



# HIMSS 2007 Nursing Informatics Survey

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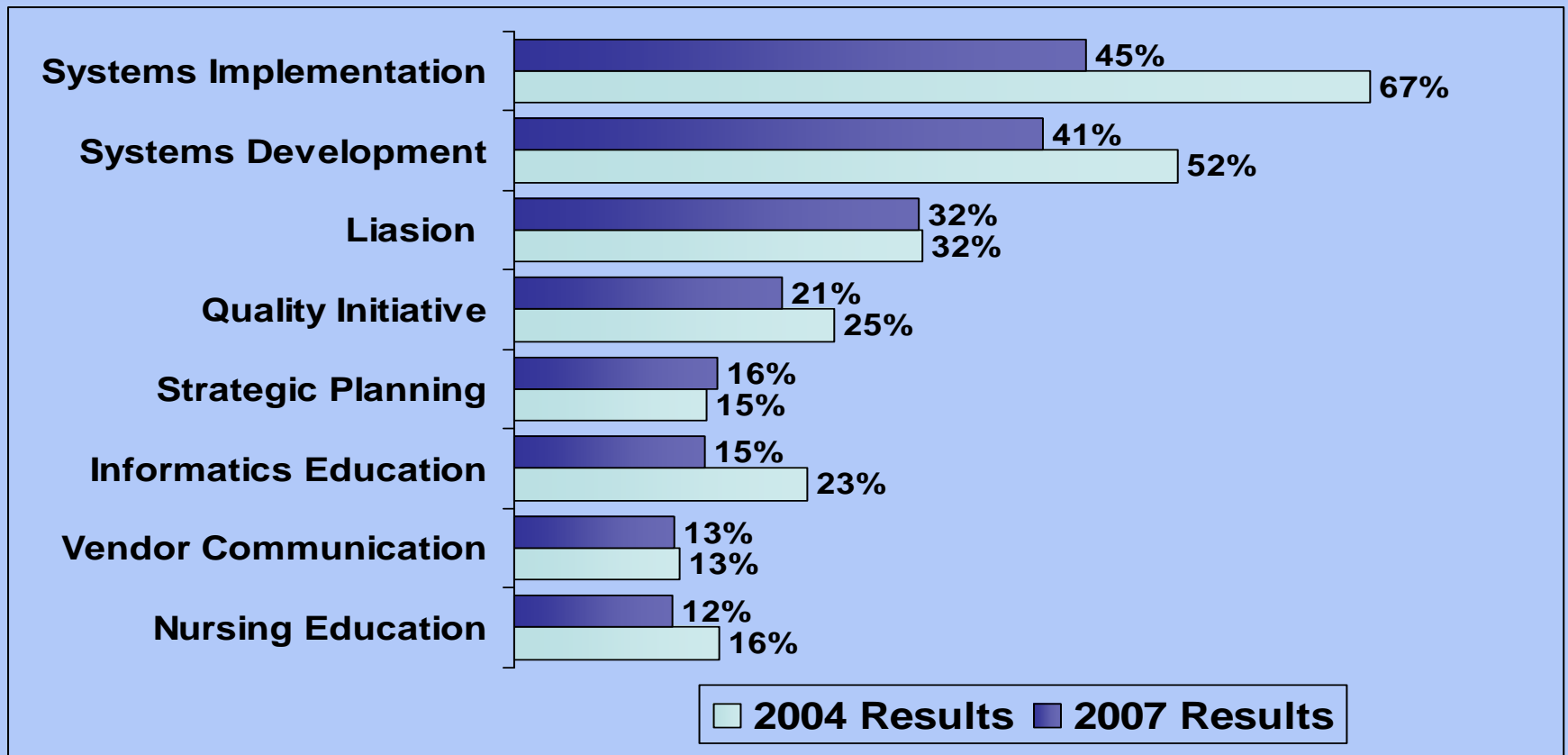
# Observation

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**“Nursing informatics is the leading edge solution that can positively impact the delivery of state of the art health care, lower its cost and dramatically improve patient safety across the entire industry.”**

*Quote From 2007 HIMSS Nursing Informatics Survey Respondent.*

# Top Three Job Responsibilities



*\*Top eight responses shown.*

# Overview: 2007 Nursing Informatics Workforce Survey

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- Conducted to gain a better understanding of the following:
  - Background of nurse informaticists
  - Issues nurse informaticists address on a daily basis
  - Tools nurse informaticists turn to for completing their jobs

# Objectives

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- Identify the 2007 Nursing Informatics survey methodology and respondents.
- Describe the 2007 survey results as they relate to nursing background, informatics training and education of participants.
- Explore job responsibilities and compensation of respondents.

# Objectives

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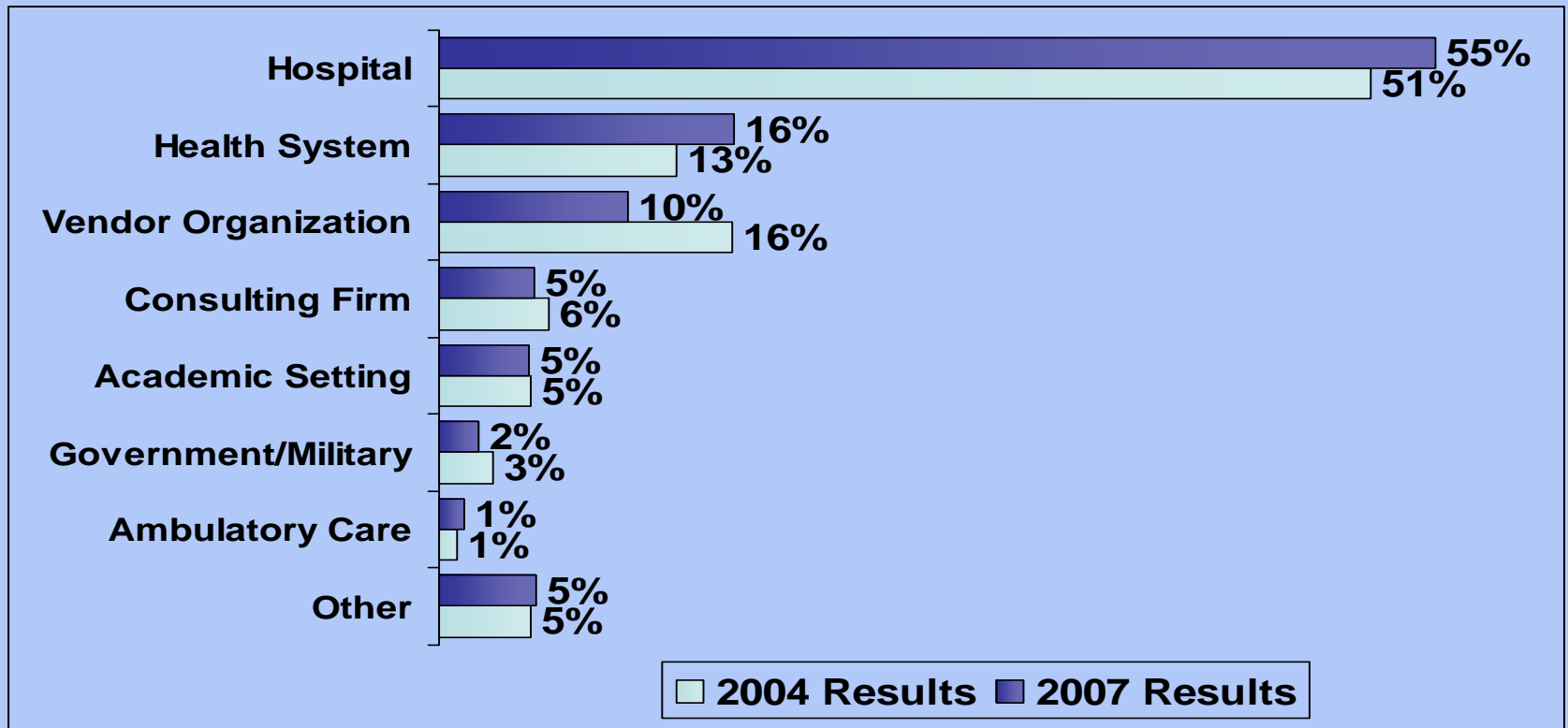
- Review common barriers to success and resources of information identified by nurse informaticists.
- Compare and contrast 2007 survey results with the 2004 survey findings.

