

## Partec CyFlow<sup>®</sup> for Accurate and Affordable HIV Monitoring by CD4 Counting

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### **Simplified volumetric flow cytometry allows feasible and accurate determination of CD4 T lymphocytes in immunodeficient patients worldwide**

- 1 Institute of Transfusion Medicine, University Hospital Münster, Germany
- 2 Institute of Radiation Biology, University Hospital Münster, Germany
- 3 Department of Internal Medicine/Haematology, Helios-Kliniken Berlin, Robert-Rössle Klinik Berlin, Germany
- 4 Institute of Laboratory and Transfusion Medicine, University Hospital Bad Oeynhausen, Germany
- 5 Institute of Immunology and Transfusion Medicine, University Hospital Lübeck, Germany
- 6 Health Research Program, University and University Hospital of Douala, Cameroon
- 7 University of Ougadougou, UFR/SVT, Burkina Faso
- 8 Lux Development, Treatment and Research AIDS Center (TRAC) Kigali, Rwanda
- 9 Institut Pasteur du Cambodge, Phnom Penh, Cambodia
- 10 Department of Internal Medicine, University Hospital Münster, Germany

Antiviral Therapy 9:395-405 (2004), ©2004 International Medical Press

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### **The PARTEC CyFlow counter for CD4+ T-cell counting produces high quality results and is robust when evaluated under routine field conditions in Malawi**

- 1 Médecins sans Frontières, Brussels, Belgium
- 2 Médecins sans Frontières, Paris, France;
- 3 Ministry of Health and Population, Lilongwe, Malawi
- 4 Médecins Sans Frontières-Thyolo, Luxembourg
- 5 Médecins Sans Frontières-Chiradzulo, Paris, France;
- 6 Médecins sans Frontières-OCB, Brussels, Belgium

Scientific Oral Presentation - Abstract No. TuOrB1149 at the XV. International AIDS Conference in Bangkok, July 2004

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**Evaluation of a new single-platform volumetric flow cytometer for enumeration of absolute CD4 T-lymphocyte counts in HIV-1 infected Thai patients**

- 1 Center of Excellence for Flow Cytometry, Faculty of Medicine, Siriraj Hospital, Bangkok, Thailand
- 2 Thailand MOPH - U.S. CDC Collaboration, Nonthaburi, Thailand
- 3 Bureau of AIDS, TB and STIs, Ministry of Public Health, Nonthaburi, Thailand
- 4 Division of AIDS, STD, and TB Laboratory Research, CDC, Atlanta, United States
- 5 Thailand MOPH - U.S. CDC Collaboration, Nonthaburi, Thailand, and Global AIDS Program, CDC, Atlanta, United States

Scientific Presentation - Abstract No. MoPeB3176 at the XV. International AIDS Conference in Bangkok, July 2004

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Haynes W. Sheppard<sup>3</sup>, Steven Z. Josefowicz<sup>1</sup>, Kfir Elad<sup>2</sup>, Eileen Liu<sup>3</sup>, Okumu F. K'Aluoch<sup>3</sup>, Kimvan Tran<sup>4</sup>, Kamala Tyagarajan<sup>4</sup>, Leonard Buchner<sup>4</sup>, Martin Bigos<sup>1</sup>, C. Lorrie Epling<sup>2</sup>, Elizabeth Sinclair<sup>2,5</sup>, Barry Bredt<sup>2,5</sup>

**Monitoring ART in resource poor settings– two methods for low-cost CD4 T-cell enumeration**

- 1 Gladstone Institute of Virology and Immunology
- 2 UCSF, Department of Medicine
- 3 California Department of Health Services
- 4 Guava Technologies, Inc.; 5UCSF/SFGH General Clinical Research Ctr.

