

Food, Diets and Nutrition: 25 years of progress for Nepal

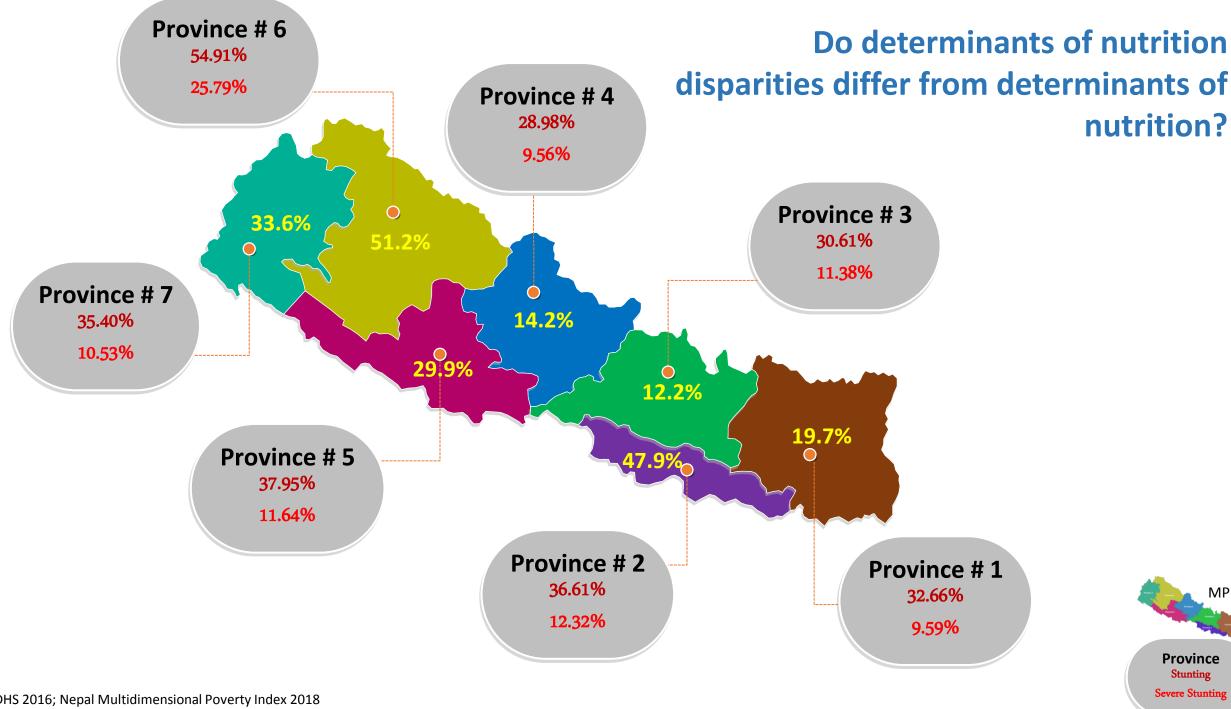
6th Annual Scientific Symposium on Agriculture-Nutrition Pathways and 25 Years of Nepal's progress in Nutrition

27-29 November, 2018

Provincial Disparities in Child Undernutrition in Nepal

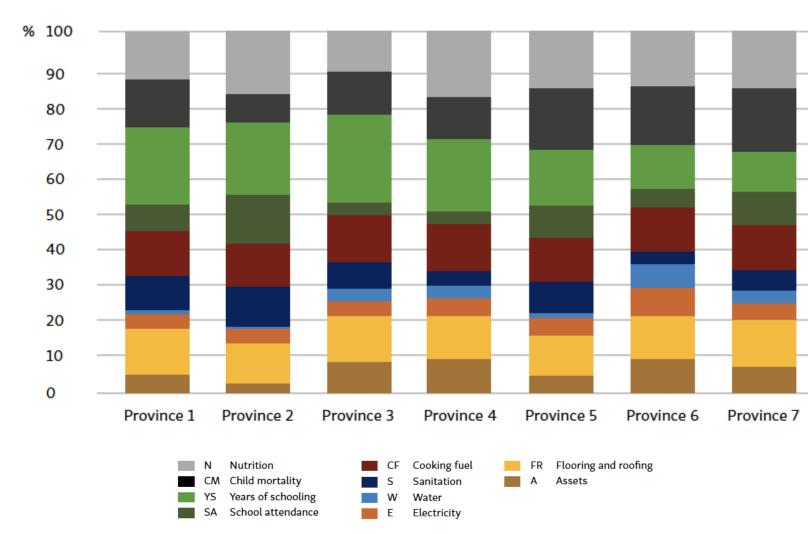
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nutrition?