# 2007 NI Survey

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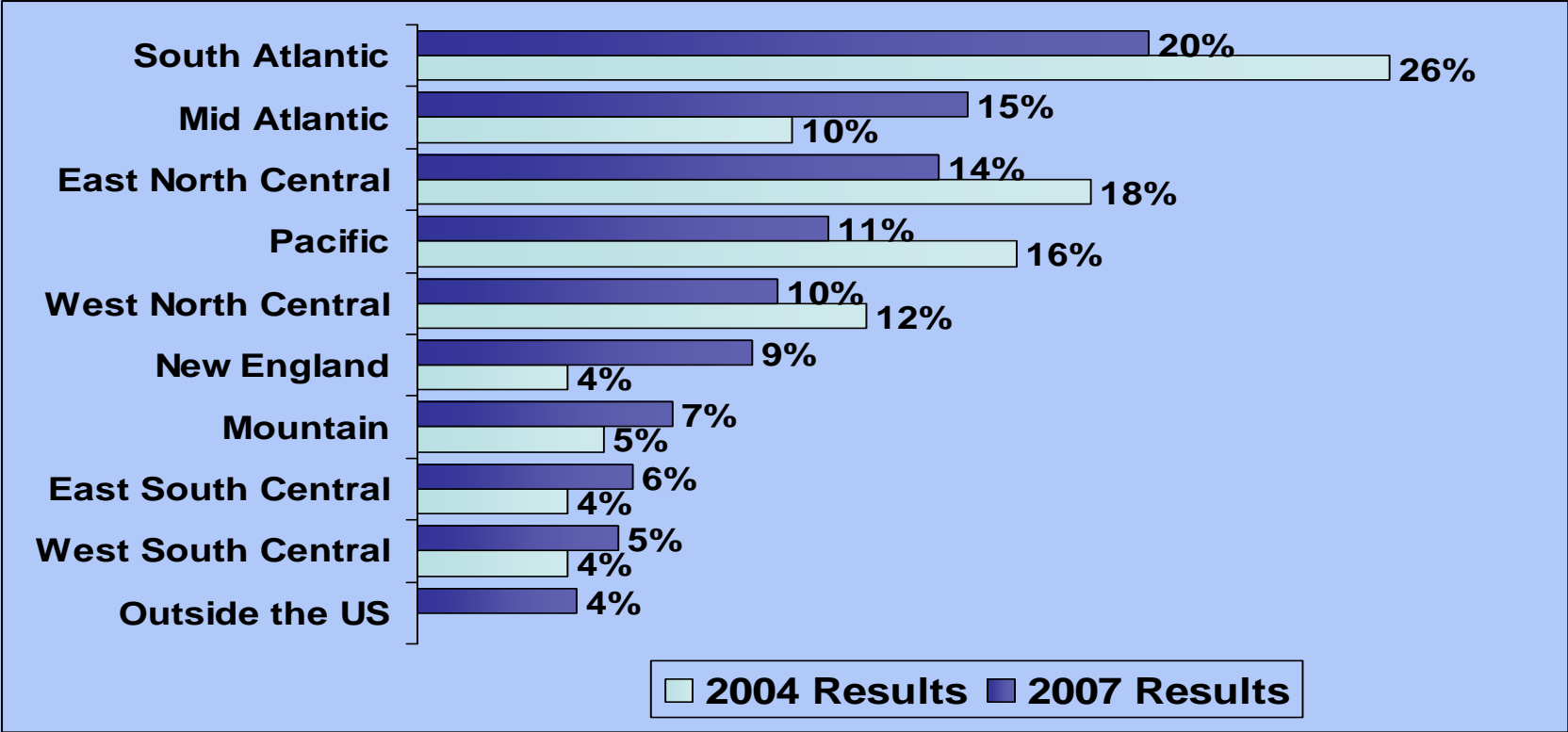
- **Distribution:**
  - Non-probability “Snowball Sampling”
  - Solicitation through NI organizations via:
    - websites
    - listserves
    - emails
    - private referrals
  - 776 respondents

# Primary Workplace



Data from the 2007 HIMSS Nursing Informatics Survey sponsored by McKesson ©HIMSS 2007

# Geographic Region



Data from the 2007 HIMSS Nursing Informatics Survey sponsored by McKesson ©HIMSS 2007



# Nursing Informatics Job Titles

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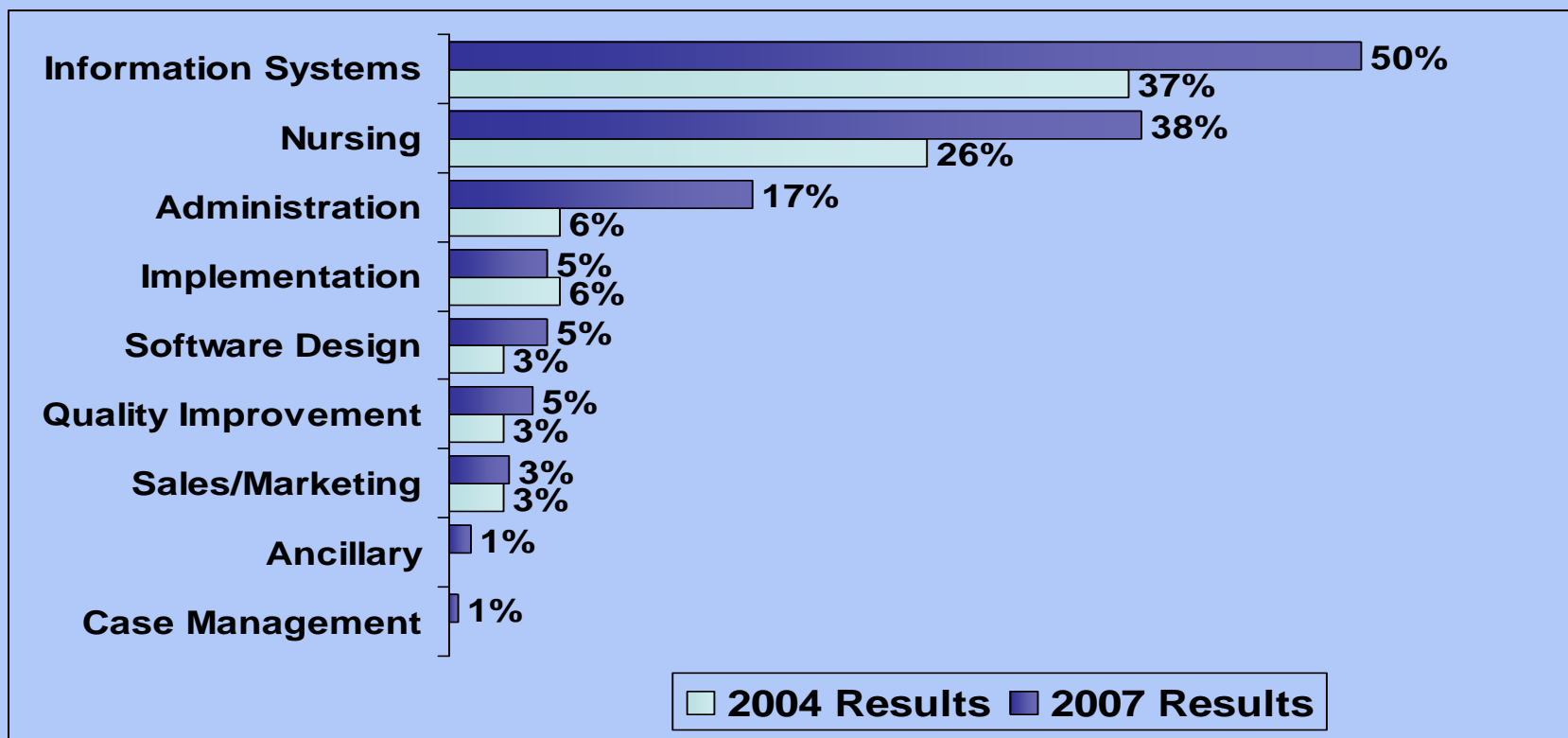
- **Diverse**
  - 14% “clinical analysts”
  - 14% “informatics nurse specialist” or “nursing informatics specialist”
  - 9% “consultant”
  - 40% identified “other”
    - Director of Clinical Informatics, Clinical Informatics Coordinator, Clinical Systems Analyst, Clinical Informatics Specialist.

