



VCU Global Surgery

INTERNATIONAL TRAUMA SYSTEM DEVELOPMENT PROGRAM (ITSDP)

Division of Acute Care Surgical Services
VCUMC Department of Surgery
VCU School of Medicine
Richmond, Virginia, USA

Administrative Headquarters for
PANAMERICAN TRAUMA SOCIETY (PTS)



PTS ACTIVITY REPORT 2010-2020

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Table of Contents

I. Introduction

II. Summary Timeline

III. Abridged report of collaborative work between the PTS-VCU, 2010-2020

1. Annual International Congresses
2. Leadership positions held by VCU since 2011
3. Medical Students leadership
4. International Observership Scholars: to VCU SOM/Hospital
5. International Research Competition
6. International Travel Scholarship/ Fellowship exchange
7. EMS Exchange Program
8. ITSDP/PTS Registry
9. International Trauma Tele-Grand Rounds
10. Global Response to COVID-19 Webinar Series
11. Multicenter trials
12. PTS website
13. Panamerican Journal of Trauma and Acute Care Surgery and Emergency Surgery
- 14: PTS Membership
- 15: Trauma Center Verification:
- 16: PTS Strategic Retreat 2017-2019

I. Introduction

In 2010, The Virginia Commonwealth University Medical Center became the headquarters for the Panamerican Trauma Society (PTS) hosted by the VCU Department of Surgery's Division of Acute Care Surgical Services at VCU School of Medicine.

The PTS is the lead organization for the advancement of trauma care systems in the Americas. The society seeks to improve trauma patient care by enhancing trauma systems, educating health care personnel and the new generation of medical and nursing students, and emphasizing injury and violence prevention.

The society's programs include Trauma systems development, educational conferences, academic and training courses, peer-reviewed publications, as well as advocacy at the local and national levels. Thus, PTS serves as a venue for VCU's faculty, students, and staff to be involved in international initiatives regarding the care of the injured.

VCU's International Trauma System Development (ITSDP) – functions under the umbrella of the VCU Global surgery program. ITSDP is dedicated to the ongoing study and development of international systems for the prevention, diagnosis, and treatment of trauma. ITSDP's Medical School Chapter has helped to establish and currently leads the PTS International Medical Students Committee, providing significant opportunities for our students to be involved in trauma care and system development at international levels. ITSDP student chapter currently functions under the umbrella of the SOM's student ACCESS program -

PTS and VCU-ITSDP work collaboratively to offer opportunities in academic and research projects that focus on preventive and critical care management of the injured patient.

2010-2020 – VCU international impact

VCU progressively led the dissemination, development, and establishment of Emergency Medical Services (EMS) systems/models in Latin America & the Caribbean. As a result of these endeavors, currently, VCU is recognized as an outstanding international center for the improvement of Trauma Care in high, middle, and low-income countries. Moreover, these activities enhanced VCU's recruitment of residents, faculty, and staff, as well as exposed students, residents, and staff to multiple global health projects.

II. Summary Timeline:

- **In November 2010**, VCU became the Headquarters for the Panamerican Trauma Society (PTS) under the leadership of Dr. Rao Ivatury as Executive Director and Dr. Michel Aboutanos as Secretary-Treasurer. A successful campaign was carried out during the first four years to reinvigorate and reshape the Panamerican Trauma Society. **VCU's International Trauma Systems Development Program (ITSDP) ongoing international activities were used as the platform to promote system development in the region.**

- **2013: VCU-SOM - Administrative Headquarters Renewal**
In November 2013, the PTS Board of Directors voted for Drs. Ivatury and Aboutanos to continue as the Executive Directors and Secretary-Treasurer of the PTS, respectively, effectively keeping VCU School of Medicine (SOM) as the administrative headquarters for the Panamerican Trauma Society.
- **2015 VCU-SOM – Permanent headquarters**
In Nov 2015, The PTS Board of Directors voted for VCU to become the permanent headquarters (HQ) for PTS
- **2016 VCU-SOM – MOU HQ office support**
VCU SOM officially provided 3-year support for the PTS HQ staff, reduced VCU CME support, and MCVF Foundation administrative support.
Dr. Aboutanos was designated as VCU/MCVF representative and voting member on the PTS Executive Board.
- **2018 VCU-SOM expanded support to HQ office**
In August 2018, VCU SOM officially expanded support for an additional 3 years to the PTS HQ office to continue promoting and expanding education and research locally and internationally.
- **2019: PTS partnered with MCVF**
On May 19, 2019. PTS Board of Directors voted to partner with MCVF to work collaboratively on fundraising efforts and expand MCVF administrative support. Both organizations aim to work together seeking connections with donors and supporters who are interested in sustaining international and regional research and educational endeavors. Dr. Michel Aboutanos, VCU faculty was officially appointed as the liaison between the two organizations.

