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Development of the Uncertainty Communication Checklist: A Patient-Centered Approach to Patient Discharge From the Emergency Department

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Abstract

Clear communication with patients upon emergency department (ED) discharge is important for patient safety during the transition to outpatient care. Over one-third of patients are discharged from the ED with diagnostic uncertainty, yet there is no established approach for effective discharge communication in this scenario. From 2017 to 2019, the authors developed the Uncertainty Communication Checklist for use in simulation-based training and assessment of emergency physician communication skills when discharging patients with diagnostic uncertainty. This development process followed the established 12-step Checklist Development Checklist framework and integrated patient feedback into 6 of

the 12 steps. Patient input was included as it has potential to improve patient-centeredness of checklists related to assessment of clinical performance. Focus group patient participants from 2 clinical sites were included: Thomas Jefferson University Hospital, Philadelphia, PA, and Northwestern University Hospital, Chicago, Illinois.

The authors developed a preliminary instrument based on existing checklists, clinical experience, literature review, and input from an expert panel comprising health care professionals and patient advocates. They then refined the instrument based on feedback from 2 waves of patient focus groups,

resulting in a final 21-item checklist. The checklist items assess if uncertainty was addressed in each step of the discharge communication, including the following major categories: introduction, test results/ED summary, no/uncertain diagnosis, next steps/follow-up, home care, reasons to return, and general communication skills. Patient input influenced both what items were included and the wording of items in the final checklist. This patient-centered, systematic approach to checklist development is built upon the rigor of the Checklist Development Checklist and provides an illustration of how to integrate patient feedback into the design of assessment tools when appropriate.

Emergency department (ED) transitions of care are a high-risk period for patient safety, and clear communication regarding discharge diagnosis, prognosis, treatment plan, and expected course of illness is critical for safe discharge.¹ While discharge

communication tools have been developed for patients with certain medical diagnoses,^{2,3} these tools are not applicable to a significant portion of ED discharges. At least one-third of patients are discharged from the ED with a symptom-based diagnosis (i.e., chest pain),⁴ and there is no existing guidance for how to effectively communicate with these patients at the time of discharge. As a result, patients often leave the ED with unaddressed fear related to their symptoms^{5,6} and face a troubling dichotomy. If they are unaware of the uncertainty, they may not follow up appropriately or may ignore dangerous symptoms. Alternately, their fear may cause heightened sensitivity to their symptoms and lead them to seek unnecessary care.

Patient-centered communication skills and the ability to establish an appropriate discharge plan are core competencies for medical residents.⁷ Yet, a recent survey of 263 emergency medicine trainees found that 43% “often” or “always” encountered challenges discharging patients with diagnostic uncertainty, and 51% reported

a strong desire for more training in how to have these conversations.⁸ These survey findings highlight a clear gap in medical resident training for how to safely and effectively approach a common scenario: discharging a patient for whom there is diagnostic uncertainty.

Training and assessment of communication competence is complex and challenging. Simulation-based mastery learning (SBML) is a form of competency-based medical education that allows learners to develop skills through deliberate practice. While more often used in the context of technical procedures, SBML has also been used for communication training, including breaking bad news and code status discussions,^{9,10} and has been shown to improve patient care practices.^{11–13} SBML requires having an assessment tool, or checklist, to determine when a learner has achieved mastery of the content. Numerous checklist evaluation tools exist to assess general communication skills¹⁴ as well as communication about more focused topics (e.g., informed consent, code status discussion),^{15,16} though to our

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knowledge, none address communication regarding diagnostic uncertainty. With this work, we sought to fill a critical gap in resident training regarding safe and effective patient-centered discharge communication.