# Standard Occupational Classification System (SOC)

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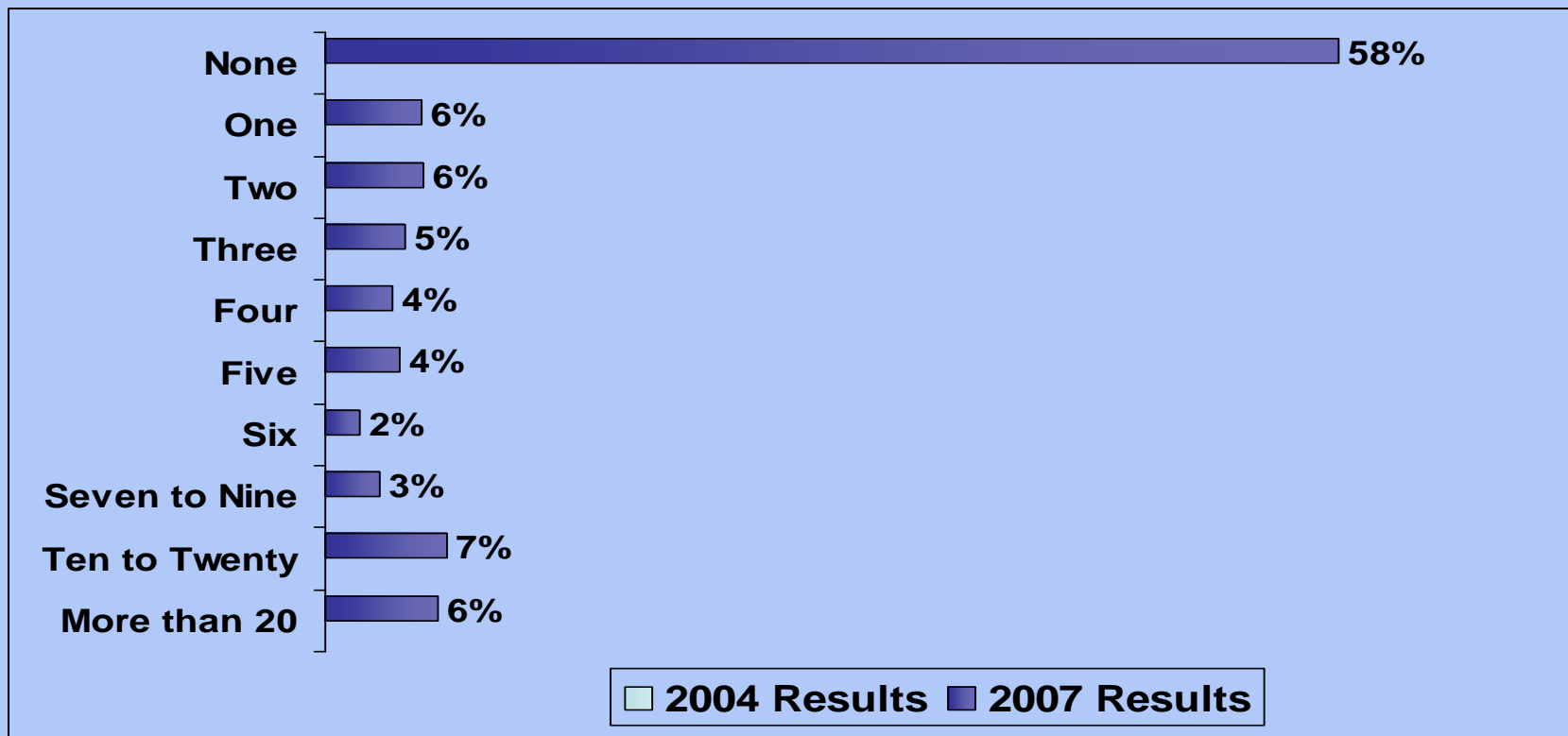
- Federal Bureau of Labor Statistics
- Request revision to Standard Occupational Codes for 2010 Census
- Include Informatics Nurse (Major Code)
  - Informatics Nurse
  - Informatics Nurse Specialist
  - Informatics Nurse Researcher (Minor Codes)

# To Which Department Do You Report?



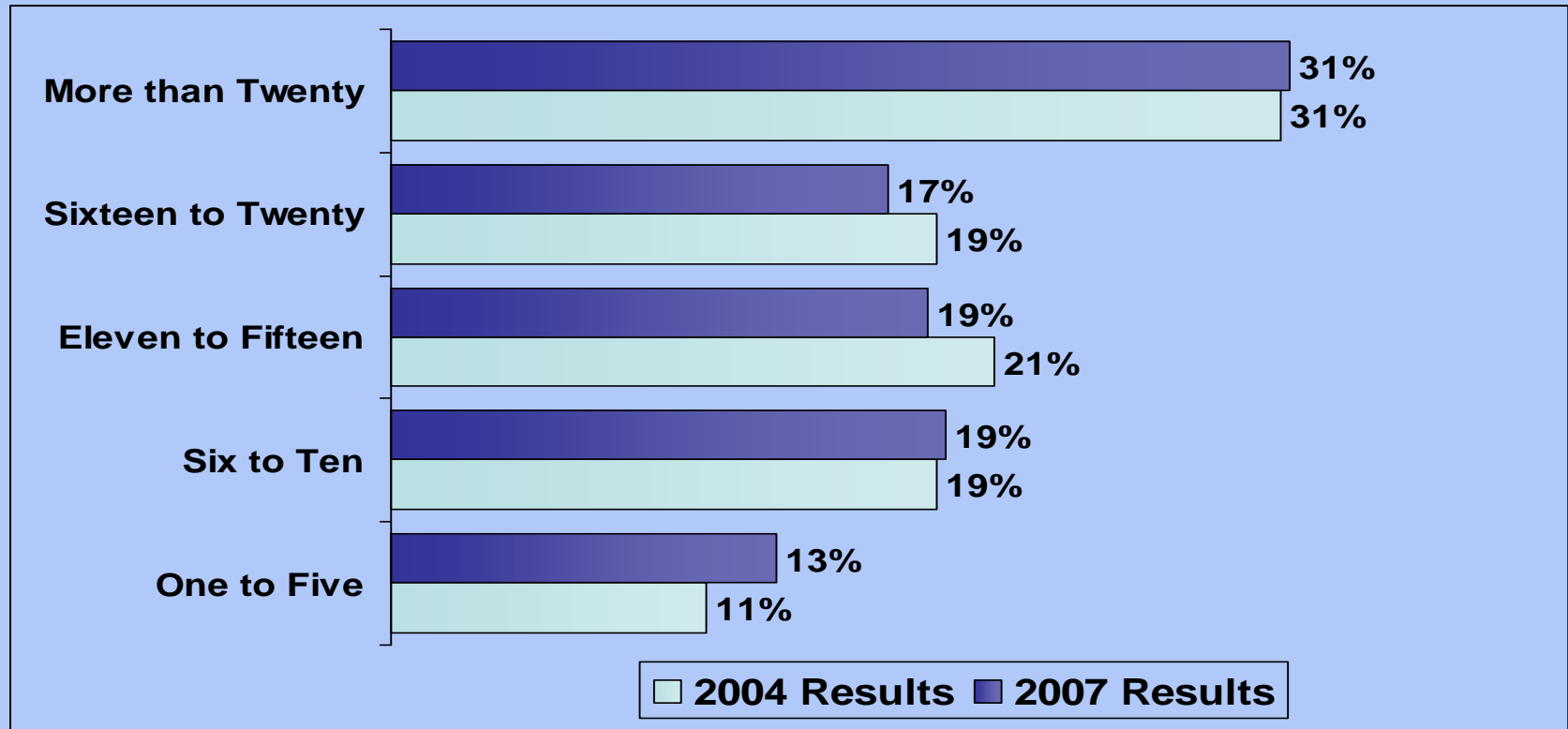
Data from the 2007 HIMSS Nursing Informatics Survey sponsored by McKesson ©HIMSS 2007

