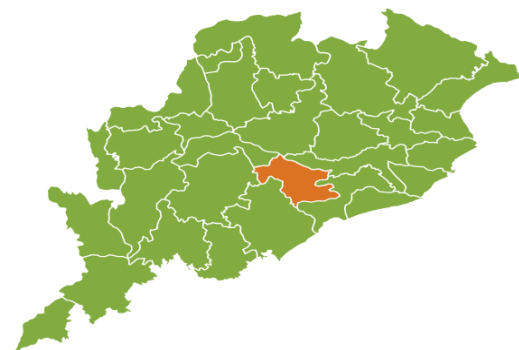
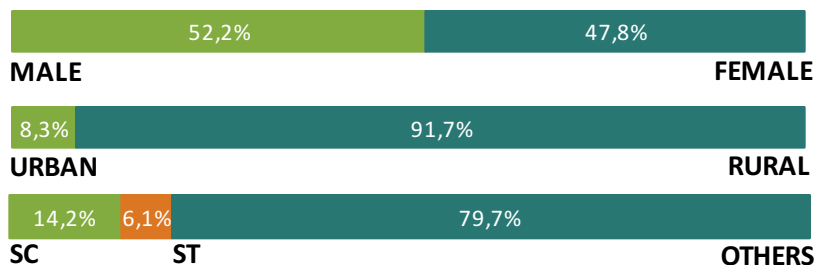


DISTRICT NUTRITION PROFILE

Nayagarh, Odisha

DISTRICT DEMOGRAPHIC PROFILE

Total Population **9,62,789** (In Lakhs)



Nayagarh ranks **373rd**
amongst **599** districts in India
(District Development Index)¹³

THE STATE OF NUTRITION IN NAYAGARH

31.0%

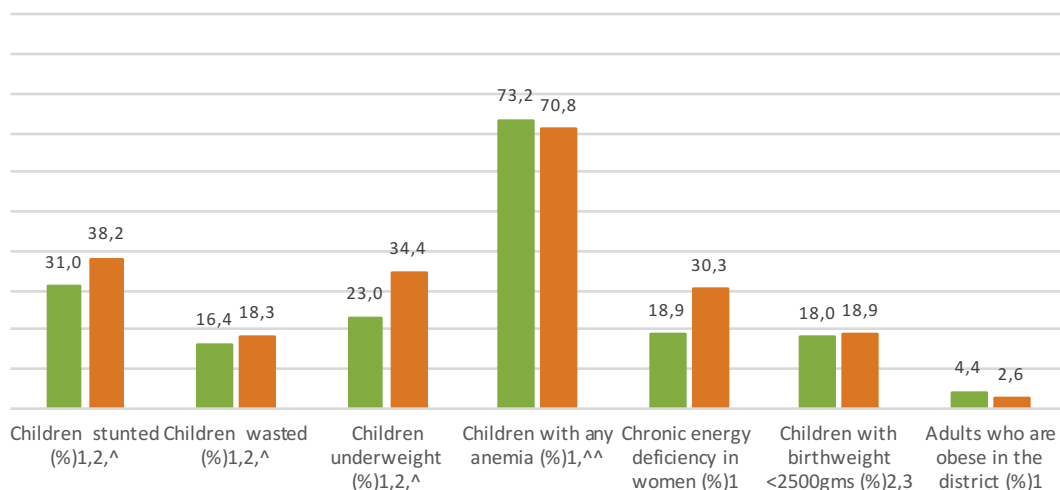
**CHILDREN
STUNTED¹**

16.4%

**CHILDREN
WASTED¹**

23.0%

**CHILDREN
UNDERWEIGHT¹**



■ Nayagarh ■ Odisha

[^]Children aged <5 years; ^{^^}Children aged 0-59 months
Source: Data source provided on Page 4

