

Doc Number: DIS/FOM/075 Revision No: 2 Effective Date: 28/03/2022 Revision Date: 29 Oct. 2024

## RWANDA FDA CLINICAL TRIAL REGISTER, UPDATE OF DECEMBER 2023

No	Application reference Number	Title of the clinical trial Protocol	Name of Sponsor	(PI)	Clinical Trial Site	Trial Phase	(vaccin e, drug, device)	Investigational Product (s)		Trial duratio n	FDA Approval/W ithdrawal/ Rejection Date	Certificate Reference Number	regulator	Date of Certificate Expiration	Current Implementat ion Status
1	T/201905020 01	Pragmatic multicentre FActorial randomised controlled triaL testing measures to reduCe surgical site infection in IOw and middle income couNtries [FALCON]	University of Birmingham/ United Kingdom		CHUB, CHUK, KMH, Kibogora Hospital,	Phase IV	1	2% alcoholic chlorhexidine solution/Triclosan- coated PDS or Vicryl sutures	2,700	12 Months	23/05/2019	0579/Rwanda FDA/2019	Approved	22/05/2020	Completed
2	T/202004240 02	clinical trial to evaluate the safety, reactogenicity and immunogenicity of a 2-dose Ebola vaccine regimen of Ad26.ZEBOV followed by MVA-BN-	Archimedesweg 4,		GISENYI Hospital, GIHUNDWE Hospital	Phase III	Vaccin e	Ebola vaccine regimen of Ad26.ZEBOV followed by MVA-BN- Filo	300	23 months	29/09/2020	003B/CT/RW ANDA FDA/2020, 00R1/CT/RW ANDA FDA/2022	Approved	8/27/2023	Closed out phase
3	T/202004040	Clinical validation of Novel Malaria Diagnostic Tools s for point of care testing [NOVEL MALARIA]	FIND Project/ Geneva, Switzerland	MUSABYIMA	Hopital GITWE, HC RUHANGO na d CHUB	Phase III	Medica l Devices	Malaria P.f (HRP2/pLDH) Test	1470	11 months	23/06/2020	005/CT/RWA NDA FDA/2021	Approved	6/22/2021	Completed

No	Application reference Number	Title of the clinical trial Protocol		Principal Investigator (PI)	Clinical Trial Site	Trial Phase	Type of produc t (vaccin e, drug, device)	Investigational Product	# targeted trial participants	Trial duratio n	FDA Approval/W ithdrawal/ Rejection Date	Certificate Reference Number	regulator		Current Implementat ion Status
4		time of wound closure to reduce		Dr JC Allen INGABIRE	CHUK, CHUB, RMH, KFH, Kibungo RH, Rwamagana PH, Bushenge PH, Ruhengeri RH, Kibuye RH, Butaro DHI, Kabgayi DH, Kibogora DH, Gahini DH, Ejo Heza clinic	Phase IV	Medica l Devices	Gloves	1580	12 Months	9/7/2020	002R1/CT/FD A/2021	Approved	8/11/2022	Completed
5	T/202007270 01	Clinical Study to Assess the treatment of Schizophrenia with Paliperidone Palmitate in Rwandan Helathcase settings [CASPAR]	International N.V	Dr RUTAKAYIRE Bizoza, Dr Emmanuel Musoni Rwililiza and Dr Jean Nepo Utumatwishima	Neuropsychiatric Hospital CARAES Ndera, University Teaching Hospital of Kigali, Kibuye Referral Hospital, Rwamagana Provincial Hospital	Phase IV		Paliperidone Palmitate 3PPM, 1PPM	100	71 Weeks	23/06/2021	011C/CT/RW ANDAFDA/2 021	Approved	12/16/2023	Ongoing Implementat ion
6	T/201909260 01	AFTreatment Using vitamin K antagonists, rivaroxaban or aspirin	Population Health Research Institute Hamilton Health Sciences and McMaster University, Hamilton, Canada		CHUK	Phase IV	Drugs	Vitamin K	32	60 Months	029/RNEC/ 2021, 96/RNEC/2 022	3/12/2022	Approved	3/11/2023	Completed
7	T/202000909 001	High-dose intravenous vitamin C as an adjunctive treatment for sepsis in Rwanda: A feasibility trial. [VITAMIN C]	Virginia Commonwealth University	Dr Dennis Hopiknson	СНИК	Phase II		Ascor® (Ascorbic Acid Injection, USP)	24	12 months	6/1/2021	009/CT/RWA NDAFDA/202 1		5/31/2022	Stopped by Sponsor
8		Preventing Pulmonary Complications in Surgical Patients at Risk of COVID- 19 [PROTECT-Surg]		Prof NTIRENGANY A Faustin	CHUK, CHUB, Ruhengeri RH, Kibungo RH, Kibogora DH &Kibagabaga DH	Phase III	Drugs	RESP301	300	12 Months		003A/CT/RW ANDA FDA/2020	Approved		Suspended by Sponsor

