IMMUNODEFICIENCY CLINIC

RESIDENTS'

TRAINING PACKAGE

Please use the drug distribution summary to explain different categories of status/coverage found in the following tables.

DRUG DISTRIBUTION SUMMARY

Ontario Drug Benefit Program (ODB)

Ontario residents with a current and active drug card may have non-investigational medications covered via one of the following categories:

- a) ODB Formulary: Agents listed in the ODB formulary may be prescribed by any physician, without specifying the indication.
- b) <u>Facilitated Access</u>: ODB patients may receive these agents free of charge as long as the prescribing physician is registered with the Ministry of Health as a participating physician for ODB/AIDS treatment drugs. The physician's CPSO registration number should be included on each prescription for purposes of verification. For further information, call the Drug Programs Branch at: (416) 327-8109.
- c) <u>Limited Use (LU)</u>: LU products are listed in the formulary with specific clinical criteria for use. An LU prescription form must be completed with the appropriate code.
- d) Individual Clinical Review (Section 8): Application for coverage of drugs not falling into any of the previous categories is done on an individual patient basis. Pertinent patient information (including concise clinical description and therapeutic plan) is usually required, and submissions may be faxed to the Director of the Drug Programs Branch at (416) 327-7256.

Trillium Drug Program

Ontario residents who do not meet criteria for ODB may be eligible to receive drug reimbursement via the Trillium Drug Program, after paying a certain amount of their family income for prescription medications. This program pays for the same drugs and products that are covered under the ODB program. Similar procedures apply for reimbursement of facilitated access, NFB, or unlisted (section 8) agents. To obtain application kits or for further information, call 1-800-575-5386 or (416) 326-1558 (Toronto).

Ontario Drug Distribution Program (ODDP)

Patients living in Ontario who are registered with the ODDP at Sunnybrook Health Sciences Centre are eligible to receive certain medications (e.g., some antiretrovirals, aerosolized Pentamidine) free of charge, regardless of ODB status. For further information, call (416) 480-4451.

Emergency Drug Release Program (EDRP)

To obtain medications that are currently not listed in Canada, the Therapeutic Products Program (TPP) must be contacted at **(613) 941-2108**. Requests are made on a per patient basis, and in some cases, the drug manufacturer should also be contacted. These drugs are often (but not always) provided free of charge (depending upon the particular product and company), and a dispensing fee may be charged.

Compassionate Release

Manufacturers may occasionally provide agents (either investigational or licensed) free of charge on a compassionate basis, for patients who cannot otherwise afford the medication. Further information may be obtained by contacting the manufacturer directly.

AIDS SURVEILLANCE DEFINITION CDC

The revised system emphasizes the importance of CD4 lymphocyte testing in clinical management of HIV infected persons. The system is based in 3 ranges of CD4 counts and 3 clinical categories with a maximum of 9 inclusive categories. The system replaces the 1986 classification.

CRITERIA FOR HIV INFECTION: Persons 13 years or older with repeatedly (2 or more) reactive screening tests (ELISA) and + specific antibodies identified by supplemental test e.g., Western blot reactive pattern - + vs. any two of p24, gp41, or gp120/160 (MMWR 40 681, 1991) Other specific methods of diagnosis of HIV-1 include virus isolation, antigen detection, and detection of HIV genetic material by PCR or branched DNA assay (bDNA).

 CLINICAL CATEGORY C Candidiasis esophageal, trachea, bronchi 	 Coccidoidomycosis, extrapulmonary Cryptococcosis, extrapulmonary 	Cervical Cancer, invasive Cryptosporidiosis, chronic intestinal (>1 month) CMV retinitis, or CMV in other	than liver, spleen, nodes HIV encephalopathy Herpes simplex with mucocutaneous ulcer > 1 month	 Histoplasmosis disseminated, extrapulmonary Isosporiasis, chronic > 1 month 	 Kaposi's sarcoma Lymphoma: Burkitt's, immunoblastic, primary in brain M, avium or M kenessii 	extrapulmonary M tuberculosis, pulmonary or extrapulmonary	 Pneumonia, recurrent (≥ 2 episodes in 1 year) Progressive multifocal leukoencephalopathy Salmonella bacteremia, recurrent 	Wasting syndrome due to HIV
CELINICAL CATEGORY B Symptomatic, not A or C conditions	Examples include but not limited to Bacillary angiomatosis	 Candidiasis, vulvovaginal persistent > 1 month, poorly responsive to therapy Candidiasis, oropharyngeal 	 Cervical dysplasia, severe or carcinoma in situ Constitutional symptoms e.g., fever (38.5°) or diarrhea > 1 month 					The above must be attributed to HIV infection or have a clinical course or management complicated by HIV.
Ion	ess		· <u>-</u>					nguinal meter for
 CLINICAL CATEGORY A Asymptomatic HIV infection Persistent generalized 	lymphadenopathy (PGL) - Acute (primary) HIV illness							Nodes in 2 or more intra-Inguinal areas, at least 1 cm in diameter for ≥ 3 months

