Marc E. Gottlieb, MD, FACS

A Professional Corporation



Board Certification ••• ••• Plastic Surgery ••• Hand Surgery ••• General Surgery









Specializing in the treatment, reconstruction, and management of

Acute and chronic wounds • Diseases and defects of the soft tissues • Injuries, diseases, and defects of the hand and extremities • Defects of the head and trunk

Office: 1415 N. 7th Avenue • Phoenix, AZ 85007

Phone 602-252-3354

Fax 602-254-7891

megott@arimedica.com

Marc E. Gottlieb, MD, FACS

1415 N. 7th Avenue Phoenix, AZ 85007

Phone 602-252-3354 Fax 602-254-7891

megott@arimedica.com

Copyright © 2005, Marc E. Gottlieb, MD

Content may be used for non-commercial educational purposes.

Content may not be published or used for commercial purposes without prior license or permission.

Marc E. Gottlieb, MD, FACS

COMMON PROBLEMS AND SENSIBLE MANAGEMENT



Arizona Geriatrics Society – 2005

17th Annual Fall Conference & Symposium

WOUNDS IN GERIATRIC PATIENTS

Common Problems Made Prevalent Common Problems Made Difficult Unique Problems







WOUNDS IN GERIATRIC PATIENTS

Common Problems Made Prevalent Common Problems Made Difficult Unique Problems





WOUNDS IN GERIATRIC PATIENTS

Common Problems Made Prevalent Common Problems Made Difficult Unique Problems





Section A



INTRODUCTORY CONCEPTS

CERIATRIC WOUNDS



WOUNDS



Basics of Good Care

management principles
diagnosis
acute care
chronic care
technologies & modalities



GERIATRICS



Changes with Age

physiological
physical
functional
neurological & psychiatric
social & economic

CERIATRIC WOUNDS

Changes with Age Which Predispose to Wounds and Wound Problems

Increased Risk

tissue atrophy
altered circulation
edema
co-morbidities
progressive pathology
illness & hospitalization

regulatory insufficiency in non-linear systems

Diminished Care

weight
strength
eyes & ears
arthropathies
motor function
loss of mobility
intellectual & dementia
psychiatric

Diminished Resources

loss of family & friends
loss of familiar venue
economic insecurity
insufficient finances
loss of transportation
personal management

conflicts with other rx

Section B

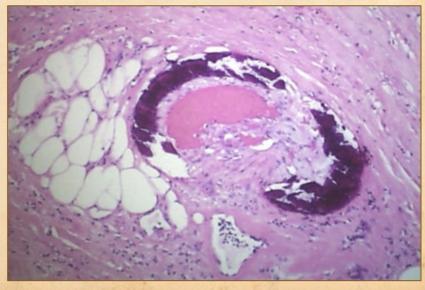


THE DISEASES AND THE DIAGNOSES

Common Causes and Diagnoses

ATHEROSCLEROSIS





GERIATRIC WOUNDS ATHEROSCLEROSIS COMMON DIAGNOSES



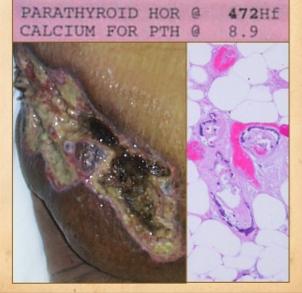












Common Causes and Diagnoses

CANCER





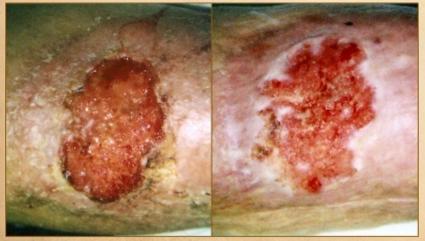
GERIATRIC WOUNDS

CANCER

COMMON DIAGNOSES









Common Causes and Diagnoses

TRAUMA





GERIATRIC WOUNDS

TRAUMA

COMMON DIAGNOSES

COMMON CAUSES

Falls & Impacts
Bruises & Hematomas
Avulsions & Lacerations
Burns & scalds
Fractures