Checklist Development

Our team developed the Uncertainty Communication Checklist (UCC), an assessment tool for an SBML curriculum focused on teaching emergency medicine residents to effectively communicate with patients being discharged from the ED with diagnostic uncertainty. We followed the framework for checklist development as described in the Checklist Development Checklist (CDC) 12-step method,¹⁷ incorporating patient and expert feedback in an iterative fashion. The 12-step CDC method is a structured approach outlining the steps involved in development of evaluation checklists and has been used to inform development of a number of educational checklist tools.^{9,18,19}

Rationale for patient engagement

We incorporated patient input at all key decision points in the checklist development process to ensure patient-centeredness of the final checklist. The typical SBML checklist development process starts with a review of the literature and of existing clinical guidelines, with subsequent review by expert practitioners (e.g., thoracentesis checklist development using American Thoracic Society guidelines with review by physicians who perform and supervise thoracentesis).^{17,20} Our work differed from procedural competency measurement in an important way. In contrast to procedural tasks, for which there is an accepted “correct” approach, there is no clearly defined “right answer” for how to effectively discharge patients from the ED in the setting of diagnostic uncertainty. Our team strove to define a patient-centered approach to these discharge conversations, identifying the need for inclusion of patients as “experts” in the checklist development. We involved patients directly in all stages of the UCC development process. To our knowledge, few medical education publications report patient involvement in teaching and learner assessment,^{21,22} and none report patient involvement in all key steps of checklist development.

Checklist development participants

We engaged 3 categories of participants in the checklist development: the study team, expert panel members, and focus group patient participants.

The study team had 7 persons: 4 emergency physicians (expertise in uncertainty after ED visits [K.L.R.], health literacy and doctor–patient communication [D.M.M.], and resident education and simulation [D.H.S., D.P.]), 2 research scientists (expertise in risk communication and health literacy [K.A.C.] and medical education and SBML [W.C.M.]), and 1 internal medicine physician (expertise in improving quality of the patient experience [R.E.P.]).

The expert panel was a multidisciplinary group consisting of 7 health professionals (with expertise in health care communication, health literacy, diagnostic uncertainty, underserved populations, and simulation education) and 3 patient advocates. We identified the non-study team health professionals through the study team’s professional network and selected members based on prior research and familiarity with the literature on uncertainty and communication in emergency care. Of the 7, 5 are practicing emergency physicians and 2 are research scientists. Of the 3 expert panel patients, 2 have been long-term members of a patient advisory board run by one of the study team members (K.L.R.). We identified the third patient from her involvement in our team’s prior work related to uncertainty in health care. The study team solicited expert panelists’ input and feedback throughout checklist development during a series of group conference calls and email. Communication with the expert panel occurred from February to November 2018.

We recruited focus group patient participants from 2 clinical sites: Thomas Jefferson University (TJU) Hospital, in Philadelphia, Pennsylvania, with > 64,000 annual ED visits, and Northwestern Memorial Hospital at Northwestern University (NU), in Chicago, Illinois, with > 88,000 annual ED visits. We identified patients using an electronic health record query for recent ED visit (within the prior 2 weeks) with a symptom-based discharge diagnosis

(e.g., “chest pain,” “abdominal pain”) and contacted identified patients by phone to explain the project and further assess their eligibility. Patients were excluded if they were admitted to the hospital, had cognitive impairment as determined by a 6-item screener,²³ or did not speak English. We scheduled patients who were interested and eligible to participate for a focus group session. Focus groups were conducted in 2 waves, with 4 focus groups conducted for each wave (2 at each clinical site). Participants completed written informed consent and a basic demographic survey at the start of each session, and each participant received \$50 compensation. Sessions were audiorecorded and transcribed professionally. Focus group procedures were approved by both institutions’ institutional review boards. Study data were collected and managed using REDCap electronic data capture tools hosted at NU.^{24,25}

Steps of checklist development

We completed the 12-step checklist development process from October 2017 through March 2019. The overall steps of the CDC 12-step framework are outlined in Table 1, along with details about how the research team applied each step. Steps 1–5 focus on initial checklist creation, steps 6–9 focus on review and revision, and steps 10–12 focus on finalizing and working with the developed checklist.¹⁷