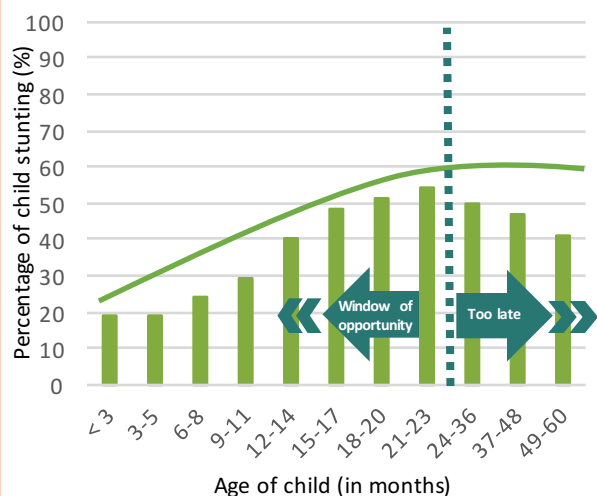
CHANGES OVER TIME

THE PREVALENCE OF
UNDERWEIGHT HAS
INCREASED IN THE
DISTRICT BETWEEN
2002 AND 2014

	Odisha (Children aged <5 years)		Nayagarh (Children aged <5 years)	
	2005-06 (NFHS-3)	2013-14 (RSOC)	2002-04 (DLHS-2)	2014 (CAB)
Stunting	42.4%	38.2%	No Data	31.0%
Wasting	20.0%	18.3%	No Data	16.4%
Underweight	39.5%	34.4%	10.0%	23.0%

HOW CAN NUTRITION IMPROVE?

The most crucial period for child nutrition is from pre-pregnancy to the second year of life²



WHAT FACTORS CAUSE UNDERNUTRITION? ⁴

Optimum fetal and child nutrition and development

IMMEDIATE CAUSES

Breastfeeding, nutrient rich foods, and eating routine
Feeding and caregiving practices, parenting stimulation
Low burden of infectious diseases

UNDERLYING CAUSES

Food security: availability, economic access and use of food
Feeding and caregiving resources (maternal, household and community level)
Access to and use of health services, a safe and hygienic environment

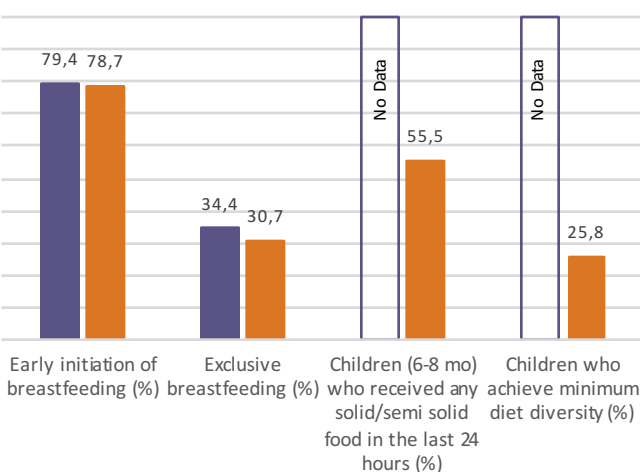
BASIC CAUSES

Knowledge and evidence
Politics and governance
Leadership, capacity and financial resources
Social, economic, political, and environmental context (national and global)

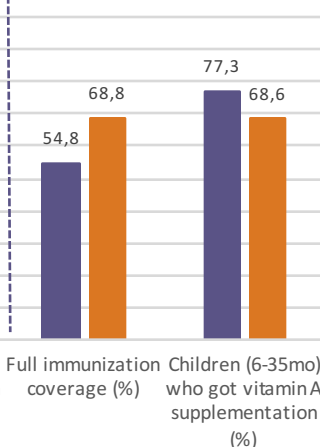
Child undernutrition is caused by inadequacies in **food, health and care** for infants and young children, especially in the first two years of life (**immediate causes**). Inadequate food, health and care arise from food insecurity, unsanitary living conditions, low status of women, and poor health care (**underlying causes**). These are, in turn, caused by social inequity, economic challenges, poor political will and leadership to address these causes (**basic causes**). Interventions to address undernutrition must address these multiple causes of undernutrition and do so in an equitable manner.

