## THE PREFERRED CURRICULAR MODEL FOR THE TRANSITION CLINICAL DOCTORAL (t-DPT) PROGRAM AND LEARNER



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## **PREFACE**

This document is a draft of the model curriculum entitled *The Preferred Curricular Model for the Transition Clinical Doctorate (DPT) Program and Learner.* Content experts in a consensus conference using a structured decision-making process developed this curriculum. A total of 33 modules were created representing content considered essential for the licensed physical therapist that may have graduated prior to academic programs awarding the professional clinical doctorate (DPT). The modules reflect content that has been augmented or enhanced during the past 5-10 years. All of the modules are fully congruent with the patient/client management model in the *Guide to Physical Therapist Practice* and the consensus-based educational outcomes and curricular content for professional education in *A Normative Model of Physical Therapist Professional Education: Version 2000.* 

In the left column (Module) of the matrix, the specific module (ie, clinical pharmacology, research methods/design) is identified by name and number. The number indicates the order of the sample module within the overall 33 modules. A description of the module appears in the 2<sup>nd</sup> column (Module Description). The 3<sup>rd</sup> column (Primary Content) is intended to provide guidance for faculty in structuring learning objectives when teaching the module. The far right column (NMV2K Category) provides the educator and practitioner with a cross reference for the comparable primary content within the foundational sciences, behavioral sciences, clinical sciences, and practice expectations (1-19) in *A Normative Model of Physical Therapist Professional Education: Version 2000*.

## **IMPORTANT DEFINITIONS**

**Transition clinical doctorate program**: a postprofessional physical therapist education program that allows the U.S. licensed physical therapist to obtain the clinical doctorate (DPT) by demonstrating knowledge commensurate with that of current professional (entry-level) DPT program outcomes and to do so in a way that takes into full account the learner's knowledge, skills, behaviors, and experience.

**Module:** a subcategory of a traditional content area that allows for specific areas of knowledge and clinical practice to be defined and taught in sections of less than 15-week semesters.

NMV2K: A Normative Model of Physical Therapist Professional Education, Version 2000.

NMV2K4: A Normative Model of Physical Therapist Professional Education, Version 2004.

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
#1 Tissue Biology and Pathology in the Neuromuscular System Tasks: 43, 47, 64, 65, 70, 103, 104	A study of normal and abnormal structure and function of the neuromuscular system throughout the lifespan. Pathological alterations of structure and function including relevant laboratory values and diagnostic tests are included.	<ul> <li>Development of Tissues</li> <li>Anatomical Components</li> <li>Cell Function and Response in Altered States</li> <li>Pathophysiology</li> </ul>	CATEGORY  Foundational Sciences: Cellular Biology/ Anatomy/Histology/ Physiology Neuroscience Pathology Exercise Physiology  Clinical Sciences: Neuromuscular	Foundational Sciences: Biology, Anatomy, Cellular Histology, Physiology Exercise Exercise Physiology Neuroscience Pathology  Clinical Sciences: Neuromuscular  PE: 12 Examination PE 13: Evaluation
#2 Tissue Biology and Pathology in the Musculoskeletal System Tasks: 43, 47, 64, 65, 72, 103, 104	A study of normal and abnormal structure and function of the musculoskeletal system throughout the lifespan. Pathological alterations of structure and function including relevant laboratory values and diagnostic tests are included.	<ul> <li>Development of Tissues</li> <li>Anatomical Components</li> <li>Cell Function and Response in Altered States</li> <li>Pathophysiology</li> </ul>	Foundational Sciences: Cellular Biology/ Anatomy/Histology/ Physiology Neuroscience Pathology Exercise Physiology  Clinical Sciences: Musculoskeletal	Foundational Sciences: Biology, Anatomy, Cellular Histology, Physiology Exercise Exercise Physiology Neuroscience Pathology Pharmacology  Clinical Sciences: Musculoskeletal  PE: 12 Examination PE 13: Evaluation PE 16: Plan of Care
#3 Tissue Biology and Pathology in the Cardiovascular Pulmonary and Lymphatic Systems Tasks: 43, 47, 64, 65, 71, 103, 104	A study of normal and abnormal structure and function of the cardiovascular pulmonary and lymphatic system throughout the lifespan. Pathological alterations of structure and function including relevant laboratory values and diagnostic tests are included.	<ul> <li>Development of Tissues</li> <li>Anatomical Components</li> <li>Cell Function and Response in Altered States</li> <li>Pathophysiology</li> </ul>	Foundational Sciences: Cellular Biology/ Anatomy/Histology/ Physiology Neuroscience Pathology Exercise Physiology  Clinical Sciences: Cardiovascular	Foundational Sciences: Biology, Anatomy, Cellular Histology, Physiology Exercise Exercise Physiology Neuroscience Pathology Clinical Sciences:

