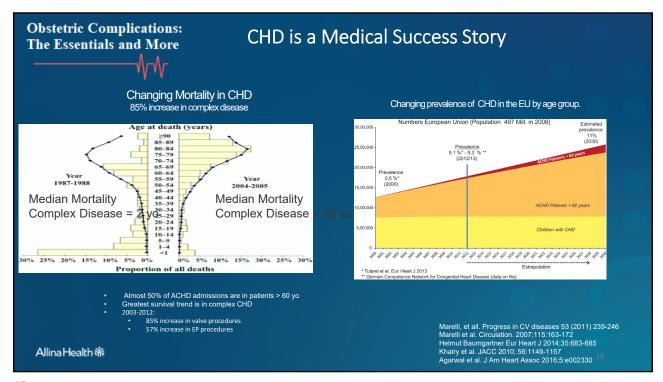
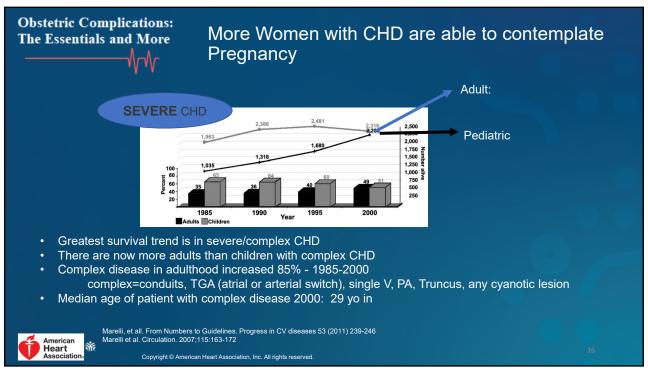


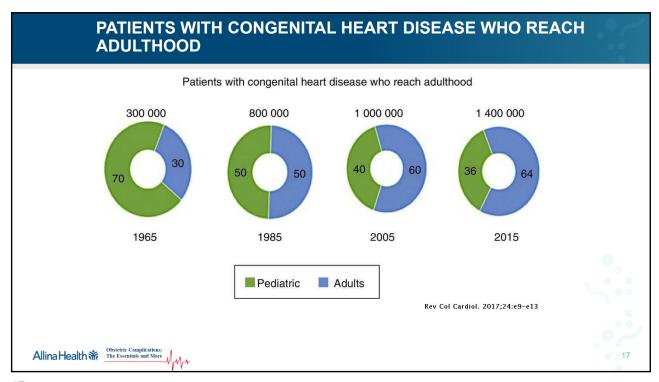


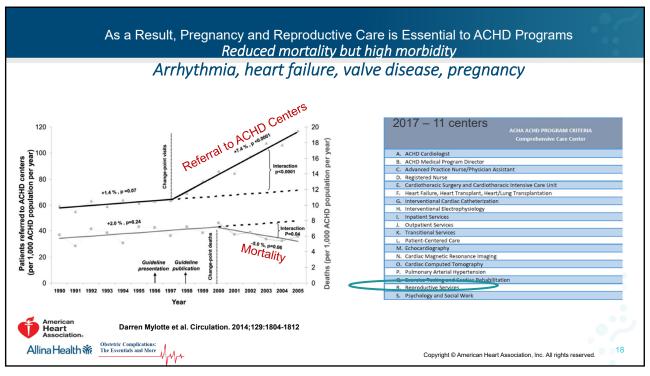
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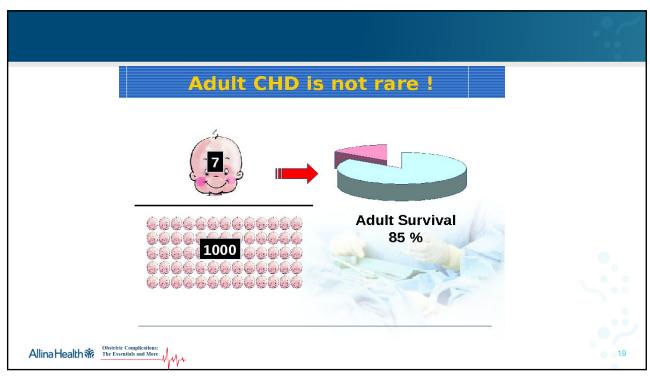


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## MORE CHILDREN WITH CHD NOW SURVIVE INTO ADULTHOOD

- · -Thanks to advances in surgery and medical care
- -Estimated 1% of women giving birth in the US have congenital heart disease
  - CHD accounts for about 75% of cases of heart disease in pregnancy
     Siu SC, Sermer M, Harrison DA, et al. Risk and predictors for pregnancy-related complications in women with heart disease. Circulation 1997; 96(9):2769-2794.
- Between 2000 and 2010, prevalence of maternal CHD increased from 6.4-9.0/10,000 hospitalizations for childbirth
- ACHD ranges in severity
  - Simple abnormalities: ASD (17%)/VSD (14%)
  - Moderate abnormalities: Tetralogy of Fallot repaired (11%)
  - Severe abnormalities: Transposition of great arteries (TGÁ) [5%] and Ebstein anomaly (2%)

Verheugt CL, Uiterwaal CS, van der Velde ET, et al. Mortality in adult congenital heart disease. Eur Heart J 2010; 31(10):1220-1229.

