Supplementary Online Content

Zhao PY, Rahmathullah R, Stagg BC, et al. A worldwide price comparison of glaucoma medications, laser trabeculoplasty, and trabeculectomy surgery. *JAMA Ophthalmol.* Published online August 30, 2018. doi:10.1001/jamaophthalmol.2018.3672

eFigure 1. Price Ratio of Brand Name Xalatan versus Generic Latanoprost

eFigure 2. Cost of Laser Trabeculoplasty as a Percentage of Median Annual Household Income

eFigure 3. Price Ratio of Trabeculoplasty versus Latanoprost Therapy

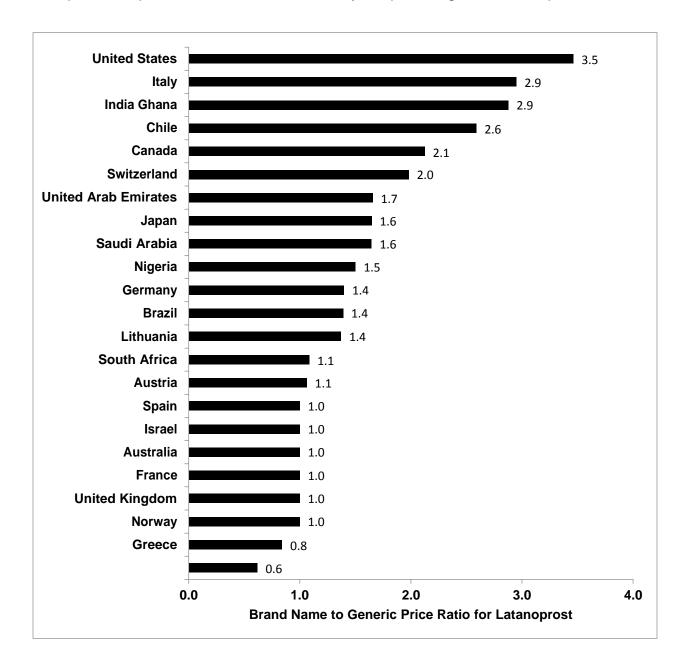
eFigure 4. Price Ratio of Trabeculectomy versus Latanoprost + Timolol Therapy

eTable. List of data sources arranged by country

This supplementary material has been provided by the authors to give readers additional information about their work.

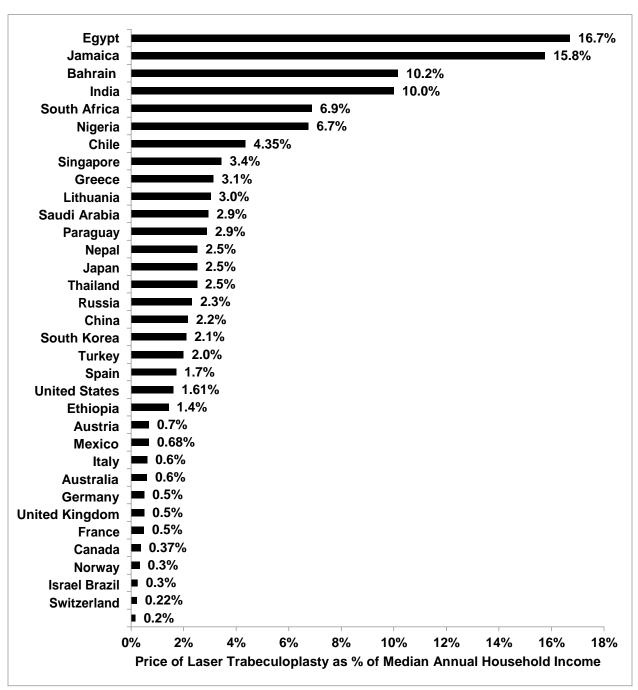
eFigure 1. Price Ratio of Brand Name Xalatan versus Generic Latanoprost

In countries with pricing data available for brand name latanoprost (Xalatan) and generic latanoprost, the price of Xalatan was divided by the price of generic latanoprost.



