



LARC Out Loud: Future Planning

Sainvil M, MD¹; Altenor K, MD², The Hoekelman Center

¹University of Rochester Medical Center, ²Kay Mackenson Clinic, Haiti ³





Introduction

Type 1 Diabetes - Haiti and low-income countries:

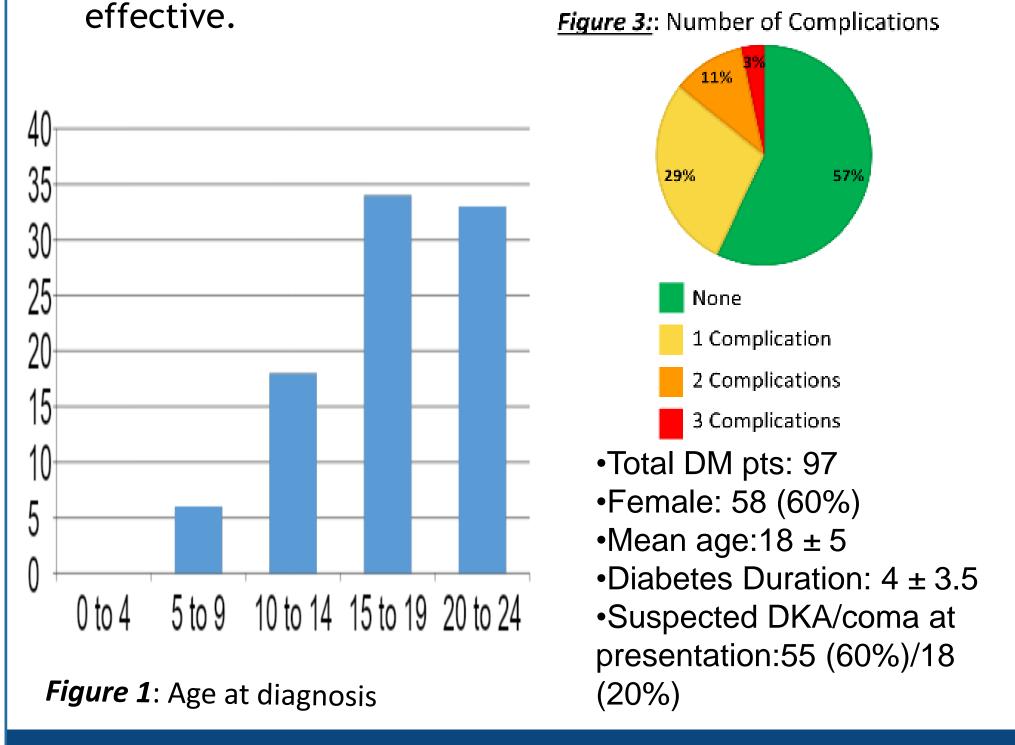
- The Kay Mackenson Center aims to provide high quality care to children with chronic diseases offering free long-term disease management and monitoring that is setting-adapted and family-centered. Our goal is for our patients to lead healthy, happy lives, and to reduce morbidity and mortality from the chronic conditions affecting them
- Type 1 diabetes is one of the most common chronic diseases in childhood. It is a life-long condition with high morbidity and mortality if left untreated.
- According to WHO, In 2016, an estimated 21 million girls aged 15-19 years in developing regions became pregnant, half are unintended and approximately 12 million gave birth.
- Early pregnancies among adolescents have major health and social consequences including higher risks of eclampsia, systemic infections, social consequences such as stigma, rejection or violence
- Youth with diabetes in low-income countries have a high risk of mortality, often present with more severe symptoms, such as diabetic ketoacidosis, and have rates of complications rarely seen in high resources settings. (2-3)

Studies have shown only 32% of teens ad 18% of youth >19 years with type I diabetes attain recommended glycemic control (substantially lower compared to adults (56%)

Fewer than 25% of adolescents with DM were aware of

Promotion of contraceptive use to address unintended pregnancies among adolescents has been shown to be

