





# Money Matters: An Educational Intervention to Improve Financial Wellness and Literacy Among Medical Students

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# **Mooney Savy**



Mooney Savy is a 24-yo 1<sup>st</sup> year medical student. It is time to renew her FAFSA, but she is not sure how much loan money she should request.



### Introduction



• Among US medical students, 71% have educational debt with median of \$200,000 medical education debt<sup>1</sup>

• Financial stressors such as **poor financial literacy** and **student loan debt** is associated with **burnout** among medical students and professionals<sup>2,3</sup>

<sup>1.</sup> AAMC. Medical Student Education: Debt, Costs, and Loan Repayment Fact Card for the Class of 2022. <a href="https://store.aamc.org/download/sample/sample\_id/575/">https://store.aamc.org/download/sample/sample\_id/575/</a>

Vengaloor Thomas T, Christian R, Palokas M, Hinton E, Pruett C. Strategies to improve financial literacy and related outcomes among medical students, residents, and fellows in the United States: a scoping review protocol. JBI Evidence Synthesis. 2021;19(1). <a href="https://journals.lww.com/jbisrir/Fulltext/2021/01000/Strategies\_to\_improve\_financial\_literacy\_and.18.aspx">https://journals.lww.com/jbisrir/Fulltext/2021/01000/Strategies\_to\_improve\_financial\_literacy\_and.18.aspx</a>

<sup>3.</sup> Grewal K, Sweeney MJ. An Innovative Approach to Educating Medical Students About Personal Finance. Cureus. 2021;13(6). doi:10.7759/cureus.15579

# **Mooney Savy**



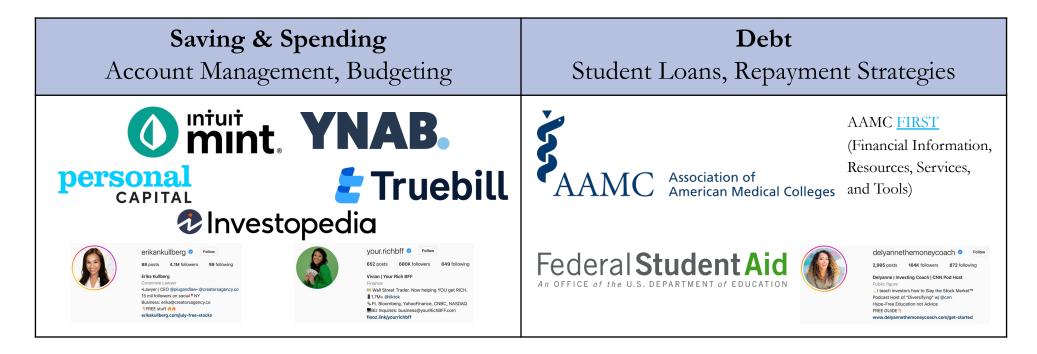
Mooney is already stressed enough with academics. She feels overwhelmed about managing her finances and says, "I wish they taught us this in school!"



