# Promoting Success: A Professional Development Coaching Program for Interns in Medicine

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## ABSTRACT

**Background** Residency is an intense period. Challenges, including burnout, arise as new physicians develop their professional identities. Residency programs provide remediation, but emotional support for interns is often limited. Professional development coaching of interns, regardless of their performance, has not been reported.

**Objective** Design, implement, and evaluate a program to support intern professional development through positive psychology coaching.

**Methods** We implemented a professional development coaching program in a large residency program. The program included curriculum development, coach-intern interactions, and evaluative metrics. A total of 72 internal medicine interns and 26 internal medicine faculty participated in the first year. Interns and coaches were expected to meet quarterly; expected time commitments per year were 9 hours (per individual coached) for coaches, 5 1/2 hours for each individual coachee, and 70 hours for the director of the coaching program. Coaches and interns were asked to complete 2 surveys in the first year and to participate in qualitative interviews.

**Results** Eighty-two percent of interns met with their coaches 3 or more times. Coaches and their interns assessed the program in multiple dimensions (participation, program and professional activities, burnout, coping, and coach-intern communication). Most of the interns (94%) rated the coaching program as good or excellent, and 96% would recommend this program to other residency programs. The experience of burnout was lower in this cohort compared with a prior cohort.

**Conclusions** There is early evidence that a coaching program of interactions with faculty trained in positive psychology may advance intern development and partially address burnout.

# Introduction

The transition from medical student to resident is one of the most challenging transformational periods in physicians' development. During this time, their lack of experience, long work hours, and work compression collide.<sup>1,2</sup> Research suggests that exaggerated stress responses can emerge under these circumstances.<sup>3,4</sup> Interns have little time to assimilate all that they are learning and also manage their emotional development. This period contributes to a burnout prevalence as high as 81% by late internship year, as determined in a multi-institution study,<sup>5</sup> suggesting that regular feedback and early identification of personality style may help combat burnout.

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Feedback obtained through traditional evaluations is often inadequate for helping residents understand their development.<sup>6,7</sup> Caverzagie et al<sup>8</sup> found that residents often focus only on patient care and medical knowledge, and may disregard feedback on their development in the other competencies (systemsbased practice, practice-based learning and improvement, interpersonal communication, and professionalism). Another study showed that lower-performing residents do not readily identify weaknesses and overestimate their abilities.9 In contrast, higherperforming residents often underestimate their skills in core competency areas. This mismatch can produce blind spots and interfere with optimal professional development. Providing a safe and facilitated opportunity for residents to incorporate reflection into their experiences may enhance their growth as physicians.<sup>10</sup>

Programs for residents who need remediation have been described in published reports.<sup>11–13</sup> This approach, however, may neglect residents who are meeting or exceeding expectations, but may not reach their optimal potential. Research has shown that

Editor's Note: The online version of this article contains an overview of the 2 faculty development coach training sessions, the intern mentor preference form, guides to sessions 1 through 4, a table of anticipated time commitments for participants, and demographic information.

involving all residents in a structured program was useful in developing awareness of academic accomplishment, interpersonal communication skills, and professional behaviors.<sup>14</sup> Webb et al<sup>15</sup> attempted individualized emotional intelligence coaching for second-year residents, but none of the participants completed the program, and there were no changes in residents' self-ratings.

Advisors, preceptors, and core faculty may form longitudinal relationships with residents, but their dual evaluator/advisor role presents a conflict for residents who may be hesitant to share their true experiences and perspectives. Opportunities to interact with residents in a nonevaluative role are limited, and finding faculty mentors can be challenging given competing commitments.

This article reports on our experiences in creating a professional development coaching program for internal medicine interns based on the principles of positive psychology. Positive psychology is the study of the conditions and processes that contribute to the optimal functioning of people, groups, and institutions.<sup>16</sup> Positive psychology coaching uses a strengths approach that emphasizes engagement, meaning, and accomplishment.<sup>17</sup> This approach has been suggested as a way to strengthen professional skills of physicians, to combat burnout, and to improve their quality of life. To date, there are few data on the efficacy of coaching programs for physicians. We report on program development activities, coach selection and training, and interns' perceptions of their experiences.

