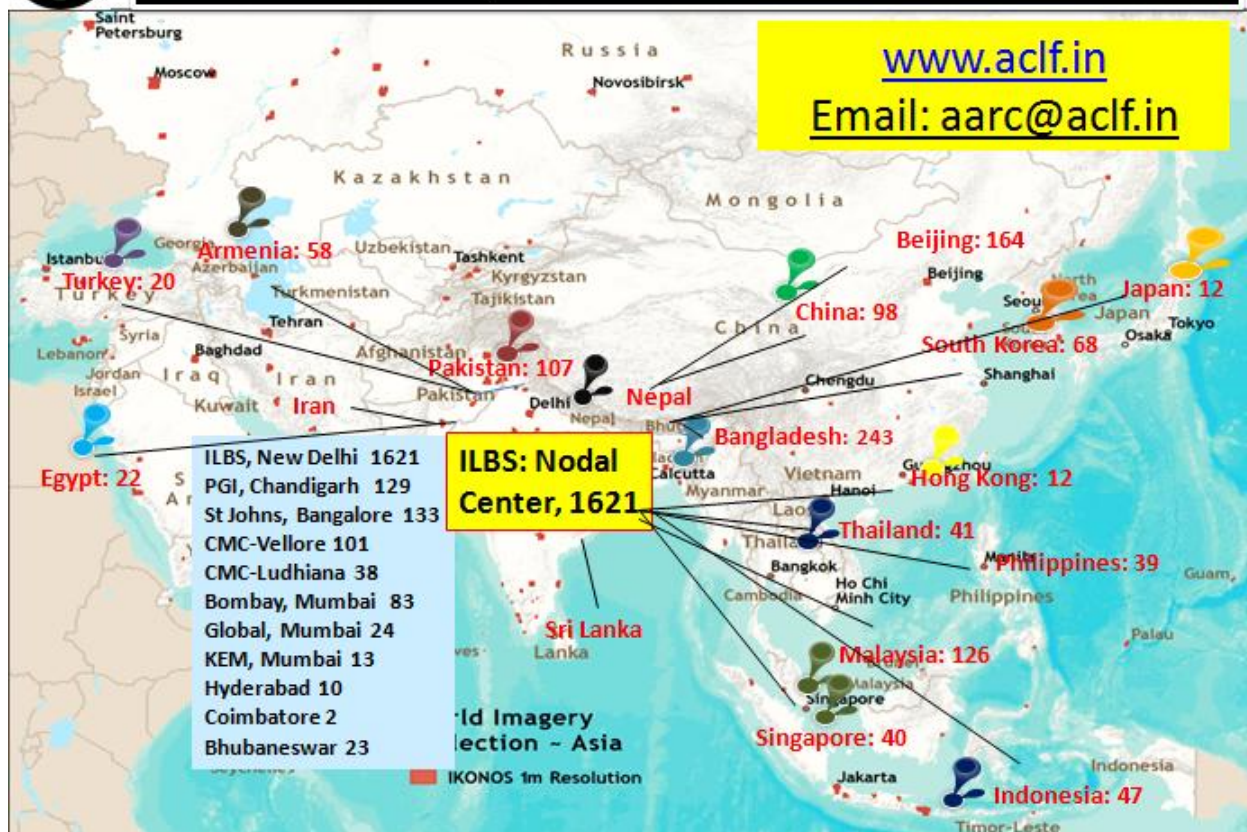




APASL ACLF
RESEARCH
CONSORTIUM



AARC – Globally Connected Centers



**INSTITUTE OF LIVER AND BILIARY SCIENCES
D1 VASANT KUNJ NEW DELHI 110070**

FOREWORD

The first consensus report of the working party of the Asian Pacific Association for the Study of the Liver (APASL) set up in 2004 on acute-on-chronic liver failure (ACLF) was published in 2009. Due to the rapid advancements in the knowledge and available information, a consortium of members from countries across Asia Pacific, "APASL ACLF Research Consortium (AARC)," was formed in 2012 in Dhaka. A large cohort of retrospective and prospective data of ACLF patients was collated and followed up in this data base. The current ACLF definition was reassessed based on the new AARC data base. These initiatives were concluded on a 2-day meeting in February 2014 at New Delhi and led to the development of the final AARC consensus. Only those statements which were based on the evidence and were unanimously recommended were accepted. These statements were circulated again to all the experts and subsequently presented at the annual conference of the APASL at Brisbane, on March 14, 2014. The suggestions from the delegates were analyzed by the expert panel, and the modifications in the consensus were made. The final consensus and guidelines document was prepared. After detailed deliberations and data analysis, the original proposed definition was found to withstand the test of time and identify a homogenous group of patients presenting with liver failure. Based on the AARC data, liver failure grading, and its impact on the "Golden therapeutic Window," extra-hepatic organ failure and development of sepsis were analyzed. New management options including the algorithms for the management of coagulation disorders, renal replacement therapy, sepsis, variceal bleed, antivirals, and criteria for liver transplantation for ACLF patients were proposed. These statements were circulated to all the experts, posted on the AARC Web site (www.aclf.in), and subsequently finalized.

APASL-ACLF Research Consortium is an initiative to bring experts from Asia-Pacific region to come together and form a working group on understanding and develop this distinct syndrome of acute-on-chronic liver failure, with a high short term mortality and more importantly, with a potential of reversibility. This initiative can begin and strive ahead by consolidating data of ACLF patients from all our centers together and then study and bring out a consensus guidelines which can be applied for the benefit of our diverse patients from Asia-Pacific.

