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**A Standardized Nurse Practitioner
Cardiovascular Residency Program
Made into a Reality**

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Outline


- Background
- NP's preparedness to practice
- NP residency programs
- Development of a CV NP residency program
- Funding a CV NP residency program
- Implementation of CV NP residency program
- Evaluation of CV NP residency program



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Background

- Leading cause of death in the US is cardiovascular disease (CVD)
- Prevalence of CVD
 - Increase by 1% -2% per year
 - American Heart Association (AHA) estimates 20 million more people with CVD by 2020.
- Aging population
 - Will increase 3.3% annually
 - Increase risk of CVD

 AHA (2010); CDC. (2011); Rogers et al. (2009).

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Cardiology Workforce Crisis

Cardiovascular workforce needs to double in number to fill the needs of the projected population with cardiovascular disease by 2025 = increase of **16,000** practitioners

Table 1. Current Shortage for Cardiologists by Subspecialty, 2008

Cardiology Subspecialty	Current Shortage
General cardiology	1,685
Cardiac electrophysiology	660
Interventional (coronary + peripheral)	1,941
Pediatric	127

Reprinted from the Cardiovascular Workforce Assessment (5).
Rogers et al. (2009). ACC 2009 survey results and recommendations:
Addressing the cardiology workforce crisis *JACC*, 54(13), p.1201.




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ACC Recommendations

- More effective and efficient use of APRNs
- Support expansion of general and cardiology-specific training programs for APRNs
- Educate the cardiology community about team-based care


Rogers et al. (2009). ACC 2009 survey results and recommendations:
Addressing the cardiology workforce crisis *JACC*, 54(13).

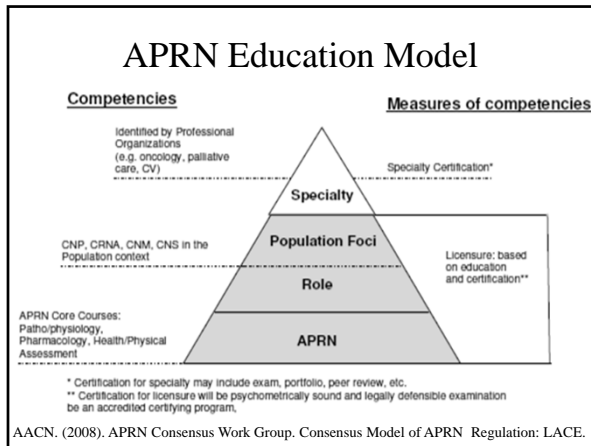


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APRN Preparedness

- Professional development and mentorship needs of the novice APRN not established (Doerdsen, K., 2010)
- APRN specialization is acquired through:
 - Informal orientation
 - Individualized mentoring
 - Self-teaching
- NP graduate educational programs do not provide specialized care training (Stanley, J., 2009)





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Residency Programs

- Limited Specialties
- Very limited availability
 - Small numbers in class
- No Standardization
- Certifications?

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The Future of Nursing:

LEADING CHANGE, ADVANCING HEALTH

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IOM Recommendations

1. Remove scope-of-practice barriers
2. Expand opportunities for nurses to lead & diffuse collaborative improvement efforts
3. Implement nurse residency programs
4. ↑ the proportion of nurses with a BS degree to 80% by 2020
5. Double the number of nurses with a doctorate by 2020
6. Ensure that nurses engage in lifelong learning
7. Prepare & enable nurses to lead change to advance health care
8. Build an infrastructure for the collection & analysis of interprofessional health care workforce data

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Research Priorities

1. Transforming Nursing Practice
 1. Scope of Practice
 2. Residencies
 3. Teamwork
 4. Value
2. Transforming Nursing Education
3. Transforming Nursing Leadership

FUTURE OF NURSING™ Campaign for Action

Research Agenda


Overview

The Robert Wood Johnson Foundation (RWJF) is coordinating a unique, multi-funder initiative to identify, generate, synthesize and disseminate evidence essential to informing efforts to implement the recommendations outlined in the Institute of Medicine (IOM) report, "The Future of Nursing: Leading Change, Advancing Health" and to contribute to Campaign for Action's goal of advancing comprehensive change in health care for patients and the country. The purpose of this activity is to increase and focus national attention on a common research agenda related to the IOM recommendations and to facilitate and coordinate funding activity across a range of funders of nursing research.

