

# Geriatric Dermatology

Taking the best care of your oldest patients

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# Conflicts of Interest

I have no conflicts of interest regarding material in this presentation...

...except that there are and have been older people in my life who are important to me!



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- I have no conflicts of presentation...
- ...except that there are people in my life who are important to me!
- ... and my husband is



# rest

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# Why geriatric dermatology?

- If you are not a pediatric dermatologist, you are already a geriatric dermatologist
- Just as children are not just small adults, our older patients are not just adults who have lived longer



<https://mcc.gse.harvard.edu/resources-for-families>



<https://www.claudiablackcenter.com/>



<https://www.nih.gov/news-events>

# Learning Goals

- What is geriatric dermatology?
- Why might we want to treat older patients differently?
- What skin conditions are more common in older patients?
- What issues arise with prescribing medications to older patients?
- What is a suggested overall approach to treating older patients?

# Some Terminology

- Geriatrics: Care of older people
- Geriatric dermatology: Applying geriatric principles to dermatology
- What age makes you an older person?
  - The “young” old: 65-74
  - The “middle” old: 75-84



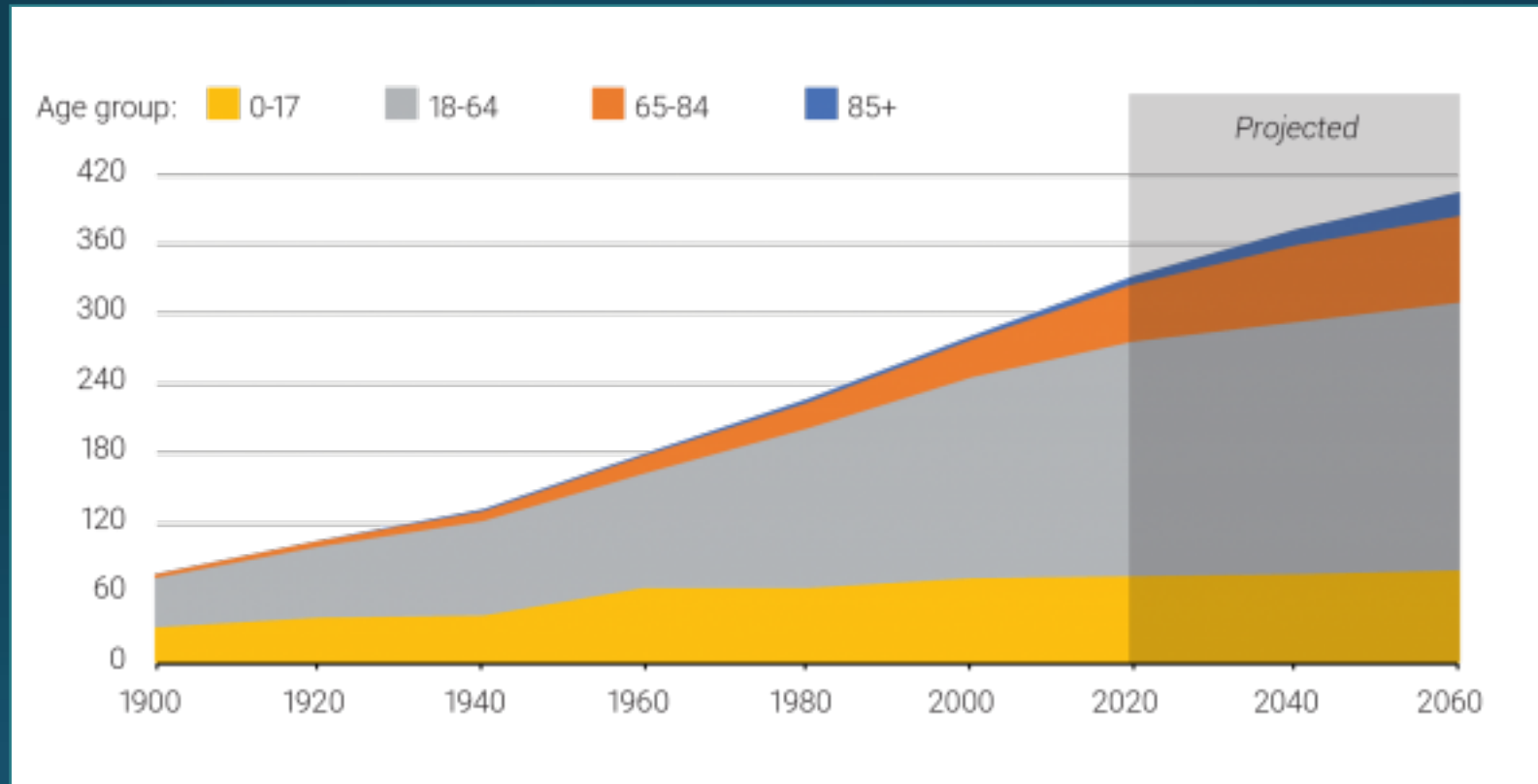
# Some Termin

- Geriatrics: Care of older people
  - Geriatric dermatology: Applying geriatric
- What is the best person?





