Section III:  
Divisions and Programs

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Clinical Services Division

Outpatient Clinic Locations
The Department of Pediatrics and Human Development has two clinical sites; the General Pediatric Clinic, located in the Clinical Center, and the Pediatric Subspecialty Clinic, located in the Sparrow Professional Building.

The General Pediatric Clinic is the practice site for 6 general pediatricians. The MSU Pediatric Subspecialty Clinic has the following clinics; Pediatric Hematology/Oncology, Pediatric Cardiology, Pediatric Pulmonology and Hyperlipidemia Clinic.

MSU Pediatric Clinic
A110 Clinical Center
138 Service Road
East Lansing, MI 48824
(517) 353-3003
Director: Jane Turner, MD

MSU Pediatric Subspecialty Clinic
Sparrow Professional Building
1200 E. Michigan Ave, Suite 145
Lansing, MI 48912-1811
(517) 364-5440
Director: H. Dele Davies, MD, MSc, MHCM
Clinic Billing Procedures

There are established protocols for billing and collection. Please familiarize yourself with the Healthteam policies; *Documentation Requirements for New Patients, Referral, and Consultations and Teaching Physician Documentation and Billing Requirements*. Both policies can be found in Section VIII. The nurse manager has the responsibility for ensuring that all department providers are given appropriate training for billing of both in-patient and out-patient care services. Questions concerning billing protocol at the various sites should be directed to the appropriate individuals at each site (and as listed in the directories in the Appendix). Clinicians should schedule time with the nurse manager to review in-patient and out-patient billing procedures prior to beginning their first clinic session and prior to their first scheduled in-patient service day.

Pagers

Each faculty member is given a pager. Each pager varies in its operating procedures. For questions on your specific pager please contact the Office Supervisor.

If your pager needs new batteries contact your Secretary, the Department Secretary, or the Office Supervisor.

See Appendix (the Department Phone List) for the pager numbers of faculty.

Web OnCall - Sparrow Hospital

Web OnCall is an Intranet based program at Sparrow Hospital. The program holds call schedules for Sparrow Medicine Department, MSU Medical Departments and private practices offices.

Web OnCall provides real time updating of call schedule with no follow-up fax or phone calls required. The program also allows 24/7 outside access to the schedules through sparrow Juniper Network Bridge.

Web OnCall is used throughout the Sparrow Health System as the primary access point for hospital call schedules. Your academic secretary and/or designee maintains the on-call schedule.
Divisional On-Call Information

On-call schedules must be completed monthly in cooperation with your specialty's Secretary. The completed faculty schedule must be submitted to the Department Secretary by the 20th of each month. The schedule will then be mailed and faxed to area hospitals, doctors, private practices, and other interested parties. The office must also be notified of any on-call schedule changes in order to notify the appropriate individuals.

The following is a sample on-call schedule:

```
MICHIGAN STATE UNIVERSITY DEPARTMENT OF PEDIATRICS/HUMAN DEVELOPMENT
GENERAL PEDIATRICS ON-CALL SCHEDULE

LOCATION
1032 Clinical Center
Michigan State University
East Lansing, MI 48824
Secretary: Betty Elliot (517) 355-4715
Clinic Appointments: (517) 353-3003

PHYSICIAN
J. Turner, M.D.
Y. Sigal, M.D.
J. Gold, M.D.
S. Sahanthar
A. Gomantula
S. Pawar

PAGER
229-0109
227-4011
229-7304
227-4011
229-1129
353-1117

HOME
337-4320
332-3654
406-4915
570-4995
347-4779

AUGUST, 2009

<table>
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<tr>
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<th>01</th>
<th>MONDAY</th>
<th>02</th>
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<th>03</th>
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<th>04</th>
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<th>FRIDAY</th>
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<tr>
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<td>2</td>
<td>Gold</td>
<td>3</td>
<td>Sigal</td>
<td>4</td>
<td>Sigal</td>
<td>5</td>
<td>Sigal</td>
<td>6</td>
<td>Sigal</td>
<td>7</td>
<td>Sahanthar &amp; help with NTS</td>
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</tr>
<tr>
<td>Sahanthar</td>
<td>9</td>
<td>Sahanthar</td>
<td>10</td>
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</tr>
</tbody>
</table>

Please be advised that between 8:30 a.m. and 4:30 p.m., Monday – Friday, call the physician on call at the clinic at 353-3003. During the business lunch hour, after 4:30 p.m., weekends and holidays please call the physician on call using the pager number or home phone number listed on the on-call schedule, or contact AMBS Message Center answering service at 342-1000.
```
Compliance Training
If you are clinical faculty you must complete the 3 on-line modules (HIPAA, Fraud Awareness and ORCBS). In order to log into the HIPAA and the Fraud Awareness modules you must have a USERID number. Please see Kathy Bosma or Olga Olowolafe for your assigned USERID number.

