

# Nurse Practitioners in Genetics:

Current state and future considerations.

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# Disclosures:

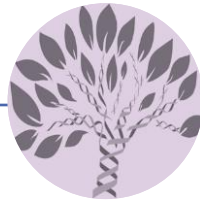
- Clinical faculty for Montana State University's doctorate of nursing practice program.

# Presentation Outline



## What is an NP?

- Education.
- Experience.
- Scope of practice.
- Specialty practice.



## NPs in Genetics

- Benefits of NP in genetics.
- NPs currently in genetics.
- Team models.
- My story.



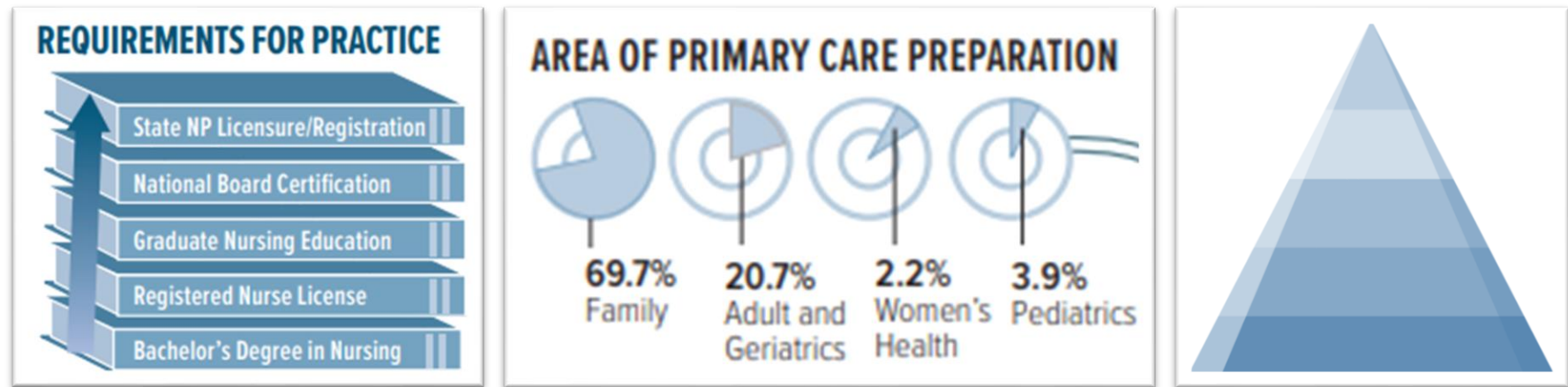
## Keys to Success

- Physician or NP champion.
- NP personality.
- Education and experience.
- Mentorship and teamwork.

# What is an NP?

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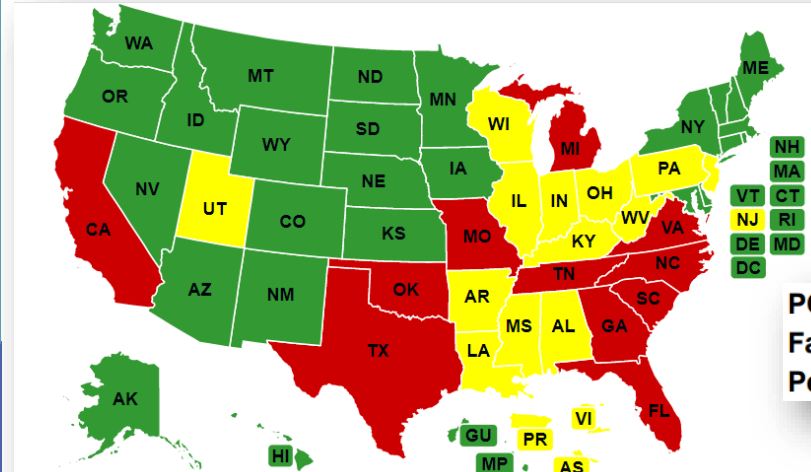
An advanced practice member of the healthcare team trained to evaluate, diagnose, treat, and manage acute and chronic health conditions with an emphasis on disease prevention and health maintenance.