### Objective

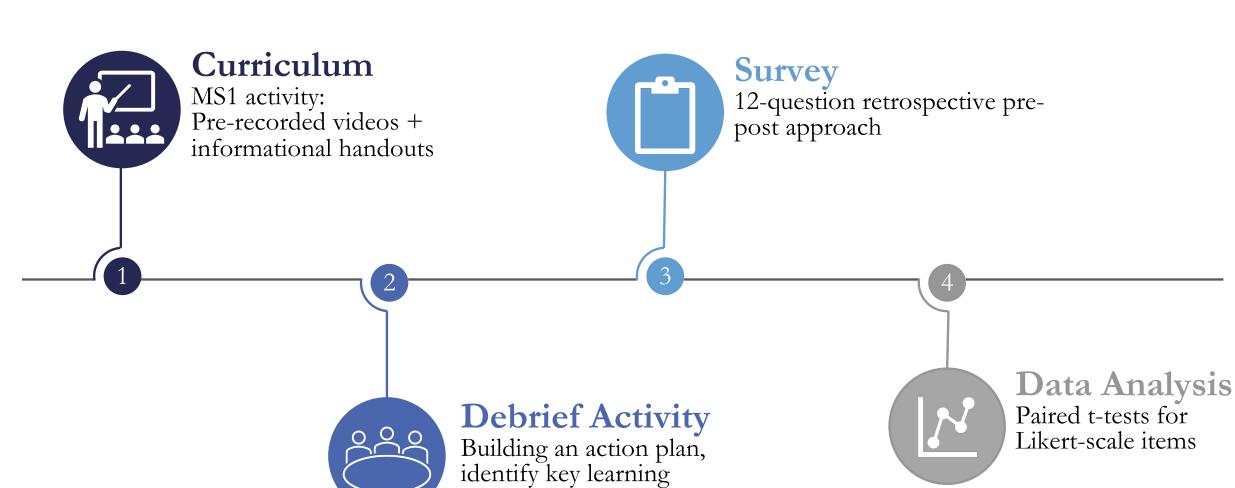


# Introduce MS1s to financial literacy resources and encourage them to improve their financial health



# Study Design





points

## Table 1. MS1 Characteristics (n=77)



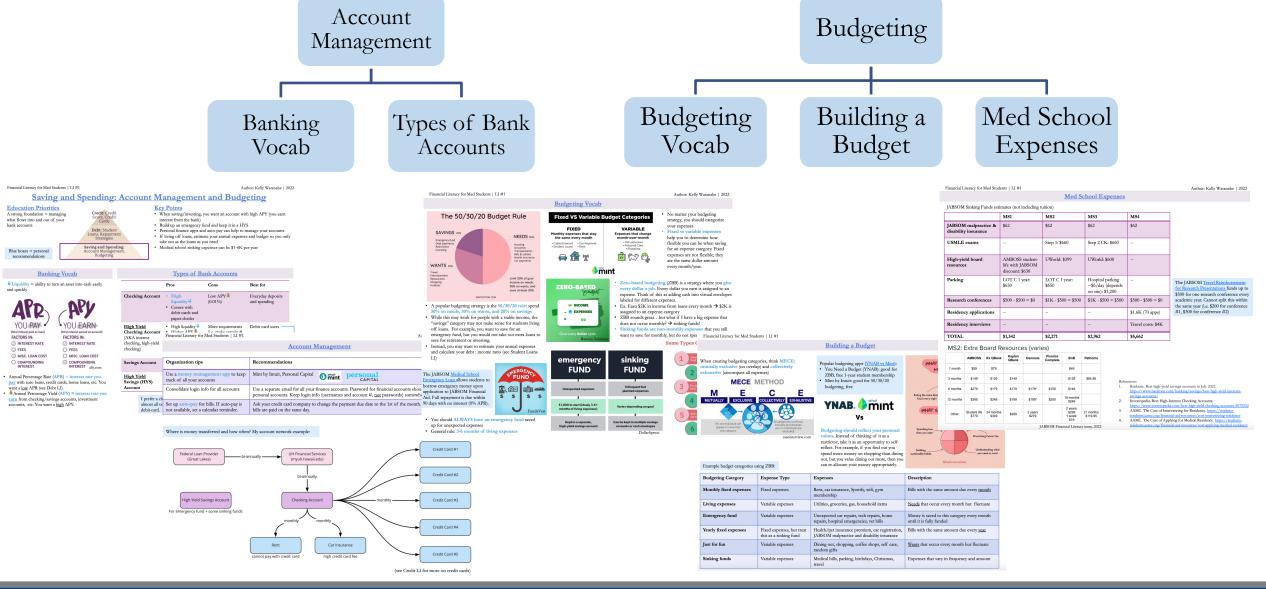
Demographics	Total (n=77)
Age, y	$24 \pm 3.19$
Female, n (%)	44 (57%)
Race/ethnicity, n (%)	
White	12 (16%)
Asian	58 (75%)
NHPI	5 (6%)
Other	2 (3%)
Marital Status, n (%)	
Married/Partner	4 (5%)
Single	73 (95%)
Have dependent children, n (%)	2 (3%)
Educational-related debt, \$	$34,600 \pm 60,600$
Education-related debt, n (%)	
No debt	42 ( <b>55%</b> )
\$1-\$50,000	16 (21%)
\$50,001-\$100,00	10 (13%)
\$100,001-\$150,000	4 (5%)
\$150,001-\$200,000	3 (4%)
\$200,001-\$250,000	1 (1%)
\$250,001-\$300,000	1 (1%)

