

From Susie's Desk



Susie and Khushboo, India

I'm tremendously proud to celebrate Smile Train's 25th anniversary and to reflect on the extraordinary value of what we have accomplished. A lot has changed about Smile Train since our founding in 1999.

Over the past 25 years, we have grown as an organization, extended our reach and impact around the world, expanded the breadth of care and services we support, and pioneered a range of groundbreaking innovations.

Our main founding principle – our "teach a person to fish" model – has been at the heart of all of this. Our approach has always centered on empowerment and sustainability, and the results speak for themselves – from a small charity founded on a belief that things could be done differently and more effectively, we have grown into the world's largest cleft organization.

Amazingly, this year we supported our two-millionth surgery. This is much more than a statistic. It means millions of lives changed – and, in many cases, saved. And, with each patient we help treat, we are also serving a family and a community; we

are building more promising futures for individuals and for the many people they touch, now and over the course of their lifetime.

This report provides an empirical view of our systems-level impact – the real-world return on our investments in communities worldwide – highlighting new data measuring the astonishing economic impact of Smile Train's work over more than two decades.

We've always known that cleft treatment brings significant value to individuals and families as well as to communities and nations. When clefts are treated, people's welfare improves dramatically, and their ability to participate in their communities increases.

In fact, the data shows that **the surgeries we** sponsored have boosted economies by an estimated \$69 billion in countries around the world.

By supporting just one \$400 cleft surgery, as much as \$60,000 is put back into the local economy. This amounts to more than a 150x return on investment for a single surgery.

This report outlines how many surgeries we have supported and the years of lost welfare that they prevented, along with the economic impact of Smile Train's work. It also contains recommendations for policymakers on how to integrate cleft care into their health systems.

Of course, Smile Train's focus on comprehensive cleft care means that our work goes far beyond surgical treatments. Our programs treat the whole person, aiming to build confidence and provide opportunities to participate more fully in society. So, while it's impossible to fully quantify the lifealtering nature of our work, we feel confident in saying that, over the past quarter century, we've not only lit up the world with smiles, but also had a significant economic impact around the world.

And we're still just getting started. We are determined to continue our work until every person with a cleft has access to the healing care they deserve.

Susannah Schaefer

President & CEO, Smile Train



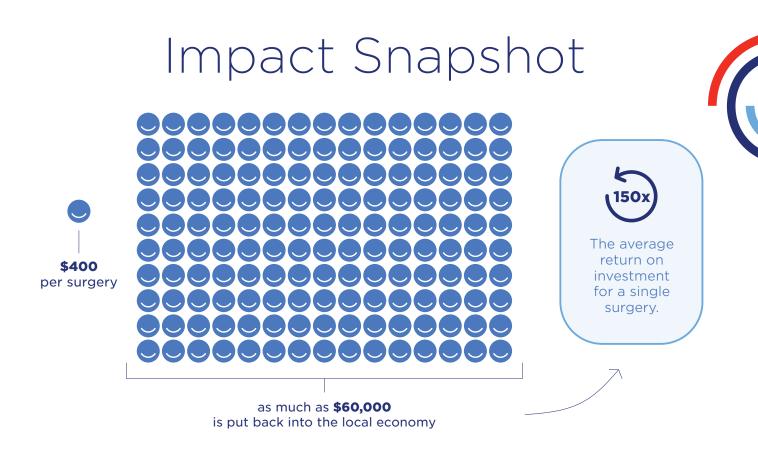
What are clefts?

Orofacial clefts occur when babies' lips or mouths do not form properly during pregnancy. These babies are born with an opening (cleft) in the upper lip or the roof of the mouth (the palate), or both.

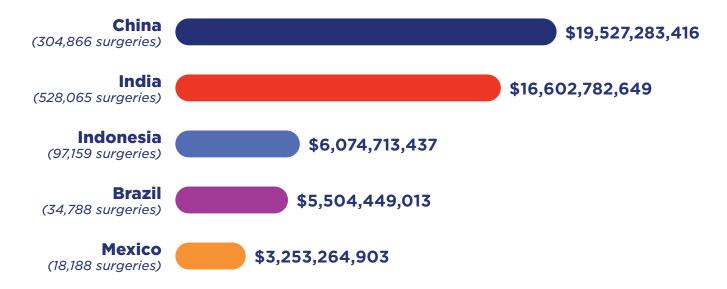
Clefts are one of the most common facial differences — 1 in 700 babies are born with a cleft lip and/or palate globally. An estimated 4.6 million

people around the world live with untreated or inadequately treated orofacial clefts, primarily in low-resource settings.ⁱⁱ

Beyond social stigma and ostracization, clefts can also lead to difficulties eating, breathing, hearing, and speaking. This condition can prevent people from being able to participate equally in society and reach their full potential. It also poses a burden on the healthcare system and on caregivers.



