

Optometry education and scope of practice in Europe and US

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What is Optometry?

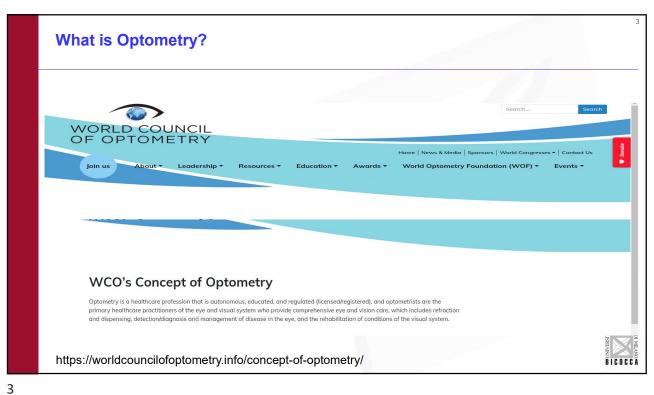
EDITORIAL

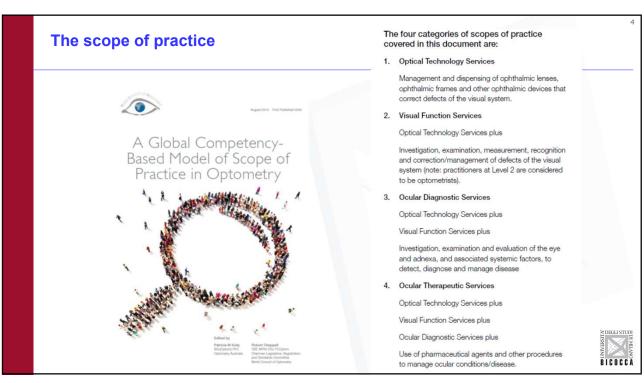
What Is an Optometrist?

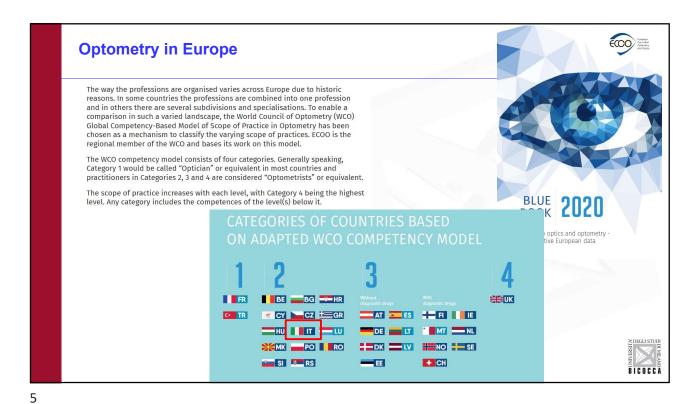
ust what is an optometrist? According to the American Heritage Dictionary, he or she is "a person who is professionally trained and licensed to examine the eyes for visual defects, diagnose problems or impairments, and prescribe corrective lenses or provide other types of treatment."1

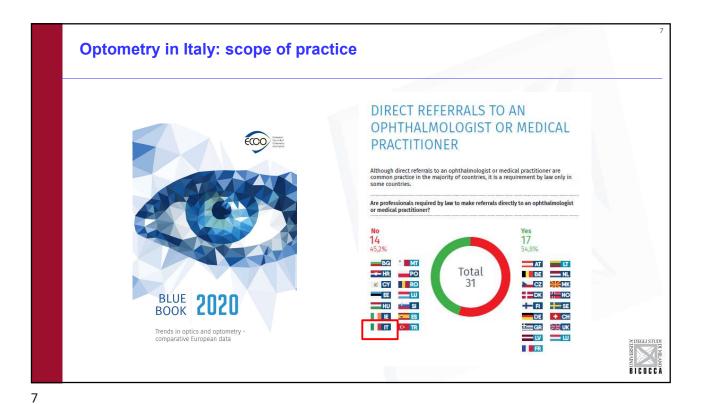
> Surely, this does not describe a 2004 American optometrist? A more appropriate definition would be more substantial and dynamic. The World Council of Optometry's Concept of Optometry (WCO)2 is as follows: Optometry is a health care profession that is autonomous, educated, and regulated (licensed/registered), and optometrists are primary health care practitioners of the eye and visual system who provide comprehensive eye and vision care, which includes refraction and dispensing, detection/diagnosis and management of disease in the eye, and the rehabilitation of conditions of the visual system.