# What is an NP?

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## Scope of Practice



### Legend

Full Practice
Reduced Practice
Restricted Practice

*American Association of Nurse Practitioners, 2022*

## Consensus Model for APRN Regulation: Licensure, Accreditation, Certification & Education

July 7, 2008

*APRN Consensus Work Group & the National Council of State Boards of Nursing  
APRN Advisory Committee, 2008*

## POPULATION-FOCUSED NURSE PRACTITIONER COMPETENCIES: Family/Across the Lifespan, Neonatal, Acute Care Pediatric, Primary Care Pediatric, Psychiatric-Mental Health, & Women's Health/Gender-Related

*Population-Focused Competencies Task Force, 2013*

### [Prev](#) [24.159.1406](#) APRN PRACTICE

(1) The APRN licensed in Montana may only practice in the role and population focus in which the APRN has current national certification. APRN practice is an independent and/or collaborative practice and may include:

- (a) establishing medical and nursing diagnoses, treating, and managing patients with acute and chronic illnesses and diseases; and
- (b) providing initial, ongoing, and comprehensive care, including:
  - (i) physical examinations, health assessments, and/or other screening activities;
  - (ii) prescribing legend and controlled substances when prescriptive authority is successfully applied for and obtained;
  - (iii) ordering durable medical equipment, diagnostic treatments and therapeutic modalities, laboratory imaging and diagnostic tests, and supportive services, including, but not limited to, home healthcare, hospice, and physical and occupational therapy;
  - (iv) receiving and interpreting results of laboratory, imaging, and/or diagnostic studies;
  - (v) working with clients to promote their understanding of and compliance with therapeutic regimens;
  - (vi) providing instruction and counseling to individuals, families, and groups in the areas of health promotion, disease prevention, and maintenance, including involving such persons in planning for their health care; and
  - (vii) working in collaboration with other health care providers and agencies to provide and, where appropriate, coordinate services to individuals and families.

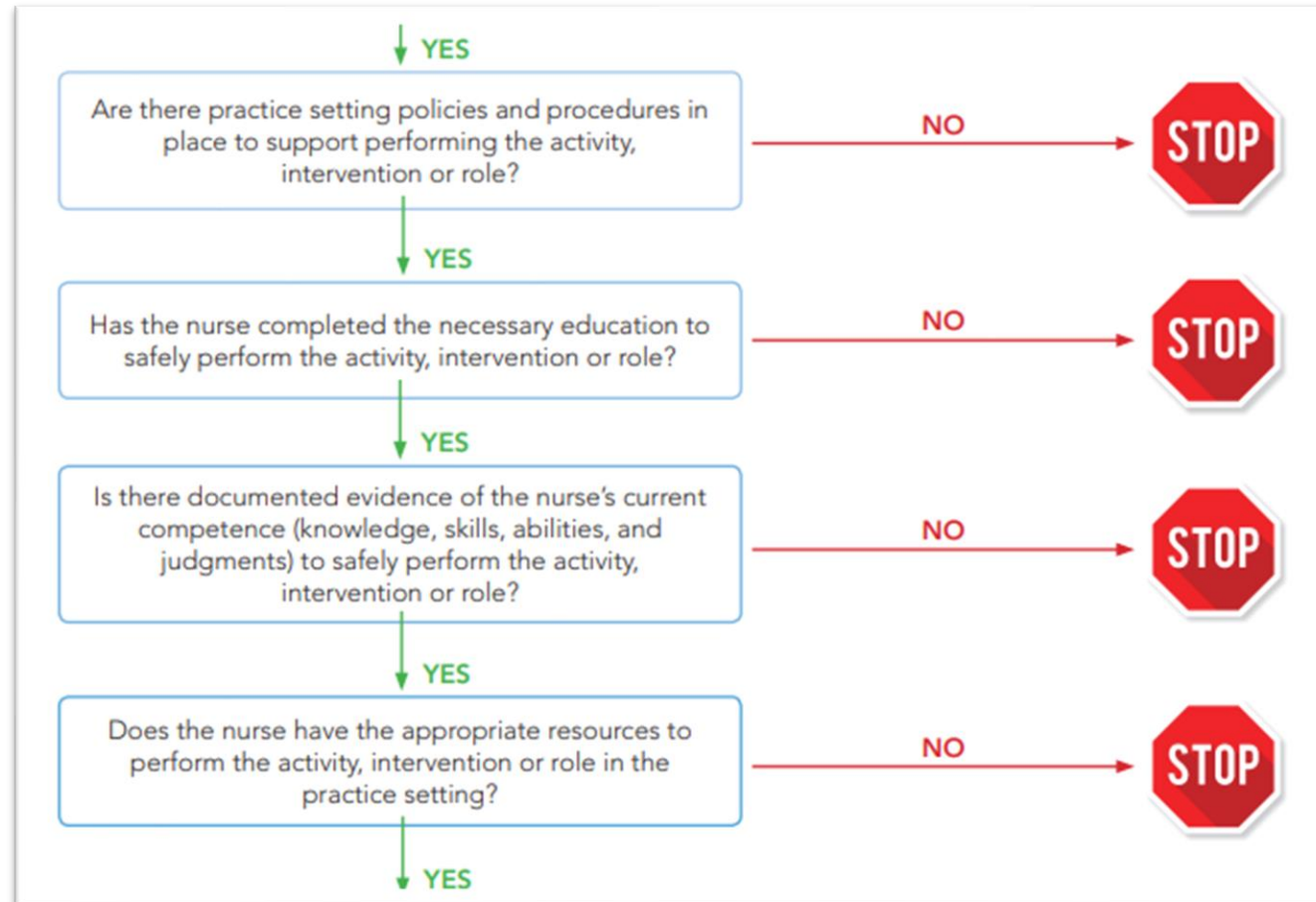
History: [37-1-131](#), [37-8-202](#), MCA; [IMP](#), [37-1-131](#), [37-8-202](#), [37-8-409](#), MCA; [NEW](#), 2013 MAR n 1609 Fff 9/6/13.