# Methods

We implemented the Professional Development Coaching Program during the 2012–2013 internship year.

# **Goals and Program Development**

Program leadership identified the lack of clearly defined support and guidance in internship. The Professional Development Coaching Program was created to establish a safe environment for interns to reflect on their performance, honestly discuss their professional development, and identify and understand how to optimize their strengths to overcome challenges and stressors. Our strengths-based coaching model followed the principles of positive psychology and was designed to be nonevaluative, learner-driven, and egalitarian.<sup>18</sup>

Faced with the decision whether to randomize half were excluded to avoid role conflict. In the first of the cohort to the new coaching intervention or to program year, 26 coaches were recruited. The

## What was known and gap

Residency is an important but stressful period in physicians' professional development, with limited emotional support. Data are lacking on the efficacy of professional development coaching for residents.

#### What is new

A program to support interns' professional development and identity formation through positive psychology coaching.

#### Limitations

Lack of a comparison group, small sample size, and single specialty program reduce generalizability.

#### **Bottom line**

Early evidence suggests intern development may be advanced, and burnout was partially addressed through the coaching program.

establish the program for the entire group, we determined that it would be too long before we had actionable data from a randomized controlled study. A decision was made to develop this program for all interns and to use a published historical reference on burnout as a control. Interns were connected with an independent faculty member who could address issues that residents typically face, but often do not feel free to share with the resident's evaluative faculty. Faculty coaches were trained in positive psychology and connected with a group of like-minded educators through faculty development.

One associate program director was assigned responsibility for the development, structure, and implementation of the coaching program, and will be referred to as the coaching program director (CPD). The CPD collaborated with a positive psychology coaching expert to design and execute coach training and to provide coaching support to faculty coaches. This process is detailed in TABLE 1, which describes a step-by-step approach and associated timeline. We also quantified and outlined the expected coach hours per trainee, hours per intern coached, and the CPD time commitment for program implementation and oversight (provided as online supplemental material).

## **Participants**

Coaches for the program were members of the department of medicine teaching faculty. Potential faculty coaches were identified from the core faculty, former chief residents, graduates of the residency program, preceptors, and other enthusiastic teaching faculty. Program directors and senior career mentors were excluded to avoid role conflict. In the first program year, 26 coaches were recruited. The

Professional Development Coaching Program Implementation Timeline, Key Stakeholders, Description of Activities, and Measured Outcomes

Timing	Program Components	Who Was Involved?	Description	Outcome
Fall 2011	Program leadership buy-in	APD, PD	<ul><li>Recognized program need</li><li>Appointed coaching champion</li></ul>	Established Professional Development Coaching Program
Winter 2011	Program design	APD, PD, coaching expert	<ul> <li>Set goals and expectations</li> <li>Consulted with coaching expert</li> <li>Established quarterly, confidential meeting structure</li> <li>Designed guides for each meeting</li> </ul>	Created evidence-based curriculum with quarterly session guides linked to validated exercises
February–May 2012	Coach recruitment and training	APD, PD, coaching expert	<ul> <li>Enthusiastic teaching faculty invited</li> <li>Coaches gave access to evaluations</li> </ul>	Recruited 26 coaches (goal more than 18)
		Coaches, APD, coaching expert	Coach Training 1 & 2: Program overview, coaching versus mentoring, positive psychology coaching, and 4 exercises	26 completed the mandatory 2 hours of training
May–June 2012	Coaching matches	APD	<ul> <li>Goal more than 4 interns per coach</li> <li>Ensured "safe" relationship for interns</li> <li>Used mentor preference form</li> <li>Sex, cultural preferences upheld</li> <li>Specialty interest mismatched</li> </ul>	78 interns paired with 26 coaches (2 to 3 per coach)
July 2012	Program roll-out	APD, coaches, interns, program administrator	<ul> <li>Established expectations at orientation luncheon:</li> <li>Interns to schedule quarterly meetings with coach</li> <li>Logged each meeting by e-mail to program administrator</li> <li>Encouraging reminder e-mails throughout the year</li> </ul>	Coach and interns met to establish rapport

Abbreviations: APD, associate program director; PD, program director.

individuals coached were all 72 interns in the the program was introduced and expectations were program.

