Addison'sDisease

(AdrenalInsufficiency; AdrenocorticalHypofunction; ChronicAdrenocorticalInsufficiency)

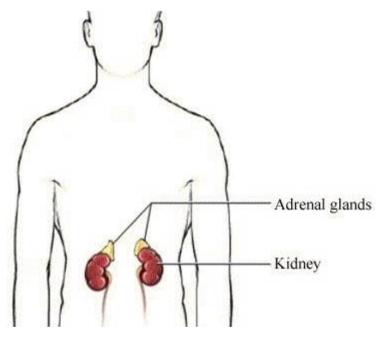
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EnEspañol(SpanishVersion)

Definition

Add is on 's disease is a rare disorder of the adrenal glands, in which they do not produce enough of the hormones cortisol and ald osterone. The adrenal glands are two small glands that sit on topo feach kidney.

AdrenalGlands



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Causes

Addison's disease is the result of gradual damage to the adrenal cortex, the outer layer of the adrenal gland. This damage may be caused by:

- Thebody'simmunesystemattackingthegland(autoimmunedisease)
- <u>Tuberculosis</u>
- Bleedingwithintheadrenalglands(relatedtouseofanticoagulantmedicationsandshock)
- Surgical complication
- Congenitalorgeneticfactors(enzymedefects,familialglucocorticoidinsuffiency)
- Cytomegalovirus(CMV)associated with AIDS
- Fungalinfections, including:
 - Blastomycosis

- Histoplasmosis
- Coccidioidomycosis
- Cancerincludingmetastasesfrom:
 - Breast, lung, kidney, or coloncancer
 - <u>Lymphoma</u>
 - <u>Kaposi'ssarcoma</u>
- Long-termcorticosteroidtreatment
- Bleeding within the adrenal glands (related to use of anticoagulant medications and shock)
- Medications(suchasketoconazoleoretomidate)
- Radiationtreatment
- Chronicillness, including:
 - <u>Sarcoidosis</u>
 - <u>Hemachromatosis</u>
 - <u>Amyloidosis</u>
 - <u>Adrenoleukodystrophy</u>
 - Adrenomyelodystrophy

RiskFactors

 $\label{eq:constraint} Arisk factor is something that increases your chance of getting a disease or condition.$

Riskfactorsinclude:

- Havingthefollowingautoimmunediseasescanbeatriskforanassociatedautoimmune-basedAddison's disease:
 - <u>TypeIdiabetes</u>
 - Pernicious <u>anemia</u>
 - <u>Hypoparathyroidism</u>
 - <u>Hypopituitarism</u>
 - Gonadalcollapse
 - <u>Hyperthyroidism(Grave'sdisease)</u> or <u>hypothryoidism(Hashimoto'sdisease)</u>
 - <u>Myastheniagravis</u>
- Stress
- Anticoagulantmedications
- Abdominalinjury
- Familymemberswithautoimmune-causedAddison'sdisease
- Long-termsteroidmedicationtreatment,followedby:
 - Severestress
 - Infection
 - Surgery
 - Trauma
- Previoussurgeryonadrenalglands

Symptoms

Symptomsmayinclude:

- Extremeweakness, fatigue
- Weightloss
- Nauseaorvomiting
- Chronicdiarrhea
- Muscleweakness
- Darkeningoffreckles,nipples,scars,skincreases,gums,mouth,nailbeds,andvaginallining

- Emotionalchanges, especially depression
- Cravingforsaltyfoods
- Abdominalpain
- Headache
- Sweating
- Painfuljointsormuscle

Aseverecomplication of Addison's disease is Addison's crisis or adrenal crisis. Symptoms include:

- Severeabdominal,back,orlegpain
- Fainting
- Severelowbloodpressure
- Dehydration
- Nausea, vomiting, and diarrhea
- Lowbloodsugar

Diagnosis

Thedoctorwillaskaboutyoursymptomsandmedicalhistory, and perform a physical exam.

Testsmayinclude:

- **Bloodandurinetests** -toseeifyouhavelowlevelsofcortisolandaldosterone,highlevelofACTH,andto measurelevelsof:
 - Antiadrenalantibody
 - Sodium
 - Potassium
 - Bicarbonate
 - Bloodureanitrogenlevels
- ACTHstimulationtest -measurescortisolinthebloodand/orurinebeforeandafteraninjectionofACTH (ACTHisahormonethatstimulatestheadrenalglands.)
- **Insulin-inducedhypoglycemiatest** –measuresglucoseandcortisollevelsinthebloodbeforeandafteran injectionofinsulin
- X-rays-picturesoftheabdomentoseeiftheadrenalglandshavesignsofcalciumdeposits
- <u>CTscan</u>-aseriesofx-raypicturesoftheadrenalglands

Treatment

Symptoms of Add is on's disease can be controlled with medications that replace the hormonest hat a remissing. Medication needs to be taken for the rest of your life, and may be increased in times of stress.

Medicationsmayinclude:

- Cortisoneacetate
- Hydrocortisonetablets
- Fludrocortisoneacetate(Florinef)

Immediatetreatmentofadrenalcrisisincludes:

- Hydrocortisone
- Saltwater
- Sugar

Maintenance: Seeyourdoctorregularly forblood tests to monitory our response to medication. We aramedical alert bracelet incase of an emergency.

Prevention

There are no guidelines for preventing Add is on's disease. If you think you are a trisk for Add is on's disease, talk to your doctor about how to diagnose and manageyour symptoms.

RESOURCES:

NationalInstituteofDiabetesandDigestiveandKidneyDiseases http://www.niddk.nih.gov

TenS,NewM,MaclarenN.ClinicalReview130:Addison's disease.

JClinEndoMetabol .2001;86:2909-922.

REFERENCES:

Addison's disease: a drenalinsufficiency. National Institute of Diabetes and Digestive and Kidney Diseases website. Available at: http://www.niddk.nih.gov/health/endo/pubs/addison/addison.htm. Accessed October 7, 2005.

ArltW, AllolioB. Adrenalinsufficiency. Lancet .2003May31;361(9372):1881-93.

TenS,NewM,MaclarenN.ClinicalReview130:Addison's disease. JClinEndoMetabol .2001;86:2909-922.

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