

SWABHIMAAN IMPACT EVALUATION (2016-2021) DISSEMINATION, 2022

Anthropometric Measurements and Nutritional Status

Dr. Sarang Pedgaonkar

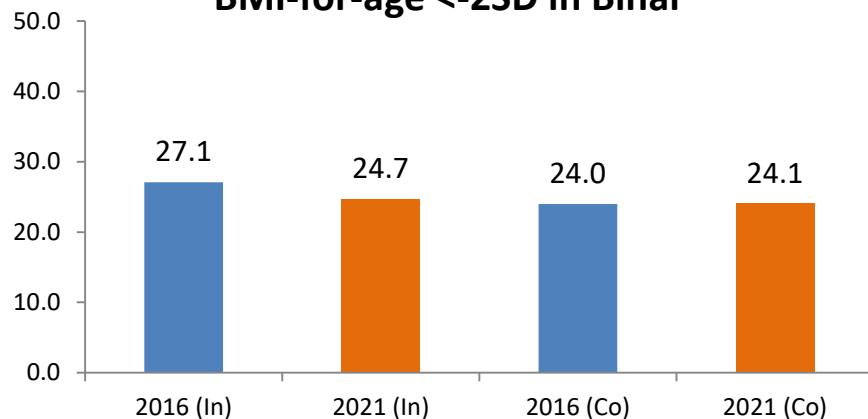
Assistant Professor
Department of Family & Generations
International Institute for Population Sciences
Mumbai – 400 088
12th May 2022

Why Anthropometric Measures?

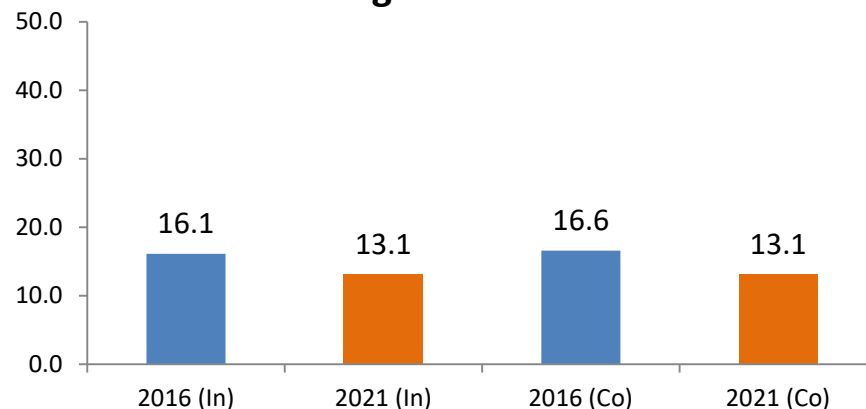
- Anthropometric measurements are non-invasive quantitative measurements of the body.
- Anthropometry provides a valuable assessment of nutritional status in children and adults.
- Anthropometric indicators in Swabhimaan programme: height, weight and MUAC to screen the nutritional status of the target groups.
- Measurements were assessed using the standard technique by trained field investigators.
- All the measurements were taken twice to avoid measurement errors.
- Weight was measured barefooted in kgs using a SECA electronic weighing scale recorded to the nearest 0.1 kg.
- Height was taken barefooted in cms using a stadiometer nearest to 0.1 cm.
- MUAC was also measured in cms with a non-stretchable measuring tape nearest to 0.1 cm.

Key Message: Improvement in BMI has been observed among the early adolescent girls in the intervention areas of all three states

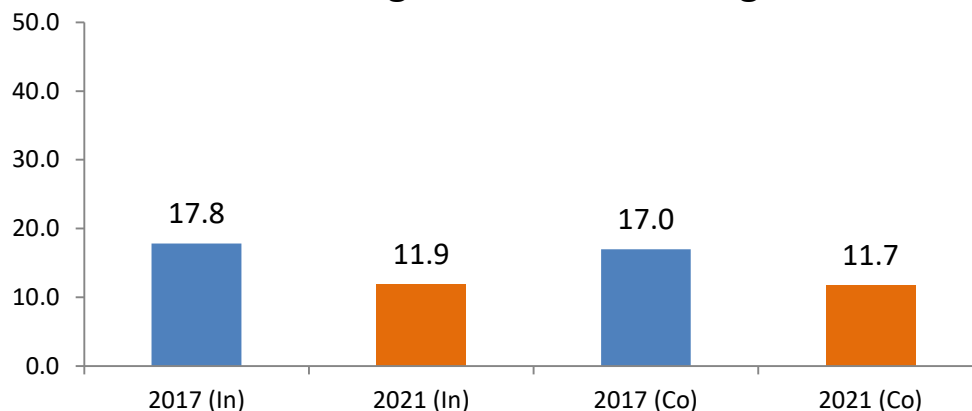
Early adolescent girls (10-14 years) with BMI-for-age <-2SD in Bihar