Gilboa SM, Devine OJ, Kucik JE, et al. Congenital heart defects in the United States: estimating the magnitude of the affected population in 2010. Circulation 2016; 134(2): 101-109 doi: 10.1161/CIRCULATIONAHA.115.019307

Thompson JL, Kuklina EV, Bateman BT, Callaghan WM, James AH, Grotegut CA. Medical and obstetric outcomes among pregnant women with congenital heart disease. Obstet Gynecol 2015; 126(2):346-354

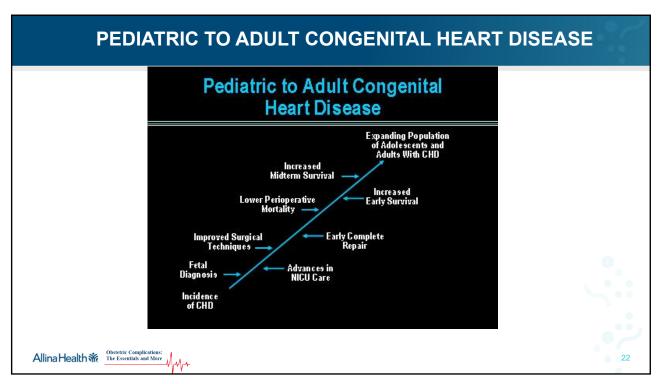
Hoffman JI, Kaplan S. The incidence of congenital heart disease. J Am Coll Cardiol 2002; 39(12): 1890-1900.

Allina Health Obstetric Complications:
The Essentials and More

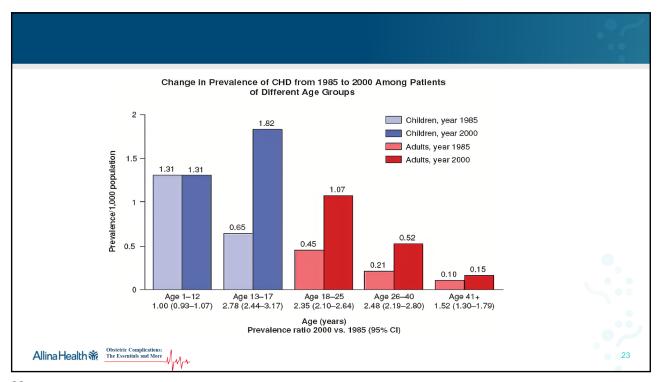
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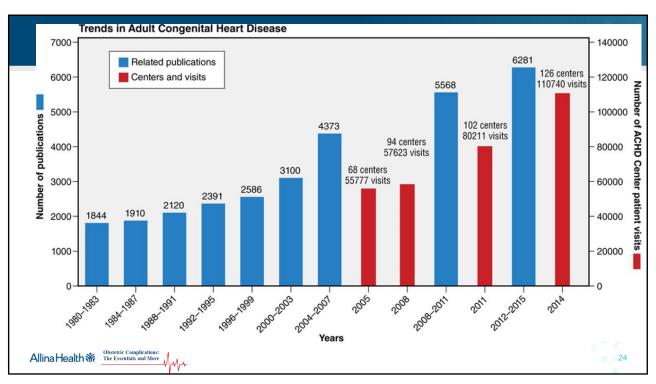
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Cardiac lesion	RR in siblings with unaffected parents		RR in children of affected parents		-
	1 child affected	≥ 2 children affected	Mother affected	Father affected	
VSD	3%	10%	9%–10%	2%-3%	
ASD	2%-3%	8%	6%	1%-2%	
TOF	2%-3%	8%	2%-5%	1%-2%	
СоА	2%	6%	4%	2%–3%	
AS	2%	6%	12%–20%	5%	
PS	2%	6%	6%–7%	2%	
HLHS	3%	10%	nr	nr	
AVSD	3%-4%	nr	10%–14%	1%	
PA	1%	3%	nr	nr	
TA	1%	3%	nr	nr	
TGA	1%–2%	5%	nr	nr	
L-TGA	5%-6%	nr	nr	nr	
Ebstein anomaly	1%	3%	6%	nr	
Heterotaxy	5%-6%	nr	nr	nr	
Overall	1%-6%	3%–10%	2%–20%	1%-5%	
syndrome. L-TGA = congenita	lly corrected transposition of t	oventricular septal defect. CoA = c he great arteries. nr = not reporte eries. TOF = tetralogy of Fallot. VS	d. PA = pulmonary atresia. PS		



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