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K CATEGORY	NMV2K4 CATEGORY
#3 Tissue Biology and Pathology in the Cardiovascular Pulmonary and Lymphatic Systems (continued)			Pulmonary	Cardiovascular Pulmonary  PE: 12 Examination PE 13: Evaluation PE 19: Prevention, Health Promotion, Fitness, and Wellness
#4 Tissue Biology and Pathology in the Integumentary System Tasks: 43, 47, 64, 65, 73, 103, 104	A study of normal and abnormal structure and function of the integumentary system throughout the lifespan. Pathological alterations of structure and function including relevant laboratory values and diagnostic tests are included.	<ul> <li>Development of Tissues</li> <li>Anatomical Components</li> <li>Cell Function and Response in Altered States</li> <li>Pathophysiology</li> </ul>	Foundational Sciences: Cellular Biology/ Anatomy/Histology/ Physiology Neuroscience Pathology Exercise Physiology  Clinical Sciences: Integumentary	Foundational Sciences: Biology, Anatomy, Cellular Histology, Physiology Exercise Exercise Physiology Neuroscience Pathology  Clinical Sciences: Integumentary  PE: 12 Examination PE 13: Evaluation
#5 Tissue Biology and Pathology in the Gastrointestinal- Hepatic, Genitourinary, Immunology, Hematological, Endocrine Systems  Tasks: 43, 47, 64, 65, 74, 76, 77, 78, 79, 103, 104	A study of normal and abnormal structure and function of the Gastrointestinal-Hepatic, Genitourinary, Immunology, Hematological, Endocrine Systems system throughout the lifespan. Pathological alterations of structure and function including relevant laboratory values and diagnostic tests are included.	<ul> <li>Development of Tissues</li> <li>Anatomical Components</li> <li>Cell Function and Response in Altered States</li> <li>Pathophysiology</li> </ul>	Foundational Sciences: Cellular Biology/ Anatomy/Histology/ Physiology Neuroscience Pathology Exercise Physiology  Clinical Sciences: Gastrointestinal, Genitourinary, Endocrine, and Metabolic	Foundational Sciences: Biology, Anatomy, Cellular Histology, Physiology Exercise Exercise Physiology Neuroscience Pathology  Clinical Sciences: Gastrointestinal, Genitourinary  PE: 12 Examination PE 13: Evaluation

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
#6 Clinical Pharmacology Tasks: 40, 42, 48, 101, 105, 108	The administration, physiologic response, and adverse affects of drugs (eg, prescriptions, over-the-counter medications, nutrients, and herbal supplements) under normal and pathophysiologic conditions across the lifespan. Focus on the influence of drugs on physical therapy patient/client management.	<ul> <li>Pharmacokinetics</li> <li>Administration</li> <li>Absorption</li> <li>Distribution</li> <li>Pharmacodynamics</li> <li>Interaction of drugs with receptors and the associated therapeutic response</li> <li>Implications for physical therapy management</li> <li>Toxicology</li> <li>Adverse physiologic response to drugs</li> </ul>	CATEGORY Foundational Sciences: Pharmacology	Foundational Sciences: Pharmacology
#7 Application of Diagnostic Imaging to Physical Therapy Practice  Tasks: 45, 46, 62, 63	Study of indications and implications of commonly used diagnostic imaging tests (eg, X-ray, MRI, ultrasonography, CT Scan, ultrasound, fluoroscopy, PET scan, endoscopy, etc) as they pertain to patient/client management.	<ul> <li>Indications for diagnostic imaging tests (eg, X-ray, MRI, ultrasonography, CT Scan, ultrasound, fluoroscopy, PET scan, endoscopy, etc)</li> <li>Abnormal findings of diagnostic imaging tests</li> <li>Understanding technology underlying the diagnostic imaging tests</li> </ul>	Foundational Sciences: Exercise Physiology Pathology  Patient/Client Management Model	Foundational Sciences: Neuroanatomy Pathology  Clinical Sciences: Cardiovascular and Pulmonary Endocrine Metabolic, Gastrointestinal, Genitourinary Integumentary Musculoskeletal Neuromuscular  Patient/Client Management PE 13: Evaluation
#8 Research Methods/Design  Tasks: 17, 19, 21, 22, 23, 24, 25, 26, 41, 113, 114, 116, 117, 138	Basic quantitative and qualitative and epidemiologic methods and designs, including basic biostatistics, concepts of reliability and validity, critical appraisal of literature, and the development of a research proposal and clinical guidelines.	<ul> <li>Biostatistics</li> <li>Data management</li> <li>Computerized statistics analysis</li> <li>Interpretation of results of analysis</li> <li>Assessment of appropriateness of test analyses</li> </ul>	Foundational Sciences: Application of Scientific Principles to Practice  PE 4: Critical Inquiry and Critical Decision-Making	Foundational Sciences:     Evidenced-Based     Practice  Professional PE 9:     Evidenced-Based     Practice

