Curriculum Vitae Carey Lane Holleran MPT, DHS Board Certified in Neurologic Physical Therapy

Date: July 1, 2023

Address and Telephone Numbers:

Office

Program in Physical Therapy

Washington University School of Medicine

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Present Position

Associate Professor of Physical Therapy and Neurology Washington University Program in Physical Therapy, St. Louis, MO Assistant Director of Student Assessment and Program Evaluation Washington University Program in Physical Therapy, St. Louis, MO

Physical Therapist, Outpatient Neurologic Physical Therapy

Washington University Physical Therapy at TRISL, St. Louis, MO

Education

2003 Bachelor of Health Science (BS)Duquesne University, Pittsburgh, PA

2004 Master of Physical Therapy (MPT)

Duquesne University, Pittsburgh, PA

2014 Doctor of Health Science (DHS), Neurology and Higher Education

University of Indianapolis, IN

Academic Positions / Employment

2013-2015 Lecturer

Department of Physical Therapy and Department of Kinesiology and

Nutrition

University of Illinois in Chicago

Chicago, IL

2015-2016 Contract Educator

Physical Therapy and Human Movement Science Program

Northwestern University

Chicago, IL

2015-2016 Co-Director for Neurologic Physical Therapy Residency

Northwestern University and Shirley Ryan Ability Lab

Chicago, IL

University, School of Medicine and Hospital Appointments and Committees

2018-2019 Learning Science Committee Member, DPT Program
2019 Curriculum Renewal Architecture Team Lead, DPT Program

2019-present Curriculum Design Team, DPT Program

2020 Learner Assessment for Program Leaders, Washington University School

of Medicine

2020 Teaching Scholars Program, Washington University School of Medicine 2020-present Physical Therapy Inclusion and Diversity, Program in Physical Therapy Academy of Educators, Washington University School of Medicine

2022 Methods in Education Scholarship Certificate Program

Professional Licensure and Certification

2011-present Physical Therapist License # 2011011358

Missouri Board of Registration for the Healing Arts

2016 Certified Clinical Instructor

American Physical Therapy Association

2007-present Board Certified Specialist in Neurology

American Board of Physical Therapy Specialties

2017 Re-Certified Board Certified Specialist in Neurology

American Board of Physical Therapy Specialties

Clinical Title and Responsibilities

2004-2006 Physical Therapist

University of Pittsburgh Medical Center, Pittsburgh, PA

Inpatient Spinal Cord Injury Model Systems Program

2007-2016 Physical Therapist

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab), Chicago, IL

Inpatient Spinal Cord Injury Model Systems Program

2009-2016 Clinical Research Coordinator and Research Physical Therapist

Locomotor Recovery Laboratory, Sensory Motor Performance Program,

Rehabilitation Institute of Chicago, Chicago, IL

2015-2016 Clinical Practice Leader for Neurologic Physical Therapy

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab), Chicago, IL

2017-2019 Physical Therapist

The Rehabilitation Institute of St. Louis, St. Louis, MO

Inpatient Float Therapist

2019-present Physical Therapist

Washington University Physical Therapy – @4240, St. Louis, MO

Outpatient Neurologic Physical Therapist

Teaching Title and Responsibilities

2016-present Laboratory Assistant and Practical Examiner

Professional DPT courses: Essential Clinical Skills I; Diagnosis &

Management of Neuromuscular Conditions I; Diagnosis & Management of Neuromuscular Conditions II; Professional Issues & Skills Development I;

Professional Issues & Skills Development III

2016-present Lecturer

Professional DPT courses: Diagnosis & Management of Neuromuscular

Conditions II; Professional Issues & Skills Development III; Case

Integration III

2018-present Guest Lecturer

Undergraduate Department of Biology: Introduction to Health Professions

2017-present Course Assistant

Essential Clinical Skills I

2017-present Mentor/Advisor

Professional DPT courses: Case Integration I; Case Integration II; Case

Integration III; Diagnosis, Evidence & Analysis III

2020 Course Assistant

Professional Issues & Skills Development I

2021-present Ethics and Humanities Thread Lead

Program in Physical Therapy, School of Medicine

Honors and Awards

2008-2009 Donnelly Family Disability Ethics Scholar

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab)