Early adolescent girls (10-14 years) with BMI-for-age <-2SD in Odisha

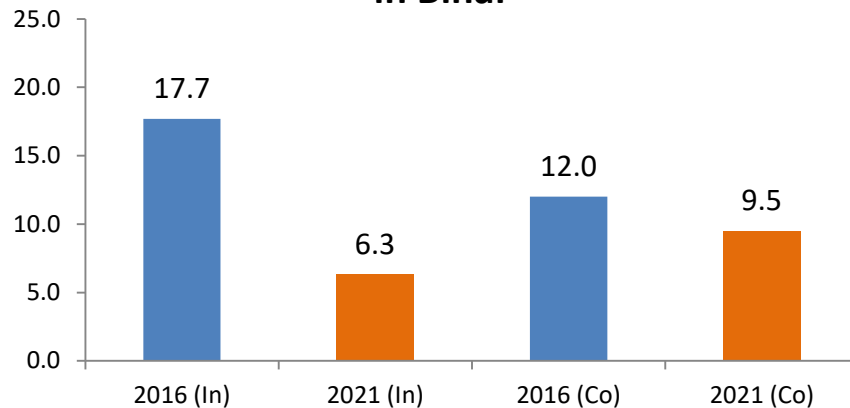


Early adolescent girls (10-14 years) with BMI-for-age <-2SD in Chhattisgarh

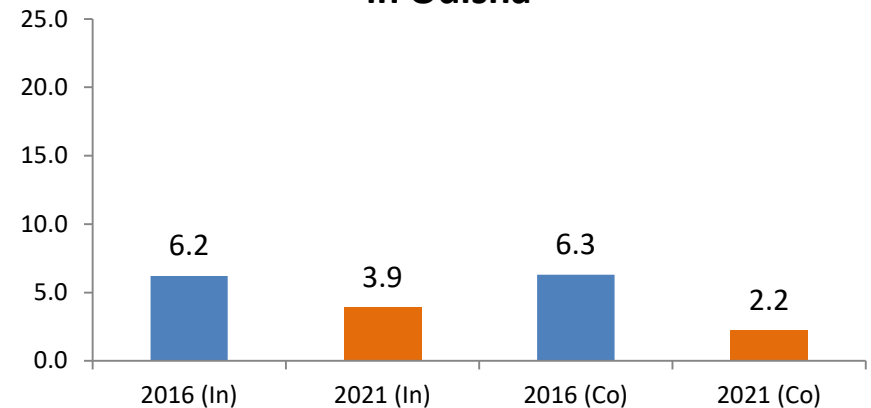


Key Message: Adolescent girls (10-14 years) experiencing both stunting and wasting reduced significantly in the intervention areas of all three states

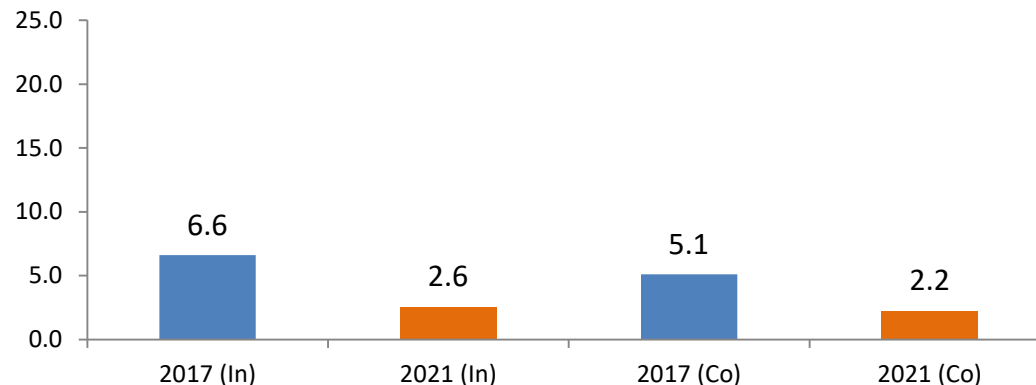
**Adolescent girls (10-14 years)
experiencing both stunting and wasting
in Bihar**



