Gynecomastia

-Dr.sindhu priyanka.D

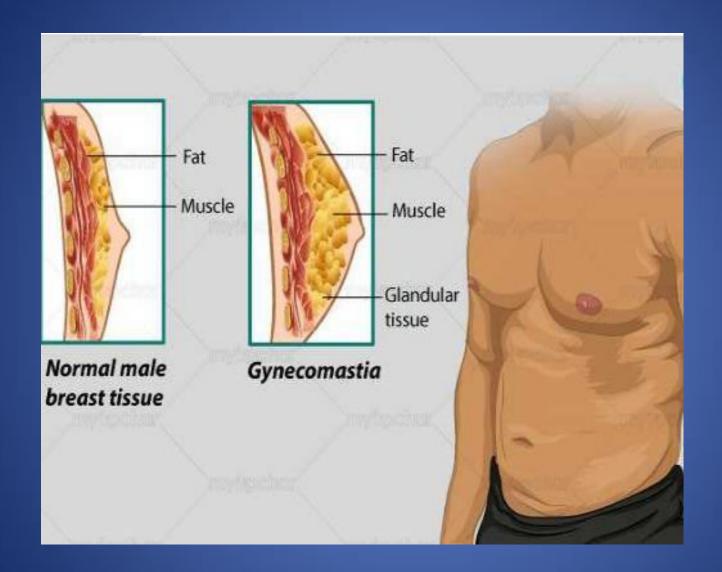
Consultant plastic and reconstructive surgeon

Gynecomastia refers to any enlargement of the male breast due to a proliferation of ductal, stromal, and/or fatty tissue

Pseudo gynecomastia

One of the top 5 esthetic procedure in pracitce

Asymptomatic –
neonates(60-90%)
puberty(60-70%)
increasing age(20-65%)



Causes of gynecomastia

Physiologic	neonatal		
	adolescent		
8	aging-related		
Drug-induced	antihypertensive agents		
	antibiotics		
	hormones		
	drugs		
	gastrointestinal agents		
	antiandrogens		
Decreased androgens	primary (testicular) hypogonadism		
	secondary (central) hypogonadism		
	androgen insensitivity syndrome		
	5α-reductase deficiency		
	17β-hydroxysteroid dehydrogenase deficiency		
	Klinefelter syndrome		
Increased estrogens	adrenal/testis tumor		
	testicular tumor		
	human chorionic gonadotropin-secreting tumor		
	familial aromatase excess syndrome		
	(obesity)		
Other	malnutrition		
	cystic fibrosis		
	alcoholism		
	psychologic stress		
	myotonic dystrophy		
	herpes zoster infection		

lable 2

Medications Implicated in Gynecomastia

Hormoses

Androgens Chorionic gosadotropin Diethylstilbestroi

Progestins Testastorane

Flutamide

Estrogens (including topicals)

Antisecropera

Finasteride

Bn-RH analogs

Antimicrobials

isoniarid Ketoponazole Metronidazole

Antirettux drage

Cirretidine

Dreagrazole

Cardiovascular drags

Calcium channel blockers Captopril Methyldopa Reserpine

Digesin

Spronslucture

Psychiatric trugs

Beneducepres (daiepen) Phenothazines (thoridazine)

Tricyclic antidepressants

Orugs of abase

Alcohol

Opiates/opialeto (Necom, methodore)

Anghetamines Anabolic storpids

Marijaana (sespected)

AIDS and HAART chomotherapy

Antiretrovirals (especially etwinent and didenosine)