**Coach-Intern Matching** 

reviewed.

# Trained coaches were assigned 2 to 3 interns prior to orientation in June 2012. To pair interns with their coaches, the CPD used a preference form typically used to pair incoming interns with faculty mentors. The form is available as online supplemental material. Career interests were intentionally mismatched to allow for safe exploration and honest discussion without concern for future career impact. Coaches and interns met during internship orientation, when

# **Coach Training**

All 26 coaches participated in 2 hours of training. Coaches were introduced to core concepts of developmental coaching and positive psychology,19-23 using hands-on experience of coaching exercises (provided as online supplemental material). Strategies for managing particular situations such as poor intern performance and unrealistic self-assessment were reviewed.

Coaching Program Throughout Acade	nic Year With Timing and Goals	s of Meetings Linked to Evaluation Timeline

Timing	Meeting Description	Evaluation
July–September 2012	<ul> <li>Meeting No. 1: Best reflective self</li> <li>How are things going?</li> <li>How has the transition been?</li> <li>Incorporating positive psychology into daily routine</li> <li>Describe and set goals for "perfect" intern year</li> <li>Set interim goals until next meeting</li> </ul>	Baseline quantitative survey, tracked meeting attendance
October–December 2012	<ul> <li>Meeting No. 2: Find and build your strengths with the "Values in Action Signature Strengths Survey"</li> <li>How are things going?</li> <li>Review evaluations and goals from last meeting</li> <li>Complete survey and describe strength signature</li> <li>Set interim goals until next meeting</li> </ul>	Tracked meeting attendance
January–March 2013	<ul> <li>Meeting No. 3: Build best performance with the GROW model</li> <li>Review evaluations and goals from last meeting</li> <li>Review the perfect intern year goals (adjust if needed using positive pushing)</li> <li>Choose upcoming challenge or goal and apply the GROW model</li> </ul>	Tracked meeting attendance
April-June 2013	<ul> <li>Meeting No. 4: Review the year in a new way using PERMA</li> <li>How have you changed this year?</li> <li>Create an "I did" list for the year: Does it look like your perfect intern year?</li> <li>Review the intern year using the PERMA approach</li> </ul>	Program evaluation, meeting attendance, end-of-year qualitative and quantitative program evaluation

Abbreviations: GROW, goal, reality, options, way forward; PERMA, positive emotions, engagement, relationships, meaning, accomplishment.

Through positive psychology exercises, coaches began to focus on active listening, using questions to promote self-reflection, and articulating positive emotions and strengths as opposed to emphasizing negative emotions and weaknesses. At the conclusion of training, it was acknowledged that uncertainty in their coaching skills was expected and normal. Coaches were reassured that their prior patient care experiences in motivational interviewing, helpful guides, and training-focused e-mail updates throughout the year would support them.

## **Coaching Sessions**

Interns were expected to meet with their coaches quarterly (TABLE 2). These meetings were held at a location of their choice and were expected to last 40 minutes on average. Session guides were created for each meeting, along with sample questions to engage the resident in discussion and descriptors of the positive psychology exercise linked to that meeting. These guides were accessible to coaches through Dropbox, an online file-sharing program, and are available as online supplemental material. Coaches were given access to the evaluations of the interns they coached through the program's online evaluation system. To foster participation, monthly reminders to schedule coaching meetings were sent by the CPD to coaches and interns. All discussions in coaching meetings were strictly confidential, unless the coach was concerned for the safety of the intern or his or her patients.

The program and its evaluation were declared exempt by our institution's Institutional Review Board.