No	Application reference Number	Title of the clinical trial Protocol	Name of Sponsor	Principal Investigator (PI)	Clinical Trial Site	Trial Phase	Type of produc t (vaccin e, drug, device)	Investigational Product (s)	# targeted trial participants		FDA Approval/W ithdrawal/ Rejection Date	Certificate Reference Number	regulator		Current Implementat ion Status
9	T/202011160 01	Safety and Pharmacokinetics of the Combination Broadly Neutralizing Antibodies, 3BNC117-LS-J and 10- 1074-LS-J, in Healthy American and African Adults [ANTIBODIES]	International AIDS Vaccine Initiative (IAVI), 125 Broad Street, 9th Floor New York 10004, USA	Dr KARITA Etienne	Center for Family Health Research (CFHR)	Phase I/II	Vaccin e	Neutralizing Antibodies, 3BNC117- LS-J and 10-1074-LS-J	176	92 weeks	18/06/2021	006/CT/RWA NDA FDA/2021	Approved	3/14/2024	Closed out phase
10		Wondfo Malaria P.f (HRP2/pLDH) Test [WONDFO]	Gangzhou Wondfo Biotech Co., Ltd, China	Dr Pacifique NDISHIMYE	Remera, Nyarugunga and Busanza Health Centers	NA	Medica l Devices	Malaria Tests	1470		19/02/2021	005/CT/RWA NDA FDA/2021	Approved	18/02/2022	Completed
11	T/202012210 02	A Randomized, Double Blind, Placebo Controlled Study to Evaluate the Efficacy and Safety of Prothione™ Capsules for Mild to Moderate Coronavirus Disease 2019 (COVID-19).[PROTHIONE]	Three Aminos, LLC P.O. Box 3026 Alpharetta, GA 30023 USA	Dr. Vincent Mutabazi	Rinda Ubuzima, University of Rwanda, Campus Remera, P.O. Box 4560 Kigali, Rwanda	Phase II	Drugs	Prothione <sup>TM</sup> Capsules	200	44 Weeks	18/03/2021	007A/CT/RW ANDA FDA/2021	Approved	10/22/2022	Completed
122	T/202012110 01	A randomized, parallel-group, placebo-controlled, double-blind Phase 1/2a study in healthy HIV-uninfected adults to assess safety/tolerability and immunogenicity of 2 different prime/ boost regimens: priming with tetravalent Ad26.Mos4.HIV and boosting with tetravalent Ad26.Mos4.HIV and either Clade C gp140 plus adjuvant OR a combination of Mosaic and Clade C gp140 plus adjuvant. [HPX2003]	Janssen Vaccines & Prevention B.V.	Dr Etienne Karita	Projet San Francisco	I/II	e	Ad26.Mos4.HIV tetravalent vaccine, IM; Clade C gp140 monovalent vaccine, IM; Mosaic gp140 monovalent vaccine, IM	150	78 weeks	14/04/2021	001/CTA/RW ANDA FDA/2021, 001R1/CTA/ RWANDA FDA/2022,	Approved	10/4/2023	Completed
13		Study of TriAntiMal <sup>™</sup> in the treatment of Malaria in Rwanda [TriAntiMal <sup>™</sup> ]	-	Dr. William Rutagengwa	Nyamata District Hospital, Nyamata Health Center	Phase III	Drugs	TriAntiMa∏M	50	4 months	8/6/2021	007/CT/RWA NDA FDA/2021	Approved	7/6/2022	Completed