*Montana Code Annotated, 2013*

# What is an NP?

## Scope of Practice

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# What is an NP?

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## Current NP Subspecialty Certifications:

- Orthopedics.
- Emergency care.
- Dermatology.
- Oncology.
- Nephrology.
- Cardiology.
- Hospice and palliative care.

## NO NP CERTIFICATION IN GENETICS!



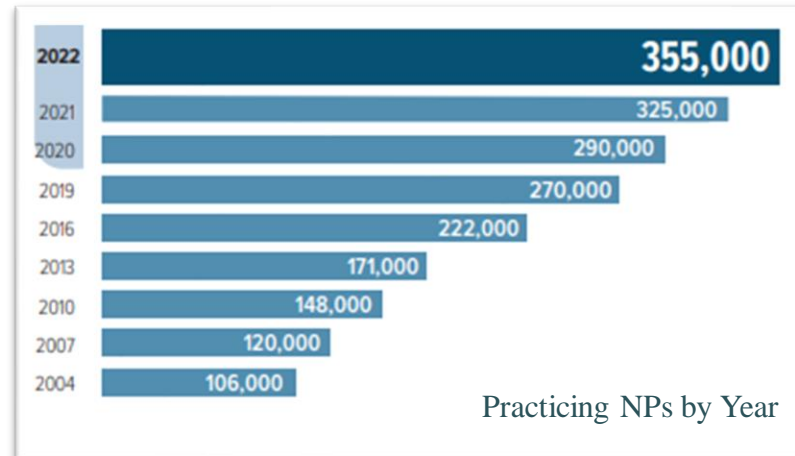
Genetics Fellowship for Family Nurse Practitioners

# NPs in Genetics: Why?

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NPs:

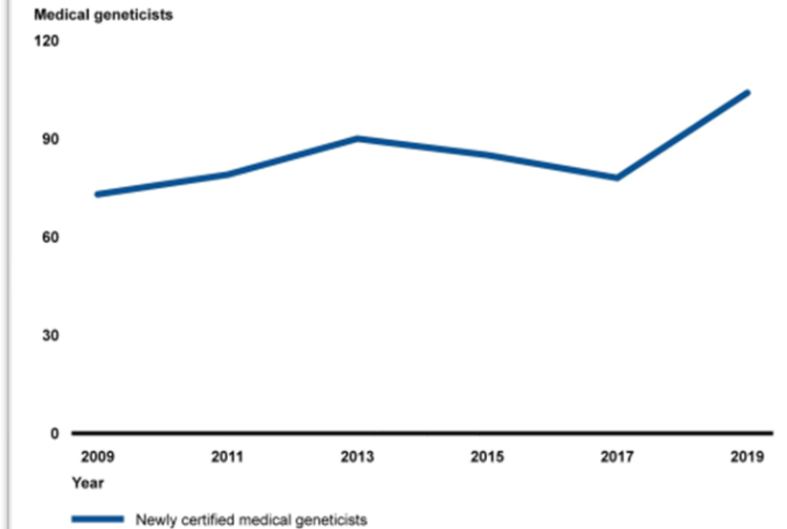
- Add diversity to the genetics team.
- Accessible.
- Adaptable.
- Affordable.
- Approachable.



