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Journal of Medical English Education, the official publication of The Japan Society for Medical English Education, was founded in 2000 to promote international exchange of knowledge in the field of English education for medical purposes. Until June 2006 (Vol. 5 No. 2), the registered title of the Journal was Medical English - Journal of Medical English Education; the current title, which was registered in December 2006 (Vol. 6 No. 1), should be used for citation purposes.

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第18回 日本医学英語教育学会 学術集会 開催案内

日本医学英語教育学会は1988年に第1回医学英語教育研究会が開催され、その後、医学英語に関する研究を推進し、医学英語教育の向上を図る目的で学会として発展して参りました。現在では400名以上に及ぶ会員を有しております。

医学英語教育は卒前・卒後・生涯教育として重要であり、医療の国際化、医師国家試験の英語問題導入や医学英語検定試験など、専門職教育の限られた時間でどのように教育を行うかが課題です。学術集会では例年、医療系の英語教育に係わる教員・研究者・医療関係者が参加し研究・事例を報告します。平成27年度学術集会は下記により開催します。日本医学教育学会の委員会に協力をお願いし、学術活動について情報交換していただきたいと思います。

記

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日 時：平成27年7月18日（土）～19日（日）
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First Announcement

The 18th Annual Conference of the Japan Society for Medical English Education

The Japan Society for Medical English Education (JASME) held its first meeting as a ‘study group’ in 1988. Since then, the society has continued to grow in promoting the development of medical English education, supported by over 400 members.

Medical English education has become a significant part of basic, postgraduate and continuing education. With the globalization of medicine and recent changes, such as the introduction of the Examination of Proficiency in English for Medical Purposes (EPEMP), JASME has become active not only within the society itself but has also extended its involvement and responsibilities in ways which contribute to society.

The 18th JASME academic meeting will include plenary lectures, educational lectures, oral presentations, and symposia workshops. We welcome submissions on various topics related to medical English education such as: educational methods, assessment, student evaluation, integration of language education and specialized education, medical English for nursing and other healthcare related fields, medical English editing, teaching of medical writing, EPEMP, etc.

Date: July 18 (Saturday) to July 19 (Sunday), 2015
Venue: Okayama Convention Center
14-1 Ekimotomachi, Kitaku, Okayama
President: Isao Date
(Neurosurgery, Okayama University School of Medicine)

Call for papers: Proposals for papers on the following subjects should be submitted by the 20th of April, 2015.
- goals, methods, and assessment of medical English education
- student evaluation
- integration of language education and specialized education
- global human resource development
- medical English for nursing and other healthcare-related fields
- ICT/simulation education for EMP
- faculty development
- teaching of medical writing
- medical English editing
- how to make slides and give presentations at international meetings
- USMLE preparation
- medical interpretation
- EPEMP, etc.

All submissions should be made online. Only submissions by members in good standing of JASME can be accepted.

Registration: Please access the JASME homepage for details.
URL: http://www.medicalview.co.jp/JASMEE/gakujutu.shtml

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Editor’s perspectives

Stepping up to the plate

Reuben Gerling retired as Editor-in-Chief of the Journal of Medical English Education (JMEE) on July 20th this year, having taken up the post jointly with Toshimasa Yoshioka in 2008 to replace the Journal’s second editor, Nell Kennedy. Professor Yoshioka became Associate Editor after the Editorial Committee was established in 2011; he retired from this post in April 2013, when he was appointed Chancellor of Tokyo Women’s Medical University. I then became Associate Editor, not realising at the time that Reuben was actually grooming me to succeed him. The succession is now complete, but the grooming is not. Reuben has the new role of Executive Advisor, which is certainly not intended as a ceremonial post: along with the rest of the Editorial Committee, I will continue to draw heavily on the expertise his long experience at the helm of this important Journal has given him.

I am also fortunate to be able to count on the expertise and continued support of Clive Langham (the new Associate Editor but by no means new to the Committee), Takaomi Taara (who continues as Japanese Editor) and Saeko Noda (who stays on the Editorial Committee); in addition, I welcome Mika Endo of Tokyo Women’s Medical University and Alan Hank of Toho University School of Medicine as new members.

The lineup of Review Editors remains unchanged, with James Hobbs, Eric Jego and Jeremy Williams in charge of submissions in English, and Ruri Ashida and Takayuki Oshimi on call to arrange reviews of submissions in Japanese. Each manuscript submitted to the Journal is sent initially to one of the Review Editors, who then works together with two other qualified people of his/her choosing to produce a set of recommendations for the Editorial Committee. The time and effort devoted to the review process by the Review Editors and other unnamed reviewers are considerable, and their work is invaluable in maintaining and improving our publication standards for the benefit of authors and readers alike.

As Editor-in-Chief, my first concern will be not to allow standards to slip. With the support of the above team, this should not be too hard a job. However, the most important factors in maintaining and perhaps raising standards are the quality and quantity of contributions we receive, so I would like to encourage members and non-members of JASME to share their relevant experiences and insights through our Journal. JMEE is an excellent platform for those involved in medical English education to pass on their know-how to others in the field, and I know how much I would have appreciated such help when I ended up, quite coincidentally and with no background at all in medicine, teaching at a medical college nearly thirty years ago. Those new to the field can also be inspirational to us veterans in providing fresh ideas and approaches, so they should not hesitate to contribute.

For years, our Guidelines for Authors indicated that papers should be submitted in the IMRAD format, which is actually far from ideal for those who want to contribute articles on non-experimental research or practice. I think this stipulation probably had the effect of discouraging many budding authors from contributing – it did me. However, we revised the guidelines earlier this year, and the new version specifically states that it is unnecessary to follow this format. I hope this will lead to an increased number of submissions. At the same time, I hope that all contributors, including those who have published with us before, will take the time to review the updated guidelines (http://www.medicalview.co.jp/jmee/scope/index.shtml).

One of the last decisions the Editorial Board made under Reuben’s leadership was to devote one issue of the Journal every two years to a specific topic. The first of these special issues will be Vol. 14 No. 3 (scheduled for publication in October 2015), and the topic we selected is extracurricular activities. What we envisage is a collection of articles detailing the efforts medical and nursing schools across Japan – and perhaps the world – are making to further students’ English skills outside their regular curricula. We will welcome articles describing, for example, in-house activities organised by students or staff, collaborative efforts between English teachers and clinicians, or overseas study programmes. This issue will, we hope, serve as a useful resource for those looking for ideas to expand the opportunities they can offer their students to improve their English proficiency in medical settings. A call for papers specifically for this issue will be circulated soon via the mailing list.

Let me conclude with the good news that Patrick Baron, Vice Chair of JASME, is this year’s recipient of the Swanberg Distinguished Service Award, which is presented by the American Medical Writers Association to people who have “made distinguished contributions to medical communication or rendered unusual and distinguished services to the medical profession” (http://www.amwa.org/swanberg). Patrick is not only the first JASME member to have received this award but also the first non-American. I am sure all members of JASME and readers of JMEE will join me in congratulating him on this well-deserved recognition of his contributions to our field.

T.D. Minton

Editor-in-Chief

Journal of Medical English Education
Present situation of and future outlook for undergraduate English for medical purposes education in Germany

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Increasing internationalization and globalization in medicine, with the need to deal with English as the lingua franca in medicine, can be observed worldwide. This trend is obvious in Germany as well, making it necessary for all medical schools to offer structured English for Medical Purposes (EMP) courses in their undergraduate medical curricula. So far, there are no compiled data available as to how EMP is offered at German medical schools for undergraduate medical students. The objectives of this report are to shed light on the current situation of EMP at German medical schools and to give a possible framework for the implementation of longitudinal EMP curricula in undergraduate medical education. A survey including all 36 German medical faculties as well as a scoping review were undertaken to obtain information on the current status of EMP education in this country. An extremely diverse picture of EMP education was found, showing university-associated language centers and diverse departments of medical faculties offering EMP. In the majority of cases, there is no cooperation between language centers and medical faculties. To make a longitudinal EMP curriculum for undergraduate medical students in Germany possible, close cooperation between multiple disciplines, including language specialists and medical personnel seems essential. We propose a framework to accomplish the implementation of a longitudinal EMP curriculum taking into account the necessity of multidisciplinary cooperation.


Keywords
undergraduate medical English education, longitudinal English for medical purposes curriculum, framework

1. Introduction

English has long been recognized as a fundamental prerequisite for international medical training and medical schools in countries throughout the world are establishing programs in medical education that are fully or partly taught in English. Institutions in some countries include English language examinations as part of their selection procedures for residency programs. This is due to the fact that large-scale migration of both health-care providers and their potential patients is taking place, and that clinicians and their colleagues regularly face situations where English is being used as the lingua franca in patient-doctor as well as professional consultations. Furthermore, the need to know English in order to read and write scientific papers is widely recognized as a prerequisite for professionalism in medicine.

This trend can also be observed in Germany, where there are 36 medical faculties with a yearly output of over 10,000 medical school graduates. Nonetheless, there is no official requirement for EMP integration into German medical education so far. The last revision of the medical licensure act in 2012 has indeed innovated current curriculum requirements in stressing the importance of implementing communication skills programs longitudinally in German medical curricula. In article 1 (§§ 1, 28), the creation of a longitudinal communication curriculum is required, leaving it up to the individual faculties as to what precise elements this communication curriculum should encompass. Whether
EMP should be part of this longitudinal communication curriculum is not specified. As English in medical education can be utilized as an intercultural approach to teaching not only language, but also ethical values in medicine, as part of a communication curriculum, it is necessary to understand if and how EMP is presently established at German medical schools. The aims of this article were therefore threefold: to obtain an overview of the present situation of EMP in German undergraduate medical education; scoping the field to explore the range, extent and nature of EMP activity in Germany; and finally to suggest a framework which can be used as a guideline when planning and implementing longitudinal EMP curricula, not only in Germany, but also in other countries of the European Union.

2. Methods

2.1. Survey

For an analysis of the current situation of EMP in Germany, a questionnaire was developed and sent to all German medical faculties listed on the website of the "Medizinischer Fakultätenrat", the umbrella organization of German medical faculties (n=36), in December 2011. Due to the initially low response rate of 8%, the survey was repeated in 2012 via telephone calls and e-mail contact to the medical deans’ offices. By these means, data from 31 of the 36 medical faculties were obtained (final response rate 86%). In four faculties, the contacted personnel could give no information on the questions raised; one medical faculty refused to respond.

The following themes were discussed:

2.1.1. Course description: Does your medical faculty offer courses in "English for Medical Purposes"? If yes, please give a short description of the contents and learning objectives.

2.1.2. General conditions: How many students can participate in this course each semester? How many credit hours does the course have? What level of general medical education is required for participation?

2.1.3. Organization: How many staff members are responsible for teaching? What qualifications do these teachers have?

2.1.4. Financial aspects: Are there any costs for the students involved?

2.2. Scoping review

On the basis of the information obtained in the survey, an analysis of the course descriptions published in the official institutional websites was conducted and a scoping review performed. A scoping review is a type of literature review intended to explore the range, extent and nature of data obtainable concerning a certain field of interest. It may be used to determine the value of a systematic review, identify gaps in the literature, as well as summarize and disseminate findings.

3. Results

3.1. EMP in Germany: the survey

The results of the survey compiled 2011-2012 showed a very heterogeneous picture regarding the courses offered on EMP at German medical faculties.

3.1.1. Course descriptions

When contacting the deans’ offices in charge of the medical curricula, it quickly became clear that many German medical faculties did not offer EMP and that courses in this field were largely delegated to language centers, frequently associated with the university, not with the medical faculty. Courses in EMP are therefore frequently integrated into a set of courses covering different disciplines such as law, economics or natural sciences. Of the 31 responding institutions, 22 offered one or more courses in EMP (71%) and 9 had no course offers (29%). Forty-five courses per semester were offered in total, and 16 language centers offered more than one course per semester.

Due to the fact that EMP in Germany is not an obligatory discipline integrated into medical curricula, medical faculties or university language centers structure their courses according to the “needs” of medical students. No official needs assessments of stakeholders were available for the survey. The contents of the courses offered were extremely diverse. Many courses offered for medical students in their preclinical education focused on English medical terminology and abbreviations as well as on preparing students for doctor encounters, writing a patient history and patient presentation, focusing on reading, listening and speaking skills. These courses used various tools such as role playing in patient-doctor encounters, writing a patient history and patient presentation, focusing on reading, listening and speaking skills. No longitudinal curricula in EMP offering courses for all medical students over several years of their medical education exist in Germany so far.

3.1.2. General conditions

In the EMP courses (all elective) evaluated in this survey, the course size had a median of 8-12 participants with a
maximum of 30 participants. In 5 courses, the lesson length was 45 minutes. In one of these courses, the lessons were given at the rate of once a week over 14 weeks; in the remaining 4 courses they were given as a block seminar of 14 lessons over 2-4 days. In 18 courses, 90-minute lessons were offered over one semester (14 weeks) and in 20 courses over two semesters (28 weeks). Two courses were more intensive and offered classes of 3 hours per week over 14 weeks.

In 20 courses, medical students of every level of education could participate, while 11 courses were only open to preclinical medical students in their first two years of education; 14 courses were restricted to medical students in their clinical years (3rd to 6th year of medical school).

3.1.3. Organization

In the survey, no course in which more than one teacher was involved in teaching the course could be identified. The qualifications of the teachers were as diverse as the content of the courses offered. Most teachers recruited had a background in language education. Nine teachers were identified as having a medical background (defined as an education in a health profession), accounting for 26% of the teaching personnel identified in the survey.

3.1.4. Financial aspects

Most EMP courses in Germany are free of charge. Of the language centers offering EMP courses, only 3 offered courses where tuition fees were required, ranging from 30 to 60 Euros per semester.

3.2. EMP in Germany: scoping review results

The following scoping review gives details of the offered courses, including characteristics, similarities, differences and assessment.

3.2.1. Purposes and aims

The purposes of the EMP courses offered were multifaceted. Most institutions focused on listening, speaking, reading, and writing skills by teaching mainly English medical terminology in the classroom; very few, however, offered tuition in EMP using complex simulated patient scenarios, for example. Role-play and simulated patient scenarios were rarely used to teach medical skills such as history-taking or physical examination. Preparatory courses for electives in English-speaking countries as well as the training of presentation skills for medical conferences or ward rounds were offered for improvement of the participants’ scientific language skills, as well as their oral and writing skills. Reading and commenting on medical cases and scientific papers, listening to audio scripts and writing short medical reports as well as filling out patient information forms were mentioned. Some courses focused on cultural awareness and competence in health care. Others specifically addressed medical students who are planning to take the United States Medical Licensing Examination USMLE, and offered preparatory courses. One program (Ludwig-Maximilians University -LMU- Munich) actually offers a wide variety of EMP courses and mentioned the following aims explicitly (see Table 1):

- Prepare LMU students for working in an English-speaking clinical environment.
- Provide insights into global medicine and the teaching of medicine abroad.
- Make medical education at LMU more attractive and accessible for international visiting students and scholars.
- Provide information for LMU students interested in taking the United States Medical Licensing Exam (USMLE). 

