Possible Reactions to Natural Rubber Latex

IRRITATION

Also known as: Irritant Contact Dermatitis (Non-Allergic).

Causes: Unrinsed scrubs, soaps and disinfectants: excessive powder; occlusion; hyperhydration; excessive chemical additives: insufficient post-processing.

Onset: Minutes to hours.

Initial sensory reaction: Itching or burning.

SYMPTOMS

Acute: Redness; burning; itching.

Chronic: Dry, thickened skin; cracking; sores; spaced bumps.

Extent: Stops at glove boundary.

Predisposition (History of Allergies): No.

Respiratory involvement: No (except as irritant trigger).

Facial involvement: Only if face is touched.

Systematic involvement: No.

How acquired: Skin contact (Natural Rubber Latex or Synthetics).

Life Threatening: No.

Action: Rinse hands thoroughly after washing; implement hand care regimen; select a different type of glove; select a glove low in chemical additives or post-processed for chemical neutralisation.





DELAYED TYPE HYPERSENSITIVITY

Also known as: Allergic Contact

Dermatitis; Type IV.

affected: 7 - 14.7%.

Onset: 6 to 48 hours.

first:- continuing to pain.

SYMPTOMS

respiratory response).

Latex or Synthetics).

Life Threatening: No.

Systematic involvement: No.

sensitisers (latex or non-Latex).

redness; pain.

spaced bumps.

Causes: Scrubs, soaps and

accelerators; preservatives.

disinfectants; glove chemicals;

Approximate % of population

Initial sensory reaction: Itching

Chronic: Dry, thickened skin; cracking; sores;

Extent: May extend beyond glove boundary.

Predisposition (History of Allergies): Yes.

Facial involvement: Only if face is touched.

How acquired: Skin contact (Natural Rubber





Action: 'Immediate Care Prepare' for anaphylactic emergency; see an allergist; work in a powder free environment; select a non-latex glove; if patient, flag chart for latex free care; if at risk, but without symptoms, wear low protein allergen non-powdered gloves.

REACTION TO NATURAL RUBBER LATEX

ALLERGY TO CHEMICALS IN GLOVES (ACCELERATORS)

Action: See a Dermatologist; select a glove proven low in chemical contact



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Also known as: Uritcaria; Type I.

Causes: Proteins in the Natural Rubber Latex 'sap' from the rubber tree, Hevea Braziliensis.

Approximate % of population affected: General population: 0.8-6%. Hospital population: 3 - 12%.

Onset: Seconds to an hour or more.

Initial sensory reaction: Itching, tingling.

SYMPTOMS

rate.

Chronic: Anaphylactic shock.

Extent: May extend beyond glove boundary and become systematic.

Predisposition (History of Allergies): Yes.

Respiratory involvement: Yes - runny nose; difficulty breathing; asthma; wheezing; tightening of throat.

Facial involvement: Yes - Swelling of eyelids, lips, face; tearing, itchy eyes; runny nose regardless of contact location.

Systematic involvement: Yes - hives; swelling; watery eyes; runny nose; difficulty breathing; abdominal cramps; dizziness; low blood pressure; rapid heart rate; Anaphylactic shock.

How acquired: Skin / mucous membrane contact, invasive procedures; injection; inhalation of aerosolised allergen (e.g. on powder) (Natural Rubber Latex).

IMMEDIATE TYPE HYPERSENSITIVITY

Acute: Hives; swelling; watery eyes; runny nose; difficulty breathing; abdominal cramps; dizziness; low blood pressure; rapid heart





Life Threatening: Yes

ALLERGY TO PROTEINS IN NATURAL RUBBER LATEX

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