



World Vision Canada/ Mongolia

SCN Working Group on Micronutrients: Information Sharing Template for 2005 and Earlier Activities

Table 1: Demographic Information

Name of Reporting Individual	<i>Solongo Altangerel</i>
Institution/Organization	<i>World Vision International Mongolia</i>
Contact address (Email)	solongeo_altangerel@wvi.org
Position	<i>Acting National Coordinator</i>
Department/Section	<i>Child Health and Nutrition</i>

Table 2: Measurement, assessment, monitoring and reporting micronutrient deficiencies:

<u>Geographic area(s) covered by this table</u>	<i>3 districts of Ulaanbaatar city, 9 provinces, Mongolia</i>
<u>Project Name (if relevant)</u>	<i>Child Health and Nutrition</i>
<u>Approximate # of beneficiaries</u>	<i>Children under age of 5 – 32.000, Pregnant & Lactating women – 7.000</i>

Activities	Micronutrients														
	Iodine	Iron	Folate	Zinc	Calcium	Vit A	Vit B-12	Vit C	Vit D	Vit B-1	Vit B-2	Vit B-3	Vit B-6	Vit K	Vit E
<i>Prevalence Assessment</i>		<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>						
<i>Training/Capacity Building</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- Capacity Building
- Training of medical personnel on prevention & treatment of micronutrient deficiency
- Nutrition Education
- Infant nutrition, exclusive breastfeeding, continued BF to 24 months
 - Increased consumption of iron-rich foods
 - Nutrition for pregnant & lactating women

Monitoring and Evaluation		<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>						
Analysis and Reporting		<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>						
Table 3: Food Fortification:															
<u>Geographic area(s) covered by this table</u>	3 districts of Ulaanbaatar city, 9 provinces, Mongolia														
<u>Project Name (if relevant)</u>	Child Health and Nutrition														
<u>Approximate # of subjects or beneficiaries for each project described</u>	Children under age of 5 – 32.000, Pregnant & Lactating women – 7.000														
	Micronutrients														
<u>Activities</u>	Iodine	Iron	Folate	Zinc	Calcium	Vit A	Vit B-12	Vit C	Vit D	Vit B-1	Vit B-2	Vit B-3	Vit B-6	Vit K	Vit E
Policy and Advocacy		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Advocacy of newly approved Law on the National Code on Marketing of Breast Milk															
Operational Research	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>						
Baseline and project evaluation															
Targeted Fortification															
In-home fortification (complementary foods)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<p>Since 2000, World Vision in partnership with the Mongolian Government has been working to address micronutrient deficiency in Mongolia. To prevent micronutrient deficiency, all children under age three received preventative doses of micronutrients, through the use of “Supplefer™” also known as “Sprinkles.” This product was invented by Ped-Med, affiliated with Sick Kids Hospital in Toronto and manufactured by H. J. Heinz Company. Ingredients are chosen for their impact on anemia and their positive interaction with the other nutrients included. As widely used, Sprinkles consist of the following:</p> <ul style="list-style-type: none"> • Microencapsulated ferrous fumarate, (iron surrounded by a soy-based hydrogenated lipid coating, to prevent oxidation and mask the metallic taste and color of the iron—Zlotkin, 2002). • Vitamin A, (this deficiency and anemia often coexist—Bloem et. al., 1989 and because vitamin A has a positive effect on iron status, perhaps mobilizing iron stores—Mejia, 1988). 															

- Vitamin C, (it increases iron absorption and prevents oxidation—Groff & Gropper, 1999).
- Folic acid, (the standard is to provide the two nutrients together, as folate deficiency can cause megaloblastic anemia and often co-exists with iron deficiency—Fleming et. al., 1979).
- Zinc (for child growth and immune function, and the addition of zinc increases hemoglobin more than iron alone—Smith, 1999, Fishman et. al., 2000, & Kolsteren et. al. 1999; also, folic acid is better absorbed when consumed with zinc (Groff & Gropper, 1999).
- Sick Kids Hospital adapted the Sprinkles for Mongolia, by adding vitamin D to curb high levels of rickets

Doses are based on international recommendations (FAO/WHO, 2002) and results of efficacy trials A recent survey conducted in October 2003 demonstrates the effectiveness of this strategy.

- 21% reduction in anemia among children under 3 years of age in the program areas
- A 5% reduction in the prevalence of rickets

Table 4: Supplementation:

<u>Geographic area(s) covered by this table</u>	3 districts of Ulaanbaatar city, 9 provinces, Mongolia														
<u>Project Name (if relevant)</u>	Child Health and Nutrition														
<u>Approximate # of subjects or beneficiaries for each project described</u>	Children under age of 5 – 32.000, Pregnant & Lactating women – 7.000														
	Micronutrients														
<u>Activities</u>	Iodine	Iron	Folate	Zinc	Calcium	Vit A	Vit B-12	Vit C	Vit D	Vit B-1	Vit B-2	Vit B-3	Vit B-6	Vit K	Vit E
Prevention Program		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						
Iron/folate supplementation (60 mg Fe, 400 mcg folic acid/day, 2nd & 3rd trimester of pregnancy, 6 months post delivery) Preventative dose of Vitamin D to children 2-5 month during winter months (1 capsule (50 000 IU) ones a month from October to May)															
Treatment Orientation		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>						
Iron syrup to anemic children 36-59 months (3 mg/kg body weight/day for 3 months) Iron/folate supplementation to pregnant and lactating women Vitamin D to children diagnosed with Rickets (Total of 7 tablets of 50.000 IU twice a week)															
Supplementation project size															

National/Regional Program	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>							
Equipment/Supplies	<input checked="" type="checkbox"/>														
Supplementation Targeted Groups															
Women	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>							
Pregnant women	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>							
Infants < 6 months of age								<input checked="" type="checkbox"/>							
Children 6-24 months of age	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Children 2 – 5 years of age	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

Table 5: Dietary Diversity to Improve Micronutrient Nutrition:

<u>Geographic area(s) covered by this table</u>	3 districts of Ulaanbaatar city, 9 provinces, Mongolia														
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	Micronutrients														
<u>Activities</u>	Iodine	Iron	Folate	Zinc	Calcium	Vit A	Vit B-12	Vit C	Vit D	Vit B-1	Vit B-2	Vit B-3	Vit B-6	Vit K	Vit E
Dietary Policy and Advocacy		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Agricultural Initiatives															
Crop breeding															

While there has been an increase in knowledge and nutritional status in the target areas in which the project has been implemented, some families continue to face issues related to nutritional intake of children under age 5 due to low income and food shortage. Providing additional income to these poor families contributed to the sustainability of the Hearth Project within the communities. Chicken housing was built in the backyard of each eligible HHs. The Project provided with necessary building materials for chicken housing. Households were responsible for building it. Necessary training and assistance provided by staff. After housing is ready the Project bought chicken. High mortality, mainly due to disease, especially in growers, constitutes one of the greatest constraints on development. Therefore chickens were purchased from the same area where the HHs are located. They were vaccinated prior to distribution to families by local veterinaries. HHs trained

