



CALIFORNIA TECHNOLOGY
ASSESSMENT FORUMSM

Controversies in Obesity Management

Public Meeting

July 14, 2015

Agenda

- **Public Meeting Convened, Topic Overview** | 9:30 am
- **Presentation of the Evidence and Economic Modeling, Q&A** | 9:35 – 10:40 am (Dr. Dan Ollendorf)
- **Public Comments** | 10:40 – 11:30 am
- **Lunch** | 11:30 – 12:00 pm
- **CTAF Q&A with Experts / Deliberation and Votes** | 12:00 – 1:15 pm
- **Break** | 1:15 – 1:30 pm
- **Barriers and Potential Solutions, Policy Roundtable Discussion, Best Practice/Policy Recommendations** | 1:30 – 3:05 pm
- **Reflections from CTAF Panel** | 3:05 – 3:25 pm
- **Summary and Closing Remarks** | 3:25 – 3:30 pm
- **Meeting Adjourned** | 3:30 pm
- **Download meeting materials:** <http://tinyurl.com/CTAF-OM>

CTAF Overview

- Core program of the Institute for Clinical and Economic Review (ICER), an independent non-profit research organization that evaluates scientific evidence on the clinical effectiveness and cost implications of medical interventions
- Goal: Help patients, clinicians, insurers, and policymakers apply evidence to improve the quality and value of health care
- Deliberation and voting by CTAF Panel – independent clinicians, methodologists, and leaders in patient engagement and advocacy
- Supported by grants from the Blue Shield of California Foundation and the California HealthCare Foundation



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Evidence Review

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Institute for Clinical and Economic Review

July 14, 2015

I have no conflicts of interest.

Background

- Two-thirds of Americans overweight or obese
- Bariatric surgery: commonly employed for class 3 (BMI 40+) or class 2 (BMI 35-39.9) obesity
 - Uncertainties: long-term effectiveness and safety, best practices for patient selection and follow-up, outcomes in patients with BMI <35
- Newer treatment options:
 - Devices: vagus nerve block, temporary intragastric balloons, GI liner system
 - Drugs: liraglutide, lorcaserin, naltrexone/bupropion, phentermine/topiramate

Objective

- Evaluate evidence on comparative clinical effectiveness and comparative value of bariatric surgery, devices, and drugs vs. conventional weight-loss management (combinations of diet, exercise, and/or behavioral/ lifestyle interventions)
 - Universal comparator in nearly all RCTs and cohort studies
 - Indirect comparisons between intervention types problematic due to marked differences in baseline characteristics and clinical comorbidity

Methods

- *Target population:* adults (18+) and adolescents (12-17) who are overweight or obese (BMI 25+)
- *Interventions:*
 - Surgery: Roux-en-y gastric bypass (RYGB), vertical sleeve gastrectomy (VSG), laparoscopic adjustable gastric banding (LAGB), biliopancreatic diversion with or without duodenal switch (BPD±DS)
 - Devices: Maestro[®], EndoBarrier[®], various balloons
 - Drugs: BELVIQ[®], Contrave[®], Qsymia[®], Saxenda[®]

Methods (2)

- *Comparators:*
 - Conventional weight-loss management
 - Head-to-head comparisons (most commonly between surgical approaches)
- *Outcomes:*
 - Mortality
 - Weight loss
 - Resolution of obesity-linked comorbidities
 - Quality-of-life (QoL) and functional outcomes
 - Complications and other adverse effects

Study Selection

- Primary focus on good- and fair-quality RCTs and prospective comparative cohort studies
- Retrospective comparative cohort data assessed separately from RCTs and prospective cohorts
- Case series data generally reserved for information on longer-term (>2 years) outcomes and evaluated separately:
 - Exception: devices, where follow-up terminates at balloon or DJBL removal (typically 6 months)