No	Application reference Number	Title of the clinical trial Protocol		Principal Investigator (PI)	Clinical Trial Site	Trial Phase	Type of produc t (vaccin e, drug, device)	Investigational Product (s)	# targeted trial participants		FDA Approval/W ithdrawal/ Rejection Date	Certificate Reference Number	regulator		Current Implementat ion Status
14	T/202101150 01	Evaluation of the efficacy of artemether-lumefantrine and dihydroartemisinin-piperaquine in children with uncomplicated clinical malaria in Rwanda- [TES]	PMI/Impact Malaria/ USAID	Dr Aline Uwimana, & Dr Noella Umulisa,	Rukara Health Center, Masaka Health Center	IV	Drugs	Artemether- lumefantrine and dihydroartemisinin- piperaquine tablet	528	18 months	1/6/2021	008/CT/RWA NDA FDA/2021	Approved		Ongoing Implementat ion
15	T/202011250 02	An adaptive, randomized, active- controlled, open-label, sequential cohort, multicentre study to evaluate the efficacy, safety, tolerability, and pharmacokinetics of intravenous cipargamin (KAE609) in adult and paediatric participants with severe Plasmodium falciparum malaria [KARISMA]	NOVARTIS	Dr Aline Uwimana Dr Sumanyi Jean Claude Marie Michelle Umurisa	Rwanda Military Hospital	Phase II	Drugs	Cipargamin (KAE609) IV injection, 10 mg/ml and/ or 15mg/ml vial	100	36 months	10/29/2021	012/CTAC/F DA/2021	Approved		Ongoing Implementat ion
16	T/20210317		Hamilton Health Sciences, through its Population Health Research Institute David Braley Cardiac, Vascular and Stroke Research Institute Hamilton General Hospital, CANADA	Dr.Nkeshimana Menelas	CHUK	Phase III	Drugs	Aspirin cardio, Xarelto 2.5 mg film-coated tablets and Colchicine 0.5mg tablets	250	6 months	12/8/2021	013/CTAC/F DA/2021	Approved	12/8/2022	Stopped by Sponsor
17	T/20211001	Double-Blind, Placebo-Controlled, Phase III Clinical Study to Evaluate	Beijing Wantai Biological Pharmacy Enterprise Co., Ltd, China	Dr. Utumatwishima Jean Nepo Abdallah	Rwamagana Provincial Hospital	Phase III	Vaccin e	Influenza Virus Vector COVID-19 Vaccine for Intranasal Spray (DelNSI-2019-nCoV- RBD-OPT1	32,000	20 months	12/30/2021	NA	Withdraw n	NA	Withdrawn

N	o re	pplication eference (umber	Title of the clinical trial Protocol		Principal Investigator (PI)	Clinical Trial Site	Trial Phase	Type of produc t (vaccin e, drug, device)	Investigational Product	# targeted trial participants	Trial duratio n	FDA Approval/W ithdrawal/ Rejection Date	Certificate Reference Number	Current regulator y Status	Date of Certificate Expiration	Current Implementat ion Status
1	-	7/202110310 1		Oxford.	Prof Leon Mutesa, MD, PhD	UR	Phase III		Artemether- Lumefantrine and Amodiaquine and /Artemether –Lumefantrine and Placebo	216	20 months	2/8/2022	014/CTAC/F DA/2022	Approved		Ongoing Implementat ion
1	C	T/2021090 001	Placebo-Controlled Trial to Evaluate the Safety, Immunogenicity, and Efficacy of INO-4800, a Prophylactic	harmaceuticals, Inc.660 W. Germantown Pike, Suite 110 Plymouth	Dr MUTABAZI Vincent & Dr. Karita Etienne	RINDA UBUZIMA, CFHR	Phase III	Vaccin e	INO-4800 COVID 19 Vaccine	7116	3 years	4/5/2022	NA	Withdraw n	NA	Withdrawn
2		//20221401	Safety and efficacy of cassava leaf extract lozenges to reduce the SARS- CoV-2 viral load in the oral (and nasal) cavities of mild/ asymptomatic Covid-19 positive individuals. A Proof-of-Concept Study in Rwanda [ CASSAVA LEAF]	USA	Dr. Menelas NKESHIMAN A Centre, CHUK	CHUK, CHUB, GISENYI DH	NA	Other	CASSAVA LEAF	49	12 months	4/21/2022	015/CTAC/F DA/2022	Approved	4/21/2023	Completed
2	D	PIS/PSM/C 1/202203070 1	Safety and Immunogenicity of	Biomedical	Dr. Vincent Mutabazi, MD, MSc.	SAKE /RUKOMO Health Center, Ngoma District and Rinda Ubuzima Head Quarter, Gasabo District.	Phase III	Vaccin e	Novavax NVX- CoV2373 vaccine and Janssen Ad26COVS1 vaccine	1950	30 Months	6/1/2022	016/CTAC/F DA/2022	Approved		Ongoing Implementat ion