HIPAA
The Health Insurance Portability and Accountability Act of 1996 (HIPAA) has several required components that have been enacted in stages since 1996.

The HIPAA policy as stated by the MSU HealthTeam is as follows:

_The MSU Health Team has the legal and ethical responsibility to safeguard health information in its possession. Health information shall be maintained in a confidential, safe, and secure manner that protects the patient’s privacy while facilitating and continuing care and administrative operation. Violations of patient confidentiality will result in appropriate disciplinary action up to and including discharge._

_Examples of violations are as follows, but not limited to: failure to log off a computer or leaving documents with patient information where they are accessible to unauthorized individuals; discussing patient information in a public area; accessing patient information such as addresses, phone numbers, birth dates, etc. for non-work related uses; accessing personal or family member information in order to circumvent MSUHT policies and procedures; accessing patient information for use in a personal relationship; and selling patient information._

The HealthTeam Notice of Privacy is at: (http://www.healthteam.msu.edu/documents/noticeofprivacy.pdf)

A HIPAA course must be taken online after hiring.

Fraud Awareness

Fraud Awareness Training must be completed once annually via a course that can be found on the MSU HealthTeam website.

Instructions for Accessing the Fraud Awareness and/or HIPAA Training Modules: (www.healthteam.msu.edu/healthproport.aspx)

1. Log into the HealthTeam website www.healthteam.msu.edu and click on "Links", then click on "Get to HIPAA and Fraud Awareness Compliance Training here".

   _Pop-up window blockers must be disabled for the training module to function properly._

   _If a screen appears that states "Training has been launched in another window ... " click on the link that says "Launch Course". (This message means that you have"
a pop-up window blocker that prevents the training module from being started and this step will override it but you may encounter problems with your screens freezing.)

2. Enter name and user ID on the Log-in screen.

3. Select one of the following "Training Required" options that describes your job role:
   - Physician, Resident, or Fellow
   - Non-physician Provider
   - Patient Care Staff
   - Billing Staff
   - Other

4. Select viewing option.

5. Select the "Fraud Awareness" or the "HIPAA" training module.

6. Select the Curriculum Track that best describes your job role.

7. If applicable, select the appropriate Sub-specialty or choose "Generic/Other."

8. If applicable, select the appropriate Exam Type or choose "General Multi-system."


If you have any questions, please contact Mary-j Waterstraat, HealthTeam Compliance Officer at 355-1822.

Office of Radiation, Chemicals and Biological Safety (ORCBS)

The Office of Radiation, Chemicals and Biological Safety is responsible for training personnel who might have exposure to chemicals, radiation, and biologics. This includes all laboratory and clinical personnel. All training available is listed on their website and some courses, such as the Bloodborne Pathogens Refresher course (required for most P/HD employees), can be taken online. The following is a general requirement list of what training is required for which position; for a more detailed listing visit http://www.orcbs.msu.edu/ or call 5-0153.

