

NNCC does require a BSN for CNN certification

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Practice Analysis/Role Delineation Surveys

CNN Launched

1987

1997

2006

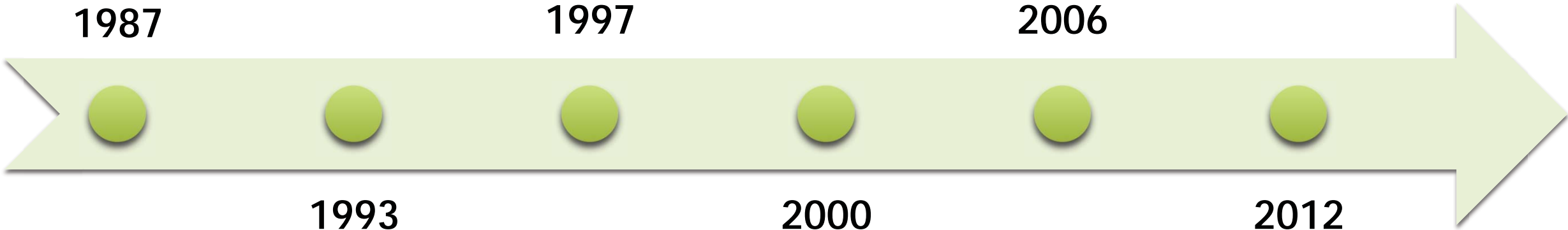
1993

2000

2012

BSN Required for
CNN

CDN Launched
(2001)



CNN Development - 1987

- ▶ RNs experienced in all aspects of care for kidney patients; hospital-based
- ▶ CNN – at proficiency level of knowledge – based on Benner's model

Certified Nephrology Nurse - CNN

- ▶ **All Areas of Nephrology Nursing**
 - ▶ CKD prior to renal replacement therapy
 - ▶ Hemodialysis
 - ▶ Peritoneal dialysis
 - ▶ Home dialysis
 - ▶ Transplant
 - ▶ Acute therapies – Continuous renal replacement therapies & pheresis

1997 Survey – Secondary Analysis

- ▶ BSN nurses still working in multiple areas of nephrology nursing
- ▶ New nurses entering specialty prepared primarily at AD level and hired to work in free-standing dialysis facilities

Changes in Nephrology Practice

- ▶ Decreased Number of Hospital-based Dialysis Units
- ▶ Increased Number of For-Profit Free-Standing Facilities
 - ▶ Largely staffed by new nephrology nurses with AD education