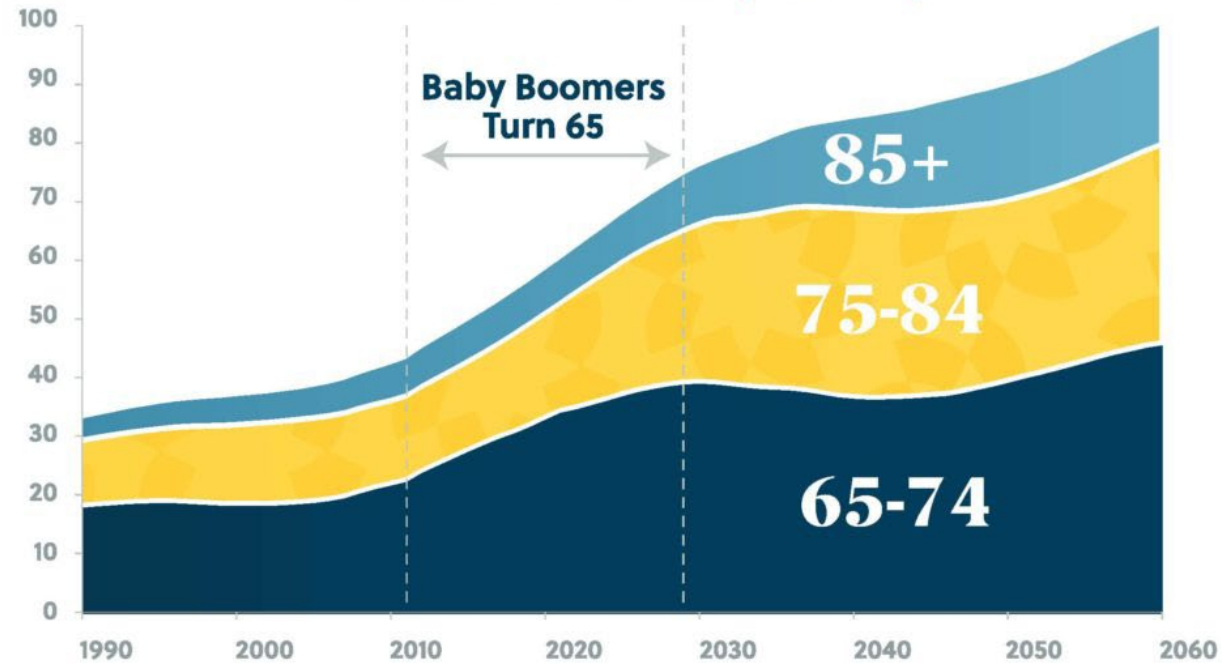
# Aging of US population



# Aging of US population

## The elderly population is growing rapidly and living longer

U.S. POPULATION AGE 65+ (MILLIONS)



SOURCE: U.S. Census Bureau, National Intercensal Estimates, and 2014 National Population Projections, December 2014. Compiled by PGPF

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# What is different about older patients?

## Skin Differences (due to intrinsic aging and environmental factors):

- Changes in epidermal barrier function: decreased skin hydration
- Wound healing: decreased fibroblast function with increased skin and blood vessel fragility, decreased elasticity, and slower wound healing
- Immune function: fewer antigen-presenting cells, shift in immunity toward Th2 predominance
- Lipogenesis: decreased secretion of skin surface lipids, decreased subcutaneous fat
- Vitamin D synthesis: decreased
- Sweat production: decreased

Internal Differences: changes in renal and hepatic function, metabolism, cognition, etc.

# What is geriatric dermatology?

- Geriatric dermatology is application of principles of geriatrics to dermatology



## **Geriatric Dermatology—A Framework for Caring for Older Patients With Skin Disease**

Eleni Linos, MD, MPH, DrPH<sup>1</sup>; Mary Margaret Chren, MD<sup>2</sup>; Ken Covinsky, MD<sup>3</sup>  
*JAMA Dermatol.* 2018;154(7):757-758.

# Principles of Geriatrics Applied to Dermatology

Principle: Life expectancy is more than age

Relevance to Dermatology: How do we approach treatment of conditions that may not cause harm immediately, for example, low-risk basal cell carcinoma?