Steps 1–5: Initial checklist creation

We first focused the checklist task, creating an operational definition of the purpose and scope of the evaluation tool. This ensured that we had a shared mental model about the use and applicability of the checklist (step 1). We then reviewed 15 of the most commonly used general communication checklists in detail and identified items that overlap with the UCC’s content area.^{14,26–29,32–40} We also completed a literature review on medical and diagnostic uncertainty and discharge communication to inform identification of candidate checklist items.^{41–64} We then conducted the first expert panel phone call, after which all 7 research team members independently generated lists of potential UCC items (step 2).

We conducted the first wave of focus groups in January 2018. Wave 1 focused on understanding patients’ experiences of uncertainty after an ED visit (e.g., their

Table 1
Patient-Centered Application of the Checklist Development Checklist¹⁴ Steps as Used to Develop the Uncertainty Communication Checklist for Patient Discharge From the Emergency Department

Checklist development checklist steps	Description of process	Number of items, categories, and changes made	Description of deletions	Sources of input		
				Team members	Expert panel ^a	Focus group patients
1. Focus the checklist task	Created an operational definition of the purpose and scope of the evaluation tool	n/a	n/a	X		
2. Make a candidate list of items	Reviewed existing general communication checklists, created item candidate list, conducted patient focus groups (wave 1) informing items inclusion and wording	31 items	n/a	X	X	X
3. Classify and sort the items	Sorted individual items into major checklist categories by consensus	31 items, 9 categories	n/a	X		
4. Define and flesh out the categories	Expert panel members reviewed and suggested revisions for items	Delete 2 items, add 1 new item, collapse 7 items into 2 Result: 25 items, 8 categories	"Discuss expectations for new meds" and "Ask patient to summarize their plan moving forward"	X	X	
5. Determine the order of categories		n/a	n/a	X	X	
6. Obtain initial reviews of the checklist	Conducted patient focus groups (wave 2) with the goal of refining the items and discussing "best approaches" to communicating about diagnostic uncertainty	Revise 2 items Result: 25 items, 8 categories	n/a	X	X	X
7. Revise the checklist content	Team reviewed focus group feedback and amended checklist in response	Delete 2 items Result: 23 items, 8 categories	"Provide the patient with an overview of the topics that will be covered" and "Use lay and less technical language"	X		
8. Delineate and format the checklist to serve the intended uses	Determined scoring and weighting of checklist items.	n/a	n/a	X		X
9. Evaluate the checklist	Team reevaluated checklist for clarity and expert panel reviewed changes. Experts tested checklist to score sample discharge discussions	Delete 2 items, revise 1 item Result: 21 items, 7 categories	"Summarize testing and imaging done" and "Ask how the patient is feeling about what has been discussed"	X	X	
10. Finalize the checklist	Review and accept final form by study team members.	n/a	n/a	X		
11. Apply and disseminate the checklist	Prepare manuscripts, presentations, and other dissemination formats. Apply checklist in ongoing trial of educational intervention	n/a	n/a	X		
12. Periodically review and revise the checklist		(future)	(future)	X		

Abbreviation: n/a, not applicable.
^aExpert panel included patients and health professionals.

thoughts about uncertainty, questions for the doctor, experiences post discharge), their understanding of why and how frequently uncertainty occurs in the acute care setting, and their preferences for how physicians would ideally communicate regarding uncertainty. Focus group transcripts were analyzed using NVivo qualitative data analysis software, version 11 (QSR International Ltd, Doncaster, Victoria, Australia). We applied the existing items as a priori codes to the focus group transcripts and assessed for the presence of any ideas not already represented in an existing item.

