Communication Disorders: a combined discipline of audiology and speech and language pathology – the Israeli perspective

Liat Kishon-Rabin provides an excellent summary of audiology training in Israel, encapsulating the development of audiology services in the country. Readers will be intrigued by the systematic approach taken to its development, and its pairing with speech and language pathology.

In Israel, academic and professional organisations have adopted a dual specialty model for the disciplines of hearing (audiology) and speech and language pathology, suggesting that they are interrelated and should be studied together. Therefore, in Israel audiology and speech and language pathology are not referred to or studied as separate disciplines but rather as one. For this reason, the profession in Israel is called communication disorders, and the communication disorders (CD) clinician is a professional who specialises in speech, hearing and language sciences and disabilities. In 2008, a state law was passed defining that a "communication disorders clinician" is an individual who has been awarded a certificate of the profession from the Ministry of Health (http://www.health.gov.il/LegislationLibrary/Mikzoha_01.pdf). In order to obtain this certificate, one must hold a bachelors (BA) degree in Communication Disorders from one of the CD programmes in Israel recognised by the council of higher education (CHE) and pass a state exam from the Ministry of Health (http://www.health.gov.il/LegislationLibrary/Mikzoha_01.pdf).

Milestones in the development of the communication disorders programme in Israel

After the foundation of the State of Israel in 1948, rehabilitation and counselling services in the fields of hearing and speech and language disorders were provided by physicians and informally trained nurses, technicians and teachers. The establishment of the scientific and professional field of audiology in Israel was a result of the first International Course in Audiology, held in 1950 in Stockholm. One of the participants on the course was the late Professor Moshe Rubenstein, an otorhinolaryngologist from Tel Hashomer Hospital in Israel (Figure 1). He approached the late Professor Moe Bergman, a participant from the United States and one of the leading instructors at the Stockholm course, and invited him to lecture and plan audiological services in Israel (Figure 2). Prof Bergman’s visit to Israel in 1953 led to the design and opening of several well-equipped audiology clinics in hospitals including Tel Hashomer Hospital (now Sheba Medical Center) and Hadassah Hospital in Jerusalem, both affiliated today to a CD programme (Tel-Aviv University and Hadassah Academic College, respectively). By the mid-1960s, the proliferation of audiology and speech and language pathology services in the country indicated the need for the establishment of a formal university-based and degree-awarding programme in audiology and speech and language pathology.

In 1967, the first Department of Communication Disorders – Speech, Language and Hearing, was founded by Prof Moshe Rubenstein as the School of Communication Disorders within the Faculty of Medicine, Tel-Aviv University (TAU). Until then, no programme had existed (academic or otherwise) for training professionals in Israel in the fields of audiology and speech and language pathology. Establishing the first programme in a leading university, in addition to creating an academic degree, allowed for the development of high quality candidates and a high quality curriculum, because being part of the Sackler Faculty of Medicine gave the programme strong support in the basic sciences. It also allowed for the later establishment of graduate programmes (MA and PhD) for developing leadership in the field, specialising in specific areas and conducting research. Currently, all CD programmes in Israel are within schools of health sciences, public health or health professions, thus maintaining a curriculum with a strong scientific-medical basis.

Three basic principles guided the development of the programme, which were also the basis of the 2008 state law mentioned above. The first principle was that the programme needed to offer an academic degree (i.e. BA) to its graduates.

Note

1 It should be noted that for new immigrants who studied abroad, the Ministry of Health awards a certificate of the profession based on different criteria.
The initial curriculum of the first undergraduate programme was drawn up in the USA by Prof Moe Bergman [who headed the academic programme at Hunter College, City University of New York (CUNY), USA, and was the first executive officer of the PhD programme in Speech and Hearing Sciences at the graduate school, CUNY], and reviewed and amended by several American heads of clinical and training programmes in audiology and speech and language pathology. They were asked to propose an “ideal” speech, language and hearing programme which would provide sufficient theoretical and clinical training for transforming a BA candidate into a clinician able to make informative clinical decisions. This was a challenge considering the fact that in the USA the entry level to practice is an MA degree. An ad hoc curriculum committee in Israel then modified the proposed programme in order to accommodate it within the academic structure of higher educational institutions in Israel. The structure and curriculum of the programme that was proposed, revised and accepted in 1967, established the basis for all current undergraduate programmes in Israel. This is a structured programme of 220 semester hours (3,080 clock hours), approximately two thirds of which is devoted to theoretical and clinical teaching in the first two years, and one third of which is devoted to clinical training in the final year of the study.

As a result of the intense nature of the programme, in 2003, the CHE approved an increase of one semester to the undergraduate programme, extending it to three-and-a-half years with the condition that there would be no increase in the teaching units in the undergraduate programme. The CD classes are limited to about 45-50 students in each of the programmes. The major reason for this limitation is the difficulty that all programmes encounter in providing sufficient places in which students have hands-on clinical experience. In most CD programmes, these places need to be in public institutes or run by non-profit organisations and have the clinical staff that meet the academic criteria for student supervision (preference of MA degree, at least five years of experience in the area of supervision, and to have passed a clinical instructors course).

While the entry level to practice is a bachelor’s degree from a CD programme in Israel, clinicians are encouraged to obtain an MA degree (two years of further academic studies) for positions in the national health care system, hospitals and in the education system. Graduate studies at Tel-Aviv and Haifa universities allow the clinicians to select courses of their interest for specialising in different areas within the discipline and to conduct research in basic sciences or clinically oriented topics. Research is conducted in well-equipped, state-of-the-art laboratories within the departments. Obtaining a PhD degree is necessary for...
those interested in holding an academic position at one of the CD programmes, and is a significant advantage for those who want to hold a leading position at national level. It should be noted that each of the CD programmes also provide continuing education courses and clinically-oriented non-academic courses are offered by the Israeli Speech, Language and Hearing Association.

For 49 years, the concept that audiology and speech and language pathology is a combined discipline that should be studied together has proved to be beneficial for the Israeli population, as well as for clinicians and researchers. Although the academic training is considered demanding and rigorous, and entry level to the undergraduate programmes in CD is high, the graduating clinicians are known to be well-rounded, are clinically proficient and have the ability to integrate information from several areas. Many have moved on to obtain a PhD degree in CD and now hold key positions in the field in Israel, including at institutes for higher education, CD clinics at hospitals, rehabilitation centres, health maintenance organisations and as chief clinicians at the Ministry of Health and Ministry of Education. Graduates of the programmes in Israel lead research at prominent academic institutes abroad and many are internationally known researchers in various areas of the discipline. Most importantly, the immediate beneficiaries of the high quality training of CD clinicians in Israel are its population. Local clinicians have always attempted to keep CD services abreast of progress and developments worldwide. These include mandatory newborn hearing screening, cochlear implants, early fitting of digital hearing aids, use of telemedicine for (re)habilitation, development of diagnosis and intervention tools following head trauma, early identification and intervention of learning and reading disabilities, use of advanced imaging techniques for diagnosis and treatment of swallowing and voice disorders, and more.

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