



ANNUAL REPORT 2020

Compassionate healthcare where it is needed most.



មណ្ឌលថែទាំសុខភាព កុមារចេនឡា
Chenla Children's
H E A L T H C A R E

ABOUT US

Our Mission

Chenla Children's Healthcare's mission is to deliver holistic pediatric care and clinical outreach to surrounding communities in Kratie province affected by poverty and disease. Working in direct partnership with the Ministry of Health (MoH) of the Royal Government of Cambodia, Chenla provides patient services to children in need, improves the infrastructure and health systems of the province, and improves health worker education in the region.

Our Model

Chenla Children's Healthcare is part of a public-private partnership and integrated within the Kratie Referral Hospital pediatric ward. We follow Cambodia's health equity fund system which provides free or discounted healthcare to eligible families. To ensure no child falls through the cracks, we have an onsite registration system for families who are too poor to pay but who have not yet received the card. Before Chenla was established, there was no safe and effective place for a family to turn for a severely ill or injured child. We provide care to a diverse community, including ethnic minorities, migrant workers, undocumented immigrants and many others in this poor, remote region. **No child is ever turned away.**



A MESSAGE FROM OUR TEAM

2020 was a year of growing trust and collaboration at Chenla Children's Healthcare. We saw dramatic changes to patient volumes due to the Covid-19 pandemic, resulting in unexpected challenges as well as successes that our team met with skill and unrelenting effort.

The need for lifesaving pediatric healthcare in eastern Cambodia grew exponentially in 2020, with Chenla's ICU almost twice as busy as usual and our neonatal unit 60% more busy. The pandemic caused many families to wait longer to seek care and the children came to Chenla later in their stage of illness. Additionally, the excellent care that Chenla provides and the trust in what we do continues to draw a growing number of families from across the region for help. We remain the only facility in the region able to provide ICU-level care for children and infants.

Chenla's collaborative public-private partnership model has proven itself highly efficient and effective. Our main challenge is that the volume of critically ill or injured patients from the surrounding communities and provinces continues to rise. Strategically replicating Chenla's model in small ways in surrounding provinces is one part of our vision going forward and will help alleviate some of the pressure at Chenla's doors. Maintaining a strong base hospital in Kratie will always remain paramount. Improvements in Kratie are needed and will be made depending on financial support found in 2021.

The continued support and commitment of our partners and donors have saved countless lives and changed many more. All of this is made possible because of you and the dedicated team on the ground in eastern Cambodia

With gratitude,
The Chenla Team



2020 YEAR IN REVIEW

Chenla Children's Healthcare runs five separate programs within Kratie Referral Hospital. Each program was formed to address particular pediatric healthcare challenges in Cambodia and are run and managed by highly-skilled Cambodian leaders.

- Outpatient
- Inpatient
- Neonatal ICU
- Pediatric ICU
- Outreach

We experienced many firsts at Chenla in 2020, despite having opened our doors 3 ½ years ago. Covid-19 meant that our usually full and growing outpatient and inpatient departments saw sudden drops in admission while our more

labor intensive and costly NICU and ICU departments saw the largest increase in admissions we have seen to date. In total Chenla provided high quality compassionate care for 12,888 outpatients, 2,188 inpatients, 312 ICU patients and 587 neonatal ICU patients in 2020.

We saw a decrease in patients seeking **outpatient** and **inpatient** care for the first time since we opened our doors. This appears to be part of a global trend of reductions in pediatric outpatient and inpatient visits as people attempt to avoid exposure to Covid-19. We are preparing for, and looking forward to, a return to normal admission rates to ensure children are accessing routine, life-saving health checks as well receiving timely treatment for non-emergency illness and injury.

Our **NICU** and **ICU** have been at or beyond capacity during the pandemic. Most of these babies can be saved with efficient, proper and fairly simple neonatal care. Neonatal deaths in eastern Cambodia remain startlingly high with up to 1 in 15 dying in some regions. Yet, the Kratie region has made remarkable strides forwards since the opening of Chenla. Over 1,700 neonates with immediate life threatening conditions have been directly saved.