#### **Program Evaluation**

We performed both an objective and a subjective evaluation of the program in its first year. We timed initial survey data collection so that interns would have at least 3 months of work experience and presumably 1 coaching meeting. Quantitative data were collected in the first and fourth quarters of the program.

Online quantitative surveys were conducted with email recruitment. Incentives were offered to survey respondents in the form of hospital dining facility gift cards. The primary process and outcome measurements collected from interns in the first year of

**Program Participation** 

No. of Coach-Intern Meetings (program data, n = 72)	%	
1 of 4	3	
2 of 4	14	
3 of 4	32	
4 of 4	50	
Use of Coaching Tools/Skills in Sessions With Coaches (survey data, n = 59)		
Positive psychology	61	
Goal setting	80	
Chemistry building	38	
Strengths form or signature strengths <sup>a</sup>	15	
Recognizing achievement	40	
Positive yearly review (PERMA)	8.3	
Encountered Coach in a Supervision Context Outside of Coach-Intern Meeting		
Yes	50	
No	50	

Abbreviations: PERMA, positive emotions, engagement, relationships, meaning, accomplishment.

Note: Survey respondent characteristics of 59 intern respondents, as well as program participation of all 72 interns.

<sup>a</sup> Tailored for physicians.

evaluating the program included (1) experience with the program, as well as the use of coaching exercises and coach-intern interactions; (2) professional development goals and activities; (3) professional interactions and working relationships with colleagues; and (4) assessment of professional accomplishment and emotional exhaustion as measured in the Maslach Burnout Inventory.<sup>24</sup> Measurements of program experience, professional development, and interactions were designed based on tools previously developed for health workforce studies.<sup>25,26</sup>

## Results

Nearly all (99%, 71 of 72) interns met with their coaches at least once; 50% (36 of 72) met all 4 times (TABLE 3). Small sample sizes precluded detailed analysis of the impact of the number of meetings on outcomes.

We assessed program experience in presurveys and postsurveys (TABLE 4). Twenty-six coaches and 72 interns were eligible for participation in wave 1 quantitative surveys, conducted in September and October 2012. Twenty-four coaches and 72 interns were eligible for wave 2, conducted in May 2013. Two coaches left the institution, and their interns

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were reassigned. In wave 1, 100% (26 of 26) of the coaches and 82% (59 of 72) of the interns participated; in wave 2, 92% (22 of 24) of the coaches and 67% (48 of 72) of the interns participated. Due to unequal responses for the 2 waves, tests of the difference in proportion in unequal pairs were used to compare group differences. At year-end, 94% (45 of 48) of interns rated the coaching program as good or excellent; 96% (46 of 48) would recommend this program to other residencies; and 65% (31 of 48) rated the quality of communication with their coach as "excellent."

Program activities stressed self-assessment of skills and strengths in both patient care and interpersonal communication. We observed significant differences among interns in the time devoted to self-reflection and communication with the coach.

In the year prior to the program, our institution participated in a multisite study assessing emotional exhaustion among interns.<sup>5</sup> Baseline data in July 2011 showed that 12% (6 of 49) of the interns scored high on the emotional exhaustion subscale. Follow-up data from July 2012 indicated that 47% (23 of 49) of the interns had high emotional exhaustion scores at the end of their intern year. In contrast, our initial measurements for interns after 3 months of internship showed that 44% (26 of 59) of interns scored high on emotional exhaustion compared to 33% (16 of 48) near the end of the intern year. Our pre-post changes were not significant in the samples of these sizes. Personal accomplishment scores were unchanged from our pre- and postsurveys.

Despite efforts to match coaches and interns outside of direct supervisory relationships, 50% (24 of 48) of interns reported that they had some supervisory relationships with their coaches. This feedback was incorporated into coach training on how to better manage these interactions and how we matched interns with their coaches.