GENERAL STATUS

Disabilities causing increased risk of injury

Diminished capacity & compliance with care

Wound healing usually normal





GERIATRIC RISKS

Frailty
Diminished capacity
Impaired vision-hearing
Impaired mobility
Impaired balance
Altered posture
Tremors & neuro

Skin atrophy & fragility
Problematic drugs
Osteoporosis

Dependence Dementia

Common Causes and Diagnoses

VENOUS, EDEMA, POSTURAL





GERIATRIC WOUNDS

VENOUS, EDEMA, POSTURAL

COMMON DIAGNOSES

Venous stasis - hypertension, Postural edema, Inflammatory edema, Dermatitis
CHF-COPD-HTN, Renal, Liver, Immune, Coagulopathy, Various Dx, Obesity, Disability, Psychosocial







Common Causes and Diagnoses

PRESSURE & CONTACT





PHYSICAL

Afferent neuropathy (sensation)
Efferent neuropathy (palsy)
Acute & chronic disabilities
Psycho-socioeconomic factors

Pressure
Tension - shear
Motion
Musculoskeletal anatomy
Skin injury
Dermatoses
Anatomical pathology
Posture biomechanics

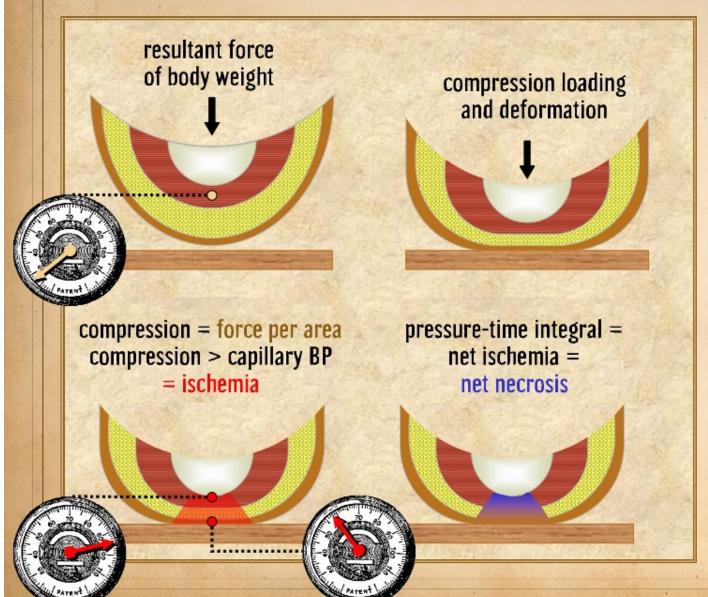
CLINICAL

Pressure ulcer
Shear ulcer
Closed pressure bursa
Contact ulcer
Burns and injury
Intertriginous ulcer

Urinary fistula
GI fistula
Spinal abscess
Pelvic abscess
Inflammatory bowel disease
Hidradenitis & pilonidal

BEDSORES SADDLE SORES OTHER PERINEAL ULCERS

PRESSURE ULCERATION



Efferent neuro deficits

Afferent neuro deficits can't feel

Psychiatric deficits
no motivation

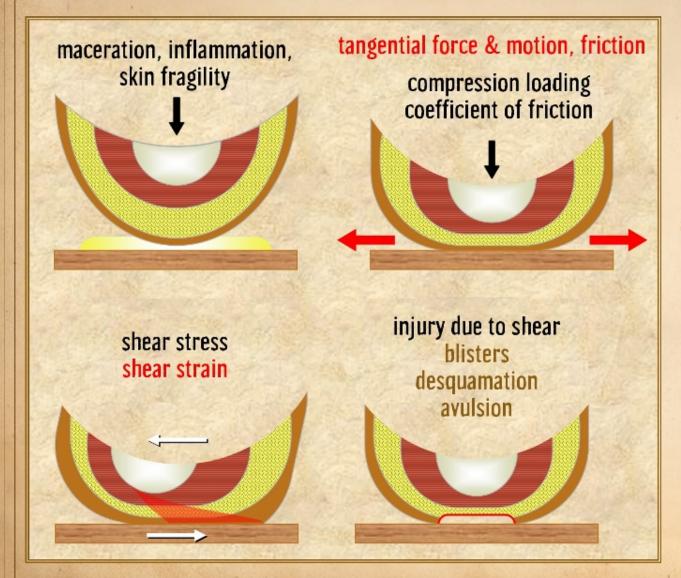
Social deficits
no resources

Adverse biomechanics stress-strain

Repetitive injury

Normal wound healing

SHEAR AND CONTACT ULCERATION



PROPER CONCEPTS and TERMINOLOGY

Pressure ulcer
closed bursa
shear ulcer
contact ulcer
dermatitis
intertriginous ulcer