From APASAL President

Message from Patron: Prof Sarin

APASL-ACLF Research Consortium (AARC):

APASL-ACLF Research Consortium is an initiative to bring experts from Asia-Pacific region to come together and form a working group ACLF. The natural history of ACLF, understanding the mechanism of disease and therapeutic options are the need of hour. This initiative can begin and strive ahead by consolidating data of ACLF patients across the globe, bring out a practice guidelines and to make a protocol driven treatment for improving the outcome of this potentially serious liver disease.

VISION AND MISSION

To develop a network of likeminded clinicians, researchers to work on ACLF, formulate the practice guideline, follow the evidence based treatment and to make the unified approach to this disease across the globe.

THE HISTORY OF AARC

2009

2012

2014

2015

2016

LATEST LIST OF AARC- ACLFCOLLABORATING INVESTIGATOR:**INDIA**

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr. Shiv Kumar Sarin	Institute of Liver and Biliary Sciences, New Delhi, India	India	shivsarini@gmail.com	1621
2.	Dr.Yogesh Kumar Chawla	PGIMER, Chandigarh India	India	ykchawla@gmail.com	129
3.	Dr. Harshad Devarbhavi	St John Medical College, Bangalore, India	India	harshad.devarbhavi@gmail.com	133
4.	Dr. C E Eapen/ Dr. Ashish Goel	CMC, Vellore, India	India	eapen@cmcvellore.ac.in drashishgoel@cmcvellore.ac.in	101
5.	Dr. Deepak Narayan Amarapurkar	Bombay Hospital & Medical Research Center, Mumbai, India	India	amarapurkar@gmail.com	83
6.	Dr. Ajit Sood	Dayanand Medical College, Ludhiana India	India	ajitsood10@gmail.com	38
7	Dr. P. N. Rao	Asian Institute of Gastroenterology Hyderabad, India	India	npadaki@yahoo.com	10
8	Dr. Samir Shah	Global Hospital, Mumbai, India	India	drshahsamir@gmail.com	24
9	Dr. V.G. Mohan Prasad	VGM Hospital Coimbatore, India	India	drvgm@hotmail.com	2
10	Dr. Vivek Saraswat	SGPGI, Lucknow India	India	profviveksaraswat@gmail.com	0
11	Dr Manoj K Sahu	IMS &SUM hospital, Odisha	India	ManojSahu427@gmail.com	23
12	Dr.Anil Arora	Sri Ganga Ram Hospital	India	dranilarora50@gmail.com	0
13	Dr. Akash Shukla	KEM Hospital and Seth GSMC	Mumbai	drakashshukla@yahoo.com	13
14	Dr Ajit Kumar	Nizam's Institute of Medical Sciences Panjagutta, Hyderabad, Andhra Pradesh,	India	ajitkrs@yahoo.com	0