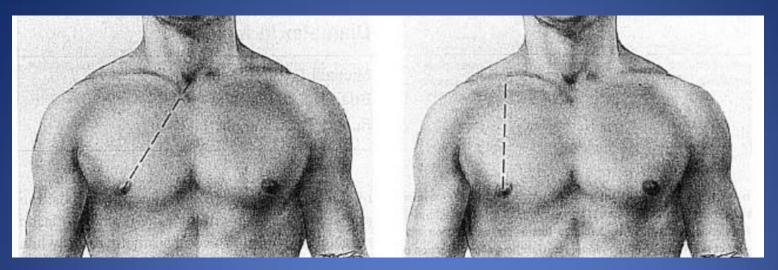
Miscellaneous

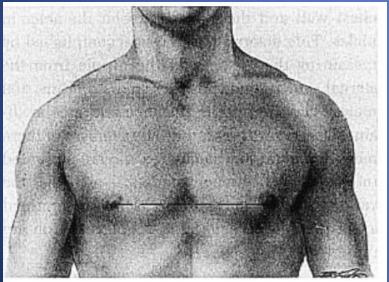
Periciflamine

Phenyboin.

Go-BH: penalerogia-releasing horsone: HAART: highly across assistancing! recessors.

Source Reference 17, 23





(A) The average distance from the sternal notch to the nipple is 20 cm, range 19 to 21 cm. (B) The average distance from the midclavicular line to the nipple is 18 cm, range 17 to 21 cm. (C) The average internipple distance is 21 cm, range 20 to 24.5 cm.

CLASSIFICATION

- Simon classification
- Grade 1-Small enlargement, no skin excess
- Grade 2aModerate enlargement, no skin excess
- Grade 2bModerate enlargement with extra skin
- Grade 3Marked enlargement with extra skin

Simon BE, Hoffman S, Kahn S. Classification and surgical correction of gynecomastia.
 Plast Reconstr Surg 1973;51:48.

- Rohrich classification
- Webster classification

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- history
- Clinical examination
- What the patient desires...
- Classify the grade
- Counseling of patient
- Preoperative marking
- Post operative care

Pharmacological Treatment

- (1) blocking the effects of estrogens on the breast (e.g., clomiphene, tamoxifen, raloxifene),
- (2) administering androgens (e.g., danazol),
- (3) inhibiting estrogen production (e.g., anastrozole, testolactone).

Liposuction



More of an art The superficial layer is composed of small dense pockets of fat separated by vertical well-organized fibrous septa. The deeper fat layer is organized more loosely, with looser areolar fatty tissue interspersed with less regular fascial septae intervening between the pockets.

Vertical septa originate from the fascia and extend upward toward the dermis

Technique of liposuction





Infiltration Liposuction

Quito formula for infiltration

Areas to be liposuctioned	Body surface,	Total body surface for liposuction, %	Constant volume, mL	Approximation of the total volume (mL) to infiltrate subcutaneously for each area		
Neck	1	1		168		
Breast, each one	2.5	_	2.4	_		
Arm, each one	2	4	2.4	336 + 336 = 672		
Upper abdomen	4.5	4.5	2.4	756		
Lower abdomen	4.5	4.5	2.4	756		
Flank/hip, each one	4	8	2.4	672 + 672 = 1344		
Upper back	4	4	2.4	672		
Lower back	4	4	2.4	672		
Buttock, each one	3	-	2.4	-		
Inner thigh, each one	2	-	2.4	-		
Anterior thigh, each one	2	-	2.4	-		
Lateral thigh, each one	2	-	2.4	-		
Back thigh, each one	2	-	2.4	-		
Knee, each one	1	-	2.4	-		
Leg, each one	6	-	2.4	-		
Weight: 70 kg						
Total percentage of body surface for	71	30				
*Volume of solution to infiltrate = weight (kg) \times percentage of body surface for liposuction \times 2.4 (mL)						

GRADE 1



MILD VARIANT
LIPOSUCTION
ALONE +/_
EXCISION

Atiyeh, B. S., Chahine, F., El-Khatib, A., Janom, H., & Papazian, N. (2015). Gynecomastia: Simultaneous Subcutaneous Mastectomy and Areolar Reduction with Minimal Inconspicuous Scarring. Aesthetic Plastic Surgery, 39(6), 916-921. doi:10.1007/s00266-015-0567-8