**Adolescent girls (10-14 years)
experiencing both stunting and wasting
in Odisha**

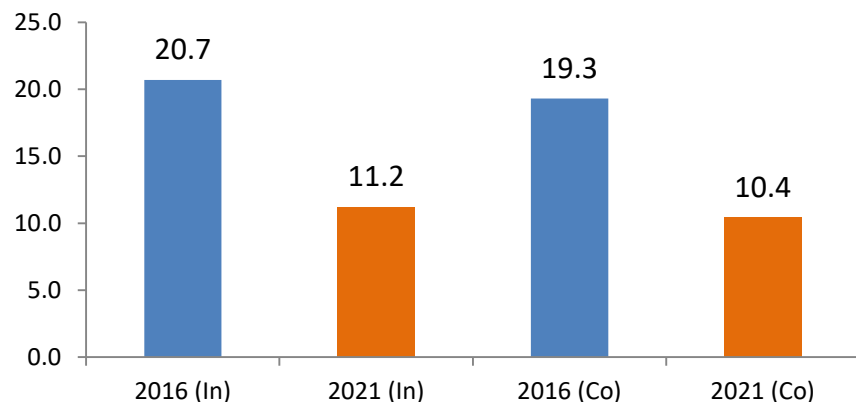


**Adolescent girls (10-14 years) experiencing
both stunting and wasting in Chhattisgarh**

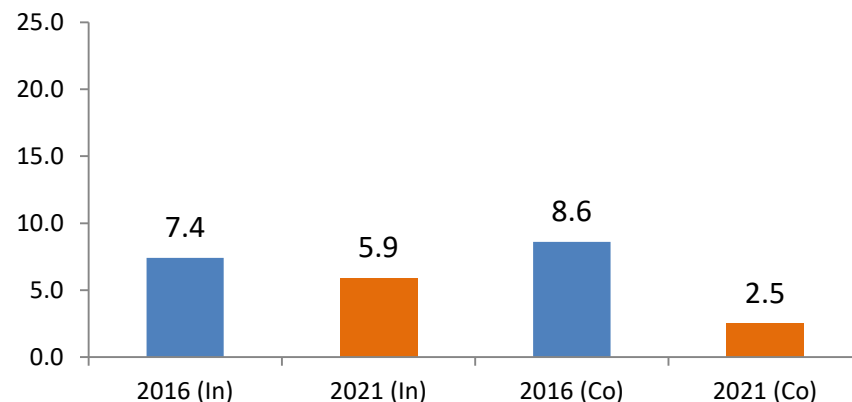


Key Message: Improvement in BMI has been observed among the late adolescent girls in the Intervention areas of all three states

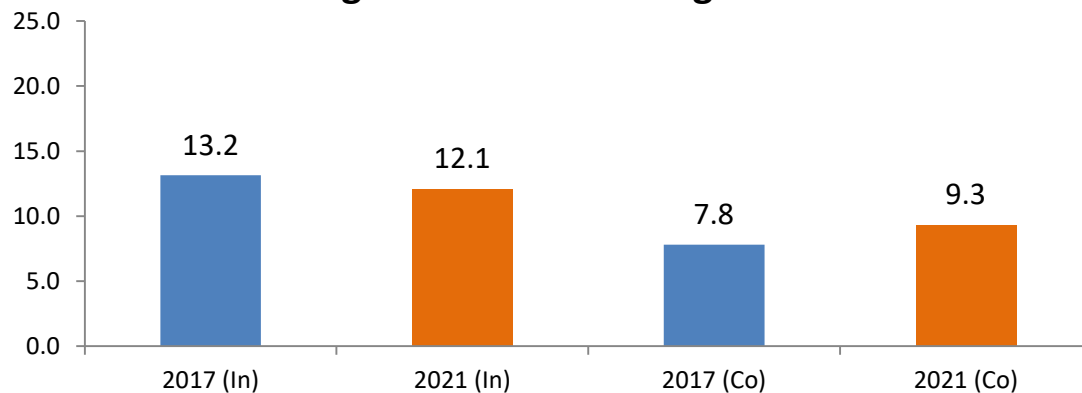
Late adolescent girls (15-19 years) with BMI-for-age <-2SD in Bihar