Level of Certainty in Evidence by BMI Class and Intervention Type

| BMI | <30 | | 30-34.9 | | 35-39.99 | ≥40 | |
|--------------------------|-----|----|---------|----|----------|-----|-----------------------|
| T2DM | Yes | No | Yes | No | --- | --- | |
| Bariatric Surgery | | | | | | | |
| BPD | | | | | | | |
| LAGB | | | | | | | |
| RYGB | | | | | | | |
| VSG | | | | | | | |
| Devices | | | | | | | Key |
| IGB | | | | | | | No evidence |
| DJBL | | | | | | | Low certainty |
| vBloc | | | | | | | Moderate certainty |
| Drugs | | | | | | | High certainty |
| Liraglutide | | | | | | | |
| Lorcaserin | | | | | | | |
| N/B | | | | | | | |
| P/T | | | | | | | |

BPD: biliopancreatic diversion; LAGB: laparoscopic adjustable gastric banding; RYGB: Roux-en-y gastric bypass; VSG: vertical sleeve gastrectomy; IGB: intragastric balloon; DJBL: dudoneal-jejunal bypass liner; vBloc: vagus nerve blocking device; N/B: naltrexone/bupropion; P/T: phentermine/topiramate

BARIATRIC SURGERY

Surgery vs. Conventional Weight-Loss Management

- Mortality:
 - 20-40% reductions in rate of all-cause mortality at 7-15 years of follow-up
 - Some data concerns (e.g., independent effects of weight loss, health status of controls)
- Weight loss:
 - Meta-analysis: in patients with BMI ≥ 35 , pooled mean difference of 7.4 kg/m² lost vs. conventional management (95% CI: 6.2, 8.6; range: 5-14)

Surgery vs. Conventional Weight-Loss Management (2)

- Comorbidity Resolution:
 - Type 2 diabetes most frequently studied by far
 - Nearly all studies of RYGB or LAGB in patients with BMI 30-34.9
 - Meta-analysis: surgical patients nearly 4 times more likely to achieve resolution (log OR 3.6; 95% CI 2.5, 4.7; range: 2.0-7.0)
 - Hypertension and hyperlipidemia also frequently tracked in diabetic populations
 - Very limited comparative evidence on comorbidity resolution other than diabetes (e.g., asthma, arthritis, sleep apnea)

Surgery vs. Conventional Weight-Loss Management (3)

- Adolescents:
 - Single RCT of 50 patients, age 14-18 (mean BMI 41), undergoing LAGB or lifestyle intervention*
 - Difference of ~12 kg/m² lost in favor of LAGB
- Long-term outcomes (other than mortality):
 - Challenged by attrition, survivor bias, and crossover
 - <3% of more than 1,000 long-term studies had 80% or better sample retention after 2 years**
 - Best available data suggest 5-10% weight regain and 30-40% comorbidity relapse beyond 2 years of follow-up

*O'Brien et al., JAMA 2010;303(6):519-526.

**Puzziferri et al., JAMA 2014;312(9):934-942

Head-to-Head Evidence Comparing Variants of Bariatric Surgery

- Total of 24 good- and fair-quality studies comparing bariatric surgical procedures
- Meta-analysis of BMI change only feasible for RYGB vs. VSG
- No statistically-significant differences in BMI change between these two procedures in any individual study or overall

Harms of Bariatric Surgery

Prospective Studies

| Procedure | # of Studies | # of Patients | Follow-Up; Range, Median (Months) | Complication Rate; Range, Median (%)* | Reoperation Rate; Range, Median (%) | # of Deaths |
|-----------|--------------|---------------|-----------------------------------|---------------------------------------|-------------------------------------|-------------|
| BPD | 7 | 189 | 12-60, 18 | 17-79, 31.6 | 3-45, 13.0 | 0 |
| LAGB | 14 | 13,005 | 12-120, 24 | 3-61, 17.9 | 1-33, 14.8 | 11 |
| RYGB | 26 | 15,830 | 1-120, 16 | 0-78, 19.4 | 0-33, 6.0 | 62 |
| VSG | 12 | 2,613 | 12-36, 12 | 1-80, 9.5 | 0-17, 2.0 | 2 |