ARMENIA

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AUSTRALIA

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1.	Prof Goeff McGauhan	Australia	Australia	g.mccaughan@centenary.org.au	0

BANGLADESH

S.No	Doctor Name	Center	Country	Email Id	contribution
1.	Dr. Mamun-Al-Mahtab	Bangabandhu Sheikh Mujib Medical university, Dhaka, Bangladesh	Bangladesh	shwapnil@agni.com	233
2.	Dr. Md. Fazal Karim	Sir Salimullah Medical College, Mitford Hospital Bangladesh	Bangladesh	drfazalkarim@gmail.com	10
3.	Dr Faiz Ahmad Khondaker	Shaheed Suhrawardy Medical , Bangladesh	Bangladesh	faizkhondaker@yahoo.com	0
4.	Dr. Salimur Rahman	Bangabandhu Sheikh Mujib Medical university, Dhaka Bangladesh	Bangladesh	hbd@dhaka.net salimur51@yahoo.com	0

CHINA

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1.	Dr. Zhongping Duan/ Dr. Chen Yu	Beijing You'an Hospital; Translational Hepatology Institute Capital Medical University	China	duan2517@163.com chybeyond@163.com	112
2.	Dr. Qin Ning/ Dr. Jidong Jia /Dr. Ke Ma	Tongji Hospital, Tongji Medical College/ Beijing Friendship Hospital, Capital University, Beijing, China	China	qning@vip.sina.com jia_jd@ccmu.edu.cn markusleo@hotmail.com	98
3.	Dr. George K. Lau	Humanity and Health Medical Group; Consultant in Gastroenterology & Hepatology;	China	gkklau@netvigator.com	22

		Founder Trustee of Cheng Si Yuan (China-International) Hepatitis Research Foundation			
4.	Dr.Qing Liu	Beijing Youan Hospital, Capital University of Medical Sciences, Beijing , China	China	liuqing7@yahoo.com	0
5.	Dr. Jinhua Hu	302 Millitary Hospital Beijing,China	China	hjh@medmail.com.cn	30
6.	Dr.Huifen Wang	Linger PLA Third Hospital Address: Beijing West Fourth Ring Road 100, Zip: 100039, China	China	wanghuifen@medmail.com.cn	0
7.	Dr.Yuming Wang	Institute of Infectious Diseases, South West Hospital, Chongqing, China	China	wym417@163.com	0
8.	Dr. Man-Fung Yuen	Queen Mary Hospital Hong Kong, China	China	mfyuen@hkucc.hku.hk mfyuen@hku.hk	12
9.	Dr. Albert Chan	Queen Mary Hospital, Hong Kong, China	China	acchan@hku.hk	0
10.	Dr.Sheung Tat Fan	The University of Hong Kong, Queen Mary Hospital, Hongkong, China	China	stfan@hku.hk	0
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13.	Dr. Chieu-Hao Huang	Linkou Chang Gung Memorial hospital	Taiwan	huangchianhou@gmail.com	0

EGYPT

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr.Gamal Shiha	Egyptian Liver Research Institute And Hospital (ELRIAH), Egypt	Egypt	g_shiha@hotmail.com	22
2.	Dr. Alaaeldin Ibrahim	University of Benha, Egypt	Egypt	alaabkbs@yahoo.com	0

INDONESIA

S.No	Doctor Name	Center	Country	Email Id	Contribution
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IRAN

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2.	Dr. Kourosh Masnadi	Tabriz University, Iran	Iran	kurmas23@yahoo.com	0

JAPAN

S. No	Doctor Name	Center	Country	Email Id	Contribution
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2.	Dr. Kang	Teine Keijinkai Hospital Sapporo, Japan	Japan	kanjh@keijinkai.or.jp	0