Demographics	Total (n=77)
Highest maternal education, n (%)	
Less than high school	2 (3%)
High school	5 (6%)
College or technical training	20 (26%)
Bachelor	29 (38%)
Master	6 (8%)
Doctorate	1 (1%)
Professional	14 (18%)
Highest paternal education, n (%)	
Less than high school	3 (4%)
High school	8 (10%)
College or technical training	15 (20%)
Bachelor	17 (22%)
Master	11 (14%)
Doctorate	1 (1%)
Professional	22 (29%)

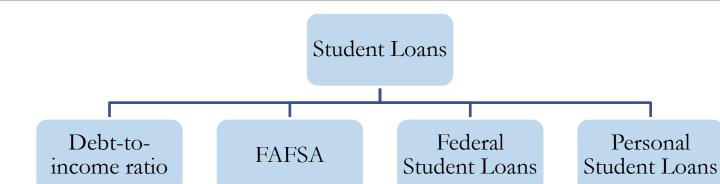
Values are mean  $\pm$  SD or n (%).

## Saving and Spending









Repayment Strategies

Loan Repayment Timeline

Loan Repayment Programs

### **Debt: Student Loans and Repayment Strategies**

### **Education Priorities** Majority of med students hav student loans. Know your loan details and repayment options

Saving and Spending: Blue boxes = personal

### **Key Points**

- Apply to FAFSA by Feb 1 to qualify for the JABSOM Opportunity Grant
   For federal loans, subsidized loans accrue interest after the grace period;
- Generally, federal student loans offer a lower interest rate than private student loan . You are not required to make federal student loan payments during med school, but
- you can if you want to
- There are many scholarships, loan forgiveness, and loan repayment plans that allow

### JABSOM graduates > \$215.000 More med student debt statistics on AAMC Fact All public medical school \$194,280 Card for Class of 2021 % public med school graduates with student loan debt

Student Loan Stats

Credit: Credi Score, Credit Cards

### Debt-to-income ratio

Debt-to-income ratio = total debt (including accrued interest) at the end of residency attending starting salary

From the White Coat Investor (WCI). Note these projections assume diligent loan payme and smart budgeting through residency: "At 1X, medical s

- management...you can pay off that debt within 2 years of completing your training...I encourage professional students borrowing money to aim for this ratio."
- "At 2X, the [medical school] investment was not as good. However, it is probably still an acceptable ratio. With careful financial management, this debt can be cleared within 5
- "At 3X. ... I can no longer describe this decision [medical school] as a good investment...Unless this doctor figures out a way to boost income significantly, the doc is going to struggle just to get the debt paid off within a decade after finishing training."

- unsubsidized loans accrue interest starting the day of disbursement
- As of now, federal student loans have an interest rate of 0% until Aug 31 ©

- you to reduce your overall student debt

### FAFSA

To qualify for federal student loans, you must cor FAFSA opens on Oct 1, closes on June 30.

Opportunity Grant (i.e. free money!). Put a for Oct 1 (FAFSA opens) and Feb 1 (priority

### GRANTS

These funds do not need to be repaid and are often

This fund is specific to JABSOM and is awarded base

To be eligible, you must meet the following criteria:

· Completed the FAFSA before the February 1st prio

Be a resident of the State of Hawai'i

Author: Kelly Wata Types of Federal Student Loans

Direct loans = Stafford loans = federal government lends you money Apply by priority deadline Feb 1 to qualify fa

Table below only focuses on undergrad and grad. Other terms apply for professional school, parents of undergrads, etc.

a c de	Type of loan	Who qualifies?	Interest rate July 1, 2021 – June 30, 2022	Interest rate July 1, 2022 – June 30, 2023	Loan fees (disbursed on or after Oct 1, 2020)	Max <u>med</u> students borrow per year
rel	Direct subsidized	Undergrad     Need-based	☑ Fixed 3.73%	Fixed 4.99%	1.057%	
	Direct unsubsidized	Undergrad, grad     Regardless of need	Fixed 5.28%	Fixed 6.54%	1.057%	\$40,500
ed ( unt	Direct (Grad) PLUS* (type of unsubsidized loan)	• Grad • Regardless of need	Fixed 6.28%	Fixed 7.54%	4.228%	Remainder of cost of attendance after sub- all other grants, school

\*Gov will check your credit score. If poor credit score, you may need an endorser (with good credit score) who agrees to repay loan if you do not.

