# **Early Detection Research Network**Manual of Operations

Version 3.0

# **Revision History**

Version	Date	Change
1	01-11-01	Created Sections 1, 2, 3, 4, 5, 6 and Appendices I, II, III
1.1	07-19-01	Created Appendix IV
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	9-16-2004	Created new Appendix – Website Users Guide
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#### SECTION 1 ORGANIZATION AND DEVELOPMENT

The Division of Cancer Prevention in the National Cancer Institute created the Early Detection Research Network (EDRN) for supporting investigator-initiated, collaborative research on molecular, genetic and other biomarkers for cancer detection and risk assessment. A number of programmatic review groups at NCI recommended that the EDRN be created.

Funded separately through peer-reviewed Cooperative Agreements, the EDRN has four components:

- Biomarker Developmental Laboratories (BDL). The BDLs are responsible for the development and characterization of new or refinement of existing biomarkers.
- Biomarker Reference Laboratories (BRL) (formerly known as BVL). The BRLs serve as a Network resource for clinical and laboratory validation of biomarkers that include technological development, refinement and quality control.
- Clinical Epidemiology and Validation Centers (CEVC) (formerly known as CEC).
   The CEVCs conduct clinical and epidemiological research on the validation of biomarkers and participate in Network-wide clinical validation of biomarkers.
- Data Management and Coordinating Center (DMCC). The DMCC supports statistical and computational analysis and informatics infrastructure, coordinates network-wide meetings and conferences and serves as the Coordinating Center for validation studies.

The network is governed by the Steering Committee, consisting of the Principal Investigators of the EDRN and NCI staff. The Network also has a Network Consulting Team composed of non-EDRN investigators appointed by EDRN Steering Committee to review the progress of the Network and to recommend new research opportunities.

The operating procedures were initially approved January 2001 by the Steering Committee.

These procedures provide guidance for the administrative and operational activities of the EDRN and may be modified or revised by approval of the Steering Committee as experience and need dictates. Any member in good standing (i.e., a member who attends at least one Steering Committee meeting per year) may propose amendments to the procedures.

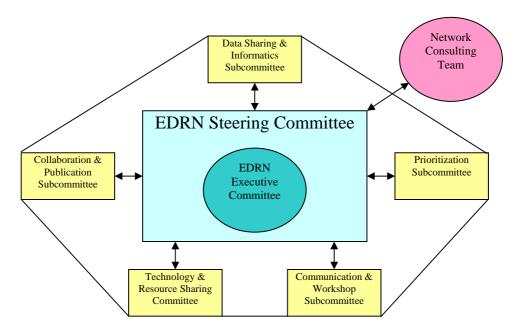
#### 1.1 Statement of Objectives

- To support and facilitate a broad spectrum of research activities that address early
  development and initial validation stages of molecular biology and genetics, including
  biomarkers that can be applied in risk prediction, early detection and primary prevention
  of cancer.
- To coordinate national and international research programs for the development of clinically useful biomarkers in preneoplastic lesions that accurately predict the risk of

invasive cancer or the presence of early cancer in asymptomatic individuals not previously diagnosed with the disease.

- To support the development of databases on the utility of biomarkers and expression patterns that will serve as background information for larger validation and efficacy studies.
- To promote collaboration and communication with other programs at the NCI, other Institutes within NIH, organizations with the National Cancer Program, and academic and industrial leaders from relevant disciplines.

#### **SECTION 2 COMMITTEES**



#### 2.1 Steering Committee

#### 2.1.1. Overview

The Steering Committee (SC) has major scientific management oversight and responsibility for developing and implementing a collaborative Network research program including protocols, publications, and design. The Committee consists of a Chair, Co-Chair, the EDRN Principal Investigators or a designee, and the NCI Program Coordinator or a designee. A Principal Investigator cannot designate an Associate Member to replace him/her at an SC meeting. Members of the SC review all data collected in Network studies, monitor study results, follow-up, and report to the full SC upon request of the Chair. Each member has one vote.

According to the requirements of the Cooperative Agreement, there are 2 SC business meetings and one scientific workshop each year that EDRN members should attend; additional meetings may be called as needed. The time and site for these meetings are determined by SC members. The Principal Investigator from each Cooperative Agreement is required to attend at least one SC meeting each year. There must be at least one representative from each Cooperative Agreement, however, at every SC meeting. The minutes of the SC meetings are prepared by the DMCC as a matter of record and distributed to the members of the SC for approval at the next meeting. NCI reserves the right to terminate a grant for failure to attend or have representation at SC meetings.

The PI of a U01/U24 or NIH intramural project will serve as a voting member of the Steering Committee and will attend the Planning meeting and two Steering Committee meetings in the first year and in subsequent years attend two Steering Committee meetings and an EDRN-Sponsored Gordon Conference or an EDRN-sponsored workshop. The attendance of PI at these meetings is considered an essential part of the grant.

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Committees

Applicants must budget for travel and per diem expenses for SC meetings. In the first year, applicants should plan for two investigators, the principal investigator and an additional senior investigator, to attend a Planning Meeting and two SC meetings. In the second and subsequent years, applicants should plan for the PI and another investigator to attend two SC meetings and one workshop per year.

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#### 2.1.2. Responsibilities and Privileges

- Develop guidelines for operating the EDRN
- Coordinate the research program within EDRN
- Develop criteria for reviewing progress of EDRN
- Establish and track milestones
- Develop and implement rules for sharing data and resources
- Disseminate information on the availability of resources (tissues, new technologies, and patients) within EDRN
- Develop criteria for selecting an Associate Member of the EDRN
- Develop criteria on the use of the Core Funds
- Develop and approve protocols for clinical research through the EDRN
- Develop criteria on evaluating and reviewing data on potentially promising new biomarkers
- Prepare annual Progress Reports for submission to NCI at the end of each fiscal year

#### 2.1.3. Chair

The Chair and Co-Chair are elected by the full SC. Any member of the SC can offer nominations for the Chair and Co-Chair. The term of office for the Chair is five years with eligibility for re-election for one additional term (for a total of 10 yrs). The term of office for the Co-Chair is 2.5 years with eligibility for re-election for one additional term (for a total of 5 yrs). The Chair makes all appointments in consultation with the SC.