Retrospective Studies

| Procedure | # of Studies | # of Patients | Follow-Up; Range, Median (Months) | Complication Rate; Range, Median (%)* | Reoperation Rate; Range, Median (%) | Mortality Rate; Range, Median (%) |
|-----------|--------------|---------------|-----------------------------------|---------------------------------------|-------------------------------------|-----------------------------------|
| BPD | 9 | 2,659 | 3-63 (24) | 8-83, 26.9 | 0-30, 3.6 | 0-2.9, 1.40 |
| LAGB | 17 | 16,335 | 3-72 (29) | 0-53, 10.1 | 0-44, 7.4 | 0-2.0, 0.15 |
| RYGB | 23 | 840,895 | 2-72 (29) | 0-78, 9.2 | 0-22, 5.8 | 0-4.3, 1.94 |
| VSG | 11 | 16,574 | 2-63 (23) | 0-80, 8.8 | 0-17, 3.9 | 0-3.9, 0.07 |

* Complication rate may include reoperations in some studies

Bariatric Surgery: Summary

- BMI of 35 or greater:
 - 20-40% lower rates of all-cause mortality vs. conventional weight-loss management over 7-15 yrs of follow-up
 - Reductions in body weight of 6-9 kg/m² over 1-2 yrs of follow-up
 - Moderate certainty of substantial net health benefit
- BMI of 30-34.9 and Type 2 diabetes
 - Nearly four-fold greater likelihood of resolution vs. conventional management over 1-2 yrs of follow-up (36-100% vs. 0-6%)
 - Suggestion of relatively high rates of relapse at 3-4 years
 - Moderate certainty of small or moderate net health benefit
- Insufficient evidence for BMI 30-34.9 without Type 2 diabetes

Bariatric Surgery: Summary (2)

- Head-to-head study:
 - RYGB vs. VSG: moderate certainty of comparable net health benefit
 - Limited comparative data for other procedures, and trends in the field suggest above comparison is the most relevant
- Insufficient evidence:
 - Adolescent populations
 - BMI <30

DEVICES

Maestro vBloc Device

- Only device of interest with FDA approval
- 2 RCTs, but only one of current-generation device*
 - N=239 (84% female; mean age 47; mean BMI 41)
 - Published data available for 12 months of follow-up; sham-controlled study
 - Excess weight loss (EWL): 24.4% vs. 15.9% for sham (p=.002)
 - Total weight loss: 10.9 kg vs. 7.3 kg for sham
 - Serious complications occurred in 6 (3.7%) device patients; 5 (3.1%) required device removal

Maestro vBloc Device: Summary

- Single RCT of current-generation device
- Modest improvement in excess weight loss vs. sham device, primary efficacy endpoint (10% greater EWL) not met
- Uncertainty regarding longer-term effectiveness and safety
- Low certainty of a small or comparable net health benefit

Intragastric Balloons

- No currently-approved balloon systems in US
- 7 studies (5 RCTs) but problematic evidence base:
 - Variability in balloon duration and # of placements
 - Inconsistent data on weight trends and follow-up after balloon removal
 - Early removal in up to 20% of patients
- Judgment: low certainty of comparable net benefit vs. conventional weight-loss management

EndoBarrier Device

- Not approved in US
- Two RCTs (n=114):
 - Mixed evidence on weight loss
 - Complications led to early device removal in majority of patients in one RCT
 - Ongoing RCT halted due to infection concerns
- Judgment: insufficient evidence on net health benefit vs. conventional weight-loss management

MEDICATIONS

Medications

- No head-to-head comparisons
- Most studies limited to 1 year of follow-up; some crossover data available at 2 years
- Network meta-analysis: no material differences in effectiveness or discontinuation due to adverse events (AEs)

Medications (2)

- Liraglutide (Saxenda):
 - 3 RCTs (n=~4,700*) showed 5-6% incremental weight loss vs. placebo or orlistat at 1-2 years of follow-up
 - Liraglutide 2-4 times more likely to achieve 5% or 10% weight loss than comparators (placebo or orlistat with lifestyle intervention)
 - GI distress most common side effect; discontinuation due to AEs in 7-9% of patients
- Lorcaserin (BELVIQ):
 - 3 RCTs (n=~4,600) showed 3-4% incremental weight loss vs. placebo/lifestyle intervention at 1 year
 - Lorcaserin 2-3 times more likely to achieve 5% or 10% weight loss than lifestyle intervention alone
 - Discontinuation due to AEs in 4-9% of patients