Scientific Presentation at the Third International Conference on AIDS and other Infectious Diseases in Nanning, GuangXi, China, December 2004

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T.N. Dieye<sup>1</sup>, C. Vereecken<sup>2</sup>, P.A. Diaw<sup>1</sup>, P. Ondoa<sup>2</sup>, A. Guèye<sup>1</sup>, S. Mboup<sup>1</sup>, L. Kestens<sup>2</sup>

**Evaluation of an Affordable Instrument for Absolute CD4 Counting in Resource-Poor Settings against two Reference Clinical Flow Cytometers**

- 1 Laboratory of Bacteriology-Virology, CHU-Le Dantec, Dakar, Senegal
- 2 Laboratory of Immunology, Department of Microbiology, Institute of Tropical Medicine, Antwerp, Belgium

Scientific Presentation - Abstract No. 112 at the 2nd IAS Conference on HIV Pathogenesis and Treatment in Paris, July 2003

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J Servais<sup>1</sup>, E Rusanganwa<sup>1</sup>, S Tuyizere<sup>1</sup>, N Makombe<sup>1</sup>, G Nyirabatitonda<sup>1</sup>, C Sergi<sup>2</sup>, A Nyirakanyana<sup>3</sup>, O Courteille<sup>4</sup>, V Arendt<sup>4</sup>, J Rusine<sup>1</sup>

**Comparison of two flow cytometry methods for the determination of CD4 counts in Rwanda: RWA/021 TRAC/NRL project, Lux Development**

- 1 National Reference Laboratory and RWA/021 project, Lux Development, Kigali, Rwanda
- 2 Centre de Santé de Kicukiro, Kigali, Rwanda
- 3 Centre de Santé de Gitega, Kigali, Rwanda
- 4 Centre Hospitalier, Luxembourg, Luxembourg

Scientific Presentation - Abstract No. MoPeB3172 at the XV. International AIDS Conference in Bangkok, July 2004

S Teav<sup>1</sup>, L Lynen<sup>2</sup>, C Vereecken<sup>2</sup>, P De Munter<sup>2</sup>, C Srey<sup>3</sup>, L Kestens<sup>2</sup>

**Alternative CD4 counting using Cyflow in Cambodia: precision and comparison with Facscount**

- 1 Sihanouk Hospital Center of HOPE, Phnom Penh, Cambodia
- 2 Institute of Tropical Medicine, Antwerp, Belgium
- 3 Institut Pasteur du Cambodge, Phnom Penh, Cambodia

Scientific Presentation - Abstract No. MoPeB3089 at the XV. International AIDS Conference in Bangkok, July 2004

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**Rapid and economical single-platform count of peripheral blood CD4 T cell by flow cytometry: positive comparison with conventional dual platform method**

- 1 University of Modena, Modena, Italy
- 2 Azienda Policlinico, Modena, Italy

Scientific Presentation - Abstract No. MoPeB3104 at the XV. International AIDS Conference in Bangkok, July 2004

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**CD4 lymphocyte counts with Cyflow in Cambodia: stability of sample results over time**

- 1 Sihanouk Hospital Center of HOPE, Phnom Penh, Cambodia
- 2 Institute of Tropical Medicine, Antwerp, Belgium

Scientific Presentation - Abstract No. MoPeB3110 at the XV. International AIDS Conference in Bangkok, July 2004

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**Enumeration Of CD4 cells In HIV positive patients in a resource poor setting - Jos, Nigeria**

- 1 APIN Poject, Jos University Teaching Hospital/ University of Jos, Jos, Nigeria
- 2 APIN, Harvard School of Public Health, Boston, MA, United States

Scientific Presentation - Abstract No. MoPeB3104 at the XV. International AIDS Conference in Bangkok, July 2004

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**Estimated CD4% by cyflow comparable to estimated CD4% by facscount**

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- 2 Institute of Tropical Medicine, Antwerp, Belgium
- 3 Institut Pasteur du Cambodge, Phnom Penh, Cambodia

Scientific Presentation - Abstract No. MoPeB3104 at the XV. International AIDS Conference in Bangkok, July 2004

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**A novel true volumetric method for the determination of residual leucocytes in blood components**

- 1 Institute for Transfusion Medicine/Department for Transplantation Immunology, University Hospital Münster, Germany
- 2 Institute for Radiation Biology, University Hospital Münster, Germany

Vox Sanguinis (2002) 82, 198–206

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**A New No-Lyse, No-Wash Flow-Cytometric Method for the Determination of CD4 T Cells in Blood Samples**