 Subsidized = interest starts accruing (accumulating) after grace period . Unsubsidized = interest starts accruing the day of disbursement (i.e. loan money is deposited into your account)

Interest rates = annual percentage rate (APR)
 Fixed = same rate for life of loan

 Variable = rate can change over time receive is less than your loan balance. For example, if you take out a \$10,000 loan with a 1% loan fee, you will receive \$9,900 while your loan balance is still \$10,000.

### Student Loan Payment Pause Extended Through Aug. 31, 2022

On April 6, 2022, the U.S. Department of Education (ED) extended COVID-19 emergency relief for student loans through Aug. 31, 2022. The emergency relief includes the following measures for eligible

· a suspension of loan payments

· stopped collections on defaulted loans

Lender = gov Lender = banks, creuunions, private lenders Higher interest rates (generally) Fixed interest rates Fixed or variable interest Just because student Do not need good credit Will check your credit score loan interest rates are 0% until Aug 31 does Direct PLUS loans) not mean you take out more loans than you Restrictive loan max May have less restrictive loan need. Remember, you still get charged a nonrefundable loan fee.

before taking out a private loan

Federal vs Private Student Loan

Financial Literacy for Med Students | LI #2

Loan Repayment Timeline

· When you need to start repaying your loans depends on grace period, deferment, or forbear



Grace period	- ♣Deferment	>Forbearance*		
	not required to make p ents during these periods			
6 mo grace period automatically applied to Direct Loans upon graduation	Often must apply and qualify	Must apply and qualify		
	not accrue interest ©	Both subsidized and unsubsidized loans		

Ouring residency, you are eligible for andatory Medical Internship/Residenc rbearance, but you must apply for it.

"Deferral and forbearance are almost never the right move, despite how commonly residents oose these options." - WCI. Want to know why? Read WCI!

When your full loan payment is <u>due</u> (i.e. loan term) depends on your loan repayment plan (some examples on next page)

accrue interest ⊗

De White Cos

Repayment Program

Repayment Program

Repayment Programs

Loan Repayment

Military programs

Hawaii State Loan

NIH Loan

Program

Author: Kelly Watanabe | 2022

Author: Kelly Watanabe | 2022 Sneak Peak of Loan Repayment Options

oans after graduation. Note that this is not a comprehensive list.

	,,,,
Loan Forgiveness	Description
Public Service Loan Forgiveness (PSLF)	Erase any federal student loan balance remaining after you make 10 years of payment while working for non-profit or public institution (which many hospitals are)
NHSC Scholarship	Full tuition scholarship + monthly stipend during medical school. For every year that you receive the scholarship, you must work for 1 year in primary care at HPSA. Minimum 2-year service.
NHSC Student to Service Loan Repayment Program	Up to \$120,000 in student loan repayment for MS4s who agree to work full-time for at least 3 years in primary care a in a HPSA
NHSC Loan Repayment Program	Up to \$50,000 in student loan repayment for primary care physicians who work at least 2 years in a HPSA
NHSC Substance Use Disorder Workforce Loan Repayment Program	Up to \$75,000 in student loan repayment for primary care <sup>56</sup> doctors who work at least 3 years doing substance abuse treatment at an approved substance use disorder facility with a HPSA ■ score
NHSC Rural Community Loan	Up to \$100,000 in student loan repayment for primary care doctors who work at least 3 years combating the

opioid epidemic at a <u>rural</u>, approved substance use disorder facility with a HPSA score

primary care physicians who work at least 2 years in a

Up to \$50,000 in student loan repayment per year for doctors in biomedical or biobehavioral research careers

Up to \$40,000 in student loan repayment for doctors

who work at least 2 years in communities that serve

American Indian or Alaska Native populations

Various scholarships and loan repayment options

repayment programs for students who go into Aprin medicine, internal medicine, pediatrics, OB/GYN, geriatrics, psychiatry) and