Next, we classified and sorted the checklist items by group consensus (steps 3–5). Expert panel members were then engaged in item revision via rounds of anonymous email feedback using a web-based format. Panelists were asked to review each checklist item and respond if they would “keep as worded,” “remove,” or “revise.” Panelists could also provide suggested revisions and open-ended commentary. Responses and suggested revisions were then compiled, anonymized, and shared electronically with the panelists. Item wording was further refined via a moderated group teleconference discussion and subsequent email communication.

Steps 6–9: Review, revise, and evaluate the checklist content

We undertook 2 activities to review (step 6) and revise (step 7) checklist items. First, we reviewed item precision, item overlap, and item “interpretability” of each checklist item by using the checklist to rate simulated clinical encounters. Seven senior residents (4 at TJU, 3 at NU) roleplayed a discharge encounter based on a brief description of a clinical encounter. These sessions were audiorecorded and transcribed. Members of the study team then mapped residents’ statements from each session to checklist items, facilitating identification of items that weren’t covered or that needed rewording to clarify appropriate application. In addition, language used by residents was used to revise the “yes if” and “no if” examples provided for each checklist item.

We then conducted the second wave of focus groups in May 2018. In these focus groups, each checklist item was reviewed individually, with patient participants providing general feedback on item relevance as well as suggested wording

changes. Focus group transcripts were coded using the checklist items as an a priori code set.

As the purpose of the checklist is for use in simulation-based education, the checklist was delineated and formatted for use by an assessor who is scoring the learner (step 8). The study team then reevaluated the checklist, with a specific focus on ensuring clarity, comprehensiveness, and parsimony.

For step 9, 2 collaborating simulation education experts assessed the checklist for clarity, ease of use, and fairness from the perspective of the checklist “user” or assessor. Each expert used the checklist to score 2 audiorecorded samples of simulated discharge discussions that were obtained during step 6. Following scoring, each expert completed a brief interview with a study investigator (K.L.R., D.M.M.) to understand scoring decisions and to seek clarity on which items would benefit from revision.

Steps 10–12: Finalize checklist, apply and disseminate, periodically review and revise

Upon finalization of the UCC (step 10), the team prepared for its dissemination, through this publication and several other formats (step 11). Starting September 2019, the checklist is being applied in a trial of an educational intervention to teach emergency medicine residents best practices for discharging a patient from the ED in the setting of diagnostic uncertainty. Knowledge gained through this education trial may lead to further refinement of the current checklist, consistent with the final step of the checklist development process (step 12).

Outcomes

Focus group participants

A total of 23 patients participated across the 4 wave 1 focus groups and 25 patients across the 4 wave 2 focus groups. The focus group participants were 50% female and had a mean age of 46 years. Participants had a wide range of education attainment, income, and employment status. The majority had health insurance (95.7%) (Table 2).

Steps 1–5: Initial checklist creation

List 1 outlines the team’s operational definition for the purpose and scope of

the UCC. The team’s literature review and the subsequent expert panel call initially resulted in a total of 92 checklist items that had significant overlap. After consolidation, there were 31 checklist items. Wave 1 focus group analysis did not reveal any new emergent codes that required a new checklist item. Overall, focus group findings supported existing items and informed item wording (step 2).

The team sorted the 31 items into 9 categories: introduction, test results/ED summary, uncertain diagnosis, next steps/follow-up, self-care, reasons to return/red flags, patient questions, patient reaction and teach back, and general communication skills. Subsequent item review by expert panelists resulted in deletion of 2 items, creation of 1 item, and consolidation of 7 items into 2 items (steps 4–5).

Steps 6–9: Review, revise, and evaluate the checklist content

Using wave 2 focus group feedback, we removed 2 checklist items. For example, patients were confused about the item: “Provide the patient with an overview of the topics that will be covered.” They commented that this would be “awkward” in conversation and they would rather that physicians just tell them the information. This item was originally included because research in the emergency setting suggests that “information structuring” improves information recall^{22,23} (steps 6 and 7).