Example:

- A healthy 80-year-old may expect to live another 10 years, making treatment of low-risk BCC worthwhile
- An 80-year-old with many comorbidities may not live long enough to benefit from treating the same BCC



# Principles of Geriatrics Applied to Dermatology

Principle: Lag time to benefit

Definition: the time between an intervention and the time when improved health outcomes are seen

Relevance to Dermatology: Skin cancer screening examinations

Example:

- Screening an older patient who is healthy may detect skin cancers that would impact their life or health
- Screening older patients who are very ill and not likely to live more than a few years is unlikely to improve their lifespan or functioning



Getty Images

# Ethical issues related to skin cancer screening in older patients

- We know that rates of non-melanoma skin cancer are increasing (5.4 million per year in US), especially in older patients, BUT:
- New York Times study showed 55% increase in biopsies on Medicare recipients between 2005 and 2015
- This was associated with rise of private-equity-backed practices deploying advanced practice providers to nursing homes
- More than 100,000 BCCs are treated each year in patients over 65 who die within one year of treatment
- Study of 121 BCCs biopsied with positive margins showed only 7% grew or recurred after 5 years
- Whom should we be screening and when should we biopsy?

# Principles of Geriatrics Applied to Dermatology

Principle: Risks of polypharmacy and medication adverse effects

Relevance to Dermatology: We prescribe medications that may be of concern in older patients

Considerations when prescribing to older adults:

- Many older people have reduced renal and/or hepatic function
- Certain medications have longer half lives (due to changes in volume of distribution)
- Older patients may be on many drugs making drug- drug interactions more likely
- Activity level and diet and can impact how medications work





# Prescribing medications to older patients

## Beers Criteria

- A list of medications of special concern in older patients
- Developed by Dr. Mark Beers and colleagues at UCLA in 1991
- Began as a list of medications to avoid in nursing home patients
- Later updated and expanded to apply to all older adults



# Prescribing medications to older patients

## Beers Criteria

Five general categories:

1. Potentially inappropriate medications
2. Medications potentially inappropriate in patients with certain diseases (e.g. heart failure, dementia, Parkinson's)
3. Medications to be used with caution
4. Potentially inappropriate drug-drug combinations
5. Medications of concern in renal insufficiency

# Prescribing medications to older patients

## What drugs are of concern in dermatology?

- Sedating antihistamines (hydroxyzine, diphenhydramine, etc.): sedating, anticholinergic (special concern in those with glaucoma or BPH), increased risk of falls, delirium; Even so called “non-sedating” antihistamines can cause sedation in older people. Among second generation antihistamines, fexofenadine is preferred
- Antidepressants (amitriptyline, doxepin): anticholinergic, sedating, may cause hypotension
- Antipsychotics (olanzapine): increased risk of stroke and dementia
- Pain medications (NSAIDs): increased risk of peptic ulcer, GI bleeds, hypertension, renal disease
- Antiseizure medications (e.g. gabapentin): can cause dizziness, somnolence, amnesia, depression, gait disturbance, increased risk of falls; also has interactions with alcohol, antidepressants, opioids, benzodiazepines

# Prescribing medications to older patients

What dermatologic drugs are of concern in patients with renal insufficiency?

- Certain antibiotics:
  - Cephalexin: renally cleared
  - Ciprofloxacin: risk of seizures, confusion, tendon rupture
  - Trimethoprim - sulfamethoxazole: may worsen renal function, cause hyperkalemia
- Methotrexate: increased levels, need to use lower doses
- Spironolactone: hyperkalemia
- Valacyclovir: needs to be renally dosed

Drugs that interact with warfarin: azathioprine, cephalosporins, ciprofloxacin, macrolides, fluconazole

# Prescribing medications to older patients

Principles of prescribing to older patients:

- Prescribe only essential medications
- Avoid high risk medications that can cause delirium, constipation, urinary retention, or have drug interactions
- Start low, go slow
- Be aware of drug interactions
- Identify and address barriers to medication adherence (perceptive, cognitive, organizational)
- Consider comorbidities that can cause adherence problems (e.g. hand arthritis or shoulder immobility)
- Periodically reassess patient's medication list

# Prescribing medications to older patients

## What about biologic therapies?

- Potentially much safer than conventional immunosuppressing drugs due to lack of organ toxicities and drug interactions
- Study of dupilumab in patients over 80 years old showed comparable efficacy and safety to that in younger patients
- Caveat: Increased risk of cutaneous T cell lymphoma in patients treated with dupilumab, particularly in those over age 60
- A systematic review of psoriasis biologics shows they appear to be as effective and safe in patients over 65, though severe adverse events were more common in older patients
- A large registry study in the Netherlands showed a higher rate of biologic drug discontinuation in older patients due to lack of efficacy, but comparable rates of discontinuation due to side effects as in younger patients