- 1 Institut für Strahlenbiologie, Westfälische Wilhelms-Universität Münster
- 2 Institut für Transfusionsmedizin, Universitätsklinikum Münster
- 3 Partec GmbH
- 4 Medizinische Klinik und Poliklinik D, Universitätsklinikum Münster, Germany

Transfusion Medicine and Hemotherapy 30:8–13, 2003, S. Karger GmbH, Freiburg

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**Individual Patient-Dependent Influence of Erythrocyte Lysing Procedures on Flow-Cytometric Analysis of Leukocyte Subpopulations**

- 1 Institut für Strahlenbiologie, Westfälische Wilhelms-Universität,
- 2 Institut für Transfusionsmedizin, Universitätsklinikum, Münster, Germany
- 3 Université de Douala, Faculté des Sciences, Douala, Cameroun
- 4 Université de Ouagadougou, UFR/ SVT, Ouagadougou, Burkina Faso
- 5 Partec GmbH, Münster,
- 6 Poliklinik für Zahnerhaltung, Universitätsklinikum, Münster, Germany

Transfusion Medicine and Hemotherapy 30:165-170, 2003, S. Karger GmbH, Freiburg

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Godwin E. Imade<sup>1</sup>, Bitrus Badung<sup>1</sup>, Sunday Pam<sup>1</sup>, Oche Agbaji<sup>1</sup>, Daniel Egah<sup>1</sup>, Atiene S. Sagay<sup>2</sup>, Jean-Louis Sankale<sup>2</sup>, Saidi Kapiga<sup>2</sup>, John Idoko<sup>1</sup>, Phyllis Kanki<sup>2</sup>

**Comparison of a New, Affordable Flow Cytometric Method and the Manual Magnetic Bead Technique for CD4 T-Lymphocyte Counting in a Northern Nigerian Setting**

- 1 AIDS Prevention Initiative Nigeria, Jos University Teaching Hospital, Jos, Nigeria
- 2 Harvard School of Public Health, Boston, Massachusetts, United States

CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY, Jan. 2005, p. 224–227, 2005, American Society for Microbiology

Wolfgang Göhde<sup>1</sup>, Burkhard Greve<sup>1</sup>

### **A New Protocol to Follow-up Immune Impairment in HIV/AIDS-Children**

1 Department of Radiobiology, University Hospital Münster, Germany

Scientific Presentation - Abstract No. MoPeLB151C02 at the 3rd IAS Conference on HIV Pathogenesis and Treatment in Rio de Janeiro, July 2005

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Tandakha Ndiaye Dieye, PharmD, PhD<sup>1</sup>, Chris Vereecken<sup>2</sup>, Abdoul Aziz Diallo, MS<sup>1</sup>, Pascale Ondo, MD, PhD<sup>2</sup>, Papa Alassane Diaw, PharmD<sup>1</sup>, Makhtar Camara, PharmD<sup>1</sup>, Farba Karam, PharmD<sup>1</sup>, Souleymane Mboup, PharmD, PhD<sup>1</sup>, and Luc Kestens, PhD<sup>2</sup>

### **Absolute CD4 T-Cell Counting in Resource-Poor Settings: Direct Volumetric Measurements Versus Bead-Based Clinical Flow Cytometry Instruments**

- 1 Immunology Unit, Laboratory of Bacteriology-Virology, Cheikh Anta Diop University, Dakar, Senegal
- 2 Laboratory of Immunology, Department of Microbiology, Institute of Tropical Medicine, Antwerp, Belgium

Journal of Acquired Immune Deficiency Syndromes, Volume 39, Number 1, May 1 2005, Lippincott Williams & Wilkins, Inc.