Contribution of different factors for multi-dimensional poverty in provinces of Nepal



Nutrition is a pre-condition for sustainable development

Nutritional well-being of a population is a reflection of the performance of its social and economic sectors

If Nepal to be sustainably developed, majority of the population should be able to participate in the process

One pre-requisite would be to have well-nourished human workforce

Aims

• To examine the socio-demographic and socio-economic variables that account for the provincial disparities in child undernutrition

Height-for-Age (HAZ)

Age of child

Sex of child

Age of woman

Woman education

Wealth Index

BMI of woman

Women Dietary Diversity

MIYCN Counseling

Ethnicity

Handwashing

ODF

Treatment of water

HH Food Security

Study design and methodology

- Ordinary Least Square Regression
- Blinder-Oaxaca decomposition was used to decompose the provincial differences in HAZ score
 - Explains the gap in the means of HAZ between two provinces
 - Province 6 (highest prevalence) and Province 4 (lowest prevalence) as reference
 - Gap is decomposed into that part that is due to
 - Group differences in the magnitudes of the determinants (Co-variate)
 - Group differences in the effects of the determinants (Coefficient)

$$y^{provinceA} - y^{provinceB} = \Delta x \beta^{provinceA} + \Delta x \beta^{provinceA} + \Delta x \Delta \beta$$
or
 $y^{provinceA} - y^{provinceB} = Endowments + Coefficients + CE$