maternal or fetal risk of poor glycemic control in

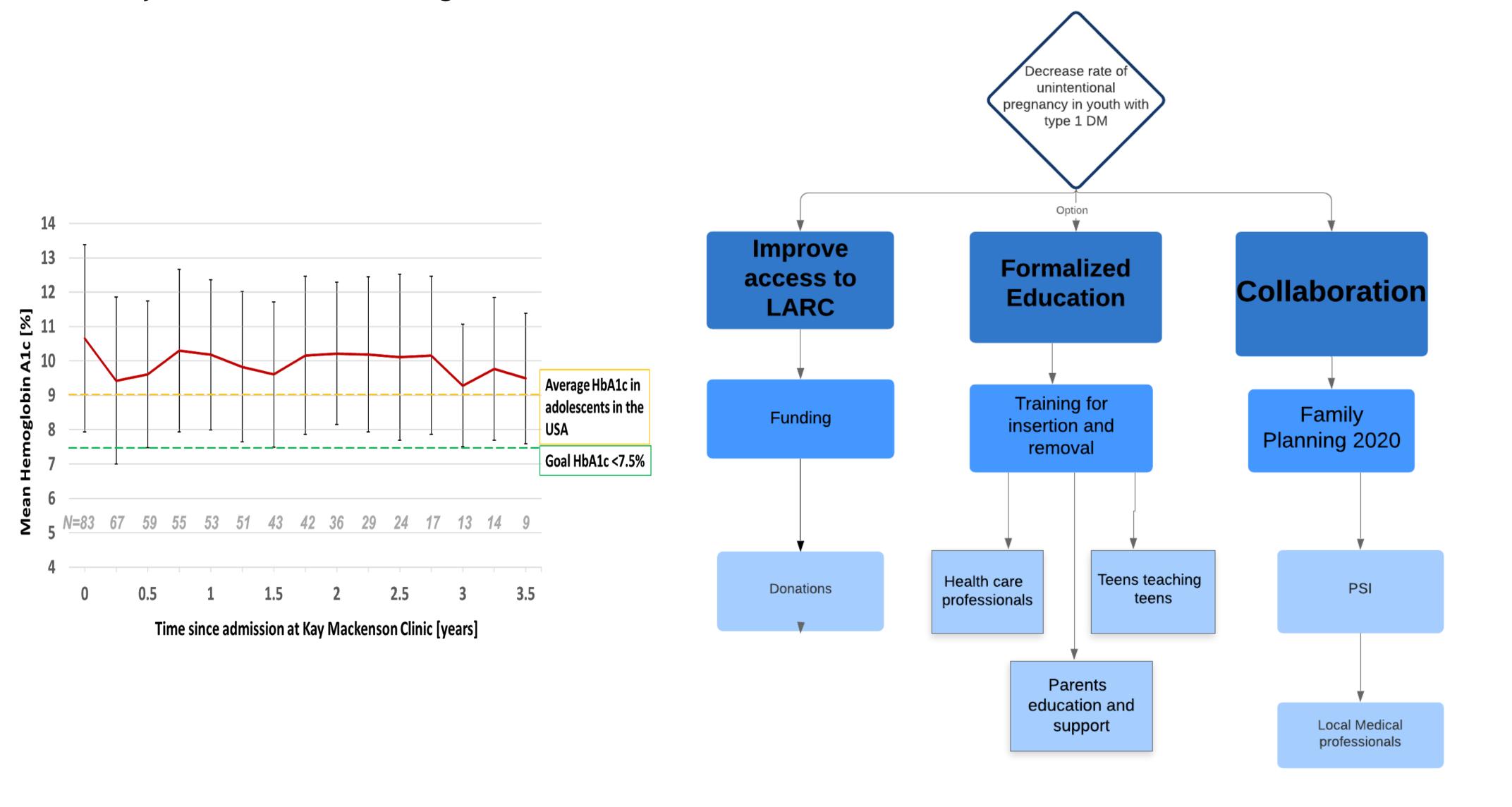


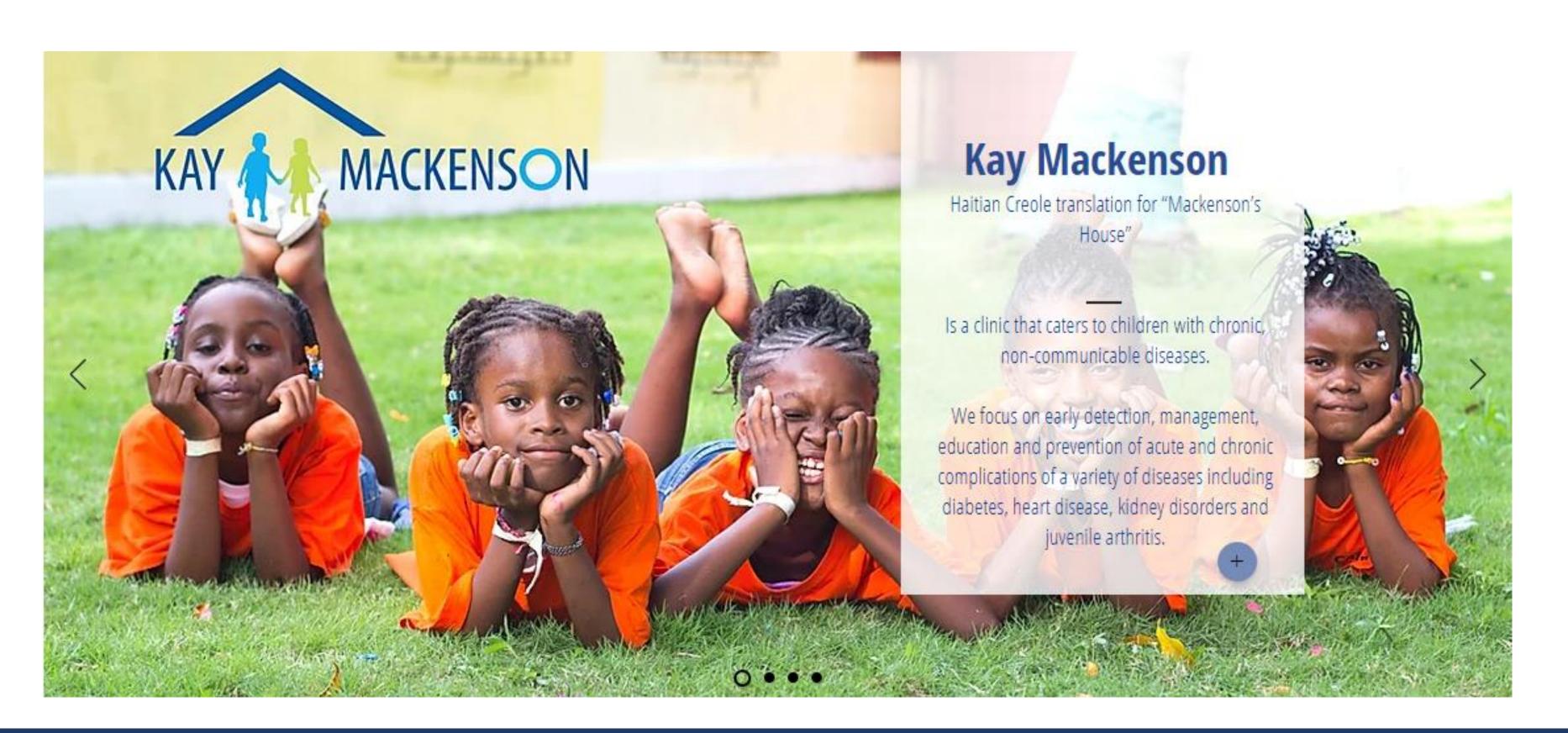
Objectives

- Reduced unintended teen pregnancy at Kay Mackenson Clinic by 75% in 5 years.
- To improve the acceptability, accessibility and affordability of this contraceptive method in lowresource settings.

Method

- Identify partners in the local Haiti community who are promoting effective forms of birth control
- Educate providers at Kay Mackenson on the insertion and removal of Long Acting Reversible Contraception (LARC)
- Identify sustainable funding source for effective birth control in Haiti





Conclusion

By partnering Kay Mackenson providers with other local champions of effective forms of birth control, teens who attend the Kay Mackenson clinic with Type 1 Diabetes will be more informed to plan their families which will reduce maternal mortality and rates of diabetic ketoacidosis.

References

- International Diabetes Federation. IDF World Diabetes Atlas 2015 [Internet]. 7th ed. Brussels, Belgium: International Diabetes Federation; 2015. Available from: http://www.diabetesatlas.org.
- Marshall SL, Edidin D, Sharma V, Ogle G, Arena VC, Orchard T. Current clinical status, glucose control, and complication rates of children and youth with type 1 diabetes in Rwanda. *Pediatr Diabetes*. 2013;14(3):217-226.