Chenla's educational and training efforts have undoubtedly saved many more. Neonatal patients come largely from Kratie province but also from the surrounding provinces Mondulkiri, Ratanakiri and Steung Treng. A disproportionate number of patients are from the Kuy, Bnong, Cham and other ethnic groups rather than the Khmer, Cambodia's main ethnic group. These marginalized groups have long had much poorer health outcomes and depend on Chenla for their children's wellbeing and safety. We remain highly thankful to our partners who make this happen.

Due to the pandemic, we suspended our **outreach** program in 2020 for the safety of our staff and community. The outreach program was established in 2018 to efficiently provide treatment education and prevention in some of our poorest and remote communities. To date, over 40,000 children and families have received Chenla's outreach services thanks to our partnership and overlapping goals with Kinchan



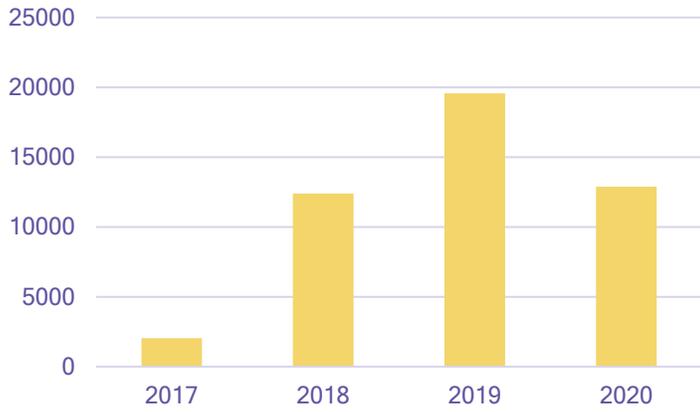
Stiftung Foundation. Chenla's outreach activities remain essential for education of the community and increased utilization of Chenla's resources by those who need them most.

A small but important addition to Chenla's work in 2020 was the adoption of the Ministry of Health's **pediatric HIV program**. Due to the pandemic, Chenla now cares for all HIV positive children in the region. Previously, these children were cared for in a "vertical" program run by MoH. However, we began to see pediatric HIV patients who were declining in health. We approached the provincial health director to

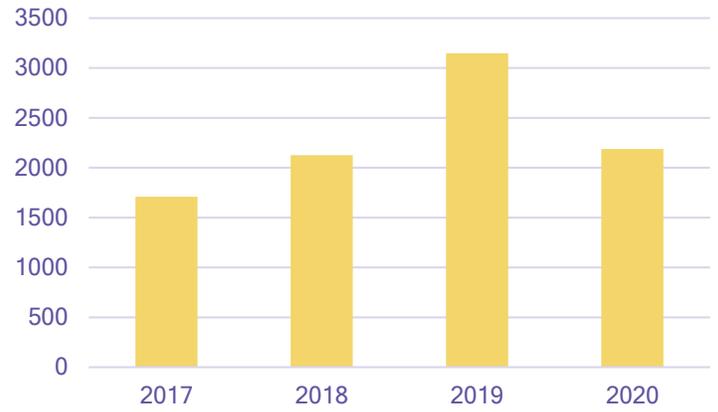


see if there was a way Chenla could help and it was decided that we should assume these patient's care. It appears that stresses to the system caused by the pandemic were causing poorer health outcomes. We now see these patients (in conjunction with the vertical program healthcare workers) at Chenla. We are very encouraged and believe that our engagement with these young patients will result in much improved health and longevity for them.