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Burkhard Greve<sup>1</sup>, Roland Göhde<sup>2</sup>

### **New Perspectives for Monitoring HIV-infected Patients in Developing Countries by Affordable CD4+ T-cell Counts**

- 1 Institute of Radiobiology, University of Münster, Germany
- 2 HIV/AIDS Project Coordinator, Partec GmbH, CyTecs GmbH

Business Briefing: Long-Term Healthcare Strategies 2003

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Burkhard Greve<sup>1</sup>

### **Precise Cell Numeration and CD4/CD8 Counting in HIV/AIDS**

- 1 Institute of Radiobiology, University of Münster, Germany

Business Briefing: Long-Term Healthcare Strategies 2004

Wolfgang Göhde<sup>1</sup>, Uwe Cassens<sup>2</sup>, Roland Göhde<sup>3</sup>, Burkhard Greve<sup>1</sup>

**New Perspectives for Monitoring HIV-infected Patients in Developing Countries by Affordable CD4+ T-cell Counts**

- 1 Institute of Radiobiology, University of Münster, Germany
- 2 Institute of Transfusion Medicine, University Hospital Münster, Germany
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Business Briefing: Future Drug Discovery 2004

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Burkhard Greve<sup>1</sup>, Wolfgang Göhde<sup>1</sup>, Uwe Cassens<sup>2</sup>, Roland Göhde<sup>3</sup>

**New Protocols to Follow Up HIV-induced Immune Impairment in Paediatric Samples**

- 1 Institute of Radiobiology, University of Münster, Germany
- 2 Institute of Transfusion Medicine, University Hospital Münster, Germany
- 3 HIV/AIDS Project Coordinator, Partec GmbH, CyTecs GmbH

Business Briefing: Future Drug Discovery 2004

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Burkhard Greve<sup>1</sup>

**Erythrocyte lysing: A necessity in flow cytometric leukocyte subset enumeration?**

- 1 Institute of Radiobiology, University of Münster, Germany

Modern Aspects in Immunobiology 3 (2), 2003, 49

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M. Fryland<sup>1</sup>, P. Chaillot<sup>2</sup>, R. Zachariah<sup>3</sup>, A. Barnaba<sup>4</sup>, L. Bonte<sup>5</sup>, R. Andereassen<sup>1</sup>, S. Charrondière<sup>6</sup>, R. Teck<sup>1</sup>, O. Didakus<sup>6</sup>

**The Partec CyFlow Counter® could provide an option for CD4+ T-cell monitoring in the context of scaling-up antiretroviral treatment at the district level in Malawi**

- 1 Médecines sans Frontières–Luxembourg, Thyolo District, Malawi
- 2 Médecines sans Frontières, Medical Department, Brussels Operational Center, Belgium
- 3 Médecines sans Frontières, Operational Research (HIV – TB), Medical Department, Brussels Operational Center, Belgium
- 4 Reference Laboratory Unit, Ministry of Health and Population, Lilongwe, Malawi
- 5 Médecines sans Frontières–France, Medical Department, Paris, France
- 6 Médecines sans Frontières–France, Medical Department, Paris, France

Transactions of the Royal Society of Tropical Medicine and Hygiene (2006)

Heiko Karcher<sup>1</sup>, Dankmar Bohning<sup>2</sup>, Robert Downing<sup>3</sup>, Silver Mashate<sup>4</sup>, Gundel Harms<sup>1,5</sup>

**The Partec CyFlow Counter® could provide an option for CD4+ T-cell monitoring in the context of scaling-up antiretroviral treatment at the district level in Malawi**

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- 2 Division of International Health, Institute of Social Medicine, Epidemiology and Health Economics, Charité-University Medicine Berlin, Germany
- 3 Centers of Disease Control and Prevention (CDC), Uganda Virus Research Institute, Entebbe, Uganda
- 4 GTZ PMTCT Project, Fort Portal, Uganda
- 5 Institute of Tropical Medicine, Charité-University Medicine Berlin, Germany

Clinical Cytometry, Volume 70B, Issue 3, Pages 163-169 (2006)

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**Evaluation of a new single-platform volumetric flow cytometer for enumeration of absolute CD4 T-lymphocyte counts in HIV-1 infected Thai patients**

- 1 Center of Excellence for Flow Cytometry, Faculty of Medicine, Siriraj Hospital, Bangkok, Thailand
- 2 Thailand MOPH - U.S. CDC Collaboration, Nonthaburi, Thailand
- 3 Bureau of AIDS, TB and STIs, Ministry of Public Health, Nonthaburi, Thailand
- 4 Division of AIDS, STD, and TB Laboratory Research, CDC, Atlanta, United States
- 5 Thailand MOPH - U.S. CDC Collaboration, Nonthaburi, Thailand, and Global AIDS Program, CDC, Atlanta, United States