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
110			CATEGORY	
#8 Research Methods/Design (continued)		<ul> <li>Informed Consent</li> <li>Epidemiologic Designs</li> <li>Types of designs, (eg, cohort and case/control)</li> <li>Quantitative Design</li> <li>Experimental</li> <li>Quasi-experimental</li> <li>Descriptive</li> <li>Case report</li> <li>Qualitative Designs</li> <li>Phenomenology</li> <li>Grounded theory</li> <li>Ethnography</li> <li>Case report</li> <li>Critical Appraisal of Literature</li> <li>Conceptual framework</li> <li>Development of argument and question/hypothesis</li> <li>Internal validity as relates to articles related to diagnosis, prognosis, intervention and harm</li> <li>Validity of conclusions and usefulness of study</li> <li>Measurement (reliability and validity)</li> <li>Proposal Development</li> <li>Clinical Guidelines</li> </ul>		
#9 Evidence-Based Clinical Decision- Making Tasks: 18, 20, 27, 41, 58, 65, 82, 112, 115	Evidence-based clinical decision-making, including locating and accessing sources of evidence, evaluating levels of evidence, applying evidence to clinical practice and integrating evidence, patient values and preferences and clinical experience.	Sackett's Model     Developing clinical question     Finding information     access information using technology     literacy competency     Evaluating and interpreting information     levels of evidence	Foundational Sciences: Application of Scientific Principles to Practice  Patient/Client Management Model  PE 4: Critical Inquiry and Critical Decision-Making	Foundation Sciences: Clinical Reasoning PE 8: Clinical Reasoning PE 9: Evidenced Based- Practice PE 14: Diagnosis

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
#9 Evidence-Based Clinical Decision- Making (continued)		and weighing of evidence (eg clinical guidelines, RCT's, and systematic reviews  Applying information to practice Integration of evidence, patient values and preferences, and clinical experience	CATEGORY	
#10 Teaching & Learning Theory Tasks: 28, 29, 30, 31	Teaching and learning theory, including discussion of teaching and learning theories, motivational theory, and social-motivational theory as they apply to practice across multiple environments.	<ul> <li>Pedagogical (Juvenile)</li> <li>Andragogical (Adult)</li> <li>Learning Styles</li> <li>Motor Learning Theory</li> <li>Social-Motivational Theory (Patient/Client Adherence)</li> </ul>	Behavioral Sciences: Teaching and Learning	Foundation Sciences: Teaching and Learning  PE 10: Education PE 23: Social Responsibility and Advocacy
#11 Theories of Health and Wellness Tasks: 111, 125, 126, 129	Theories of health and wellness, including motivational theory, locus of control, public health initiatives, and psychosocial, spiritual, and cultural considerations.	<ul> <li>Modeling</li> <li>Motivational Theory Behavior Modification</li> <li>Locus of Control</li> <li>Public Health Initiatives</li> <li>Psychosocial and Spiritual Considerations</li> </ul>	Behavioral Sciences: Social and Psychological Factors	Foundational Sciences:     Social and Psychologic     Factors  PE 1: Accountability     PE 5: Professional Duty     PE 19: Prevention, Health     Promotion, Fitness, and     Wellness     PE 23: Social     Responsibility and     Advocacy
#12 Health Risks Screening and Assessment Tasks: 6, 16, 35, 36, 118,	Health risks, screening, and assessment considering epidemiological principles.	<ul> <li>Risk factors for general and special populations</li> <li>Epidemiological principles</li> <li>Cultural risks</li> <li>Environmental risks</li> </ul>	Foundational Sciences: Pathology/ Epidemiology Neuroscience Exercise Science	Foundational Sciences: Pathology Evidenced-Based Practice – Epidemiology