Another special program worth mentioning is offered by the Charité, the University Hospital in Berlin, where a fruitful collaboration between language teachers and medical faculty from two countries has evolved. This five-day course is offered to preclinical medical students twice a year and includes topics such as cultural diversity, end-of-life issues, mistakes in medicine, vulnerable populations, and interactions with the pharmaceutical industry. The course gives students the opportunity to apply English as the international language of medicine in speaking and writing, and makes use of a multitude of educational tools such as plenaries, seminars and small-group work.

3.2.2. Course requirements and duration

There was significant variation in the organization of the courses offered, ranging from weekend-long courses, blocks or modules to one or more semester-long courses. One option used frequently by medical students registering for an EMP elective was the so-called “Wahlpflichtfach”. These are mandatory elective courses which require 26 to 28 hours for a credit. Every medical faculty offers a number of such courses, and the students are required to select one during pre-clinical and one during clinical training. Many
German faculties have accepted university-language-center EMP courses as such optional credit courses.

3.2.3. Instructional strategies and format

The descriptions of the EMP courses analyzed clearly suggest that small-group teaching is mainly used in these courses. Lectures, seminars, discussions, self-directed learning as well as preparation of oral or written presentations are the most commonly used instructional methods. Additionally, there were some programs that used simulation (RWTH Aachen University, Leipzig University), peer student-led small-group teaching sessions (Leipzig University), or virtual learning (Friedrich-Alexander University Erlangen-Nürnberg) as an instructional strategy.

3.2.4. Assessment

The optional credit courses at German medical faculties described in section 3.2.2 require an accepted assessment method at the end of the course. In language-center-based courses, this is often done by using “The Common European Framework of Reference for Languages” to obtain an equivalent of the A1, A2, B1, B2, C1 and C2 levels of language competency on which examinations such as the UNICERT are based. For optional credit courses, a wide variety of assessment formats such as essay writing, oral interviews, or unstructured written tests is used.

3.2.5. Staff

From the information retrieved in the scoping review, it was difficult to obtain information on the areas of expertise of the teaching staff. It was observed that a large number of part-time teachers are involved, with mainly linguists or native English-speakers coming from diverse educational backgrounds teaching at university language centers. At the
medical faculties offering EMP courses, mainly doctors working full-time as clinicians or basic scientists were involved as faculty for teaching short EMP sessions. These faculty members have often worked in English-speaking countries themselves for a considerable amount of time and are therefore regarded as sufficiently experienced to teach EMP. Except for the above-mentioned examples in Munich and Berlin, no collaboration was found to exist between teachers of university language centers and medical faculties in the same university town.

4. Discussion

Although it is clear that undergraduate medical curricula will probably be taught mainly in the native language of the country where the future doctor or medical researcher will begin his career, fluency in English as a second language for aspiring health professionals is becoming an essential requirement for two reasons: firstly, the number of foreign patients is increasing, and not only in the urban areas of industrialized countries; secondly, medical research publications are predominantly written in English. This leads to the fact that not only doctors looking for careers in science or academia need a command of EMP, but also doctors involved in routine clinical work need EMP to communicate with foreign patients and to maintain continuous medical education in a world that is constantly becoming more globalized.

The survey and scoping review presented here shed some light on the situation of EMP in Germany and may serve as a benchmark for proposing relevant aspects for implementing or innovating EMP curricula in countries where English is not the native language.

The results of this study lead to the following three discus-
sion points regarding EMP implementation in medical curricula:
1) Who are EMP stakeholders?
2) What are the attributes of an appropriate EMP teacher?
3) Is there a useful framework for EMP implementation in medical curricula?

4.1. Who are EMP stakeholders?
In the course of establishing the Hungarian Proficiency Examination in EMP, PROFEX, Rebek-Nagy et al. carried out an extensive needs assessment among professors, students, practicing physicians and allied health workers, and determined a range of needs for EMP, namely history-taking; giving explanations to patients, staff members, and peers; giving and understanding conference presentations; conducting professional conversations with peers and other staff members; writing official letters, reading research articles and hospital documents; and translating EMP texts from and into English and summarizing longer biomedical texts in English.

It may be worth considering that in addition to the stakeholders mentioned in the study above (foreign) patients are stakeholders in this context as well and should be heard. For them, the medical skills of history-taking or physical examination cannot be separated from the skill of EMP, but can only be assessed in combination with communication skills, namely the patient-doctor interaction as such.

4.2. What are the attributes of an appropriate EMP teacher?
The survey and scoping review results presented in this paper show that, in Germany, mostly university-associated language centers provide EMP training to German undergraduate medical students, and that most teachers involved do not have a medical background. The question arises whether the language teacher with no educational medical background or the experienced medical professional with no language-training background is best qualified to teach the subject. Benfield and Peak argue that the input from both a language professional and an experienced peer is important and that the language professional should ideally be an academically trained and experienced applied linguist, and the peer a specialist in the subject matter. Two examples from the scoping review results show that this can be achieved: at the Charité University Hospital in Berlin experts from a variety of fields (medicine, psychology, linguistics) have integrated the course concept of Chicago's Northwestern University Feinberg School of Medicine "Patient, Physician and Society" into the elective curriculum.

This course concept is well in line with Skelton's discussion of language and clinical communication. Skelton is sceptical about a "checklist" approach to teaching communicative fluency and structural language accuracy and focuses on classroom and hospital-based tasks that learners are required to perform as students as well as in their later career. It must be kept in mind, though, that only a minuscule portion of all medical students at the two institutions mentioned can participate in these courses; a longitudinal approach in the curriculum to integrate EMP into compulsory sessions and assessments for all medical students is still far from being established at German medical schools.

Best-practice examples for effective cooperation between language and medical professionals in teaching EMP can be found in Japan, where medical schools have founded Departments of International Communication to promote EMP at their faculties such as at Tokyo Medical University, for example. Such organizational efforts show how EMP is valued in certain countries and how effective cooperation between applied linguists and medical staff can be achieved.

4.3. Is there a useful framework for EMP implementation in medical curricula?
Conceptual frameworks in medical education are widely accepted to "illuminate and magnify" thinking about a problem or a study. Frameworks encompass a group of categories to reflect the educational goals by which a trainee's level of competence or progress can be measured. The need for supranational longitudinal EMP curricula is evident: the Hungarian Proficiency Exam based on the Common European Framework for Languages is an example of trying to establish a European exam for EMP on the language level. Furthermore, the necessity of standardized EMP curricula as well as national and international EMP goals has been formulated in Japan. Keeping in mind the needs assessments for EMP as well as the necessity to integrate EMP into medical curricula as a whole, the concept of Azer et al., "Enhancing learning approaches: Practical tips for students and teachers," may serve as an
excellent framework for an integrated EMP curriculum. Within this framework, 12 tips are organized under three themes to provide students with concrete tools to achieve deep learning. Active learning and application of learning beyond the classroom as well as service learning settings are described to ultimately serve the community and real-life patients. Figure 1 summarizes the themes and tips given and relates them to the teaching personnel involved in EMP teaching in Germany or elsewhere in the world, as well as to where in the preclinical and clinical curriculum the themes and tips can optimally be placed.

While the application of specific techniques that foster deep learning is an integral part of problem- and task-based learning approaches in modern medical education,20 the tools mentioned under theme 1 can ideally be integrated into EMP classroom settings with language teachers as the main personnel involved. Learning how to ask good questions (tip 1), using an analogy to engage in thoughtful discussions (tip 2) and synthesizing mechanisms into a master diagram (tip 3) are tools that do not require teachers with an in-depth medical training and can be accomplished in PBL or TBL sessions ideally by language educationalists and should be integrated into the first years of a medical curriculum. Joining a peer-tutoring group (tip 4) is an educational tool widely used in German skills labs,21 where medical students are employed and trained to lead small-group training sessions as student tutors. Tips 1 to 4 are all basic requirements a medical student should encounter to proceed effectively in further medical training. Developing critical thinking skills and using self-reflection (tips 5 and 6) as well as the mastery of active learning using EMP as a tool requires an interdisciplinary networking approach among medical educationalists, medical staff and language experts. Tip 10, practising learning by using simulation, should be considered in the light of increased interest worldwide in the use of simulation in undergraduate medical education as an excellent tool for interdisciplinary learning early on.22 Here, the foundation should be laid for learning beyond the classroom, where medical experts, language experts and foreign patients themselves take over the teaching of EMP. Using this framework, we suggest that a guideline unique to each medical school can effectively be formed for ultimate EMP integration into a longitudinal EMP curriculum.

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Factors dissuading Japanese doctors from presenting more frequently at international conferences: more than just the usual suspect(s)?

Greggory Wroblewski, Junko Wroblewski, Takashi Matsumoto, Isao Nozaki, Toshiharu Kamura, Ryukichi Kumashiro, and Koh Shinoda

Despite the quantity and quality of the country’s biomedical research and innovation, Japanese doctors seem to present their findings infrequently via poster and oral presentations at international conferences. While anecdotal accounts suggest that self-consciousness over their English ability may lead to reticence in presenting, until now a study to examine the veracity of this claim has been lacking. For this reason, 200 staff at three separate medical facilities in Western Japan were surveyed by paper questionnaire to identify factors that precluded more frequent participation. Here, results indicated that lack of confidence in their ability to communicate their findings and field questions in English seemed to be the strongest precluding factor, but it was not the only one. Travel costs and job-related time constraints were also strong factors overall, with men and those respondents over 40 identifying both at higher rates than their female counterparts and those under 40, respectively. Additionally, surgeons were more likely than their non-surgeon and “lab work focus” colleagues to implicate excessive work as a factor. The overall findings suggest that varied educational and cultural considerations must be considered concurrently in any attempt to increase the number of presentations by Japanese doctors at international conferences. As implications for English instructors specifically, providing increased exposure to the target context through English journal clubs and similar contexts is a feasible short-term goal for addressing this issue with Japanese medical students and physician–researchers interested in sharing their research with an international audience.


Keywords: English for medical purposes (EMP), Japanese doctors, international conferences, oral presentation, poster presentation, survey

1. Introduction, Background, and Objectives

Despite being near the top of world rankings in several indicators demonstrating quantity and quality of contributions to global medicine, and despite the many benefits of presenting one’s data orally via poster or presentation, statistics suggest that Japanese doctors are disproportionately absent when it comes to doing so at international conferences, i.e. in English. A lack of English proficiency is often cited as a reason Japanese researchers are at a competitive disadvantage on the global stage, and in one study of medical doctors, sig-
significant performance anxiety over presentations specifically was reported. However, it is unclear whether perceived English inadequacy in and of itself is enough to dissuade them from doing so; quite possibly, there are other unrelated factors involved in their low participation frequency at international meetings. Until now, no detailed survey of the factors that discourage them from presenting more frequently has been undertaken. Thus, the present study was designed to test the hypothesis that Japanese doctors limit their participation in such events due to feelings of self-consciousness or inadequacy with regard to their English communication skills. Additionally, we also set out to identify any significant differences by gender, age, or department category. Validating their perceptions and identifying weak points in their presentation skills were not goals of the present study.

A questionnaire was distributed to 200 doctors from three separate facilities in Western Japan in November and December 2012 with the aim of clarifying the factors that influence their decisions about presenting at international conferences. Findings could help to inform future English education at Japanese medical schools and/or provide suggestions for hospital and university administrators on how to maximize support for physician–researchers who want to collaborate with overseas colleagues and advance their careers through poster and oral presentations.

2. Methods
2.1. Participants

An anonymous survey on factors precluding more frequent presentations at international conferences was taken of medical doctors from the following facilities: Kokura Medical Center (KMC), Kitakyushu (N = 40), Kurume University School of Medicine and University Hospital (KU), Kurume (N = 118), and Shikoku Cancer Center (SCC), Matsuyama (N = 42). Selected background statistics for each facility can be found in Appendix 3. These particular hospitals were chosen A) because of professional associations between staff members and the authors and B) to enable responses from diverse facility types (a general hospital, university hospital, and cancer center, respectively). All of the participants surveyed were medical doctors (MDs) or MD/PhDs.

The survey itself was formulated in English (Appendix 1) and then translated into Japanese for distribution (Appendix 2) by one of the authors at each respective facility. At KMC and SCC, hard copies were printed and made available at a monthly hospital-wide staff meeting. At KU, the questionnaire was forwarded via e-mail to all departments, and each department head was asked to distribute a hard copy questionnaire at his/her respective regular staff meeting if possible. Completed forms were collected at the end of each meeting.

2.2. Materials

The survey was divided into two sections. The first section deals with the number of presentation experiences and the existence of any previous English presentation skills training. The second section consisted of six items requiring "level of agreement" responses using a Likert 5-point scale. Survey items were based on implications from the existing literature, e.g., educational and cultural factors as well as mundane considerations such as travel expenses and workload that might affect the decision to attend and present at an international conference. An "Other" line allowed for open-ended responses to the question of precluding factors. Items for age, gender, and department were also included to allow for comparative analysis between groups.

2.3. Data analysis

For comparative analysis, data were analyzed according to A) respondent population overall, B) gender, C) age group (those under the median age and those above), and D) "department category." The department category groupings used were surgical (patient care including surgery, e.g., obstetrics & gynecology or orthopedics), non-surgical (patient care without performing surgery, e.g., internal medicine or psychiatry), and lab work focus (rarely seeing patients, e.g., physiology or hematology). Statistical analysis was performed via the chi-square test and results with p < 0.05 were deemed statistically significant.