*with addition of Pi-Sunyer et al., NEJM 7/2/15

Medications (3)

- Naltrexone/Bupropion (N/B) (Contrave):
 - 4 RCTs (n=~4,500) showed 3-4% incremental weight loss vs. placebo at 56 weeks of follow-up
 - N/B 2-3 times more likely to achieve 5% and 10% weight loss than lifestyle intervention alone
 - Discontinuation due to AEs in 20-30% of patients
- Phentermine/Topiramate (P/T) (Qsymia):
 - 5 RCTs (n=~4,500) showed 6-7% incremental weight loss vs. placebo/lifestyle intervention at 6-12 months (8-10% for higher dose)
 - P/T 2-4 times more likely to achieve 5% or 10% weight loss than lifestyle intervention alone
 - Discontinuation due to AEs in 12-16% of patients (larger studies)

Medications: Summary

- Data from 14 RCTs across 4 medications
- All 4 drugs result in greater weight loss than lifestyle intervention alone, but benefits modest
 - Indicated for BMI 30+ or 27+ with obesity-linked comorbidities
 - Studies conducted in adults only
- Discontinuation due to AEs variable but not inconsequential
- Summary judgment: small net benefit, moderate certainty for all medications

Public Comments Received

- Goal of review should be to expand the treatment armamentarium
- Obesity is a chronic, relapsing, and remitting condition, and treatment should be evaluated in this light
- Variety of unpublished studies provided
- Clarity around BMI classes studied for each intervention of interest



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Economic and Health-System Value Analysis

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Economic Analysis Components

- Incremental costs per outcomes: ICER simulation model of 1- and 10-year costs and outcomes of:
 - Each bariatric surgical procedure
 - N/B pharmacotherapy (largest evidence base at recommended dose)
 - vBloc therapy (only FDA-approved device)
 - Drug/device used in sequence with surgery
- Health System Value:
 - Potential budgetary impact of extending bariatric surgery to a) all patients with BMI 30-34.9, and b) patients in this BMI class with diabetes

Incremental Cost per Outcomes: Methods

- All BMI ≥ 30 and broken down by class
- Universal comparator: conventional weight-loss management
- Outcome: Quality-adjusted life years (QALYs)
- Effectiveness driven by BMI reductions:
 - Mortality: changes driven by BMI reductions
 - 1-yr data from RCTs; further trajectory modeled using observational study data
 - Reduction in mortality with bariatric surgery: 30%
- QoL and costs based on data linked to BMI class
- Other costs (e.g., intervention, complications) from published sources

Incremental Costs per Outcomes: 1-Year Findings, BMI ≥30

| Outcome/Cost | Standard Care | N/B | vBloc | RYGB | VSG | LAGB | BPD±DS |
|--------------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| BMI ≥30 | | | | | | | |
| <i>Clinical Outcome</i> | | | | | | | |
| BMI loss (mean) | 1.4 | 3.0 | 3.8 | 10.4 | 9.8 | 7.8 | 12.5 |
| Death (%) | 1% | 1% | 1% | 2% | 2% | 2% | 2% |
| Reoperation (%) | 0% | 0% | 6%** | 6% | 3% | 12% | 7% |
| Medical complication (%) | 0% | 0% | 4% | 11% | 13% | 2% | 21% |
| <i>Costs (\$)</i> | | | | | | | |
| Procedure | \$0 | \$1,645 | \$17,500 | \$24,277 | \$18,788 | \$15,987 | \$36,160 |
| Reoperation | \$0 | \$0 | \$710 | \$787 | \$402 | \$1,478 | \$893 |
| Other Complications* | \$3,710 | \$3,710 | \$4,364 | \$5,035 | \$5,167 | \$4,570 | \$5,925 |
| TOTAL | \$3,710 | \$5,355 | \$22,574 | \$30,099 | \$24,357 | \$22,035 | \$42,979 |