#### 2.1.4. Duties of the Chair

- Preside at all meetings of the full SC
- Appoint and re-appoint members of Subcommittees, Review Groups, and designate special assignments
- Appoint the Chairs and Co-Chairs of Subcommittees, Review Groups, and Collaborative Groups
- Appoint ad-hoc committees as needed
- Invite consultants as needed to Subcommittees, etc.
- Appoint EDRN liaison members to other organizations
- Serve as a Co-Chair of the Executive Committee
- Serves as an ex-officio member of all Subcommittees, ad hoc Committees, and Task Forces
- Submit annual EDRN Progress Reports to NCI and the Network Consulting Committee

• Prepare the agenda for the SC meetings

#### 2.1.5. Duties of the Co-Chair

- Serve as acting Chair during absence of the Chair
- Serve as chair of the Executive Committee

#### **2.1.6.** Quorum

For holding meetings, including conference calls, a quorum is defined as the presence of the majority of SC members. If a quorum is not present, the meeting will be cancelled.

#### 2.2 Executive Committee

#### 2.2.1. Overview

The Executive Committee (EC) consists of a Chair, Chair of the SC, Chairs of Collaborative Groups, at least one Principal Investigator from a BDL, BRL, CEVC, and DMCC (if not represented in the Collaborative Group Chairs), and the NCI Program Coordinator or a designee. The Committee is chaired by the Co-chair of the SC. The term of office for the Chair is 2.5 years with eligibility for re-election for one additional term (for a total of 5 yrs). The EC meets as necessary to conduct the business of the EDRN or at the discretion of the Chair of the EC or SC. The minutes of the EC are prepared by the DMCC as a matter of record and distributed to the members of the EC for approval at the next meeting.

The Committee expedites the work of the SC and assists the Chair of the SC. It coordinates the administrative and research activities of the EDRN on a regular basis and provides a mechanism for communication on the management of the EDRN. The Committee makes recommendations on major policy issues to the SC.

#### 2.2.2. Responsibilities and Privileges

- Facilitate the work of the SC and assist the Chair of the SC
- Coordinate the administrative and research activities of the EDRN on a regular basis and serve as a forum for communication on the management of EDRN
- Conduct routine business to consider distribution of funds and to review and recommend for approval all research proposals submitted to the SC
- Approve Associate Members
- Recommend the release of Restricted and Core Funds to NCI
- Act for the SC on administrative and scientific matters between the semiannual SC meetings
- Oversee responsibilities of the Collaborative Groups

#### 2.2.3. Duties of the Chair

- Serve as Co-Chair of the SC
- Preside over meetings of the EC
- Prepare the agenda for EC meetings

#### 2.2.4. Duties of the Co-Chair

- Serve as acting Chair during absence of the Chair
- Serve as chair of the Steering Committee

#### 2.2.5. **Quorum**

For holding meetings, including conference calls, a quorum is defined as the presence of the majority of EC members. If a quorum is not present, the meeting or conference call will be cancelled.

#### 2.3 Network Consulting Team

#### 2.3.1. Overview

The Network Consulting Team (NCT) is independent of the programmatic oversight provided by the NCI. The NCT is a non-voting committee, composed of non-federal scientists, clinicians, patient advocates, and ethicists who are devoid of financial and/or collaborative affiliation with EDRN where a conflict of interest exists or may be apparent. The Chair and members of the NCT are recommended by the EDRN SC and selected by the Chair of the EDRN SC. At the recommendation of the Chair, EDRN SC, ad-hoc consultants may be recommended to serve on the NCT. Ad hoc consultants may be called upon for consultation in areas where specific expertise is needed yet lacking in the NCT. Ad hoc consultants may be federal or non-federal scientists, clinicians, patient advocates, and ethicists.

#### 2.3.2. Responsibilities and Privileges

The primary role of the NCT is to assist the EDRN in evaluating the overall Network concept. The NCT will assist in the evaluation and operation of the EDRN by:

- Exchanging facts, materials, or information pertaining to the review of progress and planning of research within the EDRN
- Providing non-binding advice of individual members (not consensus advice or consensus recommendations) to the EDRN SC or EC, when appropriate
- Reviewing the progress of the EDRN, which may include a member's participation in site visits
- Considering new research initiatives to ensure the EDRN is responsive to promising opportunities in early cancer detection research and risk assessment

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• Serving as members on ad-hoc committees of the EDRN, including Review Groups, Working Groups and Collaborative Groups, and as Consultants to Subcommittees

- Assisting the EDRN SC in planning and organizing workshops and symposia
- Participating in EDRN workshops and symposia
- Serving as a liaison between the cancer research community and the EDRN
- Meeting with NCI and EDRN leadership at the request of the Chair, NCT, NCI, or Chair, EDRN SC

#### 2.3.3. Chair

Appointed by the Chair of the EDRN SC for an initial 5-year term and is renewable for an additional 5-year term.

#### 2.3.4. Duties of the Chair

- Presides over all meetings of the full NCT
- Serves as liaison with the NCI Program Coordinator or designee

#### **SECTION 3 SUBCOMMITTEES**

#### 3.1 Overview

Subcommittees are the policy-making Working Groups of the EDRN and report to the SC when requested by the Chair. Subcommittees meet twice a year in conjunction with the SC business meetings. Conference calls are made any time on the recommendation of the Chair of either the SC or Subcommittees. Formal meetings between the semiannual meetings require approval by the Chair of the SC.

Voting members of the Subcommittees are the members of the SC; that is they are Principal Investigators in the EDRN. Co-investigators, Associate Members, and other interested parties, however, are welcome to attend Subcommittee meetings as consultants. The Chair of the SC appoints members to the Subcommittees although SC members can express their preferences on which Subcommittee they would like to serve. Members cannot serve on more than one Subcommittee simultaneously. Members are appointed for two years and can be re-appointed for a second, two-year term. Each Subcommittee member has one vote. Consultants for Subcommittees can be appointed by the Chair of the SC or by the Chairs of the Subcommittees as non-voting members.

#### **3.1.1.** Chairs

The Subcommittee Chairs and Co-Chairs are appointed by the Chair of the SC and must be EDRN Principal Investigators. Term of office is 2.5 years with eligibility for reappointment for one additional term (for a total of 5 yrs). It is the duty of the Subcommittee Chairs to determine whether a quorum is present before opening the meeting. The Chair has the responsibility to prepare the agenda and to report to the Steering Committee.

#### **3.1.2.** Quorum

A quorum for all Subcommittee meetings, including conference calls, is defined as the presence of the majority of the voting Subcommittee members. If a quorum is not present, the meeting or conference call will be cancelled.

#### 3.2 Collaboration and Publication Subcommittee

#### 3.2.1. Objective

The objective of the Collaboration and Publication Subcommittee is to define procedures and conditions for formal collaboration within the EDRN and with investigators outside the Network, and defines publication policies.

