



MHSPHP
Military Health System Population Health Portal



MHSPHP Metrics Forum

Obesity May 2013

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Introduction to Obesity Metrics

- Methodology of the metrics
- Patient list data
- How to get lists of obese or overweight patients



MHSPHP

Military Health System Population Health Portal

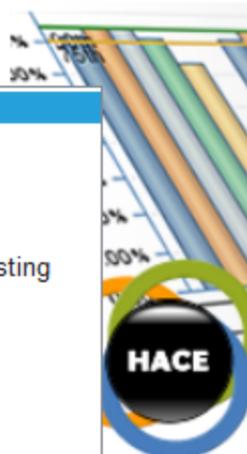
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Review

current as of

Recent Updates

DATE	FEB2014						JAN2014					
	Total Enrolled	Weight 3 to 17 Eligible	Overweight 3 to 17	Overweight 3 to 17 Prevalence	Overweight 3 to 17 Diagnosed	Overweight 3 to 17 Diagnosed Rate	Total Enrolled	Weight 3 to 17 Eligible	Overweight 3 to 17	Overweight 3 to 17 Prevalence	Overweight 3 to 17 Diagnosed	Overweight 3 to 17 Diagnosed Rate
SERVICE												
✚ ✚ AIR FORCE	1,140,193	124,786	15,778	12.64%	4,404	27.91%	1,139,640	152,142	19,112	12.56%	5,239	27.41%
✚ ✚ ARMY	1,381,058	177,072	24,741	13.97%	1,793	7.25%	1,377,830	211,655	29,422	13.90%	2,198	7.47%
✚ ✚ COAST GUARD	27,736	.	.	.	.	.	27,588	.	.	.	.	.
✚ ✚ NAVY	948,963	90,548	12,032	13.29%	1,022	8.49%	944,908	110,295	14,625	13.26%	1,321	9.03%
✚ ✚ NCRMD	136,103	19,203	2,571	13.39%	216	8.40%	135,910	23,158	3,115	13.45%	279	8.96%
✚ ✚ TRO	1,362,939	.	.	.	.	.	1,400,939	.	.	.	.	.
Total	4,996,992	411,609	55,122	13.39%	7,435	13.49%	5,026,815	497,250	66,274	13.33%	9,037	13.64%

DATE	FEB2014						JAN2014					
	Total Enrolled	Weight 18 and Older Eligible	Overweight 18 and Older	Overweight 18 and Older Prevalence	Overweight 18 and Older Diagnosed	Overweight 18 and Older Diagnosed Rate	Total Enrolled	Weight 18 and Older Eligible	Overweight 18 and Older	Overweight 18 and Older Prevalence	Overweight 18 and Older Diagnosed	Overweight 18 and Older Diagnosed Rate
SERVICE												
✚ ✚ AIR FORCE	1,140,193	494,793	199,680	40.36%	14,825	7.42%	1,139,640	629,370	258,138	41.02%	19,719	7.64%
✚ ✚ ARMY	1,381,058	589,890	248,176	42.07%	29,515	11.89%	1,377,830	760,616	327,125	43.01%	37,384	11.43%
✚ ✚ COAST GUARD	27,736	.	.	.	.	.	27,588	.	.	.	.	.
✚ ✚ NAVY	948,963	341,070	142,845	41.88%	12,188	8.53%	944,908	499,043	220,182	44.12%	16,561	7.52%
✚ ✚ NCRMD	136,103	61,642	24,682	40.04%	1,749	7.09%	135,910	76,636	31,170	40.67%	2,188	7.02%
✚ ✚ TRO	1,362,939	.	.	.	.	.	1,400,939	.	.	.	.	.
Total	4,996,992	1,487,395	615,383	41.37%	58,277	9.47%	5,026,815	1,965,665	836,615	42.56%	75,852	9.07%

DATE	FEB2014						JAN2014					
	Total Enrolled	Weight 3 to 17 Eligible	Obese 3 to 17	Obese 3 to 17 Prevalence	Obese 3 to 17 Diagnosed	Obese 3 to 17 Diagnosed Rate	Total Enrolled	Weight 3 to 17 Eligible	Obese 3 to 17	Obese 3 to 17 Prevalence	Obese 3 to 17 Diagnosed	Obese 3 to 17 Diagnosed Rate
SERVICE												
<input type="checkbox"/> <input type="checkbox"/> AIR FORCE	1,140,193	124,786	10,761	8.62%	5,427	50.43%	1,139,640	152,142	13,212	8.68%	6,684	50.59%
<input type="checkbox"/> <input type="checkbox"/> ARMY	1,381,058	177,072	19,590	11.06%	5,803	29.62%	1,377,830	211,655	23,785	11.24%	6,958	29.25%
<input type="checkbox"/> <input type="checkbox"/> COAST GUARD	27,736	.	.	.	.	.	27,588	.	.	.	.	.
<input type="checkbox"/> <input type="checkbox"/> NAVY	948,963	90,548	9,286	10.26%	2,858	30.78%	944,908	110,295	11,559	10.48%	3,602	31.16%
<input type="checkbox"/> <input type="checkbox"/> NCRMD	136,103	19,203	1,667	8.68%	574	34.43%	135,910	23,158	2,044	8.83%	676	33.07%
<input type="checkbox"/> <input type="checkbox"/> TRO	1,362,939	.	.	.	.	.	1,400,939	.	.	.	.	.
Total	4,996,992	411,609	41,304	10.03%	14,662	35.50%	5,026,815	497,250	50,600	10.18%	17,920	35.42%

DATE	FEB2014						JAN2014					
	Total Enrolled	Weight 18 and Older Eligible	Obese 18 and Older	Obese 18 and Older Prevalence	Obese 18 and Older Diagnosed	Obese 18 and Older Diagnosed Rate	Total Enrolled	Weight 18 and Older Eligible	Obese 18 and Older	Obese 18 and Older Prevalence	Obese 18 and Older Diagnosed	Obese 18 and Older Diagnosed Rate
SERVICE												
<input type="checkbox"/> <input type="checkbox"/> AIR FORCE	1,140,193	494,793	129,396	26.15%	40,461	31.27%	1,139,640	629,370	155,613	24.73%	49,623	31.89%
<input type="checkbox"/> <input type="checkbox"/> ARMY	1,381,058	589,890	156,915	26.60%	56,855	36.23%	1,377,830	760,616	195,447	25.70%	72,269	36.98%
<input type="checkbox"/> <input type="checkbox"/> COAST GUARD	27,736	.	.	.	.	.	27,588	.	.	.	.	.
<input type="checkbox"/> <input type="checkbox"/> NAVY	948,963	341,070	80,885	23.72%	26,461	32.71%	944,908	499,043	105,199	21.08%	33,724	32.06%
<input type="checkbox"/> <input type="checkbox"/> NCRMD	136,103	61,642	16,797	27.25%	5,168	30.77%	135,910	76,636	19,818	25.86%	6,253	31.55%
<input type="checkbox"/> <input type="checkbox"/> TRO	1,362,939	.	.	.	.	.	1,400,939	.	.	.	.	.
Total	4,996,992	1,487,395	383,993	25.82%	128,945	33.58%	5,026,815	1,965,665	476,077	24.22%	161,869	34.00%