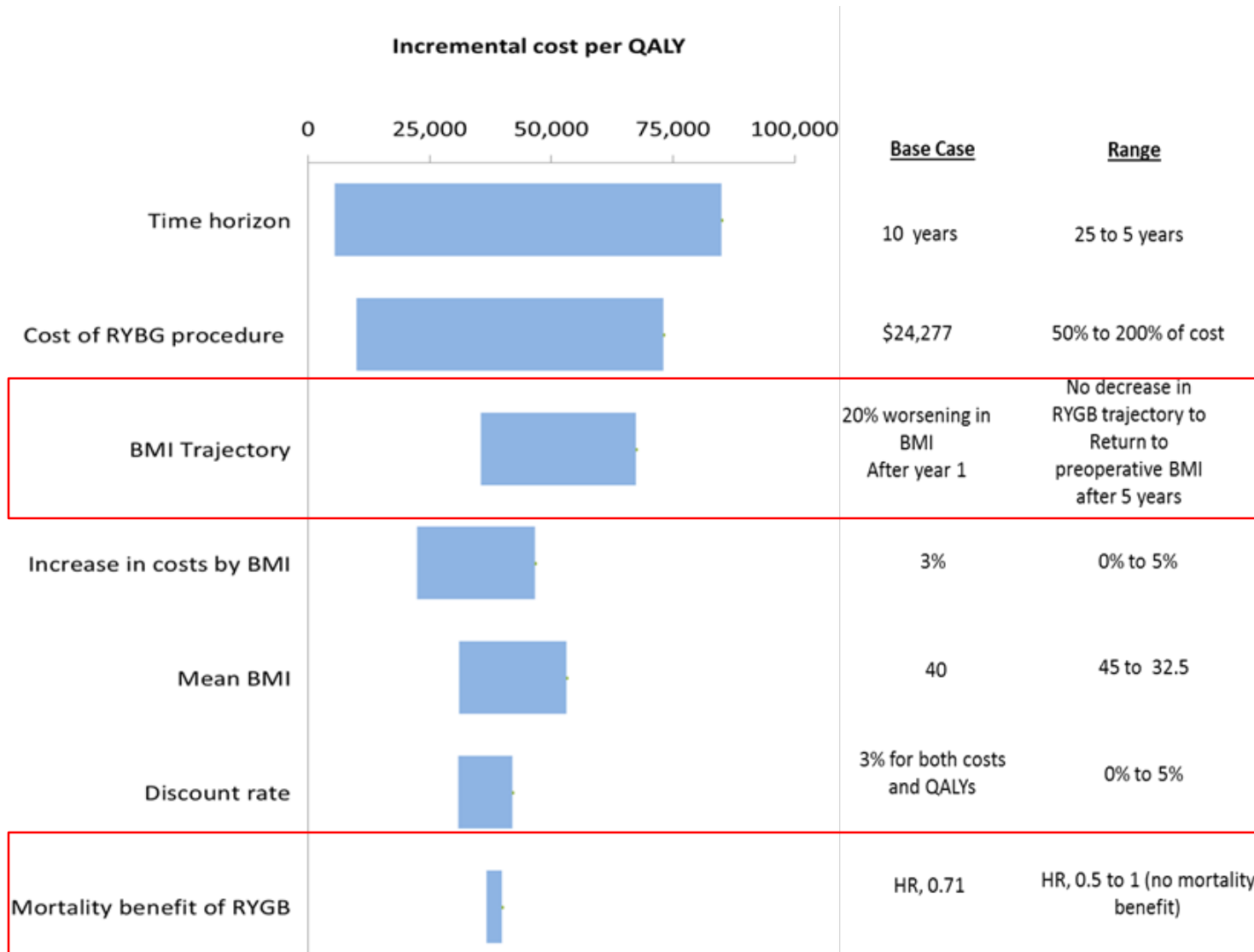
* Includes age-related background health care costs for obesity derived from Østbye 2014