KOREA

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr. Chang Wook Kim	The Catholic University of Korea , College of Medicine, Seoul, Korea.	Korea	cwkim@catholic.ac.kr	68
2.	Dr. Dong Joon Kim	Division of Gastroenterology and Hepatology Hallym University College of Medicine	Korea	djkim@hallym.ac.kr	0
3	Prof. Jae Young Jang	Soonchunhyang University Seoul Hospital, Korea	Korea	jyjang@schmc.ac.kr	0
4	Dr Moon Young Kim	Associate Professor Division of Gastroenterology and Hepatology Department of Internal Medicine Wonju Severance Christian Hospital Yonsei University Wonju College of Medicine	Korea	drkimmy@yonsei.ac.kr	0

MALAYSIA

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr. Soek-Siam Tan	Division of Gastroenterology, Chulalongkorn	Malaysia	tansoeksiam@yahoo.com	126

		University,			
2.	Dr. Rosmawati Mohamed	Department of Medicine, Faculty of Medicine, University of Malaya, 50603 Kuala Lumpur, MALAYSIA	Malaysia	ros@ummc.edu.my	0

NEW ZEALAND

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1.	Dr. Ed Gane	Auckland City Hospital Auckland, New Zealand	New Zealand	EdGane@adhb.govt.nz	0
	Dr. Debi Prasad	University of Auckland	Auckland	debip@adhb.govt.nz	0

NEPAL

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr Ananta Shrestha	Consultant Hepatologist, Liver Foundation Nepal Sitapaila Height, Kathmandu, Nepal	Nepal	anant_02@hotmail.com	0

PHILIPPINES

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr.Diana Alcantara-Payawal	Cardinal Santos Medical Center 10 Wilson St. Greenhills West San Juan City, Metro Manila 1502, Philippines Fatima Medical University Hospital, Valenzuela MetroManila, Philippines	Philippines	dianapayawal@yahoo.com	21
2.	Dr. Jose D Sollano/ Dr.Gian Carpio	Cardinal Santos Medical Center, Metro Manila , Philippines	Philippines	joeys_812@yahoo.com giancarpiomd@yahoo.com	18

PAKISTAN

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr. Saeed Sadiq Hamid/ Dr. Amna	Aga Khan University Hospital, Karachi, Pakistan	Pakistan	saeed.hamid@aku.edu amna.subhan@aku.edu	79

	Subhan Butt				
2.	Dr. Zaigham Abbas	Sindh Institute of Urology and Transplantation, Karachi, Pakistan	Pakistan	zaigham.abbas@aku.edu drzabbas@gmail.com	28

SINGAPORE

S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr. Guan Huei LEE	Department of Medicine, Yong Loo Lin School of Medicine, National University of Singapore	Singapore	Guan_Huei_LEE@nuhs.edu.sg	40
2.	Dr. Chun -Tao Wai	Desmond Wai Liver & Gastrointestinal Diseases Centre (Mount Elizabeth Novena Hospital) Singapore	Singapore	dr_desmond_wai@yahoocom.sg	0
3.	Prof Seng Gee Lim	Department of Medicine, Yong Loo Lin School of Medicine, National University of Singapore	Singapore	seng_gee_lim@nuhs.edu.sg	0

SRILANKA

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1.	Dr. H. Janaka De Silva	University of Kelaniya, Ragama, Srilanka	Srilanka	hjdes@sltnet.lk	0