Late adolescent girls (15-19 years) with BMI-for-age <-2SD in Odisha

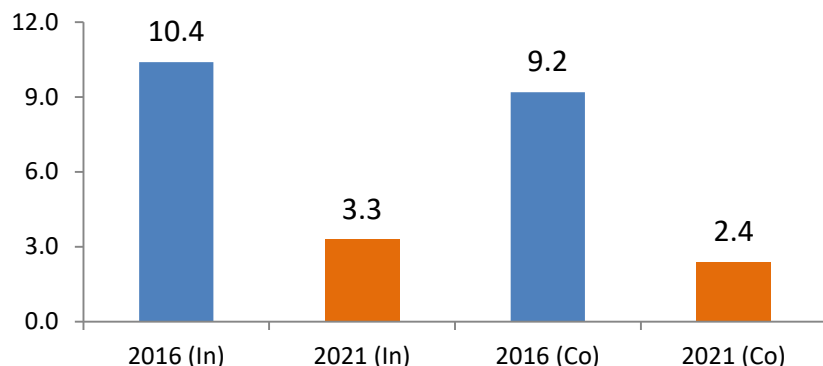


Late adolescent girls (15-19 years) with BMI-for-age <-2SD in Chhattisgarh

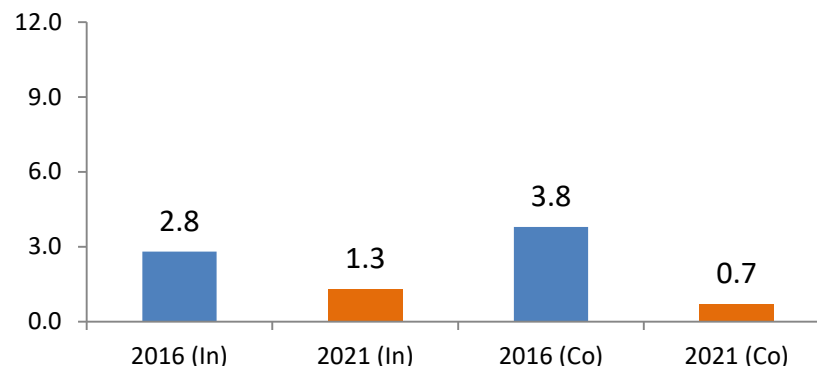


Key Message: Adolescent girls (15-19 years) experiencing both stunting and wasting reduced significantly in the Intervention areas of all three states

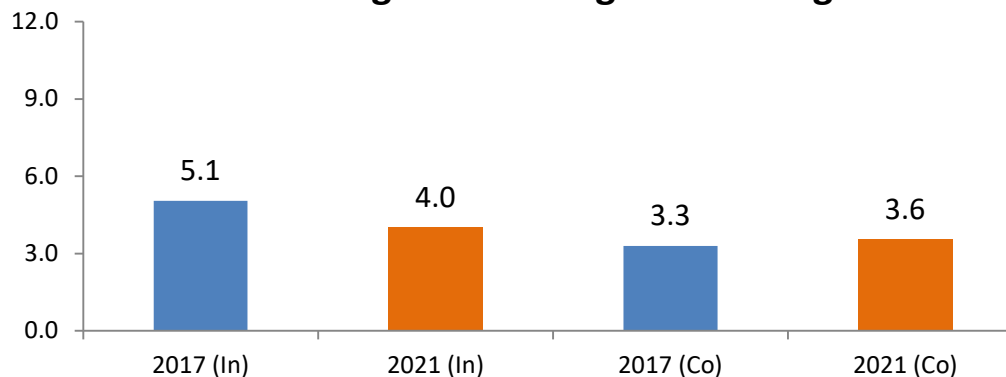
**Adolescent girls (15-19 years)
experiencing both stunting and
wasting in Bihar**