Overweight or Obese

DATE	FEB2014					JAN2014				
	Weight 3 to 17 Eligible	Overweight or Obese Total 3 to 17	Overweight or Obese Total 3 to 17 Prevalence	Overweight or Obese 3 to 17 Total Diagnosed	Overweight or Obese 3 to 17 Total Diagnosed Rate	Weight 3 to 17 Eligible	Overweight or Obese Total 3 to 17	Overweight or Obese Total 3 to 17 Prevalence	Overweight or Obese 3 to 17 Total Diagnosed	Overweight or Obese 3 to 17 Total Diagnosed Rate
SERVICE										
<input type="checkbox"/> <input type="checkbox"/> AIR FORCE	124,786	26,539	21.27%	9,831	37.04%	152,142	32,324	21.25%	11,923	36.89%
<input type="checkbox"/> <input type="checkbox"/> ARMY	177,072	44,331	25.04%	7,596	17.13%	211,655	53,207	25.14%	9,156	17.21%
<input type="checkbox"/> <input type="checkbox"/> COAST GUARD	.	.	.	.	.	.	.	.	.	.
<input type="checkbox"/> <input type="checkbox"/> NAVY	90,548	21,318	23.54%	3,880	18.20%	110,295	26,184	23.74%	4,923	18.80%
<input type="checkbox"/> <input type="checkbox"/> NCRMD	19,203	4,238	22.07%	790	18.64%	23,158	5,159	22.28%	955	18.51%
<input type="checkbox"/> <input type="checkbox"/> TRO	.	.	.	.	.	.	.	.	.	.
Total	411,609	96,426	23.43%	22,097	22.92%	497,250	116,874	23.50%	26,957	23.07%

DATE	FEB2014						JAN2014					
	Total Enrolled	Weight 18 and Older Eligible	Overweight or Obese Total 18 and Older	Overweight or Obese Total 18 and Older Prevalence	Overweight or Obese 18 and Older Total Diagnosed	Overweight or Obese 18 and Older Total Diagnosed Rate	Total Enrolled	Weight 18 and Older Eligible	Overweight or Obese Total 18 and Older	Overweight or Obese Total 18 and Older Prevalence	Overweight or Obese 18 and Older Total Diagnosed	Overweight or Obese 18 and Older Total Diagnosed Rate
SERVICE												
<input type="checkbox"/> <input type="checkbox"/> AIR FORCE	1,140,193	494,793	329,076	66.51%	55,286	16.80%	1,139,640	629,370	413,751	65.74%	69,342	16.76%
<input type="checkbox"/> <input type="checkbox"/> ARMY	1,381,058	589,890	405,091	68.67%	86,370	21.32%	1,377,830	760,616	522,572	68.70%	109,653	20.98%
<input type="checkbox"/> <input type="checkbox"/> COAST GUARD	27,736	.	.	.	.	.	27,588	.	.	.	.	.
<input type="checkbox"/> <input type="checkbox"/> NAVY	948,963	341,070	223,730	65.60%	38,649	17.27%	944,908	499,043	325,381	65.20%	50,285	15.45%
<input type="checkbox"/> <input type="checkbox"/> NCRMD	136,103	61,642	41,479	67.29%	6,917	16.68%	135,910	76,636	50,988	66.53%	8,441	16.55%
<input type="checkbox"/> <input type="checkbox"/> TRO	1,362,939	.	.	.	.	.	1,400,939	.	.	.	.	.
Total	4,996,992	1,487,395	999,376	67.19%	187,222	18.73%	5,026,815	1,965,665	1,312,692	66.78%	237,721	18.11%



How do I find my metrics?

- Right click in the data table and select Filter and Rank
- Choose FACILITY then Filter
- Drill into your Service to find DMIS(s) or use Search
- Click top arrow when selection completed then click OK

The screenshot displays the MHSPHP interface. At the top left is the MHSPHP logo. The main area shows a data table with columns for various metrics. A context menu is open over the table, with 'Filter and Rank ...' selected. Below the table is a bar chart titled 'Overweight or Obese Total 18 and Older Prevalence'. On the right, a 'Filter and Rank' dialog box is open, showing a list of categories and available values. The 'Measure Filter or Rank' tab is selected and circled in red. The 'Available values' list includes 'AIR FORCE', 'ARMY', 'COAST GUARD', 'NAVY', 'NCRMD', and 'TRO', with 'AIR FORCE' circled in red. The dialog box also has 'OK', 'Cancel', and 'Help' buttons at the bottom.

DATE	Total Enrolled	Weight 18 and Older Eligible	Overweight or Obese Total 18 and Older	Overweight or Obese Total 18 and Older Prevalence	Overweight or Obese 18 and Older Total Diagnosed	Overweight or Obese 18 and Older Total Diagnosed Rate	Total Enrolled	Weight 18 and Older Eligible
SERVICE								
AIR FORCE	1,140,193	494,793	329,076	66.51%	55,286	16.80%	1,139,640	62
ARMY	1,381,058	589,890	405,000	68.83%	60,000	21.32%	1,377,830	76
COAST GUARD	27,736						27,588	
NAVY	948,963	341,070	223,000	62.75%	30,000	17.27%	944,908	49
NCRMD	136,103	61,642	41,000	66.51%	6,000	16.68%	135,910	7
TRO	1,362,939						1,400,939	
Total	4,996,992	1,487,395	999,000	66.51%	187,000	18.73%	5,026,815	1,96

Applied filters: None

Overweight or Obese Total 18 and Older Prevalence

100.00%
80.00%
60.00%
40.00%
20.00%



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OBESITY AND OVERWEIGHT MEASURES

- Measures calculated monthly
 - Not HEDIS metrics; benchmarks not clearly defined
 - Service/MTF metrics only, no TRO metrics
 - Metrics display in MHSPHP 3G only
- Measures age based:
 - Child/Adolescent age 3-17
 - Adult age ≥ 18

- **Overweight Prevalence:** Of the patients with a BMI measured, the % were overweight
- **Obese Prevalence:** Of the patients with a BMI measured, the % were obese
- **Overweight coded:** Of the overweight patients, how many had an encounter with a diagnosis of overweight or obese
- **Obese Coded:** Of the obese patients, how many had an encounter with a diagnosis of overweight or obese
- All 4 metrics run separately for adults and Children/Adolescents

Obese and Overweight Prevalence Denominators

- Adult: Patients ≥ 18 continuously enrolled for 11 of 12 months in the last 12 months who had a height and weight during a primary care encounter in AHLTA
- Child/Adolescent: Patients 3-17 continuously enrolled for 11 of 12 months in the last 12 months who had a height and weight during a primary care encounter in AHLTA



- Vitals encounter id matches encounter id from a Primary care MEPRs with a Primary Care Provider Specialty code
 - MEPRS: BAA, BAE, BAI, BAZ, BDA, BDB, BDC, BDZ, BGA, BGZ, BHA, BHB, BHH, BHI, BHZ, BJA, BKA
 - Provider Specialty: 000, 001, 003, 007, 010, 011, 028, 039, 040, 042, 052, 300, 301, 302, 303, 320, 322, 603, 604, 605, 610, 901, 911, 923, 925, 926, 932, 949

- Adults ≥ 18 with BMI ≥ 25 and < 30 in last year
 - BMI calculated based on HT and WT:
 - Mode Height
 - Median Weight
- Children 3-17 with BMI percentile ≥ 85 and < 95
 - BMI calculated based on most recent HT and WT in the last year



- Adults ≥ 18 with BMI ≥ 30 in last year
 - BMI calculated based on HT and WT:
 - Prior to Feb 2014 it was based on
 - Modal Height
 - Median Weight
 - Now BMI based on most recent HT and WT
- Children/Adolescents age 3-17 with BMI percentile ≥ 95
 - BMI calculated based on most recent HT and WT in the last year



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“Biologically Implausible” data excluded

- Children/adolescents only includes
 - Height between 48 and 85 inches
 - Weight between 70 and 500 pounds
- Adults only includes
 - 19 and 83 inches
 - 71 and 699 pounds



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Source of Methodologies

- Methodology pulled from literature review of research and consensus from Tri-service analyst working group



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Coded

Denominators & Numerators

- Overweight coded denominator: those patients in the overweight prevalence numerator
- Overweight coded numerator: those with an outpatient encounter with diagnosis for obesity or overweight
- Obese coded denominator: those patients in the obese prevalence numerator
- Obese coded numerator: those with an outpatient encounter with diagnosis for obesity or overweight



278.0, 278.00, 278.01, 278.02,
V8521, V8522, V8523, V8524, V8525,
V8530, V8531, V8532, V8533, V8534,
V8535, V8536, V8537, V8538, V8539,
V854, V8541, V8542, V8543, V8544,
V8545, V8554, V8553