National Health Service Corps (NHSC) have a scholarship and loan

In 2022, Hawaii has 32 HPSAs ::

PRIMARY CARE: Hawaii County and County Equivalent Listing

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County
Geographic Area: Maui County
Facility: Community Clinic Of Maui, Inc.
Facility: Hana Community Health Center
Facility: Lana': Community Health Center
Facility: Maui Community Health Center
Facility: MOLOKAI GENERAL HOSPITAL
Facility: MOLOKAI GENERAL HOSPITAL
Facility: MOLOKAI GENERAL HOSPITAL

### Curriculum



# What makes this innovation unique?

- Easy-to-digest infographic format
- Concise, high-yield information specific to medical students
- Small, actionable steps for immediate behavioral change

# Debrief Activity





### **Actionable Steps**



**Peer Teaching** 



**Mentor Reflection** 



### Table 2. Pre-/Post-activity survey results



Question	Before	After	Delta	P value
Q1: I feel <b>confident</b> about my personal finance knowledge and skills	2.38 (0.75)	3.06 (0.54)	0.68 (0.53, 0.83)	< 0.001
Q2: I can distinguish between <b>checking and savings accounts</b> and describe their basic characteristics	3.16 (0.89)	3.59 (0.55)	0.43 (0.26, 0.61)	<0.001
Q3: I appreciate the <b>importance of debt management</b>	3.30 (0.65)	3.77 (0.43)	0.47 (032, 060)	< 0.001
Q4: I am <b>confident</b> that I can build a strategy to <b>manage any financial debt</b> I might owe at the end of medical school	2.77 (0.75)	3.33 (0.586)	0.56 (0.40, 0.73)	< 0.001
Q5: I <b>understand</b> the meaning of the terms "interest rate", "loan fee", and "subsidized/unsubsidized", as they relate to <b>student loans</b>	2.49 (0.85)	3.57 (0.50)	1.07 (0.89, 1.25)	<0.001
Q6: I am aware of medical student loan repayment options	2.43 (0.98)	3.51 (0.50)	1.07 (0.86, 1.29)	< 0.001
Q7: I feel that personal finances will impact what specialty I choose	2.55 (0.83)	2.70 (0.85)	0.15 (0.03, 0.26)	0.017
Q8: I feel that personal finances will impact where I choose to practice	2.57 (0.87)	2.74 (0.92)	0.17 (0.05, 0.30)	0.006
Q9: I believe that financial health should be a key part of my overall wellness plan	3.33 (0.61)	3.78 (0.45)	0.45 (0.32, 0.58)	<0.001

Students answered "Strongly Disagree" (1), "Somewhat Disagree" (2), "Somewhat Agree" (3), or "Strongly Agree" (4) to each question. The corresponding numerical values were used in calculating the average competence scores. Out of the 77 students who participated in the activity, 69 (90%) completed the survey. Values are mean (SD) or mean (95% CI). P value was calculated with paired t-test.

### Table 3. Activity Evaluation



Question	Strongly Disagree	Somewhat Disagree	Somewhat Agree	Strongly Agree	Mean Likert
Q10: This activity motivated me to learn more about financial literacy	1 (1%)	1 (1%)	26 (38%)	41 (59%)	3.55 (0.61)
Q11: This activity <b>increased my understanding</b> of financial literacy	1 (1%)	0 (0%)	25 (36%)	43 (62%)	3.59 (0.58)
Q12: This activity should be continued for future MD1 classes	0 (0%)	0 (0%)	19 (27%)	50 (73%)	3.72 (0.45)

Students answered "Strongly Disagree" (1), "Somewhat Disagree" (2), "Somewhat Agree" (3), or "Strongly Agree" (4) to each question. The corresponding numerical values were used in calculating the average competence scores. Out of the 77 students who participated in the activity, 69 (90%) completed the survey. Values are n (%) or mean (SD).

# **Mooney Savy**



Mooney now understands the importance of her financial health and has the resources to make smart, proactive financial decisions.

Reduce financial stress  $\rightarrow$  Reduce medical student burnout



### Conclusion



A short instructional video + group discussion is associated with improved understanding, confidence, and appreciation of personal finance among medical students and can be an effective model for addressing financial literacy, a sometimes under-appreciated aspect of student wellness.