3. Results

Selected data can be found in Appendix 3, and for simplicity’s sake, the median age of 39.5 will be rounded to “40” from this point forward. Particularly relevant findings are outlined below:

a) The majority of those surveyed had little to no experience presenting to an international audience, with 36% having never done so and 66% having presented 3 times or less. When asked if they had ever taken an English presentation skills-type course in preparation for a career in research, only 6% responded in the affirmative. For both categories, there were no significant differences between groups.

b) When asked which factors discouraged more frequent
delivery of poster or oral presentations at international conferences (see Figure 1), the lowest level of agreement was in response to the statement "I don’t think presenting at international conferences is necessary/important," with only 6% showing any level of agreement.

c) As a whole, the greatest level of agreement was to the statement "I’m not confident in my ability to communicate/field questions in English," with 68% expressing some level of agreement and 34% strongly agreeing. There was also a significant difference by age group, with 82% of those under 40 expressing some level of agreement, but only 61% of those over 40 (P = 0.003).

d) For the general population, there was also a high level of agreement to the statement "Associated expenses (airfare, lodging, etc.) are too high (i.e. exceed research budgets)" (58%). There was a significant difference by gender, with 67% of males expressing some level of agreement compared to 31% of females (P = 0.0003), and those over 40 were more likely to agree than those under 40 (66% and 54%, respectively, P = 0.04).

e) Forty-four percent of those surveyed also expressed some level of agreement with the statement "I’m too busy with work and job responsibilities to attend such conferences," and there were significant differences by gender (M = 49%, F = 22%, P = 0.001), department category (surgical = 74%, non-surgical = 57%, lab work focus = 44%, P = 0.008), and age (> 40 = 51%, < 40 = 36%, P = 0.04).

f) In response to the statement "I’m not good at speaking in front of an audience," 31% expressed some level of agreement, and 22% expressed some level of agreement to the statement "I don’t think the quality of my data is high enough to present." There were no significant differences by group.

In addition, a number of respondents indicated "Other" factors; their responses were translated into English and included in Appendix 4.

4. Discussion

4.1. Prior experience and coursework

Prior experience items indicated that roughly two-thirds of those surveyed had presented at international conferences 3 times or less over the course of their entire careers. The relative lack of presentations agrees with the findings of a survey of nearly 3,000 doctors in which roughly three-quarters of respondents did so "only once every several years" or "almost never" did. And while one might reasonably expect that younger, less experienced doctors be disproportionately represented in this category simply because their older colleagues had had more opportunities over the years, in the current study this was not the case. There was no significant difference between those above and below 40. As a preliminary finding, this seems to suggest that factors other than age were responsible for limiting presentations at international conferences.

The fact that only 6% of total respondents reported having taken an English presentation skills course in the past dovetails with observations by those such as Pribyl et al.
suggesting a relative lack of English presentation skills university courses in general, and especially for medical researchers historically in Japan.13 This does, however, seem to be slowly changing as indicators exist that teaching presentation skills in English for specific purposes classes is on the increase at Japanese universities as educators recognize the need for applying those skills in both educational and workplace contexts.14

4.2 Major precluding factors

4.2.1. Perceived importance to one’s career: A disconnect between theory and practice

In the current survey, the lowest level of agreement was in response to the statement "I don't think presenting at international conferences is necessary/important," with only 6% expressing any agreement whatsoever. This finding seems to reflect the importance of presenting in the minds of the Japanese medical establishment at large, as demonstrated in a survey of nearly 3,000 doctors in which roughly three-quarters of them considered that including English for Scientific Presentation courses in medical school curricula was "important" or "extremely important."12 By implication, this most likely means that the application of said training at international meetings is also considered to be highly valued by the Japanese medical establishment. However, as described in 4.1, roughly two-thirds of those surveyed in the current study had presented 3 times or less. At least for this sample, there appears to be a striking disconnect between theory and practice. Consequently, it seems unlikely that low participation frequency is a function of any perceived irrelevance in the minds of Japanese doctors.

4.2.2. Lack of confidence in English ability

While there have been some accounts suggesting Japanese doctors experience language-related anxiety when presenting their research in English,12 this appears to be the first study demonstrating how such a lack of confidence in a sizable and varied sample group could be the most significant factor when many of them decide whether or not to present.

While the source of this hesitation is still unclear, one possibility is the basic framework of English education in Japanese medical schools. For example, Kawagoe's broad survey on the current state of English education in medical and nursing schools around Japan revealed that only around 20% of English study overall was spent on "speech/presentation" or "English conversation (medical)." These numbers seem comparatively small, especially in light of the fact that nearly one-third of class time was still being spent on general English conversation and listening skills work. Furthermore, according to the same study, shortages of English teachers in general and English-speaking foreign staff were reported, with almost half of those universities surveyed reporting a complete lack of field-specific English staff. And in contexts where they were indeed present, nearly 40% of staff were native Japanese speakers (Japanese L1) only.12 These data suggest that many Japanese medical schools may lack the specialist staff necessary to prepare medical students to engage in data presentation and discussion in English with confidence.

While age did not seem to play a role in presentation frequency (see 4.1), comparative analysis did yield a significant difference by age group, with doctors under 40 being less confident than those over 40 in presenting data and fielding questions in English. This could be at least partially attributable to the fact that older doctors have likely been speaking English and engaging in public speaking longer, with the corresponding confidence and desensitization that often accompanies repetition. For this reason, it would seem even more crucial that medical students receive as much practice as possible in English presentation before their careers truly begin and they become comparatively busy.

4.2.3. Economic, cultural, and sociological factors

While perceived lack of English skills may have been the strongest precluding factor, it was not the only one, and this multiplicity demonstrates the complex background that must be considered when examining the low participation rate of Japanese doctors in presentations at international conferences.

For example, a substantial number of total respondents expressed concern over the cost of attending and presenting at international conferences. According to one doctor, all three of the facilities surveyed provide some form of monetary assistance for travel expenses related to giving a presentation – whether through direct reimbursement or through individual research grants. However, when taking into account annual membership fees to the medical associations themselves, meals, and the requisite souvenirs for coworkers left behind, there can still be a significant out-of-pocket expenditure for the doctor involved (personal communication, June 4, 2014), possibly dissuading some from making such a trip.

In addition to a substantial concern expressed on the whole, there were also significant differences between groups. Interestingly, male doctors were more than twice as likely to report monetary concerns than females. In light of
Factors dissuading Japanese doctors from presenting more frequently at international conferences: more than just the usual suspect(s)?

the strict gender roles that are said to still prevail in many Japanese families,15–17 it is possible that female doctors who are married are more likely to belong to dual income households – and presumably less concerned with supplementing travel and conference costs out-of-pocket – than male doctors who are married. Also, the increasing age of marriage that has been reported for women in Japan in recent years16,17 could also mean more expendable income for a longer period for single female doctors.

Those over 40 were also more inclined to worry about expense than their younger counterparts. While data is currently lacking, this could be attributed to the fact that doctors over 40 are more likely to be married and/or have children with the ensuing financial burden that entails, leaving less money to cover conference-related expenses that exceed their research budgets.

Perceptions of being too busy to prepare for and attend such conferences differed by gender, departmental category, and age, with males, surgeons, and those over 40 feeling comparatively constrained. First regarding a difference by gender, the aforementioned perception is at least partially substantiated in a recent study by Nakamura in which male physicians in Japan on average were shown to work roughly 4.5 hours longer per week than their female colleagues (47.5 and 43.0 per week, respectively).18 When considering differences by department category, one of those surveyed suggested that surgeons may indeed be busier than their colleagues, since multiple doctors are required to care for a single patient during surgeries that can often last hours (personal communication, March 20, 2013). Finally, regarding a difference by age, the discrepancy could be explained by the fact that the older the doctor, the more likely s/he is to be married and/or have children, limiting the amount of time after work available for writing abstracts, preparing slides, and so on.

Admittedly, economic, cultural, and sociological considerations are probably outside the purview of pedagogically-minded English for medical purposes (EMP) professionals. Nevertheless, these findings do demonstrate the complex background against which Japanese doctors have to make their decisions.

4.2.4. Other affective factors

While ranking lower than English proficiency, expense, and time considerations on the level of agreement scale, a number of respondents nonetheless agreed that both a lack of interesting data and public speaking itself were also concerns when it came to presenting more. First regarding the former, the level of agreement (22%) in itself is not overly striking, especially when compared to the aforementioned factors more commonly agreed with by participants. However, this seemingly low level of concern over inability to assemble worthwhile data, combined with the fact that there was no significant difference between department categories for this item, suggests that reticence to present internationally likely was not based simply on an inability to conduct research due to one department’s relative emphasis on “research” over “patient care” compared to another. This result implies that, for the current study at least, one’s department category is less responsible for dissuading would-be presenters than other factors.

Public-speaking anxiety in Japan has been well-documented, and the findings of the present study (31% agreement) dovetail with past research. Historically, the Japanese educational system is said to have underemphasized public speaking in general,19 and the act of speaking in front of an audience is thought to be one of the most feared context-based apprehensions in Japan, even when done in Japanese.19,20 Specifically, said anxiety could be attributed to fewer opportunities to learn and practice presentation skills in high school and college than in countries like the U.S.19 These studies as well as the current findings suggest that any attempt to increase the number of English presentations by Japanese physician–researchers should consider affective obstacles as well as linguistic.

5. Implications and Conclusions

Since the sample size for the current study is admittedly small (N = 200) and each facility is representative of a distinct geographic location with its own unique circumstances, extrapolating to a national scale must be done cautiously. Additionally, though tracking age, the current survey made no provision for respondents’ position title. Further research may benefit from comparative analysis between professors and assistant professors, doctors and senior doctors, etc. Finally, while just under half of the doctors at KMC and SCC took the survey, less than one-quarter did at KU. This is most likely due to the fact that distribution and collection at KU was conducted separately by dozens of department heads, all with varying responsibilities and varying levels of free time available for conducting a voluntary survey. For this reason, future questionnaires might benefit from expanded and effective distribution through web-based tools such as SoGoSurvey that can send e-mail invitations for an online survey from an imported list of e-mail addresses,21 thus ensuring that each doctor receives an invitation and can make a personal choice of whether or not to partici-
Regardless of its limitations, the major finding of this study – that lack of confidence in English seems to dissuade potential presenters from giving oral presentations at international conferences more than any other factor – has several implications for EMP professionals in Japan and curriculum planners at Japanese medical schools. Admittedly, changes to the basic framework of English language education in Japan or revised curricula can be seen as long-term goals at best. However, in light of the fact that so few of those surveyed have had regular chances to give presentations, there are a few steps that any instructor who works with medical students or physician-researchers could use now to increase the experience and confidence level of one such learner:

1. As is the case here at our institution, graduate schools of medicine often employ graduate students or post-docs from outside of Japan who speak English as a second or foreign language and use it as a lingua franca while doing research. These researchers frequently present their findings in on-campus seminars or PhD dissertation defenses, and medical students at the same campus can be encouraged to attend their lectures. While the level of English will almost certainly be high, providing our students with the researcher’s written work in advance may serve to activate schema to facilitate the comprehension process. Attendance at these events can be viewed as part of a slow acclimatization process to “presentation language” as well as the kinds of questions that are asked in an English oral presentation setting. As an added bonus, such foreign researchers can serve as role models who have demonstrated ability to advocate for their research successfully using English despite it not being their L1.

2. Since medical school students may have few real-world opportunities to present their research in English, EMP teachers and administrators should encourage or organize the formation of “English Journal Clubs” or similar outlets that meet once a week and simulate the experience of a biomedical presentation context in English. Besides providing further occasion to read journal articles in English and become familiar with their writing conventions, repeated attempts at presenting might also serve to further desensitize students to any generalized public-speaking anxiety. Even if students mainly participate during the first three years of their education while they are comparatively free, such an outlet would provide numerous opportunities for practice over a six-year program.

3. For those of us who serve as advisors to hospital clinical research departments or work with basic researchers, there are also ways to address this issue for those who have already begun their medical careers. For example, journal clubs likely already exist in some form in hospital departments or graduate schools of medicine, albeit in Japanese. Even if one weekly meeting per month was devoted to an English presentation instead, opportunities to practice oral presentation in English would add up considerably over a doctor’s career.

Presentations, and the personal interactions that follow, provide unique opportunities for a researcher. These include enhanced ability to communicate through the use of gestures, intonation, and other methods of non-verbal communication, the convenience of being able to answer questions or address concerns on the spot, opportunities for immediate feedback from the audience after the presentation, and chances to present data regardless of their stage in the development process. Additionally, networking opportunities frequently present themselves after the presentation when the presenter has a chance to mingle with the audience, potential collaborators, or even potential employers. Finally, conference presentations are evidence of an ongoing and active interest in research, and their inclusion can greatly enhance a CV and lead to career growth. When taken into account together with Japan’s relative lack of poster and oral presentations at international biomedical conferences despite world-class research, these factors should serve as strong motivation to improve the preparation of medical school students and doctors – both linguistically and affectively – for presenting their research findings orally to an expanded audience going forward.

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References


**Appendix 1. English version of survey**

*Questionnaire on giving oral presentations at international conferences*

<table>
<thead>
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<th>Date:</th>
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**Department:** __________  **Age:** __________  **Gender:** __________

1. Have you ever given an oral presentation at an international conference?
   - [ ] Yes  
   - [ ] No

2. If "yes," how many times have you done so?
   - [ ] 1 – 3
   - [ ] 4 – 6
   - [ ] 7 – 9
   - [ ] 10 or more

3. Have you ever taken an "English Presentation Skills" type course?
   - [ ] Yes  
   - [ ] No

4. Which factors might prevent you from giving oral presentations at international meetings more frequently? For each of the statements below, rate your level of agreement according to the following scale:

   1 = Strongly disagree  
   2 = Disagree  
   3 = Neutral  
   4 = Agree  
   5 = Strongly agree

   A) I don’t think presenting at international conferences is necessary/important.  
   B) I’m too busy with work and job responsibilities to attend such conferences  
   C) Associated expenses (airfare, lodging, etc.) are too high (i.e. exceed research budgets).  
   D) I’m not confident in my ability to communicate my results/field questions in English.  
   E) I’m not good at speaking in front of an audience.  
   F) I don’t think the quality of my data is high enough to present.  
   G) Other (Please be specific)
Appendix 2. Japanese survey as distributed

国際学会での発表参加に関するアンケート

所属科：_________ 年齢：_________ 性別：_________

1. これまでに国際学会で発表したことがありますか。
   □ Yes □ No
2. 「Yes」でしたら、何度発表しましたか。
   □ 1-3 □ 4-6 □ 7-9 □ 10以上
3. 以前に学術講演のための英語コースを受けたことがありますか。
   □ Yes □ No
4. あなたが国際学会で、口演やポスターフ発表をもっと頻回に行う事を妨げているものは何ですか。
   以下の項目についてgradingして下さい。
   1 = 全く関係ない   2 = 関係ない   3 = どちらともいえない   4 = 関係ある   5 = 非常に関係ある
   A) 国際学会での発表は必要だと思う。
   B) 仕事や役職業務が忙し過ぎて国際学会に参加できない。
   C) 出張費（航空料金、宿泊費）などが高すぎる（制限されている）。
   D) 英語での口演やディスカッションに自信がない。
   E) 人々の前で発表するのが苦手である。
   F) 自分のリサーチデータは重要度が低いと思う。
   G) その他（理由を挙げてください）