#### 3.2.2. Responsibilities and Privileges

- Develop procedures for formal research collaboration within and outside the EDRN, including collaboration with individual investigators, industry, academic centers, community hospitals, government agencies, international investigators, and Cooperative Groups
- Determine collaborative relation with private industry, especially with regard to IP issues
- Develop procedures for collaborating with NCI Programs, such as SPORE, CGAP and the Cancer Family Registries
- Determine the role of the SC in monitoring collaborative research within and outside EDRN
- Develop guidelines for order of authors, standard credits, statement for source of support, and common formats for the publication of EDRN research
- Assist in developing common EDRN materials needed for obtaining approval for EDRN studies from Institutional Review Boards

#### 3.3 Technology and Resource Sharing Subcommittee

#### 3.3.1. Objective

The objective of the Technology and Resource Sharing Subcommittee is to establish the rationale and conditions for sharing technology and other resources among investigators within and external to the EDRN.

#### 3.3.2. Responsibilities and Privileges

- Develop guidelines for sharing novel technology, reagents, and resources within the EDRN
- Develop guidelines for external Network sharing
- Develop guidelines and responsibilities for considering IP issues

#### 3.4 Communication and Workshop Subcommittee

#### 3.4.1. Objective

The objective of the Communication and Workshop Subcommittee is to achieve the full potential of biomarkers as tools to facilitate early detection of cancer by disseminating research goals and findings with the broader components of the research enterprise. To accomplish this objective, the Communication and Workshop Subcommittee defines formats for exchange of scientific findings such as workshops, seminars, and electronic information resources that serve to inform the research communities of scientific advances.

#### 3.4.2. Responsibilities and Privileges

- Develop long-term strategies that facilitate the translation of research advances into screening and detection practices
- Identify mechanisms to extend biomarker research to enable commercial development of diagnostic tools through public-private partnerships or collaborations
- Interact with organizations that facilitate the use of biomarkers in the clinical arena and discuss the long-term implications of biomarkers as screening and detection tools in population health
- Identify key audiences to engage/inform about EDRN research activities, goals, etc.
- Communicate with oncology groups, cancer research societies, immunology, biochemistry, pathology groups, epidemiology and biostatistical communities, biotechnology/bioengineering developers; technology transfer offices, voluntary health organizations, public health organizations, managers of health care, and regulatory agencies, etc.
- Organize workshops to inform other components of the research community of the opportunities and needs to implement biomarkers in clinical screening, clinical trials, and early detection, etc.
- Develop other communication mechanisms to facilitate information dissemination (e.g., electronic media (websites, listservs) for communication among centers, data registries, newsletters, supplements to journals).
- Oversee liaisons

#### 3.5 Prioritization Subcommittee

#### 3.5.1. Objective

The objective of the Prioritization Subcommittee is to establish procedures for prioritizing research and allocating resources within the Network.

#### 3.5.2. Responsibilities and Privileges

- Define the decision criteria needed for the evaluation of biomarkers beyond the discovery stage and set up a review process for implementing them in the EDRN
- Develop guidelines for coordinating the prioritized projects across the Network including obtaining involvement of the NCT
- Establish guidelines for utilization of the Core Funds and allocation of research resources
- Ensure integration of various components of the EDRN with the NCI Bypass Budget
- Develop metrics for evaluating the progress (success) of EDRN. Establish annual and overall milestones for EDRN that will be used for evaluating Network progress and

reporting to the NCT, NCI Executive Committee, NCI Board of Scientific Advisors, and National Cancer Advisory Board

#### 3.6 Data Sharing and Informatics Subcommittee

#### 3.6.1. Objective

The objectives of the Data Sharing and Informatics Subcommittee are to establish guidelines for the EDRN data structure and common data items, and to provide a forum for biostatisticians/analysts within EDRN to collaborate on research pertinent to EDRN.

#### 3.6.2. Responsibilities and Privileges

- Develop EDRN Informatics Enterprise System compatible with NCI Informatics Enterprise, NCI standards, and CTEP systems and evaluate for EDRN members
- Develop guidelines for security levels of the centralized database
- Develop guidelines for internal and external data sharing that include mechanisms to ensure that the data are used appropriately
- Develop guidelines for statistical design and evaluation of biomarkers
- Develop guidelines for posting materials on the secure website
- Review patient privacy requirements for EDRN in conjunction with the relevant Subcommittee
- Develop methods to promote data sharing with NCI programs such as CGAP, CGN, SEER, etc.

#### **SECTION 4 GROUPS**

#### 4.1 Standing Review Group

The Standing Review Group is responsible for reviewing Associate Membership applications. Members are nominated by the Chairs of the Collaborative Groups and the Prioritization Subcommittee and appointed by the Chair of the SC. The Group consists of one Principal Investigator from a BDL, one Principal Investigator from a CEVC, one Principal Investigator from a BRL, the Principal Investigator or designee from the DMCC, and two members appointed by the Chair of the EDRN SC. Additional EDRN and non-EDRN consultants can be added at the discretion of the EC. Details on the application and review processes are under the 'Policies and Procedures' section of this manual. Term of office is 2.5 years with eligibility for reappointment for one additional term (for a total of 5 yrs).

# 4.2 Working Groups

Working Groups shall be created for specific, finite projects as deemed needed by the SC or EC. Members of Working Groups are volunteers and appointees from the EDRN membership.

#### SECTION 5 ACTIVITIES TO PROMOTE COLLABORATION

#### 5.1 Collaborative Groups

Collaborative Groups are organ-specific groups designed to promote the exchange of information on organ related biomarkers and identify research priorities within EDRN. Members of the Collaborative Groups are the members of the SC, their co-investigators, Associate Members, and other interested parties. Members are encouraged to participate on the Collaborative Group that best reflects the expertise presented in their original peer-reviewed application. Members cannot serve on more than one Collaborative Group simultaneously. There are four Collaborative Groups: Breast/Gynecology, Prostate and Urologic, Lung and Upper Aerodigestive Tract, and G.I. and Other Associated Cancers.

#### 5.1.1. Responsibilities and Privileges

- Conduct routine literature reviews
- Write manuscripts describing the current state of biomarker development
- Review pre-proposals for EDRN Validation Studies
- Create opportunities for collaboration within each organ-based groups
- Provide leadership for identifying the most promising biomarkers

#### **5.1.2.** Chairs

The Collaborative Group Chairs and Co-Chairs are appointed by the Chair of the SC and must be EDRN Principal Investigators. Term of office is 2.5 years with eligibility for reappointment for one additional term (for a total of 5 yrs). It is the duty of the Collaborative Group Chairs to determine whether a quorum is present before opening the meeting. The Chair has the responsibility to prepare the agenda and to report to the Steering Committee. Former Chairs are ex officio members.

#### **5.1.3.** Quorum

A quorum for all Collaborative Group meetings, including conference calls, is defined as the presence of the majority of members. If a quorum is not present, the meeting or conference call will be cancelled.