III. Abridged report of collaborative work between the Panamerican Trauma Society and Virginia Commonwealth University, 2010-2019

1. Annual International Conferences: Eight annual International Academic Congresses were successfully held in Paraguay (2011), Colombia (2012), and Chile (2013), Panama (2014), Bolivia (2015), Brazil (2016), Mexico (2017), Colombia (2018), with increasing participation over time of 600 to 2,000 people per congress, with internationally renowned speakers representing 23-25 countries. VCU's role in international development and educational initiatives was significant at all levels highlighting VCU's contributions to the international community.

In October 2020, the 1st PTS Virtual Conference was held (secondary to the COVID Pandemic). The 3-day congress was wildly successful with 58 international speakers, 5 pre congress courses and more than 24 plenary sessions and workshops. In total, there 5, 200 registrants. An impressive record for PTS-VCU

PTS Congresses and VCU impact / participation:

In 2011, in Paraguay, 9 oral presentations were held by attending, residents, students, and administrative coordinator representing the VCU Medical Center.

In 2012, in Colombia, 13 oral presentations were held by attending, residents, students, and administrative coordinator representing the VCU Medical Center.

In 2013, in Chile, VCU participation included 6 attendings, 1 international fellow, 1 surgical resident, 2 medical students, 1 nurse practitioner, 1 injury prevention coordinator, with 8 oral presentations held and 1 administrative coordinator

In 2014, in Panama, VCU participation included 5 attendings, 1 surgical resident, 1 medical student, 1 injury prevention coordinator. Activities included: 2 plenary session presentations, 2 parallel session presentations, 16 podium presentations, 3 course directorships, 5 courses with VCU faculty, 2 session moderators, 1 general oral research presentation, 1 student oral research presentation, 2 general mini-oral poster presentations (including a VCU NP), and 1 resident mini-oral poster presentation and 1 administrative coordinator.

In 2015, in Bolivia, VCU participation included 5 attending, 1 surgical resident, 1 medical student, 1 injury prevention coordinator, 1 research fellow, and 1 VCU/RAA EMS coordinator. Activities included: 1 plenary session presentations, 1 parallel session presentation, 8 podium presentations, 3 course directorships, 5 with VCU courses faculty, 4 session moderators, 2 general oral research presentation, 1 student oral research presentation, and 1 administrative coordinator.

In 2016, in Brazil, VCU participation included 4 attendings, 2 medical students, 2 PTS-VCU administrative coordinators. Activities included site 2 medical students-based injury control workshops, 4 course directorship, 5 course faculty, 2 plenary session presentations, 2 parallel session presentations, 6 podium presentations, 2 session moderators, 2 general oral research presentation, 1 student oral research presentation, 1 NP presentation.

In 2017 in Mexico, VCU participation included 4 Trauma/ACS attendings, 1 burn attending, 2 nurse practitioners, 2 coordinators, 1 research assistant, 1 VCU/RAA EMS coordinator and 3 medical students. VCU Activities included: 11 oral presentations, 2 plenary sessions, 2 special sessions, directed/chaired the inauguration of 2 international courses (Ferrada), directed/chaired the Essential Trauma Care course (Rodas), and an international student Forum (Nehal Neik VCU PGY4).

In 2018, in Colombia, VCU participation included 4 Trauma/ACSS attendings, 1 burn attending, 1 resident research presenter, 2 medical students, 2 PTS coordinators, and 1 ITSDP coordinator. VCU activities included 5 plenary sessions, 2 international courses, and 1 VCU student chair of the International Student Committee (H. Nobel).

In 2019- Congress cancelled secondary to civil unrest in Chile.