**Adolescent girls (15-19 years)
experiencing both stunting and
wasting in Odisha**

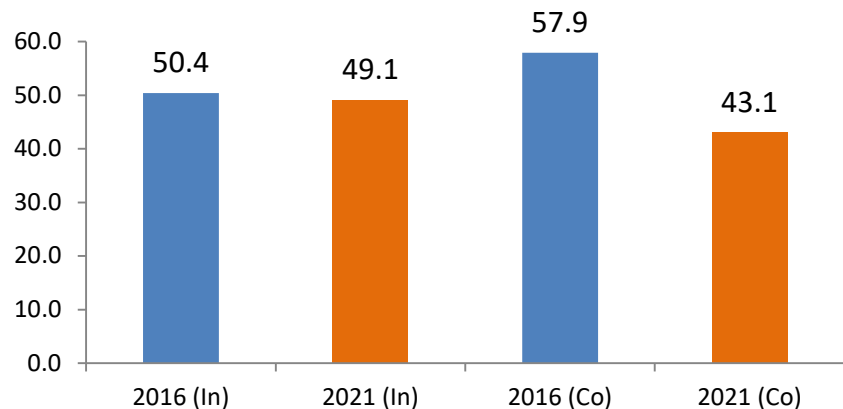


**Adolescent girls (15-19 years) experiencing
both stunting and wasting in Chhattisgarh**

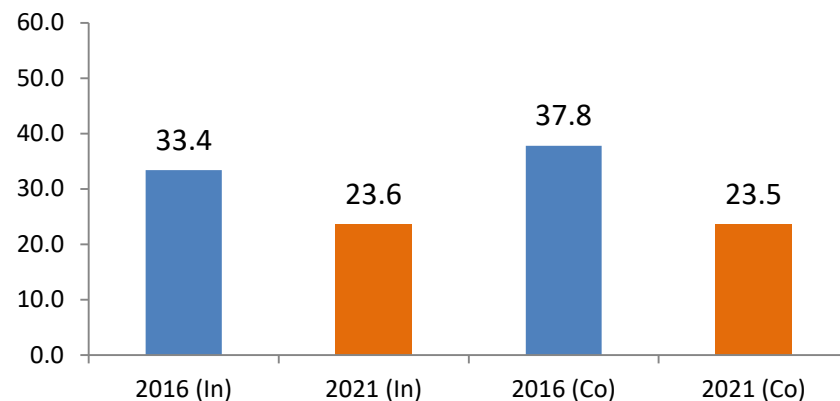


Key Message: The reduction in number of pregnant women with MUAC <23 cm is observed in intervention area in all three states

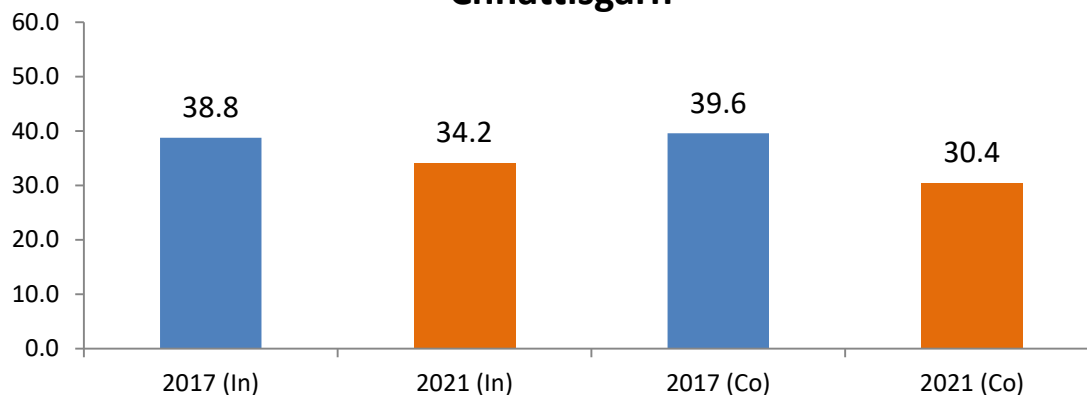
**Pregnant women with MUAC < 23cm
in Bihar**