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
122, 125, 126		<ul> <li>Lifestyle choice risks</li> <li>Occupational risks</li> <li>Avocation risks</li> <li>Pharmacological and nutritional risks</li> <li>Screen/assessment measures (eg, flexibility, strength, cardiovascular, anthropometrics, balance, and coordination)</li> </ul>	Pharmacology Exercise Physiology  Clinical Sciences: All  Behavioral Sciences: Social and Psychologic Factors  PE 2: Individual and Cultural Differences PE 7: Screening	Behavioral Sciences:     Social and Psychologic     Factors PE 5: Professional Duty PE 11: Screening PE 13: Evaluation PE 14: Diagnosis PE 15: Prognosis PE 19: Prevention, Health Promotion, Fitness, and Wellness PE 20: Management of Care Delivery PE 22: Consultation PE 23: Social Responsibility and Advocacy
#13 Communication and Cultural Competencies  Tasks: 2, 3, 4, 6, 7, 8, 9, 87, 127	Communication and cultural competencies, including principles of professional communication and cultural competencies, conflict resolution, negotiation skills, networking, and awareness of cultural differences.	<ul> <li>Professional         Communications</li> <li>Principles of Oral and         Written Communications</li> <li>Communication with Others</li> <li>Negotiation</li> <li>Conflict Resolution</li> <li>Networking</li> <li>Awareness of Self Within a         Culture</li> <li>Awareness of Other         Cultures</li> <li>Value of Individual         Differences</li> <li>Interaction with Individuals         of Different Cultures         (Sensitivity, Tolerance, and         Respect)</li> </ul>	Behavioral Sciences: Communication Social and Psychological Factors  PE 1: Communication PE 2: Individual and Cultural Differences	Behavioral Sciences: Communication Social and Psychologic Factors  PE 1: Communication PE 2: Altruism PE 4: Integrity PE 6: Communication PE 7: Cultural Competence PE 10: Education PE 12: Examination PE 23: Social Responsibility and Advocacy
#14 Role, Responsibility, and Accountability I	Role, responsibility, and accountability of the physical therapist, including application of ethical analysis and	<ul><li>Ethics</li><li>Concepts of Professional Duties, Rights, Obligations</li></ul>	Behavioral Sciences: Ethics and Values Sociology	

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K CATEGORY	NMV2K4 CATEGORY
Tasks: 13, 15, 57, 68, 88, 89, 90, 94, 115, 124, 137	decision-making in physical therapist practice.	<ul> <li>Tools of Ethical Analysis and Decision-Making</li> <li>Values Clarification (Personal Core Values versus Professional Core Values)</li> <li>Ethical Theory</li> </ul>	PE 3: Professional Behaviors	
#15 Role of an Educator Tasks: 28, 29, 30, 31	Role of the educator in the academic and clinical environment, including strategies for needs assessment, learning experiences, and evaluation of learning and outcomes assessment. Use of technology is emphasized.	<ul> <li>Didactic and Clinical Teaching Methods</li> <li>Patients/Clients, Community, Students, Other Professionals</li> <li>Educational Needs Assessment</li> <li>Design of Learning Experiences</li> <li>Learning and Outcomes Assessment</li> <li>Educational Technology</li> </ul>	Behavioral Sciences: Teaching and Learning PE 5: Education	Behavioral Sciences: Teaching and Learning  PE 5: Professional Duty PE 10: Education PE 17: Intervention PE 23: Social Responsibility and Advocacy
#16 Clinical Reasoning and Diagnostic Decision- Making Tasks: Tasks: 1, 13, 17, 26, 35, 36, 38, 39, 40, 49, 56, 59, 60, 61, 65, 66, 67, 69, 102, 125, 126, 129	Theories and concepts of clinical decision-making and diagnosis. Clinical reasoning including hypothesis generation and refinement applied within the context of the physical therapist patient/client management model. Principles of evidence-based decision-making, primary and secondary prevention and management across the lifespan.	<ul> <li>Generating Hypothesis</li> <li>Clustering Signs and Symptoms</li> <li>Making Decision Using Clinical Algorithms</li> <li>Making Clinical Judgments (Evaluation) Based on Examination Findings</li> </ul>	Foundational Sciences: Application of Scientific Principles to Practice  Clinical Sciences: All  PE 4: Critical Inquiry and Critical Decision- Making	Foundation Sciences:     Pathology  Behavioral Sciences:     Clinical Reasoning     Evidenced-Based     Practice  Clinical Sciences: All  PE 8: Clinical Reasoning     PE 9: Evidenced-Based     Practice  PE 12: Examination     PE 13: Evaluation     PE 14: Diagnosis     PE 15: Prognosis     PE 18: Outcomes     Assessment