In 2020, the 1st Virtual Conference , VCU participation included podium presentations by 3 trauma attendings, 2 medical students (Kevin Parham and Helen Nobel), 2 VCU faculty directing and coordinating a course (Dr. M. Feldman & Dr. P. Ferrada) and 2 faculty coordinating expert opinion seminars (Dr. M. Aboutanos and Dr. P. Ferrada.)

Participation of VCU affiliated attendings, residents, students, nurses and other 2011-2020		VCU Activities at PTS Congresses 2011-2020	
Attendings	33	Plenary session presentations	14
Surgical resident & International fellows	7	Parallel session presentations	5
Medical students	13	Podium presentations	71
Nurse practitioners	4	Course directorships	13
Injury Prevention coordinators	3	Courses with VCU faculty	18
VCU/RAA EMS coordinators	2	Session moderators	8
VCU-PTS coordinators	11	Workshops	3
Research assistant	1	Research presentations (oral-Mini-oral)	11
Total	74	Total	143

2. Leadership positions held by VCU since 2011:

Dr. Rao Ivatury served as Executive Director (2010-13; 2013-16)
Dr. Rao Ivatury elected Editor in Chief of the Panamerican Journal of Trauma (2017-2018)
Dr. Aboutanos served as Secretary-Treasurer (2010-13; 2013-15)
Dr. Aboutanos voted as President-elect (2015), President (2016)
Dr. Stephanie Goldberg elected to co-chair the Injury Prevention Committee (2015-17), Chair 2018
Dr. Ferrada elected co-chair of the Education & Research Committee (2015), Chair 2018
Dr. Paula Ferrada served as Board member 2016-18
Dr. Paula Ferrada elected as Secretary of the PTS 2018
Dr. Aboutanos to serve on the new Program Committee, 2018
Dr. Aboutanos to serve on the Publication Committee, 2018
Dr. Feldman elected as co-chair of the Burn Committee, 2018
Dr. Rodas elected as chair of the Trauma Systems Committee, 2018
Dr. Feldman elected to the Board of Managers, 2018
Dr. Michel Aboutanos appointed as MCVF-PTS liaison 2019

3. Medical Students leadership:

MS2 Esther Johnston Founder and Co-chair of PTS medical Student committee 2010-11
MS4 Maya Iyengar voted to co-chair of the Medical Student Committee 2012-14
MS4 Nehal Neik voted to chair of the Medical Student Committee 2014-16

MS2 Helen Nobel nominated co-Chair of the International Student Committee 2016-19
 MS2 Kevin Parham appointed as a co-Chair of the International Student Committee 2019-22

4. International Observership Scholars to VCU SOM/Hospital (Table 1)

The International Observership Program (IOP) for Trauma/EMS system development collaborated with various international academic institutions, VCU departments, Richmond Prehospital Community, and other US-based Trauma Centers to offer international Observerships. The results of visiting scholars at VCUMC include:

Period	#	Observers and scholars at VCU Medical Center.
2011-2018	36	Medical Students (10), General Practitioner (6), Surgery Resident (3), Trauma Fellows (14), General Surgeon (1), ICU Medicine resident (1), Trauma Attending/ Chief of Surgery (1)
2019-2020	13	Medical Students (3), General Practitioner (4), Surgery resident (2), Trauma Fellows (2), Paramedic (1), and a Trauma Nurse (1)

Participating countries: Ecuador (13), Colombia (14), Brazil (8), Chile (5), Dominican Republic (1), Mexico (2), Costa Rica (1), Perú (1), Sudan (1), India (1), Egypt (1), and Israel(1).

5. International Research Competition

Organized forum for academic scholarship and research presentations for Scholars, Residents, Advanced Providers, and Students.

Results	2018-2020	2011-2017	Total
Abstracts submitted	711	2,291	3,002
Scientific abstracts presented	224	1,044	1,268
VCU oral presentations	4	26	30

6. International Travel Scholarship/ Fellowship exchange

Instituted to supports academic scholarships for international travel awarded to recipients who demonstrated excellence in research endeavors. Results since 2011-2020:

Granted academic travel scholarships	2018-2020	2011-2017	Total
Disaster and EMS Management	4	36	40
Injury and Violence Prevention and Burns	4	10	14
International Fellowships		2	2
			56