To delineate and format the checklist (step 8), we determined that each checklist item would receive equal weight, with each item receiving a dichotomous score of 1 = done correctly or 0 = done incorrectly/not done. No partial points are awarded for “done incorrectly” and no items are considered “critical actions.” At this stage, 2 additional items were removed because of redundancy and 1 item was reworded to improve clarity.

After evaluation of the checklist with 2 simulation experts, the wording of the “yes if” and “no if” examples was modified for 4 items and 1 item had a “no if” statement added (step 9).

Steps 10–12: Finalize checklist, apply and disseminate, periodically review and revise

Application of the 12-step CDC process resulted in a final 21-item UCC, covering

Table 2

Demographic Characteristics of 48 Focus Group Participants Who Participated in Development of the Uncertainty Communication Checklist for Patient Discharge From the Emergency Department, Thomas Jefferson University Hospital and Northwestern Memorial Hospital, 2018

Characteristic, unit of measure	Value
Age, mean (SD)	46.4 (16.0) ^a
Race, no. (%)	
White	12 (29.2)
Black	25 (52.1)
Asian	4 (8.3)
Other	4 (8.3)
Ethnicity, no. (%)	
Hispanic	5 (10.4)
Non-Hispanic	42 (87.5)
Female, no. (%)	24 (50.0)
Marital status, no. (%)	
Married or in domestic partnership	9 (18.8)
Single (never married)	31 (64.6)
Widowed	4 (8.3)
Divorced	3 (6.3)
Speaks English as primary language, no. (%)	42 (87.5)
Household size, mean (SD)	2.5 (1.6) ^{a,b}
Household income, no. (%)	
< \$10K	10 (20.8)
\$10K–\$24K	6 (12.5)
\$25K–\$49K	7 (14.6)
\$50K–\$99K	8 (16.7)
> \$100K	4 (8.3)
Educational attainment, no. (%)	
Less than high school	3 (6.3)
High school graduate	20 (41.7)
College degree	16 (33.3)
Postgraduate degree	7 (14.6)
Employment status, no. (%)	
Working	18 (37.5)
Self-employed	3 (6.3)
Unemployed	7 (14.6)
Disabled	14 (29.2)
Retired	5 (10.4)
Has health insurance, no. (%)	45 (95.7)

(Table continues)

Table 2

(Continued)

Characteristic, unit of measure	Value
Literacy screening questions, no. (%)	
"Never" needs help reading medical instructions	24 (50.0)
"Always" feels confident filling out medical forms	24 (48.9)
"Never" has difficulty understanding written information from a provider	23 (48.9)
Health status, no. (%)	
1 = excellent	3 (6.3)
2 = very good	9 (18.8)
3 = good	14 (29.2)
4 = fair	13 (27.1)
5 = poor	7 (14.6)
Has primary care doctor, no. (%)	44 (91.7)
Health care utilization, median (range)	
No. of hospital admissions	0 (0, 20) ^{a,b}
No. of emergency department or urgent care visits	1 (0, 14) ^{a,b}
No. of doctor office visits	4 (0, 100) ^{a,b}

Abbreviation: SD, standard deviation.

^aAt least one participant declined to answer.

^bCalculated by omitting missing data.

7 major categories: introduction, test results/ED summary, no/uncertain diagnosis, next steps/follow-up, home care, reasons to return, and general communication skills. See List 2 for the UCC, and Supplemental Digital Appendix 1, available at <http://links.lww.com/ACADMED/A807>, for the UCC including scoring instructions.

Discussion

We developed the UCC to guide the teaching and assessment of trainees for discharging patients from the ED in the setting of diagnostic uncertainty. Our patient-centered systematic approach to checklist development built upon the rigor of the preexisting CDC and provides an illustration of how to integrate patient feedback into the design of assessment tools when appropriate.