- All laboratory personnel who will use any type of hazardous chemical must complete Chemical Hygiene and Laboratory Safety (one time course), Hazardous Waste Refresher (Annually), and Security Awareness (one time course).

- All employees working with radiation must complete Radiation Safety Initial (one time course), and Radiation Safety Refresher (Annually).
- All employees who have a reasonable anticipated risk of exposure to BBPs must take Bloodborne Pathogens Initial (one time course), and Bloodborne Pathogens Refresher (annually).
- All researchers working with infectious agents or recombinant DNA must take Biological Safety (one time course).

To assess the on-line initial training module you can go to the Healthteam website http://healthteam.msu.edu/healthproport.aspx. Scroll to ORCBS training and click on the link to ORCBS Bloodborne Pathogens Initial Training Program.

**EMR (Electronic Medical Record)**

Centricity EMR is an electronic medical record (EMR) system that enables ambulatory care physicians and clinical staff to document patient encounters, streamline clinical workflow, and securely exchange clinical data with other providers, patients, and information systems.

Centricity EMR is used by thousands of physicians to manage millions of patient records, and is among the most widely used ambulatory care electronic medical records. Centricity EMR empowers healthcare providers to deliver the highest quality of care at lower costs.

All Clinical Faculty are required to attend the EMR new user training. Classes are held Monday from 1:30p -3p in A205C Clinical Center. The clinic manager will enroll you into a class before you see your first patient. Please review training material prior to class on the web at http://www.emr.msu.edu/.

**Risk Management Policy**

The MSU HealthTeam Risk Management Policy and Procedure is as follows. Additional information regarding risk management can be found at http://www.ctlr.msu.edu/rmi/.

**Policy Statement**

THE MSU HealthTeam shall support a risk management program to eliminate or reduce the risk of loss or injury to patients, employees, or visitors and to eliminate or reduce the risk of liability or other loss due to such injury.

**General Information**

1. Indemnification is provided for faculty, staff and students consistent with the Indemnification policy statement approved by the Board of Trustees on Sept. 2, 1983.
2. Medical professional liability insurance is provided for faculty, staff, and students pursuant to the indemnification Policy statement.

3. The Risk Management and Insurance Program includes a system for reporting incidents that give rise to potential professional liability, employment of independent actuaries to evaluate risk financing and annual program approval by the Michigan Insurance Bureau.

4. The Board of Trustees Quality Assurance and Risk Management policy statement of July 27, 1979 addresses responsibility for administration of the risk management system.

**Quality, Risk Management & Patient Safety**

The Quality, Risk Management and Patient Safety department’s goal is to assist the HealthTeam to provide the highest level of quality care that is effective, consistent and safe. We oversee quality improvement, peer review, patient safety, risk assessments, prevention, and risk reduction strategies.

**Occurrence Reporting**

[https://qxpert.quantros.com/orm/msu](https://qxpert.quantros.com/orm/msu)

**Location**

Clinical Center  
A 118 D  
East Lansing, MI 48824

**Hours**

8am-5pm, Monday-Friday

**Contact**

Susan Dolby RN, BSN, CPHRM  
Quality and Risk Administrator  
Clinical Center, A 118D  
Phone: 517-432-6690  
Fax: 517-432-6692

Carol Anne Newell RN, BHSA  
Quality Improvement Coordinator  
Clinical Center, A 118F  
Phone: 517-432-8225  
Fax: 517-432-6692
Neonatology Division

The Division of Neonatology at Michigan State University School of Medicine is a major regional academic center for clinical and research training. Clinical training is offered in the Neonatal Intensive Care Unit at Sparrow Hospital, which is the State-designated regional referral center for Mid-Michigan.

The NICU is a state-of-the-art, modern, 35-bed, level 3 unit (for infants requiring acute and complex intervention). Sparrow Hospital’s Regional Perinatal Center is the sole referral center for high-risk pregnancies in mid-Michigan. The Developmental Assessment Clinic (DAC) provides follow-up developmental screening for infants who were admitted to the NICU.

