

MSD's Burden on Society Medicare – 57 M lives - \$51.8 B Medicaid – 70 M lives - \$21.8 B Employers – 149 M lives - \$100 B MSD's – account for 4.6% of the U.S. economy (varies 2%-8%) SIEs – cover 55.4% of U.S Healthcare costs

Consensus for Change

Physician Organizations in Support of

Change The American Academy Of Family Physicians

The American College Of Physicians The American College Of Emergency Physicians

The American Academy Of Pediatrics The American Geriatrics Society The American Academy Of Physical Medicine And Rehabilitation

The American Osteopathic Association The American Academy Of Orthopaedic Surgeons

The American College Of Rheumatology

Clawson K, Jackson D, It's past time to reform the musculoskeletal curriculum, Academic Medicine, Vol. 76, No. 7/July 2001

Recommendations of the Committee

a collaborative effort be carried out to assess how well physicians entering practice are prepared to deal with the musculoskeletal problems

medical schools should place more emphasis on these MSD conditions so that young physicians entering their residencies will feel as well prepared to deal with such conditions as they are prepared to deal with problems found in other body systems.

International Conference of the Conference of th Spine Surgeons in the United States

Basta Disco.

C. MD; Sennetz, Richaef R ND; MBlan, Seth K, ND; O'Rourke, Colin HS; Obuchowski, Nancy A, PhD; Wang, Jeff

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Global Core Findings and Recommendations

- Medical students are seldom assessed for their competency to take an appropriate history and examine the musculoskeletal system
- When they have been examined for basic competency, most have failed
- There is a clear need to improve the competency of all doctors in the assessment and management of MSD conditions and the education in most medical schools need to be reconsidered
- It is recommended that one method of assessing the MSD system be taught irrespective of which specialty is teaching it.
- Competency is essential in history and examination and similar approaches are recommended for PCP's, Rheumatologists, Orthopedists, or Rehabilitation specialists.
- . Teaching and training should preferably be integrated, **multidisciplinary**, and ensure a consistent approach to the learning objectives.

Woolf AD, Walsh NE, Global Core recommendations for a musculoskeletal undergraduate curriculum, Ann Rheum Dis 2004, 63: 517-524

The New York Times to Treat Back Pain Health Insurance Deductibles Outpacing Wage Increases, Study Finds Study Healthy Clip The Spine 33 Burning Care 130 Billion Wasted on By REED ABELSON Published: December 30, 2006 A Surplus of Treatment Options, Few of Them Good by USUE BERGER 2014 53% 6 Important Alliance to Fight Health Costs New York Times Health Spending in U.S. Topped \$3 Trillion Last Year

Key points of a review of literature of medical student MSD training

- physicians have received inadequate training during medical school on how to examine, diagnose and manage these conditions(MSD)
- Surveys of students, residents and practicing physicians consistently demonstrate lack of confidence in diagnosing and managing musculoskeletal problems
- Passing scores on Friedman-Berstein for medical and surgical interns, medical practitioners and students low passing rates
- Interviews of students and teachers in medical school have determined that barriers include: students lack of basic MS anatomy knowledge, lack of consistency of what is taught, lack of teacher confidence in MSD clinical teaching, lack of reinforcement of clinical skills

Seetha, U., et.al., Musculoskeletal education in US medical schools: lessons from the past and sugestions for the future, Curr Rev Musculoskelet Med., 2011, Sep: 4(3): 91-98

The New York Times

New York Times

Health Spending in U.S. Topped \$3 Trillion Last Year

Health Insurance Deductibles Outpacing Wage Increases,
Study Finds

SEPT. 22, 2015 Sports Medicine Said to Overuse M.R.I.'s

by GIAN ACLATACCT. 28, 2011

The Boom in M.R.L's: Concerns Grow on Costs and Overuse
By LINDA SASLOW

Published: August 7, 1994

The Spine as Profit Center

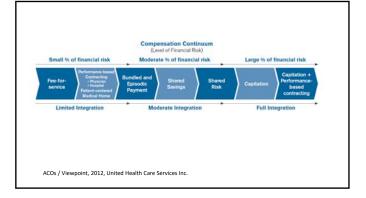
White Paper: Musculoskeletal Disorders, Workforce Health and Productivity in the United States, CWHP, June 2015

"The generally low mortality rates may be one reason why there is less attention and indeed funding for MSD's, as their impact is not viewed as being substantial as those of diseases with higher mortality rates."

