# ADDENDUM TO THE 2004-05 PERU DEMOGRAPHIC AND HEALTH SURVEY

## INFANT AND YOUNG CHILD FEEDING (IYCF) PRACTICES

Appropriate Infant and Young Child Feeding (IYCF) practices include breastfeeding through the age of two years, the introduction of solid and semisolid foods at age 6 months, and a gradual increase in the amount of food given and the frequency of feeding as the child gets older. The average, healthy **breastfed child** should receive solid and semisolid foods 2-3 times per day at age 6-8 months and 3-4 times per day at age 9-23 months, with an additional snack 1-2 times per day. The minimum frequencies for feeding children in developing countries are based on the energy output of complementary foods. The energy needs of children are based on age-specific total daily energy requirements, plus 2 SD (to cover almost all children), minus the average energy intake from breast milk. Infants with low breast-milk intake need to be fed more frequently than those with high breast-milk intake. However, care should be taken that feeding frequencies do not exceed recommended input from complementary foods because excessive feeding can result in displacement of breast milk (PAHO/WHO, 2003).

Although the World Health Organization recommends that infants be breastfed up to the age of two years, some infants are not breastfed at all, or stopped breastfeeding before their second birthday. Guidelines have been developed for these children, who may not have been breastfed because their mother was HIV-positive, or because their mother had died, or for other reasons (WHO, 2005). It is recommended that the **nonbreastfed child** be given solid and semisolid foods 4-5 times per day at age 6-23 months, with an additional snack 1-2 times per day.

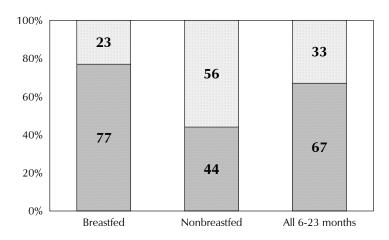
Appropriate nutrition includes feeding children a variety of foods to ensure that nutrient requirements are met. Studies have shown that plant-based complementary foods by themselves are not sufficient to meet the needs of some children for certain micronutrients (WHO/UNICEF, 1998). Therefore, it is advised that children eat meat, poultry, fish, or eggs daily, or as often as possible. Vegetarian diets may not meet children's nutrient requirements unless supplements or fortified foods are also provided. Vitamin A-rich fruits and vegetables should be consumed daily, and the diets of children should include an adequate amount of fat. Fat is important in the diets of infants and young children because it provides essential fatty acids, facilitates absorption of fat-soluble vitamins (such as vitamin A), and enhances dietary energy density and palatability. Tea and coffee are not recommended for children because they contain compounds that inhibit iron absorption. Sugary drinks and excessive juice consumption should be avoided because other than energy they contribute little to the diet and decrease the child's appetite for more nutritious foods (PAHO/WHO, 2003).

### In summary,

- Breastfed children age 6-23 months should receive animal-source foods and vitamin A-rich fruits and vegetables daily (PAHO/WHO, 2003). Because first foods almost always include a grain- or tuber-based staple, it is unlikely that young children who eat less than three food groups will receive both an animal-source food and a vitamin A-rich fruit or vegetable. Therefore, three food groups are considered the minimum number appropriate for breastfed children (Arimond and Ruel, 2004).
- Breastfed infants age 6-8 months should receive complementary foods 2-3 times per day, with 1-2 snacks; breastfed children age 9-23 months should be receive meals 3-4 times per day, with 1-2 snacks (PAHO/WHO, 2003). The table below shows the percentage of breastfed children who were fed at least the minimum number of times per day for their age (i.e., twice for infants age 6-8 months and three times for children age 9-23 months).
- Nonbreastfed children age 6-23 months should receive milk or milk products to ensure that their calcium needs are met. In addition, they need animal-source foods and vitamin A-rich fruits and vegetables. Four food groups are considered the minimum number appropriate for nonbreastfed young children.
- Nonbreastfed children age 12-23 months should be fed meals 4-5 times per day, with 1-2 snacks (WHO, 2005). The table shows the percentage of nonbreastfed children age 6-23 who were fed at least the minimum number of times per day (i.e., four times).