- More than 36,000 new NPs completed their academic programs in 2019–2020.<sup>2</sup>
- 88.9% of NPs are certified in an area of primary care, and 70.2% of all NPs deliver primary care.<sup>3</sup>

American Association of Nurse Practitioners, 2022

Figure 2: Number of Newly Certified Medical Geneticists, 2009-2019



Source: GAO analysis of data from the American Board of Medical Genetics and Genomics. | GAO-20-593

Data table for Figure 2: Number of Newly Certified Medical Geneticists, 2009-2019

Exam Year	Newly certified medical geneticists
2009	73
2011	79
2013	90
2015	85
2017	78
2019	104

Note: Certification exams are held every 2 years.

In addition, according to data provided by ABMGG, the current number of medical geneticists certified in clinical genetics and genomics in the United States is approximately 1,240, as of April 2020.<sup>27</sup> The medical

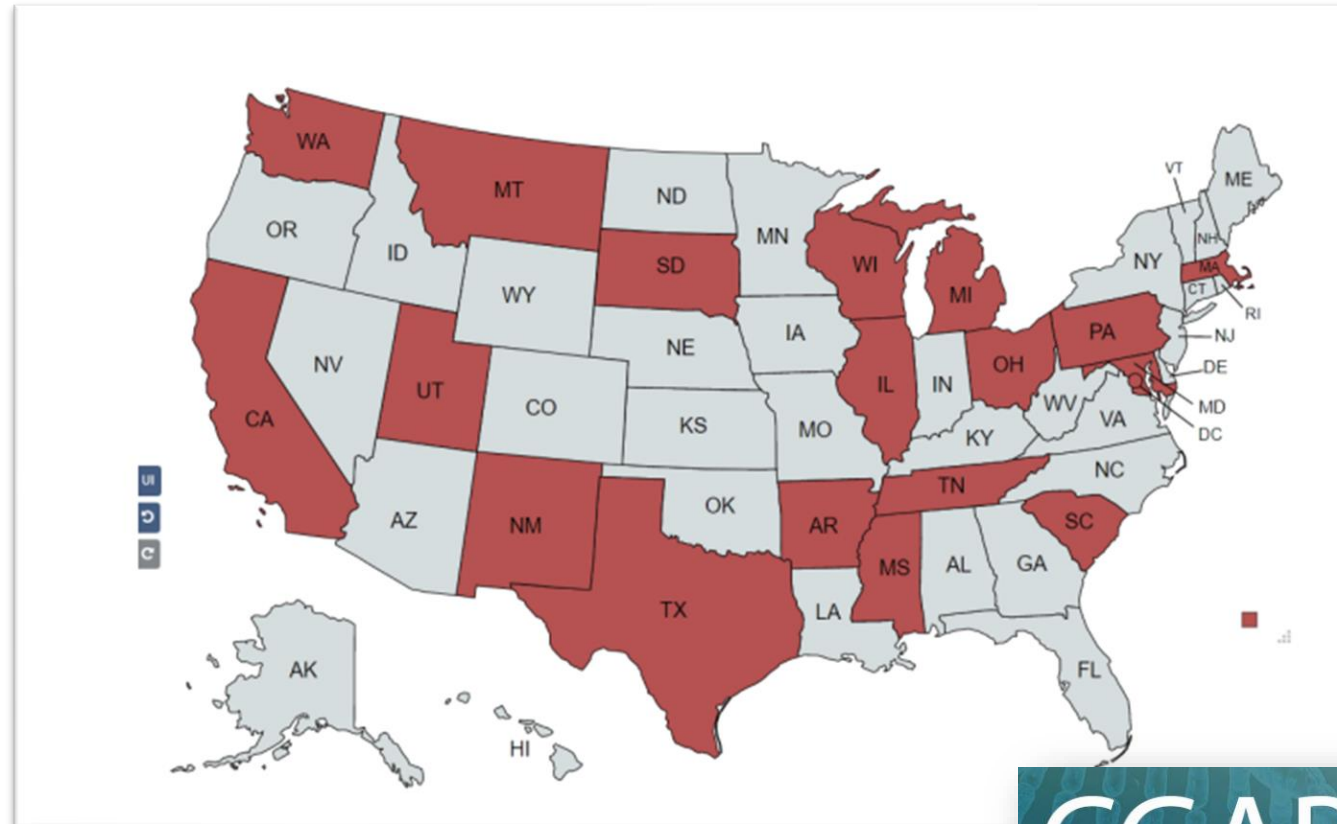
United State Government Accountability Office, 2020



# NPs in Genetics: Currently

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States represented at 2022 CGAPP conference.