Obesity metrics exclusions

- Any woman with an ICD9 code indicating pregnancy during the measurement year are excluded from the denominator/numerator



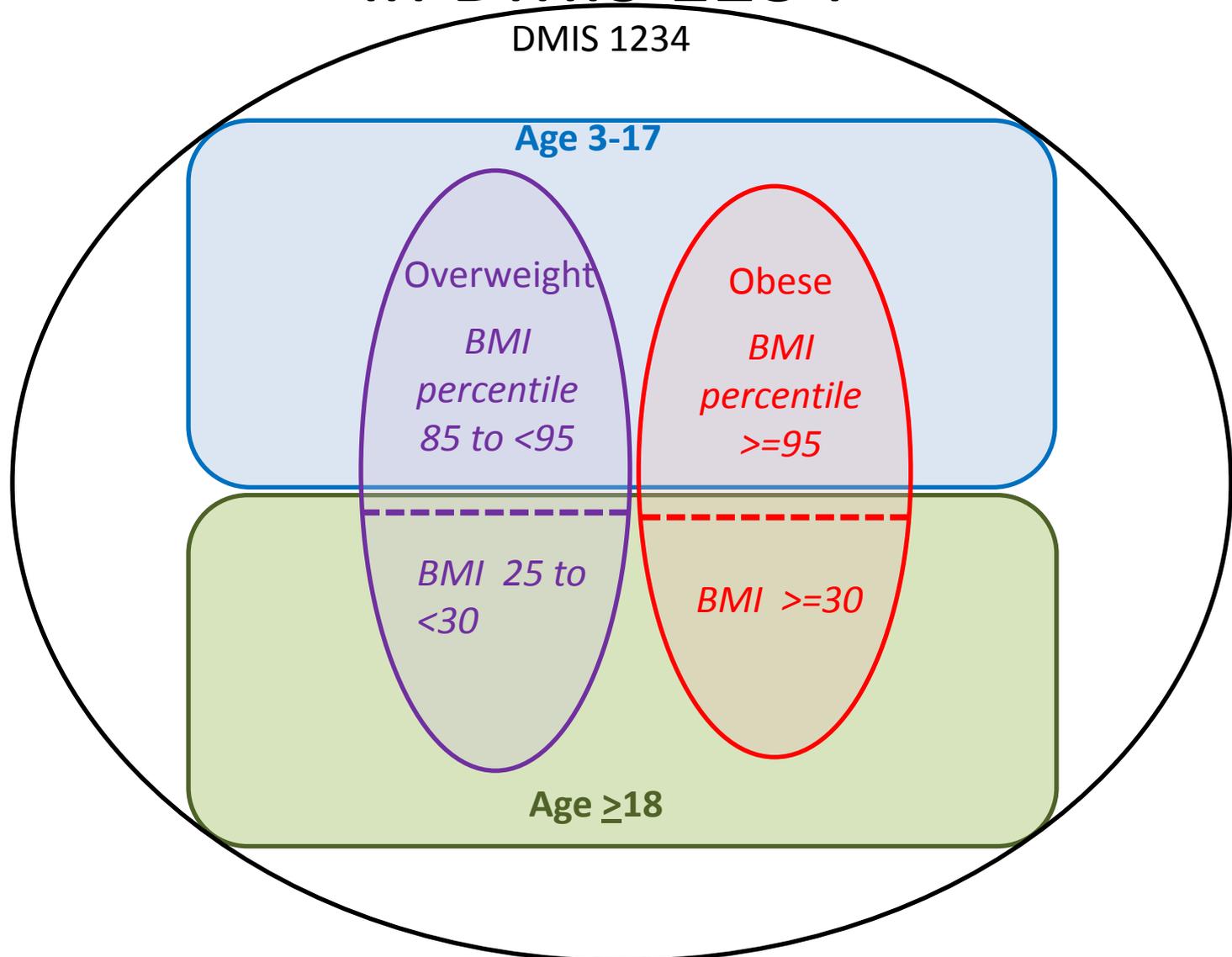
Quicklook Prevalence Report

Flu Category	BMI Date	BMI	BMI % Range	Weight(lbs)	Height(in)
<input type="text"/>					
NA	2/10/2014	25.37		162	67
NA	5/17/2012	19.84	>50-75%	112	63
DIA	8/1/2013	38.73		205	61
HOU	4/30/2012	16.10	>25-50%	55	49
CHD	2/26/2014	17.22	>75-85%	30	35
CHD	1/2/2014	15.20	>10-25%	25	34
NA	10/1/2013	29.27		204	70
NA					
NA	12/3/2013	19.27	>50-75%	102	61
COM	3/14/2014	25.49		188	72
NA	1/7/2014	14.06	<3%	72	60
NA	10/16/2013	25.01		155	66
AD	2/28/2014	28.89		190	68
COM	12/4/2013	32.87		174	61
DIA	3/3/2014	25.97		133	60
HOU					
NA	2/24/2014	27.92		173	66
AD	9/11/2013	21.48		110	60



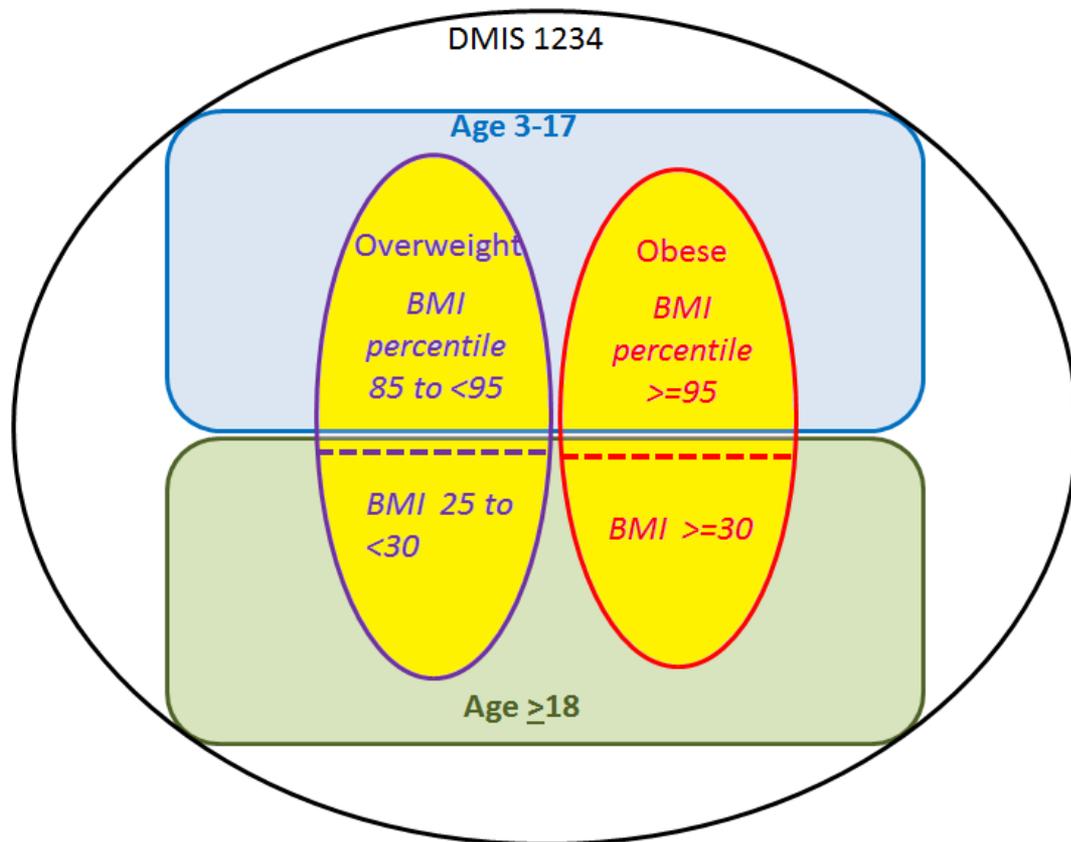
- Where does the data come from?
 - AHLTA vital signs
 - Codes come from encounters in direct care
- What about those patients with a muscular build?
 - Unfortunately they will meet the overweight criteria