Economic benefit in top 5 countries





Study estimates **\$69 billion**in economic impact over 25 years

In collaboration with researchers, we've quantified the value of our work over the past quarter century.

In 2016, the British Medical Journal published an article about the societal gain provided by Smile Train's global surgical intervention program. Analyzing 11 years of data, the study showed that the care Smile Train supported around the world from 2001-2011 prevented significant lost welfare associated with clefts. The study calculated how many years each person would have lost to disability associated with their cleft without treatment and estimated our programs have returned around \$20 billion USD to our patients' national economies.

We've now updated this study to include another 11 years (2012-2023). The updated analysis estimates that **Smile Train has contributed a value of more than \$69 billion over the past 25 years.** Please see the table on the next page.

The table also shows how many primary surgeries Smile Train supported in selected countries between 2001 and 2023 as well as the disability-adjusted life years, or "DALYs," that these surgeries have averted. Having a cleft affects how people feel when they wake up and look in the mirror; whether they can go to school, make friends, or find work and just about every other aspect of day-to-day life – including overall health and life expectancy. DALYs turn these experiences into data, calculating the burden of each year a patient loses to their cleft. Our analysis



Fawad, Pakistan

What sets Smile Train apart?

How did we do it, and what sets us apart? We use a local, sustainable model, empowering medical practitioners with training, funding, and resources so they can provide children with free comprehensive cleft care. We have awarded more than \$38 million in education and training grants to medical professionals since we were founded, and we are about to provide our 100,000th training opportunity.

We also recognize the many challenges cleft patients face, so we enable comprehensive cleft care beyond surgery. These services include nutrition counseling, speech therapy, specialized orthodontics and dentistry, audiology and hearing care, and psychosocial support, all intended to ensure our patients' long-term, successful rehabilitation. Accessing cleft care can be logistically challenging and expensive, so we provide grants to help patients and their families overcome all obstacles to care. In the past 25 years, we've supported over 600,000 families with funding for costs related to accessing cleft care.

shows that Smile Train-supported cleft surgeries have given our patients a combined 12 million years of their lives back, as the table shows.

Among the countries where Smile Train has worked, India and Indonesia have shown some of the highest reductions in years lost to disability, translating into a massive economic impact: more than \$22 billion, collectively.

Smile Train-Sponsored Surgeries Prevent Years Lost to Disability 2001-2023				
Country	Primary Surgery Count	Years Lost to Disability Averted	Economic Benefit	
Afghanistan	11,268	78,848	\$101,914,674	
Argentina	4,732	45,596	\$886,703,920	
Armenia	17	135	\$778,070	
Azerbaijan	302	3,087	\$54,621,82	
Bangladesh	60,536	497,723	\$1,633,111,908	
Benin	810	6,864	\$14,668,337	
Bhutan	168	1,315	\$8,147,966	
Bolivia	1,775	16,074	\$66,479,342	
Brazil	34,788	321,056	\$5,504,449,013	
Bulgaria	1,364	13,254	\$241,639,796	
Burkina Faso	1,231	10,376	\$14,176,427	
Burundi	3,146	22,405	\$14,984,046	
Cambodia	11,499	91,792	\$224,918,755	
Cameroon	2,944	23,017	\$67,938,972	
Chile	3,917	39,626	\$743,509,834	
China	304,866	2,941,205	\$19,527,283,416	
Colombia	4,647	44,689	\$703,056,674	
Congo DR	6,216	49,473	\$40,645,350	
Côte D'Ivoire	2,027	15,326	\$56,952,862	
Djibouti	242	1,947	\$4,187,766	
Dominican Republic	278	2,217	\$43,422,249	
Ecuador	2,132	20,979	\$132,291,348	
Egypt	10,173	95,943	\$645,506,10	
El Salvador	269	2,580	\$11,538,14	
Ethiopia	35,503	246,971	\$377,951,137	
Gambia	638	6,047	\$7,937,61	
Georgia	242	2,302	\$13,114,290	
Ghana	2,293	17,563	\$67,148,852	
Guatemala	2,891	26,117	\$132,137,627	
Guinea	1,026	8,365	\$14,435,292	
Guyana	103	895	\$13,185,25	
Haiti	452	3,200	\$10,080,125	
Honduras	684	6,018	\$17,332,34	
India	528,065	4,356,674	\$16,602,782,649	
Indonesia	97,159	875,120	\$6,074,713,437	
Iraq	777	6,493	\$68,840,003	
Jordan	911	8,477	\$50,535,227	
Kazakhstan	296	2,631	\$57,248,562	
Kenya	10,958	87,909	\$238,976,18	
Lao PDR	2,356	19,191	\$80,394,232	
Lebanon	2,336	2,519	\$28,781,240	