## CGAPP 2022

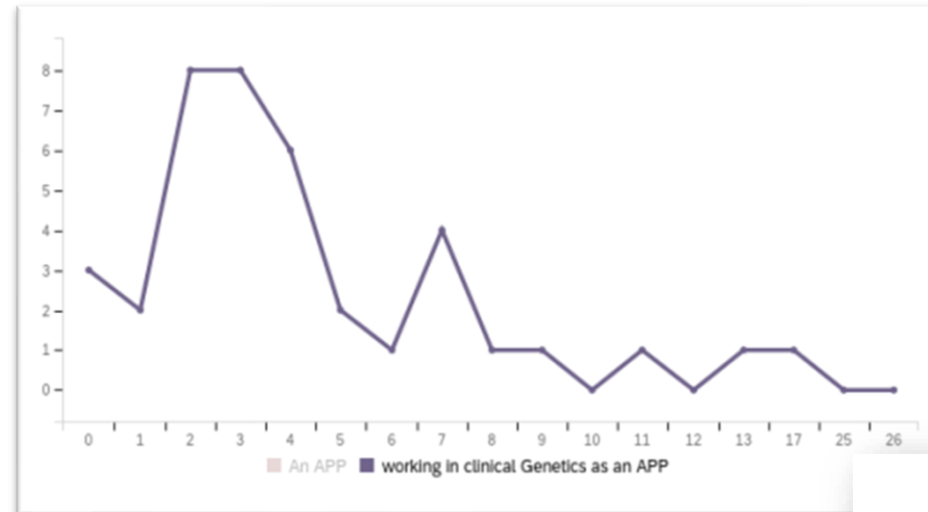
Milwaukee | Sept. 13 - 15

*Clinical Genetics Advanced Practice Providers Conference, 2022*

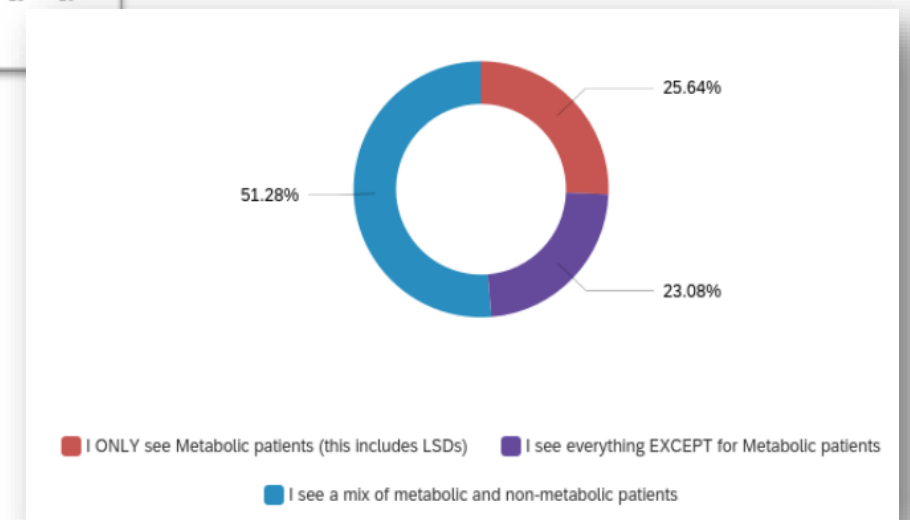
# NPs in Genetics: Currently

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Years in the field of genetics