** 5.6% of vBloc patients assumed to have the device removed

Incremental Cost/QALY: 10-Year Findings, BMI ≥30

| BMI Level/Procedure | Cost (\$) | Effectiveness (QALYs) | Cost-effectiveness (\$/QALY gained) | |
|----------------------|-----------|-----------------------|-------------------------------------|---------------------------------|
| | | | vs. standard care | vs. RYGB |
| BMI≥30 | | | | |
| Standard care | \$34,923 | 7.5680 | N/A | Less expensive & less effective |
| N/B | \$47,732 | 7.6656 | \$131,250 | Less expensive & less effective |
| vBloc | \$51,471 | 7.7191 | \$109,543 | Less expensive & less effective |
| RYGB | \$54,110 | 8.0807 | \$37,423 | N/A |
| VSG | \$48,702 | 8.0417 | \$29,087 | Less expensive & less effective |
| LAGB | \$47,668 | 7.9252 | \$35,680 | Less expensive & less effective |
| BPD±DS | \$65,741 | 8.2307 | \$46,508 | \$77,574 |

Sensitivity Analyses: RYGB vs. Conventional Weight-Loss Management



Treatment Sequencing

- Incremental cost-effectiveness of N/B continuation for patients achieving 5% or 10% weight loss, switch to RYGB for all others:
 - \$41,000 - \$44,000 per QALY gained vs. conventional weight-loss management (vs. >\$130,000 for N/B alone)
- Incremental cost-effectiveness of vBloc continuation for patients achieving 10% weight loss, switch to RYGB for all others:
 - \$104,000 per QALY gained (vs. \$109,000 for vBloc alone)

Health-System Value: Methods

- Prevalence of BMI 30-34.9 in Medicaid: ~28%
 - 11% of these patients have diagnosed or undiagnosed diabetes
- Applied proportions to estimated number of adults enrolled in Medi-Cal: ~6.6 million
- One-year budgetary impact of adopting surgery based on difference in one-year costs between VSG (least expensive common surgical procedure) and conventional weight-loss management: ~\$21,000
- Applied to varying assumed percentages of surgical adoption, also included 10-year offsets

Health-System Value: Results

| Measure | All Enrollees (11.7 million) | Adults with BMI 30-34.9 (25% Receive Surgery) | Adults with BMI 30-34.9 and diabetes (25% receive surgery) |
|-------------------------------------|---------------------------------|--|--|
| One-Year Costs* | | | |
| Total Expenditures | \$77,500,800,000 | \$9,325,884,204 | \$1,025,847,262 |
| PMPM | \$552 | \$66.42 | \$7.31 |
| % Increase | --- | 12.03% | 1.32% |
| One-Year Costs with Offset** | | | |
| Total Expenditures | \$77,500,800,000 | \$7,420,688,730 | \$816,275,760 |
| PMPM | \$552 | \$52.85 | \$5.81 |
| % Increase | --- | 9.57% | 1.05% |

*Assumed one-year difference in cost between VSG and standard care of \$20,554

**Adjusted one-year difference for downstream cost offsets of \$16,355

Insurance PMPM increase if 10% of candidate population receives surgery:

- 4.8% for all patients with BMI 30-34.9
- 0.5% for patients with diabetes and BMI 30-34.9

Public Comments Received: Model

- “Dollars per pound lost” measures have no place in critical analyses
- Consider FDA-approved labeling for model assumptions (e.g., discontinue medication if 5% weight loss not achieved)
- Incorporate adherence assumptions into model
- Many fewer patients opt for obesity treatment than assumed in health-system value analysis
- Include costs of lifetime follow-up care post-surgery

Summary

- Findings from incremental cost per outcomes analysis similar to other published models for bariatric surgery
 - Surgery falls within generally-accepted cost-effectiveness thresholds vs. conventional weight-loss management
 - Most favorable results seen in highest BMI class
- Incremental costs per outcomes of medication-based treatment most favorable when assessed in sequence with surgery
- Potential budgetary impact of expanding bariatric surgery to all patients with BMI 30-34.9 is substantial but less pronounced when limited to patients in this class with diabetes



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Questions for Deliberation

July 14, 2015

Comparative *Clinical Effectiveness*

Example Question

Is the evidence “**adequate**” to demonstrate that “**intervention A**” is superior to “**comparator B**” for patients with “**condition X**”?

Yes

No

Care Value Example Question

From the perspective of a Medicaid program, what is the care value of “**intervention A**” vs “**comparator B**”?

