



ESID End of Fellowship report

1. Fellowship details

- First name: **SATHISH KUMAR**
- Last name: **LOGANATHAN**
- Type of fellowship:
 - Short-term**
 - Medium-term**
 - Bridge grant**
- Fellowship's start and end date: **April 3rd 2023 to May 5th 2023**
- Hosting institution: **The Great North Children's hospital, Royal Victoria Infirmary, Newcastle Upon Tyne**
- Supervisor: **Dr. Andy Gennery, Consultant Immunologist, GNCH, Newcastle upon Tyne**

2. Summary of the work done during the fellowship (max.400 words).

1. Actively participated in general pediatrics ward-rounds on first week of observership, and attended the severe combined immunodeficiency [SCID] afternoon meetings
2. Observed and learnt the pretransplant workup and protocols; attended pretransplant counselling sessions also
3. Shadowing the consultants in transplant ward; Learnt the various protocols used in the hematopoietic stem cell transplant unit; Experienced about the necessity of a multidisciplinary team to establish a BMT unit.
4. Observed the genetic meetings conducted by Dr.Sophie hambelton (last 2 week, 2 days/week); Discussed the differential diagnosis and thoughts of complicated genetic diagnosis
5. Visited nearby Freeman hospital and observed post-cardiac transplant patients follow up opd
6. Observed the tests done in Flow-cytometry lab and discussed the techniques and interpretation
7. Attended the pre-round and post round ward discussions
8. Attended outpatient department and observed the post transplant review patients



3. New skills acquired during the fellowship (max.200 words).

1. Observed various protocols used in Bone marrow transplant unit
2. Attended the discussions related to severe combined immunodeficiency
3. Learnt clinical exome meeting conducted by Dr.Sophie Hamblon
4. Seen bone marrow harvesting and infusion of harvested cells
5. Seen and learnt the complications of immediate post-transplant period
6. Immunosuppression and antibiotics protocols for infections during transplant period
7. Communication skills while talking to parents of children with Inborn errors of Immunity
8. Got an opportunity to see post-cardiac transplant patients follow up period in out patient period



4. Your professional plan for the near future and how the fellowship impacted this plan (max 400 words).

Currently, I am working in a tertiary-care referral institute in South-India, which can provide diagnostic facilities for IEI and also Hematopoietic stem cell transplant facilities for the same. We have also started the Inborn errors of immunity (IEI) outpatient clinic. Currently we are doing some basic flow cytometry test (Lymphocyte subset analysis, Tcell subsets, Double negative T cells and B-cell immunophenotyping), and tests to diagnose phagocytic disease (NBT and Dihydrorhodamine tests).

Future plan:

1. Trying to establish and standardize various functional assays (like in MSMD, and familial HLH) and T-cell proliferation assays.
2. To improve the targeted gene panel in a time to time manner.
3. To play a better role in the multidisciplinary team of HSCT to serve the children with IEI better.

5. Results obtained from your fellowship project. Please, mention any publications or meeting communications derived (if applicable, max 800 words).

NO



6. Any other comments (max.200 words)

Thanks to ESID for offering me this fellowship

Additional information:

1. The report should be completed within 3 months of completion of the fellowship / bridge grant.
2. Please, note that that once approved, the report will be published on the ESID website, under the Reports section. Bear this in mind and include only information which you would like to make publicly available.
3. Please, complete this report and send it to the ESID Administrative Office at: info@esid.org.