Sponsorship. VCU faculty who sponsored International Travel Scholarships since 2013: Dr. Michel Aboutanos (6), Dr. Michel Feldman (1), Dr. Stephanie Goldberg (1), Dr. Paula Ferrada (2)

7. EMS Exchange Program:

Developed International Prehospital Exchange program through collaborative work with VCU CTCCE, Virginia Association of Volunteer Rescue Squad (VAVRS), Richmond Ambulatory Authority and office of EMS. During 2017 VCU–RAA conducted a collaborative exchange with Ecuador/ Colombia, and expanded/Replicated the model outside of PTS for the Rwandan Project (Dr. S. Jayaraman)

8. ITSDP/PTS Registry

International, electronic, web-based, bilingual **Trauma Registry (TR)** with integrated data quality and error review system with VCU supported server and database management. TR is an electronic hospital-based injury surveillance tool that systematically stores data of trauma patients that can be used to assess the true burden of injury. TR data allows hospitals to track and monitor emergency and trauma services and validate the actual burden of trauma injuries (quantity, type, mechanisms).

Users	Country	2018- Date	2011-2017
Number of Hospitals	Peru	3	
	Bolivia		5
	Colombia		3
	Ecuador		1
	Panama		1
Number of Records		45,332	60,655

November 2017	14 new hospitals expressed interest in using the TR
December 2017	Started development of TR version in Portuguese to respond to market demand. In 2018, software development slow down due to a shortage of IT/VCU staff.
June 2018	TR/VCU administrative staff continue to help users. In June 2018, TR Spanish version needed technical adjustments. At the same time, software maintenance decreased due to insufficient IT/VCU staff.

9. International Trauma Tele-Grand Rounds

Weekly International Trauma grand rounds with the participation of VCU attendees (faculty, residents, students) since 2012.

10. Global Response to COVID-19 Webinar Series. (Table 2 below)

Beginning in March 2020 , VCU conducted 21 Global Response to COVID-19 Webinar Series in collaboration with the University of Miami and other international organizations with support and participation of VCU faculty: Dr. Michel Aboutanos, Dr. Edgar Rodas, Dr. Paula Ferrada, Dr. Kristen Miller, and Dr. Vigneshwar Kasirajan. **In total , 3105 providers participated from 64 countries.**

11. International Multicenter trials (MCT).

Dr. Paula Ferrada representing VCU, organized the first PTS MCT with researchers from 13 different centers in Latin and North America resulting in a podium presentation at the American association for the surgery of trauma and a publication in 2018 .

12. PTS website organized and managed by VCU HQ:

Multilingual website integrated with membership software, member database, website builder, events management online payment, and automated email mass communication. Websites are linked to an online call for paper software. Both software are managed by VCU/PTS staff.

13. The Panamerican Journal of Trauma Acute Care and Emergency Surgery is an online open-access journal that has served as a significant outlet for VCU research scholars and served to advance VCU's academic agenda. VCU researchers have produced:

- 24 Peer-reviewed publications in the last 22 issues.
- 5 Peer-reviewed publications in 2019 (M. Aboutanos, E. Rodas, S. Goldberg, A. Cassano, R. Ivatury, N. Valencia, J.F. Whelan, P. Ferrada)
- 1 Peer-reviewed publications in 2020 (S. Jayaraman, A. Rosenberg)

14. Membership

- 600 Constant active members
- 3,000 Members with fluctuating memberships
- 81 VCU members. Physicians (14), RNs (5), Residents (2), Social worker (1), Other (6), Students (53) affiliated to VCU's Student Chapter (53 Membership financed by Dr. Michel Aboutanos and Edgar Rodas)

15. Trauma Center Verification Process for the Latin region:

Under Dr. Aboutanos and Dr. Rodas' ITSDP Trauma Care Guidelines and platform Development for EMS/Trauma systems, Trauma center verification process was developed.

Activities:

VCU led Teams : Ecuador- 2013

VCU led Teams: Bolivia – 2016

VCU led Teams: Nicaragua – 2017

Potential expansion of activities – 2020. PTS officers are assessing potential partnerships with WHO/PAHO and other entities.

16. PTS Strategic Retreat Results

Panama 2017 – PTS board identified key measures to lead the organization to be a self-sustaining entity. Potential sources of funding include a) delivery of high-quality products, b) marketing and branding, and c) professionalization of PTS operations aimed to generate revenues. VCU support continues to be vital toward PTS becoming a self-sustaining organization.