The Division has a fully accredited 3-year Fellowship Training program in Neonatal-Perinatal Medicine. There are currently 4 fellows in training.

There are 6 full-time faculty members and a number of adjunct faculty who provide clinical care to the NICU patients and mentorship in research to the fellows.

Research facilities are located on the campus of Michigan State University (MSU), a Big-Ten University with an enrollment of 42,000 students. The MSU campus is only 1.5 miles from Sparrow Hospital. The research efforts of the Division of Neonatology involve close collaboration with the Departments of Epidemiology, Microbiology, and Physiology on the MSU campus.

Research Division

General Information on Grant Applications, Awards, Clinical Trials and Human Subjects

Pre-Award

When preparing for a grant application, please contact the department Research Administrator to setup a meeting to review the administrative components of the proposal. It is desirable to notify the Research Administrator at least 75 days prior to the submission deadline; this will give the Research Administrator time to begin to prioritize other projects and other faculty grant applications in addition, notifying the appropriate Support Staff who will also be assisting with the application.
Post Award

Generally, the Principal Investigator and Research Administrator will be notified by Michigan State University’s Contract and Grant Administration Office with a Notice of Award. At that time, it is best to meet with the Research Administrator to review the budget and make any necessary changes.

Monthly expense reports will be sent out for review. It is important to review the expense reports for appropriate expenditures and to ensure there is an adequate balance to continue with project. If there will be a surplus of funds at the end of the project, a no-cost extension may be requested.

Clinical Trials

The first step in preparing for a clinical trial is the completion of a site information sheet and the approval of the Confidentiality Disclosure Agreement (CDA). Most companies provide the CDA, which can then be forwarded to MSU Technologies for review and signature. The CDA **cannot** be signed by the Principal Investigator.

After the CDA has been reviewed and signed, the company will send the clinical trial agreement/contract, suggested budget, protocol and other pertinent documents for the study. The budget and contract can then begin to be developed. The Office of Clinical Research ([http://www.clinicalresearch.msu.edu/](http://www.clinicalresearch.msu.edu/)) can assist in developing the budget and a cost analysis while Contracts and Grants Administration ([www.cga.msu.edu](http://www.cga.msu.edu)) can simultaneously review the clinical trial agreement/contract. Allow 6-8 weeks for finalization of the contract.

Human Subjects

Anyone involving human subjects for their research projects must complete the online human research protection tutorial. Registration is required to begin the tutorial. To register as a new investigator through the Human Research Protection Program, visit [http://35.8.104.116:591/ucrihs/ucrihs_main/pi_search.htm](http://35.8.104.116:591/ucrihs/ucrihs_main/pi_search.htm) to set up your profile. You will be directed to the online IRB tutorial after completing your registration. Allow approximately one hour to register and complete the tutorial. Completion of the IRB tutorial is valid for two years. After two years, you will need to renew your training.

Initial training and renewal information can be obtained by going to [http://www.humanresearch.msu.edu/requiredtraining.html](http://www.humanresearch.msu.edu/requiredtraining.html).

Contact the department Research Administrator to assist in coordinating the process for Clinical Trials.

Contact Information:

Julie Lowman
Department Accountant/Research Administrator
Other Resources:

http://phd.msu.edu/Research.aspx

http://www.research.chm.msu.edu/

http://www.clinicalresearch.msu.edu/

http://www.cga.msu.edu/

http://grants.nih.gov/grants/grants_process.htm#process

http://grants.nih.gov/grants/managing_awards.htm#post

http://grants.gov
Human Subjects Approval (University Guidelines)

The University Guidelines for Human Subjects approval can be found in the University Handbook Section VI at: http://www.hr.msu.edu/documents/facacahandbooks/facultyhandbook/protection.htm

A sample form for Initial Review of HAS is displayed below:
 SECTION III - DIVISIONS PROGRAMS FINAL 8-2009.DOC
Updated 9/12/2009

13
5. Knowledge (roles and responsibilities to medical community)

6. Potential risks to subjects
   A. Risks to the study participants must be those inherent in the procedures used. The only risks that are acceptable are those associated with the medical follow-up of the study participants.
   B. Ages and sex of the children, parents, and guardians.

