Category	Definition	Example
Ability ^{2,9,10}	Talent, skill, or proficiency in an area; smart, skilled, ability, genius, brilliant, bright, brain, aptitude, gift, capacity, propensity, innate, flair, knack, clever, expert, proficient, capable, adept, able, competent, natural, inherent, instinct, creative, insight, analytical, intelligent, talented	"_ is exceptionally bright and was able to learn difficult new concepts very quickly"; "demonstrated early on an uncanny ability to be self- starter"
Academic background ²	² Formal preparation prior to medical school – high school, undergraduate and graduate schools	"attended _ University where _ was Phi Beta Kappa and summa cum laude"; "after graduating valedictorian from _ high school"
Achievement ^{2,10}	Successful effort; organized, performed, earned	"has been the top of _ class every step of the way"; "has also been successful in _ research efforts with several _ faculty"
Agency ^{2,3}	Drive to perform, achieve status; confident, ambitious, competitive, assertive, independent, decisive, aggressive, dominant, forceful, daring, outspoken, intellectual	"was noted to be a go-getter on rounds"; "_ is assertive"; "_ commands a presence in the OR and clinic"; "_ is confident"
Athletics	Mention of participation in athletics	<i>"a former track and field star"; "member of the Division 1 Varsity Lacrosse Team"</i>
Authority established ²	Letter writer outlines their qualifications	"I serve as the Chairmen of the Department of Orthopaedics and residency program director"

Appendix 1. Variable Categories, Definitions, and Study Examples

Awards ²	Mark of recognition,	"received multiple awards and
	scholarships, Alpha Omega	scholarships in engineering while
	Alpha Honor Medical Society	also receiving a research grant";
	membership	"elected to the Gold Humanism
	1	Honor Society"
Career choice ^{2,}	Surgical subspecialty, academic	"_is interested in academic
	surgery	surgery"
Clinical skills ^{2,11}	Observable act within patient	<i>"able to gather and present</i>
	care; physical exam, diagnostic,	patient information in an
	communication, rounding,	organized and efficient manner";
	reading images	
Communal ^{2,3}	Modest, cooperative, helpful,	"modest and quiet"; "affable,
	kind, sympathetic, sensitive,	helpful"; "interpersonal style puts
	nurturing, affectionate,	people at ease"; "sympathetic";
	agreeable, tactful, interpersonal,	"_ strikes me as someone who
	warm, caring	would make a terrific caregiver"
Community service ²	Volunteer work to help others	<i>"still found time to volunteer for a</i>
Community service	voluncer work to help others	number of worthy causes"
		number of wormy eduses
Doubt raiser ^{2,4}	Negative language, hesitancy,	<i>"overall performance within this"</i>
	hedges, faint praise,	group was below average"; "fund
	irrelevancies; not	of knowledge was below average"
	complementary or supportive of	
	candidate.	
Family ²	Mention of spouse, children,	"uses _ free time to spend with _
-	parents	wife"
Fit ²	Discussion of good fit for a	"_ would be a good fit here"; "fit
	particular residency program or	in exceptionally well with other
	orthoapedic surgery in general	members of the team"
Fund of knowledge ^{2,11}	Information, clinical knowledge,	"knowledge base was described
	fund of knowledge	as being above average for her
		year in training"; "demonstrated
		a strong fund of knowledge"
Future promise ²	Future potential as a surgeon	"I have no doubt _ will not only
		be an excellent orthoapedic
		resident and surgeon, but also a
		leader in our field."
		"I know will be a fantastic
		addition to the field of
		orthopaedic surgery"