Obesity and Overweight Populations in DMIS 1234



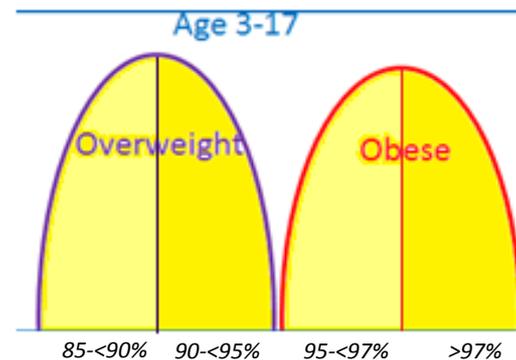
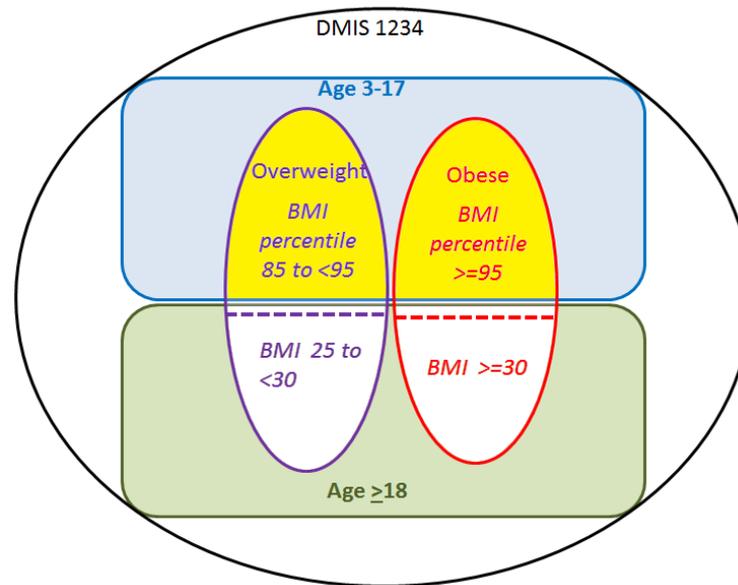
Search Join options: Obese or Overweight “or” vs Obese “and” Overweight

- Join criteria with OR to select everyone who meets either criteria (full ovals)
- Join criteria with AND to select patients who meet both criteria (overlapping sections of ovals)—there will be no patients because no patient can meet both overweight AND obese criteria
- Same is true for these age criteria
- But obese overlaps both age criteria as does overweight....



Child 3-17 Overweight OR Obese

- Join criteria with OR to select everyone who meets either weight criteria (full ovals) and find just the children
- Overweight children:
 - >85-90% or >90-95%
- Obese Children:
 - >95-97% or >97%
- *Join criteria with AND to select patients who meet both criteria (overlapping sections of ovals)—there will be no children if joined by and because no child is both overweight AND obese*



Label Error (not impact metrics)

Quicklook will update in the next week

There is an error in the labels. It will be fixed with Mar 14 update:

Yellow = Overweight

Red= Obese

FEB 2014 BMI % Ranges	Mar 2014 BMI % Range
<3%	<3%
3-5%	03-5%
>5-10%	05-<10%
>10-25%	10-<25%
>25-50%	25-<50%
>50-75%	50-<75%
>75-85%	75-<85%
>85-90%	85-<90%
>90-95%	90-<95%
>95-97%	95-<97%
>97%	Over 97%

**FEBRUARY 2014 QUICKLOOK FILTER
EXAMPLE**

Step 1: Obese/Overweight by percentile

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.BMI % Range	Contains	90	)	Delete
OR		DSQuickLook.BMI % Range	Contains	97	)	Delete

- Remember: According to Feb 14 options, >85% to 95% are overweight; > 95% are obese (*this is error on Feb list, should be 85-<95%; ≥95%*)
- BMI Percentile Range is text data, not numeric data
 - Text “3” is greater than “>”, so “3-5%” is captured in the search for Greater Than or Equal to “>85”

Feb 2014 BMI % Ranges
<3%
3-5%
>5-10%
>10-25%
>25-50%
>50-75%
>75-85%
>85-90%
>90-95%
>95-97%
>97%

Overweight or Obese:
 Best Option for Feb 2014:
 Contains “90”
 OR Contains “97”

Obese only: Best Option
 •BMI% contains “97”

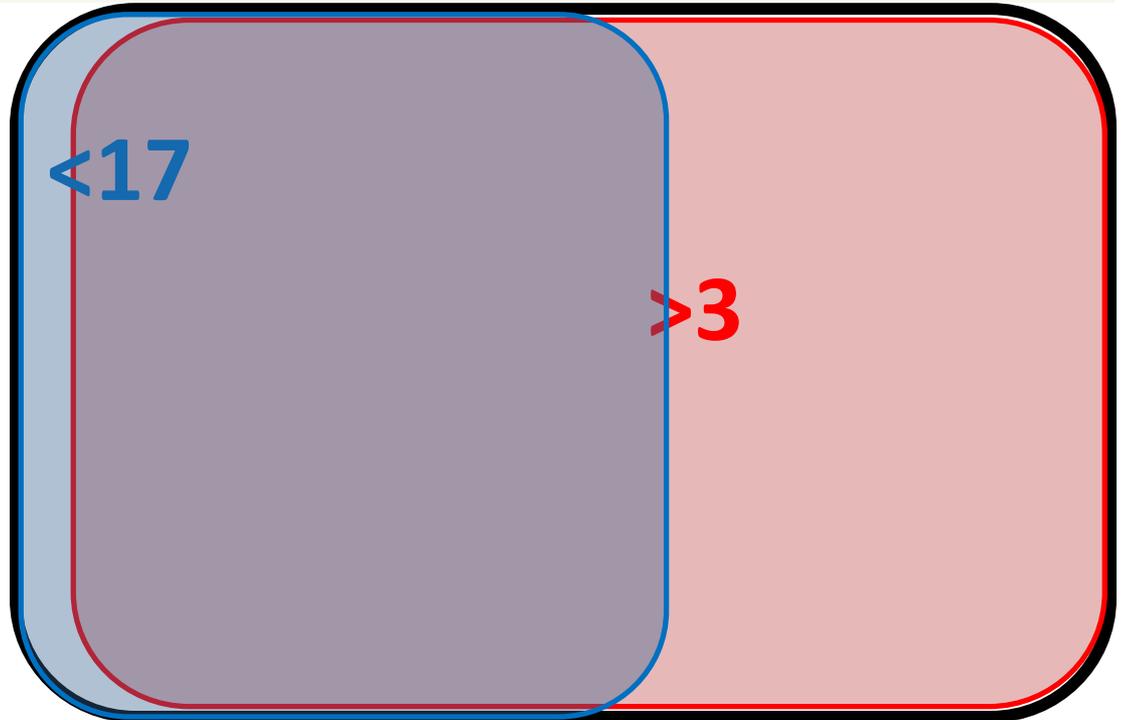
Overweight only:
 •BMI% Range contains “90”

Based on Feb 2014 BMI% categories use March examples after March 2014 data update

Step 2: Finding children 3-17

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.Age	Greater Than Or Equal To	3	)	Delete
AND	)	DSQuickLook.Age	Less Than Or Equal To	17	(	Delete

- Black Shape= total population
- RED shape are ≥ 3
- Blue are ≤ 17
- Purple overlap area = red AND blue =age 3-17
- The entire red/blue/purple area= red OR blue = all patients because all are either >3 or <17
- Put parentheses around your desired grouping