Clinical and Diagnostic Laboratory Immunology, December 2005, p. 1416-1424, Vol. 12, No. 12

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**Affordable flow cytometry for enumeration of absolute CD4+T-lymphocytes to identify subtype C HIV-1 infected adults requiring antiretroviral therapy (ART) and monitoring response to ART in a resource-limited setting**

- 1 Dept. of Immunology, College of Health Sciences, University of Zimbabwe, Harare
- 2 Chitungwiza Central Hospital, Chitungwize, Zimbabwe
- 3 Department of Obstetrics and Gynaecology, College of Health Sciences, University of Zimbabwe, Harare
- 4 Department of Medicine, College of Health Sciences, University of Zimbabwe, Harare
- 5 Zimbabwe AIDS Prevention Project, Harare, Zimbabwe
- 6 Department of Community Medicine, College of Health Sciences, University of Zimbabwe, Harare
- 7 Division of Infectious Diseases and AIDS Research, Stanford University Medical School, Stanford, California, USA

Journal of Translational Medicine 2006, 4:33

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**Evaluation of two volumetric flow cytometers for the quantitation of CD4+ T cells in Thai HIV-1-infected patients**

- 1 Faculty of Medicine Siriraj Hospital, Mahidol University, Office for Research and Development, Bangkok, Thailand
- 2 Thailand Ministry of Public Health-U.S. CDC Collaboration, Nonthaburi, Thailand
- 3 Global AIDS Program, Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Presentation - Abstract No. TUAB0205 at the XVI International AIDS Conference, Toronto, July 2006

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**Evaluation of the Partec CyFlow SL\_3 assay against the BD FACSCalibur assay system in the determination of CD4 absolute counts and percentages in the immune monitoring of HIV infected patients in Zimbabwe**

- 1 National Microbiology Reference Laboratory (NMRL), Harare, Zimbabwe
- 2 African Institute of Biomedical Science and Technology (AiBST), Harare, Zimbabwe
- 3 Connaught Clinic, Swiss-Zimbabwe AIDS Care Foundation, Harare, Zimbabwe
- 4 Centre for Disease Control (CDC) Zimbabwe

Clinical and Vaccine Immunology (2007)

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B. Greve<sup>1</sup>, U. Cassens<sup>2,3</sup>, C. Baumann<sup>2,3</sup>, W. Sibrowski<sup>2,3</sup>, G. Kuling<sup>4</sup>, F. Szabados<sup>5</sup>, P. Schlenke<sup>6</sup>, D. Reichelt<sup>7</sup>, W. Gebauer<sup>8</sup> and W. Göhde<sup>1</sup>

**Determination of CD4 lymphocyte percentages using a new simplified and affordable no lyse flow cytometric protocol: a pilot study**

- 1 Department of Radiobiology, University Hospital Münster, Germany
- 2 Department of Transfusion Medicine, University Hospital Münster, Germany
- 3 Institute of Transfusion Medicine, Laboratory Medicine and Medical Microbiology, Klinikum Dortmund gGmbH, Dortmund, Germany
- 4 Department of Internal Medicine/Haematology, Helios- Kliniken Berlin, Robert-Rössle-Klinik Berlin, Germany
- 5 Institute of Laboratory and Transfusion Medicine, University Hospital Bochum, Bad Oeynhausen, Germany
- 6 Institute of Immunology and Transfusion Medicine, University Hospital Schleswig-Holstein Campus Lübeck, Germany
- 7 Department of Internal Medicine, University Hospital Münster, Germany
- 8 Red Cross Blood Transfusion Service, Institute Oldenburg, Oldenburg, Germany

J Lab Med 2008;32(3):182-189

B. Greve<sup>1</sup>, R. Göhde<sup>2</sup>, U. Cassens<sup>3</sup>

### **New Protocols to Follow-up HIV-Induced Immune Impairment in Pediatric Samples**

- 1 Department of Radiobiology, University Hospital Münster, Germany
- 2 CyTecs, Görlitz Germany
- 3 Department of Transfusion Medicine, University Hospital Münster, Germany