THAILAND

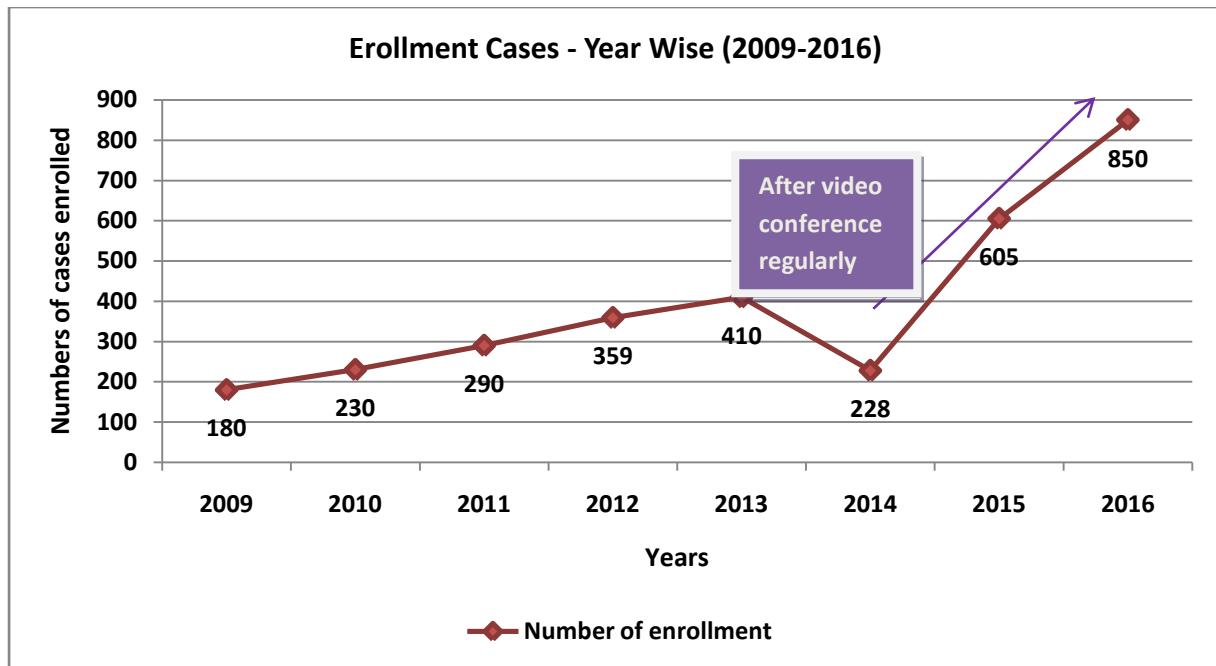
S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr. Piyawat Komolmit	Chulalongkorn University Bangkok, Thailand	Thailand	pkomolmit@yahoo.co.uk	0
2.	Dr. Sombat Treeprasertsuk	Division of Gastroenterology, Department of Internal Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand.	Thailand	battan5410@gmail.com	41

TURKEY

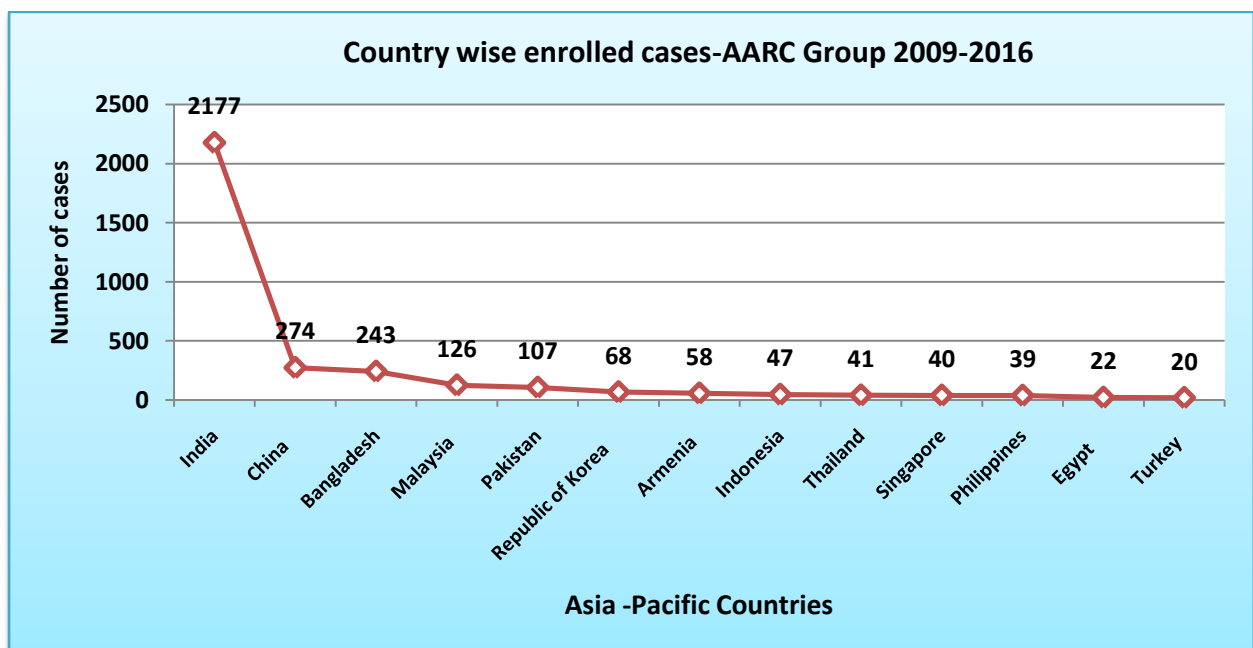
S.No	Doctor Name	Center	Country	Email Id	Contribution
1.	Dr. A. Kadir Dokmeci	Ankara University School of Medicine, Turkey	Turkey	akdokmeci@hotmail.com	20

