Sri Adichunchanagiri Shikshana Trust(R)
Adichunchanagiri Institute of Medical Sciences
Sri Adichunchanagiri Hospital & Research Center
B G Nagara – 571448
Department of Medicine

AIMS – MED PULSE

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Editorial

Dear readers,

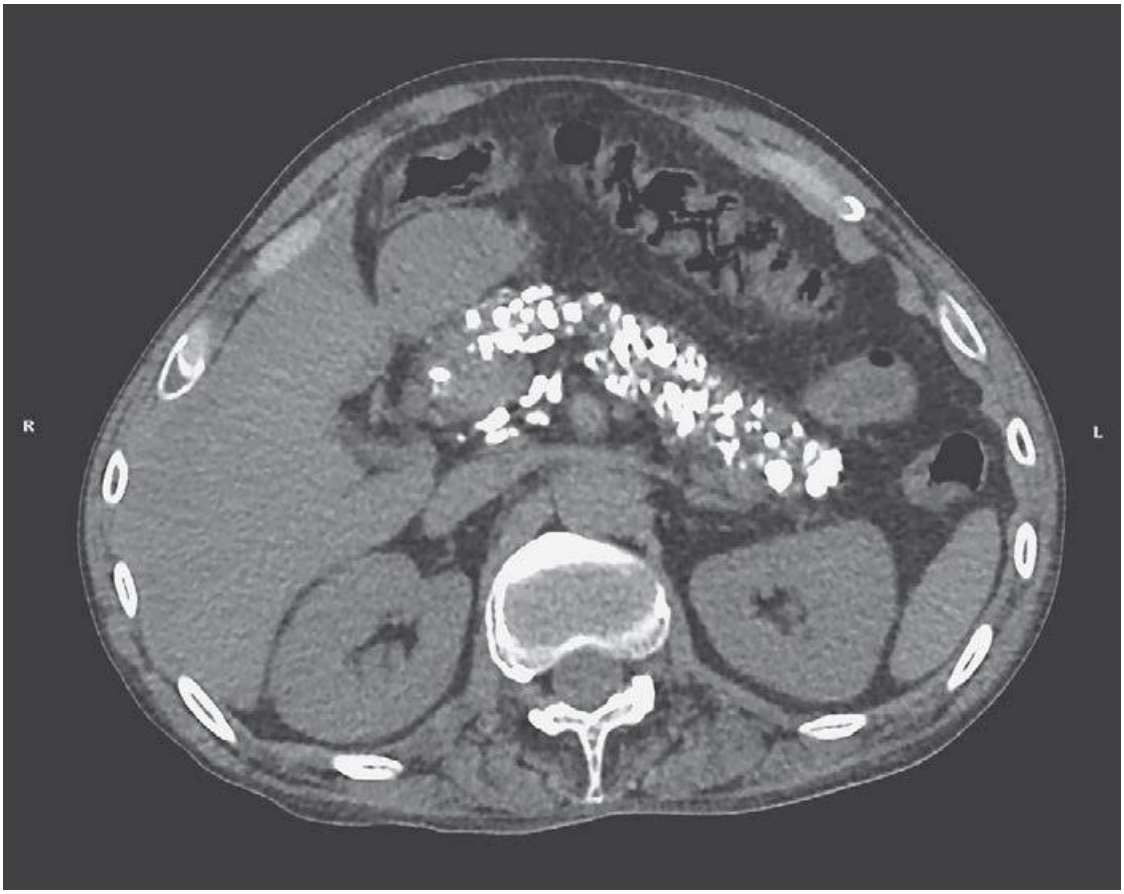
The department of General Medicine has been striving for excellence in patient care, teaching program in the department, research work or publications.

The Department has been working on various ongoing research projects. Several rare cases are being studied, documented and sent for research publication. Poster presentations were done by post graduates at APICON 2017.

The postgraduate students are being taught clinical skills and applied theory on a regular basis. We acknowledge the constant support, guidance and encouragement from our beloved and dynamic Principal DR. M.G.Shivaramu in all our departmental activities.

(Prof & H.O.D)

Dr. H. VasudevaNaik



Calcific Pancreatitis Associated with Alcohol Use

A 50-year-old man presented to the emergency department with sudden onset of hematemesis. He reported a 2-month history of epigastric pain and foul-smelling diarrhea. He had been drinking half a pint of vodka a day for 15 years. Physical examination revealed epigastric tenderness. Results of laboratory testing, including serum lipase and liver-function tests, were within normal limits. A computed tomographic scan of the abdomen showed extensive calcification of the pancreas without evidence of pancreatic edema or peripancreatic fluid collection, findings consistent with chronic calcific pancreatitis. Endoscopy revealed gastric ulcers, which were treated with acid suppression. Chronic alcoholic pancreatitis is a common cause of pancreatic calcification. Treatment of chronic pancreatitis typically includes pain management and correction of exocrine pancreatic insufficiency. This patient had an uneventful recovery; he was discharged with pancreatic enzyme supplements and was enrolled in an alcohol abuse rehabilitation program.

Collected by : Dr. Shetty Shivakumar M, Professor of Medicine. A.I.M.S. B.G.Nagara.