Scientific Poster Presentation, MASIR Conference, Courmayeur, Italy (2005)

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S. Meloni<sup>1</sup>, E. Ekong<sup>2</sup>, D. Onwujekwe<sup>3</sup>, C. Okany<sup>4</sup>, I. Adewole<sup>5</sup>, C. Idehen<sup>6</sup>, W. Gaschau<sup>7</sup>, J. Idoko<sup>8</sup>, R. Murphy<sup>9</sup>, P. Kanki<sup>1</sup>

### **Evaluation of ART in the Harvard PEPFAR Treatment Program in Nigeria**

- 1 Harvard PEPFAR, Harvard School of Public Health, Boston, MA, USA
- 2 APIN Plus/Harvard PEPFAR, Lagos, Nigeria
- 3 Nigerian Institute of Medical Research, Lagos, Nigeria
- 4 Lagos University Teaching Hospital, Lagos, Nigeria
- 5 University College Hospital, Ibadan, Nigeria
- 6 68 Military Hospital, Lagos, Nigeria
- 7 University Maiduguri Teaching Hospital, Maiduguri, Nigeria
- 8 Jos University Teaching Hospital, Jos, Nigeria
- 9 Northwestern University, Chicago, IL, USA

Scientific Poster Presentation, Abstract 544, 14th Conference on Retroviruses and Opportunistic Infections; Los Angeles, CA, USA (2007)

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E. Lafia<sup>1</sup>, G. H. Dagba<sup>1</sup>, E. Hounssounou<sup>1</sup>, B. Lafia<sup>1</sup>, S. Anagonou<sup>2</sup>, I. Zohoun<sup>3</sup>

### **Evaluation du Cytometre en Flux CyFlow Counter dans un Contexte de Pays aux Ressources Limitées – Cas de la République du Bénin**

- 1 Laboratoire de référence du Programme National de Lutte contre le SIDA
- 2 Faculté des Sciences de la Santé de l'Université d'Abomey-Calavi et laboratoire de Microbiologie du Centre National Hospitalier et Universitaire de Cotonou
- 3 Faculté des Sciences de la Santé de l'Université d'Abomey-Calavi et service des malades du sang du Centre National Hospitalier et Universitaire de Cotonou.

Médecine d'Afrique Noire 2008 – 55(7)

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T. Maruta<sup>1</sup>, Madisa Mine<sup>1</sup>, Dzinza<sup>2</sup>, F. Nguru<sup>2</sup>

### **Evaluation of the Partec CyFlow Cytometer of Bamalete Lutheran Hospital against the BD FACSCalibur System at Botswana Harvard Reference Laboratory**

- 1 Botswana Harvard HIV Reference Laboratory Gaborone
- 2 Bamalete Lutheran Hospital Ramotswa

in print

R. Adams, R. Glashoff, C. de Beer, M. Esser<sup>1</sup>

**Comparative flow cytometric study of CD4 lymphocyte subsets on routine HIV Roll-out clinical samples**

1 Stellenbosch University

in print

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L. L. Baum<sup>1</sup>, S. Crowe<sup>2</sup>, A. L. Landay<sup>1</sup>

**Advances in CD4 cell enumeration in resource-poor countries**

- 1 Rush University Medical Center, Chicago, Illinois, USA
- 2 Macfarlane Burnet Institute for Medical Research and Public Health, Melbourne, Victoria, Australia

Current Opinion in HIV and AIDS 2007, 2:234–240

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M. Bergeron<sup>1</sup>, X. Yang<sup>1</sup>, C. Chabot<sup>1</sup>, T. Ding<sup>1</sup>

**Advances in CD4 cell enumeration in resource-poor countries**

- 1 National HIV Immunology Laboratory, Public Health Agency of Canada, Ottawa

Abstract No. 279, CTYO 2010 - XXV ISAC Congress, Seattle, 2010

Partec CyFlow<sup>®</sup> Counter, CyFlow<sup>®</sup> SL\_3, and CyFlow<sup>®</sup> SL are IVD products.

Partec CD4 easy count kit, CD3 easy count kit, CD8 easy count kit, and CD4% easy count kit are for *in vitro* diagnostic use with Partec IVD Flow Cytometers.

