

Meet the New POPS - They'll Flip Your Teaching



POPS – Patient-Oriented Problem Solving in Pharmacology



USB drives provided by  **Thieme**

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Today's schedule –

History & Introduction	3:00 - 3:15
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Facilitated group exercises	3:15 - 5:10
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Summary and Discussion	5:10 - 5:30
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1970'S –

Original POPS unit was written for use in teaching immunology.

Reported by Small, Johnson, and Ulmer at FASEB 1974.

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1980's -

A series of six pharmacology POPS units edited by Burford and Kepler, working with associate editor Neims.

Published and distributed by the Upjohn Company.

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1990's -

AMSP/POPS materials developed with Al Ingenito as coordinator and editor, along with coeditor Wallace Wooles.

Committee members Drs. Samuel Strada, Donald Allen, and Adrian Dunn assisted.

Late 1990's, early 2000's – Adrian Dunn curated POPS.

Publications related to the POPS



Development and evaluation of patient-oriented problem-solving materials in pharmacology.

Burford HJ, Ingenito AJ, Williams PB.

Academic Medicine. 1990 Nov;65(11):689-93.

Survey results of POPS use in United States and Canadian schools of medicine and pharmacy.

Ingenito AJ, Wooles WR.

Journal of Clinical Pharmacology. 1995

Feb;35(2):117-27.

Title	Authors	Pub. Date
Complications of Analgesic Therapy	DRH Gourley and WR Wooles	1985
Drug Overdose Toxicity	JF Rogers	1985
Pharmacokinetics Applied to the Treatment of Asthma	KW Renton and AH Neims	1985
Drug Use in the Elderly	G. Singh and JRD Bayne	1992
	Revised by J Franklin and P Williams	1996
Treatment of Cardiac Arrhythmias	EE Bagwell	1993
Treatment of Essential Hypertension	HJ Burford and PB Williams	1993
Drug Therapy of Congestive Heart Failure	PB Williams and AN Ingenito	1992
Cancer Chemotherapy	EM Scholar, RS Kawahara and BG Gordon	1998
Therapy of Diabetes Mellitus	E Chideckel and M Mawhinney	1994
Chemotherapeutic Challenges	Gary K Best	1998
The Treatment of Psychosis	HB Pinkofsky, AJ Dunn et al.	2000
Antimicrobial Chemotherapy	GK Best	1998

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Jan. - Feb., 2014 –

Treatment of Essential Hypertension POPS
updated (JNC8)

Blackboard-compatible

Used in a cardiac pharmacology block for
Pharm. D. students at the University of
Maryland Eastern Shore, School of Pharmacy.

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April, 2014 - teleconference

Carol Beck, DPE chair,

Kelly Karpa, the Committee on Graduate Recruitment and Education liaison to DPE, and John Szarek, International Association of Medical Science Educators liaison to DPE.

Decided this should be a topic for discussion at the DPE business meeting on Tues. April 29.

Would seek volunteers to revise the POPS.

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Why revise?

Continuing need for –

Active learning

Problem solving

Communication

Peer to peer teaching

Interprofessional education

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Latter half 2014, early 2015 –

Volunteer authors recruited

Education Manager hired by ASPET

Proposal for this symposium submitted March, 2015

May, 2015 –

Authors for all but 4 exercises had been recruited

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Summer, 2015 –

ASPET made a call for authors
and reviewers

Fall and winter, 2015 –

All authors assigned and reviewers recruited.

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Peer Reviews –

Rigorous

Anonymous

By experts, including clinician and basic
scientist where possible

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Current status (April, 2016) –

7 complete

2 in copyedit

3 in revision

Structure of the POPS



Introduction to the POPS System – 1 page

Introduction to particular topic and Learning
Objectives – 1-2 pages

Pretest – 10 questions

Structure of the POPS



4 student packets

First review subset of pre-test questions

Proceed to clinical episode

Contain discussion notes (presenter only)
and handouts (all).

Structure of the POPS



Post-test

Post-test answers

PDF File Organization of the POPS



HTN A Intro and Pretest

HTN B Student 1 Green

HTN C Student 2 Tan

HTN D Student 3 Blue

HTN E Student 4 Pink

HTN F Post Test

HTN G Post Test Answers

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Goal of today's session

Familiarize you with the use of the POPS

Procedure

Split into groups of 4

Each member should take role of 1 student

Review pretest questions and answers

Clinical episodes

Post-test

Reconvene for summary and discussion

Facilitators



Treatment of Psychosis. **Gagani Athauda**

Therapy of Diabetes Mellitus. **Jayne Reuben**

Drug Treatment of Heart Failure. **Robb Rockhold**

Treatment of Essential Hypertension. **Mark Simmons**

Treatment of Cardiac Arrhythmias. **June Yun**

Co-chair and evaluator. **Bob Theobald**

San Diego Ballroom B