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Research Methods (Continued)


- Cost vs Benefit analysis
 - Risk analysis
 - Qualitative methods to obtain describing variables
- Evaluations of the Program and Process
 - Monitor progression
 - Examine for need of modification



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Team


- Co-PIs:
 - Kathleen Ballman, RN, MSN, ACNP-BC, CEN
 - Barbara Bell, RN, MSN, ACNP-BC
- Nursing Education and Research Faculty Advisor:
 - Theresa Beery, RN, PhD, ACNP-BC, CNE
- Medical Faculty Advisor:
 - Neal Weintraub, MD, FACC
- Clinical Faculty
 - Alexandru Costea, MD
- ACC Liaison and Advisor:
 - Eileen Handberg, RN, PhD, APRN-BC, FAHA, FACC
- Program Development Expert
- Statistician



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Summary

- Evidence for the need of an APRN CV residency
- Project is inline with the IOM Research Priorities and Recommendations
- This APRN CV residency program will be endorsed by the ACC and serve a **national guideline**
- Certification will be developed
- IRB approval will be sought as appropriate for the case study and questionnaires
- Dissemination of the analysis will occur during and after project




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References

American Association of College of Nurses. (2008) APRN Consensus Work Group and National Council of State Boards of Nursing APRN Advisory committee. Consensus Model of APRN Regulation: licensure, accreditation, certification and education (2008). Accessed on 12/10/2010 from: <http://www.aacn.nche.edu/education/pdf/APRNReport.pdf>

American Heart Association. Heart disease and stroke statistics: 2010 update-at-a-glance. Accessed on 12/02/2010 from: http://www.americanheart.org/downloadable/heart/1265665152970D-S-3241%20HeartStrokeUpdate_2010.pdf

American Heart Association. (2010). Heart disease and stroke statistics-2010 update. *Circulation*, **121** (7). Retrieved on 10/15/2010 from <http://circ.ahajournals.org/cgi/reprint/121/7/e46>




College of Nursing

APRN Consensus Work Group and National Council of State Boards of Nursing APRN Advisory committee. (2008). Consensus Model of APRN Regulation: licensure, accreditation, certification and education. Accessed on 12/10/2010 from: <http://www.aacn.nche.edu/education/pdf/APRNReport.pdf>

Benner, P. (1982). From novice to expert. *The American Journal of Nursing*, **82**(3), 402-407.

Centers for Disease Control and Prevention. (2010). Deaths and Mortality. Accessed on 12/02/2010 from: <http://www.cdc.gov/nchs/fastats/deaths.htm>

Doerksen, K. (2010). What are the professional development and mentorship needs of advanced practice nurses? *J Professional Nursing*, **26** (3):141-151




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Flinter, M. (2005). Residency programs for primary care nurse practitioners in federally qualified health centers: A service perspective. *Online Journal of Issues in Nursing*, **10**(3). Retrieved on 9/27/2010 from: http://www.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofContents/Volume102005/No3Sept05/tpc_516029.aspx

Hart, A. & Macnee, C. (2007). How well are nurse practitioners prepared for practice: Results of a 2004 questionnaire study. *Journal of the American Academy of Nurse Practitioners*; **19**, 35-42.

Institute of Medicine of the National Academies. (2010) The future of nursing: Leading changed, advancing health. Accessed on February 20, 2011 from: <http://www.iom.edu/Reports/2010/The-Future-of-Nursing-Leading-Change-Advancing-Health.aspx>



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- Kleinpell, R. M. (2005). Acute care nurse practitioner practice: Results of a 5-year longitudinal study. *American Journal of Critical Care, 14*(3), 211-221.
- Kleinpell-Novell, R. (1999). Longitudinal survey of acute care nurse practitioner practice: Year 1. *AACN Clinical Issues, 10*(4): 515-520
- Rodgers, G. P., Conti, J. B., Feinstein, J. A., Griffin, B. P., Kennett, J. D., Shah, S., Walsh, M. N., Williams, E. S., & Williams, J. L. (2009). ACC 2009 survey results and recommendations: Addressing the cardiology workforce crisis A report of the ACC board of trustees workforce task force. *Journal of the American College of Cardiology, 54*(13), 1195-1208. doi:10.1016/j.jacc.2009.08.001



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- Shelby, D. (2008). The development of a standardized dermatology residency program for the clinical doctorate in advanced nursing practice. *Dermatology Nursing, 20*(6), 437-447.
- United States Health and Human Services Health Resources and Services Administration. (2010). The registered nurse population: Initial findings from the 2008 national sample survey of registered nurses.
- Yeager, S. (2010). Detraumatizing nurse practitioner orientation. *Journal of Trauma Nursing, 17*(2), 85-101