N	Application o reference Number	Title of the clinical trial Protocol	Name of Sponsor	Principal Investigator (PI)	Clinical Trial Site	Trial Phase	Type of produc t (vaccin e, drug, device)	Investigational Product (s)	# targeted trial participants	Trial duratio n	FDA Approval/W ithdrawal/ Rejection Date	Reference	regulator		Current Implementat ion Status
2	2 DISP/SM/C T/20221401	Effect of Honey versus conventional dressing in the Management of open fractures wounds [The HORSE Trial].	Dr. Jean de la Croix ALLEN INGABIRE, Student at Texila American University	Croix ALLEN INGABIRE.	Centre Hospitalier Universitaire de Kigali (CHUK), Nyarugenge District	NA	etc	Buranga Natural Honey	98	24 months	6/17/2022	017/CTAC/F DA/2022	Approved	6/17/2023	Closed out phase
2		A Phase 1 Study to Evaluate the Safety and Immunogenicity of eOD- GT8 60mer mRNA Vaccine (mRNA- 1644) in HIV-1 Uninfected Adults in Good General Health [IAVI G003]	International AIDS Vaccine Initiative (IAVI). 125 Broad Street, 9th Floor, New York 10004 USA	NYOMBAYIR	Center for Family Health Research, Rwanda	Phase I	e	eOD-GT8 60mer mRNA Vaccine (mRNA- 1644),0.6mL /2-mL glass vials	18	12 months	6/17/2022	018/CTAC/F DA/2022	Approved	6/17/2023	Closed out phase
2	4 CTA-6411- 2022	VAC31518COV2004 An Open-label, Phase 2 Study to Evaluate the Safety, Reactogenicity, and Immunogenicity of Ad26.COV2.S in Healthy Pregnant Participants [ HORIZON 1]	Janssen Vaccines & Prevention B.V. Archimedesweg 4 Leiden 2333 CN, Netherlands	Karita	Center for Family Health Research, Rwanda	Phase II		Ad26.COV2.S (also known as Ad26COVS1), Monovalent vaccine	400	21 months	8/5/2022	NA	Withdraw n	NA	Withdrawn
2	5 DIS/PSM/C T/202012110 01	Contrast-Enhanced Ultrasound in the Evaluation of Abdominal Solid Organ Injuries in Trauma Patients [LUMASON]	David P. Mooney, MD, MPH 300 Longwood Avenue Boston, USA	Dr. Vincent Ndebwanimana	CHUK	Phase I/II	l Devices	Sulfur hexafluoride lipid type A microspheres, injectable suspension, 25 mg of lipid-type A lyophilized powder	22	10 months	7/17/2022	NA	Withdraw n	NA	Withdrawn
2		The impact of selenium Supplementation in the treatment of COVID 19 positive patients in Rwanda [SELENIUM]	NCST Rwanda & Selenium Education and Research Center SA	Dr. Kamwesiga Julius	King Faysal Hospital	Phase III	Drugs	Selenium supplement tablets	100	38 weeks	9/28/2022	019/CTAC/F DA/2022	Approved	9/27/2023	Suspended by Authority