# Principles of Geriatrics Applied to Dermatology

## Principle: Cognition

Relevance to Dermatology: Patients with cognitive deficits or dementia may have trouble communicating symptoms, understanding instructions, making informed choices, and cooperating with examination and procedures

Example: Performing a skin biopsy in a patient with dementia may

- cause anxiety for patient
- provoke agitation and behavioral symptoms
- pose a challenge for surgeon to do safely
- lead to difficulties with wound care due to dressings being removed by patient

# Principles of Geriatrics Applied to Dermatology

Principle: Function and mobility

Relevance to Dermatology: Wound healing, office visits, dressing changes

Examples:

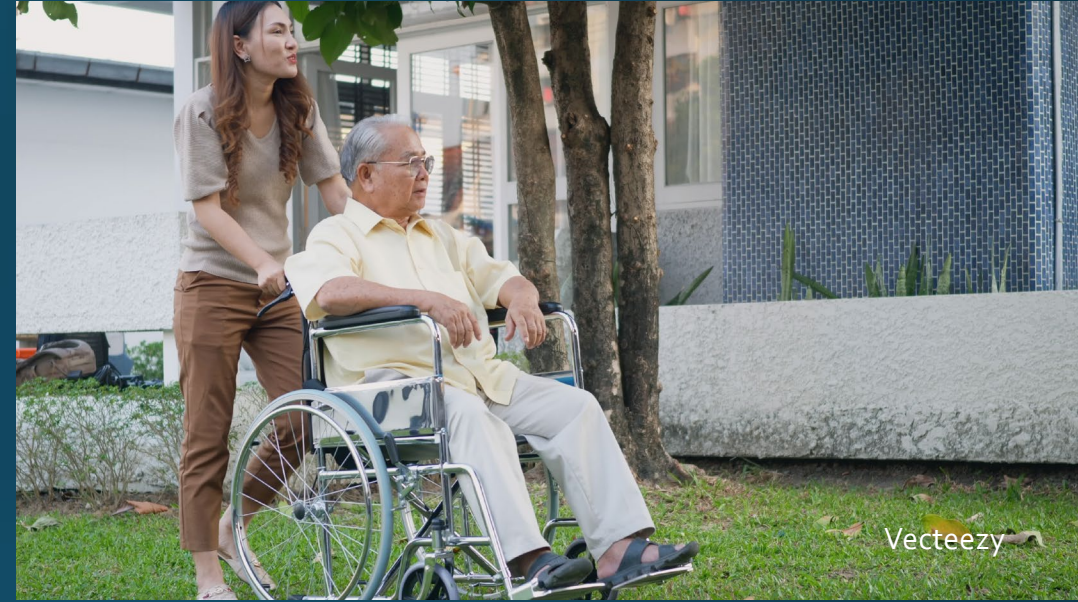
- Wound healing may be slow due to difficulties with dressing changes or wearing compression stockings
- Patients may have difficulty getting to the office if they can no longer drive
- Pressure ulcers may develop due to immobility





# Principles of Geriatrics Applied to Dermatology

Principle: Caregivers and social support  
Relevance to Dermatology: Some older patients depend on family members or caregivers to attend office visits and carry out home care



Examples:

- Patient who needs weekly visits for Unna boot changes but can't drive
- Patient who needs help at home with putting on compression stockings, using topical medications, or performing wound care after surgery
- Patient who is unable to provide their own history

# Principles of Geriatrics Applied to Dermatology

Principle: Patient preferences matter

Relevance to Dermatology: Not every condition we diagnose needs to be treated

Examples:

- Some older patients may wish to treat actinic keratoses whereas others may prefer to leave them alone
- Some patients may be capable of self-treatment at home with topical chemotherapy agents whereas others may not
- Some patients may tolerate discomfort of cryotherapy whereas others may not

# What skin conditions occur more commonly in older patients?



Wikipedia

# Dermatologic conditions affecting older patients

Diminished skin barrier and wound healing:

- Purpura
- Skin tears
- Xerosis
- Pruritus
- Eczematous dermatitis
- Pressure ulcers



*J Clin Aesthet Dermatol.* 2018;11(1):13–18



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# Dermatologic conditions affecting older patients

## Neuropsychiatric:

- Lichen simplex chronicus
- Prurigo nodularis
- Delusions of parasitosis



# Dermatologic conditions affecting older patients

## Infections:

- Tinea pedis/onychomycosis
- Candidiasis
- Zoster and post herpetic neuralgia
- Scabies



