

**Title:** Novel Co-Curricular Canvas Course for a Pediatric Rehabilitation Medicine Fellowship  
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**Background:** The Pediatric Rehabilitation Medicine (PRM) Fellowship is a 2-year clinically focused ACGME-accredited training program. Historically, educational strategies have involved multiple diverse real-life and supervised clinical experiences, lectures and readings. There have been limitations in didactic topic scheduling as well as reading material accessibility in the MedHub or shared file folder system. In a smaller-sized fellowship training program, efficiency and adaptability of curriculum delivery that cover all ACGME requirements is vital.

The COVID-19 pandemic required social distancing in education and elevated the need and demand for asynchronous learning and synchronous learning and teaching from varying clinical locations of faculty and learners. Socially distanced learning requirements has changed the educational strategies needed to teach PRM fellowship content and a need to bring greater cohesiveness to the learners.

**Goals/Summary of Work:** Create an innovative PRM fellowship co-curricular course using educational technology that is novel in the fellowship setting, the learning management system (LMS) Canvas.

- Improve asynchronous access to learning experiences for PRM fellows, combined Pediatrics/PM&R residents, and faculty
- Integrate historic educational methods of readings, lectures with novel methods of online learning resources, asynchronous lectures that augment self-directed learning with current real-life clinical experiences.
- Improve curricular material accessibility using LMS Canvas that is accessible via computer and smart phone application.
- Ensure curricular content is consistently up-to-date given the improved accessibility and ability to edit curricular content for both faculty educators and fellow learners.
- Improve learner engagement, self-directed learning and peer teaching opportunities.

Plan: Create – Engage – Integrate – Improve – Grow

**Curricular Assessment Plan:**

- Stage 1: Pilot assessment of LMS use/fellow engagement: Track Canvas Integrated data usage for Activity by Date; Positive verbal response from interviews with fellows, fellows using modules for pre-clinical readings for specialty clinics and diagnoses.
- Stage 2: Evaluate affective attributes and psychomotor attributes formally using post-didactic session survey on integration of Canvas resources (Readings (quality, number, completion), asynchronous lectures, online learning resources) into the didactic sessions (Lectures, small group discussion, Team-based learning, Peer teaching). Include in didactic session evaluation and module evaluations.

- Stage 3: Evaluate cognitive knowledge by integrating post-test quiz following a required reading.
- Evaluate role of the curriculum in recruitment of future PRM Fellows by surveying interviewed PRM Fellowship applicants. Also follow recruitment statistics: number applied to all national PRM fellowships vs CO; number ranking CO; match data.
- Knowledge: Follow PRM fellow performance on sections of the PRM Boards exam each year

**Future goals:** Pilot of initial Canvas co-curricular course modules will grow to cover each ACGME PRM fellowship competency. 22 PRM fellowships nationally train 1-2 fellow per year and so this would be the opportunity for educational collaboration on the national level among PRM fellowship programs.

Engage Pediatrics/PM&R residents over 5-year curriculum in an integrated sub-specialty educational program.

**Take-Home Messages:** Canvas is a learning management system supported by CU Office of Digital Education to organize and disseminate multimedia curricular materials to graduate medical educational trainees such as residents and fellows. This system can be a novel way to organize innovative GME curricular content in the clinical learning environment.