Appendix 3. Selected background data and survey results

a. Institutional statistics

Total doctors: KMC = 81, KU = 541, SCC = 90
2013 research output (MedicalOnline*): KMC = 32, KU = 403, SCC = 94
2013 research output (Pubmed**): KMC = 3, KU = 242, SCC = 26

b. Survey: General

Total respondents: 200
Respondents by gender: M = 145, F = 38, unspecified = 17
Age: average = 41.2, mean = 39.5
Respondents by category: surgical = 60, non-surgical = 85, basic research = 40, unspecified = 17
Number of career presentations: 0 = 36%, 1-3 = 30%, 4-6 = 16%, 7-9 = 7%, 10+ = 13%
Respondents having taken an English presentation skills course: 6%

c. Agreement with statements describing precluding factors (avg. out of 5)

I don't think presenting at international conferences is necessary / important: 1.7
I'm too busy with work and job responsibilities to attend such conferences: 3.1
Associated expenses (airfare, lodging, etc.) are too high (i.e. exceed research budgets): 3.5
I'm not confident in my ability to communicate my results / field questions in English: 3.8
I'm not good at speaking in front of an audience: 2.8
I don't think the quality of my data is high enough to present: 3.1

* Includes both journal articles and conference abstracts in Japanese.
** Includes journal articles in English. Does not include conference abstracts.
Appendix 4. “Other” factors precluding more frequent oral presentations

- "Believe it or not, going to international meetings doesn’t always come across in a positive light. I think sometimes it’s perceived as nothing more than an opportunity to get away from the pressures of work and go sightseeing. For me, if going didn’t have this kind of baggage attached to it, I’d probably try to go and present two or three times next year."
- "For the same expense, presenting at domestic meetings the same number of times is looked upon more favorably by your co-workers, other departments, and hospital administration."
- "I don’t feel right leaving behind patients in the middle of ambulatory care, especially the bad ones, for the other doctors to have to tend to."
- "I don’t have any chances to interact with foreign doctors on a regular basis."
- "I don’t really have any opportunity to do so."
- "If given the chance, I’d like to present more often."
- "I haven’t been accepted to present yet."
- "I know that it’d be much easier for me personally if my employer helped more with business trip expenses. I do think though that presenting at international meetings boils down to how motivated you are, but if you’re not good at the sort of discussion with foreign doctors that’s required, it’s a real chore."
- "It is difficult for us Japanese to understand Indian doctors’ talk at international meetings in Asia. However, we need to understand them because they will have a substantial power in the future."
- "Because of obligations with domestic conferences, it’s hard to fit them into my schedule."
- "Leaving means saddling my co-workers with extra work."
- "My going entails more work for the people I leave behind."
- "Not only is the travel expensive, but so are the annual membership fees for professional associations."
- "Personal reasons"
- "The data I’d like to present just doesn’t seem to be coming together."
- "There are already too many domestic conferences I have to attend."
- "Time and money constraints, etc."
- "To me, the current rate at which I present is good enough."
- "We have a shortage of staff for handling outpatient treatment."
- "With the economy being what it is, paying for sightseeing and eating out after the meetings is not as easy as it used to be."
Needs analysis plays an important role in curriculum development and reform. To gain a better understanding of the English language needs of the students at Tokyo Medical University, we collected information from students using questionnaires and interviews. A total of 239 third and fourth year students responded to a questionnaire on the English for Medical Purposes program in light of their experiences abroad. Both the questionnaire and interview results indicated that students endorsed the intensive medical vocabulary lessons in the first year, but felt that more opportunities should be created for retaining the vocabulary thereafter. The surveys also revealed that students wanted the Japanese clinical courses and the English for Medical Purposes courses to be linked more closely so as to reinforce both courses. The surveys also identified topics which students thought should be taught, in which year they should be taught, and the reasons for their preference. The sixth year interviewees emphasized the need for developing communicative competence as well as the importance of building a working medical vocabulary in English. The surveys provide salient points and suggestions for developing a curriculum for English for Medical Purposes based on student needs.


Keywords
English for medical purposes, English for specific purposes, needs analysis, overseas clinical clerkship

1. はじめに

教育プログラムのカリキュラムを考える際に、カリキュラムの設定者は、どういった学習内容を、いつ（何学年で）どのように教えるのか（教科書）、どのような学習内容を、どのような評価方法をとるのか（評価方法）、といった疑問に対する答えを考えることになる。これまで、教育の目的、学習内容、教科書、教授法、評価方法など、大学側やカリキュラム担当者の経験や直感などから決定されることが多かった。しかしながら、今日の教育では、カリキュラムをデザインする上で、学習者のニーズやインプットの重要性が叫ばれている。医学教育におけるカリキュラム開発・改革を進め重要なステップとして、ニーズ分析が最初のステップとして取り上げられている。

ニーズ分析は、学習者が何を望む、何を必要としているかを明らかにするだけでなく、現状把握を可能にし、今後の課題も明確にすることができる。
東京医科大で医学英語カリキュラムの英語名称をEnglish for Medical Purposes (EMP)としているのは、広義の英語教育の中においてEMPはEnglish for Specific Purposes-Language for Specific Purposes (ESP/LSP)に分類されるからである。1960年代、ESP/LSPという概念が生まれた背景には、カリキュラムを開発する際に学習アウトカムや達成目標を明確にし、社会への説明責任（アカウンタビリティー）を果たすためにニーズ分析が盛んに行われるようになったことがある。2 語学教育の分野では、言語の構造を基に学プログラムを組み立てることがそれまで主流だった。しかしながら、ニーズ分析が行われるようになってからは、学習者が専門分野・職業のコミュニティの一員として活躍できるような実践的な語学力の習得を目的とするESL/PLPプログラムを開発するためには、当分野の言語分析（target situation analysis）とともにニーズ分析をプログラム開発の中心に据える必要があるという考えが広まった。3 Becherer3も述べている通り、ESPについての考え方は多様であるが、当分野の言語分析とニーズ分析の2つはESPに必要不可欠な要素として挙げられる。当初は実際に当分野で使用される英語を分析することに重きが置かれたが、その後学習者の英語力とその分析を比較し、欠如している部分を補う教材・教授法を打ち出すことに力がそそがれた。しかし1980年代以降、そのような言語的ニーズだけではなく、学習項目や学習方法決定の際、学習者の視点（自分をどう見ているか、将来の目標、授業に求めるものは何かなど）を考慮することで、効果的なプログラマ開発や学習者のモチベーション向上に繋がると考えられるようになった。3

また、ESPのニーズ分析は3つの領域に分けて行うこともできる。①コミュニティーのニーズ、②教師や大学のニーズ、③学習者のニーズである。その領域のニーズ分析を行うとき、その目的や調査を行う対象者も変わってくる。まず初めに①コミュニケーションのニーズ調査は、将来学生が踏み込む専門領域の集団のニーズ、つまり医学英語の場合は医師や研究者など、医療関係者から成る集団のニーズを指し、調査対象は主に医師や看護師、メディカルスタッフとなる。次に②教師や大学のニーズ調査は、大学や教員の教育方針などに沿ったニーズを指し、対象者は大学のカリキュラム責任者や教員自身である。最後に③学習者のニーズ調査は学習者が持つニーズを指し、調査対象はプログラムやコースに関わる学生やこれまでも関わった学生や卒業生が対象である。

ニーズ分析は、プログラム開発段階だけではなくプログラム改善の一環として行われ、コースや教材開発、教授法、学習法、評価方法と密接に関係するものである。Dudley-Evans and St Johnは述べており、医学英語教育関連の研究でも様々な手法でニーズ分析が実施されている。
2. 調査概要

2.1. 医学英語IIIとIVの終了時質問紙調査

平成24年度医学英語III（後期のみ、90分授業×9回）を受講した医科3年生と医学英語IV（前期後期、90分授業×17回）を受講した4年生を対象に後期末試験実施直後
に質問紙を配布し、5分ほどの記入時間と設けて、その場で回収した。限られた時間内での有益情報を収集するために質問紙は、2部構成にしてA4用紙1ページにまとめた。質問紙の前半（質問1〜6）では受講した医学英語の評価について、後半（質問7〜11）では5つの項目について理想的導入時期とその理由について聞いた。

2.1.1. 医学英語の評価（有益度・満足度）

質問1〜5については6段階のスケールへの記入を求めた。質問1〜4は「とても有益」、6を「全く有益ではなかった」とし、質問5については1を「とても満足」、6を「全く満足ではありません」とした。

3年生を対象とした質問紙（付録1参照）の前半では医学
英語IIIの以下の授業内容について聞いた:

1) Clinical Concepts（職業別カリキュラムに沿った英語
リーディング・テキスト）
2) Questions for the Clinician（臨床医への質問）
3) Medical Interview（ワークシート）
4) Medical Interview（英語ビデオ教材）
5) 医学英語IIIに対する満足度

4年生を対象とした質問紙の構成は3年生の質問紙と同じであったが、授業評価に関する前半では2年間を含まず
医学英語IIIとIVで行った以下の授業内容について聞いた:

1) Clinical Concepts（職業別カリキュラムに沿った英語
リーディング・テキスト）
2) Questions for the Clinician（臨床医への質問）
3) Selected Readings（論文の緒言を使用した英語リーディング・テキスト）
4) Medical Interview（英語ビデオ教材）
5) 医学英語IIIとIVに対する満足度

2.1.2. 医学英語の評価（自由記述）

質問6は、医学英語についての自由記述とし、3年生には医学英語IIIについて以下の通り聞いた。

6) 1学期間の医学英語を振り返り、授業やカリキュラムに関するコメントや改善点などあれば、ぜひお聞かせください。

4年生については、以下の通り聞いた。

6) 本学目的医学英語を振り返り、授業やカリキュラムに関するコメントや改善点などあれば、ぜひお聞かせください。

2.1.3. 学習項目の導入時期について

質問紙後半（質問7〜11）は3年4年とともに以下の項目について、導入時期と理由について聞いた:

7) 医療面接
8) 研究論文
9) 予防発表
10) 症例報告
11) 医学用語

導入時期は1〜2年次、3〜4年次、5〜6年次、1〜6年通
して、必要なしの5つの選択肢を設けた。理由は自由記述とした。

2.2. 海外臨床実習生を対象とした調査

平成24年度と25年度に海外での臨床実習を受ける学生を対象に実習中の英語使用状況について質問紙に自由記述
欄をもって同大学の医学英語プログラムについての意見も求めた。平成24年度は質問紙を配布し、各自記入後に提出を求めた。25年度は同じ内容の質問紙調査をオンラインで実施した。インタビュー調査は、質問紙の調査結果
に沿って行われた。実習生の要望に応じて単独または同じ
施設で実習を受けた2～3名で実施した。まず最初にインタビューの趣旨を説明し、録音の可否について確認してから同意書にサインを得た後にインタビューを実施した。平成24年度実習生のインタビュー調査は本研究の著者である野田、渡邉の2名で、平成25年度は野田1名で行った。録音した内容は、後に書き起こして質的に分析した。

3. 調査結果

3.1. 医学英語IIIとIV終了時質問紙調査結果

医学英語IIIの試験出席者全員113名および医学英語IVの試験出席者127中126名、合計239名の学生から回答を得た。

3.1.1医学英語の評価（有益度・満足度）の結果

3年生による授業内容の評価結果は図1に示す。医学英語の中心的テキスト1）Clinical Concepts（臨床別カリキュラムに沿った英語リーディング・テキスト）の評価では「とても有益」か「全く有益ではない」の6段階スケールで有益である方の評価を示す1～3の合計が83％で最も高かった。2）Questions for the Clinician（臨床医への質問）の評価では、1～3の合計は63％であった。3）Medical Interview（ワークシート）の評価では、1～3の合計は80％であった。4）Medical Interview（英語ビデオ教材）では、1～3の合計は62％であった。

4年生による授業内容の評価結果は図2に示す。1）Clinical Conceptsでは、1～3の合計が71％と3年生の評価より低かった。2）Questions for the Clinicianでは、1～3の合計が55％と3年生の評価より低かった。3）Selected Readingsでは、1～3の合計が66％であった。4）Medical Interview（英語ビデオ教材）の1～3の合計は62％であった。

全体の満足度を聞いた質問5の結果は図3に示す。3年生では6段階スケールで満足である方の評価を示す1～3の合計が81%で、最も多い回答は3の40%であった。4年生では1～3の合計が66%で、最も多い回答は3の37%であった。4年生では、4～6の満足でない方の回答がいずれも3年生より高く、6の「全く満足ではなかった」も4%あった。

3.1.2. 医学英語の評価（自由記述）の結果

113名中34名（30％）の3年生が自由記述欄に記入した。Medical Interviewに言及するコメントが7つと最も多く、そのうち6つはビデオ教材の開き取りに就く（英語英語に不慣れ、患者と医師の発言が重なるなど）を指摘するものであった。残り1つはmedical interviewを増やしてほしいとの要望であった。

授業の進め方については、「なるべく英語で話そうとする授業が良かったです」と学生自らの英語能力した授業を書くが、教師が英語の使用することについて「授業で英語を学ぶことが多い、何の作業をすれば良いのかよくわからないことがある」と指摘した。授業の進め方については、「授業中、友人が話しかけてくることで授業が進みにくいので、もう少し厳しくして頂いてはいかが」の大要もみられた。

平成23年度より同大学に導入されたeラーニングに関す6つのコメントのうち、3つは教材をeラーニングに載せることが高く評価するものであったが、2つはビデオの不具合を指摘するもので、残り1つは「e-learningをより良くしてください」との要望であった。

臨床授業と連動していることを好意的に評価するコメントが2つあったが、「もう少し臨床の授業とマッチしてい
いのでは？」とより密接なリンクを求める意見もみられた。授業の中に行う、臨床医とQ&AセッションであるQuestions for the Clinicianについても「臨床医の先生への質問でもう少し後で考えられる」と助言する。各教室の授業開始前に考えることになるので、」と臨床授業とのタイミングの改善を望むものがあった。また、この項目について、「（臨床の先生の）日本語での解答が多かったのが少し残念でした」という意見も2つ見られた。その他の要望としては、「単語の小テストがあればよかった」や「希望者の用のUSMLE対策講座などを作ってほしい」などがあった。

126名中50名（40%）の4年生が自由記述欄に記入した。医学英語英IIIとIVの授業全体についての感想が多く見受けられ、そのうち「先生によって授業内容があまりにも違うことが気になりました」と、クラス間のばらつきについてのコメントが最も多かった。また、臨床授業とのより密接なリンクを求める意見があった。授業中、教師による英語のみの使用についてのコメントがあったが、教師の英語について行けなかったとの意見と英語使の在庫を望むものに分けられた。