#### 5.2 Liaison Members

The purpose of liaison members is to ensure that members of key scientific organizations are aware of EDRN activities and to ensure that EDRN members are aware of activities of outside organizations that may impact EDRN. Liaison members to scientific and professional organizations, including scientific programs at NCI, are appointed by the Chair of the SC. Liaisons are appointed to two-year terms with eligibility for reappointment for

another two-year term. Liaison members report to the SC on activities by other organizations that are relevant to the EDRN during the semiannual SC meetings.

# 5.3 Sponsor

- Act as spokesperson for the Associate Membership
- Keep track of members progress
- Shares significant progress with SC and EC when called for
- Participate in evaluating the progress at the end of the grant period

#### SECTION 6 POLICIES AND PROCEDURES

#### **6.1** Associate Membership

The Associate Membership is designed for investigators who are not affiliated with EDRN and wish to propose collaborative studies within the scope and objectives of the EDRN. There are three categories for Associate Membership.

Category A Members are domestic or foreign investigators who propose to conduct basic or translational research consistent with the priorities of the EDRN. Supplemental funds provided through Category A Membership are to be used as one-time "seed money" for pilot studies necessary to support applications for future independent funding. Funds are provided for a period of two years and are not renewable. Although support of Category A Members ceases after two years, they are considered to be Associate Members for the duration of the EDRN. Category A Associate Members are invited to participate in Workshops and Steering Committee meetings. The "seed money" will be \$50,000 per year for two years and the applicants must write the budget in a way that they can attend two meetings per year.

Category B Members contribute to the Network by sharing available technologies, contributing specimens, making available high-risk registries and cohorts, and providing other resources complementary to the Network. They can be domestic or foreign. Category B Members can reapply for funds annually (total funding amount should not exceed \$100,000, unless the Network needs determined by the EC justify additional funding). Category B Members are considered Associate Members after funding ceases for the duration of the EDRN. Category B Associate Members are invited to participate in Workshops and Steering Committee meetings. Any clinical or laboratory site (other than current BDLs, BRLs and CEVCs) participating in a validation study are considered Category B Members.

Category C, Corresponding Members, are scientists, organizations, clinicians, patient advocates, or ethicists who are interested in participating in Collaborative Group meetings and EDRN Workshops and Conferences yet do not receive funds from the EDRN. Category C Members will be invited to these meetings and conferences, but their expenses will not be supported by the EDRN. Category C members can be domestic or foreign. The application for Category C Members is the similar to that of other Associate Member applicants, with minor modifications: the budgetary document can be disregarded, and the proposal should explain how the applicant's participation at the meetings and workshops will contribute to the mission of EDRN. Category C Members are considered Corresponding Members for the duration of the EDRN. EDRN Members for which funding has ceased are considered Category C Members for the duration of the EDRN.

Associate Members are welcome to join a Collaborative Group on the basis of their expertise and interest. To apply for an Associate Membership, applicants must be sponsored by an EDRN Principal Investigator. For details on the application procedure please see the EDRN website: http://edrn.nci.nih.gov/index.html.

NIH policies (<a href="www.nia.nih.gov/ResearchInformation/FundingAndTraining/Policies/">www.nia.nih.gov/ResearchInformation/FundingAndTraining/Policies/</a>) are observed for accepting revised applications. The number of amended (revised) versions of

an application is limited to two, and these must be submitted within two years of the original submission.

The Standing Review Group's comments should be included in the revised application packet. The application must include an Introduction of not more than 2 pages that summarizes substantial additions, deletions, and changes. The Introduction must also include responses to the criticisms and issues raised by the reviewers.

Associate Members will agree to follow EDRN policies and procedures and include a copy of their annual progress report to their Sponsor and NCI.

#### 6.1.1. Responsibilities of the Sponsor

Sponsors of Associate Members are responsible for submitting the initial membership application, representing their interests in SC meetings, and inviting them to EDRN meetings.

Sponsors are responsible for ensuring that their Associate Member is accountable, follows all EDRN policies and procedures, and, if requested, provide an update on their Associate Member's progress.

#### 6.2 Funds

#### **6.2.1.** Definitions

There are two sources of funds available through EDRN: Restricted Funds and Steering Committee Core Funds.

Restricted Funds are funds that are set aside from the annual budget of BDLs, BRLs, DMCC and CEVCs for Collaborative Studies.

- After the first year investigators from BDLs must set aside 20% of their annual budget for Network Collaborative Studies.
- Investigators from BRLs are awarded \$200,000 in direct costs for year one for developmental study. For each of the subsequent years, the PI should submit an application for the set aside funds not to exceed \$200,000 in direct costs.
- Investigators from CEVCs must set aside 20% of their annual budget after the first year for Network collaborative studies. The reimbursement will be based on the complexity and amount of clinical data, specimen types, duration of follow-up, and other factors within collaborative studies as decided by the Executive Committee.
- The DMCC must set aside 30% of its funds for Validation Studies.

Applicants for the release of Restricted Funds must include their specific plans for responding to the terms and conditions section of their grant award notice. The use of these set aside funds is restricted and must be reviewed and approved by the EC and then recommended to, and approved by the NCI before release from the individual U01 or U24 awards.

Steering Committee Core Funds are reserved for post-award collaborative Network research and for expanding participation within the Consortium. These funds can also be used to assist in moving a marker through the validation process. Examples of validation funding needs include accrual of patients, scaling-up of reagents, contracting to other laboratories or companies to scale-up production and maintain the quality of reagents. Funds can also be used for data management, travel, meetings, and other collaborative activities of the Network.

#### 6.2.2. Release and Use of Restricted Funds

A Principal Investigator may only apply for the Restricted Funds within his/her Cooperative Agreement award. Restricted Funds may only be used for projects that complement the scope of the Cooperative Agreement award and/or support an approved EDRN Validation Study. More than one investigator may request the release of Restricted Funds for one collaborative project. A Principal Investigator may apply for more than one year's Restricted Funds, however, a status report must be submitted to NCI and should specifically detail how the Restricted Funds were used before subsequent year funds are considered for release. The status report may be submitted as part of the annual progress report submitted by the Principal Investigator. The applications for the release of Restricted Funds are reviewed by the EC at their monthly meetings. Applicants must apply for renewal within 90 days of their anniversary date of their Type 5 application. Validation Study applications for release of set aside funds are considered priority over other requests.