Neutralize Drivers of Excessive Care

CMS Quality Measure Development Plan (MDP)

- · Clinical Care



Centers for Medicare and Medicaid Services (CMS) Quality Measure Development Plan (MDP)

MDP provides a strategic framework

for *clinician quality measure development* around the Medicare Merit-Based Incentive Payment System (MIPS) and advanced/eligible Medicare Alternative Payment Models (APMs)

On Solving Problems "We cannot solve our problems with the same thinking we used when we created them.

On Solving Problems



MDT – Reliability, Validity and Clinical Outcomes

Reliability – lumbar spine

Reliability – cervical spine

Reliability - peripheral joints

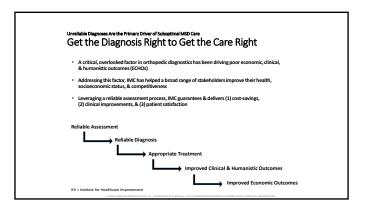
Validity – lumbar spine

Validity – cervical spine

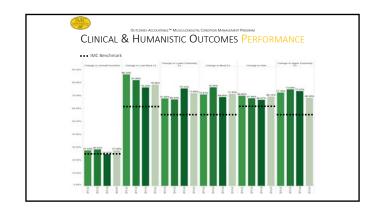
Validity – peripheral joints

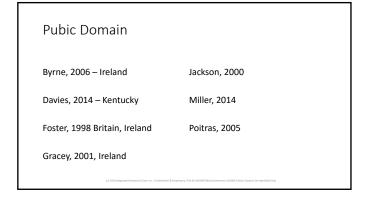
Clinical outcomes

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Public Domain MEDICAL AND TOP COT BASINETS 1907-0-A A comparison of physical therapy, chiropractic manipulation, and provision of an educational booklet for the treatment of patients with low back pain. Chemis INC 1 Cross RA Brief M. Street. Bitters W. Beneuthas INC 10-10 Feb 13-00 Feb 13-00 dox 19-1097885.00000000000117 McKenzie Jumbar classification: inter-rater agreement by physical therapists with different levels of formal McKenzie postgraduate training. Whenever INV 1. Dendarber D. 1941 Ch. Street P. Lafer J. Weedens J. Mechanic J. Street R. 1941 Ch. Street R. 1941 Ch. Street Rev. 2 Control of the Property Inc. 1941 Ch. St







Results, Adjusting for Covariates

Adjusted Model Allowed Fees for Total Costs								
Source	DF	F Value	Pr > F					
TRT	1	4.05	0.0442					
Gender	1	0.06	0.8087					
AGE	1	20.68	<.0001					
RETRO RISK	1	136.04	< .0001					

		Unadjusted and Adjusted ALLOWED FEES						
		Community Care			Mechanical Care			
		(CC)			(MC)			
		N	Mean	Std	N	Mean	Std	p <
TOTAL Unadjuste	ed	4412	2920	7459	165	1387	4342	0.009
TOTAL Adjusted		4412	2905	109*	165	1749	563*	0.045
Ho: Mean CC = Mean MC			Ho: LSMean CC = Lsmean MC					

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Results, Focusing on Cost Savings

• CC Cost/Case = \$2,920 (adj. fig. of \$2,905)

• MC Cost/Case = \$1,387 (adj. fig. of \$1,749)

• Delta Savings/Case = \$1,533 or 52.5%

\$1,533 or 52.5% (adj. fig. of \$1,156 or 39.8%)

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Conclusions

- HCT is now
- Medical Practice = 18 years
- Physician Training and practice
- Current specialist practice
- Conservative care
- MDT

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