"Non-pressure"
burns and injury
vascular infarction
iliac aso/pvod
calciphylaxis
coincidental events

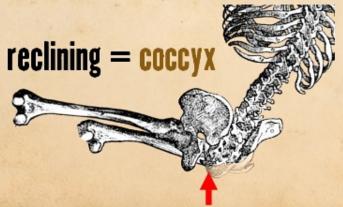
Decubitus

bedsores

other postures































WHERE-THE-SUN-DON'T-SHINE THEATER

PRESENTS

SADDLE SORE TALES

FAREWELL ESCHAR. GO



Presented at a Snail's Pace

Starring

Larry Leadbottom, the Gimpalong Cowboy Billy "Beef Jerky" Buttwound, his sidekick

with

Penelope Pemican, nurse ingenue
Stinky McOdor, the alarmist
Mack Roefage, gold miner
Auntie Biotic, gold digger
Doc Rongeur, problem solver
Dudley Dowrong, ne'er do well
Betty Bursa & Sally Sinus, the chorus
and as the Narrator
"Snake Eyes" Slimy Sluggo









RE MEM BER

Pressure necrosis is full thickness, from skin to bone.

Understand the biology of pressure injury & evolution.

DO NOT CON FUSE

pressure necrosis with other causes of ulceration.

PRESSURE AND RELATED

They are due to complex physical-adaptive & psycho-socio-economic factors.

Pressure and related ulcers are trauma, not disease, and largely benign.

BE EDUCATED. BE PROFESSIONAL. DON'T BE AN ALARMIST.

Be discriminating about anatomy and terms
Make correct diagnosis & means of injury
Ascertain the biomechanics of each ulcer
Understand pressure vs. shear vs. contact

Understand psychological and mental status
Understand physical capacity and needs
Understand family, support, lifestyle
Formulate a comprehensive plan of care

DO FORMULATE AN INTELLIGENT STRATEGIC PLAN OF CARE.

The causes must be relieved, but do not kill the patient with concern.

All must be managed - but - NOT all can nor SHOULD be closed and cured.

Common Causes and Diagnoses

NON-GERIATRIC





GERIATRIC WOUNDS

NON-GERIATRIC COMMON DIAGNOSES

ULCEROGENIC SOFT TISSUE PATHOLOGY

Problems not unique to geriatrics, but which cause more problems with advancing age: more wounds, impaired healing, impaired care.



Diabetes Immunopathic Hematological







SECTION C



CAVEATS, PITTALLS,
AND SPECIAL PROBLEMS IN
GERIATRIC PATIENTS







GERIATRIC WOUNDS MUST OFTEN BE MANAGED WITH A DIFFERENT SET OF PLANS AND PRIORITIES

Changes with Age Which Predispose to Wounds and Problems

Increased Risk

tissue atrophy
altered circulation
edema
co-morbidities
progressive pathology
illness & hospitalization

regulatory insufficiency in non-linear systems

Diminished Care

weight
strength
eyes & ears
arthropathies
motor function
loss of mobility
intellectual & dementia
psychiatric

Diminished Resources

loss of family & friends
loss of familiar venue
economic insecurity
insufficient finances
loss of transportation
personal management
conflicts with other rx





GERIATRIC WOUNDS MUST OFTEN BE MANAGED WITH A DIFFERENT SET OF PLANS AND PRIORITIES

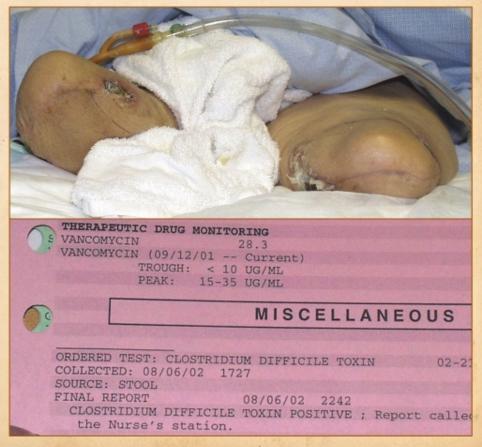




The cost of inexpert care.