N	Application reference Number	Title of the clinical trial Protocol		Principal Investigator (PI)	Clinical Trial Site	Trial Phase	Type of produc t (vaccin e, drug, device)	Investigational Product (s)	# targeted trial participants	Trial duratio n	FDA Approval/W ithdrawal/ Rejection Date	Certificate Reference Number	regulator		Current Implementat ion Status
27	T/202206002 001	[SPIKER/RW/CT/CTG-AI Version 02] A Clinical Investigation Evaluating Efficacy of an Intelligent Cardiotocography with Real-Time Alerts for an Improved Labor and delivery	Spiker Ltd. 2-5 Inage-ku, Chiba, Japan	Dr. Kizito Nkurikiyeyezu, Dr. Vincent Dusingizimana	Hopital La Croix du Sud	NA	Medica l Devices	SPIKER AI-CTG (EDAN CTG F9)	200	12 months	10/11/2022	020/CTAC/F DA/2022	Approved	10/10/2023	Suspended by Authority
28	CT/CTA- 16499-2022	A phase I/II partially randomized, active-controlled (BNT162b2/COMIRNATY®), observer-blind, dose selection, safety, and immunogenicity study of GLB-COV2-043, an mRNA vaccine candidate against SARS-CoV-2, administered as a single-vaccination booster to previously vaccinated adults. [GLB-003]	E-mail address: akhan@greenlightb io.com Phone number (with country	Dr Etienne Karita, Prof. Leon Mutesa Eric Remera Augustin Murindabigwi Igiraneza Deborah Sibomana Hassan	Rwanda Teaching Hospital in Butare, Southern Province. The Center for Family Health Research in Kigali.	Phase I/II	е	GLB-COV2-043 DS , IM 0.5mL per vial); 0.48mg/mL (Test product) & BNT162b2 (COMIRNATY®), mRNA vaccine against the spike (S) protein of SARS-CoV-2, by Pfizer/ BioNTech (Comparator)	48	24 months	1/26/2023	021/CTAC/F DA/2023	Approved	1/25/2024	Stopped by Sponsor
29	CT/CTA- 15192-2023	All-oral shorter treatment regimen for multidrug- and rifampicin-resistant tuberculosis (MDR/RR-TB): Evaluating its effectiveness, safety and impact on the quality of life of patients in Rwanda" [STAKE]	Rwanda Biomedical Centre & Institute of Tropical Medicines/Belgium	Yves Habimana- Mucyo, Dr Patrick MIGAMBI Jean Claude SEMUTO NGABONZIZA ,Augustin DUSHIME	Two MDR-TB treatment centers, one within Kigali (Kibagabaga hospital) and another in the southern porovince (Kabutare hospital)	Phase II	Drugs	Amikacin 500 mg/2ml solution for injection	20	21 months	2/8/2023	022/CTAC/F DA/2023	Approved		Ongoing Implementat ion
30	DIS/PVSM/ CT/CTA- 17687-2022	Clinical Validation of Novel Malaria Diagnostic Tools for point-of-Care Testing, Innovation Platform Round 2	FIND, the global alliance for diagnostics	Jean Pierre Musabyimana	Byimana HC &Rwaniro HC, catchment area of CHUB	Phase III	1	Index tests: Truenat® Malaria Pv/Pf test, Truenat® Malaria Pv/Pf Hi-Sens, Humasis has- Malaria p.f./Pan Test, Optical imaging of hemozoin	509	11 months		023/CTAC/F DA/2023	Approved	2/14/2024	Closed out phase

N	Application reference Number	Title of the clinical trial Protocol		Principal Investigator (PI)	Clinical Trial Site	Trial Phase		Investigational Product			FDA Approval/W ithdrawal/ Rejection Date	Certificate Reference Number	Current regulator y Status	Date of Certificate Expiration	Current Implementat ion Status
3:	DIS/PVSM/ CT/CTA- 17687-2022			Dr. Janvier Hitayezu	University Teaching Hospital of Kigali (CHUK). Rwanda	NA	Medica l Devices	IMPALA patient care monitoring systems	15	6 months	4/27/2023	024/CTAC/19 71- 2023/FDA/18 69/2023	Approved	10/26/2023	Stopped by Sponsor
3:	DIS/PVSM/ CT/CTA- 7482-2022	Cardiovascular Risk Control assessment among hypertensive patient attending Nyamyumba Health Center in a rural District of	Mario, Prof.Dr.med, MD	Dr. Bienvenu Muvunyi	Health Centre Nyamyumba, Sector Mata, District Nyaruguru	Phase IV		20mg Olmesartanum medoxomilum / 5mg Amlodipinum/ 12.5mg Hydroclorothiazidum 40mg Olmesartanum medoxomilum / 10mg Amlodipinum/ 12.5mg Hydroclorothiazidum	384	12 months	11/6/2023	025/CTA/748 2-2023 /FDA/4670 /2023	Approved	11/5/2024	Ongoing Implementat ion
3:	DIS/PVSM/ CT/CTA- 6938-2023	Label, Dose Escalation, Phase I/Multicenter, Observer -Blinded, Randomized, Placebo-Controlled,	520 Yeongdong- daero, Gangnam-	Prof. Leon MUTESA & Prof.Dong – Gun Lee	Centre Hospitalier Universitaire de Butare (CHUB), Rwanda	Phase I/II	e	STP2250 IM Injection solution 0.05 g/L for 25 µg/human or 0.1 g/L for 50 µg/human (Dose escalation).	120	18 months	11/23/2023	028/CTAC/16 938- 2023/FDA/52 60/2023	Approved	11/22/2023	Initiation Phase
34		Africa Through High flow versus standard flow oxygen Evaluation.[BREATHE]		Jeanine Condo MD,PhD and Elisabeth Riviello, MD, MPH	Centre Hospitalier Universitaire de Kigali(CHUK) and Centre Hospitalier Universitaire de Butare (CHUB). Rwanda	Phase III	1	High Flow Oxygen (HFO) using Airvo2 device for oxygen delivery	420	15 months	11/6/2023	026/CTA/000 5/FDA/4672 /2023	Approved	11/5/2023	Initiation Phase

Dr. Emile BIENVENU Director General