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K CATEGORY	NMV2K4 CATEGORY
#17 Examination: Health Systems Screening For Pathophysiology  Tasks: 35, 36, 37, 39, 40, 45, 49, 56, 68, 118, 122	Conduct a physical therapy interview to identify pertinent personal/family history, risk factors, and co-morbidities that guide the plan of care (eg, prevention, interventions, and referral). Evaluate information gathered from the patient/client interview to identify involvement of the body systems and to identify relevant test and measures.	<ul> <li>History</li> <li>Systems Review</li> <li>Identified Co-morbidities</li> <li>Identified Risk Factors</li> <li>Identified Threshold for Referral</li> </ul>	Foundational Sciences: Pathology Application of Scientific Principles to Practice  Clinical Sciences: All  PE 7: Screening PE 8: Examination PE 9: Evaluation	Foundational Sciences:     Pathology  Behavioral Sciences:     Communication     Evidence-Based     Practice     Social and Psychologic     Factors  Clinical Sciences: All  PE 1: Accountability     PE 3: Compassion/     Caring     PE 6: Communication     PE 11: Screening     PE 12: Examination     PE 13: Evaluation     PE 14: Diagnosis     PE 15: Prognosis     PE 19: Prevention, Health     Promotion, Fitness, and     Wellness     PE 20: Management of     Care Delivery     PE 21: Practice     Management
#18 Systems Review Tasks: 35, 36, 37, 45, 51, 52, 53, 54, 55, 118	Conduct systems review to identify anatomical and physiological status of the musculoskeletal, neuromuscular, cardiovascular pulmonary and integumentary systems and communication, affect, cognition, and learning styles. Includes concepts of reliability and validity of the screening tests as they relate to physical therapy patient/client management.	<ul> <li>Healthy Screen</li> <li>Normative Values Across         The Lifespan     </li> <li>Identification of Signs and         Symptoms or Health Risks         That Require Further         Examination or Referral     </li> </ul>	Foundational Sciences: Pathology  Clinical Sciences: All  PE 7: Screening PE 8: Examination PE 9: Evaluation	Foundational Sciences: Pathology  Clinical Sciences: All  PE 8: Clinical Reasoning PE 9: Evidenced-Based Practice PE 11: Screening PE 12: Examination PE 13: Evaluation PE 18: Outcomes Assessment

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
#18 Systems Review (continued)			CATEGORY	PE 23: Prevention, Wellness, Health Promotion, and Fitness
#19 Tests and Measures Tasks: 38, 41, 58, 102	Relevant test and measures for determining impairment and differentiating the diagnosis based on the specificity and sensitivity of the instrument.	Reliability and Validity (eg, Sensitivity and Specificity)	Foundational Sciences: Pathology  PE 7: Screening PE 8: Examination PE 9: Evaluation PE 10: Diagnosis	Behavioral Sciences:     Evidenced-Based     Practice  Clinical Sciences:     Neuromuscular  PE 9: Evidenced-Based Practice PE 11: Screening PE 12: Examination PE 13: Evaluation PE 14: Diagnosis PE 18: Outcomes Assessment
#20 Evidenced-Based Prognosis, Prevention, and Plan of Care Tasks: 18, 26, 36, 59, 60, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 120, 125, 126, 129	Concepts related to developing a prognosis including understanding of the natural history of disease and use of epidemiological data. Discussion of intrinsic, environmental, and social patient factors impacting outcomes and plan of care. Prevention of anticipated health problems based on modifiable risks factors	<ul> <li>Understand Natural History of Disease</li> <li>Use Of Evidence To Project Outcome Of Intervention</li> <li>Intrinsic Aspects That Impact Outcomes (eg, biopsychosocial, spiritual, gender, age, co-morbidities, familial risk factors, etc)</li> <li>Extrinsic Aspects That Impact Outcomes (eg, environmental, epidemiologic, socioeconomic, life style factors, etc)</li> <li>Modification of Prognosis Based on Patient/Client Response to Intervention or Anticipated Response to Intervention</li> <li>Application of Prognosis to Preventive Care and</li> </ul>	Understand Natural History of Disease     Use Of Evidence To Project Outcome Of Intervention     Intrinsic Aspects That Impact Outcomes (eg, biopsychosocial, spiritual, gender, age, co-morbidities, familial risk factors, etc)     Extrinsic Aspects That Impact Outcomes (eg, environmental, epidemiologic, socioeconomic, life style factors, etc)     Modification of Prognosis Based on	Foundational Sciences:     Pathology     Exercise Science  Behavioral Sciences     Evidenced-Based     Practice     Social and Psychologic     Factors  Clinical Sciences: All  PE 7: Cultural Competence     PE 9: Evidenced-based     Practice     PE 11: Screening     PE 13: Evaluation     PE 14: Diagnosis     PE 15: Prognosis     PE 16: Plan of Care     PE 17: Intervention     PE 18: Outcomes