2009 Magnuson Award Finalist

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab)

2011 Henry Betts Award for Clinical Research Innovation

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab)

2014 Brown Fellowship Research Award

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab)

2015 Sarah Baskin Research Excellence Award for Clinician Researcher

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab)

2015 Chattanooga Research Award for Best Clinical Research Article

Published in Physical Therapy

American Physical Therapy Association

2021 Academy of Educators

Washington University School of Medicine

2021 Excellence in Neurologic Education Award Nominee

Academy of Neurologic Physical Therapy

2022 Medical Education Research Unit Small Grant Awardee

Washington University School of Medicine

Editorial Responsibilities

2015-present Reviewer

Journal of Neurologic Physical Therapy

2018 Invited Review

Journal of Neurologic Physical Therapy

"A Core Set of Outcome Measures for Adults with Neurologic Conditions

Undergoing Rehabilitation - Clinical Practice Guideline"

2019 Invited Review

Consortium for Spinal Cord Medicine

"Clinical Practice Guideline for Mental Health Disorders, Substance Use

Disorders, and Suicide in Adults with Spinal Cord Injury"

2019-present Reviewer

Archives of Physical Medicine and Rehabilitation

2020-present Reviewer

Neurorehabilitation Neural Repair

2020-present Reviewer

The Journal of Spinal Cord Medicine

National Panels, Committees, Boards

2009-2014 Item Writer, Neurologic Certified Specialists Examination

American Board of Physical Therapy Specialties

2014 Standard Settings for Neurologic Certified Examination

National Board of Medical Examiners

Academy of Neurologic Physical Therapy

2017-2018 Critical Appraiser and Data Extractor

Locomotor Clinical Practice Guideline for Chronic Incomplete Spinal Cord

Injury, Stroke, and Traumatic Brain Injury

2018-2023 Co-Chair Knowledge Translation Task Force for the Locomotor Clinical

Practical Guideline

Academy of Neurologic Physical Therapy

2019-2023 National Campaign Co-Chair

Academy of Neurologic Physical Therapy

"Intensity Matters"

National, University, School of Medicine Service

Committees and activities

2017 Interprofessional Education Experiences, Center for Interprofessional

Practice and Education, School of Medicine

2018-present Camp Neuro

Washington University School of Medicine

2018-present Cross-Campus Educational Research Group (C2ERG)

2018-present Co-Course Coordinator

Biennial Clinical Instructor's Meeting

Washington University, Program in Physical Therapy, St. Louis, MO

2019 Poverty Simulation, Center for Interprofessional Practice and Education,

School of Medicine

2020-present Phase 1 Small Group Facilitator

Center for Interprofessional Education and Education, School of Medicine

2021 BESt Student Summer Program, Washington University School of

Medicine

Multicultural high school student shadow program

2022-present Mentorship Committee

Washington University School of Medicine, Academy of Educators

Professional Societies and Organizations

2004-present American Physical Therapy Association Member

2006-present Academy of Neurologic Physical Therapy Section Member

2012-2013 Practice Excellence Committee Co-Chair

Illinois Physical Therapy Association

2015-present Academy of Neurologic Physical Therapy Section, Spinal Cord Injury

Special Interest Group Member

2016-present Academy of Physical Therapy Education Section Member 2019-present Academy of Physical Therapy Research Section Member

2021-present Consortium for the Humanities, Ethics, and Professionalism (CHEP)

American Council of Academic Physical Therapy

2021-present Alliance for Disability in Health Care Education Member

Invited Professorships and Lectureships

2011-2015 Invited Lectureship and Clinical Workshop Leader

"Locomotor Training in patients with spinal cord injury: Using prognostic

indicators to structure interventions"

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab), Chicago, IL

2014 Course Chair, Faculty, and Lectureship

"Walk the walk: Locomotor Training for patients with spinal cord injury and

stroke."

Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab), Chicago, IL

2015	Invited Lectureship
2010	"Community mobility after Motor Incomplete Spinal Cord Injury: Research
	Updates."
	Rehabilitation Institute of Chicago (Shirley Ryan AbilityLab), Chicago, IL
2015	Invited Lectureship
	"Spinal Cord Injury Rehabilitation" Northwestern University Movement and Rehabilitation science Annual
	Clinical Bootcamp for PostDoctoral Fellows
	Feinberg School of Medicine, Chicago, IL
2015	CSM Poster Presentation
	Combined Sections Meeting for the APTA
	"Variable Intensive Walking after Stroke (VIEWS Trial)"
2016	CSM Neurology Platform Presentation
	Combined Sections Meeting for the APTA
	"Selection and pilot of a core assessment battery for inpatient rehabilitation"
2015	Educational Session Speaker
20.0	Combined Sections Meeting for the APTA
	"Walking the Walk: Translating basic and applied findings of methods to
	improve locomotor recovery post-stroke to the clinical setting"
2016	Pre-Conference Educational Session Speaker
	Combined Sections Meeting for the APTA
0040	"Walking the Walk: Translating Research Evidence to Clinical Practice"
2016	CSM Poster Presentation
	"Community mobility method selection in individuals with chronic motor incomplete spinal cord injury: A qualitative analysis"
2018	CSM Neurology Platform Presentation
20.0	"Effects of training intensity on locomotor performance in individuals with
	chronic spinal cord injury."
2018	Workshop Facilitator
	Clinical Instructor's Meeting
0040	Washington University, Program in Physical Therapy, St. Louis, MO
2018	Invited Lectureship "Evidence Informed Care: Translating the Reat Evidence New"
	"Evidence Informed Care; Translating the Best Evidence Now" Anderson Hospital, Maryville, IL
2019	Invited Lectureship
	"Learning Styles: Myth-Busted"
	Central Area Consortia Meeting
	Washington University, Program in Physical Therapy, St. Louis, MO
2019	Invited Faculty Commencement Address
	Class of 2019
2019	Washington University, Program in Physical Therapy, St. Louis, MO Invited Lectureship
2019	"Capacity versus Performance"
	Mary Free Bed Rehabilitation Hospital, Grand Rapids, IA
2020	Invited Lectureship
	"Capacity versus Performance: Clinical Implications"
	Institute for Knowledge Translation Residency Programming
2020	Invited Lectureship
	"Clinical Implications of Capacity Versus Performance"
	Annual Interdisciplinary Stroke Conference

	Mary Free Bed Rehabilitation Hospital, Grand Rapids, IA
2020	Invited Lectureship
	"Maximizing the Active Ingredients in Neurorehabilitation"
	Annual Interdisciplinary Stroke Conference
	Mary Free Bed Rehabilitation Hospital, Grand Rapids, IA
2020	Education Session Lead Speaker
	"Active Ingredients across the Locomotor Training Clinical Practice
	Guideline Action Statements"
	Combined Sections Meeting for the APTA, Academy of Neurologic PT
2020	Invited Podcast Interviewee
	"Application of the Clinical Practice Guideline to Spinal Cord Injury
	Rehabilitation"
	Spinal Cord Injury Special Interest Group, Academy of Neurologic
	Physical Therapy
2020	Invited Podcast Interviewee
	Stroke Special Interest Group, Academy of Neurologic Physical Therapy
2020	Education Session Speaker
	"Transforming Societal Health through Competency-Based Physical
	Therapy Education"
	Education Leadership Conference, American Council for Physical
2024	Therapy Education (ACAPT)
2021	Education Session Speaker "Having Difficulty Remaying Kid Clayer? Implementing High Intensity
	"Having Difficulty Removing Kid Gloves? Implementing High-Intensity Training in Neurologic and Geriatric Rehabilitation"
	Combined Sections Meeting for the APTA, Academy of Neurologic
	Physical Therapy
2021	Education Session Speaker
2021	"Re-evaluating Clinical Success: Differentiating Capacity Versus
	Performance"
	Combined Sections Meeting for the APTA, Academy of Neurologic
	Physical Therapy
2021	CSM Poster Presentation
	"Barriers to and Percentage of Vital Sign Assessment in an Outpatient
	Neurologic Physical Therapy Setting"
	Combined Sections Meeting for the APTA, Academy of Neurologic
	Physical Therapy
2021	CSM Neurology Platform Presentation
	"Stepwise Regression and Latent Profile Analyses of Locomotor
	Outcomes Post-Stroke"
	Combined Sections Meeting for the APTA, Academy of Neurologic
	Physical Therapy
2021	Invited Lectureship
	Physical Therapy Learning Institute
	"Time-Variable Competency-Based Physical Therapy Education
	Disruptive Innovation in Physical Therapist Education; Reimagining
	Physical Therapist Education: A Virtual Summit
2021	Invited Lectureship
	"Transforming the Health of Society through Competency-Based Physical
	Therapist Education – Moving from Theory to Practice"
	Education Leadership Conference
	Atlanta, GA