***These are the 1987 CDC Surveillance Definitions (MMWR 36:15 1987) The 1993 CDC Expanded Surveillance Definition includes all conditions contained in the 1987 definition plus persons with documented HIV infection and any of the following: 1. CD4-T-lymphocyte count < 200/mm

pulmonary tuberculosis 3. recurrent pneumonia (> 2 episodes within 1 year) 4. invasive cervical carcinoma. NOTE: CANADA HAS NOT COMPLETELY ACCEPTED THE ABOVE REVISED CDC HIV CLASSIFCATION SYSTEM

IMMUNODEFICIENCY CLINIC STAFF

STAFF PHYSICIANS

Dr. Rodrigo Cavalcanti

Dr. Wayne Gold

Dr. Rupert Kaul

Dr. Darrell Tan

Dr. Valerie Sales

Dr. Sharon Walmsley

Dr. Irving Salit

Dr. Hillar Vellend

Dr. David Wong

Dr. Abdu Sharkawy

Dr. Evan Collins

NURSES

Pauline Murphy **Christine Walach**

Joanne Daly-Wooder

RESEARCH NURSES

Rosemarie Clarke

Warmond Chan

Adroama D'Aquila

Bryan Boyachuk

Marie Sano

Banita Aggarwal

PHARMACIST

Alice Tseng

PHARMACY

Aneeta Lal

MANAGER

Denise Williams

SOCIAL WORKERS

Bob Burgoyne

Andrea Sharp

PSYCHIATRIST

Dr. Adriana Carvalhal

RECEPTIONISTS

Rookmin Ultscher

Stephen Bunce

RESEARCH ANALYSTS

Sherine Sterling Richard Scane

Joey Berger

IMMUNODEFEICIENCY CLINIC TELEPHONE LIST

ROOM	NAME	TELEPHONE
1300	Reception Desk (Rook and Stephen)	416-340-4800 x 5077/5179
1304	Clinic Treatment Room	416-340-4800 x 8808
1305	Aneeta Lal (Pharmacy coordinator)	416-340-4800 x 5207
1307	Research Exam #1	416-340-4800 x 8809
1308	Pauline Murphy (Clinic Nurse)	416-340-4800 x 8167
1308	Joanne Daly-Wooder (Clinic Nurse)	416-340-4800 x 8587
1308	Christine Walach (Clinic Nurse)	416-340-4800 x 8813
1308	Clinic Nurses Work Station	416-340-4800 x 8813
1309	Research Exam Room #2	416-340-4800 x 8812
1314	Alice Tseng (Pharmacist)	416-340-4800 x 8763
1316	Robert Burgoyne (Social Worker)	416-340-4800 x 8609
1317	Conference Room	416-340-4800 x 5613
1323 #27	Research Nurse (Warmond)	416-340-4800 x 6954
1323 #30	Research Nurse (Rosemarie)	416-340-4800 x 6723
1323 #28	Research Nurse (Adriana)	416-340-4800 x 8170
1323	Research Nurse (Bryan)	416-340-4800 x 4239
1335	Exam Room #3	416-340-4800 x 8818
1336	Exam Room #4	416-340-4800 x 8219
1339	Exam Room #5	416-340-4800 x 6518
1340	Exam Room #6	416-340-4800 x 8814
1343	Cytology Screening – Procedure #1 (Marie Sano)	416-340-4800 x 8172
1345	Procedure Room #2 (Banita Aggarwal)	416-340-4800 x 8276
1355	Research Clerk (Sherine)	416-340-4800 x 5160
1355	Research Clerk (Richard)	416-340-4800 x 8414
1355	Research Clerk (Joey)	416-340-4800 x 5613
1000	Account of Chain (Coop)	120 010 1000 8 0010
Nurse Manager Denise	416-340-4800 x 6305	
Immunodeficiency Clin	ic	Fax: 416-340-4890