教材に関する具体的なコメントではClinical Conceptsについての意見が最も多く、テストの方向性のばらつきを指摘するものなど、いずれも教材内容の改善を要望するものであった。

Medical Interviewについての意見はあったが、リスニングの難易度が高すぎるとという意見や医療面の理解の機会を望むものであった。「1年2年上」とかかった英単語を忘れていたので残念」というコメントもあった。スピーキングの充実化を望む意見もあった。

3.1.3 学習項目の導入時期についての結果

質問紙の後半、医学英語に導入すべき項目と時期についての結果は図4と図5に示す。年生4年生ともに英語医療面接の授業は、「3～4年」での導入が最も望ましいと回答した。医療面接については4年生で、「3～4年」とした理由の中にはOSCEを意識したコメントが多かった。「1～2年」とした理由で目立ったのは、医学的知識を必要としないからとの意見が多かった。

英語研究論文の読み解けについては、3年生では「3～4年」と「5～6年」が27%と28%と意見が割れのあるに対して、4年生では「3～4年」が37%と群を抜いて多く、「5～6年」は18%に留まった。医学的知識を要するため、高学年でやった方が良いとの意見が多かった。一方、研究論文を「1～2年」でやるべきだと回答も、3年生では15%、4年生では16%の理由としては、「1～2年次には時間的余裕、英語力があることなどを挙げている。英語での口頭発表については、3年生では「1～2年」が37%と最も多く、「3～4年」が23%と次に多かった。4年生では「1～2年」が31%、「3～4年」が42%と順位が逆転していた。4年生では、「1～2年」とした理由は、時間的に余裕があることや、トピックによっては「1～2年」でやることも可能との意見も見られた。

英語の症例報告については、3年生では「5～6年」に導入するのが理想的と答えた学生が40%と最も多く、次いで多かったのが「3～4年」の28%であった。4年生では順位が逆転して「3～4年」35%が「5～6年」31%を上回った。4年生では、「3～4年」とした理由に、医学的知識が必要だという意見が多く、ポリクリニカルセットで高学年でやった方がよいという意見が見られた。

最後に、英語の医学用語については3年生4年生で「1～2年」でやるべきだという意見が3年生では40%、4年生では47%で、群を抜いて多かった。次に多かったのは、
4. 考察

本調査により、6年間の医学教育の中で、医学英語に関し、学習者はどの学年でどういった内容について学び、学習内容の選択や課題がより明らかになった。いずれの調査からも、医学英単語の学習を早期に、継続的に行うこと望んでいることがわかった。3・4年生の調査では、現実臨床講義と連動していることを評価する一方、単に同時期に同様の科目を英単語で学習するということに留まらず、臨床講義で学んだことを医学英語の授業で活かせるよう授業が求められていることが確認された。例外臨床実習を体験した6年生からは医学英単語習得の重要性に加えて、医師間のコミュニケーションに必要な会話力の強化を求める声が聞かれた。

3年生と4年生の調査結果から、医学英語を充実するための改善点がいくつか明らかになった。教材面ではリーディング教材であるClinical Conceptsに関して、4年生からテストの方向性のぼらつきがあると厳しい指示があり、改良の余地があることを示唆している。このことが4年生の医学英語に対する全体的な満足度を下げに一因と考えられる。学内の臨床医の協力を基に臨床科目に沿って作
成された英語リーディング教材であるが、内容の方向性を
極力抑え、独自の教材を作り続けるのには配慮が必要で
あることが示された。

Questions for the Clinicianの評価が3・4年生ともに低かっ
たことは、反反省すべき点である。低評価の主たる理由は、
臨床の授業の前にその科目について英語の質問を
しなければならず、内容的深い質問が出来なかったとい
うことにある。これは、現在医学英語の授業の中に握
れているClinical Conceptsを臨床講義の日程に合わせてい
るため、予想を要するQuestions for the Clinicianは、
まだ臨床授業で学んでいないことを英語で自習することに
なる場合が多かったことによる。今後、医学英語で扱う科
目は、臨床科目を追うようにする方が学生にとって臨床講
義の内容を医学英語で復習できることにより、より学
習効果が期待できると考えられる。

Medical Interviewについて、3年生では新しく作成し
たワークシートとビデオ教材について別々の質問を設けたと
ころ。ワークシートは1〜3の好意的な評価が80%であっ
たのに対して、ビデオ教材の場合は62%と大きな差があっ
た。使用しているビデオは、実際の診療を英国で録画した
もので、「文書」の模擬診療室経験ができるのが特徴で
あるが、実際の会話だけに、学習者の指導にあるよ
うに言葉は重なり、発音が不明瞭であったに違いない。
また、学習者に覚えて欲しい概念골語を盛り込んでいるわ
けではないので、限られた時間で使用する語学教材として
は不向きな面があることも事実である。そのため、以前か
ら英語が早くで難しくなるなど、否定的な意見が多かった
。その対策として新しくワークシートを作成し、医療面
接の際に重要なコミュニケーションの要素などを盛り込ん
d。今回の調査結果ではそのワークシートが高く評価され
、Medical Interview全体を評価する書き込みも見られ
た。今後は、現在リスニングの練習に留まっているの
を、学生から要望の多かったスピーキング練習としてロ
ールプレイングなどを取り入れて共学化を図るなどの可能
性を考慮することが求められている。

クラス運営の面で反省点が浮かび上がった。少人数教
育を実施するために、レッスン・プランを用いて6つのク
ラスの授業の統一を図ってきたが、学生のコメントからは
クラス間で授業の進め方にかなり差があり、それが不公不
感に繋がっていることが明らかになった。この点について
は、各レッスンの目標やアウトカムを明確化し、教員間で
共有することが重要である。

質問紙の後半は、医学英語に取り入れる5つの項目に
ついて聞いた。単に必要かどうかを問うのではなく、いつ必
要かを問うことでカリキュラム開発にとって有益な情報を
得られるとの指摘が得られることが考慮し、導入時期を選
択する形を示したものであり、学生があいまいのように取り
組んでいきたいのが明確になった。最も顕著だった意見は、

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<tr>
<th>表1 海外臨床実習生を対象としたインタビューからの抜粋</th>
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<tr>
<th>項目</th>
<th>実習中の英語使用についての感想</th>
<th>医学英語に対する要望・提案</th>
</tr>
</thead>
<tbody>
<tr>
<td>医学英語単語</td>
<td>• 医学用語はやっぱり言い換えがきかないので重要。</td>
<td>• 1年から6年まで継続的に医学英語単語のテストを実施。</td>
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<tr>
<td></td>
<td>• 性でうまく使う方法、相談についての単語が必要。</td>
<td>• 3・4年の臨床科目のテストに、英単語テストも組み込む</td>
</tr>
<tr>
<td></td>
<td>• 疾患名よりも、病院で使われる実践的表現が不十分と感じた。例えば、feverは知っていてもintermittent feverが出て</td>
<td>• 学んだ知識を活かせるような場所とか、彼が定期的な試</td>
</tr>
<tr>
<td></td>
<td>こなかった。</td>
<td>験があったら一番喜む</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 書きでも発音が分からないこともあったので、発音練習</td>
</tr>
<tr>
<td>症例報告</td>
<td>• 一番事前にもっと知りたかったのは症例発表やカルテの読め方。</td>
<td>現在医学英語ではやっていますが、3・4年でも臨床問題</td>
</tr>
<tr>
<td></td>
<td>• 海外実習では、症状などについて話す時の表現が足り</td>
<td>は解けるので3・4年でもできると思う</td>
</tr>
<tr>
<td></td>
<td>なかった。「なんでそれ出されて、どの程度出るのかも</td>
<td></td>
</tr>
<tr>
<td></td>
<td>な表現を学習する必要がある。</td>
<td>目標別に意味別にクラスを分けるのがいい。例えば医学</td>
</tr>
<tr>
<td></td>
<td></td>
<td>英語単語や医学英語で学ぶための少数人数セミナーに月に1回</td>
</tr>
<tr>
<td></td>
<td></td>
<td>でいきたいので開</td>
</tr>
<tr>
<td></td>
<td></td>
<td>形を読んだ後にグループで要点をまとめて発表する</td>
</tr>
<tr>
<td>コミュニケーション能力</td>
<td>簡単な表現の他が通じることも。例えばobserveよりCan I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>see the operation。</td>
<td>4年の医学英語でプレゼンを行う機会があったのはよかった</td>
</tr>
<tr>
<td></td>
<td></td>
<td>たのでもっと多く出ると言</td>
</tr>
<tr>
<td></td>
<td>• 最初の2週間は自分の発音のためか、言ったことがなか</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>グループ内でプレゼンも、一人一人の精神的な負担が軽</td>
</tr>
<tr>
<td></td>
<td></td>
<td>くない場合もある</td>
</tr>
<tr>
<td></td>
<td>• 最も重要のはコミュニケーション能力。院内、日常生</td>
<td></td>
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<td></td>
<td></td>
<td>活上の問題解決を含めて自分で行うの。</td>
</tr>
<tr>
<td></td>
<td>• アジアの人が英語は慣れないかったので、苦労し</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>た。</td>
</tr>
<tr>
<td></td>
<td>• 積極的に発言することを求められた。</td>
<td></td>
</tr>
<tr>
<td>論文</td>
<td>• 症例発表の準備のため、最新の知識を仕入れるために</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PubMedで検索して調べた。</td>
<td>• 英語論文に接する機会がポリシーの前にあるという</td>
</tr>
<tr>
<td></td>
<td>• 論文の文体はむずかしくない。</td>
<td>• 医学英語では、将来全員が必要になる論文解読や英語</td>
</tr>
<tr>
<td></td>
<td></td>
<td>解に重点をおく</td>
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<tr>
<td>その他</td>
<td>• 高学年からの海外臨床有機の存在を知っていたら</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>USMLE対策セミナーがあれば</td>
</tr>
<tr>
<td></td>
<td>• TOEFLやTOEIC、英検を活用。</td>
<td></td>
</tr>
</tbody>
</table>

Vol.13 No. 3 October 2014 Journal of Medical English Education 71
医学英単語の学習を早期に始め、継続的に行うことが重要との意見であった。実習生から同様の意見があっ
た。1年次の集中的な医学英単語学習は評価されているよ
うだが、それ以降も継続することは望む声が多かったこと
は、3〜4年次の学習で1年次に習得した語彙を使用する機
会がないことを反映している。3〜4年次の
授業の中で医学英単語学習を取り入れることももちろ
んだが、学習者のニーズに応じて自主的に学習できるような
eラーニング教材を開発することも検討する価値があると
考えられる。単語演習などは特にeラーニング教材に向
いているといわれる。

医療面接については、ある程度臨床知識を習得してから
3〜4年に希望する学生が「1〜2年」に希望する学生を
上回った。4年生がこれまでの4年間を振り返ると、英語医
療面接は「3〜4年」に実施する方が良いという理由には
医学的知識の得てからの学生の効果の高さが理由であるとい
った。「1〜2年」希望する理由には時間の余裕を得ることができる
学習が重かった。コミュニケーションと日常の英語表現習得
を目的とする授業として1〜2年間に効果的に取り入れる
ことも可能である。さらに、3〜4年次での日本語の医
療面接試験であるOSCEと連動した形で取り入れていく可
能性も考えられる。

研究論文については3年生では「3〜4年」で導入すべき
という意見が「5〜6年」とほぼ同じだったのに対して4
年生では「3〜4年」での導入を希望するものが圧倒的に多
かったことは、医学英語で既に研究論文の授業体験をして
いる4年生が「3〜4年」でもできるという実感があった
からと思われる。限られた時間で、読む論文の本数を増やす
ことは難しいが、実習生からの提案にありそうに研究
論文の要約など内容をまとめて授業中に発表させるなどの
工夫することにより英語論文読解能力の向上を図ることは
可能である。

口頭発表の重要性を訴えるコメントは、3・4年生同様、
実習生にもみられたことを考えると、スライドの作成方法
や発表時の英語表現などのスキルを磨くことができるよう
なトレーニングの機会を設けることが求められる。4年
生の後期に学生全員が5分程度の発表を各1回行う機会を設
けているが、今後は医療面接や研究論文の授業にモニタ
プレゼンテーションなどを盛り込み、学生に発表する機会を
より多く設けることが重要である。

症例報告については、医師6年の学生が「5〜6年」での
入が望ましいと回答しているのに対して、4年生ではわず
かではあるが「3〜4年」が「5〜6年」を上回っていた。
少なくとも3を4年の学生の3分の1は症例報告を取り入れた授業
を「3〜4年」で実施することが望ましいと考えていること
がわかり、実習生からも症例報告で使用される英語表現
を医学英語で学びたかったとの意見もあった。

海外での臨床実習を受けた6年生は、学習者であると同
時にメディカル・コミュニケーションの一員として海外臨床実
習に参加しており、その体験を基に同大学で受けた医学英
語について様々な要望や提案があった。これら実習生は、
モチベーションの高い学生であり、彼らの意見をそのまま
学生全員に当てはめて考えることは出来ない。しかし臨床
現場で英語を使用した彼らの体験を参考に授業内容を考え
ることは有義である。海外臨床実習で必要な英語を医学
英語で教えることで、近将来体験するかもしれない医療
現場に備えているという意識が学習効果にも繋がると考え
られる。教えるべき項目については派生先施設や科目によ
って体験が異なるため多様であったが、症例発表や医学的
内容のディスカッションなど医学部門の対話に必要な表現力
をつけることを重要視する意見が多くあった。しかし同時
に、一般的会話を養うことの重要性を訴える声が聞かれ
た。これは、JenkinsiiとHouseの報告にもある通り、特
に双方にとって英語が外国語での発音を表現に慣れていない
場合、コミュニケーションを円滑にするには、わかり
なかったときに丁寧に聞き返すことが大切であるという
ことを学ぶことが必要であると考えられる。いずれも英語圏
への施設で研修を受けているため、英語話者の患者と接す
機会が少なく、英語面接授業を学ぶ必要性を訴える声は
なかったが、今後医師の実施がなかった場合、患者
とのコミュニケーションに必要な英語力も重要視されるで
ある。

英語力別やニーズ・興味別にクラス分けや発表や症例発
表などに特化したセミナーを望む声が示されたが、これは
無作為に振り分けられたクラスでは英語力や学力にばら
つきがあり授業に悪影響を及ぼすことが考えられ、推奨される。
どのクラス分けやモチベーションが高い
学生、低い学生のいずれにも高い学習効果があるとの報
告をもあわせてと考えるとクラス編成については注意深く
検討することが重要であると考えられる。