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
			CATEGORY	
#20 Evidenced-Based Prognosis, Prevention, and Plan of Care (continued)		Secondary Conditions	Patient/Client Response to Intervention or Anticipated Response to Intervention • Application of Prognosis to Preventive Care and Secondary Conditions	Assessment PE 19: Prevention, Health Promotion, Fitness, and Wellness PE 20: Management of Care Delivery PE 21: Practice Management PE 23: Social Responsibility and Advocacy
#21 Coordination and Provision of Evidenced-Based Interventions Across the Lifespan  Neuromuscular System  Tasks: 26, 36, 96, 97, 98, 99, 100, 106, 107, 109, 110, 127	Use of evidenced-based physical therapy interventions for neuromuscular conditions. Focus on analyzing and comparing contemporary and traditional interventions and the impact of evolving technology.	<ul> <li>Motor Control</li> <li>Early Intervention</li> <li>Vestibular System</li> <li>Technological Advances in Medical/Surgical Procedures</li> </ul>	Foundational Sciences: Pathology Application of Scientific Principles to Practice Neuroscience Clinical Sciences: Neuromuscular PE 13: Intervention	Foundational Sciences:     Exercise Physiology     Neuroscience     Pathology  Behavioral Sciences:     Evidenced-Based     Practice  Clinical Sciences:     Neuromuscular  PE 3: Compassion/ Caring     PE 9: Evidenced-Based     Practice  PE 12: Examination     PE 13: Evaluation     PE 14: Diagnosis

MODULE	MODULE DESCRIPTION		PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
				CATEGORY	
#22 Coordination and Provision Evidenced- Based Interventions Across the Lifespan  Musculoskeletal System  Tasks: 26, 36, 96, 97, 98, 99, 100, 106, 107, 109, 110, 127	Use of evidenced-based physical therapy interventions for musculoskeletal conditions. Focus on analyzing and comparing contemporary and traditional interventions and the impact of evolving technology.	•	Pelvic Floor Dysfunction Mobilization/Manipulation Technological Advances in Medical/Surgical Procedures	Foundational Sciences: Pathology Application of Scientific Principles to Practice Biomechanics Kinesiology  Clinical Sciences: Musculoskeletal  PE 13: Intervention	Foundational Sciences: Biomechanics Exercise Physiology Kinesiology Pathology  Behavioral Sciences: Evidenced-Based Practice  Clinical Sciences: Musculoskeletal Cardiovascular Pulmonary  PE 12: Examination PE 16: Plan of Care PE 17: Intervention
#23 Coordination and Provision Evidenced- Based Interventions Across the Lifespan  Cardiovascular Pulmonary and Lymphatic Systems  Tasks: 26, 36, 96, 97, 98, 99, 100, 106, 107, 109, 110, 127	Use of evidenced-based physical therapy interventions for cardiovascular pulmonary and lymphatic conditions. Focus on analyzing and comparing the application of exercise interventions to nontraditional populations.	•	Endurance conditioning Lymphedema management Technological Advances in Medical/Surgical Procedures	Foundational Sciences: Pathology Application of Scientific Principles to Practice Exercise Physiology Exercise Science  Clinical Sciences: Cardiovascular and Pulmonary  PE 13: Intervention	Foundational Sciences: Biology/Anatomy, Cellular Histology, Physiology Biomechanics Exercise Physiology Exercise Science Pathology  Behavioral Sciences: Evidenced-Based Practice  Clinical Sciences: Cardiovascular/ Pulmonary  PE 12: Examination PE 16: Plan of Care PE 17: Intervention PE 19: Prevention, Health Promotion, Fitness, and Wellness