IMMUNODEFICIENCY CLINIC

Objectives for Rotating Housestaff:

To gain insight into:

- 1. The epidemiology of HIV worldwide and within Canada/Ontario/Toronto.
- 2. The pathogenesis of HIV.
- 3. The modes of transmission of HIV.
- 4. The natural history of HIV.
- 5. Testing methods
- 6. The monitoring of HIV infection and its progression.
- 7. Antiretroviral therapy and its complications.
- 8. The risks for development of antiretroviral resistance, testing and its limitations and management
- 9. The management and prophylaxis of opportunistic infections.
- 10. The interactions and toxicities of drugs used in patients with HIV.
- 11. The mechanism of acquisition of various HIV-related medications and their associated costs.
- 12. The psychosocial aspects of HIV including appropriate interviewing techniques.
- 13. The role played by primary care physicians, community-based programs, and palliative care programs/institutions.
- The effect of HIV on different populations: i.e., women, men, immigrants, minorities and I.V. drug users and Hepatitis coinfection.
- 15. Post-exposure prophylaxis \rightarrow sexual and occupational.
- 16. Use of antiretrovirals to prevent maternal to fetal transmission.
- 17. Role of Research in management of HIV.

INITIAL PATIENT VISIT

The patient has usually been referred by a family physician to assess for initiation of antiretroviral therapy or a change in antiretroviral therapy.

New patients have been assessed by the nurses and that information is recorded on nursing assessment sheets in the front of the chart.

After the history and physical examination, the patients have blood tests and necessary immunizations done in the clinic (see attached sheets). Most patients are followed every three months or so.

The main parameters that are followed are CD4 count and viral load. These are generally done at baseline and are done again about a month after any treatment changes. It takes about two weeks to get the results of the viral load but the CD4 count results are available in one to two days. After blood tests, the patients are usually told to come back in about three weeks after those tests. The CD4 count is available in Mysis, the viral loads only in the chart.

It is recommended that all new patients see one of the social workers at their initial or subsequent visit.

One of our pharmacist is available to do consultations on patients who need further counselling about their therapy (e.g., difficulty with adherence) or if there are potential drug interactions. It is best if the patient picks up their medications from the pharmacy first.

Confidentiality Issues:

Keep the information including names of patients private and do not reveal those to other patients. (e.g., keep charts and lab results out of the view of patients).

A letter is dictated on all patients after each visit. After dictation, return the charts to the nursing area and give the tape to our clinic typist, Marilyn. All dictations should be completed within 48 hours.

TREATMENTS AND PROCEDURES DONE IN CLINIC

Venipuncture – all blood tests are done in the clinic

Blood transfusions

Short-term infusions (i.e., antibiotics, fluids)

Lumbar puncture

Bone marrow (need to arrange appointment time with hematology)

Central Venous Catheter care

TB skin testing/anergy testing

Vaccinations — Pneumovax, flu shots, Hepatitis B vaccine

Patient teaching for IV therapy at home

Drug desensitization — Septra

Counselling and Patient Family Education with Social Work

Patient teaching for T20 (Fuzeon) therapy

Patient teaching and monitoring for PEG-interferon, Ribavirin therapy

L-cath insertion

IM Benzathine Pen G for syphilis

COMMUNITY RESOURCES

Community Care Access Centre (CCAC)

Services include nursing, PT, OT, social worker, speech therapy and dietician

Home Oxygen

(no longer covered through Home Care) Contact local oxygen suppliers The Oxygen Specialists — 800-263-5548 Medigas — 365-1700

Assistive Devices Program

For nebulizers, scooters — 1-800-268-6021

AIDS Committees

Counselling
Support groups
Buddy systems
Care teams
ACT — 416-340-2437

Voices of Positive Women

Phone: (416) 324 8703

Theresa Group Child and Family Aid

Phone: 416-596-7703

PWA Foundation

Financial counselling and aid — 416-506-1400

PALLIATIVE CARE PROGRAMS

Outpatient Services (Tammy Latner Centre)

Mt. Sinai Palliative Care Program — 416-586-8594 Trinity Hospice — 416-364-1666 Casey House Home Hospice — 416-962-7600 Casey House CHAPS Program — 416-962-7600

Inpatient Services

Casey House Home Hospice — 416-962-7600 Riverdale Hospital — 416-461-8252

Supportive Housing

McEwan House — 416-929-6228 Barrett House — 416-864-1627 Fife House — 416-205-9888

There are many other community resources. These are the ones that clinic staff refer to most frequently.