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Smile Train-Spo	nsored Surgerie	s Prevent Years L	ost to Disability 2001-2023
Country	Primary Surgery Count	Years Lost to Disability Averted	Economic Benefit
Liberia	354	2,438	\$1,998,221
Madagascar	1,225	11,210	\$10,604,619
Malawi	1,151	7,447	\$10,485,002
Malaysia	13	122	\$3,354,586
Mali	2,262	18,555	\$27,812,098
Mauritania	630	4,971	\$18,278,872
Mexico	18,188	175,493	\$3,253,264,903
Moldova	28	327	\$1,073,331
Mongolia	2,145	19,412	\$124,143,089
Morocco	160	1,595	\$7,061,426
Mozambique	1,384	10,968	\$11,226,358
Nepal	21,316	178,024	\$366,663,290
Nicaragua	1,097	10,534	\$30,584,747
Niger	3,822	35,218	\$29,462,422
Nigeria	30,831	242,594	\$993,735,134
Pakistan	91,262	772,895	\$2,516,862,764
Panama	127	1,220	\$26,598,958
Peru	7,293	71,721	\$970,092,657
Philippines	67,114	598,576	\$3,158,899,131
Russian Federation	3,976	37,586	\$832,870,822
Rwanda	2,698	22,452	\$32,045,088
Senegal	1,204	10,125	\$22,604,107
Sierra Leone	239	1,747	\$2,376,866
Somalia	5,310	39,825	\$44,125,995
South Africa	25	158	\$3,787,696
Sri Lanka	3,341	31,101	\$195,223,197
Sudan	42	139	\$1,216,682
Tajikistan	82	741	\$1,884,780
Tanzania	11,531	91,180	\$175,226,216
Thailand	3,235	29,322	\$271,717,120
Togo	729	6,204	\$8,820,092
Uganda	14,885	109,731	\$201,966,578
Ukraine	1,106	9,420	\$66,611,465
Uzbekistan	4,601	39,906	\$181,759,222
Venezuela	351	3,508	\$64,950,095
Vietnam	23,189	213,228	\$1,049,285,852
Yemen	1,334	10,613	\$16,767,904
Zambia	3,138	21,635	\$61,007,206
Zimbabwe	755	4,886	\$9,301,753
TOTAL	1,486,131	12,868,842	\$69,404,271,201



Rajesh, India

Behind these numbers are the stories of individuals who have been transformed by Smile Train's life-altering work.



Aira, Indonesia





Aira, Indonesia

Aira, once shy and friendless, now star of the class

Aira was born with a cleft in a remote village in Indonesia. Her facial difference made life hard for the entire family. Aira choked on breastmilk and struggled to reach a healthy weight. When Aira began school, she struggled to speak in class. She was bullied and only had a few friends. Her parents recognized that her education and future were at risk due to her cleft. So, when they heard that Smile Train sponsored free cleft treatments at RS Muhammadiyah Palembang, their nearest hospital, they took Aira for a consultation.

Aira had always been shy and self-conscious. After her surgery, her confidence grew. She tried out her new smile and started playing with friends. She also started doing better in school. She says she wants to be a doctor so she can pay it forward.

Aira is one of millions of people who have new smiles, confidence, and eagerness to be part of their communities thanks to Smile Train and our local partners.

> Smile Train's two-millionth surgery took place recently in Indonesia.



What cleft care meant to one mother in India



Savitri and her husband, Babblu, of Bhopal, India, had never seen a cleft before their son Rajesh was born. No one in their family had. This is her family's story:

We worried that we would never be able to afford the treatment he needed and what that might mean for his future, so we immediately began making inquiries to see what was possible for families in our financial situation.

I have heard some heartbreaking stories of how other babies with clefts are rejected and worse, and I am very proud to say that did not happen in our family or in our neighborhood. Nearly all of them

saw Rajesh only as the perfect little baby he was, and we were especially relieved that his brothers and sister and their friends played with him like any other child. A few neighbors, unfortunately, did attribute his cleft to certain horrible superstitions, but Babblu and I were able to ignore them and focus on finding our son the care he needed.

When we learned that there was a cleft organization that runs on the gifts of strangers from around the world, we simply could not believe it. It is good to know that there are kind and generous people out there who are looking to take care of others in need.

You can't imagine the relief I felt when they wheeled Rajesh out and I saw his cleft was healed. My baby is now an active, rambunctious fourth grader who loves to participate in school activities and play with his older siblings. We are confident he will go on to succeed and live a good life, and we are endlessly thankful to Smile Train and their donors for their bigheartedness.