MODULE	MODULE DESCRIPTION	_	PRIMARY CONTENT	NMV2K CATEGORY	NMV2K4 CATEGORY
#24 Coordination and Provision Evidenced- Based Interventions Across the Lifespan Integumentary System Tasks: 26, 36, 96, 97, 98, 99, 100, 106, 107, 109, 110, 127	Use of evidence-based physical therapy interventions to enhance, repair, and protect the integument.	•	Wound management Technological Advances in Medical/Surgical Procedures	Foundational Sciences: Pathology Application of Scientific Principles to Practice  Clinical Sciences: Integumentary  PE 13: Intervention	Foundational Sciences: Biology/Anatomy, Cellular Histology, Physiology Exercise Physiology Exercise Science Pathology  Behavioral Sciences: Evidenced-Based Practice  Clinical Sciences: Integumentary  PE 12: Examination PE 16: Plan of Care PE 17: Intervention
#25 Coordination and Provision Evidenced- Based Interventions Across the Lifespan  Other Systems  Tasks: 26, 36, 96, 97, 98, 99, 100, 106, 107, 109, 110, 127	Use of evidenced-based physical therapy interventions for the Gastrointestinal-Hepatic, Genitourinary, Immunology, Hematological, Endocrine Systems (eg, diabetes, obesity, eating disorders, fibromyalgia, and renal disease). The impact of medical/surgical procedures on physical therapy interventions.	•	Diabetes management Obesity Eating disorders Fibromyalgia Renal disease Technological Advances in Medical/Surgical Procedures	Foundational Sciences: Pathology Application of Scientific Principles to Practice Exercise Physiology  Clinical Sciences: Endocrine and Metabolic Gastrointestinal Genitourinary  PE 13: Intervention	Foundational Sciences: Pathology Evidenced-Based Practice Exercise Physiology  Behavioral Sciences: Social and Psychologic Factors  Clinical Sciences: Endocrine and Metabolic Gastrointestinal Genitourinary  PE: 12 Examination PE 13: Plan of Care PE 17: Intervention PE 19: Prevention, Health Promotion, Fitness, and Wellness

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K CATEGORY	NMV2K4 CATEGORY
#26 Use and Interpretation of Outcome Measures Tasks: 45, 112, 113, 114, 115, 116, 117, 121	Outcome measures relating to functional disability, general health status, and patient/client satisfaction used to assess and guide physical therapy management. Importance of key measurement properties (reliability, validity, and responsiveness) and strategies to assess and select between various scales for clinical practice.	<ul> <li>Psychometric Properties of Outcomes Measures</li> <li>Functional Disability</li> <li>Health Status Measures</li> <li>Patient Satisfaction</li> <li>Quality of Life</li> </ul>	Foundational Sciences: Application of Scientific Principles to Practice  Clinical Sciences: All  PE 8: Examination  PE 14: Outcomes Assessment and Evaluation	Behavioral Sciences:     Evidence-Based     Practice  PE 7: Cultural Competence PE 9: Evidence-Based Practice PE 13: Evaluation PE 15: Prognosis PE 17: Intervention PE 18: Outcomes Assessment PE 19: Prevention, Health Promotion, Fitness, and Wellness
#27 Risk Reduction  Tasks: 16, 87, 89, 90, 91, 92, 93, 111, 114, 119, 120, 121, 123, 124, 125, 126, 127, 128, 129	Risk reduction strategies for primary and secondary prevention, including programs for special populations.	<ul> <li>Primary And Secondary Prevention</li> <li>Exercise Prescription</li> <li>Special Population Programs (Fall Reduction, Weight Reduction, Accident Prevention, Performance Enhancement)</li> </ul>	Foundational Sciences: Pathology Neuroscience Exercise Physiology Exercise Science  Behavioral Sciences: Social and Psychologic Factors  Clinical Sciences: All  PE: 15: Prevention, Health Promotion, Fitness, and Wellness	Foundational Sciences: Exercise Physiology Exercise Science  Behavioral Sciences Social and Psychologic Factors  PE 11: Screening PE 19: Prevention, Health Promotion, Fitness, and Wellness
#28 Delivery Systems Legislation, and Regulation  Tasks: 124, 129, 142, 143, 144, 147	Delivery systems, legislation, and regulation, including measuring access to and outcomes of different healthcare delivery models, public health policy, political systems, reimbursement models, ethical issues, and advocacy to improve healthcare policy.	<ul> <li>Comparison of Models (American &amp; Other)</li> <li>Ethical/Legal Issues</li> <li>Outcomes</li> <li>Access</li> <li>Public Health Policy (ADA, Oasis, Uninsured)</li> <li>Political Systems</li> <li>Reimbursement Models</li> </ul>	Behavioral Sciences: Ethics and Values Law Management Science PE 16: Management of Care Delivery Systems	Behavioral Sciences: Ethics and Values Law  PE 1: Accountability PE 2: Altruism PE 4: Integrity PE 5: Professional Duty PE 8: Clinical Reasoning