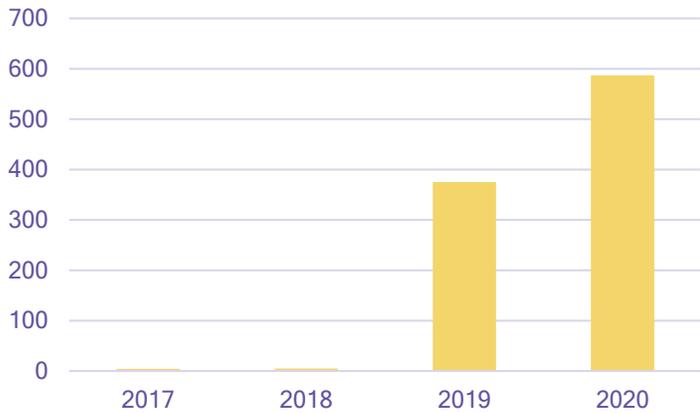
Outpatient Volume



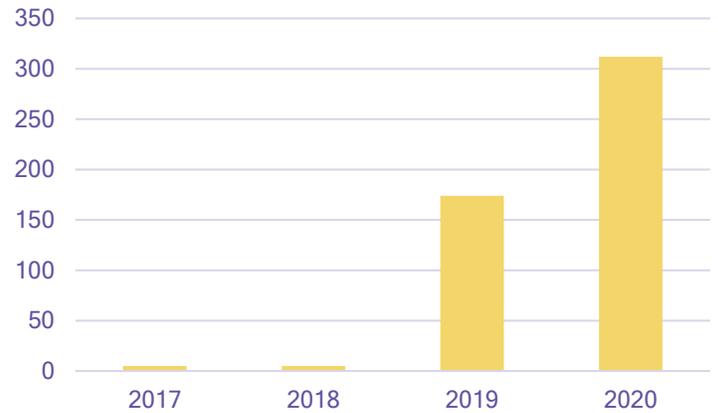
Inpatient Volume



NICU Volume



ICU Volume



Snapshot : Implementation of bubble CPAP in 2020 and beyond

In response to the rapid increase in admissions of neonates in respiratory distress and limited CPAP machines, in 2020 we implemented the use of disposable bubble CPAP, made by the staff as needed. They have been crucial for our ability to continue to admit these vulnerable babies who are not able to breath on their own. This past year we had just 8 CPAP machines in our NICU while the need was often more than double that.

Dr. Andrew Wu of the combined internal medicine and pediatrics program at the University of Minnesota, under the guidance of Professor Tina Slusher, developed the new innovative CPAP technique alongside the Chenla staff with Dr. Luch Sreyleak leading the effort on the ground.

In collaboration, the team is working on a non-inferiority study to help assess its effectiveness compared to more costly machine technology. If proven effective, the modified bubble CPAP will have a profound significance on how

limited monetary resources in places like eastern Cambodia can be most effectively used.

Bubble CPAP



CPAP Machine



“I’m proud to be part of Chenla and in particular its Neonatal ICU as we provide urgently needed care never before available in this region of Cambodia.”

Ly Sollihak, Director of Nursing

PATIENT STORY

Sineath's mother Vy was just 7 months pregnant when she went into labor in late February, 10 weeks early. She and her husband Ouch live in rural Mondulkiri province. Despite the distance, they made the 2.5-hour motorbike journey to Kratie Regional Hospital while Vy was in labor because they knew that Chenla Children's Healthcare would be able to care for their premature newborn, while no such services exist in Mondulkiri.

Chenla doctors and nurses were in the delivery room upon Sineath's birth and provided immediate neonatal resuscitation as his lungs were not developed enough to breath on his own. Quickly, Sineath was transferred to Chenla's NICU where he is gaining weight, breathing well and responding to his father's touch. Without Chenla, premature babies like Sineath are unlikely to survive after birth, with preterm birth complications the leading cause of death among neonates. Most of these babies can be saved with efficient, proper, and fairly simple neonatal care.



