delta-SG mutation

gene/cell therapy

- loss of delta SG3/sarcospan complex in SR
  - conformational change in SERCA
  - increased passive calcium efflux from SR

omega-3 rich diet

- loss of SGC and other DGC components in skeletal/cardiac muscle
  - disrupted SG-integrin signalling
  - adrenergic stimulation
  - sarcolemmal instability
  - muscle contraction
  - increased renin
  - increased angiotensin I

ACE inhibitors

- loss of SGC and other DGC components in vascular smooth muscle
  - inhibits creation of increased angiotensin II

verapamil

- increased cytoplasmic calcium concentration
  - increased calcium influx
  - decreased Srs kinase
  - mitochondrial swelling
  - increased ROS

Dehydro2S

- activation of calpains
  - inhibits

increased ROS

scavenges
Tiron

- sarcopenia

activation of proteases

- compensates for defects in oxidative phosphorylation

PP2

- inhibits

oral steroids

- reduces inflammatory infiltration

Losartan

- increased NO

- reduction in NO

- reduction in NOS

- inhibits

- vasospasm
  - ischemia
  - increased ROS
  - increased TGFbeta signalling

- focal necrosis of myocytes
  - fibrosis
  - phagocytosis and muscle regeneration

- muscle degeneration

- increased sarcopenia

- muscle weakness