS, generally without effect. Rituximab has been declared as the last line of treatment of SDNS by 3 (may be 4) teams but others have clearly used it as a first line in SDNS; the treatment is not refunded in 2 countries, thus clearly limiting indications. The conclusion is that retrospective studies have been convincing enough to treat hundred of patients far prior the release of the first study bringing a formal evidence of efficiency.

Study#4: Vaccinations. Coordinated by Marina Vivarelli. Nephrotic syndrome, both in itself and due to concomitant immunosuppression, determines an impaired response to vaccinations, and reduced levels of total IgGs during flares. There are very disparate attitudes towards vaccinations and the risk of disease flares. Moreover, the increasing use of rituximab with its effect on B cell depletion may affect immune competence and response to vaccinations. Therefore, the ESPN Working Group has 3 aims:

A questionnaire on vaccinations: what members advise their patients to do regarding vaccinations and the risk of relapse, if in their experience relapse happens or not, if they routinely check for specific antibodies and have ever noted any abnormalities both at onset and further on with concomitant immunosuppression.
An expanded questionnaire on rituximab, doses, frequency, B cell reconstitution, concomitant immunosuppression, side effects.

3) A prospective project of assessing total serum IgG, IgA and IgM in patients with INS at onset, during immunosuppression and before and after rituximab infusion.

Basic research

2 teams from the Nephrotic syndrome WG have declared an activity in the field of basic research:

M Vivarelli [Roma (Bambino Gesu)]: Role of B cells in the Idiopathic Nephrotic Syndrome

A Jamin [Paris (Robert-Debré)]: Role of Immunoglobulin & free light chains in the Idiopathic Nephrotic Syndrome.

Registry of trials

Several trials coordinated by a member of the Nephrotic Syndrome WG have been registered on the website of the Nephrotic Syndrome WG:

PREDNOS (Birmingham, United Kingdom) comparing 2 prednisolone regimens for the first flare (recruitment completed)

NEPHROMYCY (Paris, France): Cyclophosphamide Versus Mycophenolate Mofetil for the Treatment of Steroid-dependent Nephrotic Syndrome in Children (recruitment completed, results expected in 2015)

NEPHRUTIX Limoges France): Efficacy of Rituximab for the Treatment of Calcineurin Inhibitors Dependent Nephrotic Syndrome during Childhood (recruitment completed, results released in 2015)

Steroid Treatment of Idiopathic Nephrotic Syndrome (Bologna, Italy): assess the benefits and potential adverse effects of a prolonged initial corticosteroid regimen, for the treatment of the initial episode. (Currently recruiting)

INTENT study (Heidelberg, Germany) Initial treatment of idiopathic nephrotic syndrome in children with mycophenolate mofetil vs. prednisone (recruitment in course)

NEPHROVIR-2 (Paris, France) Factors of Steroid Dependency in Idiopathic Nephrotic Syndrome (Recruitment completed, analysis in progress)

NEPHROVIR-3 (Paris, France) Efficiency of Levamisole in association with Prednisone in the treatment of the first flare (In preparation)

OFA2 (Genova, Italy) Ofatumumab Versus Rituximab in Children With Steroid and Calcineurin Inhibitor Dependent Idiopathic Nephrotic Syndrome

OFA1 (Genova, Italy) Ofatumumab in Children with Drug Resistant Idiopathic Nephrotic Syndrome

RITUXIVIG (Paris, France): Efficacy and safety of Rituximab associated with immunoglobulin versus Rituximab alone in children with steroid-dependant nephrotic syndrome

Projects for 2017

Compiling results of the survey on vaccinations, coordinating the study on immunoglobulins and on response to Rituximab.