# Number of Reports (Direct & Indirect)



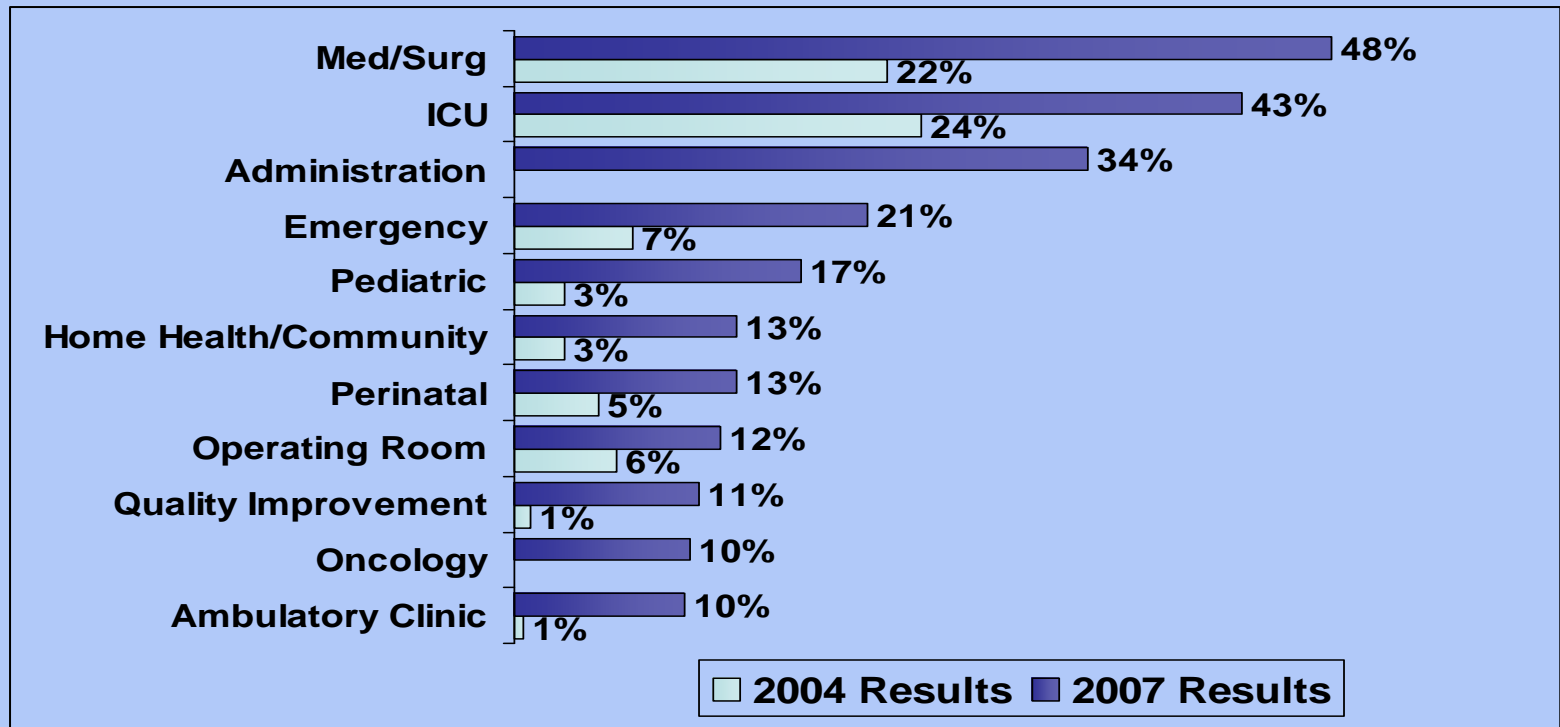
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# Years of Clinical Experience Prior to Becoming a Nurse Informaticist



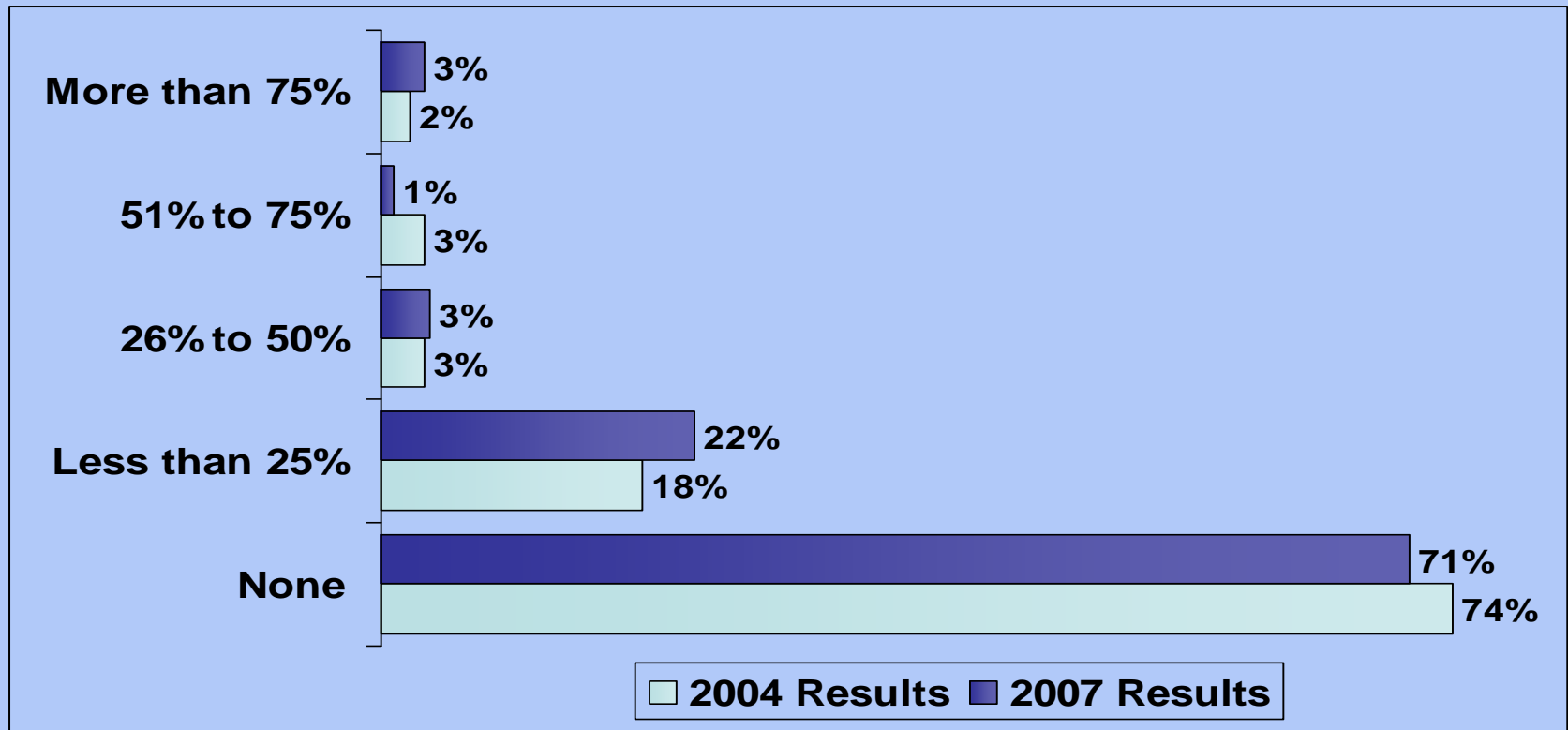
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# Nursing Experience