The price of unnecessary hospitalization.





THE MAJOR MISTAKES #1





NOT UNDERSTANDING THAT WOUNDS HEAL, BY NATURE.

THE MAJOR MISTAKES #2





PRINCIPLE #1

Healthy wounds and hosts heal. This is normal.

For wounds in healthy people, DO NOT hinder normal wound repair, nor create new injury.

PRINCIPLE #2

When repair is incompetent, or disease is causing necrosis & ulceration, then wounds do not heal.

With chronic and pathological wounds, you must find out what the disease or injury is, or what is inhibiting repair, then correct those problems.

DOING TOO MUCH. DOING WRONG THINGS. DOING UNNECESSARY THINGS.

THE MAJOR MISTAKES #3

Thinking that every wound must be cured. In the panic to "cure" each wound, forgetting to manage it.

Erroneous diagnosis, terminology, and knowledge of the condition.
Ordering lots of irrelevant tests and imaging.

Thinking that everything is an infection. Giving antibiotics.

Putting people in the hospital. Creating panic and fear.

Not controlling injury and disease. Not controlling symptoms.

Missing any of the proper care.

MAKING UNNECESSARY TROUBLE, WHILE NOT DOING NECESSARY CARE.

WOUNDS AND ULCERS IN GERIATRIC PATIENTS

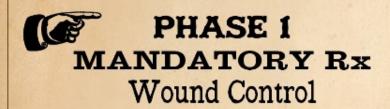
Section D



WOUND MANAGEMENT AND METHODS

WOUND MANAGEMENT - THE BASIC SCHEMA





PHASE 2

DISCIPLIFICATION ALEXY ESSE Definitive Care and Resolution

PHASE 3

Maintenance Care

Control the wound & the disease.

Make the wound healthy, non-threatening, asymptomatic.

identify causative disease and risks refine and reconcile rx

establish good wound hygiene
control topical risks
debride the wound
control edema
treat pathological inflammation

treat contributing disorders
e.g. revascularize, offload,
anti-immune & anti-coagulant therapy

WOUND MANAGEMENT - THE BASIC SCHEMA



PHASE 1

WANDAYOUS ESE
Wound Control

PHASE 2
DISCRETIONARY RX
Definitive Care and Resolution

PHASE 3

Waintenance Care

Plan & implement realistic treatment goals: closure, palliation, or other resolution.

expert evaluation and treatment for related disorders

correct intrinsic wound module deficits stabilize rx of underlying diseases

curative modalities as indicated:

surgery

nursing services

wound stimulatory therapies

devices & drugs

hyperbaric O₂

WOUND MANAGEMENT - THE BASIC SCHEMA



PHASE 1

WANDATOES SEES Wound Control

PHASE 2

DESCRIBITION ALEXY ESSE Definitive Care and Resolution

FOLLOW-UP Rx
Maintenance Care

Maintain control to prevent flare-ups & recurrence.

keep underlying diseases controlled
long term control of edema and inflammation
skin care
rehabilitation
maintain orthotics
periodic surveillance
rapid intervention for flare-ups

"Palliative" or "Maintenance" care for those who cannot be cured, applying the same principles of chronic preventive management, maintaining "control" at all times, never losing control.

Wound Therapies: Basic and Advanced



Basic Rx: Fundamentals of management and preventive care



Wound control and maintenance

Hygiene - Topicals - Dressings - Skin Care
Edema & Inflammation Control
Disease & Injury Control