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Section Sect	Section Sect																	
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1.51 1.52	13-15 13-1	6-8 months	-0.210413	0.172409	-0.043218	0.395246	-0.342516	0.324571	1.066161	0.607568	0.087428	0.441978	-0.598874	0.306005	-0.834324	0.562380	-0.577910	0.434532
1.51 1.52	13-15 13-1	9-11 months	-0.343208	0.176192	-0.435957	0.524015	-0 573237	0.298799	0.125967	0.369369	-0.090817	0.685246	-0.184430	0.390450	-0.843159	0.474309	-0.887498	0.487850
13-13-16-16-16 13-16	13-1-9-10-00 1.36-952 2.30-959 1.46-953 0.20-959 1.20-950 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 1.20-950 0.20-959 0.20-95		_		_		_				_				_		-	
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1.16580 1.16580 1.26660 1.36	1.4550.00 1.1650.00 1.00000 1.500000 1.500000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.50000 1.500000 1.500000 1.500000 1.500000 1.500000 1.500000 1.500000 1.500000 1.500000 1.500000	24-35 months	-1 266964	0.116977	-1 295264	0.347555	-1 402824	0.231797	-1.306117			0.405562	-1 112579	0.224646	-1 440658	0.356901	-1 443019	0.379083
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1.0 1.0	1.0 1.0	25-34 years	-0.095494	0.061158	0.236909	0.174757	0.036914	0.126120	-0.3757117	0.174269			-0.096709	0.134905	-0.148018	0.170788	-0.284400	0.169125
Part	Part												-0.050705	0.134303			_	
Post	The part Content Con	35-49 years	-0.218716	0.129645	0.218669	0.250260	-0.378690	0.254952	-0.717161	0.376700					-0.168976	0.327547	-0.7264995	0.319768
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Post	The part Content Con	oman education																
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Second Column C	Second S	Primary	0.045159	0.087715	-0.104233	0.253990	0.203162	0.152285	-0.057227	0.280054								
Second Column C	Second S	Some Secondary	0.113826	0.086568	0.045397	0.276896	0.161700	0.184018	0.283898	0.273426								
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Foreir Count	Power	acc or ngner	0.184523	0.099431	0.088833	0.316312	0.229153	0.182321	0.2/114/	0.325422								
Foreir Count	Power																	
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Column C	Echec	Poorer	0.4185217	0.094350	-0.007006	0.249327	0.515815	0.364669	0.207096	0.254548	0.290525	0.245701						
Column C	Echec	Middle	0.5095234	0.094660	0.259343	0.258759	0.231012	0.353060	1.090165	0.303566	0.365838	0.269975	0.170365	0.216092				
	Common C														0.557960	0.200204	0.206422	0.261066
Formal Control Contr	In No		_						_				-			0.233334		0.202500
Deciding Color C	Proceeding	Richest	0.860742	0.132723	0.416529	0.349010	0.482927	0.422178	1.075565	0.318631	0.514629	0.345450	0.8102797	0.277333	0.9690785**	0.370812	0.681746	0.448456
Deciding Color C	Proceeding																	
Deciding Color C	Proceeding	Al of woman																
March	Decision Control Con	ii oi woman																
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Common Dictary Diversity No	Common Dietry Diversity No. No	Normal	0.101209	0.079031	-0.5524281	0.265321	0.205148	0.122774	0.660462	0.381675	0.290841	0.462909	-0.079875	0.161880	0.061085	0.197542	0.070618	0.166574
Description Process	Description Distance Distan	Over-weight					-				0.505370							
No Courseling No	No Courseling No	Over-weight	0.5715565	0.107931	-0.1044//	0.324403	0.3242	0.233330	0.003026	0.431670	0.363270	0.4/03/4	0.302343	0.215057	0.000037	0.333320	-0.210011	0.300302
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No Courseling No	No Courseling No	oman Dietary Diversity																
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No	No																	
No	No	Yes	0.034540	0.067093	-0.028886	0.189427	-0.138667	0.154111	0.049963	0.212005	0.309525	0.193368	0.098419	0.159630	0.263556	0.175778	-0.210481	0.165857
No	No																	
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Bidun/Chhetrid Bahun/Chhetrid Trea Other Caste -0.058298	Bahun/Chhetri Trers Other Caste	No																
Bidun/Chhetrid Bahun/Chhetrid Trea Other Caste -0.058298	Bahun/Chhetri Trers Other Caste	Yes	0.036422	0.075390	-0.168027	0.195424	0.107395	0.287142	0.355850	0.207918	-0.150614	0.178758	0.129985	0.161282	-0.052366	0.157938	-0.053364	0.180229
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Isahun/Chhetri	Bahun/Cheter Carrier																	