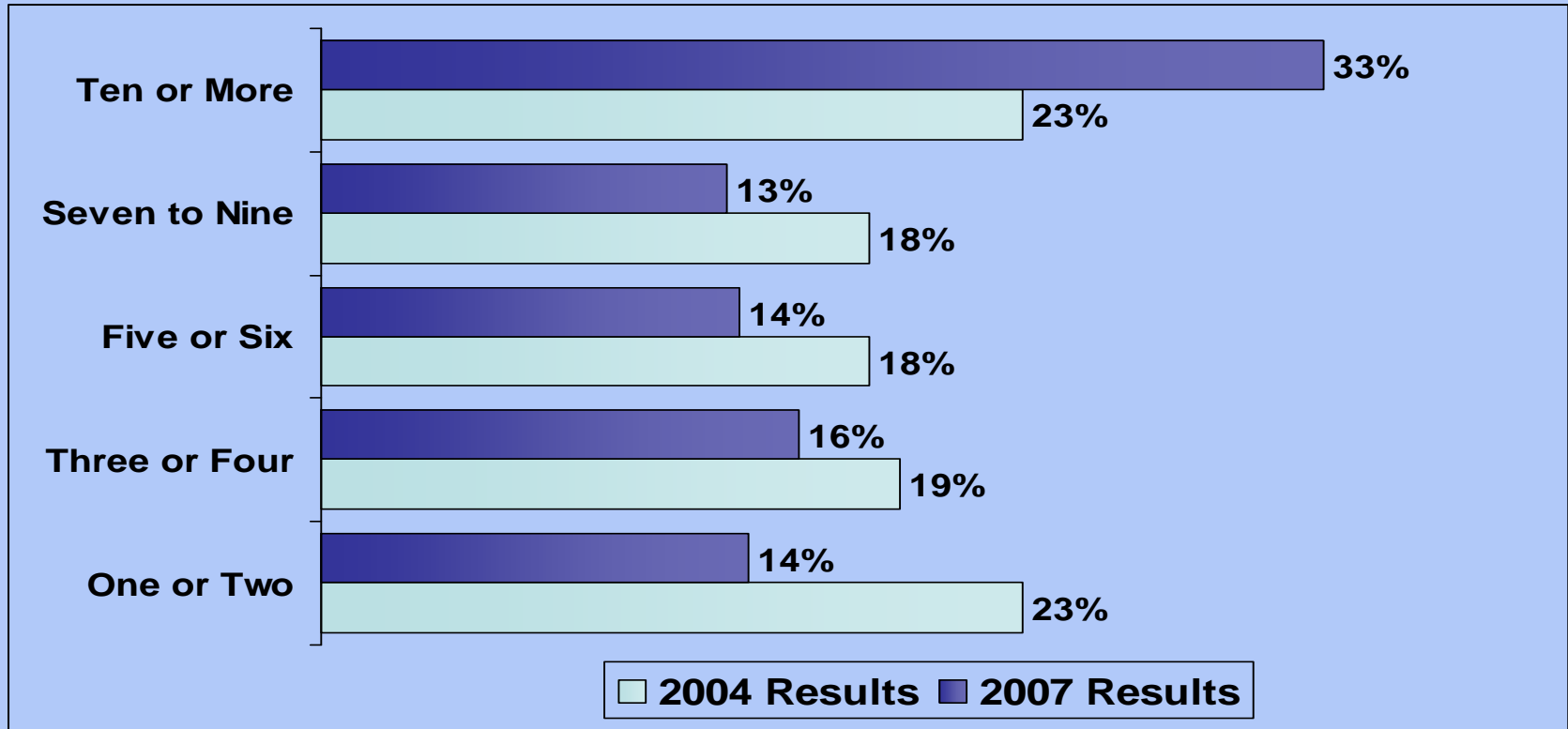
*\*In 2007, respondents were able to choose all that apply; in 2004 they could choose one.*

# Percent of Time Devoted to Clinical Activities



Data from the 2007 HIMSS Nursing Informatics Survey sponsored by McKesson ©HIMSS 2007

# Years of Informatics Experience



Data from the 2007 HIMSS Nursing Informatics Survey sponsored by McKesson ©HIMSS 2007



# Salary

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- **Salary 2004**
  - Average \$69,500
  - Impacted by years in NI, not clinical experience.
- **Salary 2007**
  - Average \$83,675
  - Median \$79,000

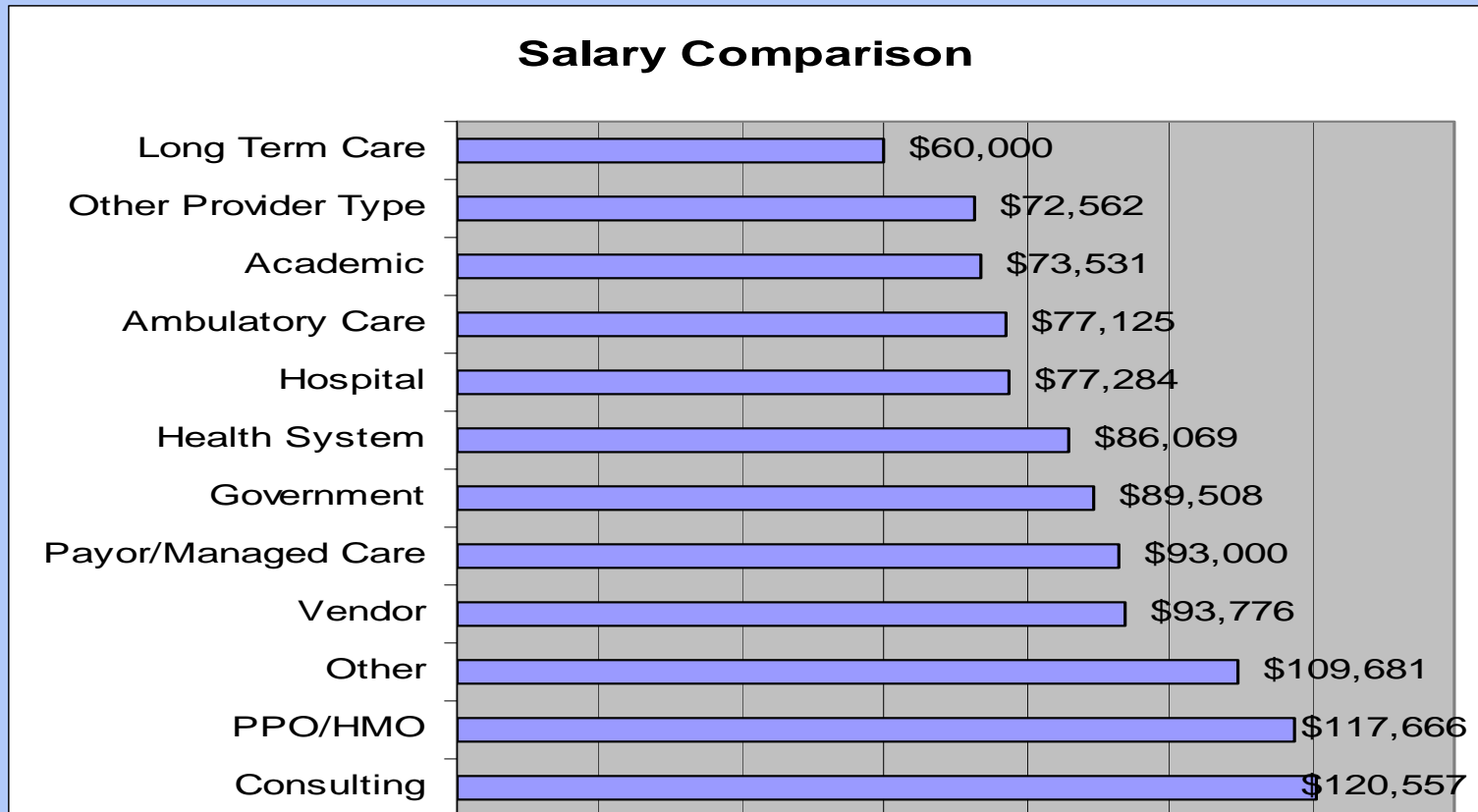


# Salary

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- **Highest average salary:**
  - Pacific Region- \$94,250
  - New England- \$90,500
- **< \$80,000 annual salary**
  - East South Central
  - East North Central
  - Mountain

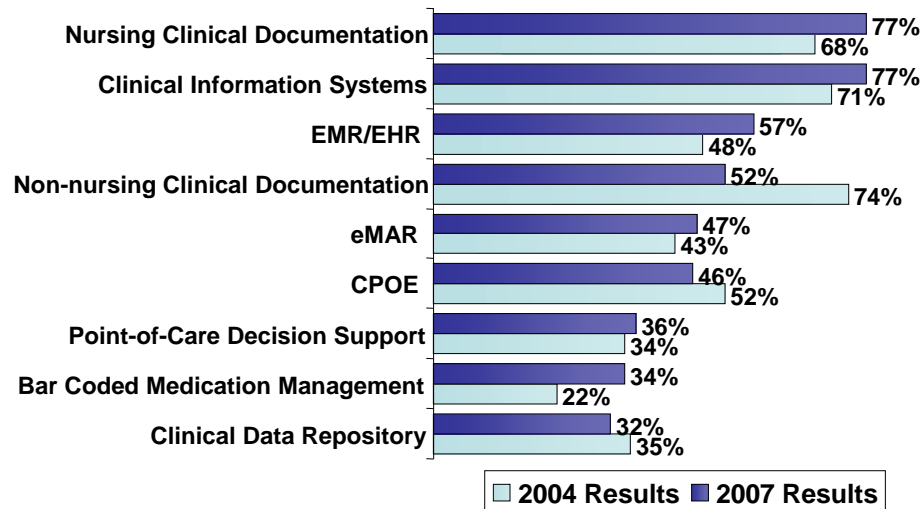
# Salary Comparison



Data from the 2007 HIMSS Nursing Informatics Survey sponsored by McKesson ©HIMSS 2007

