### THE PROBLEM WITH THE THREE YEAR MEDICAL SCHOOL

Stanley Goldfarb, MD Associate Dean for Curriculum Perleman School of Medicine at the University of Pennsylvania

### **Objectives**

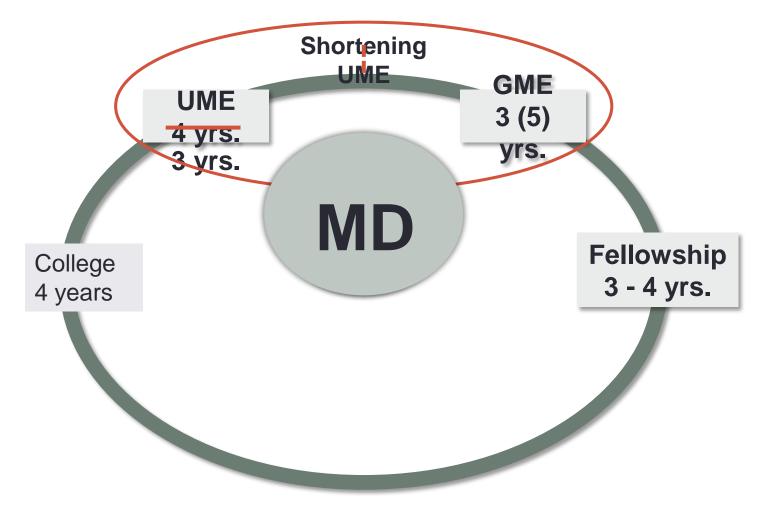
- 1-Detail the current models of UME
- 2- Describe the basis for the historic failure of 3 year medical schools
- 3- Develop a model for enhanced UME

#### What is possible in UME

 WW II- 2 years of Medical School then a tour of the front lines



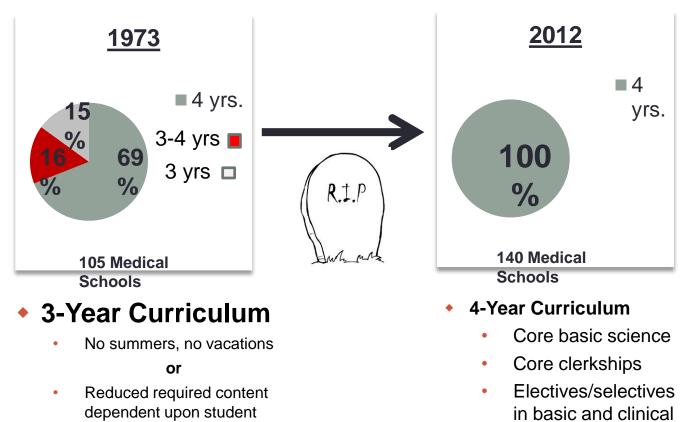
#### Current and Proposed State of Medical Education



### History May Not Repeat But It Rhymes Shortening UME: 1970's

**3-Year Medical Schools** 

needs/interest



science

#### Arizona's 3-Year Curriculum Postmortem

Arizona's Three-Year Medical Curriculum: A Postmortem

Louis J. Kettel, M.D., Sarah M. Dinham, Ph.D., George W. Drach, M.D., and Robert A. Barbee, M.D.

Abstract—The College of Medicine at the University of Arizona was among many medical schools instituting a course of study leading to graduation in three years. Students and faculty found the three-year program to be an unsatisfactory educational experience. Among the major problems were excessive intensity of classroom work, insufficient vacation time, and inadequate time to teach important basic science material. Objective measures of student performance demonstrated no differences between graduates of the new program and students graduating from a traditional four-year curriculum. A process of curriculum review involving students, faculty, and administrators ultimately resulted in several curricular improvements and establishment of a new four-year program.

The faculty of the College of Medicine at the University of Arizona recently abolished its three-year curriculum and instituted a new four-year curriculum as the standard program of study leading to the M.D. degree. In this presentation the authors analyze the change process by reviewing the pressures and incentives leading to a three-year curriculum, the implementation and results of that curriculum, the recent pressures to return to a longer program of study, and the process of

Dr. Kettel is professor of internal medicine and dean, Dr. Dinham is associate professor of educational psychology and director of the Olfice of Medical Education, Dr. Drach is professor of surgery and former chairman of the Curriculum Committee, and Dr. Barbee is associate professor of internal medicine and former associate dean for academic affairs; all are at the College of Medicine, University of Arizona, Tucson.

The faculty of the College of Medicine at changing to the newly adopted four-year the University of Arizona recently abol- curriculum.