Enrolled Cases in AARC Database- Year wise:

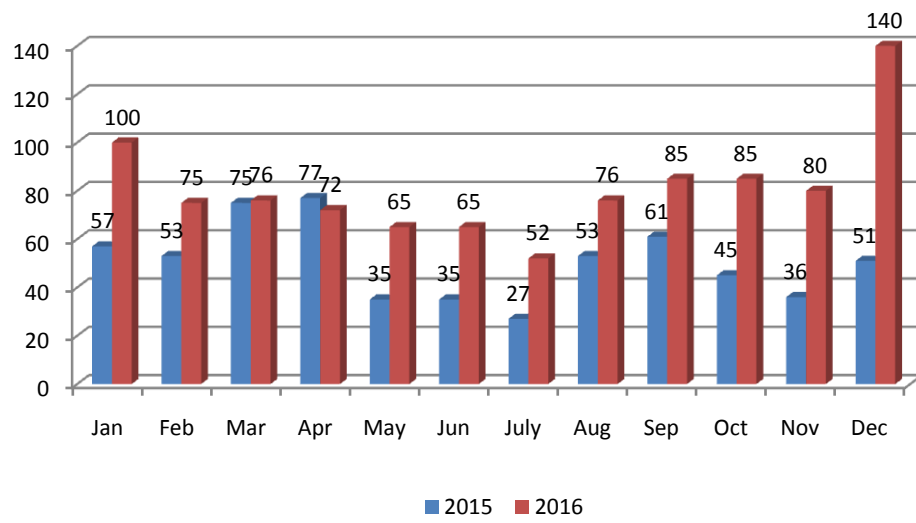
It is also important that we collate all the data from each country and center and pool the information. This proforma was approved in the Dhaka meeting on ACLF on 2012. **3262 cases** have been registered in our online database due to great efforts by investigators across Asia.



Enrolled Cases in AARC Database- Centre wise:



**Comparison between 2015 vs 2016 enrollment: 2015=605, Dec
2016=971**



Enrolled Cases in AARC Database- Centre wise:

