Appendix

General characterization of the studies classified as eligible in this research, published between 1993 and 2018

Author, Year	Publication type	Methodology	Main barriers described
Dent et al., 2001 ³⁶	Research	Questionnaires applied to students $(n = 86, response rate = 65\%)$, teachers $(n = 25, response rate 48\%)$, and patients $(n = 25, response rate = 100\%)$	Growing number of students in stage groups, as well as a lack of technical and audiovisual resources
Denton et al., 2015 ²⁹	Report of conference material related to medical education	N/A	Inadequate supervision model, inadequate feedback, financial pressures on the institution, difficulty in hiring appropriate teachers, fear of patient loss by teachers, as well as long distances between ambulatory care and university
Gordon et al., 2000 ²⁸	Guideline/Expert opinion	N/A	Poor distribution of doctors, short teaching time/intense patient agenda, difficulty hiring suitable teachers, lack of a suitable and structured teaching location, lack of adequate funding, and competitiveness of teaching with patient care
Dent, 2005 ³⁵	Guideline/Expert opinion	N/A	Lack of audiovisual resources and techno- logical access to information, as well as the growing number of students in stage groups
Schultz et al., 2004 ³⁷	Research	Questionnaires applied to students (n = 532, response rate = 48%)	Short teaching time/intense patient agenda, difficulty in hiring appropriate teachers, and financial pressures from the service
Salerno et al., 2002 ²³	Analysis of audiotapes	Analysis of audiotapes of interviews with preceptors (n =30, response rate = 30%)	Short teaching time/intense patient agenda, inadequate supervision model, inadequate feedback, as well as the lack of an adequate and structured place for teaching
Dent et al., 2003 ¹⁹	Guideline/Expert opinion	N/A	Inadequate patients for teaching, and intensive care agenda
Williams et al., 2013 ⁸	Literature review	N/A	Poor distribution of doctors and lack of adequate funding
Karkabi et al., 2010 ²⁷	Guideline/Expert opinion	N/A	Short teaching time/intense patient agenda, difficulty in hiring appropriate teachers, financial pressures of the service, lack of an adequate and structured place for teaching, and a lack of concern for excellence in teaching by institutions
Leiva et al., 2012 ³²	Research	Questionnaires applied to teachers (n = 6, response rate =100%)	Lack of a teacher dedicated to teaching, short teaching time/intense patient agenda, difficulty hiring suitable teachers, financial pressures of the service, lack of an adequate and structured teaching location, lack of audio-visual resources and technological access to information, inadequate patients for teaching, patient absenteeism, growing number of students in stage groups, as well as lack of student commitment to teaching
Bardgett et al., 2011 ³¹	Guideline/Expert opinion	N/A	Lack of training and refresher courses for teachers, short teaching time/intense pa- tient agenda, lack of an adequate and struc- tured place for teaching, long distances be- tween the outpatient clinic and university, as well as inadequate patients for teaching

Myung et al., 2010 ⁵	Research	Questionnaires applied to students (n = 499, response rate = 100%)	Short teaching time/intense patient agenda, inadequate supervision model, inadequate feedback, lack of an adequate and structured place for teaching, as well as Inadequate patients for teaching
Wolpaw et al., 2009 ¹¹	Research	Analysis of clinical case presentation audios (n = 215) between two groups of students: namely, those using and those not using SNAPPS technique. (Number of students, n = 162 , response rate = $66,67\%$)	Poor distribution of doctors, short teaching time/intense patient agenda, inadequate supervision model, Inadequate feedback, as well as the lack of an adequate and structured place for teaching
Wooley et al., 2008 ²⁴	Description of an academic outpatient model	N/A	Inadequate feedback, as well as the lack of a suitable and structured teaching site
Lake et al., 2006 ¹⁷	Guideline/Expert opinion	N/A	Poor distribution of physicians, inadequate supervision model, inadequate feedback, lack of an adequate and structured place for teaching, as well as discontinuity in patient follow-up
O'Neill et al., 2006 ¹⁶	Research	Questionnaires applied to teachers (n = 311, response rate = 62%)	Inadequate supervision model
Dolmans et al., 2002 ²²	Research	Questionnaires applied to students (n = 1207, response rate = 82%)	Inadequate supervision model and feedback
Ferenchick et al., 2002 ²	Literature review	N/A	Short teaching time/intense patient agenda, as well as the lack of an adequate and structured place for teaching
Hunt et al., 1999 ⁷	Research	Questionnaires applied to course directors (n=112, response rate= 100%).	Discontinuity in patient follow-up, long distance between outpatient clinic and university, and poor distribution of physicians (specifically pediatricians)
O'Malley et al., 1999 ³⁴	Research	Questionnaires applied to students (n = 24) and teachers (n = 14) Study includes analysis of 103 teaching sessions	Short teaching time/intense patient agenda, inadequate supervision model, inadequate feedback, as well as the lack of an adequate and structured place for teaching
McGee et al., 1997 ²⁰	Guideline/Expert opinion	N/A	Short teaching time/intense patient agenda and inadequate feedback
Denton et al., 2015 ³⁰	Description of teacher hiring program	N/A	Difficulties in hiring and retaining teacher doctors, insufficient teacher remuneration, and fear of patient loss by teachers
Fields et al., 2000 ¹⁰	Guideline/Expert opinion	N/A	Short teaching time/intense patient agenda, difficulties in recruiting and retaining teacher doctors, inadequate teacher salaries, fear of patient loss by teachers, lack of an adequate and structured place for teaching, as well as long distances between the outpatient clinic and university
Croft et al., 2012 ¹⁸	Research	Questionnaires applied to students $(n = 44)$, teachers $(n = 11)$, and patients $(n = 44)$	Short teaching time/intense patient agenda, as well as the lack of an adequate and structured place for teaching
Young et al., 1998 ⁶	Research	Questionnaires applied to students (n = 13)	Short teaching time/intense patient agenda, as well as the lack of an adequate and structured place for teaching
Hundertmark et al., 2018 ²¹	Research	Likert questionnaires applied to students in participant and control groups ($n = 64$); also includes literature review and expert opinion	Short teaching time/intense patient agenda and inadequate feedback

Oliveira Franco et~al. \blacksquare Barriers to outpatient education for medical students

Dusch et al., 2018 ³⁸	Research	Questionnaires applied to students (n = 75, response rate = 83%)	Short teaching time/intense patient agenda
Braverman et al., 2016 ¹⁵	Research	Questionnaires applied to students $(n = 518)$	Short teaching time/intense patient agenda and inadequate feedback
Bösner et al., 2017 ²⁵	Research	Questionnaires applied to students (n = 36, response rate = 55,6%) and teachers (n = 35, response rate = 62,9%). Researchers also analyzed videotapes of attendances	Short teaching time/intense patient agenda and inadequate feedback
Serrao et al., 2016 ⁴²	Guideline/Expert opinion	N/A	Short teaching time/intense patient agenda
Aluko et al., 2018 ³⁹	Guideline/Expert opinion	N/A	Short teaching time/intense patient agenda, as well as conflicts between medical education and patient care
Krackov et al., 1993 ¹⁴	Guideline/Expert opinion	N/A	Institutional resistance to the financing of academic outpatient clinics, conflicts between medical education and patient care, inadequate teacher remuneration, fear of loss of productivity on the part of teachers, lack of an adequate and structured place for teaching, difficulty hiring suitable teachers, long distances between the outpatient clinic and university, as well as an inadequate supervision model
Masood et al., 2006 ⁴⁰	Guideline/Expert opinion	N/A	Inadequate supervision model without academic Structuring