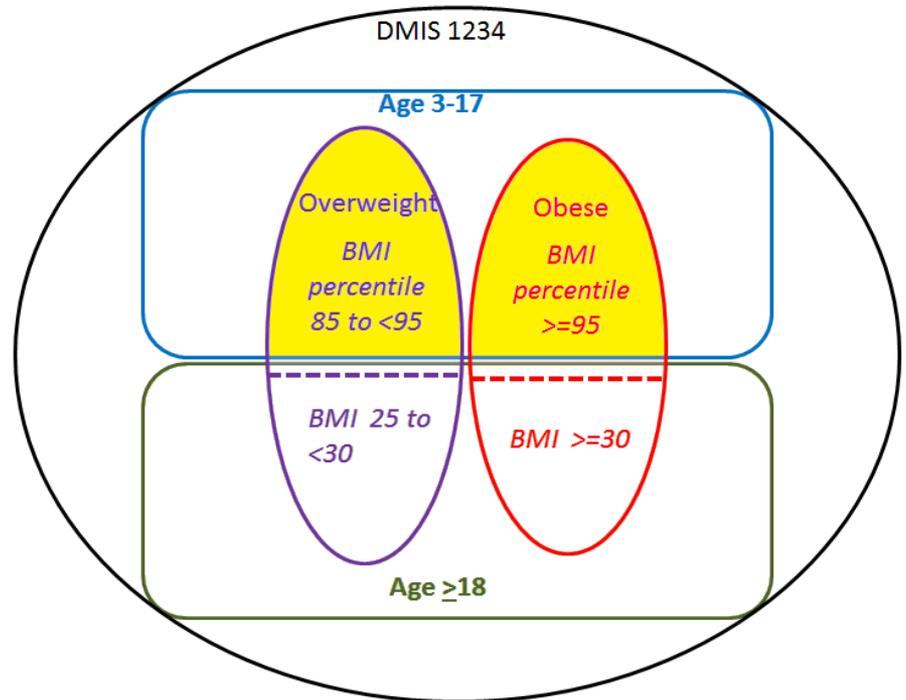


*Based on Feb 2014 BMI% categories use March examples after March 2014 data update
(March is the same on this slide)*

Step 3 Put them together

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.BMI % Range	Contains	90	)	Delete
OR	)	DSQuickLook.BMI % Range	Contains	97	(	Delete
AND	(	DSQuickLook.Age	Greater Than Or Equal To	3	)	Delete
AND	)	DSQuickLook.Age	Less Than Or Equal To	17	(	Delete

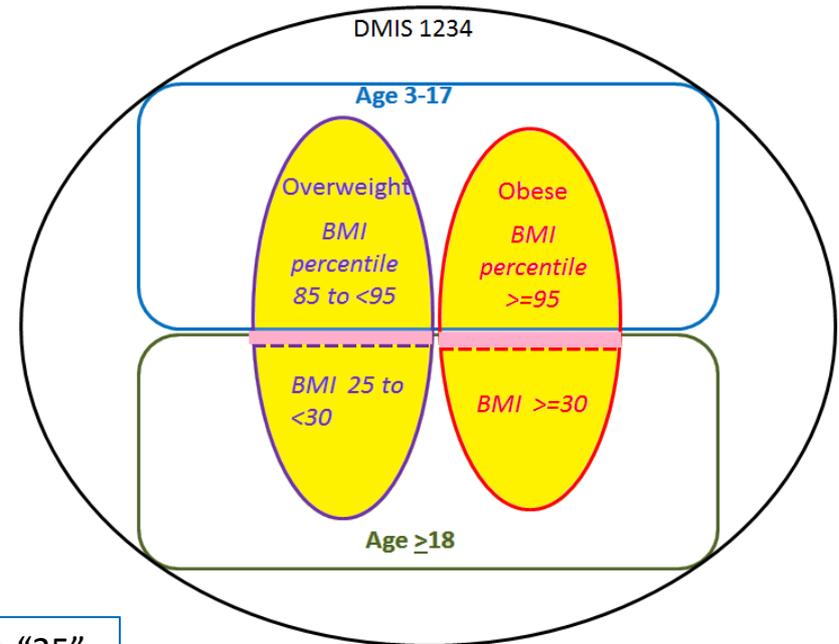
- Why did we join the two groups with AND?
 - We want the overlap between (age 3-17) and the (overweight or obese)
 - Only the enrollees who meet BOTH criteria



Obese or overweight by BMI

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.BMI	Greater Than Or Equal To	25	)	Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete

- BMI obese and overweight criteria only for adults
 - CDC: use for adults ≥ 20 yrs old
- BMI is numeric data displayed for all who had ht and wt in MTF
- Use AND because we only want enrollees who meet BOTH criteria (Yellow only)
 - *If we joined with OR we would have all >20 combined with all who have a BMI over 25 including children with BMI over 25*



Overweight or Obese: BMI greater than or equal to "25"

Obese only: BMI greater than or equal to "30"

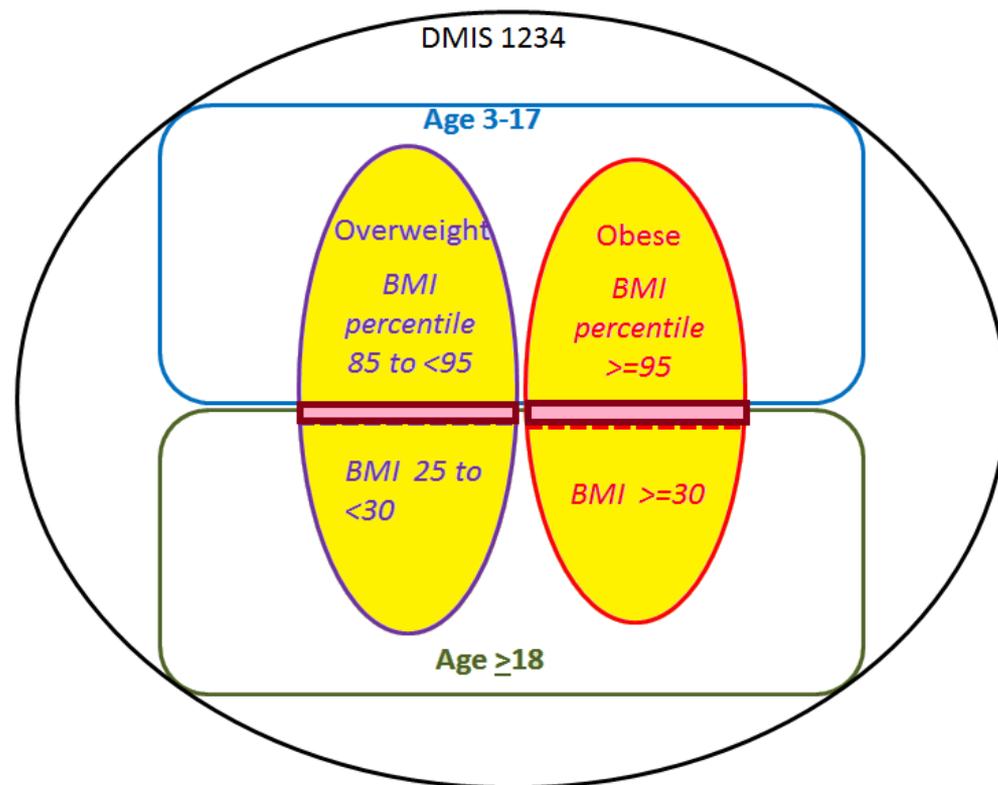
Overweight only:

- BMI greater than or equal to "25"
- AND BMI less than "30"

The 18 to 19 year olds in the pink

<input type="text"/>	<input type="text" value="(("/>	DSQuickLook.Age	Equal	<input type="text" value="18"/>	<input type="text"/>	<input type="button" value="Delete"/>
OR	<input type="text"/>	DSQuickLook.Age	Equal	<input type="text" value="19"/>	<input type="text" value=")"/>	<input type="button" value="Delete"/>
AND	<input type="text" value("(""=""/>	DSQuickLook.BMI % Range	Contains	<input type="text" value="90"/>	<input type="text"/>	<input type="button" value="Delete"/>
OR	<input type="text"/>	DSQuickLook.BMI % Range	Contains	<input type="text" value="97"/>	<input type="text" value="))"/>	<input type="button" value="Delete"/>