According to the results presented in the table below, 97 percent of (youngest) Peruvian children age 6-23 months living with the mother received breast milk or breast milk substitutes during the 24-hour period before the survey, 94 percent had an adequately diverse diet—i.e., they had been fed foods from the appropriate number of food groups depending on their age and breastfeeding status—and 70 percent had been fed the minimum standard number of times appropriate for their age. Feeding practices for 67 percent of the Peruvian children age 6-23 months met the minimum standard with respect to all three of these feeding practices (see figure below).

# Infant and Young Child Feeding (IYCF) Practices, Peru 2004-05



Fed with all three IYCF practices Not fed with all three IYCF practices

Breastfed children were more likely to be fed the minimum number of times and slightly less likely to receive foods from the minimum number of groups than nonbreastfeeding children. Children in the age group of 12-17 months are most likely to comply with minimum standards. Regional differences in the feeding practices of children are apparent in the 2004-05 Peru results; children residing in Cusco are twice (85 percent) likely to be fed according to the three IYCF practices compared with children residing in Loreto (43 percent). Variations in the recommended IYCF feeding practices based on other characteristics are generally minimal.

Arimond, M., and M.T. Ruel. 2004. Dietary Diversity is Associated with Child Nutritional Status: Evidence from 11 Demographic and Health Surveys. *Journal of Nutrition* 134: 2579.

Pan-American Health Organization and World Health Organization (PAHO/WHO). 2003. *Guiding Principles for Complementary Feeding of the Breastfed Child.* Washington, D.C. and Geneva, Switzerland: PAHO/WHO.

World Health Organization (WHO). 2005. *Guiding Principles for Feeding Nonbreastfed Children 6 to 24 Months of Age.* Geneva, Switzerland: WHO.

World Health Organization and United Nations Children's Fund (WHO/UNICEF). 1998. Complementary Feeding of Young Children in Developing Countries: A Review of Current Scientific Knowledge. Geneva: World Health Organization, WHO/NUT98.1.

#### Addendum Table: Infant and young child feeding (IYCF) practices in Peru

Percentage of youngest children age 6-23 months living with their mother who are fed according to three IYCF feeding practices based upon number of food groups and times they are fed during the day or night preceding the survey by breastfeeding status and background characteristics, Peru 2004-05