eFigure 2. Cost of Laser Trabeculoplasty as a Percentage of Median Annual Household Income

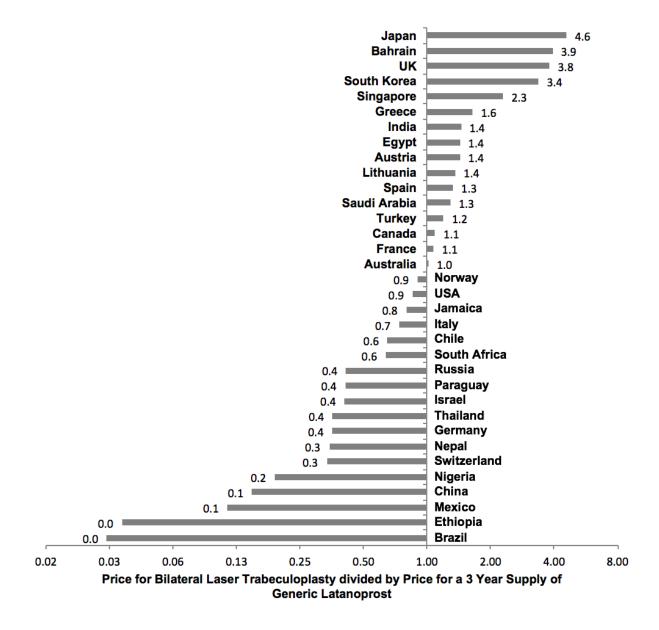
Prices for laser trabeculoplasty were divided by the median annual household income in each country and expressed as a percentage. Data not available for Guatemala, United Arab Emirates, and Qatar.



Prices are reported as individually charged laser procedures per eye.

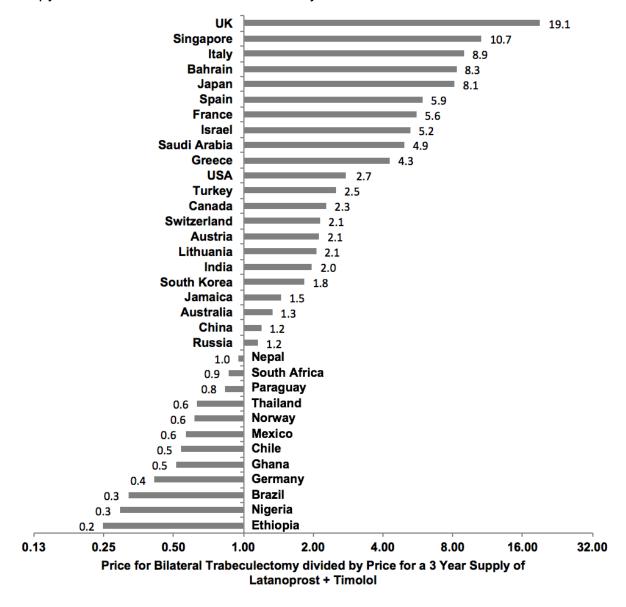
eFigure 3. Price Ratio of Trabeculoplasty versus Latanoprost Therapy

Prices were computed for bilateral laser trabeculoplasty procedures and divided by prices for a three-year supply of generic (or brand name if generic not available) latanoprost therapy to obtain cost ratios for each country.



eFigure 4. Price Ratio of Trabeculectomy versus Latanoprost + Timolol Therapy Prices

These prices were computed for bilateral trabeculectomy procedures and divided by prices for a three-year supply of generic (or brand name if generic not available) latanoprost + generic timolol therapy to obtain cost ratios for each country.