Optometry in Italy: recognition

CATEGORY 2 IN DETAIL

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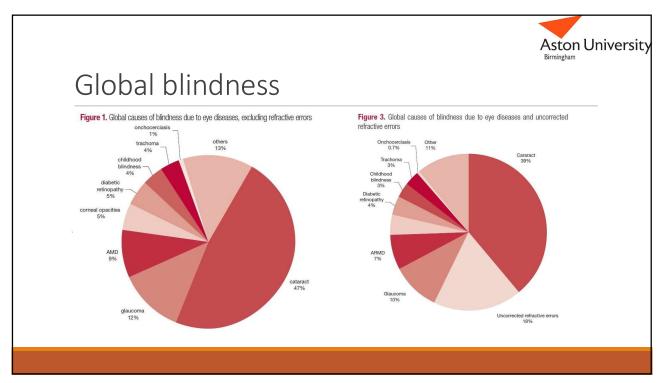
The role of optometry in serving global needs

Dr Shehzad A. Naroo

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Reader, School Of Life and Health Sciences Editor-in-Chief, Contact Lens and Anterior Eye Journal

Country	5 t.e	Ophthalmologists	% Doing	
	Population	per Million	Surgery	
Armenia	2,916,950	103	20%	Aston Universit
Austria	8,678,657	92	25%	
Azerbaijan	9,617,484	31	90%	Birmingham
Bahrain	1,371,855	48	32%	
Belarus	9,485,772	63	10%	
Bulgaria	7,177,396	120	42%	An estimated nearly 300 million
Croatia	4,236,016	98	25%	people live with vision impairment
Czech Republic	10,603,762	108	35%	
Denmark	5,688,695	79	75%	
Egypt	93,778,172	26	90%	
Estonia	1,315,321	99	20%	Uncorrected refractive errors and
Georgia	3,951,524	76	50%	oncontected remactive errors and
Germany	81,707,789	81	70%	un-operated cataract are the top
Greece	11,217,800	178	30%	·
Hungary	9,783,925	109	37%	two causes of vision impairment
Iran	79,360,487	19	80%	
Iraq	36,115,649	12	75%	Un approached entarget remains the
Israel	8,064,547	81	90%	Un-operated cataract remains the
Kosovo	1,816,000	42	43%	leading cause of blindness in low-
Latvia	1,992,663	126	25%	_
Lebanon	5,851,479	42	80%	and middle-income countries
Netherlands	16,938,499	54	40%	and initiate income countries
Norway	5,199,836	68	57%	
Oman	4,199,810	30	60%	Over 80% of all vision impairment
Poland	38,265,226	110	8%	· · · · · · · · · · · · · · · · · · ·
Republic of Moldova	4,065,980	66	30%	can be prevented or cured
Romania	19,876,621	52	30%	•
Russian Federation	143,888,004	101	10%	
Serbia	8,851,280	85	23%	
Spain	46,397,664	71	80%	
Sweden	9,763,565	76	40%	International Council of Ophthalmology www.icoph.org
Switzerland	8,319,769	91	65%	international Council of Ophthalmology <u>www.tcoph.org</u>
Turkey	78,271,472	45	90%	
United Kingdom	65,397,080	49	90%	
United States	319,929,162	59	80%	
Worldwide Average		29	60.2%	