Rajesh, India



Smile Train Partner Surgeons, Paraguay ©AP | Jorge Saenz

It is essential to invest in healthcare workers

When it comes to increasing access to cleft surgery and cleft care, one of the largest hurdles is a widespread shortage of surgeons, anesthesiologists, and other critical cleft care providers. Research has shown that to achieve quality surgical coverage, there should be at least 20 surgeons, anesthesiologists, and obstetricians for every 100,000 people—but in many countries around the world, the actual number of surgeons and anesthesiologists fall far short of this ideal. In Tanzania, for example, there are only ~180 surgeons in the country—which means one surgeon is responsible for **around 295,400 people!** This is why investing in surgical providers and health workers is so essential, and why Smile Train supports education and training for health workers around the world.

Policy Recommendations

Supporting comprehensive cleft care confers significant value for countries around the world. Governments should engage civil society organizations, development partners, and the private sector to:

- Invest in surgical and anesthesia care as part
 of national health priorities, including the
 training and education of the surgical health
 work force and the development, funding, and
 implementation of national surgical, obstetric,
 anesthesia, and nursing plans to prioritize
 surgical care within national health and
 development priorities
- Invest in the distribution and on-going maintenance of critical patient monitoring equipment, including pulse oximetry and capnography.
- 3. Develop or revise newborn healthcare guidelines to include palate examination to ensure appropriate support with nutritional and surgical referral.
- 4. Develop national guidelines for cleft care training and optimal cleft treatment pathways and ensure cleft care training for maternal and newborn care providers is aligned.
- Put protocols in place for reporting cleft cases and ensure referrals to cleft care teams/ treatment centers.

- Establish and maintain population-based registries for reporting and counting clefts and make the data available for research, health promotion, and health systems improvement, and to help determine resource allocation.
- Educate communities about clefts, in collaboration with trusted community leaders, to combat the stigma and social exclusion of children with clefts and their families.
- 8. Build social protection programs to support mothers of children with clefts, who are more likely to be socially excluded and need counseling, guidance, social transfers, cash, vouchers, and food to support their livelihoods.
- Develop or revise national nutrition guidelines to consider the needs of all infants and young children and highlight adaptations to address the needs of the most vulnerable, including children with clefts.



Methodology

To calculate how many years of disability patients avoided by receiving cleft surgeries, researchers estimated the patients' lifespans using data from the World Health Organization. Then they calculated the burden of the disability caused by having a cleft for each patient using disability weights determined by the World Health Organization's Global Burden of Disease data. This burden is calculated for the years of life before receiving surgery. For Years Lost to Disability Averted, the new years of life after surgery with a much-reduced disability was calculated, which were then subtracted from the years the patient would have lived with the disability from an unrepaired cleft.

To assign an estimated economic value to the years of "disability-free" life lived by the patients, researchers used the United States Value of a Statistical Life, which was set by the U.S. court system at \$8,280,743. The researchers multiplied this amount with the ratio of [Gross National Income of the patient country] / [Gross National Income of the United States] for the year when the surgery took place. Then they converted that to a yearly amount and applied the value to the years of relatively disability-free life that the patient would live after their primary surgery.

The methodology also accounted for additional variables such as patient age and economic valuation changing from child economic value to adult economic value, at around 16 years of age. The authors applied a 3% discount to avoid any overestimation of values.

Conclusion

Over the past 25 years, we have seen the impact of supporting timely, affordable, high-quality surgical care for those who need it most. We've seen families restored. We've seen children return to school, build friendships, and speak with confidence for the first time. We've seen new futures and all the extraordinary ways that cleft care can change lives.

This data quantifies that reality, unequivocally demonstrating that surgical care is a sound investment and a cost-effective intervention that yields substantial economic returns for individuals, for nations, and for the global economy.



Malik, Egypt

Acknowledgements

This report results from collaboration amongst numerous writers, editors, and data analysts. Nicole Bell, Philip Carroll, Sarah Hamilton, and Erin Stieber provided overall direction for the report. Elizabeth Ransom of Persuasive PR, LLC drafted the report, distilled from a technical standpoint by Kathleen P. Hopf. Abel Smerica conducted data analysis on the economic impact of the surgeries Smile Train has supported over the past quarter century. He collaborated with the authors of a study that was published in the British Medical Journal in 2016 using the same methodology. Jeremy Friedman and Eric Solomon provided data on patient logistics and education and training. A.J. Hartman and Derek Kwait revised and edited the report. Dan Carriero, Wendrich Montero, and Alec Yang created the report design.

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The Organization of Economic Cooperation and Development defines gross national income (GNI), as gross domestic product, plus net receipts from abroad of compensation of employees, property income and net taxes less subsidies on production.



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