Prescribing Knowledge & Practice Patterns of Advanced Practice Nurses in Ohio
Marjorie Vogt, PhD, DNP, CNP, FAANP & Barbara Schaffner, PhD, CNP

Background
• As the number of APRNs have grown, the number of prescriptions being written have grown. Changes in prescriptive authority have occurred and vary across state lines.
• Little is known about APRN prescribing knowledge and practices after these changes occur.

Purpose
Explore the medication knowledge and prescribing practices of APRNs in Ohio

Sample
• Convenient sample
  - 588 APRNs obtained from state of Ohio data base
  - Response rate 10%
• Demographics
  - Majority work full time (80%)
  - Majority prepared at MSN level (90%)
  - Years of experience as APRN: < 5 yrs - 44.7% 6-15 yrs - 34.6% >15 yrs - 21.6%
• Place of employment
  - Primary care setting - 36.3%
  - Acute care setting - 36.7% (ER/hospital)
• Population Served
  - Adult/geriatrics - 38.5%
  - Family - 37.6%
  - Child/Adolescent - 18.9%
  - Mental Health - 5.7%
• Prescribing practices
  - Currently prescribe medications - 96.6%
  - Prescribe Schedule II drugs - 75%

Instruments
• Descriptive Survey using SurveyMonkey® Demographics
  Practice patterns & medication knowledge
• IRB approval obtained

Results

Correctly Identified Common Drug Interactions
- Warfarin & cyclosporine
- Methotrexate & thioridazine
- Amoxicillin & atenolol
- Amiodarone & diltiazem

Prescribing Knowledge & Practice Patterns
- Medcication Knowledge
  - Original pharmacology course from University - 85%
  - Continuing education - 30.5%
- Obtain information about medications from
  - Mobile device - 73%
  - Internet (website) - 45%
  - Pharmacists - 43%
  - Drug textbook - 32%
  - Collaborating physician - 23%
  - Collaborating APRN - 15%

Prescribing Patters
- Prescribe Schedule II drugs for:
  - Acute pain
  - Chronic pain
  - Stimulants
  - 68% 27% 28%

Commonly prescribed medications:
- Antibiotics
- Respiratory medications
- Anti-hypertensives
- Antiepileptic
- Cardiac medications
- Gastric medications
- 54% 41% 37% 37% 36% 36%

Practice Implications
The majority of APRN respondents indicate they currently prescribe medications, and the majority also prescribe Schedule II drugs.
Respondents indicate the original knowledge of Advanced Pharmacology came from a University course.
Respondents primarily use a mobile device to obtain additional medication prescribing knowledge, with fewer utilizing the package insert or other team members.
Respondents most commonly prescribe Schedule II medications for acute pain.
Antibiotics continue to be the most commonly prescribed medication by APRNs.

Discussion
• APRNs consider prescribing medications to be an important component of practice.
• Future education of Advanced Pharmacology for APRNs may emphasize use of healthcare team members, such as pharmacists as valuable resources. The importance of package inserts may also need additional attention. Emphasis on common drug interactions remains important.
• Future research will focus on:
  - best practices for Advanced Pharmacology initial education and continuing education
  - knowledge acquisition of new medications available and adoption into practice

References