FINANCIAL STATEMENTS

Revenue and Expense 2020

Funds in bank January 1 st 2020	\$250,008.00
Donor funds received January 1 st – December 31 st 2020	\$542,792.95
Capital expenditures paid during 2020	\$16,435.00
Running costs paid during the year 2020	\$651,889.17
Total expenses during the year 2020	\$668,324.17
Accounts payable Jan 15 th 2021	\$2,758.00
Avg. monthly running costs during year 2020	\$55,693.00
Avg. monthly running costs during year 2019	\$50,794.00
Variance in monthly running costs	\$4,900.00
Donor funds pledged from year end's campaign but not yet received	\$36,000
Donor funds from year end's campaign received in early Jan 2021	\$112,732
Funds in bank Jan 15 th 2021	\$237,208.78

Projected Vs Actual Costs 2020

Local Staff Costs	\$372,750
Expatriate Staff Costs (Drs. Bill & Lori)	\$32,000
Overheads	\$32,000
Other Support	\$0
Training	\$4,000
Aid (Emergency/ Commodity)	\$0
Construction/Renovation	\$5,000
Drugs/Medical	\$88,500
Equipment	\$34,000
Transport	\$8,000
Operating Costs	\$12,000
Monitoring	\$2,000
Promotion	\$2,000
Reserve Funds	6 Months
Total	\$592,250
Actual	\$668,324
Difference	\$76,074

"Drs. Bill and Lori's venture attracts people who truly want to provide great care and it is an environment that helps them thrive in doing so."

Allison Kean MBA



THANK YOU

Our wonderful community of committed partners and donors make the continuation of our work possible. We are particularly thankful for the generous end-of-year matching gift of \$100,592 from an anonymous donor, matched by \$54,000 in other contributions which helped cover the unexpected costs involved in treating the surge of patients in our ICU and NICU.

Government

Kratie Provincial Governor His Excellency Va Than and Her Excellency Hoeng Nary
Kratie Referral Hospital
Ministry of Foreign Affairs & International Cooperation
Ministry of Health
Ministry of Social Affairs, Veterans & Youth Rehabilitation

Foundations & Trusts

Anonymous
Cubit Family Foundation
Daniel Family Foundation
Foundation for International Development/Relief
Franks Family Foundation
Handa Foundation
Hrothgar
Kinchan Stiftung
Morris Family Foundation
Partners for Equity
Planet Wheeler Foundation
Ptarmigan Foundation
Ripple Foundation

Corporate

Albizia Capital
Avante Health Solutions
Clarius Ultrasound Company
C-Plus Tea & Coffee Kratie
La Relais de Chhlong
Medical Technology Transfer & Services
Mercy Medical Center
Petes's Pizza and Sorya Kayaking
Praser Clinic and Maternity
Preabsor Clinic and Maternity

Academic & Organizations

All Ears Cambodia
Angelwish
Children of Cambodia
National University Hospital Singapore, Department of Pediatrics
St. Dominic's Exercise Group, Melbourne
University of Minnesota, Department of Pediatrics

Individuals & Families

Dr. Elizabeth Ang
Anonymous
Paul and Rebecca Armerding
Dr. Eric Baker

Dr. Shannon Becht
Aneisa Blair
Susan Housworth Bolton
Matt Bording
Ank Boudrie
Eric Braun
Dr. Desmond Brown
Suzanne Brown
Dr. David and Gayle Butler
Stuart and Angela Cartledge
Bruce and Sharon Cheser
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Sarah Crabtree
David Cremisi
Dr. Frances Daily
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Dale and Suzanne Davis
Pat and Michelle Dunn
Stephanie Eisenback
Greg and Elizabeth Evans
Dr. Jennifer Walden-Fain and Mr. Mitch Fain
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Dr. Kevin Gandhi
Rhian Gastineau
Hartmut and Ako Giesecke
Ulla Giesecke
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Dr. Jameel Winter
Dr. Andrew Wu
Dr. Puthy Ya



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