Richmond VA, 2018 – PTS board of directors reaffirmed their commitment to continue collaborations with VCU to support the university's global agenda and its international exposure efforts. To this end, Dr. Thomas Scalea, PTS Executive Director and VCU alumni, met with VCU leaders in May 2018.

Richmond VA, 2019 – PTS-MCVF leadership met and agreed to collaborate on fundraising activities, building awareness, marketing and branding, and exploring other funding sources. MCVF and PTS will

work together to bring attention to PTS and VCU's international work and global contributions to education and research.

Table 1: International Observership Program. Participants from 2011-2020

INTERNATIONAL OBSERVERSHIP PROGRAM 2011 - 2020						
YEAR		OBSERVER'S NAME	COUNTRY	ACADEMIC TRAINING	EMAIL	DATES
2011	1	Juan Carlos Salamea	Ecuador	Trauma fellow	jsalamea@gmail.com	
	2	Juan S. Martinez Collazos	Colombia	Trauma fellow	jsmartinezmd@gmail.com	
2012	3	Carolina Talini	Brazil	Medical student	caroltalini@yahoo.com.br	
	4	Luis Fernando Pino	Colombia	Trauma fellow	ferpmd@gmail.com	
	5	Amadeus Uribe	Colombia	Medical student	Amadeus_uribe@msn.com	
	6	Maria Beatriz Retamales	Chile	General surgeon	bretamales@hotmail.com	
	7	Ana Maria Pacheco	Chile	Trauma surgeon	apachecof@vtr.net	
2013	8	Wilmer Botache	Colombia	Trauma fellow	wilmerbotachec@hotmail.com	
	9	David Scavo Montes	Mexico	Trauma fellow	davidscavo@hotmail.com	
	10	Maria Gabriela Mata	Ecuador	Medical student	gabimc16@hotmail.com	
2014	11	Fernando David Miñan	Colombia	Trauma fellow	ferminanarana@gmail.com	
	12	Fernando Rodriguez	Colombia	Trauma fellow	fermed75@hotmail.com	
	13	Fabio R. Patarroyo	Colombia	General practitioner	fabio.patarroyo@hotmail.com	
2015	14	Tiago Machado	Brazil	Surgery resident	Tiago_machado@hotmail.com	
	15	Paulo Rosental	Brazil	Surgery resident	paulocrf@hotmail.com	
	16	David Mejia	Colombia	Trauma fellow	damt23@hotmail.com	
2016	17	Mohamed Mohamed	Sudan	General practitioner	Mohamed.O.A.Hamid@gmail.com	
	18	Maria Jose Jaramillo	Ecuador	Medical student	majosejt14@gmail.com	
	19	Joaquin Vergara	Chile	Surgery resident	jvergara84@gmail.com	
	20	Rodrigo de Oliveira	Brazil	Trauma fellow	ro_gonca@hotmail.com	
2017	21	Stephanie Palacios	Peru	Medical student	stephanie_pr@mac.com	07/01 – 07/31
	22	Debora Cardial	Brazil	Medical student	deboracardial@uol.com.br	04/10 – 04/14
	23	Carolina Peregrino	Brazil	Intensive care medicine resident	carolina_pellegrino@hotmail.com	08/01 – 08/31
	24	Marcela Vidal	Ecuador	Trauma fellow	mmarce_9956@hotmail.com	11/27 – 12/22
	25	Cecibel Cevallos	Ecuador	Trauma fellow	cecibel_ca01@hotmail.com	10/30 – 11/24
	26	Daniel Sacoto	Ecuador	Medical student	danielsacoto93@gmail.com	03/01 – 05/01