#### 6.2.3. Application Requirements for Release of Restricted Funds

The application for release of Restricted Funds includes the EDRN Study Proposal Application Form and a proposal. The proposal must be single-spaced and follow NIH Format, as used in PHS Form 398. It should be organized and submitted as follows:

- 1. Title Page (page 1 of the PHS Form 398). Description (Abstract), Performance Sites, and Key Personnel (use page 2 of the PHS Form 398). Bibliography of key researchers involved (use page 6 of PHS Form 398).
- 2. Scientific Proposal and References (up to 5 pages), organized into Rationale, Goals, Sample Size, Preliminary Data (optional), Technologic Design and Approaches, Contribution to Translational Research, and EDRN Specific Aims/Deliverables. Address review criteria as established by the EDRN Steering Committee (see Review Criteria section below).
- 3. Budget Page (final page unless an Appendix section is included). Use page 4 of the PHS Form 398. Adequate budget justification for direct costs is required.
- 4. Appendix (optional).
- 5. Ten paper copies and one electronic copy of the proposal should be submitted to the NCI EDRN Program Office.

All projects must comply with institutional regulations on research involving human subjects, children, minority groups, gender, animals, recombinant DNA, and hazardous materials. Appropriate approvals from the relevant committees, including approval from

institutional review boards, must be submitted to the NCI EDRN Program Office before funds can be provided for successful applications.

#### 6.2.4. Review Criteria

Definition: Set-asides funds are restricted funds that are awarded to an individual grant. The primary purpose of the set-aside fund (see RFA CA-05-023, CA-05-009) is to promote the laboratory/center participation in the Network-wide Validation Studies. In absence of such a study, the funds are considered for inter- EDRN or external collaborative studies. Intra-EDRN study is of higher priority. The proposed project should capitalize and leverage on the EDRN-established infrastructure and resources. Two major criteria must be met before recommending the release of restricted funds: scientific significance and collaborative strengths.

Review criteria for release of Restricted Funds are based on scientific merit and compatibility with EDRN objectives. Seven formal criteria are used to assess the suitability of proposals for supplemental support and/or advancement to the large-scale validation phase:

- Scientific merit
- Study design: e.g., prospective versus cross-sectional
- Technical parameters: reproducibility, sensitivity, specificity, throughput, automation, and cost
- Clinical or scientific impact: e.g., more common cancers or a significant impact in less common neoplasia
- Portfolio balance within EDRN and NCI's need
- Practicality and feasibility: e.g., required sample size, amount of tissue
- Collaborative strength, including contribution of resources and technology. Collaboration is a central mission of EDRN.

A project does not have to be strong in all review categories to be considered highly meritorious. For example, a methodology or infrastructure-related application may not be judged to be at a high level of scientific merit yet may be a critical component in an overall plan to achieve EDRN goals and may represent a high level of cooperation and interaction among investigators toward EDRN objectives.

#### **Additional Criteria**

#### 1. Significance

The application must clearly state the scientific merit of the proposal.

Does the proposed research convey the urgency of scientific needs in the area of biomarker-based diagnostics possible only through a collaborative approach?

Will the approaches advance the field of biomarkers/reagents development in the context of cancer detection and risk assessment?

Does the proposal uniquely discuss challenges and issues relevant to cancer detection and screening?

Does the project develop or employ novel concepts, approaches, methodologies, tools, or technologies for this area?

How would the proposed research complement or augment existing detection systems or methodologies?

Is the proposed approach or technology adaptable, or does it have the potential to analyze large samples in a population setting for screening purposes?

What is the immediacy of the research opportunity in light of the EDRN-established phases of biomarker development for early detection of cancer and potentials for moving biomarkers to Phase II or Phase III?

Does the applicant have demonstrable evidence for bringing biomarkers to Phase II or Phase III? This is particularly important for an analytical validation study.

To what extent are the specific aims integrated to address the proposed goals?

#### 2. Collaborative Strengths:

The application must clearly state the need for such a collaboration and reason as to why this study requires collaborative platforms (expertise, infrastructure, resources) of the EDRN.

Are plans for collaborations provided for research objectives?

To what extent are these collaborations necessary for the successful completion of the research plan? Only projects of collaborative nature are to be supported through the restricted funds.

Do the proposed experiments take advantage of unique features of the EDRN scientific environment and incorporate the best use of collaborative arrangements?

Will this team of investigators contribute unique skills to the proposed project?

Do the investigators state their willingness to collaborate and share information?

Are there adequate plans for effective interaction and coordination with the Network components, such as the SC, the DMCC, or the NCI?

In case of genomic and proteomic profile studies, investigator will be required to post data on the EDRN Secure Portal.

3. Portfolio Analysis: (for program review only)

NCI program staff will evaluate each application relative to other research projects being conducted within EDRN to ensure there is a fair representation of technologies and cancer types. Under or over representations will be included in determining the final recommendation. In addition, proposal will be reviewed for:

Does the proposal compete against any already funded approach within the EDRN systems? If so, what is the added value?

Does the proposal fall under the NCI's Strategic Initiatives? To what extent is it supported by any other program, such as IMAT?

#### 4. Budget:

The applicant's budget must be justified in light of the scope of the work and must not exceed the set-aside [Program is to keep track of this amount]. The reviewers may recommend a budget less than the set-aside.

#### 6.2.5. Application Requirements for Use of Core Funds

Requests for Core Funds can be made by EDRN investigators to conduct collaborative projects involving and focusing on EDRN objectives, to advance current projects toward validation, or to conduct a Validation Study. Budgets must not exceed \$100,000 unless sufficient justification is provided, or for an approved large validation study. Adequate budgetary information should be provided to justify proposed spending. Applications for Core Funds are accepted the first week of each month and are reviewed during monthly EC calls held the last week of the month.

EDRN investigators applying for funds to conduct collaborative projects must complete both the EDRN Study Proposal Application Form and a proposal following the format of PHS Form 398 as described in Section 6.2.3. Applicants for Associate Membership need only submit a proposal following the format of PHS Form 398 (see Section 6.2.3). All projects must comply with institutional regulations on research involving human subjects, children, minority groups, gender, animals, recombinant DNA, and hazardous materials. Appropriate approvals from the relevant committees, including approval from Institutional Review Boards, must be submitted to the NCI EDRN Program Office before funds can be provided.