# Discussion

Our coaching program is the first of its kind to focus on all interns in a medicine residency program, regardless of performance, with a strengths orientation model built on evidence-based positive psychology. In its first year, participation was high: 82% of interns met with their coaches at least 3 times. Despite variable use of coaching exercises, the overall assessment of the program was strongly positive.

Our initial evaluation highlighted some areas for improvement to address in the second year. It showed that coach preparedness was variable, and that the approach to the coaching interactions was inconsistent.

Quantitative Pre- and Postcoaching Program Experience Data

Professional Development Metrics	Precoaching $(n = 59), \%$	Postcoaching (n = 48), %			
Please rate your experie	nces with:				
Opportunity to reflect on	Opportunity to reflect on your own performance ( $P = .02$ )				
Excellent	31	52			
Good	48	40			
Fair/poor	22	8.3			
Recognition you receive f	or a job well don	e (ns)			
Excellent	27	42			
Good	58	46			
Fair/poor	15	2.5			
Please rate your workin	g relationships v	vith:			
Faculty (ns)					
Excellent	46	58			
Good	48	38			
Fair/poor	6.8	4.2			
Other residents (ns)	I				
Excellent	58	75			
Good	39	26			
Fair/poor	3.4	0.0			
Nurses (ns)	L				
Excellent	42	48			
Good	49	40			
Fair/poor	8.5	13			
Maslach Burnout Invent	ory				
Personal accomplishment	(ns)				
High	49	48			
Medium	51	48			
Low	0	2.1			
Emotional exhaustion (ns)					
High	44	33			
Medium	48	50			
Low	8.5	15			
Quality of communication	with coach				
Excellent ( $P = .02$ )	48	69			
Good	37	24			
Fair/poor	12	6.7			
No meeting yet	3.4	0			
Overall program assessment					
Rating of intern experience					
Excellent	N/A	67			
Good	N/A	27			
Fair/poor	N/A	6.3			

#### TABLE 4 Continued

Professional Development Metrics	Precoaching (n = 59), %	Postcoaching (n = 48), %
Recommend other internship programs implement coaching		
Definitely would	N/A	64
Probably would	N/A	32
Probably or definitely would not	N/A	4

Abbreviations: N/A, not applicable; ns, not significant.

Note: Data from 59 intern respondents at onset of coaching program (PRE coaching) and 48 respondents at end of internship year in July 2013 (POST coaching). *P* values are for paired proportion test results in unequal samples.

Ongoing training, including development and use of training videos, will be helpful in standardizing the approach.

The time and financial costs of this program were minimized purposefully to increase program director buy-in and ensure sustainability. The CPD also functions as an associate program director, and grant funds were used mostly for program evaluation. Faculty time was voluntary, which may represent the recognized need for faculty buy-in and commitment to the program. Our positive psychology coaching expert volunteered her time to help design the program.

For other programs that wish to build a similar coaching program at their institution, we have provided our curricular materials as online supplemental material, and we are providing education through professional society meetings. We recognize that not all programs have the ability to implement this type of program. That being said, we do believe that incorporating positive psychology coaching tools and techniques into existing advising and mentoring programs would be beneficial.<sup>17</sup>

There are a few limitations to our approach. First, there was no comparison group. Second, given the size of this cohort, the analysis of our data is descriptive in nature; the size of the study group precluded multivariate analyses at this phase. Third, generalizability of the study findings to other internal medicine programs is limited due to use of a 1-year cohort at a large university-based program.

Based on our experience in the first year, our professional development coaching program was expanded to a 3-year curriculum, with the expectations that coaches work with their assigned interns throughout their residency and receive training each year. The next steps to determine the value of this overall program will be a 3-year qualitative and 12. Ratan RB, Pica AG, Berkowitz RL. A model for quantitative evaluation of the curriculum, including the impact of the program on coaches and residents.

# Conclusion

The addition of a coaching program, separate from performance evaluation and career advising and based on positive psychology methods, was feasible and highly acceptable to internal medicine interns and selected faculty coaches. Interns reported less emotional exhaustion and burnout than reported by the previous year's cohort.

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