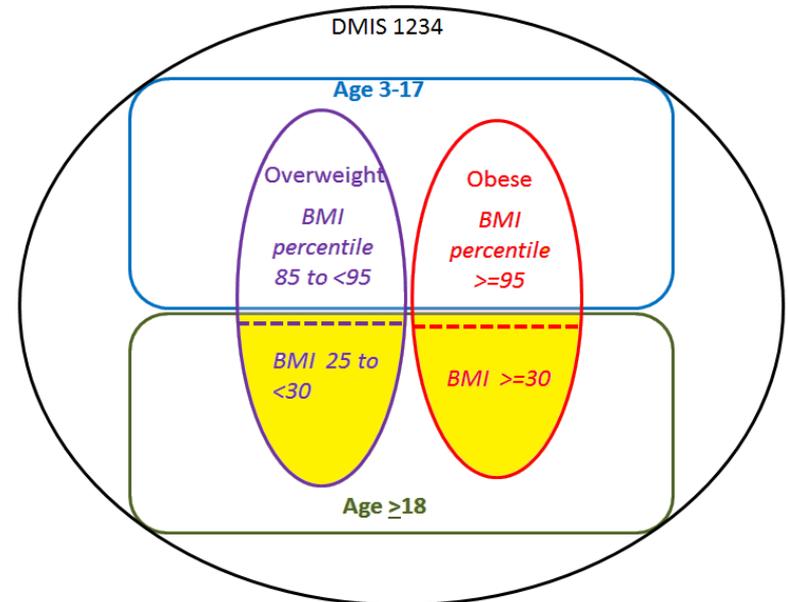
- (18 or 19 yr old) part of green box
- AND (BMI percentile is overweight or obese)
- This is an overlap of the small brown section of the green box that has 18-19 yr olds with the (purple or red) ovals



Pulling the Adults all together

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.BMI	Greater Than Or Equal To	25	)	Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete
OR	((	DSQuickLook.Age	Equal	18	)	Delete
OR		DSQuickLook.Age	Equal	19	)	Delete
AND	(	DSQuickLook.BMI % Range	Contains	90	)	Delete
OR		DSQuickLook.BMI % Range	Contains	97	))	Delete

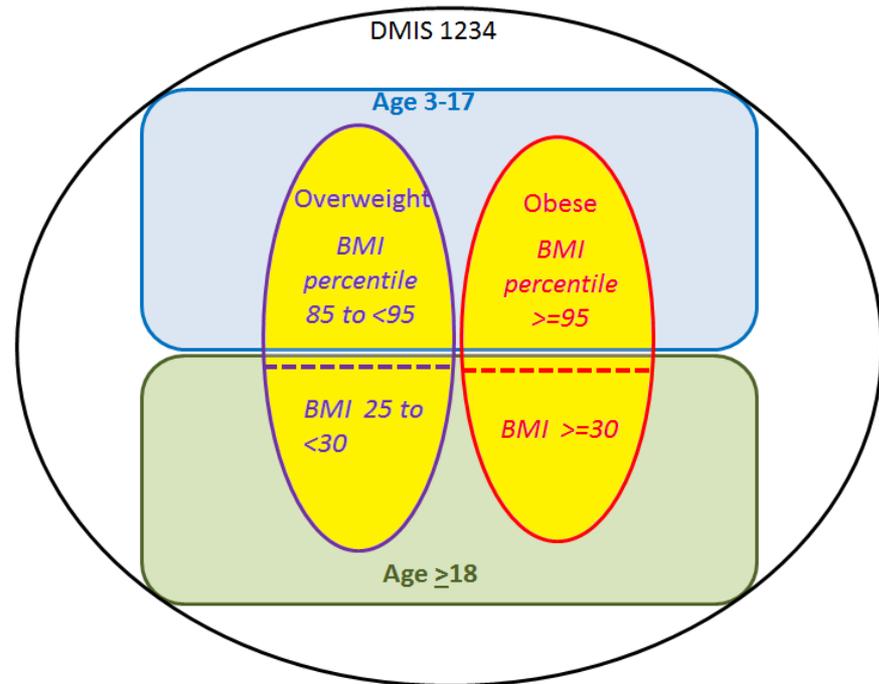
- (BMI criteria)
- OR (BMI percentile criteria)
 - There is no overlap so join with OR we want all from either one
- BMI Percentile is complex so put it in double parentheses to start and close the whole grouping



All Overweight or Obese over 3

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.BMI	Greater Than Or Equal To	25	)	Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete
OR	((	DSQuickLook.Age	Greater Than Or Equal To	3	)	Delete
OR		DSQuickLook.Age	Less Than Or Equal To	19	)	Delete
AND	(	DSQuickLook.BMI % Range	Contains	90	)	Delete
OR		DSQuickLook.BMI % Range	Contains	97	))	Delete

- Both yellow ovals
- Need BMI percentile for 3-19
- Just tweak the adult criteria
- Why do we need age criteria 3-19 why not just less than 19?
 - That is for the measures we have. If you want all patients then delete the age greater than 3 criteria to also include 2 year olds



Adult Overweight/Obese over 20 with dyslipidemia and hypertension

AND/OR	(	Selected Field	Operator	Value	)	Delete
	(	DSQuickLook.BMI	Greater Than Or Equal To	25	)	Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete
OR	((	DSQuickLook.Age	Equal	18	)	Delete
OR		DSQuickLook.Age	Equal	19	)	Delete
AND	(	DSQuickLook.BMI % Range	Contains	90	)	Delete
OR		DSQuickLook.BMI % Range	Contains	97	))	Delete
AND	(	DSQuickLook.HTN	Is Not Null	h	)	Delete
AND		DSQuickLook.Dyslip	Is Not Null	d	)	Delete
AND		DSQuickLook.PCM Name	Contains	smith	)	Delete

Based on Feb 2014 BMI% categories use March examples after March 2014 data update

**EASIER METHOD AFTER MARCH 2014
DATA UPDATE QUICKLOOK FILTER
EXAMPLE... (PREVIOUS METHOD STILL
WORKS)**

Step 1: Obese/Overweight by percentile

AND/OR	(	Selected Field	Operator	Value)	
AND ▾	▾	DSQuickLook.Notes Detail	Greater Than Or Equal To ▾	85 <input type="text"/>	▾	Delete

- Remember: 85% to <95% are overweight; $\geq 95\%$ are obese
- New categories sort as text data in same order as numeric. Makes sorting easier.

Mar 2014 BMI % Range
<3%
03-5%
05-<10%
10-<25%
25-<50%
50-<75%
75-<85%
85-<90%
90-<95%
95-97%
Over 97%

Overweight or Obese:
BMI% Range greater than or equal to
"85"

*Can also use previous option:
(Contains "90" OR contains "97")*

Obese only, 2 options:

Option 1:

BMI% Range greater than or
equal to ">95"

Option 2:

BMI% Range contains "97"