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Food Secure Mild Food Insecurity 0.064677 0.071707 0.061118 0.161415 -0.129776 0.146629 0.123592 0.202596 0.158356 0.208384 0.231125 0.179737 -0.393792 0.264563 -0.334851 0.200923 Moderate Food Insecurity -0.007920 0.081182 -0.090175 0.233905 -0.098051 0.179841 0.136826 0.210318 0.269784 0.245562 0.124822 0.186568 -0.274566 0.231409 -0.002166 0.201914 Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.338961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 -0.096640 361 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 180 -1.0569 0.36 -1.122026 0.49 -0.27 0.45	Food Secure Mild Food Insecurity 0.064677 0.071707 0.061118 0.161415 -0.129776 0.146629 0.123592 0.202596 0.158356 0.208384 0.231125 0.179737 -0.393792 0.264563 -0.334851 0.200923 Moderate Food Insecurity 0.007920 0.081182 -0.090175 0.233905 -0.098051 0.179841 0.136826 0.210318 0.269784 0.245562 0.124822 0.186568 -0.274566 0.231409 -0.002166 0.201914 Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.338961 5.299598 -1.15 0.62 -1.15 0.62 -1.15711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 -0.096640 361 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.18 -0.006179 0.006179 0.18 -0.006179 0.00																	
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Moderate Food Insecurity	Moderate Food Insecurity		0.05	0.05.55			0.45	0.44	0.40		0.485		0.00	0.43	0.05			0.00
Insecurity 0.007920 0.081182 -0.090175 0.233905 -0.098051 0.179841 0.136826 0.210318 0.269784 0.245562 0.124822 0.186568 -0.274566 0.231409 -0.002166 0.201914 Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.538961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 640 361 180 443 150 205	Insecurity 0.007920 0.081182 -0.090175 0.233905 -0.098051 0.179841 0.136826 0.210318 0.269784 0.245562 0.124822 0.186568 -0.274566 0.231409 -0.002166 0.201914 Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.538961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 640 361 180 443 150 205	Mild Food Insecurity	0.064677	0.071707	0.061118	0.161415	-0.129776	0.146629	0.123592	0.202596	0.158356	0.208384	0.231125	0.179737	-0.393792	0.264563	-0.334851	0.200923
Insecurity 0.007920 0.081182 -0.090175 0.233905 -0.098051 0.179841 0.136826 0.210318 0.269784 0.245562 0.124822 0.186568 -0.274566 0.231409 -0.002166 0.201914 Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.538961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 640 361 180 443 150 205	Insecurity 0.007920 0.081182 -0.090175 0.233905 -0.098051 0.179841 0.136826 0.210318 0.269784 0.245562 0.124822 0.186568 -0.274566 0.231409 -0.002166 0.201914 Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.538961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 640 361 180 443 150 205	Moderate Food	0.00	0.05	0.00		0.05	0.47	0.40	0.04	0.000===		0.40				0.05	0.00
Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.338961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 640 361 180 443 150 205	Severe Food Insecurity -0.061179 0.114123 0.025975 0.327425 -0.448486 0.259327 -0.059973 0.313470 -0.609686 0.353879 -0.009563 0.262515 -0.046513 0.264271 -0.016164 0.242760 Instant -1.05 0.18 -0.24 0.57 -6.338961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 Servation 2349 370 640 361 180 443 150 205		0.007920	0.081182	-0.090175	0.233905	-0.098051	0.179841	0.136826	0.210318	0.269784	0.245562	0.124822	0.186568	-0.274566	0.231409	-0.002166	0.201914
restant -1.05 0.18 -0.24 0.57 -6338961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 servation 2349 370 640 361 180 443 150 205	restant -1.05 0.18 -0.24 0.57 -6338961 5.299598 -1.15 0.62 -1.815711 0.84 -1.0569 0.36 -1.122026 0.49 -0.27 0.45 servation 2349 370 640 361 180 443 150 205		0.001175	0.10.000	0.025075	0.007405	0.440404	0.050007	0.050070	0.212.176	0.00000	0.050000	0.000550	0.262545	0.000000	0.26*274	0.015151	0.262767
servation 2349 370 640 361 180 443 150 205	zervation 2349 370 640 361 180 443 150 205	Severe Food Insecurity	-0.061179	0.114123	0.025975	0.327425	-0.448486	0.259327	-0.059973	0.313470	-0.609686	0.353879	-0.009563	0.262515	-0.046513	0.264271	-0.016164	0.242760
servation 2349 370 640 361 180 443 150 205	servation 2349 370 640 361 180 443 150 205																	
servation 2349 370 640 361 180 443 150 205	servation 2349 370 640 361 180 443 150 205	nstant	-1.05	0.19	-0.24	0.57	- 6339961	5290508	-1 15	0.62	-1 815711	0.84	-1.0560	0.36	-1 122026	0.49	-0.27	0.45
			_	0.10		0.57		.3235358		0.02		0.04		0.50		0.45		0.43
0.19 0.25 0.18 0.45 0.32 0.25 0.25	0.19	servation	2349		370		640		361		180		443		150		205	
	UIDE UIDE VIEW		0.19		0.25		0.18		0.45		0.32		0.25		0,25		0.24	