さらに、海外臨床実習制度を1年生から積極的に紹介す
ることがが英語学習意欲向上になるとの声が聞かれた。国
際医学情報学講座では、同大学臨床医ならびに海外臨
習生のビデオメッセージを収録し、医学英語IIIのオリエ
ンテーションで使用することとしてきたが、今後様々な手法
で実習生の体験談などを紹介するのも医学英語学習の動機
づけになると考えられる。学習者にとってより身近なロー
ル・モデルの存在は、モチベーション向上に効果的であり、
特にこれから同大学が海外選抜臨床実習を推進していく上
で重要だと考えられる。また、将来の職場（同大学学生の
場所は医療現場）での実践的な英語コミュニケーション力
の習得度を評価することが患者のモチベーション向上に繋
がると指摘されている。今後コミュニケーション力の伸
長を目的とする授業を行う場合は、公平かつ効果的な評価
方法を考察する必要がある。
5. まとめ

いずれの調査結果も、1・2年次に習得した医学英単語を3・4年次で使う機会を増やすことが肝要であることを示していた。学生全員が将来必要とする研究論文読解力とともに、将来留学や学会発表をする際にも力を発揮できるようにコミュニケーション能力の強化を図ることも重要である。限られた時間でこれらを網羅することはむずかしいため、少人数クラスを活用して、医療面接や症例報告、論文の授業にもスピーキングの練習を取り入れるなどの工夫が必要であろう。その際、臨床医のインプットをより効果的に活かせる授業を目指すことで学生が自らの将来像を思い描けるようにでき、より充実したカリキュラムの実現が望まれる。さらに、現在、医学英語の試験は、主に英文読解力と聴解力を評価するに留まっているが、今後、実践的な英会話・コミュニケーション能力の習熟度を評価していくことにより学生のモチベーションの向上にも繋がると考えられる。

本報告では、学生のニーズに焦点を絞ったが、今後は様々な職場で活躍している卒業生などの現状調査を通じて、学生が将来必要とする医療現場におけるコミュニケーションのニーズに応え得る医学英語教育プログラムを開発することを望ましい。また、現在多くの大学が世界医学教育連盟策定のグローバルスタンダードに準拠したカリキュラム改編を行っている。2012年に医学教育学会により発表された日本版医学教育の基準でも「教員と学生からのフィードバックを積極的に行える」ことが教育の質向上に繋がると示されている。

2014年には医学英語教育学会でも「医学教育のグローバルスタンダードに対する小規模 Adjustable-GU」の中間報告が示されている。これらのスタンダードやガイドラインは教員や大学のニーズだけではなくコミュニティのニーズも反映して提案されている。教育目標を明確に打ち出し、それを達成し易いものからその都度評価していくことで、カリキュラムが評価される今、グローバル化推進の視点でのアクションリビュを考える上でも、ニーズ分析で得られる結果を活用した、より包括的な医学英語プログラムの開発が各大学で求められている。

謝辞

本調査に協力してくれた学生の皆様ならびに医学英語IIIとIVの講師の皆様から、常時貴重なフィードバックをくださったJ. P. パン先生、R. ブルヘルマンス先生、E. パロガ先生、阿部幸先生、高橋和子先生、森田直美先生に感謝致します。本稿を査読し質重なるご意見を寄せいただいた匿名の査読者の方々ならびに編集委員の平尾恒先生に篤く御礼を申し上げます。

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Overcoming challenges in a basic history taking course for first-year students at Nihon University School of Medicine

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1. The problems we faced
At Nihon University School of Medicine, students begin their medical interview English education in their first year in an English oral communications course. Our challenge was to enable our first-year students to acquire the communication and interpersonal skills needed to be able to conduct basic medical history taking. A major problem was getting students to move beyond the rote memorising of patient-directed questions towards effective information gathering and rapport building to lay the foundations for developing clinical reasoning skills in the future.

2. What we tried
To address the challenge, we developed a mandatory 45-hour medical English conversation course. Students are divided into two groups according to student numbers, and the lessons are held during the first and second periods and last for 90 minutes each. The course content is based on a collection of videos of authentic doctor-patient interviews called "English for Medical Purposes" that is available as a free online resource from Tokyo Medical University (www.emp-tmu.net). First-year students have very limited medical training; therefore, the course focuses on communication, interpersonal skills, and rapport building. A major part of the assessment is a final examination interview consisting of a role-play between the student as the doctor and the instructor as the patient. We identified our assessment criteria in a detailed rubric that includes points for each appropriate question asked, as well as other components including controlling the conversation, non-verbal communication (including eye contact), and appropriate gestures (refer to Appendix 1).

3. What we learned
This full-year course first started in the spring of 1999, and over the past 6 years the course has been progressively modified and refined to address various shortcomings. After 2 years, a number of issues emerged as a result of an analysis of video recordings of students playing the role of doctor in a doctor-patient role-play interview examination. Simply teaching Japanese medical students the key questions used during a medical interview and having them practise role-plays using those questions is insufficient, because students tend to focus only on producing the questions correctly. Video analysis showed that they often disregarded the appropriateness of the questions, neglected reasoning when asking questions, and did not sufficiently comprehend or appropriately respond to their patients. These problems were particularly conspicuous when video footage of those first-year students’ final interview examinations was reviewed, showing that students at that time (winter 2010) had very limited active listening abilities.

4. What we changed
Starting the next school year (April 2010), we responded by adding more robust and specific instruction to our first-year classes, emphasising how to overcome communication difficulties quickly. We introduced what we call the "3-second rule". The rule is that when engaged in a conversation,
a pause of 3 seconds or more is not permitted. Students were taught how to effectively use a variety of phrases such as "Please speak more slowly" , "Could you use simpler English please?" and "Pardon me" to empower them to resolve difficulties in less than 3 seconds. Video evidence of student performances of this group during the final examination interview revealed many more instances of effective active listening and 3-second rule usage as compared with the previous year’s student video performances. We surmise this was a direct result of introducing the 3-second rule. This marked a positive change contributing to improved communicative competence among our students; however, the issue of students not seeming to understand enough of what the patient was saying remained.

Building on the previous year’s success, we added a comprehension component with multiple content questions on the final interview examination for 2012 to attempt to address listening comprehension issues. During the course, we reinforced a renewed emphasis on the importance of gathering the correct information from patients by confirming details and using the 3-second rule. We also made it clear to students periodically through the year that a new comprehension component would be added to the evaluation for the first time. This listening comprehension component (see section VI in Appendix 1) required students to answer questions about the content of the interview after the interview was finished.

5. The effect of the changes

Video examination results showed improvements in listening, questioning, information gathering, and confirming details. The assessment, which included a performance-based role-play and a post-interview comprehension component, improved overall student performance dramatically. Video footage of the interviews showed an obvious increase in proficiency compared with the previous year’s students. In line with well-established best practices of language testing and communicative competence education, the interview examination attempted to reproduce the real-life language usage situation as closely as possible while considering the relevant aspects of communicative competence (1–3). As such, the added dimension of a comprehension component at the end of the interview ultimately served as an effective means to make the interview more realistic by providing a consequence for not understanding what the patient said during the interview. In other words, students were compelled to listen carefully, to engage their active listening skills, and apply strategies like the 3-second rule, because they knew they were going to be required to answer questions about the patient interview immediately afterwards. This proved to be a very effective strategy in terms of examination modification to improve student performance. No longer were students able to simply repeat the questions they memorized and ignore all the patient responses—they had to listen and think about appropriate subsequent questions. They also had to use whatever means possible to understand the patient in order to be able to answer the post-interview comprehension questions.

6. Conclusion

A medical English course for first-year students using authentic materials and performance-based assessment can be a key building block for future clinical reasoning skills training. The factors which led to improved performance were the 3-second rule and the inclusion of a post-interview comprehension assessment component. We are currently implementing other assessment strategies, including extensive use of the popular Learning Management System Moodle, and are planning an impact report in the future.

References

Appendix 1

### Interview Skills Evaluation (Medical History Taking)

<table>
<thead>
<tr>
<th>I</th>
<th>II</th>
<th>III</th>
<th>IV</th>
<th>V</th>
<th>VI</th>
<th>TOTAL (30 points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Questions (up to 12 pts)</td>
<td>Non-Verbal Communication (up to 3 pts)</td>
<td>Controlling the Conversation (up to 3 pts)</td>
<td>English Usage (Start with 3 pts)</td>
<td>Pronunciation (Start with 3 pts)</td>
<td>Understanding Content (up to 6 pts)</td>
<td></td>
</tr>
<tr>
<td>(ICSE) 0 pts: Student asked no appropriate or relevant questions 2-12 pts: 2 pts for each appropriate and relevant question (maximum 12 pts for this section)</td>
<td>0 pts: Student made no eye contact and/or OFTEN used inappropriate body language 1 pt: Student made very little eye contact and/or SOMETIMES used inappropriate body language 2 pts: Student made acceptable eye contact and/or used inappropriate body language only once 3 pts: Student made excellent eye contact eye contact and NEVER used inappropriate body language</td>
<td>0 pts: Student paused inappropriately for more than 2 seconds once or twice and/or showed NO evidence of understanding content or caring about the patient 1 pt: Student paused inappropriately for more than 2 seconds once or twice and/or made LITTLE attempt to show understanding/caring 2 pts: Student controlled the conversation by attempting to ask for clarification and/or repetition when needed with no long pauses 3 pts: Student confidently and politely interrupted the patient when necessary and controlled the conversation competently and smoothly with no long pauses and/or used active listening cues to effectively show understanding/caring</td>
<td>-1 pt for every instance of language usage that would likely interfere with a patient’s ability to understand</td>
<td>-1 pt for every instance of pronunciation that would likely interfere with a patient’s ability to understand</td>
<td>0 pts: Student failed to correctly answer all 3 post-interview content questions and/or failed to identify the chief concern 2-6 pts: Student correctly answered 1, 2 or 3 post-interview content questions (2 pts for each correct answer)</td>
<td></td>
</tr>
<tr>
<td>Name:</td>
<td>ID:</td>
<td></td>
<td></td>
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</tbody>
</table>

Note that (ICSE), (CS), and (SEP) refer to Integrated Clinical Encounters, Communication Skills, and Spoken English Proficiency, respectively, as described in the USMLE Step 2 Clinical Skills Scoring [http://www.usmle.org/pdfs/step-2-cs/cs-info-manual.pdf] pages 11-12.

1. Introduction

Hamamatsu University School of Medicine (HUSM) is a national university of medicine in Shizuoka Prefecture that was founded in 1974. There are two undergraduate major areas of study: medicine and nursing. The English teachers at HUSM are members of the Department of Integrated Human Sciences and are responsible for teaching English to both the medical and nursing students.

2. Hamamatsu University School of Medicine English Teaching Faculty

There are three full-time English teachers at HUSM: Professor Minako Nakayasu, Associate Professor Christine Kuramoto, and Foreign Language Instructor Gregory O’Dowd. In addition, there are 4 part-time teachers, who teach 1 or 2 classes per week. The following introduces and explains our current English curriculum.

3. Hamamatsu University School of Medicine English Program

3.1. Objectives

Our English courses focus on improving students’ listening, speaking, reading, and writing skills through the integration of individual faculty members’ strengths and interests. Our English professor is currently working on a grant project in linguistics; the Associate professor is working on grant projects in active learning, service-learning, and two grants for simulated-patient education; and our full-time lecturer is working on a grant for problem-based learning research. Our English courses are flexible enough to encourage students to develop a diverse array of interests necessary for professional and personal success. In order to further enhance students’ motivation in learning English, we also provide the ALC NetAcademy e-learning program to encourage interactive, self-directed learning outside of the classroom.
3.2. Required Courses

Medical Students

**English IA:** 1st-year students, 4 groups of approximately 30 students each, 90 minutes x 30 lessons/year. Two full-time instructors teach 2 groups first semester for 15 weeks, and then switch groups for the following 15 weeks in the second semester.

**English IB:** 1st-year students, 4 groups of approximately 30 students each, 90 minutes x 30 lessons/year. Two instructors (one full-time, one part-time) teach 2 groups first semester for 15 weeks, and then switch groups for the following 15 weeks in the second semester.

**English Conversation I:** 1st-year students, 2 groups of approximately 60 students each, 90 minutes x 15 lessons/semester. One full-time instructor teaches both groups in the first semester.

**English Conversation II:** 2nd-year students, 2 groups of approximately 60 students each, 90 minutes x 15 lessons/semester. One full-time instructor teaches both groups in the first semester.

**English II:** 2nd-year students, 3 groups of approximately 40 students each, 90 minutes x 30 lessons/year. One full-time instructor and 2 part-time instructors teach the 3 groups for 15 classes then change groups for the next 15 classes.

Nursing Students

**English I:** 1st-year students, 2 groups of approximately 30 students each, 90 minutes x 15 lessons/semester. One full-time instructor teaches both groups in the first semester.

**English II:** 1st-year students, 2 groups of approximately 30 students each, 90 minutes x 15 lessons/semester. One full-time instructor teaches both groups in the second semester.

**English III:** 2nd-year students, 2 groups of approximately 30 students each, 90 minutes x 15 lessons/semester. One part-time instructor teaches both groups in the first semester.

**English IV:** 3rd-year students, 2 groups of approximately 35 students each, including 10 transfer students who entered as medical students in the first semester of the 2nd year, 90 minutes x 15 lessons/semester. Two full-time instructors teach one group each and switch halfway through the semester.

3.2.1 Electives

Medical Students

**English Conversation III:** 3rd-year students, one small class (fewer than 10, numbers vary), 90 minutes x 30 lessons/year. One full-time instructor teaches the class.

**English III:** 4th-year students, one small class (fewer than 10, numbers vary), 90 minutes x 15 lessons/semester. One full-time instructor teaches the class in the first semester.

Nursing Students

**English Conversation:** 1st-year students plus 3rd- or 4th-year transfer students who entered as nursing majors from other universities in the 3rd year, so are eligible to take this 1st-year class if they did not take an equivalent class at their previous institution, one small class (num-
bers vary), 90 minutes x 15 lessons/semester. One full-time instructor teaches the class in the first semester.

Medical and Nursing Students

**International Service-Learning (photos A and B):** 1st- to 4th-year medical and 1st- and 2nd-year nursing students are eligible for this course. The Associate Professor gives orientation lectures and leads the team of students who are taking the course along with other members joining the team from around Japan to Nicaragua every March to work in rural clinics with a USA-based NPO. The credit for this class is applied to the following school year.

