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IZiNCG Satellite Session May 14, 2009

FOOD AND NUTRITION BULLETIN

Volume 25, Number 1, March 2004

SUPPLEMENT 2:

International Zinc Nutrition Consultative Group (IZINCG) Technical Document #1



ASSESSMENT OF THE RISK OF ZINC DEFICIENCY IN POPULATIONS AND OPTIONS FOR ITS CONTROL

Christine Hotz and Kenneth H. Brown, guest editors

March, 2004



Available on the IZiNCG web site: www.izincg.org

International Nutrition Foundation



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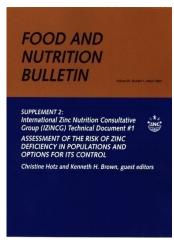
Comprehensive review of current knowledge on zinc nutrition

Increased recognition of zinc deficiency as a public health problem

Provided groundwork on prevalence estimates – allowed estimates of Global Burden of Disease

International Nutrition Foundation





International Nutrition Foundation for United Nations

2004 -

- Increased recognition of zinc deficiency as a public health problem
- Provided groundwork on prevalence estimates – allowed estimates of Global Burden of Disease due to zinc deficiency
- Increased interest in assessing prevalence of zinc deficiency
- Increased demand for information on how to include zinc in micronutrient programs



Encouraging further assessment of population zinc status

- Conclusions of the Joint WHO/UNICEF/IAEA/IZINCG Interagency Meeting on Zinc Status Indicators
 - Food and Nutrition Bulletin 28(Supplement 3) 2007
 - Biochemical Indicators
 SY Hess, KH Brown
 - Serum zinc is preferred indicator for prevalence and impact assessment
 - Functional Indicators
 C. Fisher-Walker, RE Black
 - Linear growth stunting for prevalence estimates
 - Dietary Indicators
 C. Hotz
 - Risk of inadequate intake; design and assessment of fortification programs

Information and experience with zinc intervention strategies has increased

 IZiNCG undertook to compile and analyze all available information

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International Zinc Nutrition Consultative
Group

Technical Document #2

SYSTEMATIC REVIEWS OF ZINC INTERVENTION STRATEGIES

Kenneth H. Brown and Sonja Y Hess, guest editors

March, 2009

Systematic Review of Evidence for Impact of Zinc Intervention Strategies

Prepared & reviewed by IZiNCG Steering Committee

IUNS and Food Nutr Bull coordinated external review

- UNICEF
- WHO

International Nutrition Foundation



Content

- Preventive zinc supplementation in children
- Therapeutic zinc supplementation in children
- Zinc supplementation during pregnancy and lactation
- Zinc fortification
- Dietary Diversification to enhance zinc intakes
- Zinc intake through breastmilk
- Improving zinc status through biofortification
- Conclusions and mainstreaming zinc interventions

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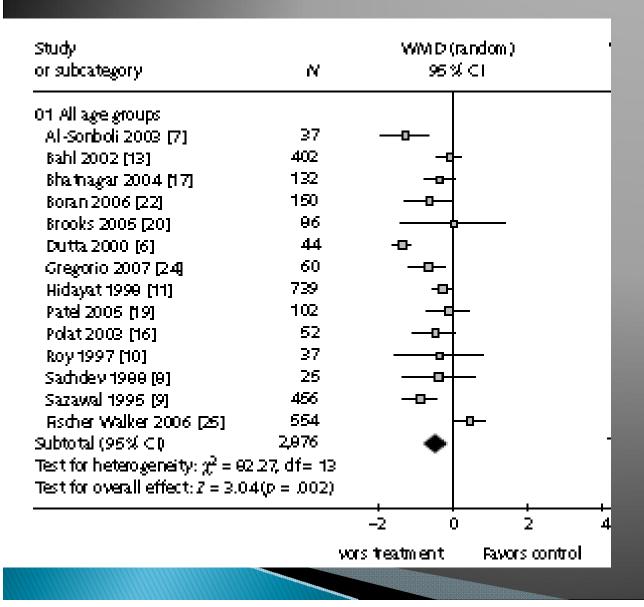
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Summary of Conclusions

Population zinc status assessment:

- The recommended biochemical indicator is the prevalence of serum zinc concentration less than the age/sex/time of day-specific cutoffs;
- When the prevalence is greater than 20%, intervention to improve zinc status is recommended

Effect of adjunctive therapeutic zinc supplementation on duration of acute diarrhea



Reduced duration of acute diarrhea by 0.5 days (n=14; p<0.002)

Reduced duration of persistent diarrhea by 0.68 days (n=5; p<0.001)

No beneficial effect among children < 6 months of age

Summary of Conclusions: Zinc fortification

Benefits of Zinc Fortification

↑ Zn intake



Weight of evidence in favor of zinc fortification

Thank you!



Please visit our web site at www.izincg.org

Acknowledgements