eTable. List of data sources arranged by country

Country USA	Source of Medication Data RED BOOK Online	Source of Procedure Data CMS Physician Fee Schedule
Canada (Ontario)	Ontario Drug Benefit Formulary	Ontario Schedule of Benefits
Canada (Quebec)	Quebec List of Medications	Billing Manual of Medical Specialists
Mexico	Publication: Topical glaucoma cost in Mexico	Tabulador de cuotas de recuperación
Guatemala Brazil	Personal Communication Drug Price Lists	Personal Communication Unified Table of Procedures
Chile	Personal Communication	Personal Communication
Paraguay	Personal Communication	Personal Communication
U.K.	British National Formulary	National Tariff Payment System
France	Public Database of Medications	T2A Pricing Activity Tariff List
Spain	Price List of Prescription Drugs, Personal Communication	Personal Communication
Switzerland	Personal Communication	Personal Communication
Austria	Personal Communication	Personal Communication
Lithuania	Compensated Medicinal Price List	Personal Communication
Nigeria	Publication, personal communication	Publication, personal communication
Ethiopia	Personal Communication	Personal Communication
South Africa	South African Medicine Price Registry	Government Gazette
Israel	Price List of Prescription Drugs	Price List for Ambulatory and Hospitalization Services
China	Personal Communications	Personal Communications
Nepal	Personal Communication	Personal Communication
Japan	Drug Price Standards	Medical Fees
Thailand	Personal Communication	Personal Communication
India	Personal Communications	Personal Communications
Australia	Australia Pharmaceutical Benefits Scheme	Australian Medicare Benefits Schedule
Singapore	Personal Communication	Personal Communication
Italy	Personal Communication	Personal Communication
Jamaica	Personal Communication	Personal Communication
Russia	Personal Communication	Personal Communication
Ghana	Personal Communication	Personal Communication
South Korea	Personal Communication	Personal Communication
Turkey	Personal Communications	Personal Communications
Saudi Arabia	Personal Communication	Personal Communication
Bahrain	Personal Communication	Personal Communication
Norway	Drug Pricing Database	Personal Communication
Egypt	Personal Communication	Personal Communication
Greece	Personal Communication	Personal Communication
Germany	German Institute of Medical Documentation and Information	Fee Schedule for Doctors
United Arab Emirates	Personal Communication	Personal Communication
Qatar	Personal Communication	Personal Communication

RED BOOK Online via TruVen Health Analytics Micromedex 2.0, available at https://www.micromedexsolutions.com, accessed Feb 2016

CMS Physician Fee Schedule, Centers for Medicare & Medicaid Services, available at https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PhysicianFeeSched/index.html, accessed Feb 2016

Ontario Drug Benefit Formulary, Ministry of Health and Long-term Care, available at

https://www.formulary.health.gov.on.ca/formulary/, accessed Feb 2016

Ontario Schedule of Benefits, Ministry of Health and Long-term Care, available at

http://www.health.gov.on.ca/english/providers/program/ohip/sob/physserv/physserv_mn.html, accessed Feb 2016

Quebec List of Medications, Régie de l'assurance maladie du Québec, available at

http://www.ramq.gouv.qc.ca/en/regie/legal-publications/Pages/list-medications.aspx, accessed Feb 2016 Manuel de facturation des médecins spécialistes, Régie de l'assurance maladie du Québec, available at http://www.ramq.gouv.qc.ca/fr/professionnels/medecins- specialistes/manuels/Pages/facturation.aspx, accessed Feb 2016

Lazcano-Gomez G, Hernandez-Oteyza A, et al (2014). Topical glaucoma cost in Mexico. Int Ophthalmol 34(2), 241-249.

Gaceta Oficial del Distrito Federal, El Secretario de Finanzas, available at

http://www.finanzas.df.gob.mx/transparencia/14/I/otros/2014/tabulador_cobro_servicios_medicos_df.pdf, accessed Jun 2016

Tabulador de cuotas de recuperacion, Hospital Civil de Guadalajara, available at

http://www.hcg.udg.mx/LIBs/bajArchivos.php?id=Tabulador_cuotas_recuperacion_2015.pdf, accessed Feb 2016

Personal Communication, Mariano Yee Melgar, Ophthalmologist and Founder, VISUALIZA Clinica de Ojos, Guatemala City, Guatemala, Feb 2016