### 3.3. Evaluation

Grading criteria are determined by the teacher in charge. In addition to individual instructor evaluation criteria, all 1st-year students are required to complete 4 hours of e-learning per semester outside of class time in order to pass English 1A (medical) or English 1 (nursing).

### 3.4. Content

Although our course titles have remained generic, having been passed down from a previous generation, most of the English courses at HUSM are now focused on medicine and nursing, with the exception of the English 2 classes taught by part-time instructors.

In the first year, medical students have early exposure to Medical English through the use of Tokyo Medical University’s EMP systems-based materials. In addition, 1st-year students cover the basics of medical interviews and get the opportunity to do medical interviews in English with English-speaking simulated patients (photo C). In 2nd-year English Conversation 2 class, lessons are focused on doctor/patient communication.

HUSM classes that require textbooks are currently using the following titles.

#### Medical Students


*Bite steps to writing research papers*, David E. Kluge, M.A. Taylor, Cengage Learning, 2007.


#### Nursing Students

*Reading fusion 1*, A.E. Bennett, Nan’un-do, 2011.


### 4. Other Activities

HUSM offers many opportunities for students to use their English skills outside of the classroom. In addition to the International Service-Learning course listed above, there are several international clerkships available to upperclassmen. In 2014, HUSM students participated in clerkships in Poland, Germany, the USA, and the UK. There are also clerkships available in China, Korea, and Turkey. All clerkships require a high level of English proficiency and are motivating students to continue to improve their English.

### 5. The Future

HUSM is now making a new curriculum which will be implemented at the beginning of the 2016 academic year. The English courses will also be undergoing some major revisions. As in other medical schools in Japan which are working toward global accreditation, there is a gap
between the number of hours available for teaching and the desired curriculum which would include English throughout the entire education of our medical students. In addition, even if we could schedule English courses throughout the six-year curriculum, there are currently not enough English faculty members at HUSM to take on these classes. We hope to continue to learn from our colleagues at JASME as we work to improve the medical English education we are providing to our students.

Christine Kuramoto and Minako Nakayasu

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日本医学英語教育学会
医学教育のグローバルスタンダードに対応するための
医学英語教育ガイドライン（案）

日本医学英語教育学会 ガイドライン委員会
福沼幸孝, 1 一杉正仁 , 2 石井誠一 , 3 亀岡淳一 , 4 建部一夫 , 5 高田 淳 , 6 服部しのぶ , 7
鯨川慎一, 7 森 茂 , 8 守屋利佳, 9 Raoul Breugelmans , 10 吉岡 俊正 11
1 愛知医科大学医学部医学教育センター, 2 副委員長・滋賀医科大学社会医学講座,
3 東北大学大学院医学系研究科医学教育推進センター, 4 東京大学医学部医学教育研究室, 5 高知大学医学部医学教育創造・推進室,
6 坂田保健衛生大学医学部臨床工学科, 7 富山大学大学院医学系研究科医学教育学, 8 大分大学医学部応用言語学 (英語),
9 北里大学医学部医学教育研究開発センター, 10 東京医科大学医学教育学講座, 11 東京女子医科大学

從来より、日本の医学教育は世界基準からほど遠く、 "ガラパゴス化しているといわれてきたが、2010年以降、漸く "黒船襲来"的な新しい潮流が到来した。これこそが所謂「2023年問題」であり、世界医学教育連盟(WFME)のグローバルスタンダード評価基準に準拠した医学教育を受けている医科大学/医学部の卒業生以外には、米国医師国家試験
(USMLE)の受験資格を認めない方針をECFMG(Educational Commission for Foreign Medical Graduates)が宣言したのである
この新しい流れの中で、日本の医学英語教育もグローバル化の潮流にフレキシブルに対応すべく、変わらざるを得ない
状況に直面している。WFME評価基準項目内には、内容的に医学英語教育との密接な関連項目が多く含まれており、
各医科大学/医学部においても早急に自己点検・評価を実施し、各々独自性を有している医学英語教育手法がそれに対応しているか否かをチェックし、質の改善・改革を図る必要性がある。
以上の背景を鑑み、本学会としても医学教育のグローバルスタンダードに対応するための医学英語教育のガイドライン
を作成・提案すべきではないかとの気運が理事会から高まり、ガイドラインワーキンググループ (WG)が2013年9月
に組織された次第である（2014年7月に委員会に改組）。
本ガイドラインは（1）Vocabulary,（2）Reading,（3）Writing,（4）Communicationの4部門から成り、各々の部門の到
達目標を1. Minimum requirement, 2. Advanced requirementの各々2つに分類している。
第17回学術集会においてWGの各部門の代表者（責任者）から中間報告が行われ、参加者との意見交換を経て、今後、
広く意見を公募することとした。本案についてのご意見を2014年11月30日(日)まで受け付けるので、下記の学会事
務局までお送りいただくことである。

●日本医学英語教育学会事務局
〒162-0845 東京都新宿区市谷本村町2-30 メジカルビュー社内
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前文

近年、社会においてはグローバル化が求められているが、それには医学・医療の領域でも例外ではない。現状の教育では、教員は医学用語を日本語だけで指導しかており、また学生は英語版の教科書を見ることも少なく学習することが少ない。その結果として、我が国は他国に比べ、TOEFL-iBTやIELTSの成績が低いという現状を示している。すなわち、医学英語の運用能力にも支障をきたすことになる。
医学に関する英語は多くの医科大学・医学部等で教育されているが、その教育内容や到達度の目標設定は統一されていない。したがって、十分な教育を受けていない人は、
医療現場や医学研究の現場で、十分に医学英語を活用できないことがある。そこで、日本医学英語教育学会（JAS-MED）では、英語が母語ではない日本の医学生の、医学・医療の現場における、読み・書き・聴き・話すという医学英語能力の向上を目標に、日本における医学英語教育のガイドラインを提案する。

本ガイドラインの作成にあたっては、2013年に日本医学教育学会から提示された「医学教育分野別評価基準日本版（世界医学教育連盟（WFME）グローバルスタンダード2012年版準拠）」を参考にし、医学教育の国際的基準に合致するためには、必要に英語運用能力の習得を主眼とした。

この基準を参考に、本ガイドラインでは「英語で教科書・論文を読む、理解できる」「患者に英語で直接診察できる」「学会等において英語で発表討論できる」ということを到達目標とする。その目標達成のためには、医学生は医書を読む。さらに学習を増進するため、医療の世界において英語を活用することが望ましいと考えている。

本ガイドラインにより、医学英語教育が発展し、わが国の医学・医療が国際的に評価されることを願ってやまない。

2014年7月

日本医学英語教育学会

ガイドライン委員会

委員一同

【本ガイドラインの構成】

本ガイドラインにおいては、英語運用能力を下記の4項目に分類している。

1) Vocabulary

2) Reading

3) Writing

4) Communication

学習の到達目標として、医学部卒業時に全員が習得すべき内容をMinimum requirement、全員が習得する必要はないが、さらなる能力向上のために習得が望ましい内容をAdvanced requirementと定義した。そして前記の4运用能力それぞれに対して、学習目標を大別して具体的に示した。

【本ガイドラインと医学教育分野別評価基準との対応】

医学教育分野別評価基準は、直接的に医学英語教育に関わるものではないが、その内容として医学英語の運用能力が求められるものが多くない。具体的には下記の各項目が挙げられる。本ガイドラインでは、これらの目標に到達するために必要な能力の習得を目安としている。

注  AUTOFITコピeringに関する報告はhttps://www.ets.org/で参照可能

IELTSスコアに関する報告はhttp://www.ielts.org/で参照可能

<table>
<thead>
<tr>
<th>医学教育分野別評価基準の収載項目</th>
<th>必要となる医学英語運用能力</th>
</tr>
</thead>
<tbody>
<tr>
<td>医学的教育（9.1.1）: 医学的教育の実践活動（臨床医学教育（continued medical education；CME））、臨床教育活動を通じて、医学と医学に関連する知識や技術の更新が満たされる職務を果たす。</td>
<td>医学知識の更新の必要</td>
</tr>
</tbody>
</table>
Guideline proposal

(1) Vocabulary

1. Minimum requirement
- 身体の部位と機能、医療・健康に関する基本的な専門用語を理解し、使いることができる。
- 医療英単語を使い、必要な情報を英語テキストやweb上で検索できる。

【具体的な目的】
(基本的な英単語（一般用語と専門用語編）)
- 身体の部位と機能、「症状」、「受診」、「診療」、「診療行為」、「診療器具」、「診断」に関する基本的な専門用語を理解し、使いることができる。
注: 基本的な専門用語：医師国家試験出題基準に記載されている医学用語に相当する英語表現。

(2) Reading

1. Minimum requirement
- 医療・健康に必要な基本的な医学英語が理解できる。
- 医療・医療の研究に必要な医学英語を理解できる。

【具体的な目的】
(診療)
- 基本的な身体機能及び疾患の英語表現を理解できる。
- 基本的な疾患、症状、診療行為の英語表現を理解できる。
- 基本的な診療所見、診療行為、診療器具の英語表現を理解できる。
- 基本疾患（モデル・コン・カリキュラムに収載されている）について英語の資料を読み、内容を理解できる。

(研究)
- 英語の文献検索を行い、目的とする英語論文のabstractを読んで理解できる。
- 医学英語論文の基本的な構造を理解できる（abstract, introduction, methods, results, discussion, references）。

2. Advanced requirement
- 医療・健康に必要な医学英語を十分に理解できる。
- 医療・医療の研究に必要な医学英語資料を十分に理解できる。

【具体的な目的】
(医学・健康)
- 患者の症状や病態をもとに、英語の資料を利用して問題点を解決できる。

(研究)
- 英文の症例報告の内容がおおむね理解できる。
- 最新の医学的知識を英語で理解できる。すなわち、診療や研究に関する英語資料の内容がおおむね理解できる。

(医学英語表現)
- 医療・健康に必要な医学英語を十分に理解できる。

(医学英語表現)
- 医療・健康に必要な医学英語を十分に理解できる。

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(3) Writing

1. Minimum requirement
・テクニカル・ライティングができる。
・医学・医療関連のフォーマルなコミュニケーション英文が書ける。
・医学・医療の英文abstractを書ける。

[具体的な目安]
(テクニカル・ライティング)
・テクニカル・ライティングの存在を知っている。
・伝えた内容を的確にまとめることができる技術(レトリック)である点
・文法・語彙が正しいだけで十分である点
・日本語でのライティングにも共通の技術である点
・パラグラフ・ライティングができる。
・パラグラフに一つだけ論点／主張を置く、その論点を述べる文をtopic sentenceといい、通常パラグラフの冒頭(または最後)に置く。残りの部分は、その論点を補強・拡充するための論証や例示にあてる。
・一貫性(coherence)の保たれた文章を書ける。
・文単位で
・パラグラフ単位で
・明確(clear)かつ簡潔(concise)な文章を書ける。
・自改稿(self-editing)ができる。

(一般的なコミュニケーション英文)
・基本的な文法(punctuationを含む)を知っている。
・基本的な語彙(医学用語を含む)を知っている。
・応用的な文法・語彙を調べている。
・辞書・参考書・インターネット(Googleフレーズ検索・ウイルドカード検索・コーパス等)等を用いて検索できる。
・インタフェース英文(e-mail, etc.)を書ける。

(医学英語論文、およびそれに準じたレポート)
・医学論文に必要な要素を理解している。
・新規性(novelty)と重要性(significance)の2大要素。
・他の論文を参考にして良いが、倫理的に問題(偽装plagiarism、捏造fabricationなど)がないこと。
・英文abstractを自分で書ける。
・モデルとなりうる英文abstractを検索できる。
・英文abstractの構造(introduction, body, conclusion)に従って書ける。

2. Advanced requirement
・医学・医療関連のフォーマルなコミュニケーション英文が書ける。
・医学・医療の英語論文を書ける。

[具体的な目安]
(医学・医療を含む一般的コミュニケーション英文)
・各種フォーマル文書(curriculum vitae, cover letter, reference letter, etc.)のフォーマットを検索して、それに基づいた文書を書ける。

(医学・医療の英語論文(およびそれに準じたレポート))
・英語論文を指導のもとに書ける。
・モデルとなりうる英語論文を検索できる。
・英語論文の構造(introduction, methods, results, discussion, references)に従って書ける。

(4) Communication

1. Minimum requirement
・英語で患者さんを案内することや良好な関係を築くことができ、基本的な医療面接を行える。
・英語で医学・医療の研究成果の簡単な発表と質疑応答ができる。

注 Minimum requirementは「国内における外国人患者さんへの対応」を前提とする。

[具体的な目安]
(診療)
・聴解力
・一般的な身体表現、症状を聴き取り、理解できる。
・専門用語を使用した医療従事者間の会話を聴き取り、理解できる。
・発話力
・初診患者さんの受付や院内誘導などの案内ができる。
・針押・患者確認、ならびに基本的な医療面接を行える。
・患者さんの診察上必要な説明(体位の変換、指示など)を行える。

(研究)
・聴解力
・(英語を母語としない人たちを対象とした)国際学会発表などのプレゼンテーションの内容をおおむね理解できる。
・(英語を母語としない人たちを対象とした)グループディスカッションでの議論の内容をおおむね理解できる。
Guideline proposal

- 医学・医療関連の英語メディアの情報を聴き取りおおよそ理解できる。
- 発話力
  - 簡単なプレゼンテーションができる。
  - グループディスカッションで自分の意見を簡単に述べることができる。
- 簡単な質問に答えることができる。

2. Advanced requirement

- 英語で診察結果(臨床推論を含む)などを患者さんに説明し、上級医に報告できる。
- 英語で医学・医療の研究成果の発表・討論、並びにネットワーク形成ができる。

注: Advanced requirementは「国内外での医療活動」を前提とする。

[具体的な目安]

(診療)
- 聴力
  - 患者さんの社会的背景、信条などを聴き取り、理解できる。
  - 電話での会話、子供の発音、異なる母語の話者の発音などを聴き取り、理解できる。
- 発話力
  - 患者さんに基本的な診察結果・治療方針(臨床推論を含む)などを説明できる。
  - 患者さんの状態を上級医に報告し、病態についてディスカッションすることができる。
  - 症例プレゼンテーションとそれに伴う質疑応答ができる。

(研究)
- 聴力
  - 国際学会発表などのプレゼンテーションの内容をおおよそ理解できる。
  - 医学・医療関連の英語メディアの情報を聴き取り活用できる。
  - グループディスカッションでの議論の内容を理解できる。
- 発話力
  - 学会・研究者で発表ができる。
  - 他の発表に対して質問ができる。
  - グループディスカッションで議論に沿って発言し、説明できる。
  - 学会・研究者参加者と懇談やネットワーク形成ができる。

