Thank you for taking time to respond to the survey sponsored by The Endocrine Society. The society recognizes your time is valuable and appreciates your participation in the project.

**Instructions:**
The survey is expected to take about 12 minutes. If you chose to stop the survey, lose your connection to the internet, or if your computer shuts down you can resume where you left off. You will be offered an option at the bottom of this page to finish later. The link you were sent in your e-mail and the link you get by clicking "Finish Later" will both take you right to where you left off.

**Benefits for participation:** All clinical endocrinologists, early in their careers, are asked to complete this survey. The aggregated results will be sent to you via email. The results will be published in a peer-reviewed journal to provide reference information for you to assess your career relative to that of peers in endocrinology. You may also find the results useful in advising medical students, residents, and fellows who are interested in pursuing an investigative career in clinical endocrinology.

The results will also assist The Endocrine Society identify gaps in training clinical endocrinologists, spot investigative disparities in clinical endocrinology, and advocate new approaches to support innovation and discovery in clinical endocrinology.

**Informed consent:**
Permission to distribute this survey to members of The Endocrine Society has been granted by the Council of The Endocrine Society, 8401 Connecticut Avenue, Suite 900, Chevy Chase, MD 20815, (www.endo-society.org); and by the Office for the Protection of Research Subjects, 203 Administrative Office Building, University of Illinois at Chicago, Chicago, IL 60612. www.research.uic.edu.

**Survey director:**
Questions or concerns about this survey should be addressed to: Claude Desjardins, Director of Clinical Scholars Project, University of Illinois Medical Center, Chicago, IL 60612-4325. Tel: 312-355-0916, clauded@uic.edu.

**Confidentiality:**
All answers to questions in this survey are confidential. No information will be attributed to you, none of your responses will be disclosed to your employer and/or institution, and none of the research conducted or published will divulge the responses made by an individual physician. All published data will appear as arithmetic means with a minimum of five data points per mean.

**Privacy:**
Your privacy will be maintained in all published and written information related to this survey. Neither your name nor e-mail address will be revealed, for any reason, as a result of taking part in this survey.

**Security:**
Your responses to this survey will be encrypted and directed to a secure socket layer, a protocol used by on-line merchants to secure connections from desktop computers across the internet. Respondent data will reside, behind a firewall, in a coded format at the Survey Research Institute, Cornell University, Ithaca, NY (http://www.cornellsurveyresearch.com).
Rights of participants: Your participation in this survey is entirely voluntary. You may stop the survey at any time and return where you left off. You are free to leave any question unanswered.

Eligibility: The survey is limited to members of The Endocrine Society, early in their careers.

Agreement to participate: I understand the aims of this survey and agree to participate.

☑️ [consent] I Agree

If you do not consent to participate in the study, please exit by closing your browser now.

Continue To Survey

© 2007

If you have questions or require technical assistance with this survey, please email the Survey Research Institute or call 1-888-367-8404.
[cur] Do you currently hold a license to practice medicine in the US and/or Canada?

- [ ] Yes
- [x] No

[q1] Please indentify the primary state/province where you hold a license to practice medicine.

--- Select ---
I. Workplace Overview

The first set of questions is designed to obtain information about where clinical endocrinologists are employed, and their opportunity to pursue clinical research. Your responses will be used to develop a national profile of employment options for clinical endocrinology and to identify the scope of clinical studies associated with each employment sector.

[q18] Select your primary place of employment.

If you hold/held a faculty position, where you are expected to do research, please estimate the total amount of money you received from your department/institution to start-up your clinical research project? Estimate total dollars (nearest $ 1,000) that you received over the first three years of your appointment for each category listed below:

[q36a] $ for salary
[q36b] $ for personnel and equipment
[q36c] $ for access to institutional core services/facilities needed for your research project (e.g., statistical consultation or data support, research coordinators, MRI, etc)

[q19] Is this your first faculty position/appointment since completing fellowship?

○ Yes  ○ No

[q20] Prior to taking your current faculty position, how many years elapsed since your fellowship training was completed?

--- Select ---
1 year or less
2 years
3 years
4 years
5 years
6 years or more

[q21] Does your employer/institution grant tenure?

○ Yes  ○ No  ○ Not applicable (fellows, self-employed or industry)

[q22] Are you eligible for tenure in your current position/appointment?

○ Yes  ○ No
[q23] Please identify the salary range that best describes the total compensation your employer paid you last year (2007) before taxes.