PUBLICATIONS /ACTIVITIES OF DEPARTMENT OF MEDICINE

CME/CONFERENCES ATTENDED	STAFF/PG
APICON - JAN 2017 , MUMBAI	Dr Vasudeva Naik, Dr. Kiran, Dr. Sindhu,Dr.Manmohan,Dr.Anand,Dr.Smitha,Dr.Chaitra,Dr.Vinod,Dr.Yogesh
KAPICON – MAY 2017 MYSORE	Dr Vasudeva Naik, Dr. Shetty Shivakumar,Dr. Kiran, Dr. Sindhu,Dr.Manmohan,Dr.Anand,Dr.Smitha,Dr.Chaitra,Dr.Vinod,Dr.Yogesh

Poster Presented/Paper Presented	Place	Name of the Postgraduate
Marchiafavae Bignami disease in chronic alcoholic patient	APICON-JAN 2017, MUMBAI	Dr. Kiran Bheemeshwar
A rare presentation of Artery of Parcheron Infarct	KAPICON- MAY 2017, MYSORE	Dr. Kiran Bheemeshwar
Guilliane Bare Syndrome in pregnancy	APICON-JAN 2017, MUMBAI	Dr. Sindhu .B.S.
Study of Hyperglycemia in correlation with pseudo cholinesterase levels in assessing severity of OP Poisoning	APICON – JAN 2017, MUMBAI	Dr.Manmohan .U.S.
Viper Bite presenting with sole manifestation of only Acute Kidney Injury	APICON JAN 2017, MUMBAI	Dr . Manmohan .U.S.
A rare case of young female presenting with Plummer Vinson Syndrome	KAPICON- MAY 2017, MYSORE	Dr . Manmohan .U.S.
Study of lipid profile in CKD patients in AIMS	KAPICON- MAY 2017, MYSORE	Dr. Smitha Joseph
A case of Polycythemia Vera – JAK A MUTATION	KAPICON- MAY 2017, MYSORE	Dr. Smitha Joseph
Dysplastic pulmonary valve stenosis associated with unilateral absent 1st metacarpal	KAPICON- MAY 2017,MYSORE	Dr. Yogesh Sawariyaa
A clinical study of patients with CVA admitted in rural hospital	KAPICON- MAY 2017, MYSORE	Dr.Chaitra Sunil
Spectrum of Hepatic involvement in Dengue	APICON – JAN 2017, MUMBAI	Dr.Yogesh Sawariyaa
Study of significant lymphadenopathy in rural hospital	KAPICON- MAY 2017,MYSORE	Dr.Anand.L.
Lupus Nepritis in pregnancy	KAPICON- MAY 2017, MYSORE	Dr. Chaitra Sunil

ACTIVITIES IN THE DEPARTMENT

STATE LEVEL CME : UPDATE ON CARDIOLOGY

24TH JAN 2017

Topic : Update on Acute Coronary Syndrome – Recent guidelines

- Speaker: Dr. Arunsrinivas
- Chairperson: Dr. M. Shetty Shivakumar

Topic: An Overview of Cardiac Intervention

- Speaker: Dr. Jayakumar P
- Chairperson: Dr. Shashikantha, Professor of Medicine

Topic: Birds eye view of cardiac electrophysiology

- Speaker: Dr. Santhosh J
- Chairperson: H. Vasudeva Naik, Professor & HOD of Medicine

Topic: Valvular heart disease: guidelines in management

- Speaker: Dr. Srinivas P
- Chairperson: Dr. Shivaprakash N C Professor & HOD of pediatrics

Topic : Interesting ECG presentation with discussion

- Speaker: Dr. Santhosh J
- Chairperson: Dr. Shetty Shivakumar/ Dr. Shashikantha

Topic : Interesting 2D ECHO - Valvular Heart disease

- Speaker: Dr. Jayakumar P
- Chairperson: Dr. Jagannatha K / Dr. Madhura T L

Topic :case Discussion (With Medicine PG's)

Moderators :Dr. Arun Srinivas / Dr. Srinivas P

INVITED FACULTIES

- **Dr.Arun Srinivas HOD, Department of cardiac Science, Apollo BGS Hospital Mysore.**
- **Dr. Santhosh J Asst. Professor, Sri Jayadeva Institute of cardiology Mysore.**
- **Dr. Srinivas P Intervention cardiologist, Narayana Hrudayalaya Mysore.**

Recent advances in the field of medicine:

Exploiting the Micro biome to Prevent and Treat Human Diseases

Background

Over the past five years research on the interactions between the host and its intestinal micro biota has moved into the mainstream scientific arena with a stream of high impact publications describing how the microbiota can modulate the host's immune system, metabolism and influence host development and physiology. Considerable progress has been made in identifying, isolating and culturing members of the gut microbiota, but we are only beginning to understand the complex interplay between the microbiome, host genetics and host physiology. It is now clear that the microbial community has a beneficial role during homeostasis and that beneficial host-microbiota relationships are lost under inflammatory conditions.

