

Very Severe Hypertriglyceridemia (TGL ≥ 1000 mg/dL): Management - Adult - Inpatient/Ambulatory/Emergency Department Guideline Summary

Target Population: Adult patients (age ≥ 18 years) with very severe hypertriglyceridemia (triglycerides ≥1000 mg/dL)

Full Guideline: Very Severe Hypertriglyceridemia (TGL ≥ 1000 mg/dL): Management - Adult – Inpatient/Ambulatory/Emergency Department

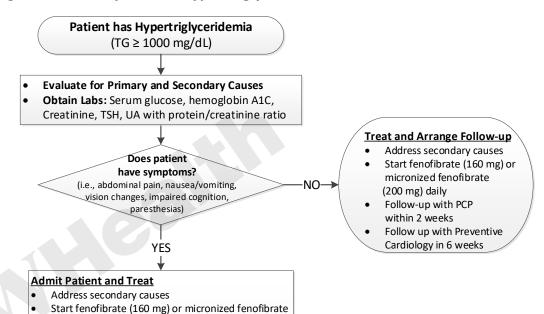
Management of Very Severe Hypertriglyceridemia

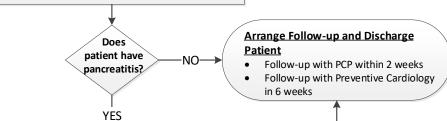
Primary and Secondary Causes of Hypertriglyceridemia **Primary Causes Secondary Causes** • Familial combined Untreated/poorly hyperlipidemia controlled diabetes mellitus • Lipoprotein lipase deficiency Obesity Familial High fat/high carbohydrate/high caloric dysbetalipoproteinemia Apolipoprotein CII deficiency Excessive alcohol • Apolipoprotein C-III excess consumption • Familial chylomicronemia Hypothyroidism syndrome Nephrotic syndrome Pregnancy • Medications (see table below)

Common drugs/medications that can raise triglycerides β-blockers Protease inhibitors Loop diuretics Glucocorticoids Tacrolimus Estrogens Progestins Cyclosporine Tamoxifen Atypical antipsychotics (e.g., clozapine, • Androgenic steroids olanzapine) • Retinoids, isotretinoin Valproate Thiazide/thiazide-type Alcohol diuretics

Consideration for Plasmapheresis if ACE-I Usage		
ACE-I usage	SIRS ≥ 2	SIRS = 0 or 1
No ACE-I taken in past 24 hours	Favors performing plasmapheresis	Consider plasmapheresis
ACE-I taken within past 24 hours*	Consider plasmapheresis with extra caution	Favors deferring plasmapheresis

^{*} If plasmapheresis is performed within 24 hours of last ACE inhibitor dose, must be done in IMC or ICU setting only after multidisciplinary consultation and patient informed consent





Consider Plasmapheresis

(200 mg) daily

hyperglycemic

infusion) if hyperglycemic

Patient should be NPO

- Consult Pathology/Transfusion Service for plasmapheresis
- Consult Interventional Radiology for line placement

Obtain diabetes management consultation if

Start glycemic control (e.g., metformin, insulin

Obtain nutrition consult for very-low fat diet