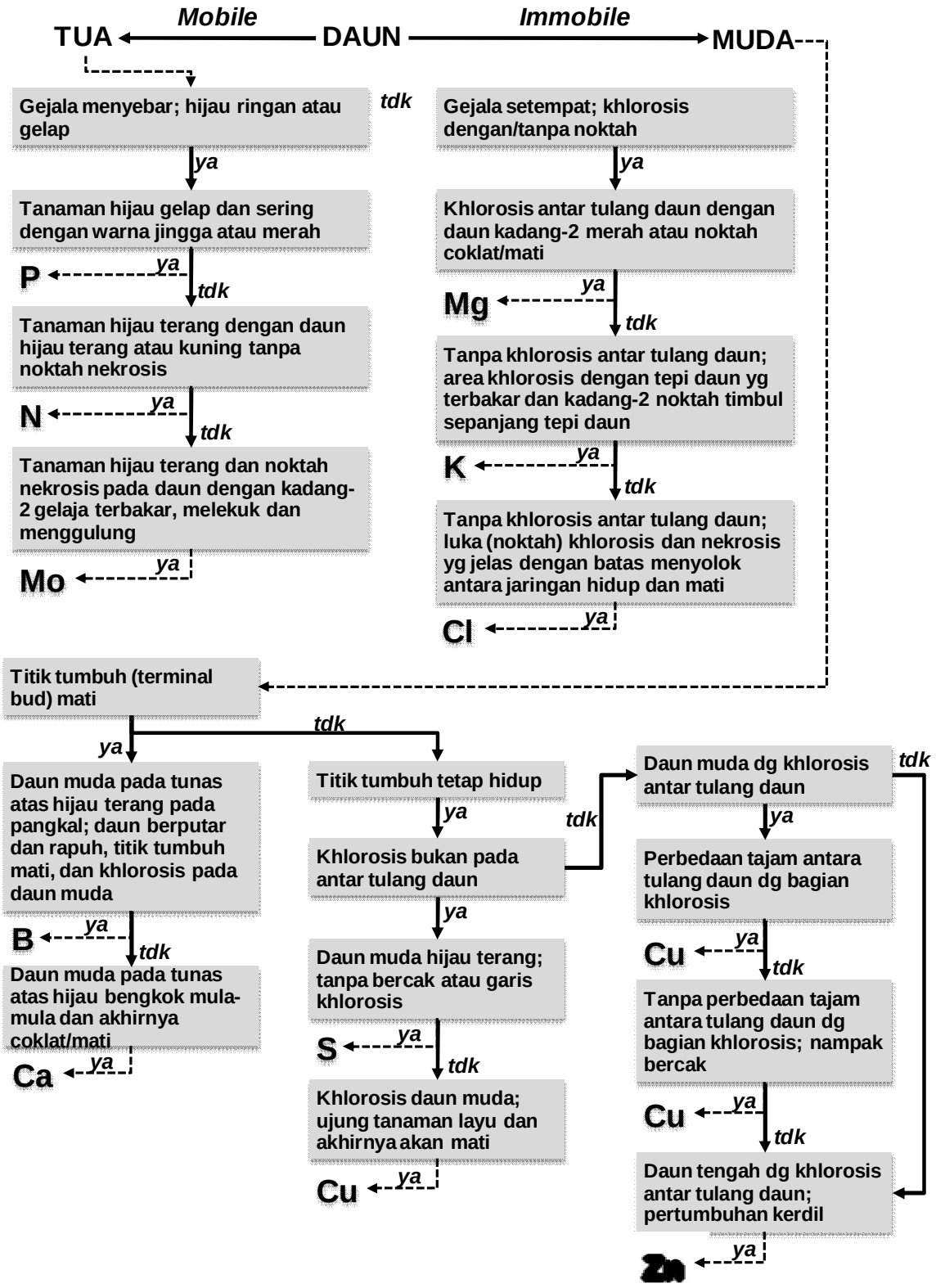NUTRIENT DEFICIENCY DIAGNOSIS