# Dermatologic conditions affecting older patients

Inflammatory disorders:

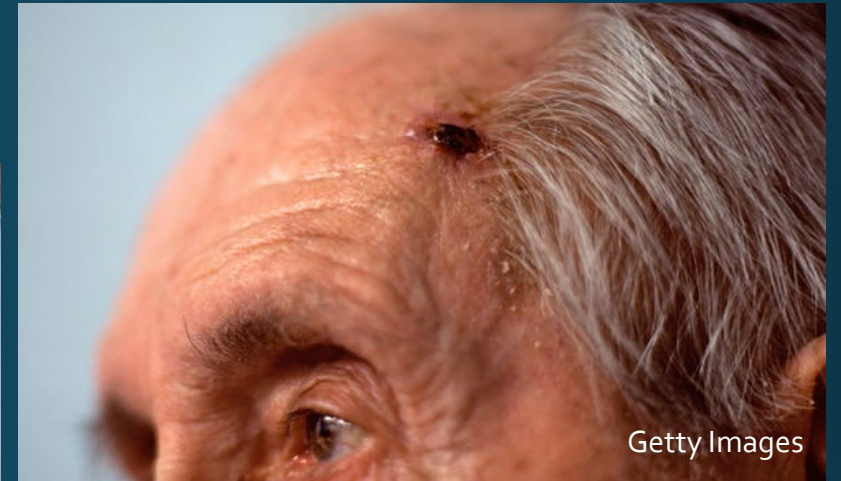
- Bullous pemphigoid
- Stasis dermatitis
- Eczematous dermatitis



# Dermatologic conditions affecting older patients

## Neoplasms:

- Basal cell carcinoma
- Squamous cell carcinoma
- Melanoma
- Seborrheic keratoses
- Lentiginos
- Sebaceous hyperplasia





# Approach to the older patient

From Daniel Butler of Banner Health, formerly of the Geriatric Dermatology Clinic at UCSF:

- Be patient
- Take pressure off initial visit by scheduling close follow ups
- Reconsider everything at each visit
- Communicate uncertainty if you don't know diagnosis at first
- Shared decision making, for example, about whether to escalate therapy or perform a procedure (not all skin cancer has to be treated or treated with a procedure)
- Reframing outcome measures (prioritization of quality of life over cure)

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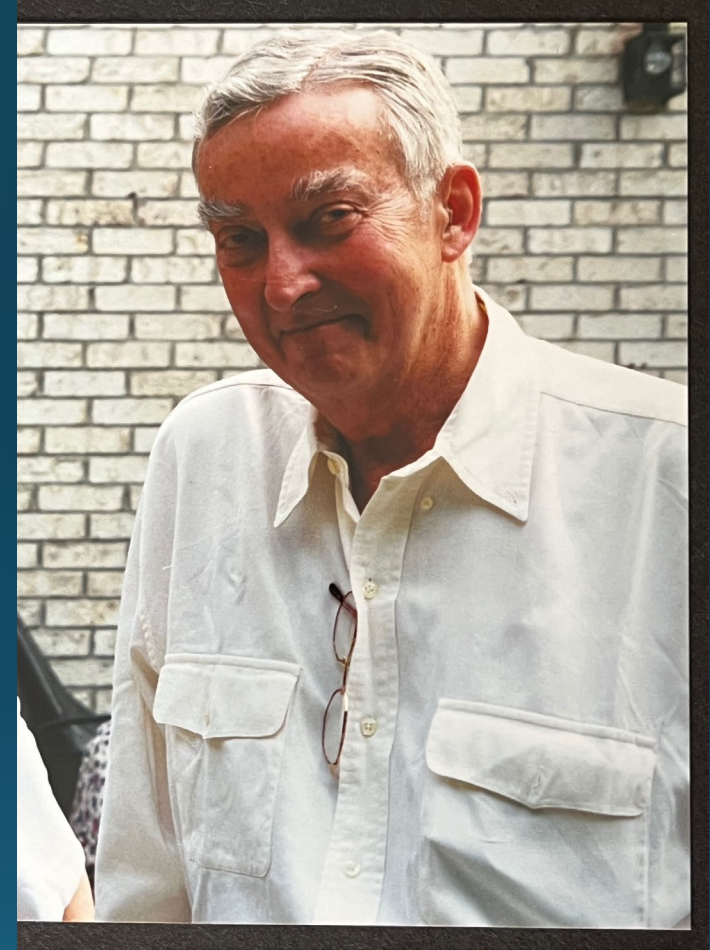
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