2022 ASNR Poster Presentation

American Society of Neurorehabilitation

"Improving in capacity for activity vs. improvement in performance of

activity in daily life during outpatient rehabilitation".

ASNR Annual Meeting, St. Louis, MO

2022 CIRCLE Conference Poster Presentation

"Implementing an Assessment Framework that Supports the

Development of Competence and the Master Adaptive Learner in DPT

Education"

Integrating Psychology and STEM Education Research to Promote

Innovative Teaching Conference, St. Louis MO

2022 Educational Session

"Transforming the Health of Society through Competency-Based Physical

Therapist Education-Implementing and Adapting"

Milwaukee, WI

2022 Educational Session

"Shifting the Culture towards Competence and Lifelong Learning: Case

Examples of Implementation"

Milwaukee, WI

2023 APTA Poster Presentation

"Comprehensive Assessment of the Activity Domain Using Both Capacity

and Performance Measures: A Case Report"

San Diego, CA

2023 Educational Session

"Combining motor-learning principles with high-intensity gait training to enhance locomotor outcomes post-stroke: identifying the skill of walking

training"

San Diego, CA

2023 Invited Lectureship

"Assessment to support the development of the Master Adaptive Learner"

ACAPT Clinical Reasoning Symposium

Phoenix, AZ

2023 Interdisciplinary Grand Rounds

BJC Memorial Hospital

"Intensive gait training in Neurologic Populations: Evidence and Safety

Considerations" Belleville, IL

Consulting Relationships and Board Memberships

2018-present Advisor

Guidepoint Consultants

New York, NY

2019-present Clinical Faculty

Institute for Knowledge Translation Neurologic Residency Training Program

Current Research Support

2016-present Clinical Research Coordinator

"Evaluating capacity versus performance during outpatient

neurorehabilitation"

Grant #: 2 RO1 HD068290-05

10% effort

<u>Trainee/Mentee/Sponsorship Record</u> 2016-2022 Clinical Education

Clinical Education Advisor & Team Member

Advisement of one quarter of each class of DPT students (20-22/class), on-site evaluation of practicum sites, coordination of the all clinical

