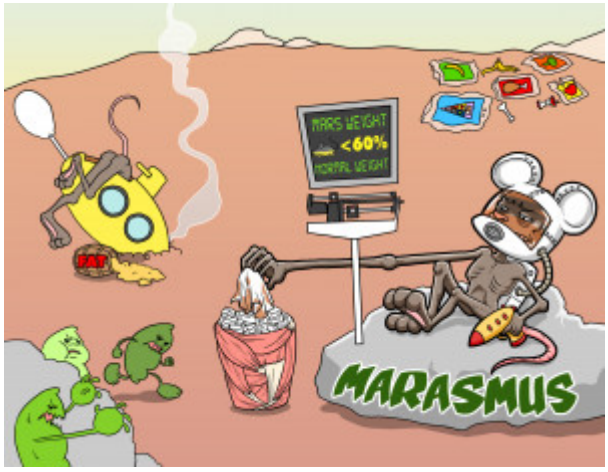
Marasmus

This is a severe form of malnutrition caused by total calorie malnutrition (protein, carbohydrates and all other nutrients). This results in emaciation, characterized by muscle and tissue wasting, to the point where body weight is less than 60% of normal.



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Deficiency of all Nutrients
Out of Food
Marasmus is caused by total calorie malnutrition, meaning that there is a severe deficiency in nearly all nutrients, including protein and carbohydrates.

Body Weight < 60% of Normal
Less-than 60% Weight-scale
In these patients, emaciation and tissue wasting occurs to the point that body weight is reduced to less than 60% of the normal, expected body weight.

Tissue and Muscle Wasting
Tissues in Muscle Waste-basket
Patients with marasmus show extensive tissue and muscle wasting. There is notable loss or muscle mass, and skin becomes dry, loose, and hanging.

Loss of Subcutaneous Fat (Buttocks and Thighs)
Sub-Q-tip with skinny Buttocks and Thighs
Notably, there is drastic loss of body fat (adipose tissue). Areas of normal fatty deposits, such as the buttocks and thighs, show extensive loss of subcutaneous fat.

Variable Edema
Various Edamame
Marasmus is different from kwashiorkor, in that marasmus is total nutrition deficiency, instead of solely protein. There is still protein wasting with this disorder, however, and may lead to edema in patients, which may present in multiple variations.

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