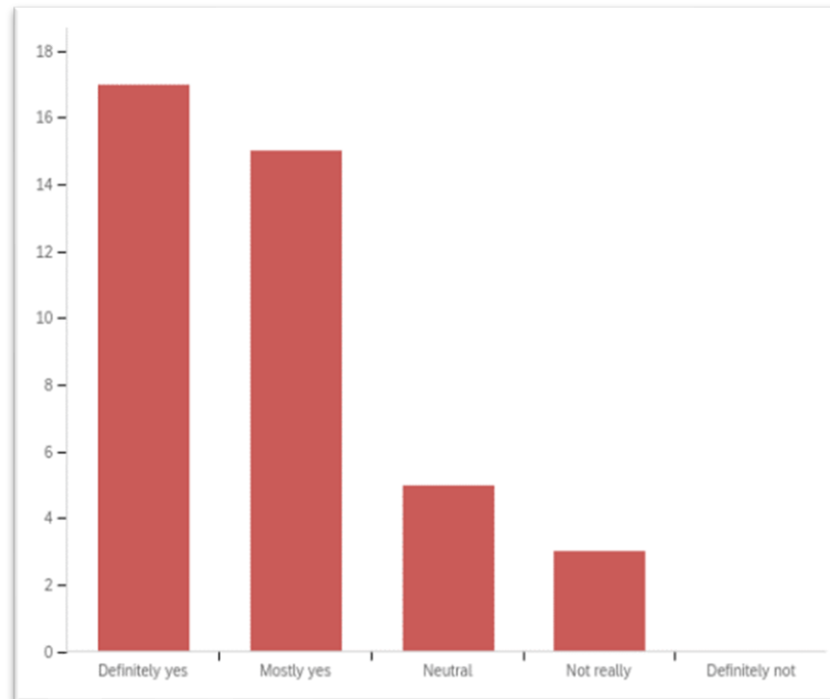


Patient populations

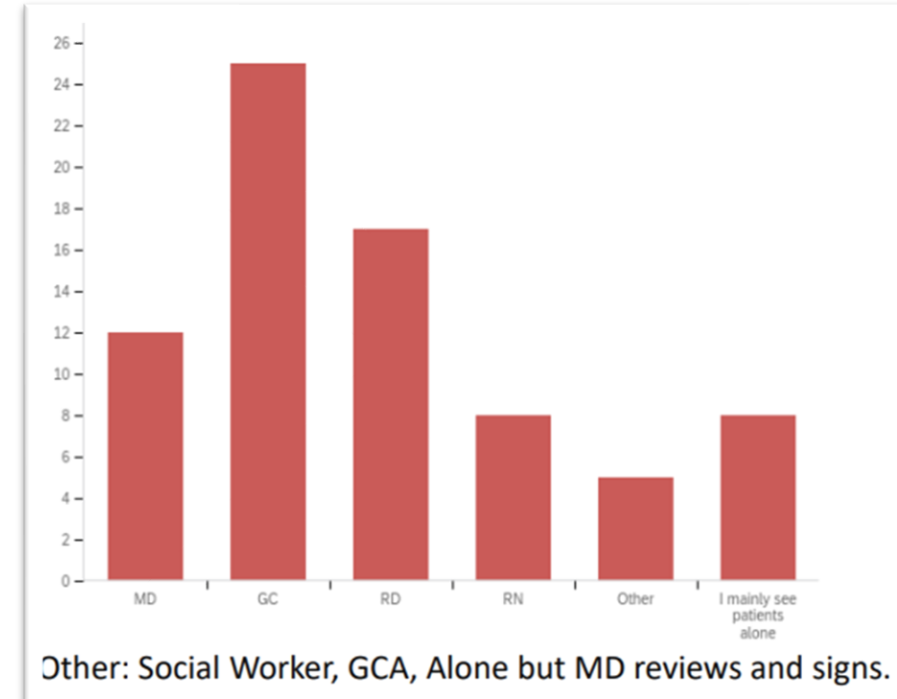


# NPs in Genetics: Currently

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*Do you feel supported?*



Other: Social Worker, GCA, Alone but MD reviews and signs.

*Who do you see patients with?*

# NPs in Genetics: Practice Models <sup>12</sup>

Defined population..... “*The Aspen Model*”



Or.....