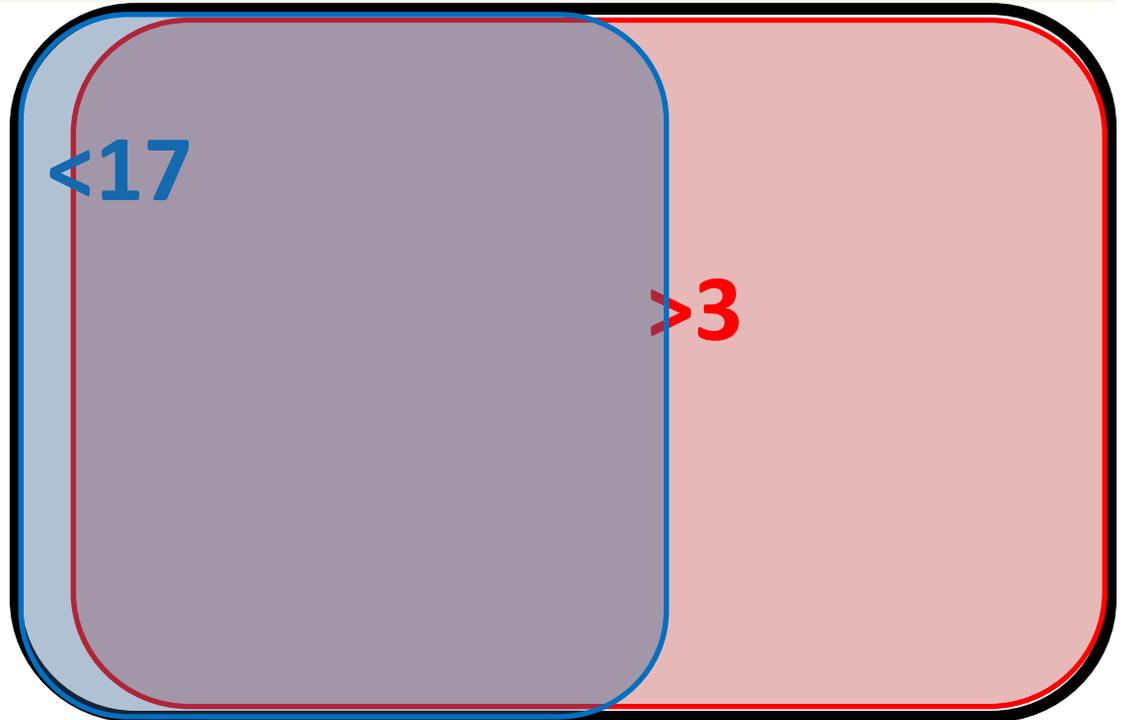
Overweight only:

BMI% Range contains "90"

Step 2: Finding children 3-17

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.Age	Greater Than Or Equal To	3	)	Delete
AND	)	DSQuickLook.Age	Less Than Or Equal To	17	(	Delete

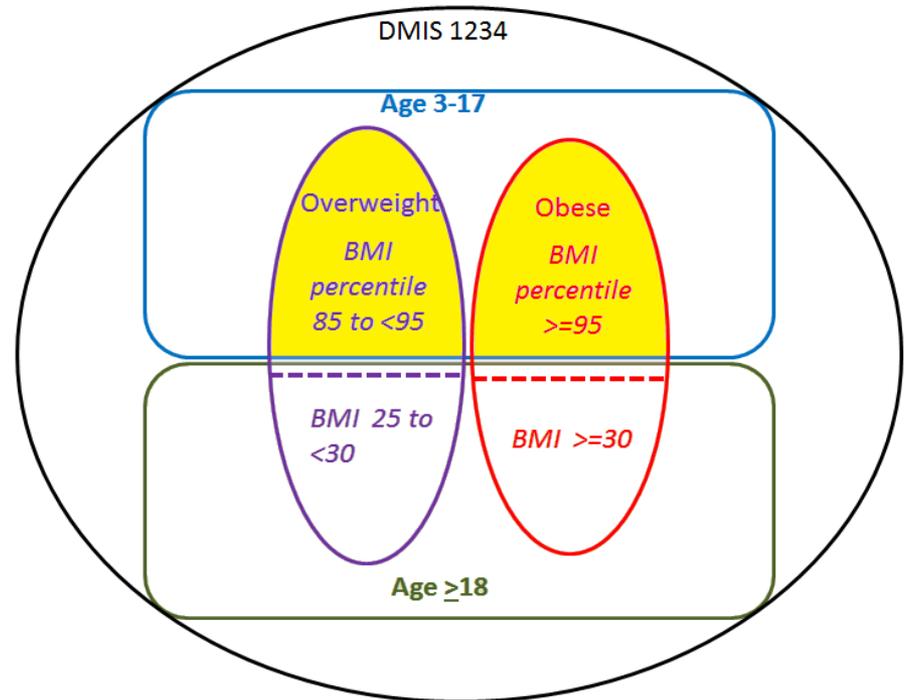
- Black Shape= total population
- RED shape are ≥ 3
- Blue are ≤ 17
- Purple overlap area = red AND blue =age 3-17
- The entire red/blue/purple area= red OR blue = all patients because all are either >3 or <17
- Put parentheses around your desired grouping



Step 3: Put them together

AND/OR	(	Selected Field	Operator	Value	)	Delete
		DSQuickLook.BMI % Range	Greater Than Or Equal To	85		Delete
AND	(	DSQuickLook.Age	Greater Than Or Equal To	3		Delete
AND		DSQuickLook.Age	Less Than Or Equal To	17	)	Delete

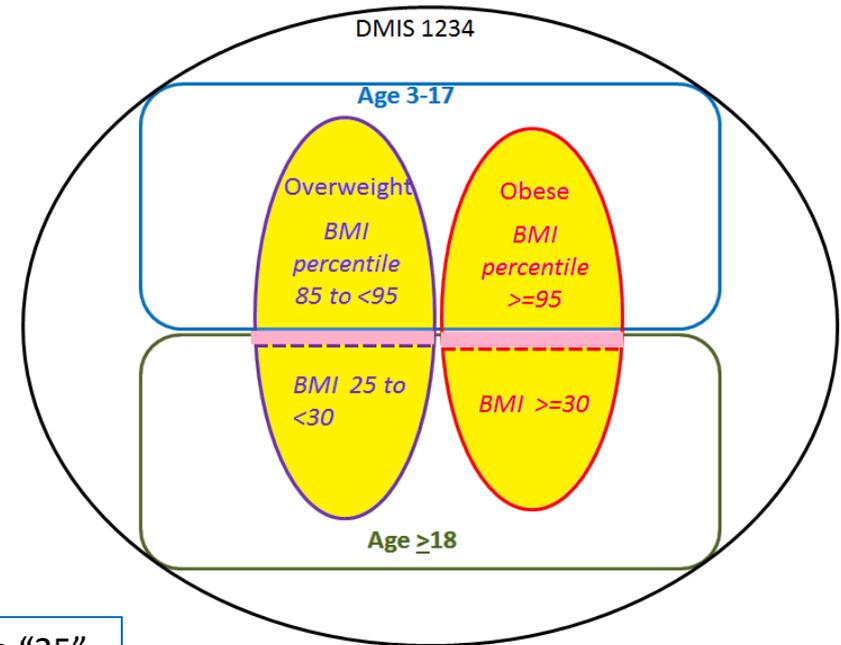
- Why did we join the two groups with AND?
 - We want the overlap between (age 3-17) and the (overweight or obese)
 - Only the enrollees who meet BOTH criteria



Adults Step1: Obese or Overweight by BMI

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.BMI	Greater Than Or Equal To	25	)	Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete

- BMI obese and overweight criteria only for adults
 - CDC: use for adults ≥ 20 yrs old
- BMI is numeric data displayed for all who had ht and wt in MTF
- Use AND because we only want enrollees who meet BOTH criteria (Yellow only)
 - *If we joined with OR we would have all >20 combined with all who have a BMI over 25 including children with BMI over 25*



Overweight or Obese: BMI greater than or equal to "25"

Obese only: BMI greater than or equal to "30"