[478x721] -- Select --
less than $49,999
$50,000 - $74,999
$75,000 to $99,999
$100,000 to $124,999
$125,000 to $149,999
$150,000 to $174,999
$175,000 to $199,999
$200,000 to $224,999
$225,000 to $249,999
$250,000 to $274,999
$275,000 to $299,999
$300,000 and above

[q48] Do you earn additional income from consulting, moonlighting or receive money from a partner or a family member to repay loans taken out to attend college and/or medical school?

☐ Yes  ☐ No

If you have questions or require technical assistance with this survey, please email the Survey Research Institute or call 1-888-367-8404.
II. Research Interest and Opportunities

The second set of questions examines the opportunities you had to pursue research. Your responses will be used to develop a profile of research opportunities available to clinical endocrinologists.

[q27] As a first year medical student was clinical research among the possible options you considered for a productive and rewarding career in medicine?

- Yes
- No
- Not applicable, I earned an MS or PhD before earning an MD degree
- Not applicable, I was an MD/PhD student or committed to a basic/clinical research project

[q28] As a resident was clinical research among the possible options you considered for a productive and rewarding career in endocrinology?

- Yes
- No
- Not applicable, I earned an MS or PhD before earning an MD degree
- Not applicable, I was an MD/PhD student or committed to a basic/clinical research project

[q53] As a resident were you coached or encouraged to consider a clinical research project?

- Yes - strongly encouraged
- Made aware, but no significant encouragement
- Neutral, just not discussed
- Not relevant because of prior research experience or a commitment to a basic or clinical research project

[q29] When you entered fellowship training in endocrinology was clinical research a realistic option for a productive and rewarding career?

- Yes
- No
- Not relevant because of prior research experience or a commitment to a basic or clinical research project

[q30_new] As a fellow were you coached or encouraged to consider a clinical research project?

- Yes - strongly encouraged
- Made aware, but no significant encouragement
- Neutral, just not discussed
- Not relevant because of prior research experience or a commitment to a basic or clinical research project
[q49] Take a moment to think back to your experience as a college student, medical student, resident, and fellow. Did you ever spend 10 weeks at 8 hr/wk or more on any type of research project at any one of these times? [Skip this question if you earned an M.S. or Ph.D. degree before or after attending medical school]

⊙ Yes ⊙ No

Please estimate the number of months you participated in a lab-based or clinical research project when you were a:

[55x675] No of months at 8 hr/wk or more on research

[q50a] College student
[q50b] Medical student
[q50c] Resident
[q50d] Fellow

Please take a moment to think about the opportunities you had to identify a faculty mentor to sponsor a laboratory or patient-oriented research project. Were the options to seek out faculty mentors well advertised in announcements made at meetings, conferences or web-sites when you were a... (Please check all that apply, but skip this question if you earned an M.S. or Ph.D. degree before or after attending medical school)

[q51a] Medical student? ⊙ Yes ⊙ No
[q51b] Resident? ⊙ Yes ⊙ No
[q51c] Fellow? ⊙ Yes ⊙ No

Based on your experience so far as a clinical endocrinologist, what do you perceive as the most important shortcomings to pursuing a career involving clinical investigation. Please specify your level of agreement with each statement.

[q30a] Clinical researchers are under compensated relative to colleagues who devote most of their professional activity to providing clinical care.

-- Select --
Strongly Agree
Agree
Neither Agree nor Disagree
Disagree
Strongly Disagree

[q30b] Faculty positions in medical schools and teaching hospitals are unattractive relative to private practice because of the expectation to obtain research grants/contracts and produce publications.

-- Select --
Strongly Agree
Agree
Neither Agree nor Disagree
Disagree
Strongly Disagree

[q30c] The time commitment and intellectual energy required for a successful career as a clinical investigator are simply too burdensome compared with that required for a successful career providing clinical service.

-- Select --
Strongly Agree
Agree
Neither Agree nor Disagree
Disagree
Strongly Disagree
The job security for clinical researchers in a medical school or teaching hospital is comparable to that of endocrinologists who engage in private practice.

The total debt I incurred as an undergraduate and medical student was so burdensome I pursued a career as a clinical care provider to alleviate financial burdens.