# Which Applications do you Currently Participate in Developing/Implementing

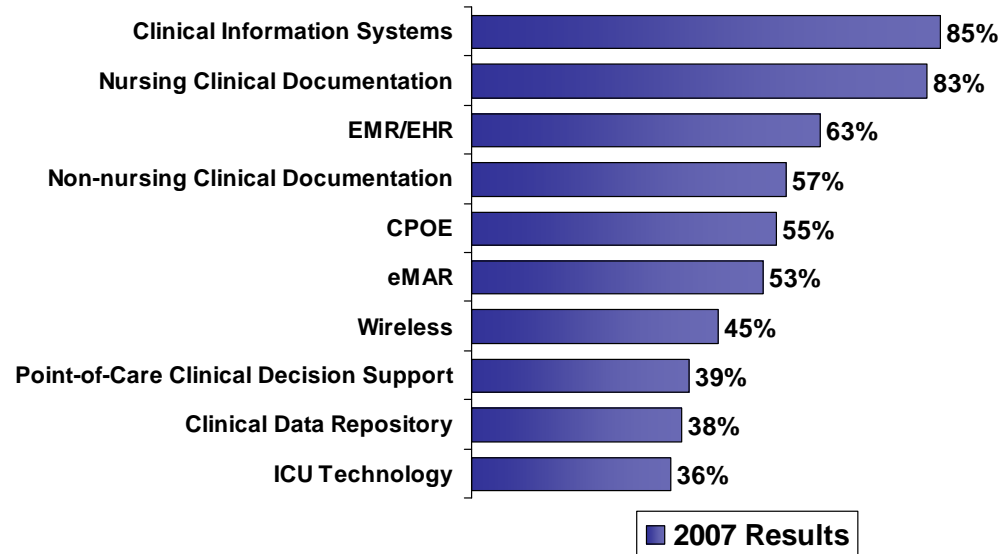
## Which Applications do you Currently Participate in Developing/Implementing



Data from the 2007 HIMSS Nursing Informatics Survey sponsored by McKesson  
© HIMSS  
Top nine responses shown.

# Experience with HIT Applications

## Which Applications do you Have Experience With



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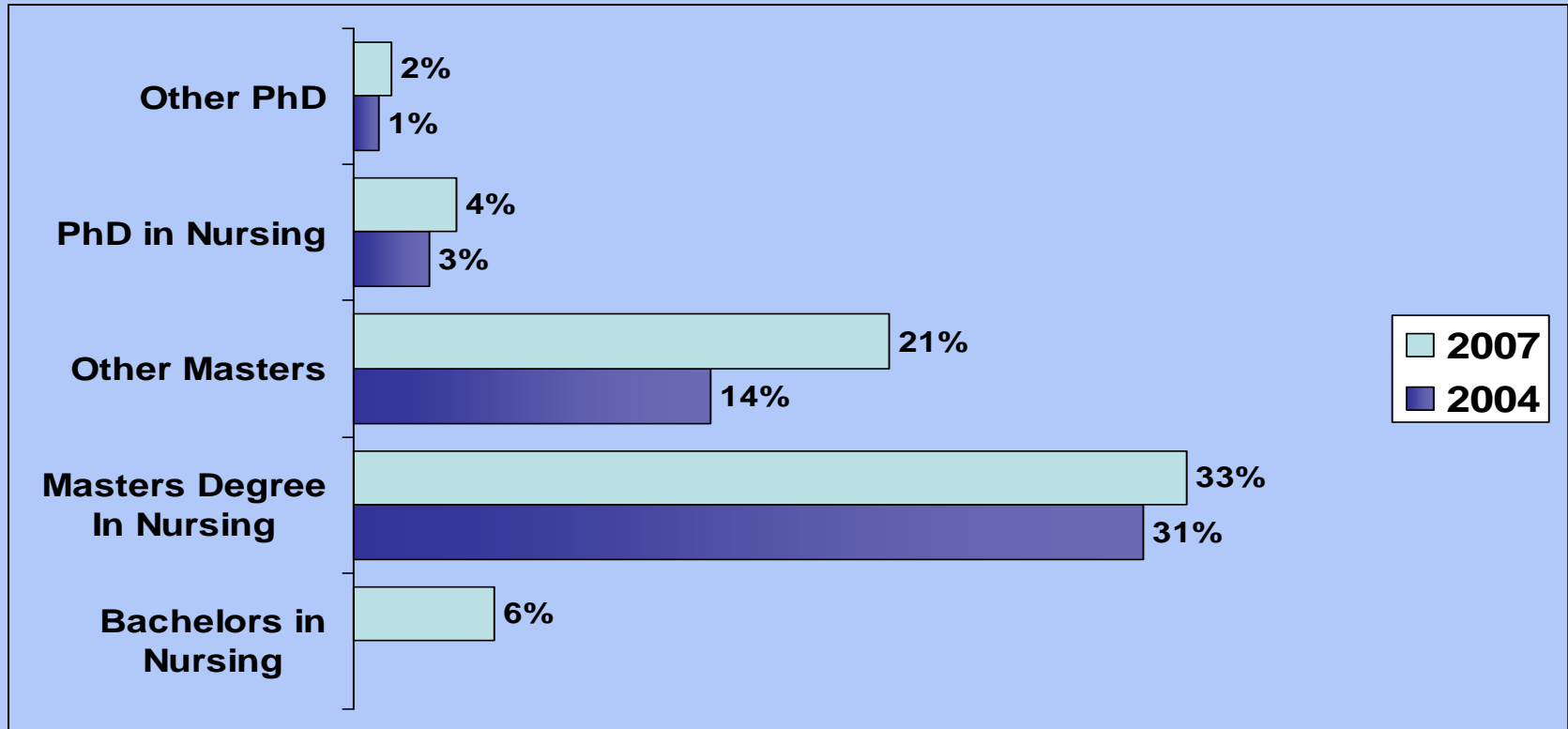
Top ten responses shown.