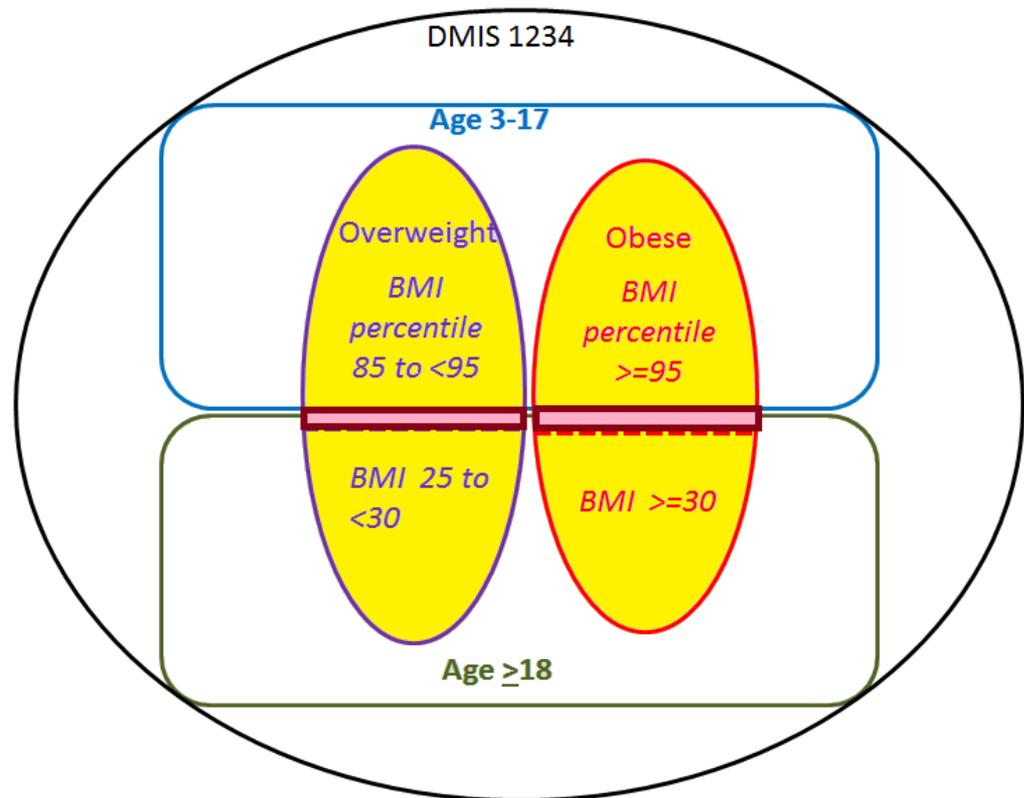
Overweight only:

- BMI greater than or equal to "25"
- AND BMI less than "30"

Adult Step2: The 18 to 19 year olds in the pink

	(	DSQuickLook.Age	Equal	18	)	Delete
OR		DSQuickLook.Age	Equal	19	)	Delete
AND	(	DSQuickLook.BMI % Range	Greater Than Or Equal To	85	)	Delete

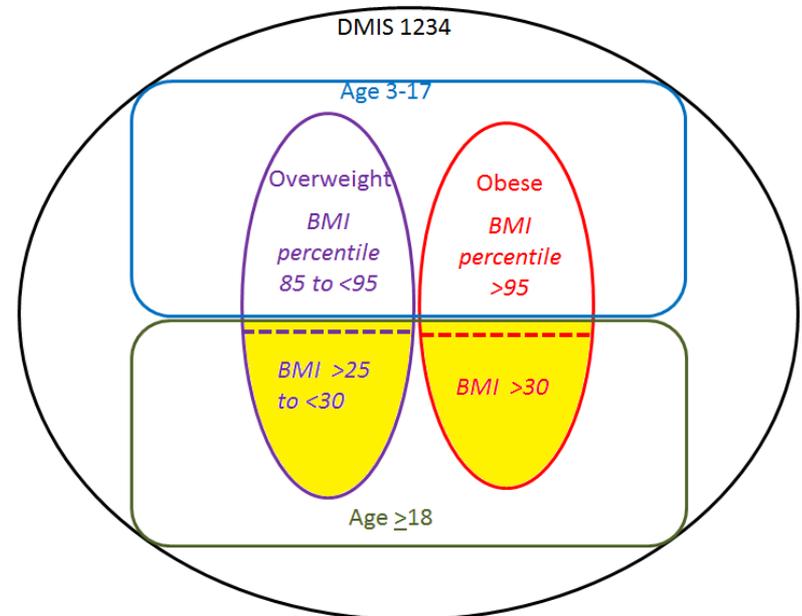
- (18 or 19 yr old) part of green box
- AND (BMI percentile is overweight or obese)
- This is an overlap of the small brown section of the green box that has 18-19 yr olds with the (purple or red) ovals



Step 3: Pulling the Adults all together

AND/OR	(	Selected Field	Operator	Value	)	Delete
	(	DSQuickLook.BMI	Greater Than	25	)	Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete
OR	((	DSQuickLook.Age	Equal	18	)	Delete
OR		DSQuickLook.Age	Equal	19	)	Delete
AND	(	DSQuickLook.BMI % Range	Greater Than Or Equal To	85	)	Delete

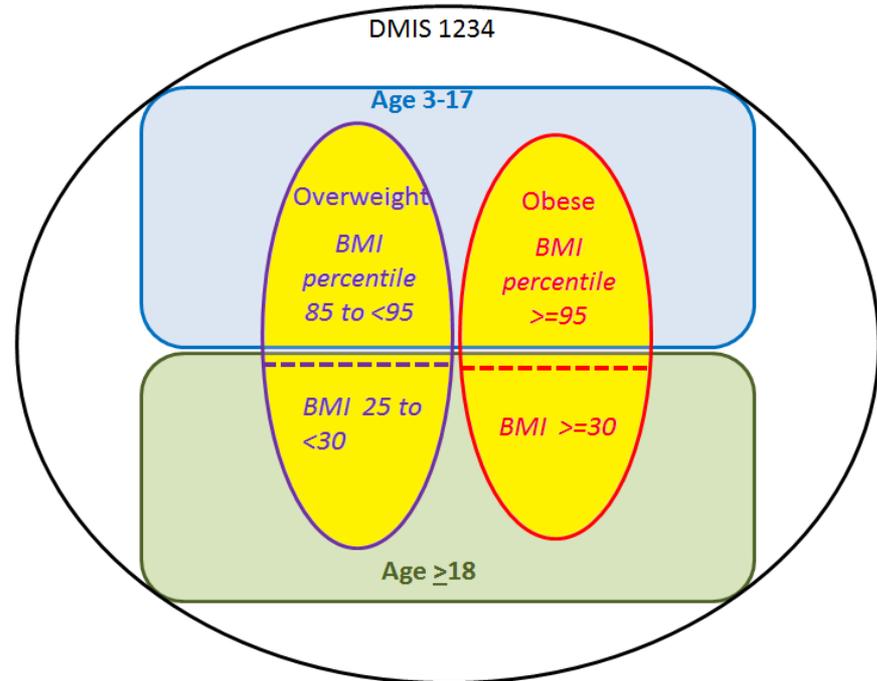
- (BMI criteria)
- OR (BMI percentile criteria)
 - There is no overlap so join with OR we want all from either one
- BMI Percentile is separate multi-step criteria group so put it in double parentheses to start and close the whole grouping



All Overweight or Obese over 3

AND/OR	(	Selected Field	Operator	Value	)	Delete
	(	DSQuickLook.BMI	Greater Than	25	)	Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete
OR	((	DSQuickLook.Age	Greater Than Or Equal To	3	)	Delete
OR		DSQuickLook.Age	Less Than Or Equal To	19	)	Delete
AND	(	DSQuickLook.BMI % Range	Greater Than Or Equal To	85	)	Delete

- Both yellow ovals
- Need BMI percentile for 3-19
- Just tweak the adult criteria
- Why do we need age criteria 3-19 why not just less than 19?
 - That is for the measures we have. If you want all patients then delete the age greater than 3 criteria to also include 2 year olds



Adult Overweight/Obese over 20 with dyslipidemia and hypertension

AND/OR	(	Selected Field	Operator	Value)	
	(	DSQuickLook.BMI	Greater Than	25		Delete
AND		DSQuickLook.Age	Greater Than Or Equal To	20	)	Delete
OR	((	DSQuickLook.Age	Equal	18		Delete
OR		DSQuickLook.Age	Equal	19	)	Delete
AND	(	DSQuickLook.BMI % Range	Greater Than Or Equal To	85	))	Delete
AND	(	DSQuickLook.HTN	Contains	h		Delete
AND		DSQuickLook.Dyslip	Contains	D)	Delete
AND		DSQuickLook.PCM Name	Contains	smith		Delete



MHSPHP

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- Questions?