If you have questions or require technical assistance with this survey, please email the Survey Research Institute or call 1-888-367-8404.
II. Research Interest and Opportunities... continued

Sustaining medical progress in all disciplines, including endocrinology, requires a steady investment in clinical innovation and discovery.

[q31a] Do you perceive that the nation’s long term commitment to fund clinical research in clinical endocrinology is being accomplished:

- At about the correct level
- Below the level needed to advance clinical practice
- Well above the level needed to sustain medical progress in endocrinology

[q31b] As an endocrine fellow, did you have the option of pursuing a basic/clinical research project if you wished to do so?

- Yes
- No
- Not applicable

[q31c] If you elected to pursue a basic/clinical research project, were you allowed to choose a mentor/project outside of the section or division of clinical endocrinology?

- Yes
- No
- Not applicable

[q31d] If you elected to pursue a clinical research project involving human subjects, did your institution make it possible for you to obtain high quality administrative support to prepare an IRB protocol even if you did not have external funding for the proposed project?

- Yes
- No
- Not applicable

[q31e] If you elected to pursue a clinical research project involving human subjects, did you have access to high quality support for data acquisition and the statistical analysis of results even if you did not have external funding for the proposed project?

- Yes
- No
- Not applicable

[q31f] If you elected to do a laboratory-based research project would you have access to institutional core resources for reliable, high quality expertise for technical service for spectroscopy, molecular testing, etc. even if you did not have external funding for the proposed project?

- Yes
- No
- Not applicable

[q31g] As a resident or fellow, were you offered assistance with the preparation of a proposal to obtain funding for an individual research training award or a research grant such as those sponsored by a foundation or federal agency? Examples include grants from the American Diabetes Association, Burroughs Wellcome Fund, Doris Duke Foundation, an NIH-F32 award (Ruth Kirschstein Award), or an NIH K-award?

- Yes
- No
- Not applicable
III. Profile of clinical research in endocrinology.

The third series of questions are designed to obtain information about your involvement in basic/clinical research. Your responses will be used to develop a national perspective of the scale and scope of research in endocrinology.

[q33] Are you currently involved in basic/clinical research?
- Yes
- No

Please designate one or more lines of investigative work that best fit the research you have done over the past 12 months: (Please check all that apply)

- [q34a] Basic research: involves laboratory-based research including the development of new drugs, technologies, or devices.
- [q34b] Translational research: entails bench to bedside or bi-directional research involving human subjects known to the investigator. Excludes the use of human specimens--cells/tissues--for laboratory-based studies.
- [q34c] Disease-oriented research: use of human subjects to investigate the mechanisms or natural history of disease, improve the detection or diagnosis of a disease, and develop therapeutic interventions.
- [q34d] Patient-oriented research: clinical trials, including Phase I, II, III trials of drugs, and biologics, tests of devices, and the evaluation of therapeutic interventions.
- [q34e] Population-oriented research: includes outcomes studies of populations, health services and cost effectiveness research, studies of health quality including best practices and medical errors, epidemiology and genetic studies, and community-based clinical trials.
- [q34f] Prevention-oriented research: primary and secondary prevention of disease in patients, and health promotion via education or behavioral change.

[q24] What fraction of a 40 hr week did your institution/supervisor expect you to devote to research in the past 12 months?
- None
- One half day/wk
- Two half days/wk
- Three half days/wk
- Four half days/wk
- Five half days/wk
- Six half days/wk
- Seven to eight half days/wk
- Nine to ten half days/wk
Identify the source(s) of money used to cover your salary for time spent on clinical research listed above: (check all that apply)

☐ [q25a] Clinical income (direct or indirect sources of income)
☐ [q25b] Medical school
☐ [q25c] Hospital
☐ [q25d] Grant/gift (from any source outside your institution)
☐ [q25e] Federal Government including military and VA
☐ [q25f] Endowment
☐ [q25g] Personal income
☐ [q25h] Other source

[q24_new2] Did you spend time on a research project in the last 12 months by working 'off-the-clock' such as evenings or weekends?

☐ Yes  ☐ No

Estimate the average hours/week - of off the clock time - you spent on a clinical research project in the past year.

[q24_new3] Enter average hours/week:  

[q24_new4] Did you produce a peer reviewed publication in the past 24 mo based on your 'off the clock' commitment to clinical research?

☐ Yes  ☐ No

[q47] Do you have medical students, residents or fellows who pursue research projects under your direction or supervision?

☐ Yes  ☐ No

When you are not engaged in research...