education site visits

National Clinical Mentor 2018-present

Academy of Neurologic Physical Therapy

2019-present Clinical Mentor

Washington University in St. Louis, Outpatient Therapy Services @4240

Neurologic Residency Mentor (Ethics, Humanities, and Spinal Cord 2019-present

Institute for Knowledge Translation Residency Program

Publications

Original, peer reviewed articles in refereed journals

- 1. Hornby TG, Straube DD, Kinnaird CR, Holleran CL, Echauz T, Rodriguez K, Wagner E, Narducci E. Importance of specificity, amount, and intensity of locomotor training to improve ambulatory function in patients post-stroke. Topics in Stroke Rehabilitation. 2011 Jul-Aug;18(4):293-307.
- 2. Hornby TG, Kinnaird CR, Holleran CL, Rodriguez K, Rafferty M, Cain J. Kinematic, muscular, and metabolic responses during exoskeletal-, elliptical-, or therapist-assisted stepping in people with incomplete spinal cord injury. Phys Ther. 2012 Oct; 92(10):1278-1291.
- 3. *Holleran CL, Straube DD, Kinnaird CR, Leddy AL, Hornby TG. Feasibility and Potential Efficacy of High-Intensity Stepping Training in Variable Contexts in Subacute and Chronic Stroke. Neurorehabilitation Neural Repair. 2014 Sep;28(7):643-51.
- 4. *Leddy AL, Connolly M, Holleran CL, Hennessy PW, Woodward J, Arena RA, Roth EJ, Hornby TG. Alterations in aerobic exercise performance and gait economy following highintensity dynamic stepping training in persons with subacute stroke. J Neurol Phys Ther. 2016 Oct; 40(4):239-48.
- 5. Brazg G, Fahey M, Holleran CL, Connolly M, Woodward J, Hennessy PW, Schmit BD, Hornby TG. Effects of Training Intensity on Locomotor Performance in Individuals with Chronic Incomplete Spinal Cord Injury. Neurorehabil Neural Repair. 2017 Oct-Nov; 31(10-11).
- 6. *Straube DD, Holleran CL, Kinnaird CR, Leddy AL, Hennessy PW, Hornby TG. Effects of dynamic stepping training on non-locomotor tasks in individuals post-stroke. Phys Ther. 2014 Jul;94(7):921-33.
- 7. *Hornby TG, Holleran CL, Leddy AL, Hennessy PW, Leech KA, Connolly M, Straube DD, Lovell L, Roth E. Feasibility of focused stepping practice during inpatient rehabilitation poststroke and potential contributions to mobility outcomes. Neurorehabilitation Neural Repair. 2015 Nov-Dec; 29(10):923-32.
- 8. *Holleran CL, Rodriguez K, Echauz A, Leech K, Hornby TG. Potential contributions of training intensity on locomotor performance in individuals with chronic stroke. J Neurol Phys Ther. 2015 Apr; 39(2):95-102.

- 9. *Hornby TG, **Holleran CL**, Hennessy PW, Leddy AL, Connolly M, Camardo J, Woodward J, Mahtani G, Lovell L, Roth EJ. Variable Intensive Early Walking Poststroke (VIEWS): A Randomized Controlled Trial. *Neurorehabil Neural Repair*. 2016 Jun; 30(5): 440-50.
- 10. Mahtani GB, Kinnaird CR, Connolly MA, **Holleran CL**, Hennessy PW, Woodward J, Brazg G, Roth EJ, Hornby TG. Altered sagittal- and front-plane kinematics following high-intensity stepping training versus conventional interventions in subacute stroke. *Phys Ther.* 2016 Sep 15.
- 11. Leech KA, Kinnaird CR, **Holleran CL**, Kahn J, Hornby TG. Effects of locomotor exercise intensity on gait performance in individuals with incomplete spinal cord injury. *Phys Ther.* 2016 Dec;96(12)-1919-1929.
- 12. Brazg G, Fahey M, **Holleran CL**, Connolly M, Woodward J, Hennessy PW, Schmit BD, Hornby TG. Effects of Training Intensity on Locomotor Performance in Individuals with Chronic Spinal Cord Injury: A Randomized Crossover Study. *Neurorehabil Neural Repair*. 2017 Oct-Nov:31(10-11): 944-954.
- 13. *Holleran CL, Hennessy P, Leddy A, Mahtani G, Brazg G, Schmidt B, Hornby TG. High intensity variable stepping training in patients with motor incomplete spinal cord injury: a case series. *J Neurol Phys Ther.* 2018 Apr:42(2):94-101.
- 14. Woodward JL, Connolly M, Henessy PW, **Holleran CL**, Mahtani GB, Brazg G, Fahey M, Maganti K, Hornby TG. Cardiopulmonary Responses During Clinical and Laboratory Gait Assessments in People with Chronic Stroke. *Phys Ther.* 2019 Jan 1: 99(1):86-97.
- 15. Hornby TG, Reisman DS, Ward IG, Scheets PL, Miller A, Haddad D, Fox EJ, Fritz NE, Hawkins K, Henderson CE, Hendron KL, **Holleran CL**, Lynskey JE, Walter A; and the Locomotor CPG Appraisal Team. Clinical Practice Guideline to Improve Locomotor Function Following Chronic Stroke, Incomplete Spinal Cord Injury, and Brain Injury. J Neurol Phys Ther. 2020 Jan;44(1):49-100.
- 16. *Holleran CL, Blang MD, Reisman DS, Ellis TD, Earhart GM, Lang CE. Day-to-day variability of walking performance measures in individuals post-stroke and individuals with Parkinson disease. *J Neurol Phys Ther.* 2020 Oct;44(4):241-247.
- 17. Hornby TG, Roth E, Lovell L, Henderson C, **Holleran CL**, Jang J. Stepwise regression and latent profile analysis of locomotor outcomes post-stroke. *Stroke*. 2020 Oct;51(10):3074-3082.
- 18. *Lang CE, Barth J, **Holleran CL**, Konrad JD, Bland MD. Implementation of Wearable Sensing Technology for Movement: Pushing Forward into the Routine Physical Rehabilitation Care Field. Sensors (Basel). 2020 Oct 10;20(20):5744.
- 19. Lang CE, Waddell KJ, Barth J, Holleran CL, Strube MJ, Bland MD. Upper Limb Performance in Daily Life Approaches Plateau Around Three to Six Weeks Post-stroke. *Neurorehabil Neural Repair*. 2021 Oct;35(10):903-914.
- 20. *Holleran CL, Fogo J, Miller SA, Hornby TG. Community Mobility Method Selection in Individuals with iSCI: A Qualitative Analysis. Journal of Humanities in Rehabilitation. December 17, 2021.