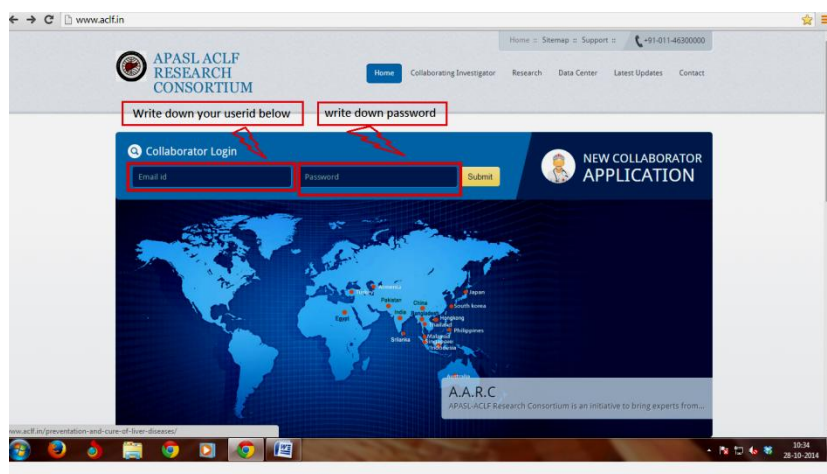
Sr. No	Dr Name	Country/Ce nter	(up to Feb, 2014)	(Feb, 2014 to Dec , 2014)	Jan,2015 to Dec,2015	Jan,2016 to Dec,2016	Overall
1	Dr Sarin	ILBS,India	850	158	230	383	1621
2	Dr Mamun-Al Mahtab	Bangladesh	99	2	12	120	233
3	Dr Harshad Devarbhavi	Bangalore	5	7	96	25	133
4	Dr Yougesh Chawala	Chandigarh	75	11	28	15	129
5	Dr Tan SS	Malaysia	75	10	17	24	126
6	Dr Zhongping Duan	Beijing	-	-	52	60	112
7	Dr Eapen	Vellore	-	7	37	57	101
8	Dr Qin Ning, Jidong Jia,	China	96	-	0	2	98
9	Dr Deepak Amrapurkar	Bombay Hospital	50	10	12	11	83
10	Dr Kim	Republic of Korea	68	-	0	0	68
11	Dr Saeed Hamid/Amna subhan Butt	Karachi, Pakistan	33	10	25	11	79
12	Dr Hasmik	Armenia	27	5	15	11	58
13	Dr Laurentius A. Lesmana	Indonesia	4	3	15	25	47
14	Dr Sombat	Thailand			0	41	41
15	Dr Guan Huei Lee	Singapore	16	2	22	0	40
16	Dr Ajit sood	Ludhiana, India	-	-	0	38	38
17	Dr Jinhua hu	China			0	30	30
18	Dr Zaigham Abbas	Pakistan	11	8	6	3	28
19	Dr Samir Shah	Global Hospital			0	24	24
20	Dr Manoj K sahoo	IMS,Bhuvne shur, India			0	23	23
21	Dr George K Lau	China			0	22	22
22	Dr Gamal Shiha	Egypt	15	-	0	7	22
23	Dr Diana Alcantara-Payawal	Philippines	-	-	21	0	21
24	Dr A. Kadir Dokmeci	Turkey	15	2	2	1	20
25	Dr Jose	Philippines			7	11	18
26	Dr Akash Shukla	India			0	13	13
27	Dr P N Rao	Hyderabad, India			3	7	10
28	Dr Fazal Karim	Bangladesh	-	-	3	7	10
29	Dr Man-Fung Yuen	Hong Kong	12	-	0	0	12
30	V G Mohan Prasad	Coimbatore, India			2	0	2
	Total		1451	235	605	971	3262

How to become a member of AARC

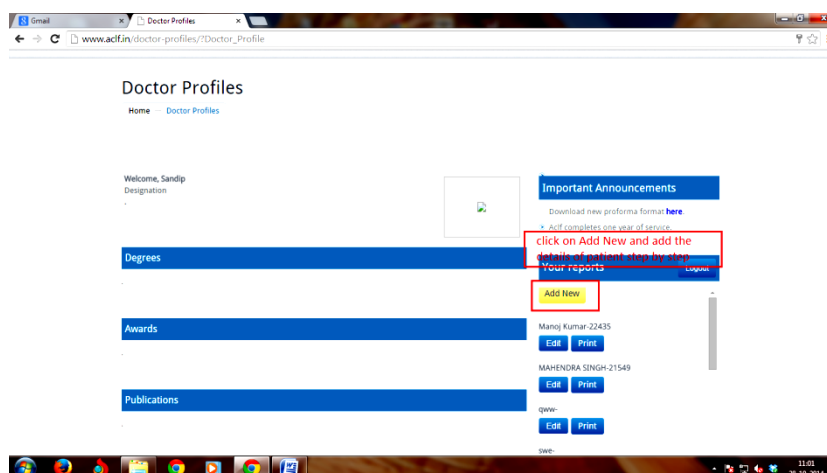
- You have to be a gastroenterologist/ Hepatologist and having interest to pursue the patient enrolment as well as research in the field of ACLF.
- Can visit the website www.aclf.in and follow the instruction
- Send us a request email on ashok@aclf.in to become a member.
- We provide you with a login id and password to access the website and enter the data in the database.