# Largest Barrier to Success as a Nurse Informaticist



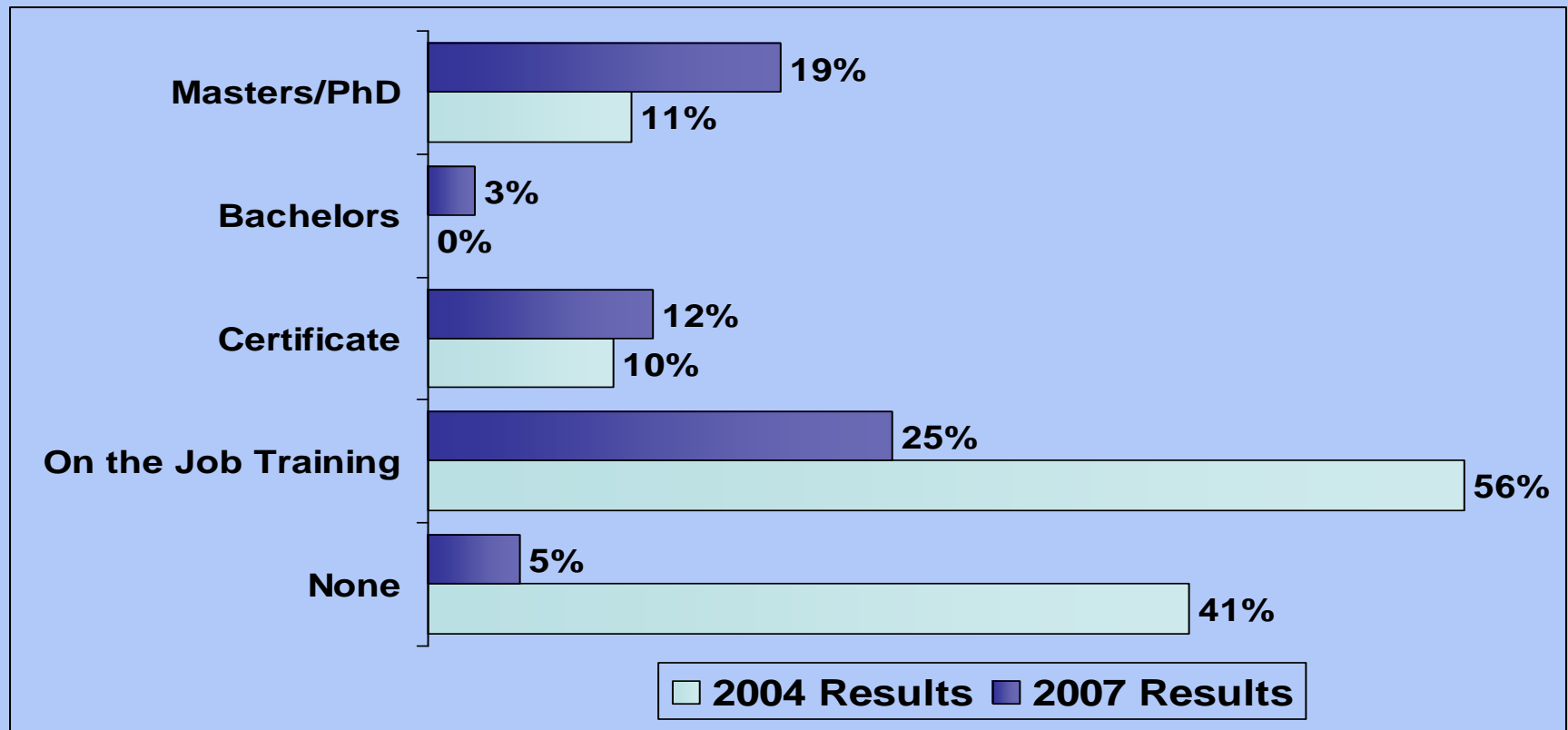
*\*Top ten responses shown.*

# Nursing Education



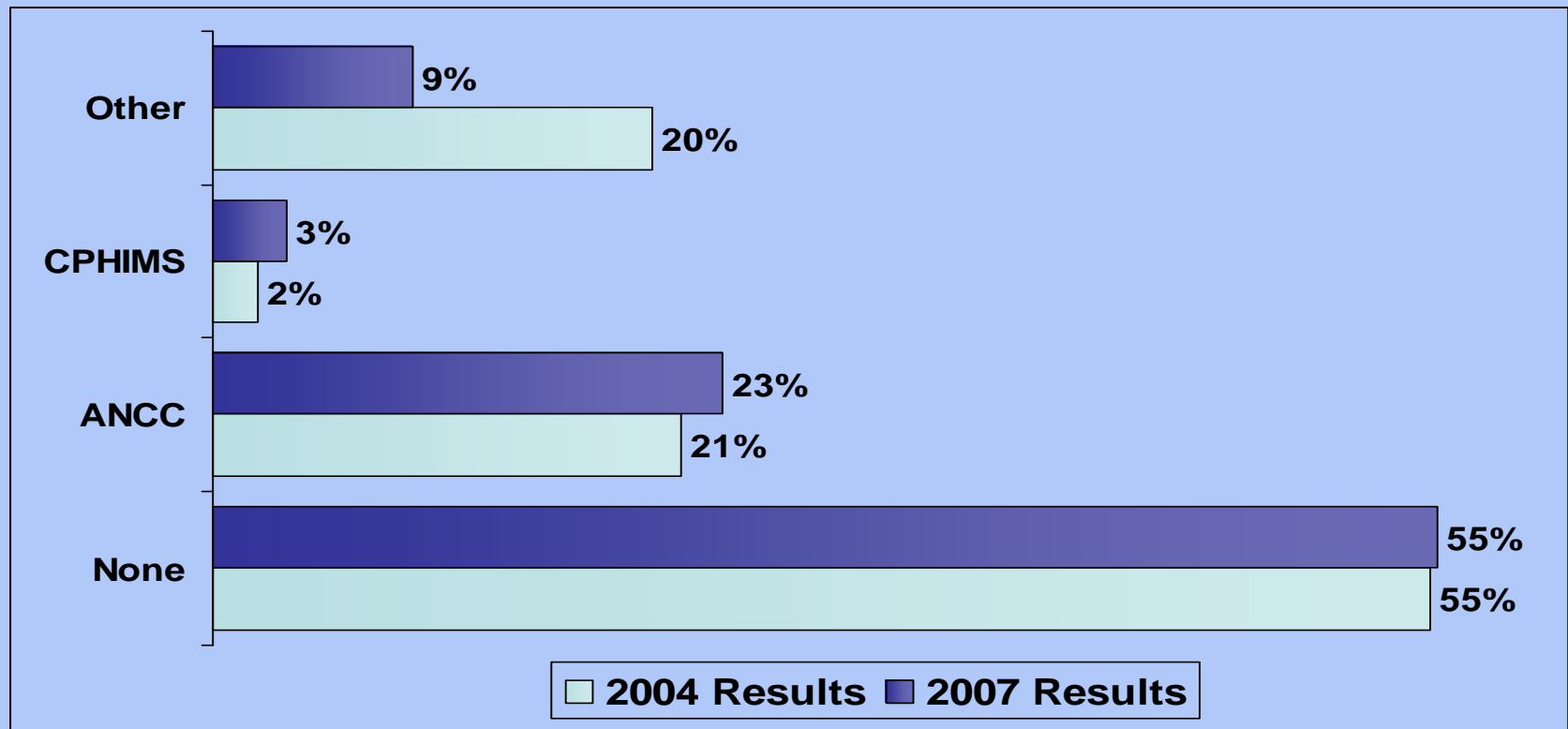
*\*While respondents may hold more than one degree, only highest degree is shown.*

# Training as Nurse Informaticist



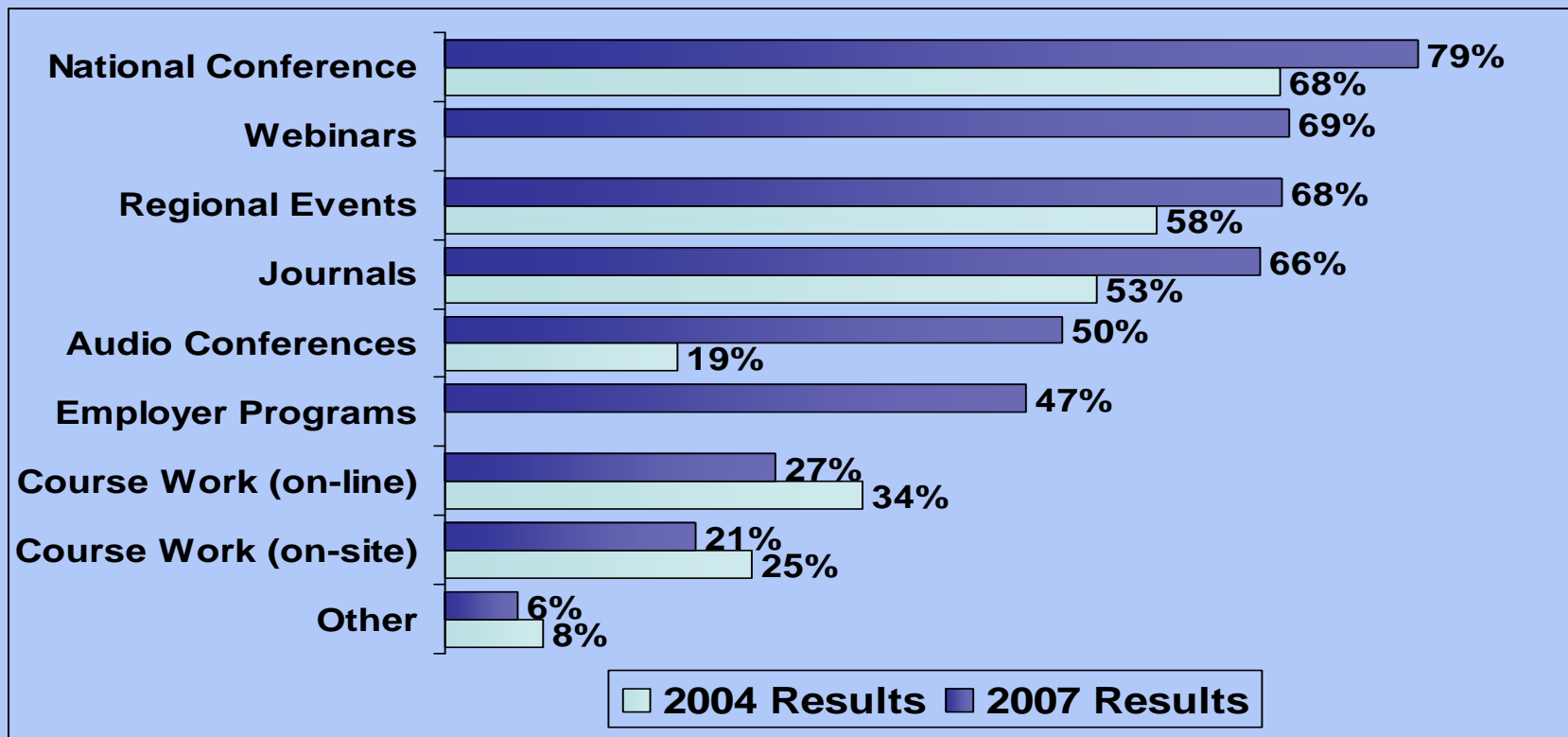
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# Nursing Informatics Certification