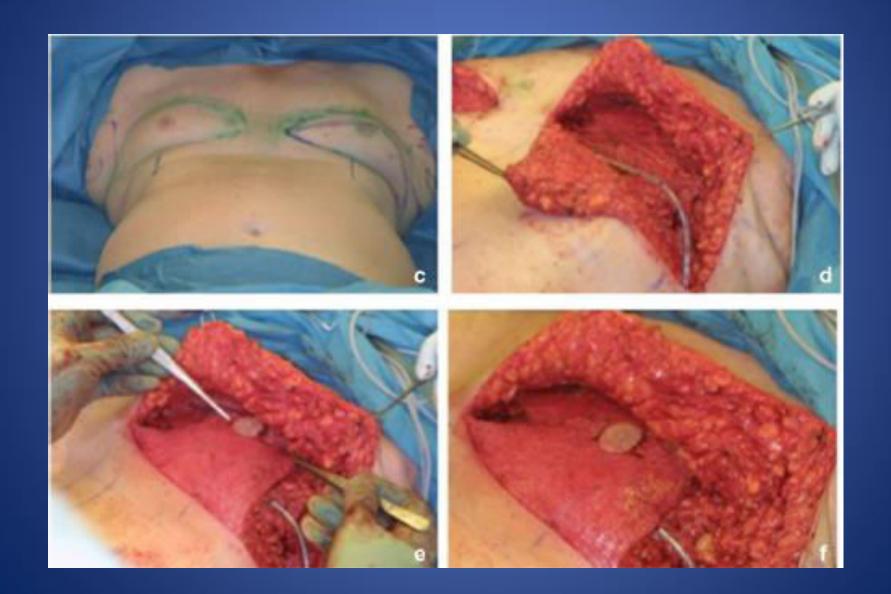


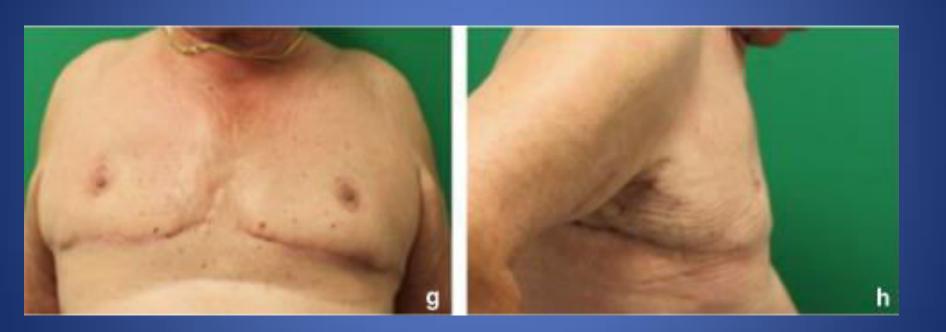


Severe gynecomastia



Inferior pedicle breast reduction



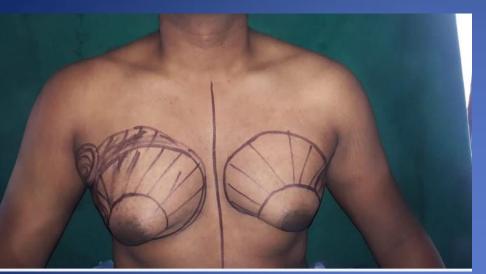




Post bariatric weight loss



Bilateral gynecomastia with markings







After liposuction and gland excision





Unilatrael gynecomastia











Infiltration

Tumesence
1ltr RL+10ml of
0.5%bupivacaine+10ml of 2%pliain
xylocaine+1 ampule of adrenaline



sub aerolar incision





Immediate postop





Pod 5



2 weeks postop





postop care

adequate analgesia
antibiotics
compression garment
avoiding heavy weights
and pec exercises





Thankyou