Background	percentage fed:	Among all children 6-23 months, percentage fed:			Amo	Among nonbreastfed children 6-23 months, percentage fed:					Among breastfed children 6-23 months, percentage fed:				
9-11 94.5 73.5 72.3 178 97.7 97.7 33.1 30.8 17 99.8 94.8 70.0 18-23 98.3 83.0 87.0 173.9 18-23 98.3 83.0 87.0 173.9 18-23 98.3 83.0 87.0 173.9 18-23 98.3 83.0 87.0 18-23 98.3 83.0 87.0 18-23 98.3 83.0 87.0 18-23 98.3 83.0 18-23 98.3 83.0 18-23 98.3 83.0 18-23 98.3 83.0 18-23 98.3 83.0 18-23 98.3 83.0 18-23 98.3 18-23	With all 3 Number of IYCF children practices (weighted	r IYCF	times or	food	or milk	children	IYCF			or milk	children	groups and minimum	times or		characteristic
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18-23 98.3 89.0 87.7 211 85.8 96.2 47.3 42.8 225 92.6 97.2 67.5 67.5 Sex    Male 92.9 79.7 78.1 451 86.9 93.4 50.0 45.4 177 96.4 93.0 71.5 Female 92.6 76.7 75.0 451 91.9 97.8 45.2 13.0 185 97.6 94.1 67.5    Residence    Urban 93.7 78.7 78.8 483 98.3 97.6 49.0 48.6 246 99.4 95.0 68.7 Raral 91.7 77.7 75.3 433 70.7 91.5 44.5 34.6 116 93.8 91.7 70.7 Residence    Weak of the seminary	68.7 195	68.7	70.0	94.8	99.8	17	30.8	33.1	97.7	97.7	178	72.3	73.5	94.5	9-11
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Male															
Femile	69.1 642	69.1	71.5	93.0	96.4	177	45.4	50.0	93.4	86.9	465	78.1	79.7	92.9	
Residence   Page   Pa	65.7 636														
Urban   93.7   78.7   77.8   48.8   98.3   97.0   97.5   44.5   34.6   24.6   99.4   99.0   98.7   78.7   78.7   77.7   75.3   43.3   70.7   97.5   44.5   34.6   16.6   99.4   99.0   78.7	05.7 050	05.7	07.5	54.1	37.0	103	45.0	73.2	37.0	51.5	731	75.0	70.7	32.0	
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Tumbes (98.1) (89.4) (89.4) 9 * * * * * * 3 98.6 98.5 75.2 Ucayali 89.7 77.7 75.9 19 * * * * * * * 7 95.9 90.3 68.6 Mother's education   No education	74.5 42						*						(83.9)		
Ucayali         89.7         77.7         75.9         19         *         *         *         *         *         7         95.9         90.3         68.6           Mother's education         Very Company         Very Company         Very Company         Very Company         Very Company         Year Company         <	(71.1) 6		(71.1)	(95.6)			*	-					(83.7)	(91.9)	Tacna
Mother's education         91.1         70.3         68.0         45         *         *         *         *         *         66.0         96.2         92.1         65.1           Primary         90.8         76.0         73.0         340         69.3         89.0         43.6         33.5         90         93.6         90.4         69.2           Secondary         95.8         80.7         80.3         378         95.1         97.1         39.9         37.8         154         98.6         96.2         68.9           More than secondary         90.3         79.1         77.8         154         99.1         98.7         62.6         62.6         111         99.6         93.8         72.2           Wealth quintile           Lowest         88.7         76.2         72.6         238         61.8         90.5         28.3         22.8         56         92.7         89.1         67.1	75.2 12		75.2				*						(89.4)	(98.1)	Tumbes
No education 91.1 70.3 68.0 45 * * * * * 6 96.2 92.1 65.1 Primary 90.8 76.0 73.0 340 69.3 89.0 43.6 33.5 90 93.6 90.4 69.2 Secondary 95.8 80.7 80.3 378 95.1 97.1 39.9 37.8 154 98.6 96.2 68.9 More than secondary 90.3 79.1 77.8 154 99.1 98.7 62.6 62.6 111 99.6 93.8 72.2 Wealth quintile  Lowest 88.7 76.2 72.6 238 61.8 90.5 28.3 22.8 56 92.7 89.1 67.1	64.5 26	64.5	68.6	90.3	95.9	7	*	*	*	*	19	<i>7</i> 5.9	77.7	89.7	Ucayali
No education 91.1 70.3 68.0 45 * * * * * * 6 96.2 92.1 65.1 Primary 90.8 76.0 73.0 340 69.3 89.0 43.6 33.5 90 93.6 90.4 69.2 Secondary 95.8 80.7 80.3 378 95.1 97.1 39.9 37.8 154 98.6 96.2 68.9 More than secondary 90.3 79.1 77.8 154 99.1 98.7 62.6 62.6 111 99.6 93.8 72.2 Wealth quintile  Lowest 88.7 76.2 72.6 238 61.8 90.5 28.3 22.8 56 92.7 89.1 67.1															Mother's education