Patients have been engaged in the past to develop other communication rating guides, yet we are not aware of

any other work in which patients have directly assisted throughout the checklist development process. Standardized patients were involved in the development of the SEGUE checklist,¹⁵ and audio-recordings of patient interviews were used to inform item validation for the Patient Perceptions of Patient-Centeredness scale.^{30,31} There are also many communication checklists that employ patients as raters or scorers of the checklist.^{30,34,37} The process with which we developed the UCC used a well-established checklist development structure while incorporating patient input at all key decision points.

Our development of the UCC is particularly novel to checklist development for use with SBML. Most checklists developed specifically for use in an SBML environment have targeted procedural skills (e.g., central line placement, lumbar puncture, thoracentesis).^{19,20,65} To our knowledge, use of SBML for teaching communication skills has only been done in the context of breaking bad news and code status discussion,^{9,10,16,66} and those checklists were not developed with patient input.

The degree to which patient involvement during the checklist development phase may be beneficial likely varies depending on the intended context of use. Actively involving patients alongside experts in development of communication-based checklists may result in a more patient-centered product, whereas patient involvement is likely less informative for technical medical procedures. The degree of influence patient involvement has on checklist development may also depend on the amount of previously topical research that has involved direct patient input. For example, there is a large and growing body of literature focused on patient and family reactions to code status discussions.^{67–69} By contrast, diagnostic uncertainty has been minimally explored in prior work, and there is scant literature about the patient experience of a conversation about uncertainty in the acute care setting; thus, it is a context particularly well suited for patient involvement.

Overall, our experience with patient engagement was positive and patients influenced the checklist in both the

List 1

Operational Definition of the Purpose and Scope of the Evaluation for the Uncertainty Communication Checklist for Patient Discharge From the Emergency Department

Checklist will cover:

- Diagnostic uncertainty
- Medical uncertainty
- Acute care setting, acute illness
- Adult self-care
- Patients being discharged home
- Information giving
- Communication skills deemed important for this topic (e.g., demonstrating empathy/opportunity to ask questions)

Checklist will not cover:

- Illness trajectory uncertainty or treatment uncertainty
- Personal or social uncertainty
- Not chronic illness/symptoms
- Pediatrics, caregivers
- Admitted or observation status
- General history taking
- All general good communication practices (e.g., shaking hands, sitting down)

items excluded from the final list as well as in the wording of the checklist items. Embarking on this process, we initially had concerns about patients' ability to participate in some of the steps of the process, particularly in step 8 wherein they helped to determine the scoring of the checklist; however, patient participants quickly understood this task and all portions of the process. One challenge we faced was that patients frequently recommended eliminating items from the checklist that were included by the team because of a strong evidence base for efficacy in communication (e.g., use of a teach-back, which was removed in step 4, use of information structuring to improve recall, which was removed in step 7). Ultimately, the research team followed the patient recommendations on these items because, although they are best practices for general communication, their removal focused the checklist more clearly on the content of the conversation related to uncertainty.

This patient-centered checklist development process incorporated input from patient groups at 3 stages (steps 2, 6, and 8), which directly informed the revisions made by the study team in steps 3 and 7. Additionally, the patient expert panelists were involved in steps 2, 4, 5, 7, and 9. This process of iterative

involvement of experts and patients directly informed many of the checklist items. Although time intensive, we believe this process was highly valuable and is easily replicable and transferable to other contexts of patient-centered checklist development.

Limitations

Our approach has several advantages, yet there are also limitations. The main limitation of this approach is that it is time and resource intensive. Development of the UCC involved not only the coordination of patient recruitment and expert panel meetings but also weekly internal team meetings and additional asynchronous work. Another limitation is that processes involving group dynamics, such as focus groups and expert panel sessions, may be influenced by a single forceful opinion and may not represent true consensus. This risk is particularly present when patients are in the same setting as subject matter experts, as they were in our panel. There is a risk that patient participants may not feel that their input is as important or relevant as that of a subject matter expert. The use of the iterative feedback with the opportunity for anonymous individual input via emailed questionnaires should mitigate this risk. The input from patients in focus groups, rather than solely via an

expert panel, also minimizes this risk. In our experience developing this checklist, there were no significant disagreements in either setting and participants were all very vocal, regardless of their role (patient or expert) or setting (focus group or expert panel). The patients we engaged, however, were all recruited from 2 inner city academic health systems, and the majority were insured. Perspectives of patients in rural and suburban areas and those who are uninsured may be missing.