References

(1) Vocabulary

一般用語
- 「病院で使える イラスト英単語」 (メジカルビュー社)
- 「これだけは知っておきたい医学英語・表現 第3版」 (メジカルビュー社)

専門用語
- 「トッパージャーソナルの症例集で学ぶ医学英語」 (アルク)
- 「日本医学英語検定試験3・4級教本 改訂2版」 (メジカルビュー社)
- 「医師国家試験出題基準・必須基本的事項（大項目18・一般教養的事項、中項目C・診療に必要な一般的な医学英語）」
- その他、モデル・コース・カリキュラムに収載されている主要36症候・病態や索引に書かれている語彙

(2) Reading

- 「医学英語読解15のポイント」 (メジカルビュー社)
- 「すぐに役立つ！医学论文読み方のコツ」 (メジカルビュー社)

(3) Writing

- 「アセプトされる英語医学論文を書こう！」 (メジカルビュー社)
- 「実例による医学英語専門書の書き方 改訂2版」 (メジカルビュー社)
- 「正しく効果的に伝える医師のための医学Eメールの書き方」 (メジカルビュー社)
- 「医学英語活用辞典」 (メジカルビュー社)

(4) Communication

- 「今日から役立つ！医師のための英会話フレーズ500」 (外務省発表)／学会発表編 (メジカルビュー社)
- 「外国人患者さんがいたら困らない！英語で伝える病気のあらまし」 (メジカルビュー社)
- 「診療現場のリアル英会話」 (メジカルビュー社)
- 「医師のための診療英会話」 (メジカルビュー社)
- 「もうプレゼンで困らない！和英で行う医学英語フェア辞典」 (メジカルビュー社)
- 「国際学会英語--挨拶・口頭・発表・質問・座長進行」 (医療出版)

(5) Textbooks

- 日本医学英語教育学会編「講義録 医学英語I, II, III」 (メジカルビュー社)

(6) Websites

- UpToDate (Wolters Kluwer) (http://www.uptodate.com/ja/home)
- DynaMed (EBSCO Publishing) (http://www.ebsco.co.jp/dynamed/)
- 医学会Web (医学中央雑誌刊行会) (http://www.jamas.or.jp/)
- Best Practice (BMJ Publishing Group) (http://wwwclinicalevidencebmjcom/x/index.html)
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Most writers devote much more attention to content than to format, and quite rightly so. However, many pay so little attention to basic formatting that they end up shooting themselves in the foot, as the writer of a recent letter to *The Independent* (a UK daily) is keen to point out:

This summer I reviewed well over 500 CVs from applicants for the 20 or so graduate positions our fast-growing technology company had on offer. Just over half of those applicants were in the reject pile within one minute of their submissions being opened. Spelling mistakes, typographical errors, random capitalisation and eclectic font use accounted for the majority.

I think it is safe to say that few papers submitted to academic journals reach the reject pile quite that rapidly, but it is probably also safe to say that most journal editors feel sorely tempted to aim many submissions straight at the bin for reasons similar to the ones cited above. I speak not particularly as a JMEE editor, but as someone with years of experience of editing papers submitted to various journals. I am regularly amazed by how little consideration some writers seem to give to the initial impression their submissions are going to make on the editors and reviewers.

There are perhaps three main causes of formatting problems in submissions to academic journals: 1. inattention to the target journal’s instructions to authors, 2. poor computer skills, and 3. poor writing skills. There are other less common causes, of course, including amusingly feeble attempts at deception – all veteran editors will have come across excessively long papers trying to look short by means of 0.5-cm margins and tiny fonts, or short papers trying to look long with 6-cm margins, triple line spacing and gigantic fonts!

**Instructions to authors**

Ignoring instructions to authors does not necessarily lead to the more egregious formatting errors caused by poor computer or writing skills, but it does indicate a somewhat lackadaisical approach on the part of the author. Instructions vary substantially from journal to journal, so contributors need to pay attention to specific requirements on margin settings, fonts and font sizes, line spacing, etc. They also need to be aware that the formatting requirements of particular journals may well be different from the default settings on their computers. This Journal’s guidelines for authors stipulate, for example, that margins should be set at 30 mm left and right, and 25 mm top and bottom. I suppose that as Editor-in-Chief I should know the reason for this stipulation. Actually, I do not know of any particularly compelling reason, but I do know that the default margin settings on one of my computers (which runs an English version of MS Word) are slightly different, and that those on another (which operates a Japanese version of MS Word) are more than slightly different. Therefore, regardless of which computer I use, I have to make adjustments to meet JMEE’s requirements. Unlike some writers, I feel no urge to rebel!

Maybe those who do rebel feel that instructions on such matters are unimportant, because they know that editors can easily make the necessary adjustments with a few clicks of the mouse. Such arguments are unlikely to impress editors and reviewers, though, who will probably feel that not following instructions shows a lack of respect for the journal and a careless attitude on the part of authors. But the important point is that by not following the journal’s instructions, authors are likely to create a bad first impression of their submissions and distract the editors from the far more important issue of consideration of the content.

**Poor computer skills**

People of my generation and above completed our higher education without the help of computers, and some of us think this constitutes a good excuse for poor computer skills. (It does not, of course, in academia, because it is difficult to argue that anyone can really keep up in their field without bothering to learn how to use one of the most powerful research tools ever invented.) At the same time, we tend to assume that young people have good computer skills. Having spent most of my adult life in Japan, I cannot comment fairly on the situation in other countries, but my experience of teaching Japanese university students tells me that this is not a safe assumption. Some are extremely proficient, of course, and the speed with which they can, for example, put together an effective PowerPoint presentation is a marvel to behold. On the other hand, basic English word processing is not, generally speaking, one of their fortes.

Few students know, for example, that they should use the tab key, and not the space bar, to indent paragraphs. (Many seem to think that each sentence should start on a new line, which suggests that they do not even know what paragraphs are, let alone how to indent them; but that is another story?) Nor do they know how to do such simple things as change default settings, insert page breaks, get rid of right justification, find symbols in English fonts (rather than Japanese fonts), etc., all of which indicates that Japanese schools offer little if any training in English word processing.

The results of these gaping deficiencies in word-processing skills are often very irritating for those who have to correct them. Dealing with the occasional page break that writers have inserted by repeatedly hitting the return key may not be too much of a burden, but reformating paragraph indents that have been created with the space bar is much more time consuming. And what of double spacing achieved by hitting the return key twice at the end of each
line? Absurd though it may sound, this kind of thing is not unusual! It is also a great pity that so many writers create a bad first impression of perfectly good papers by presenting them poorly. Learning to use writing software is not particularly challenging, especially when compared with the enormous amount of time and effort required to learn how to write in the first place.

**Poor writing skills**

Other formatting errors are, like semantic and grammatical mistakes, just evidence of poor writing skills in general. However, formatting is a relatively simple part of a highly complex discipline, and it should be one of the first elements people are taught, along with letter/word formation and basic sentence structure. But almost all of us submit mistakes people are taught, along with letter/word formation and basic sentence structure. But almost all of us submit to the very human urge to try to run before we can walk, with the inevitable result that some of the more elementary points are glossed over in the learning process.

One of the most fundamental rules of formatting in English, and in many other languages, is that spaces are required between written words. Yet spacing anomalies are probably among the most common errors in papers submitted to academic journals. Idonotmeanthatpeoplewritelikethis (although it is not completely unknown), but incorrect spacing, often in association with numerals, punctuation marks and abbreviations, is rife. To editors and reviewers, it instantly signals a careless or inept writer. Here are some typical examples:

1. Fig.2 (Space required between 1. and Fig., and between Fig. and 2)
2. Table3 (Space required between Table and 3)
3. Neonates weighing 2kg or less are . . . (Space required between 2 and kg)
4. We measured titers of pertussis toxin (PT) and filamentous hemagglutinin (FH) in . . . (Space required before each of the two opening parentheses and after each of the two closing parentheses)
5. We measured titers of pertussis toxin (PT) and . . . (No space after the opening parenthesis or before the closing parenthesis)
6. On the other hand, basic English . . . (Space required between the comma and basic)
7. On the other hand, basic English . . . (Space required after the comma but not before it)
8. Key words: dyspepsia, flatulence, autism, (No space between words and the colon, and no comma after the final item in the list)

Two useful rules of thumb: numerals and abbreviations are words, and punctuation marks are not spaces. There are exceptions, of course, as with reference citations (no spaces after commas separating numerals). Also, symbols, as opposed to abbreviations, can behave differently. For example, there should be no space between a numeral and the symbol denoting percent. I do not have space to deal extensively with such matters here, but you should look them up in a style manual if you are unsure.

It is perhaps worth mentioning, for the benefit of Japanese readers, that spacing problems are commonly caused by the use of Japanese fonts. For example, if you type “don’t” in MS Mincho, you will get what looks like a space after the apostrophe (don’t). I also used MS Mincho for the parentheses, with the result that there appears to be a space before the period, even though I did not insert one; the space before the opening parenthesis is also too wide. It should be obvious that using Japanese fonts to write English is an extremely bad idea, but if you need a concrete reason, this is a very good one!

In many cases, more than one formatting style is possible, unless the journal you are targeting specifies which you should use. For example, it is not considered incorrect to insert two spaces between sentences instead of just one. Why anyone would actually want to do this, I have no idea. There was a valid reason for the practice in the days of typewriters, apparently (something to do with typefaces), but it is generally considered old fashioned these days. A more serious problem, though, is that it is an open invitation to inconsistency: you will easily notice if you have failed to insert one space between two sentences (in fact, Bill Gates will alert you to the fact by means of a red squiggly line if you use his software), but you are very likely to miss the occasional single space where you intended to insert two.

Other formatting inconsistencies are relatively easy to spot, and every effort should be made to correct them before submission: mixed fonts and font sizes, mixed line spacing, mixed spelling and punctuation use (American versus British), inconsistent indent and margin sizes, varying citation styles, and so on, and so on.

**Conclusion**

A paper submitted to an academic journal is, or at least should be, the result of a significant investment of time and effort on the part of the author(s), so it is senseless to risk rejection by paying insufficient attention to basic formatting. I hope the suggestions below will be helpful in reducing this risk.

1. Read the instructions to authors and obey them, however trivial and annoying they may seem. Contact the journal in question if any of the instructions are unclear to you.
2. Learn to use word-processing software properly, or at least have your paper edited by someone who does know how to use it.
3. Use a style manual to check up on any elements of formatting you are unsure of.
4. In the process of reviewing your paper, do not forget to look for formatting errors. Pay attention to the help your computer tries to give you in this: green or red squiggly lines mean it thinks something is amiss; the computer will sometimes be wrong, but you should always check.
5. Seek the help of several friends and colleagues in the review process – it is easy to miss problems in your own writing that other people, looking at it with fresh eyes, will spot immediately.
The last word

Nell Kennedy became the editor of a journal with two names and no clear direction. There was hardly any attempt to scrutinize submissions or to improve manuscripts. Nell wrote the first Instructions to Authors and created guidelines that put the journal on an academic track. When professor Yoshioka and myself were appointed editors we went to Hokkaido to meet Nell, and she handed over the material she had accumulated and provided a wealth of information based on her long experience.

The material was all in long hand, with comments in different coloured ink. Prof. Yoshioka and myself moved the journal to the electronic age; manuscripts, said our revised instructions, should be submitted on CD. Needless to say, in the latest revision of the instructions penned about half a year ago, there is no mention of CDs, as by now all submissions and correspondence are by e-mail.

We appointed several review editors, and the reviewing process is now well established. As editor, I often marveled at the work of the reviewers, who must have spent a substantial amount of time reading the manuscripts and commenting on them. The result was better submissions from which the readers could benefit. There were, of course, exceptions. One reviewer wrote: ‘I did meet the author at a conference, and I think she is a nice person’. Nice, but not very helpful and a good case for deleting a reviewer from any future consideration.

The journal is dedicated to Education and is, therefore, unique. Medical English, as the title has it, or English for Medical Purposes (EMP) as the official name of the profession is, may be quite wide in its applications and have other publications. But the issue of how best to teach it is not seriously addressed. It should be. Medical education tends to deal with outcomes and effectiveness. However, as English is the lingua franca of the field and as, even in English speaking countries the medical student needs to learn how to communicate in this specific language, the effective teaching of EMP does merit more attention.

Most of the works published by the journal are about things done by the authors in their classroom. There is much value to this kind of publication as it allows readers to glean the sort of information that may improve their own classes. At the same time, there is a dearth of information about the effectiveness of these methods. This is an area of growth from which our field can benefit.

Interacting with young graduates and doctors, and learning what kind of language is actually used and needed in the field should be an integral part of the EMP experience. Both teachers and lower-level students need to be involved. This should lead to research about the methods and content of teaching that can actually produce the desired results. In this way, improvements in the performance of the EMP teacher will increase the effectiveness of classes and may possibly also bring the clinicians on board and lead to closer cooperation between them and the EMP professional.

The Journal Symposium in last year’s conference exposed a deep gap between the clinicians and...
EMP teachers. It also showed us that, whereas the EMP teacher may be familiar with the rudiments of clinical practice and language needs, the clinicians are totally ignorant of what language learning is. Without this understanding, improvement of EMP learning in the medical environment will be close to impossible as the expectations of the professional clinicians will not only differ from the work in the language classroom, but the clinicians will not really be aware of what the EMP classes can deliver. If the ability to explain a list of medical words in Japanese is the desired end the teaching of English classes will have to be changed in a radical manner.

JASME is unique in that it is composed of both clinicians and EMP teachers. However, the journal has yet to receive the submissions it needs from the clinicians. This is unfortunate since it probably indicates a lack of interest in the journal and, therefore, a continued disregard for the whole field of EMP. Many clinicians run their own, mostly informal, sessions of EMP. I hope that in the near future they will describe some of these sessions in the journal. This may lead to a time when a third, or even half of the works in the journal will be the results of cooperative efforts by clinicians and EMP teachers.

This article is not yet my obituary. I am working on that at the moment. The job of the editor can be stressful: everyone dislikes the idea of telling people off, nagging and informing a writer that his work needs substantial revision; but it is also rewarding in that one gets to have a first peek at what members of the society are doing. I should like to thank all those who had to suffer from my constant pestering, Mr. Eguchi and all members of the editorial committee, mention the help and support of Professor Yoshioka, God bless! And wish the new Supreme Leader, Tim Minton, the best of luck.

Reuben Gerling
下記の論文を日本医学英語教育学会誌Journal of Medical English Educationに投稿します。なお、他誌への類似論文の投稿はいたしません。また、採用された場合、本論文の著作権が日本医学英語教育学会に帰属することに同意いたします。

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