**Pregnant women with MUAC < 23cm in
Odisha**

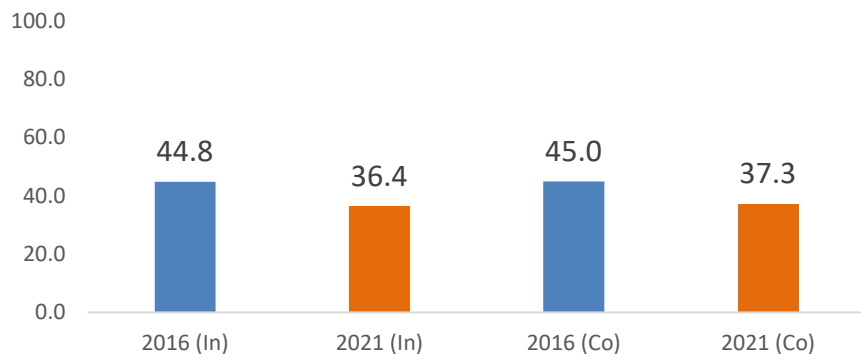


**Pregnant women with MUAC < 23cm in
Chhattisgarh**

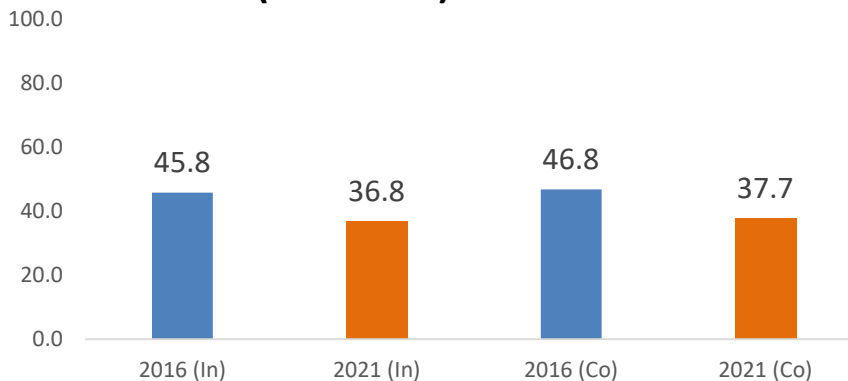


Key Message: Improvement in mothers health has been observed as the number of underweight mothers gone down in all three states

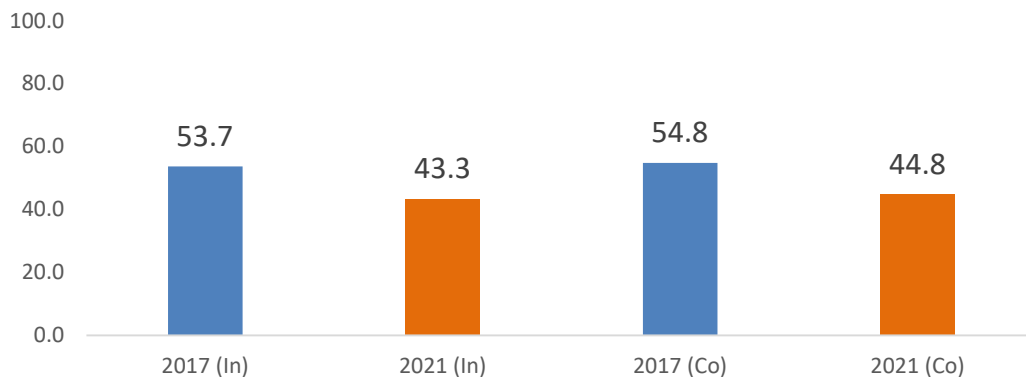
Mothers who are underweight (BMI<18.5) in Bihar