#### 6.2.6. Review Process for Applications for Release of Core Funds

The EDRN Standing Review Group will review all Associate Membership applications. The EDRN EC will perform an accelerated review of applications for Associate Membership (Category C) that do not seek funds from EDRN. The EC will review Validation Proposals and other collaborative projects that seek Core Funds or may seek advisement from the relevant Collaborative Group on the merit of the proposal prior to its discussion at the EC. If necessary, it will appoint an ad hoc committee that will include at least one member from the appropriate Collaborative Group. The specific criteria used to evaluate proposals for use of Core Funds are listed in the section above, Section 6.2.4. The review process is described below:

- 1. Ten copies of Associate Member applications received by the receipt date are forwarded from the NCI EDRN Program Office to the members of the EDRN Review Group within a week after the application receipt date.
- 2. The EDRN Standing Review Group evaluates Associate Member applications in a telephone conference call, and then scores the applications via a secure online review process on the EDRN secure website. The NCI EDRN Program Director is able to read all reviewers' comments and consolidates them. The evaluation and compilation of comments is expected to be completed within one month following the application receipt date. After compilation of comments, the EC members are notified that consolidated comments and scores are ready for their review.
- 3. The Executive Committee renders final approval of the reviewed proposals, informs the Steering Committee of successful applications, and submits the recommendations to the NCI EDRN Program Office.
- 4. The EDRN Chair's institution contacts NCI Grants Administration Branch by letter, requesting approval to release the restricted funds. Once the NCI Grants Administration Branch receives all approvals, NCI authorizes the release of funds.

#### 6.2.7. Additional Information for Validation Study Proposals

Progress of a biomarker to a validation study is a critical step in the development of a biomarker and is, therefore, a critical part of EDRN. Due to the importance of the step and the fact that funding needs are likely to be large, the application process has some additional requirements to those of Associate Members. Applicants are encouraged to submit their validation study proposal to the relevant collaborative group and seek their concurrence before the EC reviews their proposal. The differences are described below:

#### 1. Pre-proposal:

A pre-proposal/letter-of-intent, limited to 3 pages, must be submitted to the appropriate Collaborative Group Chair or directly to the EC. Validation Studies are collaborative, therefore, the pre-proposal must name the EDRN sites which will be included as part of the collaboration. A Biomarker Reference Lab and the Data Management and Coordinating Center must be consulted for all Validation Studies. A Clinical Epidemiology and Validation Center should be included as needed.

The Collaborative Group Chair will disseminate the pre-proposal amongst Collaborative Group members for discussion and recommendation. Applications submitted directly to the EC may be reviewed by the EC or referred to the appropriate Collaborative Group for review. If approved by the EC, the submitting investigator will be asked to complete a full proposal as described below and submit it to the NCI EDRN Program Office.

#### 2. Proposal:

Once the pre-proposal is approved by the EC, the investigator contacts a Biomarker Reference Lab, Data Management and Coordinating Center, and/or Clinical Epidemiology and Validation Centers, as appropriate for collaboration, and develops a full proposal with them. The full proposal should be prepared as described in Section 6.2.3 with the exception that it should not exceed 10 pages rather than 3 pages. A

detailed background and rationale are not necessary but presentation of preliminary data is required.

Full proposals are submitted to the NCI EDRN Program Office. The full proposal is evaluated by EC or appointed ad hoc committee and external reviewers (non-EDRN members). The remaining steps for the Validation Study review process are the same as steps 3 & 4 in Section 6.2.6.

# EDRN Validation Studies and Use of Validation Labs

**EDRN** Investigator **NCI EDRN Program EDRN Executive Committee** Step 1 Step 2 Submit pre-proposal EC Review to Collaborative of Pre-Group or to EC with proposal LOI Success Step 4 Need Establish collaboration Step 3 with DMCC, NCI and More **EC** Decision **Participating Sites** Data •Gather more data Step 6 Step 5 Resubmit NCI Develop biomarker Shelved to EC distributes validation proposal Appeal to funds submit to NCI EC

### **Application Process**

Step 1. An EDRN Principal Investigator (PI) shall notify relevant Collaborative Group or EC of biomarkers that may be ready for validation studies through a preproposal or letter of intent (LOI).

<u>Step 2.</u> The Collaborative Group or EC reviews proposal.

Step 3. If the EC recommends a proposal be submitted, the PI shall establish collaboration with DMCC and Participating Sites. If more data is needed, gather more data and resubmit or appeal.

<u>Step 4</u>. The PI, DMCC, NCI and Participating Sites develop and finalize protocol.

<u>Step 5.</u> NCI receives final protocol
<u>Step 6.</u> NCI distributes funds

#### **6.3 EDRN Informatics**

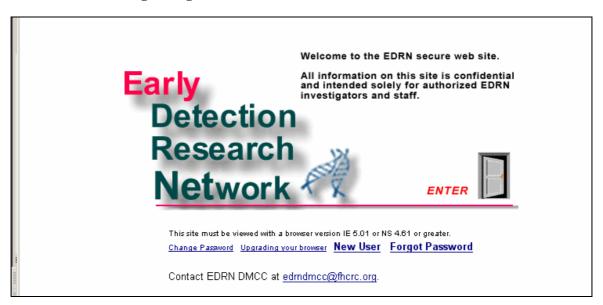
#### **6.3.1. EDRN Secure Website**

#### **6.3.1.1** Overview

The Data Management and Coordinating Center (DMCC) is responsible for developing and maintaining a secure website for EDRN. The website contains general EDRN information such as contact information for all participating institutions, committee and subcommittee membership, upcoming events, etc., as well as items that are less public such as data from collaborative studies, approved validation proposals, paper drafts, etc. Due to the sensitive nature of some of the information available on the secure website, only people approved by an EDRN member have access to the website. Access to the website requires a log-in and password distributed by the DMCC.

A website user's guide is provided in an Appendix.

#### 6.3.1.2 Obtaining A Log-In And Password



In order to obtain access to the secure website, one must complete the Application for EDRN Secure Web Site Access (see http://www.compass.fhcrc.org/enterEDRN/) and FAX the completed form to the DMCC Project Manager at 206-667-5964. The application form must be signed by an EDRN Principal Investigator. Once the application is processed at the DMCC, the applicant is sent a log-in via email and a password via post mail. The log-in name generally consists of the applicant's first name initial and entire last name.

#### 6.3.1.3 Passwords and Security Issues

Once an applicant receives their password, the DMCC recommends changing the password immediately. A user can change their password at any time by clicking on "Change

Password" at the bottom of any page on the website. For security reasons, passwords for the EDRN secure website must be at least 8 characters long; the DMCC recommends using a combination of alphabetical and numeric characters. The DMCC also recommends that public personal data (e.g. name, birthday) should not be used in passwords. Log-in IDs and passwords should also be kept in a safe place. To maintain compliance with the DMCC's IRB, you may not share your password or log-in.

Each user's password will expire every four months. If a person enters his/her log-in and the password has expired, s/he is prompted to change the password at that time. A log-in will lock after three failed attempts and then reset itself in 30 minutes. If this happens, please wait 30 minutes and then try to log into the web site again.