21. Budget planning
   A. How will the funds be used in the planning stage and how will the study participants be enrolled? The study will take place by the completion of the study.

22. IRB
   A. Yes
   B. No
   C. Yes
   D. No
   E. The study protocol includes a statement of the procedures and techniques that will be used and the risks that might be involved.
   F. The study will be conducted under the supervision of a qualified investigator.

23. Consent
   A. Written consent form will be used. Consent will be obtained from the parents of the children.
   B. Consent will be obtained from the subjects.

9. Confidentiality of subjects, review of this page
   A. Data will be collected in a manner that subjects are identified either directly or through identifiers linked to them.
   B. Data will be collected in a manner that subjects are not identified either directly or through identifiers linked to them.
   C. Data will be reported in such a manner that subjects are not identified either directly or through identifiers linked to them.

10. Approval of consent form (cont.)
    A. Approval of consent form (cont.):
    B. Approval of consent form (cont.):
    C. Approval of consent form (cont.):
    D. Approval of consent form (cont.):
    E. Approval of consent form (cont.):

11. Value of documentation
    A. Value of documentation:
    B. Value of documentation:
    C. Value of documentation:
    D. Value of documentation:
    E. Value of documentation:

24. Conflict of interest
   A. No
   B. Yes
   C. Yes
   D. No
   E. Yes

25. Inclusion criteria
   A. Inclusion criteria:
   B. Inclusion criteria:
   C. Inclusion criteria:

26. Exclusion criteria
   A. Exclusion criteria:
   B. Exclusion criteria:
   C. Exclusion criteria:
   D. Exclusion criteria:

27. Eligibility criteria
   A. Eligibility criteria:
   B. Eligibility criteria:
   C. Eligibility criteria:
   D. Eligibility criteria:
   E. Eligibility criteria:
27. Assurance of Principal Investigator:

I will promptly report proposed changes in the activity or unanticipated problems involving risk to subjects or others including adverse reactions to biological, chemical, radiologic, or other medical devices to the IRB and, in the case of research supported with federal, to the Department of Health, Education and Welfare through the appropriate granting offices.

As the Principal Investigator on this project, I certify that the information provided in this application is accurate and fully describes any and all procedures regarding human subjects under which I am conducting this research.

I, the undersigned, agree to accept responsibility for the ethical conduct of the project and the protection of the rights and welfare of the subjects.

As principal investigator, I assume responsibility for the management and other personnel involved in this project in regards to their compliance with the above stated policies.

I will maintain documentation of informed consent for at least three years after the proposed activity has been completed or discontinued.

The IRB is obligated to continue to review this activity. Therefore, I agree to furnish progress reports to the committee when requested.

There will be a principal investigator and co-investigators to carry out the research.

Principal Investigator or Project Director Date

For faculty or staff supervisor approval, if applicable.

I believe that the research can be safely completed without endangering human subjects. Further, I have reviewed the proposed plan and am willing to supervise the investigation.

Faculty or staff supervisor Date

Revised 9/12/09
Curriculum Vitae Guidelines

These guidelines are meant to help you re-format your CV so that all Pediatrics and Human Development faculty and staff achieve a consistent manner of reporting activities. Not all sections will apply to all people; if a section does not apply, simply do not include it on your CV. All sections except the bibliography should be organized from the most recent information/events to the most dated information/events. Remember to include the number of pages, spell-check, and proofread. There should be one line between a heading and the content under each section, and two lines between each section.

For more information or questions regarding your CV contact your support staff secretary.

PERSONAL DATA (in caps, bold, underlined, no colon or semicolon)

Name:
Professional Address:
Home Address: optional
Present Rank:
Department:
Institution:
*Do NOT include personal information such as your social security number, date of birth, marital status, spouse information, children’s names/ages...etc.