Problems faced

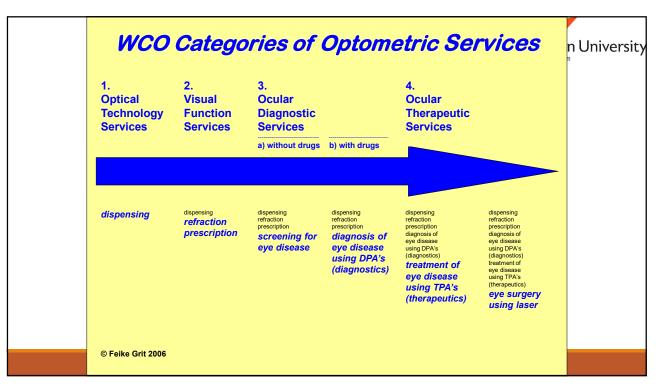
Training people to be screeners does not provide them with an autonomous career

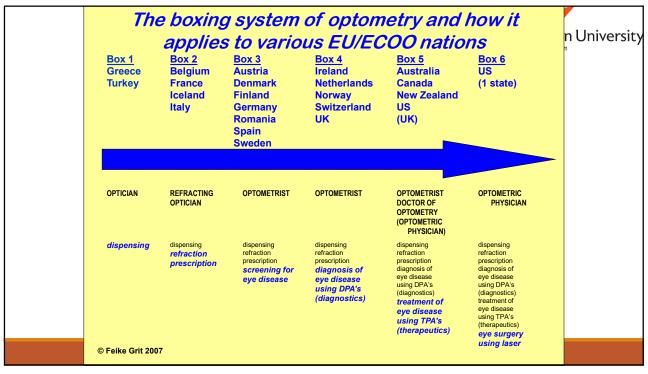
People want to upskill

Training to international standards

Lack of optometry teachers and training institutes

Public perception of allied health professions









1629 Regulated quality of spectacles1898 Examinations for OpticiansSyllabus for technical college courses



1895 British Optical Association

1895 Examinations for Opticians Syllabus for technical college courses



1980 College of Optometrists

Took over the Optometry examining function of the BOA, the SMC and SAO

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Aston University

The General Optical Council, 1958

Act of Parliament 1958 created the GOC to regulate UK optometry and optical dispensing

The GOC delegated its examining functions by accrediting the existing examinations of the SMC and BOA, and later the COptom, as the means to admission onto register



Opticians Act 1989

1989 CHAPTER 44

An Act to consolidate certain enactments relating to opticians with amendments to give effect to recommendations of the Law Commission and the Scottish Law Commission.

BETENACTED by the Queen's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:—



GOC accreditation process

1965: Three-year (4 years in Scotland), full-time, university BSc degree courses

Then the students enter the Scheme for Registration and undertake examinations from the College of Optometrists

Then they are allowed to register with the GOC

GOC visits all universities and Scheme for Registration structure every 5 years

GOC approves, provisionally approves on the basis of changes being made, or withdraws approval

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Scheme for Registration

1 year Scheme for Registration experience working under direct supervision

12 months, including 1 day per week observing an Ophthalmologist 500 eye examinations, 350 dispensing, 350 contact lens (CL) patients Keep a logbook

Exit examinations before registration

Lead to becoming DOpth or MCOptom





Non-UK qualified optoms wanting to work in UK

Must apply to GOC (www.optical.org)

Need to demonstrate equivalent experience and training

GOC may reject application

GOC may ask for certain areas of study from applicants

Successful applicants need to undertake the Scheme for Registration



OPTOMETRY EDUCATION AND SCOPE OF PRACTICE IN THE UNITED STATES OF AMERICA

Joanne Caruso, O.D.



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- Clinical Instructor at East Boston Neighborhood Health Center
- Solo Private Optometry Practice in Watertown, MA



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US Optometry Presentation

- Doctor of Optometry O.D.
- Educational System in the US to become a Doctor of Optometry
- Post Graduate Optometry Residency Programs
- · Optometric Scope of Practice
- · Optometric Billing Practices



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Doctor of Optometry

- Optometrists are America's primary eye health care providers.
- Optometrists provide high-quality eye health and vision care services.
- In the USA there are more than 30,000 Doctors of Optometry nationwide.



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Doctor of Optometry

Optometrists examine, diagnose, treat and manage diseases and disorders of the eye.