[q26a] How many half days/wk do you devote to providing clinical care?  
[q26b] How many half days/wk do you devote to teaching medical students/residents/fellows?  
[q26c] How many half days/wk do you devote to administrative work?

Total # of half-days you have entered: 0

[q33a] At what stage of your training did you decide to include clinical research as part of your career goal:

☐ undergraduate  ☐ medical school  ☐ residency  ☐ fellowship  ☐ post fellowship or new faculty
Please review the awards listed below. Designate those you applied for, and specify whether an award was made.

<table>
<thead>
<tr>
<th>Application</th>
<th>Application</th>
<th>Award made</th>
</tr>
</thead>
<tbody>
<tr>
<td>[q34new_1a/q34new_2a] ENDO Abstract Awards and Travel Grant</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>[q34new_1b/q34new_2b] Endocrine Society Research Bridge Grant</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>[q34new_1c/q34new_2c] Clinical Investigators Workshop for Trainees</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>[q34new_1d/q34new_2d] Summer Research Opportunity Program for Minority Students</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>[q34new_1e/q34new_2e] Medical Student Achievement Award</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>[q34new_1f/q34new_2f] FASEB Summer Research Conference Travel Grant</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>[q34new_1g/q34new_2g] Lilly Endocrine Scholars Award</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>[q34new_1h/q34new_2h] Summer research fellowship</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

If you have questions or require technical assistance with this survey, please email the Survey Research Institute or call 1-888-367-8404.
III. Profile of clinical research in endocrinology... continued

[q37] Have you ever prepared/submitted an application to The Endocrine Society, a federal agency or a foundation to obtain additional training to pursue basic or clinical research in endocrinology in either your current or former position?

☐ Yes  ☐ No

Please list the number of applications you submitted to gain additional training in basic or clinical research. [Note applications for K-awards are made to advance "training" for a research career.] List the number (1, 2, etc.) of new or revised applications you submitted to one of the following agencies:

[q38a] NIH-National institutes of Health

[q38b] CDC-Center for Disease Control

[q38c] FDA-Food and Drug Administration

[q38d] Other agencies within the US Department of Health and Human Services

[q38e] DOD-Department of Defense

[q38f] VA-Department of Veterans Affairs

[q38g] Industry (pharmaceutical/biotech)

[q38h] Philanthropy (e.g., American Diabetes Association, Doris Duke Foundation, Burroughs Wellcome Fund, professional medical societies, etc.)

[q38i] Other [q38_oth] (please specify):

[q39] Have you ever submitted a grant application to get funding from a federal agency or foundation for a basic or clinical research project in your current or former position?

☐ Yes  ☐ No
Please specify the number of applications/proposals you submitted to obtain support for a research project. List the number (1, 2, etc.) of new or revised applications you submitted as PI to each of the following agencies:

[q40a] NIH-National institutes of Health
[q40b] CDC-Center for Disease Control
[q40c] FDA-Food and Drug Administration
[q40d] Other agencies within the US Department of Health and Human Services
[q40e] DOD-Department of Defense
[q40f] VA-Department of Veterans Affairs
[q40g] Industry (pharmaceutical/biotech)
[q40h] Philanthropy (e.g., American Diabetes Association, Doris Duke Foundation, Burroughs Wellcome Fund, professional medical societies, etc.)
[q40i] Other [q40_oth] (please specify): ____________________________

Please specify the number of research grants you have received as PI to support a basic or clinical research project in basic or clinical endocrinology. List the number of grants (1, 2, etc.) awarded by each agency:

[q41a] NIH-National institutes of Health
[q41b] CDC-Center for Disease Control
[q41c] FDA-Food and Drug Administration
[q41d] Other agencies within the US Department of Health and Human Services
[q41e] DOD-Department of Defense
[q41f] VA-Department of Veterans Affairs
[q41g] Industry (pharmaceutical/biotech)
[q41h] Philanthropy (e.g., American Diabetes Association, Doris Duke Foundation, Burroughs Wellcome Fund, professional medical societies, etc.)
[q41i] Other [q41_oth] (please specify): ____________________________

[q42] Have you ever participated in the submission of a research grant application as a CO-PI?