(2 lines between section)

EDUCATION

List Degree Earned: (degree, month/year, at what institution, etc. Always list from the most recent, to the most dated.)
List other Degrees Earned:

POSTDOCTORAL TRAINING

List Degree Earned: (degree, month/year, at what institution, etc. Always list from the most recent to the most dated.)
List other Degrees Earned:

SENIOR POSTDOCTORAL TRAINING

List any types of special leaves, sabbatical leaves, for research purposes...etc. List dates by month/year, type of leave, and location and institution.

(Your appointments section my be divided into the following categories, or you may choose to list all appointments together in one chronological list.)

ACADEMIC APPOINTEES

(Always list by month/year from the most recent, to the most dated. Include institution.)

Examples: Senior Research Scientist
Senior Associate Research Scientist
Assistant Research Scientist
Research Investigator
Clinical Instructor—Professor
Professor
Associate Professor
Assistant Professor
Instructor
Lecturer

ACADEMIC ADMINISTRATIVE APPOINTMENTS

(Always list by month/year from the most recent to the most dated. Include institution.)

Staff Physician
Physician Volunteer
Medical Director
Assistant Medical Director
Director
CLINICAL/HOSPITAL APPOINTMENTS

(Always list by month/year from the most recent, to the most dated. Include institution.)
Staff Physician
Physician Volunteer
Medical Director
Assistant Medical Director
Director

CONSULTING POSITIONS

(Always list by month/year from the most recent, to the most dated. Include institution.
These are usually affiliations with Industry.)
Examples Include: Memberships on Advisory Boards
Regular and occasional consultant to pharmaceutical companies
Consultant to governmental agencies (Department of Agriculture, etc.)

SCIENTIFIC ACTIVITIES

(List dates and names of journals or institutions).
Ad hoc reviewer of manuscripts or grants
Editorial Boards
Study sections
Membership in programs such as the Cancer Center...etc.

GRANT SUPPORT

(This section will be broken up into three subsections. Each subsection heading should be non-caps, bold, with a colon.)
Recent:
(List grants from most recent to the most dated. List grants according to current PHS 398 NIH Biosketch format, if possible. The template biosketch forms are available on the following website: http://grants2.nih.gov/grnats/funding/phs398/biosketchsample.doc)

<table>
<thead>
<tr>
<th>Grant #</th>
<th>PI Name</th>
<th>Dates of Grant Funding</th>
<th>$</th>
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</thead>
<tbody>
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</tr>
</tbody>
</table>

Sponsor
Title
Role:

Current: (List all current funding)

Pending: (List all pending, accepted funding, and prospective dates)

CERTIFICATION AND LICENSURE

(List all certifications, include year and type of Board Certification, Fellowship Certification, BLS/ACLS, etc. List dates and states for medical licenses, DEA registration, etc.)

MILITARY SERVICE

(List dates and types of military service, including Reserves.)

HONORS AND AWARDS

List dates and names of honor or award received: These can be international, national, regional, local, or institutional awards and honors.
Examples include: Senior Fellow, Michigan Society of Fellows
Weil Distinguished Faculty Award
Honorary Doctor of Science Degree, Purdue University
American Medial Association: Physician’s Recognition Award
Visiting Professorships/Honorary Lectureships

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

List dates and names of professional societies in which you are a member. If you have served as an officer, list the office held and the dates of service.

TEACHING ACTIVITIES

List dates and all types of teaching activities. List international, national, and local teaching activities.

Examples include: Lectures
Courses taught
Mentoring (describe type of mentoring and type of students—graduates students...etc.)
Training Grant Membership
Course Director
Student Rotations, laboratory or clinical
Dissertation Committees
Membership on a curriculum group
Curricular or educational materials
Attending Physician
Clinical Clerkship Coordinator
Grand Rounds Presentations

EXTRAMURAL INVITED PRESENTATIONS

List invited international, national and local presentations, lectures, and seminars. Include the date, title, and institution of presentation.
OTHER PRESENTATIONS

List any other presentation presented at professional meetings.