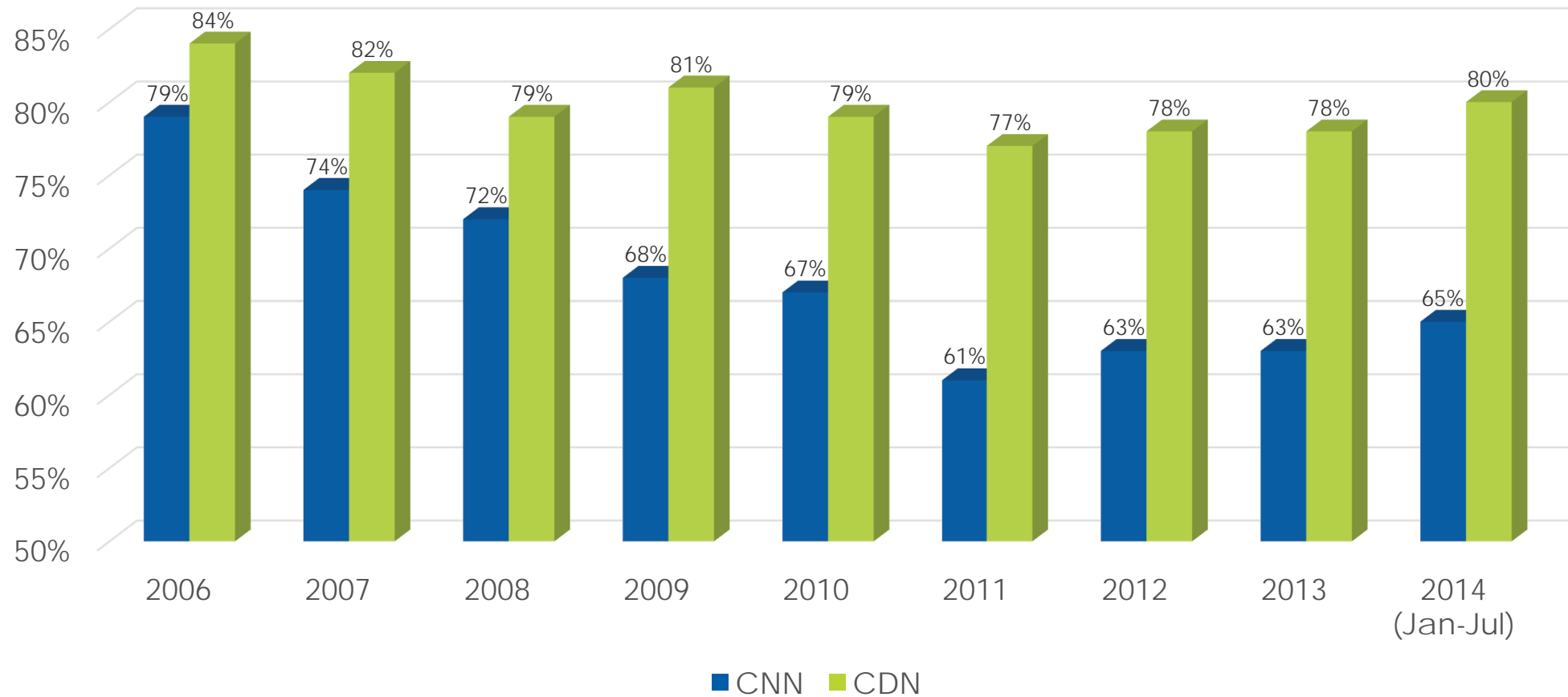
1996-1999 Changes in Test Results

- ▶ Decline of exam scores
- ▶ Post-examination evaluations reported CNN test was “too difficult” and not representative of the individuals’ practice
- ▶ NNCB recognized need for an additional examination for new nurses practicing in dialysis facilities

Certified Dialysis Nurse - CDN

- ▶ **More Defined Scope of Practice - Hemodialysis**
- ▶ **Competency Level - BSN Not Required**
 - ▶ Primary focus on hemodialysis
 - ▶ Peritoneal dialysis
 - ▶ Transplant – limited to concerns of dialysis patients on transplant list and patients whose transplants failed

CNN & CDN Pass Rates 2006-Present



1997-2012 Surveys: Significant Differences CDN & CNN

- ▶ Treatment Modalities
- ▶ Practice Settings
- ▶ Roles
- ▶ Activity Statements
- ▶ KSA Statements

Treatment Modalities 2012

Modality – at least 25% of time	CDN	CNN
Hemodialysis	95% ***	72%
Home hemodialysis	4.4%	13.5% **
CKD management, not RRT	4.4%	10.7% *
Transplant	2.2%	11.6% ***

Treatment Modalities 2012

Modality – 100% of time	CDN	CNN
Hemodialysis	64.8% ***	45.1%
Peritoneal dialysis	1.1%	7.0% **
CKD management, not RRT	1.1%	3.3% *
Transplant	0	7.0%***

Practice Settings 2012

Setting – at least 25% of time	CDN	CNN
Free –standing dialysis center	48.4%**	34.4%
Free-standing home dialysis program	6.6%	11.6%**
Hospital outpatient transplant clinic	1%	7.4% **
Hospital inpatient transplant unit	0	1.4%
Hospital-based home dialysis program	0	3.3%

Roles 2012

Role - at least 1/3 of the time	CDN	CNN
Staff/Clinical	52.7%*	43.7%
Charge nurse/Clinical coordinator	36.3%*	29.8%
Patient educator	15.4%	21.4%*
Clinical outcomes/Quality manager	14.3%	19.1%*
Case manager	3.3%	6.5%*
Administrator/Director	4.4%	9.3%*
Corporate clinical support	1.1%	5.1%*

Highest Rated Activity & KSA Statements

- ▶ **CDN**

- ▶ Intradialytic aspects of care, including direct patient care and technical interface

- ▶ **CNN**

- ▶ Much broader scope, e.g., coordination of care, patient and staff education, and interdisciplinary collaboration

In summary . . .

- ▶ Practice surveys have demonstrated that CNNs with BSN preparation have a broader scope of practice within nephrology nursing.
- ▶ Consistent survey results since 1997 have shown
 - ▶ widening differences in roles between CDN and CNN certificant.
 - ▶ changes in practice settings.
- ▶ Due to these changes and declining CNN examination scores, the CNN eligibility practice criterion will change in January 2015 to include not only the BSN but also experience beyond hemodialysis.