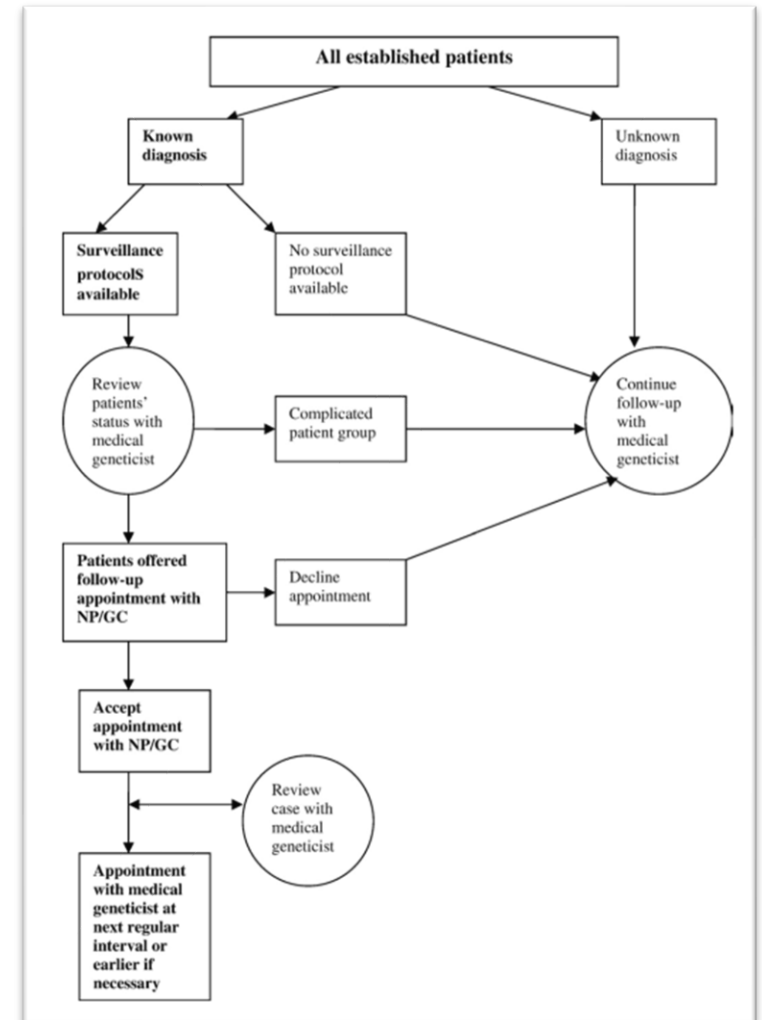
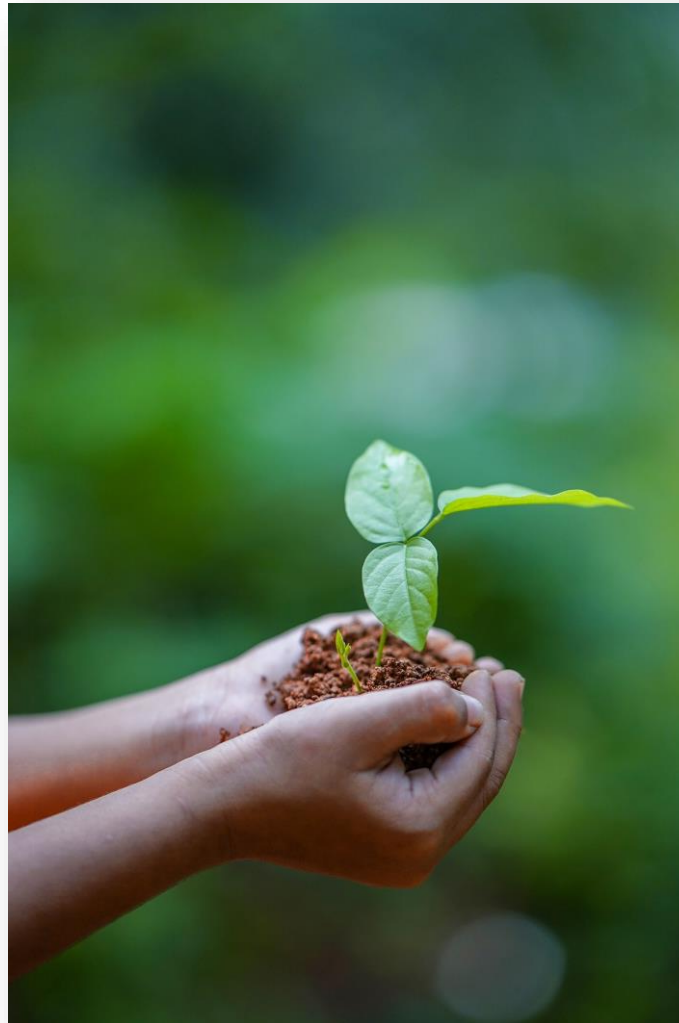
# NPs in Genetics: Practice Models <sup>13</sup>