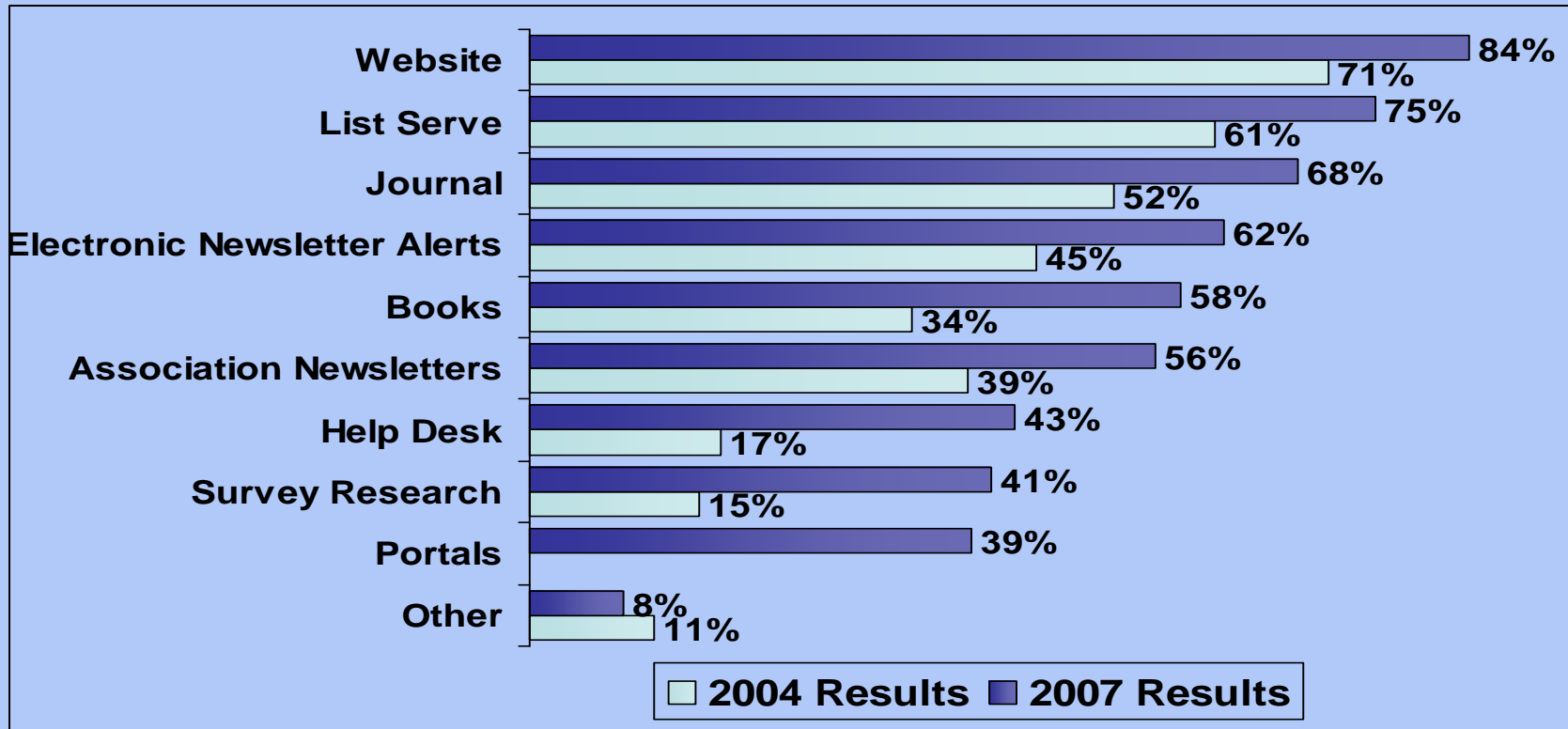
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# Resources for Continuing Education



*\*Top nine responses shown.*

# Sources of Information (To Complete Job Responsibilities)



*Top ten responses shown.*

# Qualitative: Future Trends

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- 457 responses (59%) of respondents reported on future trends.
- **Most common responses related to the following:**
  - Nursing leadership in HIT development/selection/implementation
  - Interoperability and integration are key
  - Integration of informatics roles across nursing specialty areas
  - Systems to support patient-centric care
  - Education & training

# Qualitative: Future Trends

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- Nursing leadership in HIT development/selection/implementation
  - *“In the future the NI role should be a leadership role in organizations. Our role is different than Information Systems and I think we need to be at the table where strategic decisions are being made for our organizations.”*



# Qualitative: Future Trends

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- Nursing leadership in HIT development/selection/implementation
  - *“Nurses are the primary users of EHR and need to be involved in system development and design. The system needs to work for nursing not the other way around. If the system does not improve the workflow it won't be useful... or used!”*
  - *“...If we as nurses don't like the systems being developed, then we should go and fix them at the source. Would like to see the profession to address more the needs of nurses in the development environment, regardless of their role.”*
  - *“... I see nursing informatics shaping how rollouts are done and designing the continuing education that needs to be done to keep staff current and updated on the systems...”*

## Qualitative: Future Trends

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- Interoperability and integration are key
  - *“I'd like to see nursing embrace the use of standards that can be transferred across settings so that patient information can move with the patient to where ever healthcare is provided...Standard nursing language and data repositories with universal connectivity is the first step.”*
  - *“More focus on interoperability and integration...niche systems have no place currently and in the future.”*
  - *“...still too many stand alones that won't communicate with each other.”*



## Qualitative: Future Trends

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- **Systems to support patient-centric care**
  - *“At the bedside, we are the patient advocate. Beside the computer, we are still the patient advocate. I see us as continuing with this goal and having a positive influence on creating software that keeps the patient first and foremost as the top priority.”*

# Qualitative: Future Trends

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- **Systems to support patient-centric care**
  - *“Nursing has been the passive recipient of information for too long. Efficient and effective information management is vital to quality patient care. Patient care is a business; the business of providing care and support during periods of time when a patient can not do it for themselves. The end result is to produce outcomes that allow the patient a return to the highest possible quality of life possible. These are not new concepts, nor is informatics.”*



# Qualitative: Future Trends

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- **Education & training**

- *“Nursing needs to commit to constant re-education as technology changes and accept it as part of our modern world.”*
- *“I see it growing tremendously and there will be a shortage of trained professionals in the field... I feel the need for reaching out to further educate people in the field...to grow a population of nurses who are educated in informatics is vital.”*
- *“...I also see the education process becoming more formalized, instead of the OTJ training that a lot of us received out of necessity!”*
- *“The tertiary education will not be able to keep up and the level of sophistication of these systems will outstrip many of those hired to implement them.”*

# Conclusions

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- Nurse informaticists are increasingly recognized for their broad knowledge base and for the key roles that they play in system design, selection and implementation.
  - Multi-system/specialty Involvement
  - Titles
  - Education & Training
  - Salary