- Prescribe spectacle lenses and contact lenses
- Binocular vision, strabismus/amblyopia and vision training
- Pediatrics
- Rehabilitation vision and geriatric care
- Diagnostic and Therapeutic pharmaceutical agent application
- Perform certain surgical procedures



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Doctor of Optometry

- Optometrists play a major role in an individual's overall health and well-being by detecting systemic diseases, such as diabetes and hypertension. And sometimes even life threatening conditions.
- Counsel patients regarding surgical and nonsurgical options that meet their visual needs related to their occupations, avocations and lifestyle.



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Optometry in the USA

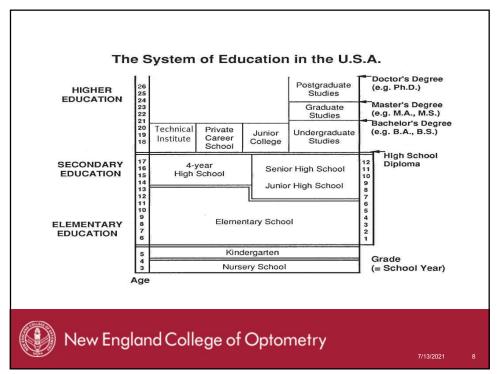
- · Optometry is a regulated profession
- Optometry Schools in US are accredited by both educational and optometric bodies
- National Board Exam in Optometry Established minimum competency standards
 for all graduating Optometry students
 required prior to licensure
- Some states require additional tests or requirements



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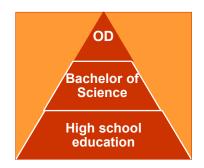
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Optometric Education structure



Optometric Aptitude
Test (OAT)

Pre-requirements -Biology,
Chemistry, Physics,
Calculus, Statistics,
Psychology



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Educational System in US to become an Optometrist

- Optometry School is a four year of professional education at a college of optometry, leading to the Doctor of Optometry (O.D.) degree.
- The United States has 23 Colleges of Optometry



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23 Colleges of Optometry in US









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Educational System in US to become an Optometrist

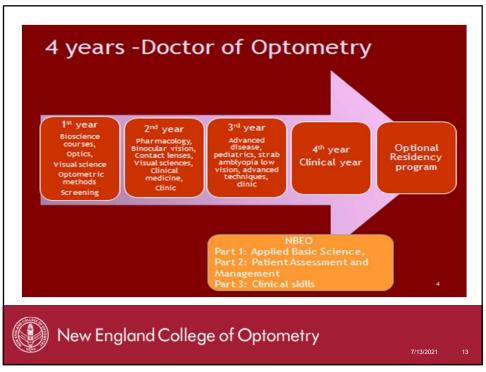
- What is optometry school like?
 Optometry school is a four year program.
- Usually 3 years of Didactic Course Work to prepare you to be able to practice in any state in the USA.
- The Clinical Experience starts in the 1st 2nd and 3rd years with a day or 2 in a clinic seeing patients.
- The 4th year is usually 12 months of Clinic in a variety of settings - Community Health Centers, Veterans Administration Hospitals, Specialty Clinics - Pediatrics, Contact Lenses, Low Vision, and Private Practices.

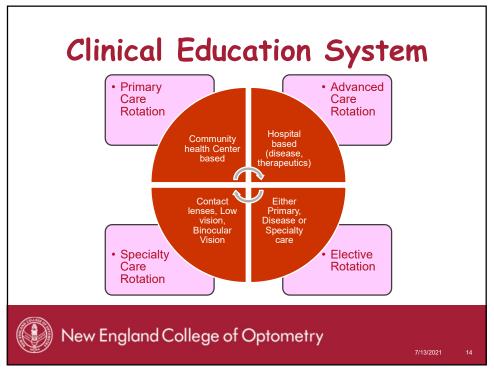


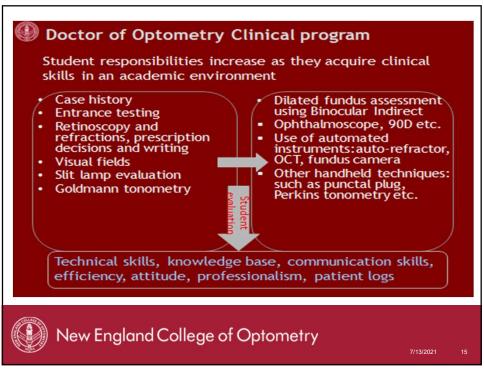
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Am I a licensed optometrist after graduating from optometry school?

