ClinicalNLP 2025

The 7th Workshop on Clinical Natural Language Processing (ClinicalNLP)

Proceedings of the Workshop

October 30, 2025

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Preface

This volume contains papers from the 7th Workshop on Clinical Natural Language Processing (Clinical NLP 2025), held online.

Clinical text is growing rapidly as electronic health records (EHRs) become pervasive. Much of the information recorded in a clinical encounter is located exclusively in provider narrative notes, which makes them indispensable for supplementing structured clinical data to better understand patient state and care provided. The goal of this workshop is to establish a regular event that brings together researchers interested in developing state-of-the-art methods for the clinical domain. The focus is on improving NLP technology to enable clinical applications via information extraction and modeling of narrative provider notes from electronic health records, patient encounter transcripts, and other clinical narratives.

For Clinical NLP 2025 we focused on three shared tasks, challenging researchers around the world to develop new approaches to solve clinical NLP problems: chemotherapy timelines extraction, medical order extraction, and wound care visual question answering. We received a total of 8 participant submissions to the shared tasks, all of which were accepted as oral presentations.

Program Committee

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Keynote Talk

An AI Agenda to Modernize Healthcare Delivery

Dr. Karandeep Singh
UC San Diego

Abstract: In this talk, Dr. Karandeep Singh will describe healthcare delivery challenges that cut across multiple clinical services and care settings and culminate in the phenomenon of patients "boarding" in the emergency department. Is boarding really a fixable problem? If so, how can artificial intelligence (AI) help? He will present key areas where AI can play a role in informing and redesigning how care is delivered, touching on its roles in measurement, simulation, prediction, and automation. The talk is intended to build skills in health systems-level thinking and AI-supported quality improvement.

Bio: Karandeep Singh, MD, MMSc is the Joan and Irwin Jacobs Chancellor's Endowed Chair in Digital Health Innovation and Associate Professor in Biomedical Informatics at UC San Diego, where he also serves as Chief Health AI Officer for UC San Diego Health. In these roles, Dr. Singh leads AI initiatives within the Jacobs Center for Health Innovation and oversees AI strategy and governance for the health system.

He completed his internal medicine residency at UCLA Medical Center, where he served as chief resident, and a nephrology fellowship in the combined Brigham and Women's Hospital and Massachusetts General Hospital program. He completed his medical education at the University of Michigan Medical School and holds a master's degree in medical sciences in Biomedical Informatics from Harvard Medical School.

Table of Contents

Program

Thursday, October 30, 2025

09:00 - 09:10 *Opening Remarks*

09:10 - 10:10 *Keynote*

10:10 - 10:30 *Keynote Q&A*

10:30 - 11:30 *Shared Task Overviews (15 min talks + 5 min questions)*

Overview of the 2025 Shared Task on Chemotherapy Treatment Timeline Extraction
Jiarui Yao, Harry Hochheiser, WonJin Yoon, Eli T Goldner and Guergana K Savova

Overview of the MEDIQA-OE 2025 Shared Task on Medical Order Extraction from Doctor-Patient Consultations
Jean-Philippe Corbeil, Asma Ben Abacha, Jerome Tremblay, Phillip Swazinna, Akila Jeeson Daniel, Miguel Del-Agua and Francois Beaulieu

Overview of the MEDIQA-WV 2025 Shared Task on Woundcare Visual Question Answering
Wen-wai Yim, Asma Ben Abacha, Meliha Yetisgen and Fei Xia

11:30 - 12:00 *Break*

12:00 - 12:45 *Timeline Extraction System Overviews (10 min talks + 5 min questions)*

Team NLP4Health at ChemoTimelines 2025: Finetuning Large Language Models for Temporal Relation Extractions from Clinical Notes
Zhe Zhao and V.G.Vinod Vydiswaran

TEAM UAB at Chemotherapy Timelines 2025: Integrating Encoders and Large Language Models for Chemotherapy Timelines Generation
Vijay Raj Jain, Chris Coffee, Kaiwen He, Remy Cron, Micah D. Cochran, Luis Mansilla-Gonzalez, Akhil Nadimpalli, Danish Murad and John D Osborne

UW-BioNLP at ChemoTimelines 2025: Thinking, Fine-Tuning, and Dictionary-Enhanced LLM Systems for Chemotherapy Timeline Extraction
Tianmai M. Zhang, Zhaoyi Sun, Sihang Zeng, Chenxi LI, Neil F. Abernethy, Barbara D. Lam, Fei Xia and Meliha Yetisgen

12:45 - 13:30 *MEDIQA-OE System Overviews (10 min talks + 5 min questions)*

Thursday, October 30, 2025 (continued)

MasonNLP at MEDIQA-OE 2025: Assessing Large Language Models for Structured Medical Order Extraction
A H M Rezaul Karim and Ozlem Uzuner

EXL Health AI Lab at MEDIQA-OE 2025: Evaluating Prompting Strategies with MedGemma for Medical Order Extraction
Abhinand Balachandran, Bavana Durgapraveen, Gowsikkan Sikkan Sudhagar, Vidhya Varshany J S and Sriram Rajkumar

PNLP at MEDIQA-OE 2025: A Zero-Shot Prompting Strategy with Gemini for Medical Order Extraction
Parth Mehta

13:30 - 14:00 *MEDIQA-WV System Overviews (10 min talks + 5 min questions)*

MasonNLP at MEDIQA-WV 2025: Multimodal Retrieval-Augmented Generation with Large Language Models for Medical VQA
A H M Rezaul Karim and Ozlem Uzuner

EXL Health AI Lab at MEDIQA-WV 2025: Mined Prompting and Metadata-Guided Generation for Wound Care Visual Question Answering
Bavana Durgapraveen, Sornaraj Sivasankaran, Abhinand Balachandran and Sriram Rajkumar

14:00 - 14:30 *Closing Session*