Listas de preços de medicamentos, Câmara de Regulação do Mercado de Medicamentos, available at http://portal.anvisa.gov.br/web/cmed/lista-de-preco-de-medicamentos, accessed Feb 2016

Tabela unificada de procedimentos e medicamentos do SUS, Ministério da Saúde Brazil, available at http://sigtap.datasus.gov.br/tabela-unificada/app/sec/inicio.jsp, accessed Feb 2016

Personal Communication, Fernando Barría von-Bischhoffshausen, Ophthalmologist, Hospital Clínico

Regional Doctor Guillermo Grant Benavente de Concepción, Concepción, Chile, Feb 2016

Personal Communication, Cristina Sanchez Gauto, Institutional Relationship Manager, Fundacion Vision, Fernando de la Mora, Paraguay, Feb 2016

British National Formulary via MedicinesComplete, available at

https://www.medicinescomplete.com/mc/bnf/current/, accessed Jun 2016

National Tariff Payment System, National Health Service England, available at

https://www.england.nhs.uk/resources/pay-syst/, accessed Jun 2016

Base de données publique des médicaments, Ministère des Affaires sociales et de la Santé, available at http://base-donnees-publique.medicaments.gouv.fr/, accessed Feb 2016

Classification Commune des Actes Médicaux, L'Assurance Maladie, available at http://www.ameli.fr/l-assurance-maladie/documentation-technique/t2a-ccam-et-lpp/, accessed Feb 2016

Tarification à l'activité, L'Assurance Maladie, available at http://www.ameli.fr/l-assurance-

maladie/documentation-technique/t2a-ccam-et-lpp/, accessed Feb 2016

Informacion actualizada de los precios menores de las nuevas agrupaciones homogeneas Jan 2016,

Spanish Ministry of Health, Social Services, and Equality, available at

https://www.msssi.gob.es/profesionales/farmacia/, accessed Apr 2017

Personal Communication, Antonio Moreno Valladares, Director of Ophthalmology, Hospital Quironsalud Albacete, Albacete, Spain, Apr 2017

Spezialitätenliste, Switzerland Federal Office of Public Health, available at

http://www.spezialitaetenliste.ch/, accessed Feb 2016

Personal Communication, Marc Töeteberg-Harms, Attending Physician, Department of Ophthalmology, University Hospital Zurich, Zurich, Switzerland, Feb 2016

Personal Communication, Anton Hommer, Ophthalmologist, Krankenanstalt "Sanatorium Hera", Vienna, Austria, May 2017

Kompensuojamųjų vaistinių preparatų kainynas, Lithuanian Ministry of Health, available at

https://sam.lrv.lt/lt/veiklos-sritys/farmacine-ir-kita-su-tuo-susijusi-veikla/vaistu-ir-medicinos-pagalbos-priemoniu-kompensavimas/kompensuojamuju-vaistiniu-preparatu-kainynas, accessed Apr 2017

Personal Communication, Ingrida Janulevičienė, Professor, Lithuanian University of Health Sciences, Apr

2017

Omoti AE, Edema OT, Akpe BA, Musa P (2010). Cost analysis of medical versus surgical management of glaucoma in Nigeria. J Ophthalmic Vis Res 5(4): 232-239.

Personal Communication, Olufemi Emmanuel Babalola, Professor of Ophthalmology, Bingham University, Jos/Karu, Nigeria, Feb 2016

Personal Communication, Bezawit Tadegagne, Head, Department of Ophthalmology, St. Paul's Hospital Millenium Medical College, Addis Ababa, Ethiopia, Mar 2016

Government Gazette, South Africa Department of Labour, available at

http://www.labour.gov.za/DOL/downloads/legislation/notices/medical-tariffs/, accessed Feb 2016 South African Medicine Price Registry, South Africa Department of Health, available at

http://www.mpr.gov.za/, accessed Feb 2016

Price List of Prescription Drugs, State of Israel Ministry of Health, available at

http://www.health.gov.il/Subjects/Finance/DrugPrice/Pages/default.aspx, accessed Feb 2016