Different province in Nepal exhibited different association between HAZ and covariates

well as provincial levelAge of woman (province 3 & province

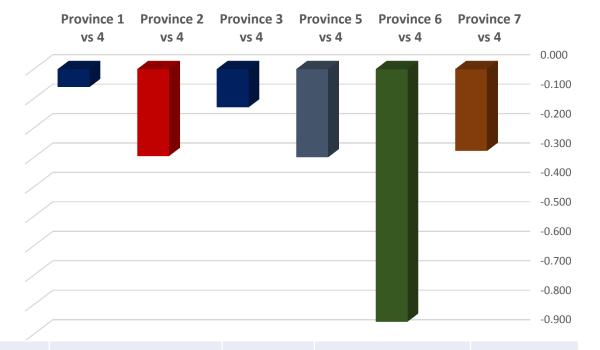
Age of child – a key factor at national as

- Wealth index (national, province 3, province 5)
- *BMI of woman* (national, province 1, province 2)
- Ethnicity (province 5, province 6)
- Handwashing (province 3)
- *ODF* (national, province 1, province 2, province 5)
- Treatment of water (province 7)

Co-variate effects dominant for the difference

For ex: Province 1's mean HAZ outcome, if Province 1 had Province 6's predictor levels

Predicted difference in mean HAZ between 2 provinces given the covariates specified in the model

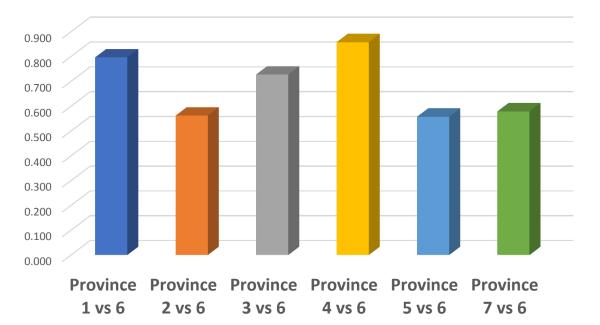


	Difference	SE	Endowments	SE	Coefficients	SE	Interaction	SE
Province 1	0.061	0.128	0.051	0.097	-0.100	0.145	0.111	0.123
Province 2	0.296	0.117	0.635	0.232	-0.340	0.334	0.001	0.388
Province 3	0.130	0.150	0.208	0.126	0.107	0.198	-0.184	0.172
Province 4								
Province 5	0.300	0.124	0.352	0.088	0.003	0.170	-0.055	0.151
Province 6	0.858	0.130	\ 0.479 /	0.119	0.247	0.216	0.132	0.214
Province 7	0.279	0.129	0.360	0.132	-0.262	0.189	0.180	0.199

	Difference	SE	Endowments	SE	Coefficients	SE	Interaction	SE
Province 1	-0.797	0.114	-0.148	0.186	-0.459	0.153	-0.189	0.224
Province 2	-0.562	0.102	0.172	0.314	0.440	0.342	-1.174	0.465
Province 3	-0.728	0.138	-0.114	0.180	-0.620	0.180	0.006	0.225
Province 4	-0.858	0.130	-0.611	0.193	-0.379	0.146	0.132	0.214
Province 5	-0.558	0.109	-0.096	0.119	0.159	0.175	-0.621	0.200
Province 6								
Province 7	-0.579	0.115	0.093	0.105	-0.422	0.117	-0.251	0.125

Coefficient effects dominant for the difference

For ex: Expected change in Province 1's mean HAZ score if Province 1 had Province 6's coefficients



Predicted difference in mean HAZ between 2 provinces given the covariates specified in the model

Which covariates explain most of the provincial disparities?

Explanatory variables	Province 1 vs 6	Province 2 vs 6	Province 3 vs 6	Province 4 vs 6	Province 5 vs 6	Province 7 vs 6
Age of child (6-8 m)						
Age of child (9-11 m)						
Age of child (12-17 m)						
Age of child (18-23 m)						
Age of child (24-35 m)						
Age of child (36-47 m)						
Age of child (48-59 m)						
Female						
Age of woman (25-34 y)						
Age of woman (35-49 y)						
Women with primary education						
Women with some secondary						
Women with SLC or higher						
Poorer wealth index						
Middle wealth index						
Richer wealth index						
Richest wealth index			С		С	
Normal BMI						
Obese						
5 or more wdds						
MIYCN counseling YES						
Terai Other Caste	C; I	C; I			С; І	
Dalit	C; I					
Newar			С; І			
Janajati						
Muslim					E; C; I	
Handwash YES	С		С			
ODF Yes	E; C	E			E	
Treat water YES						E; C; I
Mild Food Secure						
Moderate Food Secure						
Severe Food Secure						

Discussion

- «Blanket» versus «tailored» approach!
- Multi-sector approach not only reduce «average» but also the «disparities»
- Targeting «all» the determinants will result into indistinct effects

Do provinces differ in how well they could integrate context-specific planning and actions or do we see more centralized prescriptions for nutrition?

Please wait for the paper for detailed analysis, interpretation and conclusion