Grindstone ^{2,9,10}	Hard working, conscientious, dependable, meticulous, thorough, diligent, dedicated, careful, reliable, effort, assiduous, trust, responsible, methodical, industrious, busy, work, persist, organized, disciplined	"hard working"; "ability to persist through adversity"; "I have been impressed with _ diligence"
Hardship ²	Difficult time or adversity applicant faced	"one would never know the hardships of _ childhood and tragedies"; "had an extremely challenging upbringing"
Initiative ²	Assess and undertake independently – could be a clinical task or research project; conceived/enacted by applicant	<i>"independently ordered appropriate x-rays/tests"; "was very proactive in getting splints ready"</i>
Judgment ^{2,11}	Ability to make considered decisions or come to sensible conclusions	"_has appropriate medical judgment to make decisions"; "_ judgment is sound and _ can be trusted to make wise decisions"
Leadership ²	Leading or guiding a group; president/officer of organization	"involved in numerous teaching and leadership positions"; "co- president of the American Medical Women's Association"; "is a born leader"
Legacy ²	Applicants' parents are physicians/surgeons	"has strong family, personal ties and connections to athletics and sports medicine"; _ "father is a community orthopaedic surgeon"
Personality traits ^{2,11}	Patterns of thoughts, feelings, behaviors - introversion, extroversion, openness, conscientiousness	"I found _ to be an extremely likeable young man with a wonderful personality and a delightful, softspoken sense of humor"
Physical description ²	Defining traits of the applicant's body, ie hair color, height, weight, smile	
Positive but general terms ²	General affirmations; good, eager, enthusiastic, happy, delightful, helpful	"had a pleasant attitude, was easy to work with"; "energetic, enthusiastic"
Presentations ²	Presenting a topic locally or nationally	"a first author podium presentation at the American Academy of Orthopaedic Surgeons Meeting"; "at the end of the rotation, _ gave a very good

		presentation on olecranon fractures"
Receptive to feedback ²	Open to critique, criticism, feedback	"welcomed feedback and incorporated this into _ daily practice"
Recruitment ² / ranked highly	Mention of wanting to retain applicant at home institution; ranked highly; ranked to match	"I hope I can recruit _ to stay here"; "will be actively recruiting _ to stay in our program"; "_ will be ranked to match here"
Research ^{2,9,10}	Study, studies, project, research, fund, science, data, experiment, test, result, finding, publication, publish, vita, method, grant, manuscript, journal, theory, discovery, contribution, science	"research has led to one publication and one presentation"; "has been involved in research with two high level peer review articles (JBJS and JHS)"
Scholarship ²	GPA, USMLE Step scores, Honors	"scoring in the 260's on both Step 1 and Step 2" "Has Honors in essentially ALL of _ rotations"
Standout adjectives ^{2,9,10} / superlatives ²	Notable, remarkably superior; excellent, superb, outstanding, unique, exceptional, unparalleled, most, wonderful, terrific, fabulous, magnificent, remarkable, extraordinary, amazing, supreme, fantastic	<i>"is an outstanding applicant"; "is felt to be an excellent student"</i>
Strong support	Stating strong support or recommendation	"I give _ my highest recommendation"; "strongest support"; "recommend strongly without reservation"
Teaching ^{2,9,10} /mentoring ²	Teaching, education, training, instruct, supervise, lecture, mentor, adviser, class, counselor, syllabus, course, colleague, citizen, student,	"mentors numerous other medical students"; "was also involved in numerous teaching and leadership positions"
Team work ²	Worked a team; team player, team work	"demonstrated that _ is a true team player"; "demonstrated exceptional team work"
Technical skills ^{2,11}	Surgical skills, hand-eye coordination, dexterity	"ability to handle soft tissues and perform wound closure was well above _ peers" "technical skills are excellent, far above that expected of a medical student"

Top student	Named to be in the top 10% or	"top 1% of students I have
	less of students; named be a top	mentored over a 15 year career";
	student; named to be the best or	"best student rotator"
	one of the best students	
Work habit ^{2,11} /work	Behavioral, ethical, and	"showed strong work ethic"
ethic ²	practical elements applied by	
	employees in contributing to job	
	performance; sets a precedence	
	of efficiency, productivity and	
	reliability.	