Price List for Ambulatory and Hospitalization Services, State of Israel Ministry of Health, available at http://www.health.gov.il/Subjects/Finance/Taarifon/Pages/PriceList.aspx, accessed Feb 2016

Personal Communication, Hu Cheng, Ophthalmologist, Eye Hospital of Wenzhou Medical College,

Wenzhou, Zhejiang Province, China, Feb 2016

Personal Communication, Shaomin Peng, Ophthalmologist, Aier School of Ophthalmology of Central South University, Hunan Province, China, Feb 2016

Personal Communication, Suman S. Thapa, Ophthalmologist, Tilganga Institute of Ophthalmology, Kathmandu, Nepal, Feb 2016

Drug Price Standards, Japan Ministry of Health, Labour, and Welfare, available at

http://www.mhlw.go.jp/topics/2014/03/tp0305-01.html, accessed Feb 2016

Medical Fees, Japan Ministry of Health, Labour, and Welfare, available at

http://www.mhlw.go.jp/stf/seisakunitsuite/bunya/000038855.html, accessed Feb 2016

Personal Communication, Kulawan Rojananuangnit, Ophthalmologist, Mettapracharak Watraikhing Hospital, Nakhon Pathom, Thailand, Feb 2016

Personal Communications, Ophthalmologists working in Coimbatore, Madurai, Hyderabad, Chennai, and Delhi, India, Feb 2016

Australian Medicare Benefits Schedule, Australian Government Department of Health, available at http://www.mbsonline.gov.au/, accessed Feb 2016

Pharmaceutical Benefits Scheme, Australian Government Department of Health, available at http://www.pbs.gov.au/, accessed Feb 2016

Personal Communication, Desmond Quek Tung-Lien, Consultant, Glaucoma Service, Singapore National Eye Centre, Singapore, Jun 2016

Personal Communication, Carlo E. Traverso, Ophthalmologist, University of Genoa, Italy, Jun 2016 Personal Communication, Claudine Green-Hemmings, Ophthalmologist, Cornwall Regional Hospital, Jamaica, Jun 2016

Personal Communication, Alina Yurkina, Ophthalmologist, Department of Glaucoma Surgery, S.

Fyodorov Eye Microsurgery State Institution, Moscow, Russia, May 2017

Personal Communication (on international mission to Ghana), Donald L. Budenz, Professor of Ophthalmology, University of North Carolina, United States, May 2017

Personal Communication, Young Kook Kim, Assistant Professor of Ophthalmology, Seoul National University College of Medicine, South Korea, Aug 2017

Personal Communication, Cem Ozgonul, Ophthalmologist, Van Military Hospital, Van, Turkey, Jul 2017 Personal Communication, Can Kocasarac, Ophthalmologist, Kocaeli Derince Education and Research Hospital, Derince, Turkey, Jul 2017

Personal Communication, Faisal Almobarak, Assistant Professor, Department of Ophthalmology, King Saud University, Saudi Arabia, Jul 2017

Personal Communication, Sammy Basit, Ophthalmologist, Norwegian Ophthalmological Society, Norway, Aug 2017

Pharmaceutical Industry Felleskatalogen, available at https://www.felleskatalogen.no/, accessed Aug 2017

Personal Communication, Fathi El Sayyad, Ophthalmolgoist, El Sayyad Eye Centers, Giza, Egypt, Apr 2017

Personal Communication, Anastasios G.P. Konstas, Professor, Glaucoma Unit, Department of

Ophthalmology, Aristotle University of Thessaloniki, Thessaloniki, Greece, Apr 2017 Fee Schedule for Physicians, Germany Federal Law Gazette, available at http://www.e-bis.de/goae/defaultFrame.htm, accessed Aug 2017 Drug Reference Prices, German Institute for Medical Documentation and Information, available at https://www.dimdi.de/static/de/amg/festbetraege-zuzahlung/festbetraege/index.htm, accessed Aug 2017