Defined population.... “*The Thorn Model*”



# NPs in Genetics: Practice Models <sup>14</sup>

General population..... *“The Hand-Picked Model”*





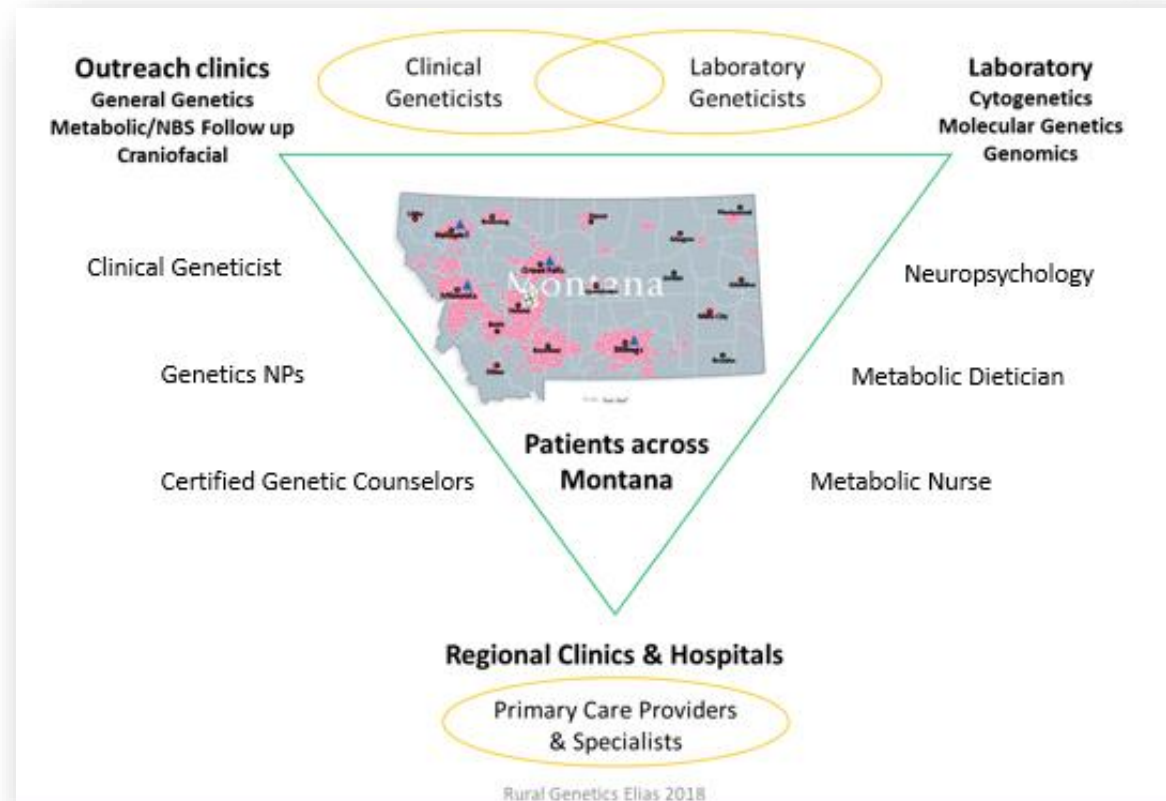
# NPs in Genetics: Practice Models <sup>15</sup>

General population..... “*The Willow Model*”



# NPs in Genetics: My Story

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# NPs in Genetics: My Story

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# NPs in Genetics: My Story

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Added lab service lines!

*“Increased accessibility of genetics care in Montana”*

*“More capacity for follow up care”*

## Rough Numbers:

- 61% increase in patients/month.
- 66% increase in molecular tests.

*“We spent 10 years trying to recruit a medical geneticist and 2 minutes recruiting an NP!”*

Added contract for out of state clinic!

*“We’ve had more flexibility in when and where we can schedule patients”*

# Keys to Success

MD/NP Champion

NP Personality

Education

Mentorship

Experience

- Expert clinician.
- Willing to teach.
- Gracious.

- Motivated.
- Persistent.
- Engaged.
- Team player.
- Insightful.

- Dedicated time.
- Course work.
- Self directed.
- Continuing.

- Expert.
- Peer.
- Formal.
- Informal.

- Shadowing.
- Co-visits.
- Prep and follow-up support.

# Thank You

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