	27	Francisco Figueroa	Ecuador	Medical student	juanfigueroacordero@gmail.com	10/16 – 11/24
2018	28	Andres Dominguez	Colombia	Trauma fellow	andrewmedico@hotmail.com	04/01 – 07/13
	29	Juan Francisco Martinez	Ecuador	General practitioner	franciscomartinez93@gmail.com	02/05 – 03/16
	30	Juana Carolina Cordero	Ecuador	General practitioner	juanita_caro@hotmail.com	02/12 – 03/16
	31	Priscilla Jarrin	Ecuador	General Practitioner	pjarrin_ecuador@hotmail.com	05/01 – 06/01
	32	Ana Milena del Valle	Chile	Trauma fellow	anamilenadelvalle@gmail.com	04/04 - 04/13
	33	Vinicius Rodrigues	Brazil	Medical student	viniciusc.rodrigues@gmail.com	07/01 – 08/01
	34	Krupa Shingada	India	General practitioner	krupashingada91@gmail.com	08/08 – 09/05
	35	Alexander Salcedo	Colombia	Trauma Fellow	alexsalcedo2110@yahoo.es	09/10 – 09/21
	36	Stephanie Silva	Colombia	Medical student	s.silva10@uniandes.edu.co	11/05 - 11/30
	37	Cesar Arturo Sanchez	Mexico	Surgery Resident	c.sanchezcamarena@gmail.com	01/02 – 01/31
2019	38	Aya Elalem	Egypt	General Practitioner	ayaelalem251@hotmail.com	01/03 – 02/26
	39	Claudia Patiño	Ecuador	Medical student	claupatinorellana@gmail.com	02/11 - 03/08
	40	Pablo Vazquez	Ecuador	Medical student	pabloxavier@es.uazuay.edu.ec	02/11 - 03/08
	41	Maria del Pilar Martinez	Dominican Republic	General practitioner	mpmartinezmd@gmail.com	08/01 – 08/30
	42	Ryana do Val Roso	Brazil	Medical student	ryanaroso@hotmail.com	09/06 – 09/20
	43	David Steele	Colombia	Paramedic	david.steele@udea.edu.co	09/01 -09/10
	44	Camila Daniela Sotomayor	Chile	Surgery Resident	c_sotomayor@ug.uchile.cl	11/01 – 11/30
	45	Edison Angamarca	Ecuador	Trauma fellow	edifer-711@hotmail.com	11/18 – 11/30
	46	Juan Melendez	Costa Rica	Trauma fellow	juanj14@hotmail.com	11/18 – 12/13
	47	Shani Fisher	Israel	Trauma Nurse	sunshan2@gmail.com	01/11 – 01/25
2020	48	Dayanna Bohorquez	Colombia	General practitioner	dayanna.bohorquezcaballero@gmail.com	02/24 – 04/03
	49	Carlos Gallego	Colombia	General practitioner	carlos.gallegonavarro@gmail.com	03/03 – 03/27
	50	Adolfo Santos (CANCELLED COVID-19)	Mexico	Trauma & Orthopedic surgery fellow	facsm91@hotmail.com	03/31 – 04/30
	51	Jhonathan Velasquez (CANCELLED COVID-19)	Colombia	Emergency Medicine Resident	jvquintero83@gmail.com	04/13 – 05/09

**Table 2: Global Response to COVID-19 Webinar Series -
3105 providers participated from 64 countries, with 45 participating societies**

• United States of America	1450	• Dominican Republic	23	• France	5	• Puerto Rico	2
• Brazil	417	• Iraq	20	• Jordan	5	• Trinidad and Tobago	2
• Mexico	172	• Nicaragua	19	• Sweden	4	• Madagascar	2
• Ecuador	125	• South Africa	13	• El Salvador	4	• Denmark	1
• Colombia	100	• Costa Rica	11	• United Arab Emirates	4	• Djibouti	1
• Qatar	86	• Panama	11	• Netherlands	4	• Greece	1
• Peru	80	• Guatemala	9	• Israel	3	• Czechia	1
• Argentina	62	• Germany	9	• Poland	3	• Azerbaijan	1
• Portugal	55	• Zimbabwe	9	• Iran	3	• Switzerland	1
• Italy	46	• Uruguay	8	• Bahamas	2	• Ghana	1
• Bolivia	45	• Ireland	8	• Jamaica	2	• Belize	1
• Chile	40	• Kenya	8	• Croatia	2	• Saudi Arabia	1
• Paraguay	38	• Afghanistan	8	• Japan	2	• Philippines	1
		• India	7	• North Macedonia	2	• Isle of Man	1
		• Norway	7	• American Samoa	2	• Malawi	1
		• Albania	7	• Antigua and Barbuda	2		
		• Honduras	6	• China	2		
		• Saint Lucia	6	• New Zealand	2		
						• Grand Total	3105