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
		Advocacy     Promoting Profession     Promoting Consumer     Needs	PE 17: Administration and Business Management  PE19: Social Responsibility and Advocacy	PE 9: Evidenced-Based Practice PE 11: Screening PE 16: Plan of Care PE 17: Intervention PE 18: Outcomes Assessment PE 20: Management of Care Delivery PE 21: Practice Management PE 22: Consultation PE 23: Social Responsibility and Advocacy
#29 Business Planning Tasks: 90, 92, 117, 123, 128, 130, 131, 132, 133, 138	Business planning, including strategic planning, financial management, personnel management, and physical resource management.	<ul> <li>Strategic Planning</li> <li>Analysis of Community Needs</li> <li>Principles of Strategic Planning</li> <li>Financial Management</li> <li>Principles of Accounting</li> <li>Organizational Models</li> <li>Reimbursement</li> <li>Personnel Management</li> <li>Staffing Patterns</li> <li>Productivity</li> <li>Risk Management</li> <li>Quality Assurance</li> <li>Physical Resources</li> <li>Equipment &amp; Space Needs</li> <li>Allocation</li> <li>Maintenance</li> </ul>	Behavioral Sciences: Finance Management Science  PE 17: Administration and Business Management	Behavioral Sciences: Law Management Sciences  PE 2: Altruism PE 14: Diagnosis PE 21: Practice Management PE 22: Consultation PE 23: Social Responsibility and Advocacy
#30 Corporate/Legal & Regulatory Factors Task: 137	Corporate/Legal and Regulatory Factors, including liability, risk management, and regulation (eg, state practice acts and various accrediting agencies such as JCAHO and	<ul> <li>Liability</li> <li>Risk Management</li> <li>Regulation</li> <li>➤ Practice Acts</li> <li>➤ Accrediting Agencies</li> </ul>	Behavioral Sciences: Law  PE 16: Management of Care Delivery Systems	Behavioral Sciences: Law  PE 1: Accountability PE 2: Altruism PE 15: Prognosis

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
#20	CARE		CATEGORY	DE 04: Departies
#30 Corporate/Legal & Regulatory Factors (continued)	CARF).		PE 17: Administration and Business Management	PE 21: Practice Management PE 23: Social Responsibility and Advocacy
#31 Communication Skills in Business Management Tasks: 5, 15, 135, 136, 139, 140, 141	Communication skills in business management, including networking, advocacy, conflict management, negotiation, and consultation. Use of technology is emphasized.	<ul> <li>Advocacy Skills</li> <li>Conflict Management Skills</li> <li>Negotiation Skills</li> <li>Networking Skills</li> <li>Consultation Skills</li> <li>Technology</li> </ul>	Behavioral Sciences: Management Science Communication Social and Psychologic Factors Ethics and Values  PE 18: Consultation  PE 19: Social Responsibility and Advocacy	Behavioral Sciences:     Management Sciences  PE 6: Communication  PE 21: Practice Management
#32 Marketing & Public Relations Tasks: 11, 14, 117, 134, 138	Marketing and public relations, including principles of marketing, marketing strategies, public relations, and methods to assess marketing effectiveness.	<ul> <li>Principles of Marketing To Internal &amp; External Groups</li> <li>Marketing Strategies for Different Practice Settings</li> <li>Public Relations Approaches to External Groups</li> <li>Methods of Assessing Effectiveness of Marketing Strategies</li> </ul>	Behavioral Sciences: Communication  PE 17: Administration and Business Management	Behavioral Sciences: Communication  PE 21: Practice Management  PE 23: Social Responsibility and Advocacy
#33 Role, Responsibility, and Accountability II Tasks: 10, 11, 12, 14, 15, 32, 33, 34, 123, 139, 142, 143, 144, 145, 146, 147, 148	Role, responsibility, and accountability of the physical therapist in the current healthcare environment.	<ul> <li>Professional Identity</li> <li>Value System of the Profession</li> <li>Autonomy</li> <li>Comparison with Other Health Professions</li> <li>Social/Political Context for Professions</li> <li>Professional Virtues</li> </ul>	Behavioral Sciences: Sociology Social and Psychologic Factors  PE 3: Professional Behaviors  PE 19: Social	Behavioral Sciences:     Social and     Psychologic Factors  PE 1: Accountability PE 2: Altruism PE 3: Compassion/ Caring PE 4: Integrity

MODULE	MODULE DESCRIPTION	PRIMARY CONTENT	NMV2K	NMV2K4 CATEGORY
		<ul> <li>(meeting Societal and Professional needs)</li> <li>Professional Development</li> <li>Understanding of reflective practice (continued competency, lifelong learning)</li> <li>Collaboration</li> <li>Inter-Professional communication &amp; collaboration</li> <li>Intra-Professional communication &amp; collaboration</li> <li>Knowledge of Advocacy Systems and Strategies (Related to Professional, Community, and Patient/Client Needs)</li> </ul>	CATEGORY Responsibility and Advocacy	PE 5: Professional Duty PE 23: Social Responsibility and Advocacy