- Graduate from an accredited US optometry school
- Pass all parts of the National Boards in Optometry
- Individual states may require additional exams beyond the National Board exam



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Optometry Residency Programs

~25%-28% of Optometrists do a Residency Program

Primary eye care
Family practice
Vision therapy and rehabilitation
Cornea and contact lenses
Pediatric optometry
Geriatric optometry
Refractive and ocular surgery
Low vision rehabilitation
Ocular disease
Community health optometry
Brain Injury Vision Rehabilitation



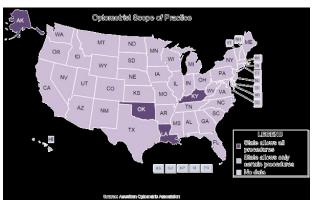
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Scope of Optometric Practice in the United States

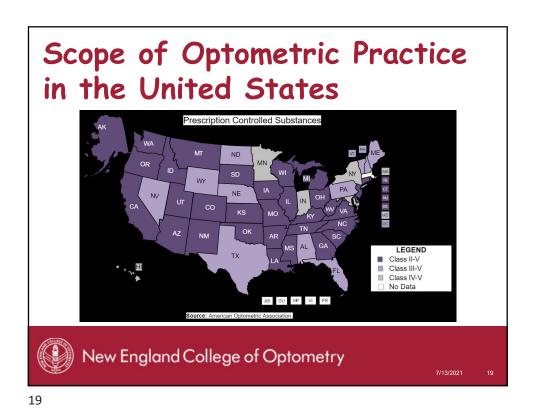




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Scope of Optometric Practice in the United States

SURGICAL AUTHORITY

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SCOPE of Optometry

Practice

LEGEND

Lumps and Bumps

Performance of Additional Ophthalinic Procedures and Bumps

Bumps

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Billing and Services for Optometrists

- In the US Optometrists Professional Expertise is honored and patients pay a comprehensive Eye Exam either through their Health or Vision Insurance or Private Pay.
- Eyeglasses and Contact Lenses are an additional cost (Private Pay) although some Health or Vision Insurances may pay toward their cost.



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Defensive Medicine/Optometry

- Medicine practiced in such a way as to reduce the risk of malpractice litigation, typically by the use of excessive diagnostic testing
- Optometric Malpractice Insurance with insurance covering 2 Million/4 Million per incident



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Educational System in US to become an Optometrist for International Students

- Advanced Standing International Program (ASIP) allow Internationally trained Optometrists to earn a Doctor of Optometry degree.
- The requirements for the ASIP includes being a graduate from a recognized optometry program outside the US, minimum Bachelor's degree (4 years) or higher, minimum 2 years of optometric experience post licensure.
- The curriculum is designed to complement the student's previous education and experience. The courses include basic and advanced health care sciences, clinical patient care, vision sciences.
- Typically 12 months of didactic course work and 12 months of clinical externships.



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NECO-ASIP - Verona, Italy

- New England College of Optometry's ASIP
 Program was delivered in Italy in 1992. First
 Optometric program to be delivered
 overseas. This program was approved by the
 Council on Optometric Education.
- 8 Italian Students graduated with the OD degree in 1997. They are practicing in Italy.



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ASIP-Verona Doctors of Optometry





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References

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- Scope of Practice
 https://www.ncsl.org/research/health/optometrist-scope-of-practice.aspx
- New England College of Optometry https://www.neco.edu/
- Midwestern University- Chicago College of Optometry
 https://www.midwestern.edu/academics/ourcolleges/chicago-college- of-optometry.xml



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