How to upload data online

Step 1: First you enter the site name www.aclf.in. This page will be open. Enter your user id and password in collaborator login as display below.



Step 2: After entering user id and password next page will be open. Now click on **Add New** and enter the details of patient of demographic and clinical as display below.



Step 3: Click on **Add New** then below page will be open, fill all the details of patient and at bottom there is an option save and next do it and click on next. Continue this till all details would be filled as shown below.

Fill this detail and at bottom do save and next then you move on next page. Repeat this process till all detail would be filled.

Asian Pacific Association for the Study of the Liver (APASL) [Back to your profile](#) [Logout](#)

Patient proforma

Site/Centre	Country	Faculty in Charge
Date of inclusion	AARC enrollment No	Patient name
Age	Sex	BMI
Address	Telephone no	E mail

Inclusion criteria (Based on APASL definition of ACLF)

- ☐ Jaundice to liver failure interval upto 4 weeks ☐ Yes
- ☐ Jaundice (serum bilirubin ≥ 5 mg/dL [$85 \mu\text{mol/L}$]) ☐ Yes
- ☐ Coagulopathy (INR ≥ 1.5 or Prothrombin activity $<40\%$) ☐ Yes
- ☐ Liver failure characterized any one of these: ☐ Yes
 - ☐ Ascites on physical examination ☐ Yes
 - ☐ Clinical Encephalopathy ☐ Yes

Exclusion criteria

- ☐ Age <2 or >75 year.
- ☐ Underlying
- ☐ Already decompensated cirrhosis prior to acute insult.

Benefits of joining AARC

- Being a member of AARC, the largest multinational trial with over 3262 enrollments till now gives you the access to a wide variety of data to carry out further research
- Can pursue research, prepare manuscript and publish your work published under ACLF APASL working party
- We encourage for new ideas and research initiatives under the name of AARC
- Enough scope for ownership in particular area in the field of liver disease

HIGHLIGHT OF AARC ACTIVITIES:

- The major multinational project considering 56 centres till now across Asia for ACLF online registry.
- A comprehensive website www.aclf.in with a unconditional support from dedicated information technology department.
- Till date **21** monthly video conferences have been held that enable to share, interact and discuss the progress of the work among investigators across the globe.
- Till now conducted 5 APASL ACLF (AARC) consensus meetings , the last one held in AASLD , Tokyo in 2016
- The AARC group works under the protocol driven treatment.
- A manuscript policy as per the area of interest for work and publish.

ACHIEVEMENTS/MILESTONES OF AARC

- Largest ever number patient enrolled across the countries
- No of abstracts in pipeline – 10
- EASL,
- APASL,
- AASLD
- One abstract for Young investigator award in ILTS 2016
- Total number of pubmed articles on APASL ACLF definition
- Most of articles on ACLF and liver transplant till date published follow APASL definition

AARC Nodal Centre Team

Patron	: Prof. S K Sarin
Principal investigator	: Dr. Ashok Choudhury
Statistician	: Dr. Priyanka Jain
Research Assistant	: Dr. Irene Paulson
IT support team	: Mr. Sandeep
Registered Clinical Nurse	: Bindu

Members

Prof BC Sharma

Prof Y K Joshi

Dr Manoj, Dr Rakhi, Dr Kapil, Dr Ankur, Dr Lovkesh, Dr Shasthry, Dr Amreesh

Support team

Research lab- regeneration, physiology, portal hypertension, microbiota, omics

Biobank

Animal house

Hepatic hemodynamic lab

Photo Gallery

4th APASL ACLF (AARC) consensus meeting in AASLD, Boston:



3rd APASL ACLF (AARC) consensus meeting in ILBS, New Delhi:



2nd APASL ACLF (AARC) consensus meeting in Dhaka



Video conference meeting on regular basis in ILBS (Nodal Center), New Delhi