- Piloya-Were T et al. Childhood diabetes in Africa. *Curr Opin Endocrinol Diabetes Obes*. 2016;23(4):306-311.
- Osei K et al. . Diabetes in Africa. Pathogenesis of type 1 and type
 2 diabetes mellitus in sub-Saharan Africa: implications for
 transitional populations. J Cardiovasc Risk. 2003;10(2):85-96
- Marshall SL et al. Glucose control in Rwandan youth with type 1 diabetes following establishment of systematic, HbA1c based, care and education. *Diabetes Res Clin Pract*. 2015;107(1):113-122.

•<u>Clin Pediatr (Phila).</u> 2019 Jan;58(1):24-33. doi:

10.1177/0009922818805234. Epub 2018 Oct 13.

•Darroch J, Woog V, Bankola A, Ashford L. Adding it up: costs and benefits of meeting the contraceptive needs of adolescents. New York: Guttmacher Institute; 2016.

•Girlhood, not motherhood: preventing adolescent pregnancy. New York: United Nations Population Fund; 2015.

•Ganchimeg T, Ota E, Morisaki N, Laopaiboon M, Lumbiganon P, Zhang J, et al. Pregnancy and childbirth outcomes among adolescent mothers: a World Health Organization multicountry study. BJOG. 2014;121(Suppl. 1):40-48

•https://apps.who.int/iris/bitstream/handle/10665/275374/978924 1514606-eng.pdf?ua=1

•http://familyplanning2020.org/

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