The involvement of microbiota-human interactions in health and disease opens up many possibilities for rationally modulating these metabolic and immune interactions to prevent or to treat disease. Over the past few years several bacteria have been identified that have a profound effect on human physiology. A few colonic bacteria have been shown to have anti-inflammatory effects on immune cells and have protective effects in mouse models of inflammatory bowel disease. One example, is *Faecalibacterium prausnitzii*; administration of *F. prausnitzii* to mice protects against chemically induced colitis, a Th1-driven model of human inflammatory bowel disease (IBD).

These research studies support the concept of using microbial symbionts or their products for novel prophylactic or therapeutic applications in humans.

Objectives

To compare the protective capacity and immunomodulatory properties of selected anaerobic strains *in vitro* and gain more knowledge on their mechanism of action *in vivo*.

Overall aim of this study is to exploit anaerobic strains in order to promote health and prevent diseases in humans.

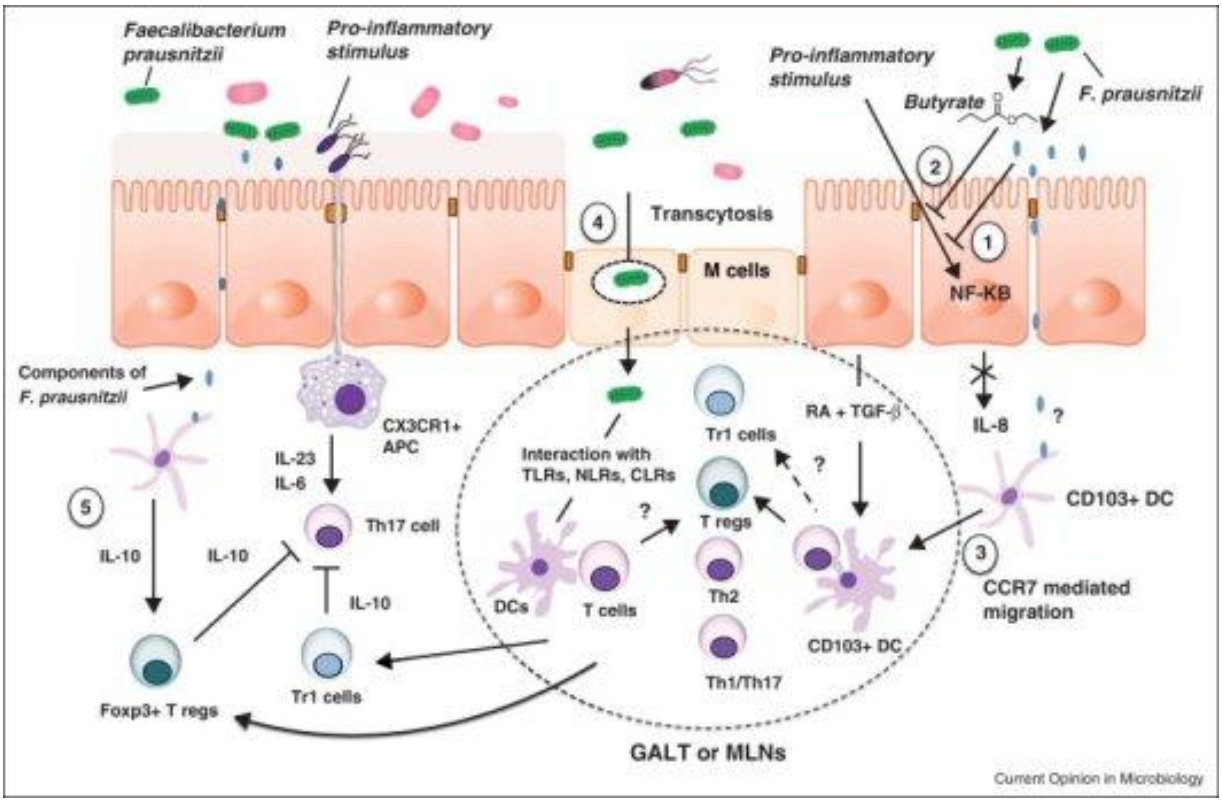
Methodology

In vitro experiment: PBMC assay (Flow cytometry & MagPix), cell
reporter assay (TLRs), TER assay (CellZScope), NO assay, NBT assay, ELISA and qPCR

In vivo experiment: colitis model, Germ Free (GF) mice

Requirements

Cell culture skills, knowledge of
basic immune-assays, preferably taken course HMI50306 Microbial Disease
Mechanisms


Faecalibacterium prausnitzii
Pro-inflammatory stimulus
Pro-inflammatory stimulus
Butyrate
F. prausnitzii
2
1
NF-KB
4
Transcytosis
M cells
Components of F. prausnitzii
CX3CR1+ APC
IL-23
IL-6
Th17 cell
5
IL-10
IL-10
IL-10
Foxp3+ T regs
Tr1 cells
Interaction with TLRs, NLRs, CLRs
DCs
T cells
?
Tr1 cells
T regs
Th2
Th1/Th17
RA + TGF-β
?
CD103+ DC
IL-8
?
CD103+ DC
3
CCR7 mediated migration
GALT or MLNs
Current Opinion in Microbiology