IMMEDIATE CAUSES OF UNDERNUTRITION

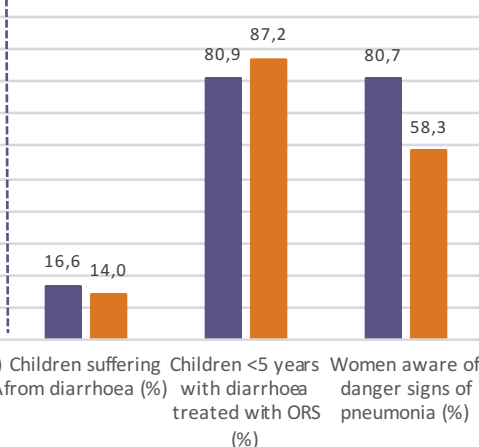
INFANT AND YOUNG CHILD FEEDING^{2,3}



IMMUNIZATION & SUPPLEMENTATION³



DISEASE BURDEN³



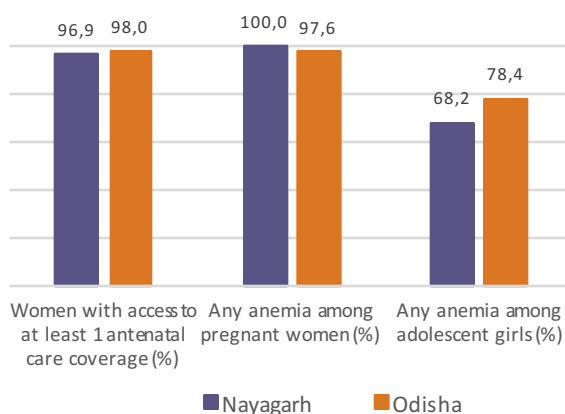
Areas for action:

- Improvements required in rates of exclusive breastfeeding and immunization coverage
- No district level data available on children's diets
- Alarming levels of anaemia among pregnant women and adolescent girls

Data challenges:

- Out-dated data; poor availability of data on key immediate determinants of under nutrition from national surveys
- Where data are available, indicator definitions are non-standardized and often differ from World Health Organisation recommendations