☐ Yes  ☐ No
If you were the CO-PI on an application to gain funding for a basic or clinical research project, please list the number (1, 2, etc.) of new or revised applications submitted to each of the following agencies:

[q43a] NIH-National institutes of Health
[q43b] CDC-Center for Disease Control
[q43c] FDA-Food and Drug Administration
[q43d] Other agencies within the US Department of Health and Human Services
[q43e] DOD-Department of Defense
[q43f] VA-Department of Veterans Affairs
[q43g] Industry (pharmaceutical/biotech)
[q43h] Philanthropy (e.g., American Diabetes Association, Doris Duke Foundation, Burroughs Wellcome Fund, professional medical societies, etc.)
[q43i] Other [q43_oth] (please specify):

Please specify the number of grants that have been funded where you serve as a CO-PI. List the number of grants (1, 2, etc.) awarded/funded by each agency:

[q44a] NIH-National institutes of Health
[q44b] CDC-Center for Disease Control
[q44c] FDA-Food and Drug Administration
[q44d] Other agencies within the US Department of Health and Human Services
[q44e] DOD-Department of Defense
[q44f] VA-Department of Veterans Affairs
[q44g] Industry (pharmaceutical/biotech)
[q44h] Philanthropy (e.g., American Diabetes Association, Doris Duke Foundation, Burroughs Wellcome Fund, professional medical societies, etc.)
[q44i] Other [q44_oth] (please specify):
[q45] Would you be willing to take part in a similar survey sometime in the future?

- Will participate
- Will Not Participate

[q46] Please add any comments you wish to make about this survey. Your comments will be used to improve the survey protocol for other clinical scholars.
IV. Demographic Background

The fourth series of questions are designed to obtain background information about you as a clinical endocrinologist. Your responses will be used to establish a generic profile of clinical endocrinologists in North America.

[q2] What is your gender?
- Female
- Male

[q3] To help The Endocrine Society understand the diversity of early career endocrinologists, please select the ethnic background that best describes you.
- African American
- American Indian
- Asian
- Caucasian
- Hispanic/Latino
- Mixed
- Other [q3_oth] (please specify): [ ]

[q4] In what year were you born?  
-- Select --

What is your citizenship status?
[q5a] For members residing in the US:
- U.S. Citizen
- Permanent resident
- Non-U.S. Citizen
- Other [q5a_oth] (please specify): [ ]

[q5b] For members residing in Canada:
- Canadian Citizen
- Permanent resident
- Non-Canadian Citizen
- Other [q5b_oth] (please specify): [ ]
IV. Demographic Background... continued

[q6] List the name of the college or university where you earned your undergraduate or bachelor's degree.

If you attended undergraduate school outside of the USA or Canada, list the city/country where your college or university is located.

[q6_new1a] City
[q6_new1b] Country

[q6_new2] At what age did you earn your undergraduate or Bachelor's Degree?

[q7] List the name of the medical school where you earned your medical degree.

[q8] In what country did you attend medical school?

[q8_oth] (please specify):

List the city/country where your medical school is located.

[q8_newa] City
[q8_newb] Country

[q9] Designate the medical degree you earned.

[q9_oth] (please specify):

[q10] In what year did you earn your medical degree?

[q10_new] At what age did you earn your medical degree?

[q11] List the name of the medical school/teaching hospital where you completed your residency.
In what discipline did you pursue residency training?

- Internal medicine
- Pediatrics
- Obstetrics/Gynecology
- Surgery
- Other [q11_new_oth] (please specify):

Did you pursue fellowship training in endocrinology?

- Yes
- No

List the medical school/teaching hospital where you completed your fellowship training in endocrinology.

In what year did you complete your fellowship?  -- Select --

Are you Board Certified in Endocrinology?

- Yes
- No

Do you earn an advanced degree in addition to your medical degree?

- Yes
- No

Select the advanced degrees you earned.

- [q15sp_a] MS or MSc
- [q15sp_b] MPH
- [q15sp_c] MBA
- [q15sp_d] PhD
- [q15sp_e] DSc
- [q15sp_f] Other [q15sp_oth] (please specify):

In what year did you earn your last advanced degree?  -- Select --

List the name of the institution where you earned your last advanced degree.

At what age did you earn your advanced degree?
Thank you for taking the time to complete this survey.

Your survey has been submitted, please close your browser.

The results of this survey will be sent to you via email as soon as the survey is completed. The Endocrinology Society thanks you for taking part in this survey.

If you have questions or require technical assistance with this survey, please email the Survey Research Institute or call 1-888-367-8404.