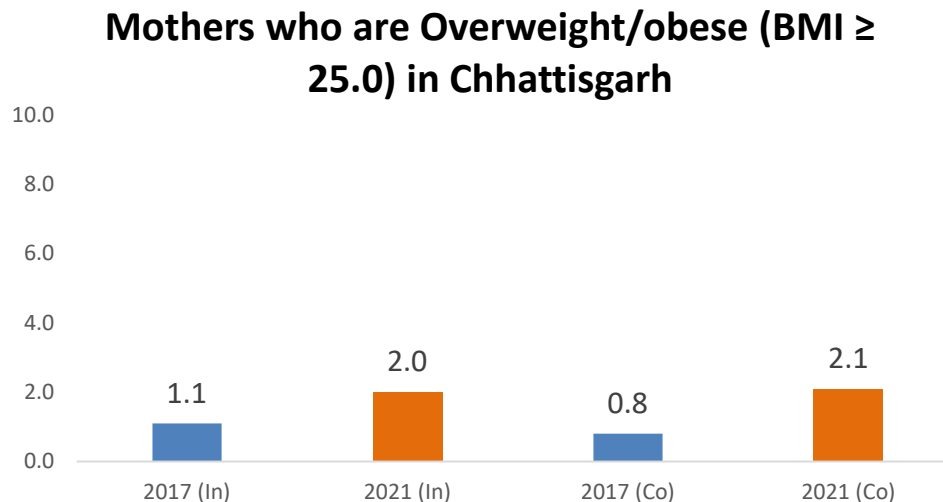
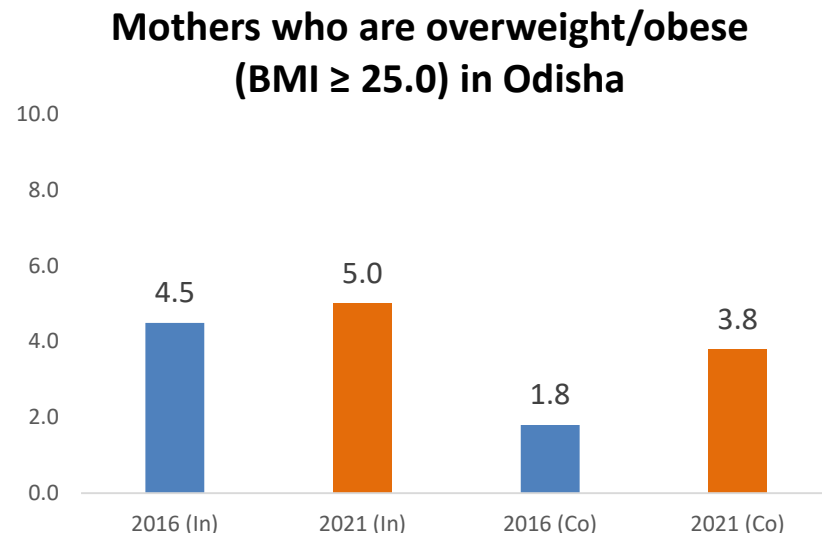
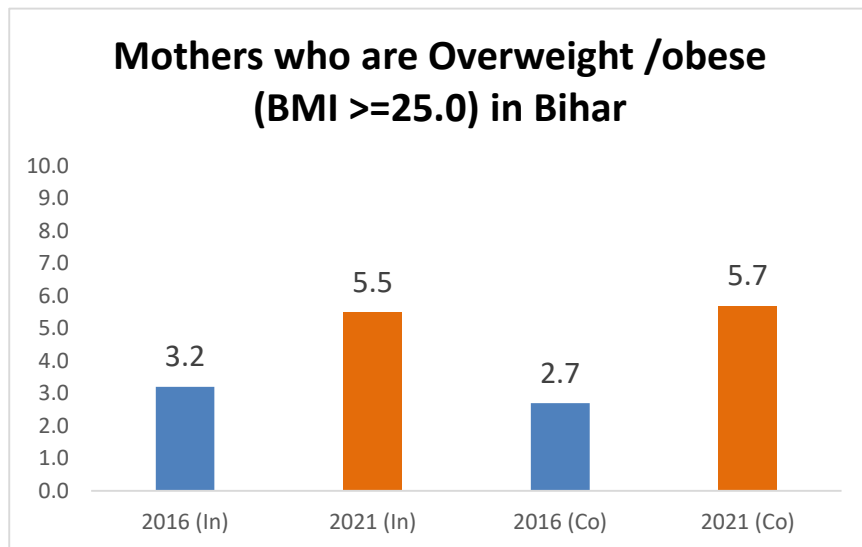
Mothers who are underweight (BMI<18.5) in Odisha



Mothers who are underweight (BMI<18.5) in Chhattisgarh



Key Message: The proportion of overweight mothers has increased in all three states so there is need to focus on the increasing burden of overnutrition too.



Thank You