Primary     90.8     76.0     73.0     340     69.3     89.0     43.6     33.5     90     93.6     90.4     69.2       Secondary     95.8     80.7     80.3     378     95.1     97.1     39.9     37.8     154     98.6     96.2     68.9       More than secondary     90.3     79.1     77.8     154     99.1     98.7     62.6     62.6     111     99.6     93.8     72.2       Wealth quintile       Lowest     88.7     76.2     72.6     238     61.8     90.5     28.3     22.8     56     92.7     89.1     67.1	63.1 51	63.1	65.1	92.1	96.2	6	*	*	*	*	45	68.0	70.3	91 1	
Secondary         95.8         80.7         80.3         378         95.1         97.1         39.9         37.8         154         98.6         96.2         68.9           More than secondary         90.3         79.1         77.8         154         99.1         98.7         62.6         62.6         111         99.6         93.8         72.2           Wealth quintile           Lowest         88.7         76.2         72.6         238         61.8         90.5         28.3         22.8         56         92.7         89.1         67.1	64.7 430						33.5	43.6	89.0	69.3					
More than secondary 90.3 79.1 77.8 154 99.1 98.7 62.6 62.6 111 99.6 93.8 72.2 Wealth quintile  Lowest 88.7 76.2 72.6 238 61.8 90.5 28.3 22.8 56 92.7 89.1 67.1	68.0 532														
Wealth quintile           Lowest         88.7         76.2         72.6         238         61.8         90.5         28.3         22.8         56         92.7         89.1         67.1	71.4 265														
Lowest 88.7 76.2 72.6 238 61.8 90.5 28.3 22.8 56 92.7 89.1 67.1	, i. t 200	/ 1.4	/ 4.4	55.0	55.0		02.0	02.0	50.7	22.1	134	77.0	/ 5.1	50.5	,
	(2.1 202	(2.4	67.1	00.1	02.7	F.C	22.0	20.2	00.5	(1.0	220	72.6	76.0	00.7	
6 1 046 775 760 006 704 000 570 450 65 055 040 704	63.1 293											/2.6			
	70.0 301														Second
	64.7 231														
	71.4 275														
Highest 97.7 77.4 77.4 98 98.6 98.2 54.9 54.9 79 99.4 97.9 67.4	67.4 177	67.4	67.4	97.9	99.4	79	54.9	54.9	98.2	98.6	98	77.4	77.4	97.7	Highest
Total 92.8 78.2 76.6 916 89.5 95.6 47.6 44.1 361 97.0 93.6 69.5	67.4 1,277	67.4	69.5	93.6	97.0	361	44.1	47.6	95.6	80.5	916	76.6	78.2	92.8	Total
Total 32.0 70.2 70.0 510 05.5 55.0 47.0 44.1 501 57.0 55.0 05.5	07.7	07.4	05.5	33.0	97.0	301	44.1	47.0	22.0	05.5	910	/ 0.0	/ 0.2	94.0	TOTAL

Note: Figures in parentheses are based on 25-49 unweighted cases. An asterisk indicates that a figure is based on fewer than 25 unweighted cases and has been suppressed.

¹ Food groups: a) infant formula, milk other than breast milk, cheese or yogurt or other milk products; b) foods made from grains, roots, and tubers, including porridge and, fortified baby food from grains; c) vitamin A-rich fruits and vegetables (and red palm oil); d) other fruits and vegetables; e) eggs; f) meat, poultry, fish, and shellfish (and organ meats); g) legumes and nuts; h) foods made with oil, fat, butter. Social program food item (Papia) is included

in both grains and milk group.

At least twice a day for breastfed infant formula, fresh, tinned and powdered animal milk, and cheese, yogurt and other milk products

Includes commercial infant formula, fresh, tinned and powdered animal milk, and cheese, yogurt and other milk products

Nonbreastfed children age 6-23 months are considered to be fed with three IYCF practices if they receive other milk products and are fed at least the minimum number of food groups, at least the minimum number of

<sup>34</sup> food groups for breastfed children and 4+ food groups for nonbreastfed children
Fed solid or semisolid food at least twice a day for infants age 6-8 months, 3+ times a day for other breastfed children, and 4+ times a day for nonbreastfed children