#### **6.3.2.** Common Data Elements (CDEs)

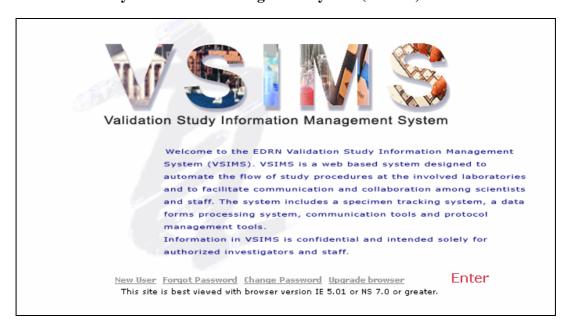
The EDRN Common Data Elements (CDEs) are composed of three main components: the exact wording of the questions used to collect data, all possible responses to the questions, and the data format for sharing and/or transmission of the data within EDRN. The CDEs will standardize data that is collected and stored at all sites to ensure consistency in data and specimen sharing.

Any EDRN sites collecting new prospective data for EDRN studies are required to use the EDRN CDEs.

Currently there are three categories of CDEs that have been developed to varying extents for EDRN. The first is the Core CDEs. The Baseline and Follow-up Core CDEs are comprised of a participant ID, protocol ID, site IDs and basic epidemiologic data relevant to EDRN. The Core Specimen CDEs include the specimens that are collected from a participant at each specimen collection date. The next category of CDEs is the Specimen type-specific CDEs and includes information on the processing and storing of the specimens that were collected. The last category is Organ-specific CDEs and consists of data elements important for organ-specific studies. The development of the Organ-specific CDEs requires the participation of the Collaborative Groups.

The CDE tools created by the Data Management and Coordinating Center (DMCC) enable sites to view all existing groupings of CDEs on forms, create and modify their own groupings on forms, and view all the information associated with the EDRN CDEs.

#### 6.3.3. Validation Study Information Management System (VSIMS)



Validation Study Information Management System (VSIMS) allows for the efficient and secure collection and management of information for all EDRN Validation Studies. VSIMS is a secure web-based system that is designed to automate evaluation of eligibility criteria and data collection, transfer data, track specimens, serve as a resource for study-specific information, facilitate communication across multi-center studies, track data queries and resolutions, and allow administrative management of studies. The ability of the system to adapt to different sets of business criteria and workflows allows information to be stored separately for each study allowing multiple studies to be coordinated centrally through the same data management system framework. The greatest strength of the system lies in its flexibility and ease in making changes, enabling several Validation Studies to be simultaneously or consecutively implemented and managed in a timely manner.

#### **6.3.4.** EDRN Catalog and Archive Service (eCAS)

The EDRN Catalog and Archive Service (eCAS) supports the capture and distribution of the published science data acquired during a validation study. The eCAS infrastructure will satisfy several EDRN informatics goals, including:

- Acquisition of published science data from multiple EDRN validation studies
- Software interfaces for sharing of data across biomedical applications
- Secure transfer and distribution of data to the science community
- A common information model for describing EDRN science data
- A web-based interface to search and download EDRN science data

The EDRN Informatics Working Group is currently prototyping the eCAS to validate these goals. The prototype demonstrates how data acquired locally at institutions can be archived using the EDRN common information model and then distributed to scientists nationally through the EDRN Public Portal. Participating EDRN sites will also be able to catalog their science results remotely with the eCAS system via the Public Portal. The common science portal will provide access to all published EDRN science data enabling distribution to a broad range of users using a well-defined security access policy.

#### 6.3.5. Public Portal

The principal focus on the EDRN Public Portal is to raise the awareness of the EDRN by the public through a web portal. It provides an online mechanism to distribute information and results from the EDRN to the public. This includes news, announcements of opportunities, availability of online data sets, information about EDRN studies, access to various EDRN resources, and overall information about the EDRN program. The Public Portal also serves as a gateway to other EDRN tools including eCAS and ERNE. It provides a publishing capability so that new information can be easily reviewed and published to the portal.

#### **6.3.6.** EDRN Resource Network Exchange (ERNE)

EDRN has deployed the EDRN Resource Network Exchange (ERNE) to ten institutions providing a common web-based client interface. ERNE unifies search and retrieval of biospecimen data from all institutions regardless of where it is located, how it is stored, or the differences in the underlying data models. This enables a scientist, for example, to locate tissue specimens for breast cancer by searching data catalogs at participating institutions across the country.

As the knowledge system evolves, the governing CDE model and the use-cases derived in the working groups will be used to drive the relationships between the data sets enabling discovery through data mining. Scientists, for example, will be able to query an assay result from a validation study and then find the associated specimens that were collected as part of that assay.

#### SECTION 7 EDRN PROGRAM EVALUATION

#### 7.1 Metrics for Evaluation

#### 7.1.1. Objectives

It is the responsibility of the awarding agency, in this case the National Cancer Institute (NCI), National Institutes of Health, to review progress achieved towards scientific goals in original grant applications over specified grant periods and to provide scientific and logistical input to grantees to enhance the quality of their scientific efforts. For details, see HHS 45 CFR, Part 74. To review progress towards achieving the objectives of the Early Detection Research Network (EDRN) and its investigators, it is imperative for EDRN program officials to gather information on the functioning of the network in order to update the NCI leadership. This document describes metrics, rationale, and standards for evaluating the overall success of the EDRN.

#### 7.1.2. Introduction

Fair, rigorous peer review of investigator-initiated scientific applications remains the cornerstone of scientific progress in the United States. Peer review has ensured that the best science is supported. The EDRN was initiated with this concept in mind. By selecting scientific collaborators for the EDRN on the basis of rigorous peer review and fully funding the best applications, the NCI has successfully obtained strong participation from the scientific community.

The EDRN represents a major pioneering effort in collaborative translational research. It departs from prior Cancer Cooperative Group models in many important ways - through empowering investigators by funding their Centers directly and by placing the burden of scientific leadership, research agenda, and collaboration upon these directly funded Centers. Basic scientists with robust bench research records have been funded to pool their ideas, resources, and tools. Translational and epidemiologic investigators with strong tools and publication track records are directly funded with a mandate to translate concepts arising from basic science labs. Analytical tools, laboratories, statistical methods, and informatics are also supported directly with a collaborative mandate. Leadership of this collaborative must emanate from the grass-root investigators, and the Executive Leadership must communicate with a highly knowledgeable group of scientists in a manner that enhances collaboration and productivity. This Network represents a new paradigm of Cooperative research.