#### Influencing Factors

In 1970 an administration-appointed faculty committee reviewed the four-year curriculum initiated with the first class to enter the school in 1967. The group studied educational principles and identified a number of factors to consider in planning an undergraduate medical education program, among which was an effort to make traditional four-year medical curricula more flexible by incorporating additional elective time. Another factor, gaining attention throughout the country, was the changing character of the internship. The totally elective fourth year was coming to be seen as a duplication of the internship, and, in fact, a few schools were waiving the elective fourth year in lieu of satisfactory completion of a "rotating" internship.

The study of educational principles suggested that students might best be allowed Program in place 1972-1976

- Faculty discontent
- Students unhappy
  - "There is virtually no time to do anything but study."
- Lack of free time in curriculum

• But...

- No change in NBME scores
- Competence equal to previous 4 year students

Student satisfaction- ~50% said they would not do it again (AMA survey)- unlike Canadian experience

Journal of Medical Education Vol. 54, March 1979

The research reported here was supported in part by U.S. Public Health Service (Bureau of Health Manpower) grants 038-00433-11 and 090-000756-01. Portions of this paper were presented by the first author in remarks to the Pacific Interurban Clinical Club in Phoenix, Arizona, October 22, 1977.

#### UME: 21<sup>st</sup> Century Issues

- Issues being raised in 2012 are no different than issues raised 47 years ago:
  - 1. ACA (2014) Will result in 30 million more insured individuals
  - 2. AAMC predicts severe workforce shortage
    - 90,000 physician shortage in 2020
    - 130,000 physician shortage in 2025
  - 3. New medical schools being opened
  - Call for increasing class size of existing schools by 30% by 2016
  - 5. Call for producing more primary care physicians
  - 6. Call for shortening medical training (UME?), to increase physician workforce and decrease their educational costs
- What is different about 2012, compared to 1976?

# Some "theoretical" obstacles to three years of UME

- 1- Many students just not ready/mature for such acceleration of UME
- 2- Career choices are often not firm by year 2- difficult to ask students who are taking on huge debt to not have the chance to explore career options
- 3- Specialties are increasingly calling for more specific preparation for selected careers- See Surgery issuing edict for preparation courses.

## What do students think about the current 4<sup>th</sup> Year?

#### Student Perception of the 4<sup>th</sup> Year of Med School

#### 2012 Medical School Graduation Questionnaire

خ AAMC

17. Indicate whether you agree or disagree with the following statements (Scale: 1=Strongly Disagree to 5=Strongly Agree):(Continued)

				Ratings				
		Strongly				Strongly	-	
	]	Disagree	Disagree	Neutral	Agree	Agree	Mean	Count
The final year was	helpful in my	oreparation	for residency.					
All Schools	2008	1.8	4.7	9.9	51.0	32.6	4.1	13,226
All Schools	2009	2.5	6.8	14.6	47.7	28.3	3.9	13,082
All Schools	2010	2.5	6.5	14.7	47.9	28.3	3.9	13,233
All Schools	2011	2.3	4.9	13.0	47.5	32.3	4.0	12,207
All Schools	2012	2.4	4.5	12.6	45.6	35.0	4.1	12,333
							80%	
	·	nhonoing n	w clinical education	n				
The final year was	important for e	mancing n	iy ennical educatio					
The final year was All Schools	2008	1.9	5.3	8.9	47.4	36.5	4.1	13,228
	1	2	•		47.4 46.3	36.5 33.3	4.1 4.0	13,228 13,082
All Schools	2008	1.9	5.3	8.9				<u></u>
All Schools All Schools	2008 2009	1.9 2.2	5.3 5.1	8.9 13.2	46.3	33.3	4.0	13,082



What Do Residency Program Directors Think of the Current Crop of PGY1 Trainees?

# Results of A Survey of 30 PD's –Matched by UCSF Students

٠	ACGME core competency	Common struggle of interns	Program directors reporting struggle
•	Practice-based learning and improvement	Self-reflection and improvement	40 %
•	Patient care	Organization Application of knowledge	33%
•	Professionalism	Responsibility and reliability	30%
•	Medical knowledge	Fund of knowledge	27 %

"PDs deemed the fourth year to have a critical role in the curriculum. There was consensus about expected fourth-year competencies and the common clinical experiences that best prepare students for residency training. These findings support using the fourth year to transition students to graduate medical training and highlight areas for curricular innovation."

Pamela Lyss-Lerman, MD et al Acad Med. 2009; 84:823–829.

#### What Should Be Done

- Strengthen the 4<sup>th</sup> Year
  - Required Sub-Internships
  - Intensive Preparation for PGY-1 when career choices are made
    - "Boot Camps"
    - Research Opportunities
    - Time for assessment of potential training sites
  - Encourage medical students to get supplementary training
    - Public Health
    - Tools of epidemiology
    - Training in ethics
  - Consider fast track programs for appropriate students.