COMMITTEE AND ADMINISTRATIVE SERVICE

NOTE: If you served as a chair, co-chair, member, etc. Include dates (most recent to the most dated). This section can include the following subsections:

National:
i.e. Scientific Advisory Committees for NIH, etc.

State/Regional:

University:
i.e University Graduate Council

Medical School:
i.e. Executive Committees, Planning Committees, Admissions Committees, etc.

Hospital:

Department:
i.e. Reappointment, Promotion, and Tenure Committee, etc.

Community Service: Optional

PATENTS

List any patents by name, number, and date of issue.

BIBLIOGRAPHY

List completed publications in scientific journals according to the headings below. Number the publications for each heading. Each publication should include the full title and complete list of authors.
Peer-Reviewed Publications: *publications should be displayed as following:*

Lastname FI, Lastname, FI, Lastname FI. Title... *Abbreviated Journal Title* YEAR;

Examples:

95:213-218.


Non-Peer-Reviewed Publications:

Articles Accepted for Publication:

Example:


Articles Submitted for Publication:

Electronic Publications:

Educational Videos/Physician Education Materials:

Books:

Chapters in Books:

Abstracts, Preliminary Communications, Clinical Papers:

Research Publications in Non-Scientific or Clinical Journals:
Research Day
The Department holds an annual Research Day in the spring of each year. The Research Committee, made up of Pediatrics & Human Development faculty and staff, selects all of the speakers for the event. Abstract submissions are accepted from graduate students, medical students, post docs, residents, fellows and faculty. A poster session offers a visual interpretation of the abstracts. Awards are presented for the best abstract in categories designated by the Research Committee. Judges are P/HD faculty as well as members of the Research Committee. CME credit is offered through the College of Human Medicine to D.O.s and M.D.s. For more information, contact the Research Secretary.

The following is a sample Research Day Brochure:
Laboratory Division

The Michigan State University Human Genetics Program includes a molecular DNA testing laboratory, a biochemical prenatal screening laboratory, and a cytogenetics testing laboratory, as well as a complete genetic counseling service.

DNA Laboratory

The MSU Human Genetics Molecular DNA Testing Laboratory was established in 1992 and has been dedicated to providing quality genetic testing at a reasonable cost. The laboratory offers genetic testing for various types of congenital genetic conditions such as Cystic Fibrosis, Hereditary Hemochromatosis, Prader-Will and Angelman syndromes, and acquired genetic conditions such as leukemia. We are continuously expanding our testing services and soon we will provide genetic testing using Affymetrix aCGH platform.

AFP Laboratory

The MSU Human Genetics Prenatal Screening Laboratory was established in 1982. The laboratory offers a variety of maternal serum screening tests including full integrated screening, serum integrated screening, quadruple screening for Open Neural Tube Defects, Down syndrome, Trisomy 18, Trisomy 13 and Smith-Lemli-Opitz syndrome. The laboratory also performs amniotic fluid AFP and acetylcholinesterase (AchE) testing. Genetic counselors are available for phone consultation with physicians and patients regarding test results.

Cytogenetics Laboratory

The MSU Human Genetics Cytogenetics Laboratory was established in 1969. Today, the laboratory offers chromosome studies on peripheral blood, tissues and bone marrow to aid in the diagnosis of congenital and acquired genetic conditions. MSU Cytogenetics also offers FISH studies for congenital microdeletion syndromes and other various congenital conditions, as well as cancers. The Cytogenetics laboratory will soon offer aCGH studies for copy number variation (CNV), loss of heterozygosity (LOH) and uniparental disomy (UPD) using high resolution Affymetrix SNP array.

Visit the laboratory's website at http://www.phd.msu.edu/Divisions/HumanGenetics/LaboratoryServices.aspx for more information.