#### 7.1.3. NCI Charge to the EDRN

At the opening meeting of all of the funded EDRN units, NCI leadership and Program Staff provided the following charge for this collaborative enterprise:

- Establish criteria for the discovery and validation of biomarkers at all points of the integrated research scheme;
- Establish a rigorous quality assurance/quality control program for biomarkers;

- Establish and deal with issues of biorepositories -- how the samples will be obtained, stored and most importantly, allocated;
- Support Translational Research Projects-both within and outside the EDRN and establish policies and procedures that are inclusive of investigators who wish to utilize the infrastructure and facilities of the EDRN;
- Establish and foster industrial collaborations which will be crucial to the ability to rapidly translate the research effort into products and to test innovative biomarkers being developed by industry;
- Establish and maintain effective and efficient communications, including the use of EDRN websites (public and private), listservs, email, and regularly scheduled meetings;
- Develop and maintain an effective, efficient, and productive management domain with minimal committee structure and maximal collaboration, with financial rewards for collaboration;
- Encourage inclusiveness by ensuring that scientists with promising research ideas get the opportunity to collaborate constructively with the EDRN.

#### 7.2 Evaluation Metrics

Since there are no prior models of such a cooperative research enterprise, it is very important to carefully monitor and assess progress from both macro and micro perspectives. This review will be particularly important during the first grant period in which substantial administrative effort should be expended in order to build the new infrastructure. The following evaluation metrics are suggested.

#### 7.2.1. For the Individual Laboratory and Center

#### 1. Scientific Excellence

Quality of Questions: Has the EDRN site clearly defined their objectives, hypotheses, and scientific plan?

Scientific Progress to Date: Has the EDRN site made progress towards meeting these objectives as specified in their originally funded research plan? What pitfalls have been encountered and how have they been managed?

Innovation: How has the EDRN site used innovation to overcome obstacles? Is the site aware of new methods or approaches that might be useful to or portable into the EDRN environment?

Future Plans: What does the site plan to do over the coming two years? How will these plans meet the original grant objectives?

#### 2. Productivity Metrics

Publication productivity: Has the site published papers on the objectives funded by the EDRN? How many and in what Journals? If not, are there problems that need to be addressed or require assistance?

Grant funding: Has the site applied for additional grant or contract funding? Has the site team been successful in gaining additional funds? Has the EDRN been helpful to the success of funding these new grants or contracts?

Biomarkers identified (BDLs): Number of new biomarkers pursued for evaluation? Number of biomarkers sent forward to CEVCs or BRLs for validation? Number of biomarkers added to early detection or risk assessment panels? Number of biomarkers used in chemoprevention clinical trials?

Assays performed (BRLs): Numbers of assays developed for EDRN projects? Numbers of samples processed? Types of samples processed? Results reported? Quality control of samples assayed? Number and type of development projects approved? Use of CDEs?

DMCC: Standards of informatics support? Type of informatics, QC procedures, patient privacy protection measures, data storage, and retrieval systems for Validation Studies? Development of Network-wide communication systems? Development of Network-wide systems to promote data and specimen sharing? Development of statistical methodology to meet the needs of EDRN?

Samples collected and provided (CEVCs): Numbers of samples collected? Types of samples collected? Sources of samples collected? Numbers of samples provided to EDRN BDLs or BRLs? Use of CDEs? How many CEVCs have had their set-aside funds released? How many CEVCs have requested the release of Developmental funds?

#### 3. Collaborative Metrics

EDRN collaborations: With whom is the EDRN site collaborating? How many projects are collaborative? How many joint papers have been published? Use of EDRN resources: Has the EDRN site collaborated with CEVCs, a BRL or BDL site? If so, how many? Joint publications? Joint grants? How many BDLs have requested release of their restricted funds for Network Collaborative Studies?

Participation in EDRN Activities: Attendance from the site at EDRN meetings. Participation on Committees, working groups, and task forces? Special EDRN projects completed. Did EDRN site participate in developing the CDEs? Did EDRN site help to standardize/streamline the IRB approval process? Did EDRN site help develop systems for streamlining data sharing and/or specimen sharing? Did EDRN site help develop systems to standardize/streamline technology transfer issues?

EDRN outreach: Number of new Associate Members from the outside? Amount of core funds allocated to new Associate Members? The number of applications for core funding? Other outreach activities?

#### 7.2.2. Process for Evaluating Metrics

#### 1. Annual written progress report

Reviews should be based upon the yearly progress report required for non-competitive renewal. Instructions for preparation of the non-competitive renewal should be specific and emphasize progress towards scientific goals of the original grant application and progress towards addressing EDRN's mission. While scientific quality and progress need to be recorded and addressed, primarily, metrics should be required to allow NCI staff to report data to NCI leadership.

The review process should assess the progress of each of the funded units towards meeting the specific aims of their funded grant application and their progress and contributions in meeting the above-described charges for the entire group. While the review is structured to provide NCI leadership and staff with data to track the progress of the EDRN and its components, equally important goals are to provide constructive feedback to EDRN Principal Investigators and their collaborators. Reviews may be used by EDRN leadership, NCI staff, and the Network Consulting Team to make mid-course changes or to encourage constructive changes in individual scientific direction or focus. Initial reviews might assist in building collaborations among investigators and their groups. Reviews may also be used to assess administrative progress, to quantify publications and grants, and to quantify numbers of subjects studied.

#### 2. Site Visits

Each Center/Laboratory should be site visited by a panel comprised of external consultants (individual members of the Network Consulting Team), NCI staff and other experts on an as needed basis. The site visit should be brief (preferably a half day or less) but enable a thorough review of scientific progress, future scientific plans, performance metrics, facilities and staff in support of the EDRN charge. The site Principal Investigator would provide a 2-3 hour presentation period to review scientific progress, spell out new scientific initiatives for EDRN research, and address required metrics. The Principal Investigator should be encouraged to share problems, concerns, and questions to the site visit team so that the process is interactive and collegial. While an agenda and presentation should be necessary, no scoring should be used.

#### 3. Frequency of Site Visits

The frequency of the site visits will be determined by the NCI. However, it is anticipated that one initial site visit by NCI program officials will occur in year one, and one midgrant site visit (for a five-year grant) will occur between year 2 and year 3. Additional site visits may be required when deemed necessary by the NCI.

Deficient performance and remedies will be conducted in accordance with HHS 45 CFR, Part 74 and other pertinent regulations.

4. At time of Type 5 renewal each site must submit their Site Task Reminder list generated from the EDRN Secure Website. In addition each site must submit a copy of each of their individual reports (publications, specimen survey, research interests, and registered protocols).

# 7.3 Overall Evaluation of Early Detection Research Network

It is the intention of the NCI that the members of the Network Consulting Team and Chairs and Co-Chairs of the EDRN Steering Committee will discuss the overall performance of the EDRN using the metrics presented in this document and suggest changes/modifications in the working structure of EDRN for the next five-year cycle.