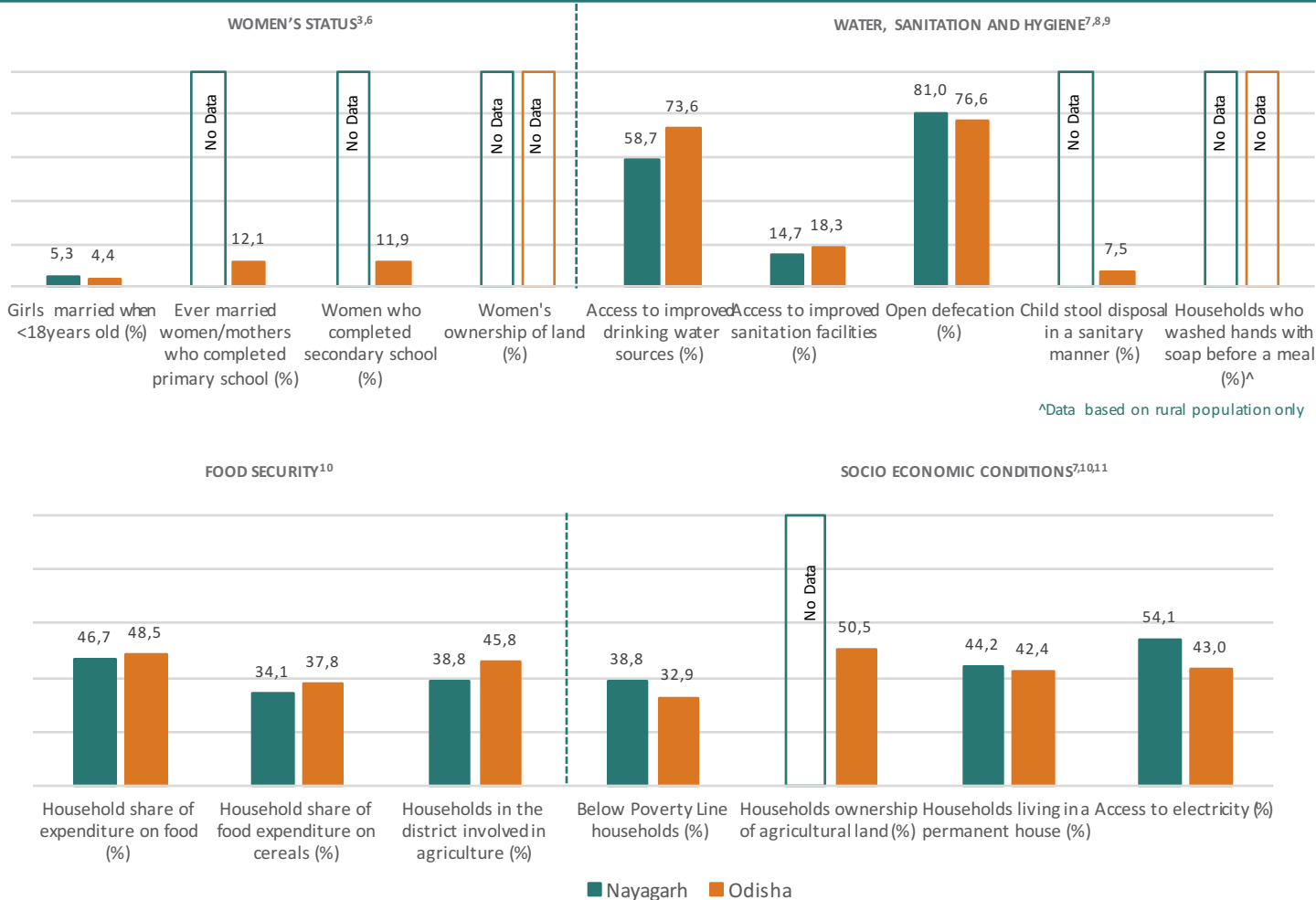
ADOLESCENT & MATERNAL HEALTH^{1,3,5}



■ Nayagarh

■ Odisha

UNDERLYING CAUSES OF UNDERNUTRITION



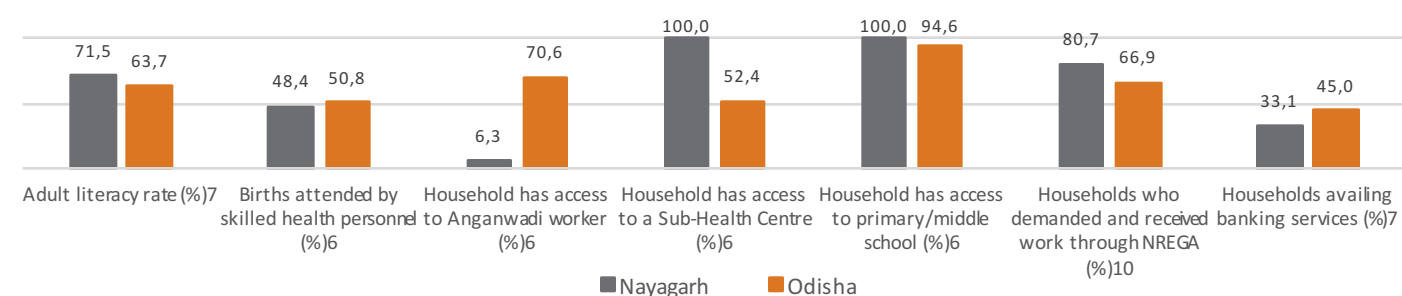
Areas for immediate action:

- Very high rates of open defecation; critical need to increase access to improved sanitation facilities and drinking water sources
- Poor rate of households living in a permanent house and with access to electricity

Data challenges:

- Difficult to compare indicators of water, sanitation and hygiene over time as census data do not provide data on child stool disposal or on hand washing
- No data available for several indicators of women's status

BASIC CAUSES OF UNDERNUTRITION



- Per capita gross district domestic product of Nayagarh ranked **28th** amongst 30 districts of Odisha ¹²
- Poor access to skilled birth attendants and Anganwadi workers
- Improvements can be made on households availing of banking services
- No data available on indicators of governance and political will to address nutrition

WHAT WILL IT TAKE TO IMPROVE NUTRITION IN NAYAGARH?



Source: POSHAN/IFPRI-NDO

Possible district-level actions to support nutrition:

Data sources

1. Census of India. 2014. *Clinical, Anthropometric & Bio-chemical (CAB) survey*. <http://www.censusindia.gov.in/2011census/hh-series/HH-2/Odisha%20CAB%20Sample%20Characteristics%202014.pdf>
2. UNICEF. 2013-2014. *Rapid Survey on Children (RSOC)*. http://wcd.nic.in/RSOC/21_RSOC_Odisha.pdf
3. Census of India. 2012-2013. *Annual Health Survey*. http://www.censusindia.gov.in/vital_statistics/AHSBulletins/AHS_Bulletin_2012_13/Odisha/Odisha.pdf
4. Robert E Black, Cesar G Victora, Susan P Walker, Zulfiqar A Bhutta, Parul Christian, Mercedes de Onís, Majid Ezzati, Sally Grantham-McGregor, Joanne Katz, Reynaldo Martorell, Ricardo Uauy, and the Maternal and Child Nutrition Study Group. 2013. "Maternal and Child Undernutrition and Overweight in Low-Income and Middle-Income Countries". *The Lancet* 382 (9890), 427-451
5. *District Level Household Survey on Reproductive and Child Health (DLHS-2), 2002-04, India*. International Institute for Population Studies. (IIPS). 2006. *District Level Household Survey on Reproductive and Child Health (DLHS-2), 2002-04, India: Nutritional Status of Children and Prevalence of Anemia among Children, Adolescent Girls and Pregnant Women*. Mumbai: IIPS. October 28, 2015, www.rchiips.org/pdf/rch2/National_Nutrition_Report_RCH-II.pdf
6. International Institute for Population Studies (IIPS). 2010. *District Level Household Survey and Facility Survey (DLHS-3), 2007-08, India, Odisha*. Mumbai: IIPS. Accessed October 28, 2015, www.rchiips.org/pdf/rch3/report/UP.pdf
7. Census of India. 2011. *Houselisting and Housing Census Data*. Accessed October 28, 2015, www.censusindia.gov.in/2011census/hlo/HLO_Tables.html
8. *National Family Health Survey (NFHS-3), 2005-06, India*. Mumbai: International Institute for Population Studies.
9. HUNGaMA: *Fighting Hunger & Malnutrition : the HUNGaMA Survey Report*. 2011. Naandi Foundation.
10. Author's estimates based on *Household Consumption Expenditure, National Sample Survey Office (NSSO) 68th Round, 2011-12*. Ministry of Statistics and Program Implementation. Government of India.
11. Planning Commission. 2013. *Press note on poverty estimates, 2011-12*. Government of India. Accessed October 28, 2015, http://planningcommission.nic.in/news/pre_pov2307.pdf
12. Government of Odisha. *Economic Survey (2014-15)*. Accessed October 28, 2015, http://www.odisha.gov.in/pc/Download/Economic_Survey_2014-15.pdf
13. Us-India Policy Institute. 2015. *District Development and Diversity Index*. Accessed October 28, 2015, <http://www.usindiapolicy.org/updates/general-news/225-district-development-and-diversity-index-report>