Advanced Rx: Technology in support of new paradigms of care



Environment regulating therapies

VAC, Promogran & Prisma

Wound stimulatory therapies

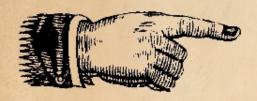
PDGF - Becaplermin, Apligraf

Regenerative therapies

Integra

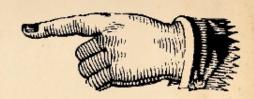
MANAGEMENT TOOLS





The Doctor Prescribes

The Nurse Treats



ALLIED HEALTH

Home health agencies
Nursing services
Social services

Other allied health

Caretakers Family

Care facilities Wound clinics

INDUSTRY SUPPORT

Manufacturers

Medical supply
Durable equipment
Prescription fulfillment

Transportation services

GOVERNMENT

State resources Federal regulations

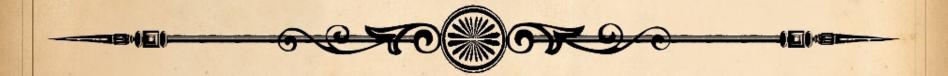
Social resources
Psychiatric services

Insurance issues

Help vs. hindrance Arizona vs. other states

WOUNDS AND ULCERS IN GERIATRIC PATIENTS

SECTION E



HOW-TO'S AND PRACTICAL GUIDES

Rx: A Guide to Manage Select Wounds

BASIC PARADIGMS OF CARE

Wound Hygiene - Dressings - Skin Care - Edema Control - Inflammation





Wound Hygiene - Dressings - Skin Care - Edema Control - Inflammation













BRUISING AND LACERATIONS

Proper management when acute

benign - low acuity reduce and repair convert to graft

Control edema & fragility

skin care edema control compression & protection wrapping

Treat until healed or surgery

basic care until healed - versus - skin grafts

education; long term prevention





POSTURAL AND VENOUS STASIS

Skin care & dermatitis Rx

hygiene; coal tar - keratolytics topical (& oral) steroids medicated dressings NO antibiotics

Control edema & venous HTN

elevation compression more compression personal habits

Continue until healed

transition to compression garments
- or - other suitable edema control

education; long term prevention







ARTERIAL AND ISCHEMIC

Judicious acute care

hygiene & silvadene careful bandaging pharmacology

Revascularize

vascular lab & consultation hyperbaric O₂ surgery

Treat until healed

strategic planning: topical care -vs- surgery to close -vs- amputation

STRATEGIC MANAGEMENT









STRATEGIC MANAGEMENT











PRESSURE INJURY AND ULCERS

Proper management when acute

good hygiene moisture control & skin care practical wound care timely debridement topicals, VAC

Control pressure and contact

bedding splints & orthotics wheelchair & cushion

Resolve disability - dependency issues

strategic planning nursing - family - independence

STRATEGIC MANAGEMENT













STRATEGE FLANTENCE



TO HEAL OR NOT TO HEAL SURGERY OR NOT

HOME VS ECF SUPPORT AND CARETAKERS FINANCES AND EXPENSES

GENERAL HEALTH OF THE PATIENT REALISTIC TREATMENT PLANS QUALITY OF LIFE

WOUNDS AND ULCERS IN GERIATRIC PATIENTS

SUMMARY

Wounds are benign and safe when properly cared for.

Complications and morbidity accrue to overly ambitious inexpert care.

Thoughtful safe care is especially important in elderly or sick patients.

All wounds need control of disease, injury, inflammation, and symptoms.

All wounds need basic hygienic management.

Not all wounds need be healed.

Resource issues are crucial: family, finances, domicile, disabilities, nursing, Co-morbidities, and general health and conditioning must be considered. Case planning and management must consider all such issues.

Safety and quality of life are paramount.



Marc E. Gottlieb, MD, FACS

A Professional Corporation



Board Certification ••• ••• Plastic Surgery ••• Hand Surgery ••• General Surgery









Specializing in the treatment, reconstruction, and management of

Acute and chronic wounds • Diseases and defects of the soft tissues • Injuries, diseases, and defects of the hand and extremities • Defects of the head and trunk

Office: 1415 N. 7th Avenue • Phoenix, AZ 85007

Phone 602-252-3354

Fax 602-254-7891

megott@arimedica.com

Marc E. Gottlieb, MD, FACS

1415 N. 7th Avenue Phoenix, AZ 85007

Phone 602-252-3354 Fax 602-254-7891

megott@arimedica.com

Copyright © 2005, Marc E. Gottlieb, MD

Content may be used for non-commercial educational purposes.

Content may not be published or used for commercial purposes without prior license or permission.