Another limitation to our approach relates specifically to the topic area: diagnostic uncertainty in the acute care setting. Diagnostic uncertainty is relatively new as a focus for research, and, as such, there are little published data on the topic or established expertise. Our advisory panel, with 5 practicing emergency physicians and 2 research scientists, had experts in health care communication, health literacy, diagnostic uncertainty, underserved populations, simulation, and education.

In addition, our checklist was designed for an educational setting. While patients were involved in its development, the checklist was not designed for use during real patient encounters. Involving patients during doctor-patient interactions using a physical checklist is a "next frontier" of patient engagement.⁷⁰ We believe that this type of engagement will be well suited for the topic of diagnostic uncertainty. Finally, while the UCC has content validity based in its codevelopment with patients to whom the content applies, we are unable to assess the scoring validity of the checklist at this time as we have not yet obtained scores for a cohort of participants.

Implications and Future Directions

With an ever-increasing focus on patient-centered care delivery, our method of incorporating patient input into the checklist development process has many possible applications, particularly in clinical communication skills. Next steps for our work with the UCC include assessment of the impact of the UCC on patient outcomes during and after an ED discharge, including subsequent health care utilization. It is conceivable that having more direct conversations regarding the presence of ongoing uncertainty, as encouraged by the UCC,

List 2

Uncertainty Communication Checklist for Patient Discharge From the Emergency Department**Introduction**

1. Explain to the patient that they are being discharged
2. Ask if there is anyone else whom the patient wishes to have included in the conversation in person and/or by phone

Test results/ED summary

3. Clearly state that either “life-threatening” or “dangerous” conditions have not been found
4. Discuss diagnoses that were considered (using both medical and lay terminology)
5. Communicate relevant results of tests to patients (normal or abnormal)
6. Ask patient if there are any questions about testing and/or results
7. Ask patient if they were expecting anything else to be done during their encounter—if yes, address reasons not done

No/uncertain diagnosis

8. Discuss possible alternate or working diagnoses
9. Clearly state that there is not a confirmed explanation (diagnosis) for what the patient has been experiencing
10. Validate the patient’s symptoms
11. Discuss that the ED role is to identify conditions that require immediate attention
12. Normalize leaving the ED with uncertainty

Next steps/follow-up

13. Suggest realistic expectations/trajectory for symptoms
14. Discuss next tests that are needed, if any
15. Discuss who to see next and in what time frame

Home care

16. Discuss a plan for managing symptoms at home
17. Discuss any medication changes
18. Ask patient if there are any questions and/or anticipated problems related to next steps (self-care and future medical care) after discharge

Reasons to return

19. Discuss what symptoms should prompt immediate return to the ED

General communication skills

20. Make eye contact
21. Ask patient if there are any other questions or concerns

Abbreviation: ED, emergency department.

could affect subsequent utilization in either direction. Patients may have higher trust in providers based on these conversation and feel more confident in staying home to “wait out” their symptoms. Or alternatively, patients may feel more motivated to seek follow-up care based on the higher emphasis on ongoing uncertainty.

Additionally, prior studies suggest that patients struggle with issues related to uncertainty even in the setting of a confirmed diagnosis (i.e., treatment success, prognosis across diagnostic).^{50,71–74} Thus, it is possible that many of the items within this checklist address needs that are neither unique to patients with diagnostic uncertainty nor to patients being discharged specifically from the ED setting and that these items

should be incorporated as a standard process for all clinical discharges. Future work is needed to explore whether there is a core set of items within the UCC that should be incorporated as a standard process across all discharges.

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