- 21. Abraham, K., Green-Wilson, J., Hartley, G.W., Deusinger, S., Altenburger, P., Blackinton, M., Byl, N., Nordstrom, T. and Tschoepe, B. Master Adaptive Learning as a Framework for Physical Therapist Professional Education: A Call to Action. Physical Therapy. 2022. The authors acknowledge the following individuals who served as speakers during the Summit that provided the foundation for this Point of View manuscript: **Holleran CL**.
- 22. *Lang CE, **Holleran CL**, Strube M, Ellis T, Newman C, Fahey M, DeAngelis T, Nordahl T, Reisman D, Earhart GE, Lohse K, Bland MD. Improvement in capacity for activity vs. improvement in performance of activity in daily life during outpatient rehabilitation. *J Neurol Phys Ther.* 2023 Jan 1;47(1):16-25.
- 23. *Holleran CL, Bland M, Lang CE. Comprehensive Assessment of the Activity Level of the ICF Using Both Capacity and Performance Measures: A Case Report. *Arch Rehabil Res Clin Transl.* Accepted.
- 24. *Ambler S, Burlis T, Clark R, Holtzman G, McGee P, Frost J, Randolph J, Norton B, **Holleran CL**. Development of Domains of Competence and Competencies for Physical Therapist Education: Societal and Interprofessional Considerations. Submitted.

Commentary

- 1. *Hornby TG, Holleran CL. Sleep Matters. J Neurol Phys Ther. 2014 Jul;38(3):170-1.
- 2. *Leech KA, **Holleran CL**. Commentary on: Practice Structure and Locomotor Learning After Stroke". *J Neurol Phys Ther.* 2019 Apr; 43(2):94-95.

Blog

1. **Holleran CL**. Don't be afraid to Sweat. Pulse Blog. American Physical Therapy Association. August 2019.

Media

- 1. **Holleran, CL**, Hornby TG. Academy of Neurologic Physical Therapy Spinal Cord Injury Special Interest Group Podcast. Locomotor Training Clinical Practice Guideline. Episode 4. March, 2020.
- 2. **Holleran CL**, Bretz M. Academy of Neurologic Physical Therapy Stroke Special Interest Group Podcast. Locomotor Training Clinical Practice Guideline. Episode 11. November, 2020.
- 3. **Holleran CL**, Goodwin L, Banhos M, Bretz M, Gallo E, Szot L, Gorecki R, Robinson J Clinical Tools for Implementation of Recommended Action Statements from ANPT Knowledge Translation Task force for Locomotor Training Clinical Practice Guideline.
 - a. Clinical Practice Guideline Resources
 - b. Clinician Resources
 - c. Physician Resources
 - d. Patient Resources
 - e. You tube Channel for Clinician Education

4. **Holleran CL**, Goodwin L, Banhos M, Bretz M, Gallo E, Szot L, Gorecki R, Robinson J. Intensity Matters National Campaign. Academy of Neurologic Physical Therapy, 2018-2022. https://www.neuropt.org/practice-resources/best-practice-initiatives-and-resources/intensity_matters