- A. **Low**
- B. **Intermediate**
- C. **High**



Health System Value Example

Question

Assuming baseline pricing and payment mechanisms, what would be the **health system value** of “**intervention A**” for a state Medicaid program?

- A. **Low**
- B. **Intermediate**
- C. **High**



Practice Question

What is your favorite professional basketball team?

- A. Cleveland Cavaliers**
- B. Cleveland Cavaliers**
- C. Cleveland Cavaliers**
- D. Golden State Warriors**

Bariatric Surgery: BMI 30.0-34.9, T2DM

Q1. For adult patients with a BMI of 30.0-34.9 and Type 2 diabetes, is the evidence adequate to demonstrate that the net health benefit of *bariatric surgery* is greater than that of *conventional weight-loss management*?

Yes

No

Bariatric Surgery: BMI 30.0-34.9

Q2. For adult patients with a BMI of 30.0-34.9 who do not have Type 2 diabetes, is the evidence adequate to demonstrate that the net health benefit of *bariatric surgery* is greater than that of *conventional weight-loss management*?

Yes

No

RYBG and VSG: BMI ≥ 35

Q3. For adult patients with a BMI ≥ 35 , is the evidence adequate to demonstrate that *RYGB* and *VSG* have a comparable net health benefit?

Yes

No

Maestro vBloc: BMI ≥ 35

Q4. For adult patients with a BMI ≥ 35 , is the evidence adequate to demonstrate that the net health benefit of *the Maestro vBloc system* is greater than *that of conventional weight-loss management*?

Yes

No

Drugs: BMI ≥ 30 or BMI ≥ 27 w/ comorbidity

Q5. For adult patients with a BMI ≥ 30 or BMI ≥ 27 with an obesity-related comorbidity, is the evidence adequate to distinguish the net health benefit among the four drugs reviewed?

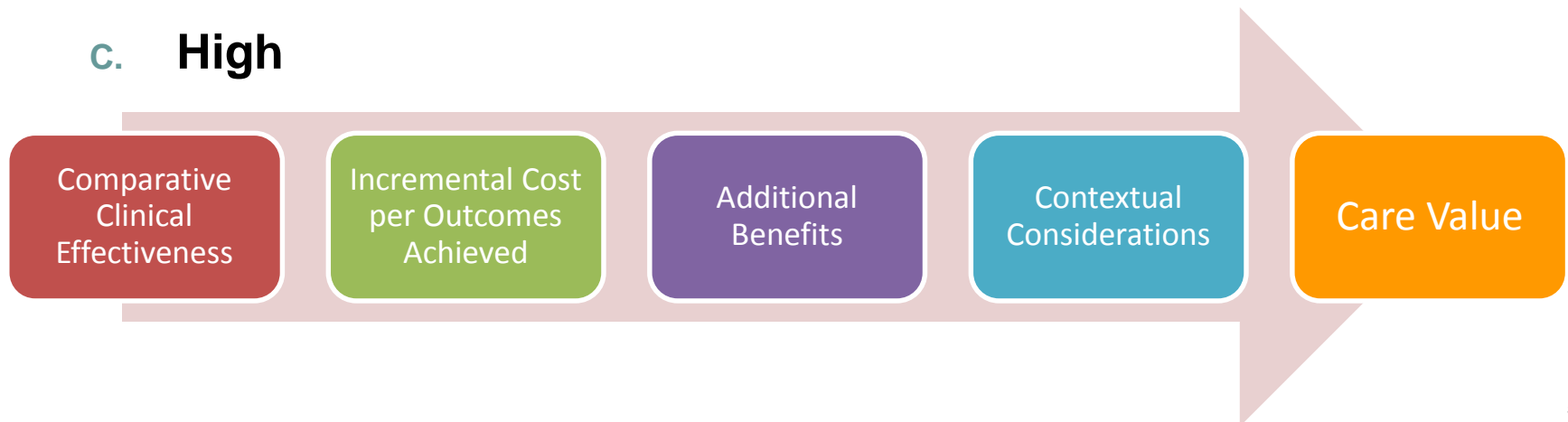
Yes

No

Care Value: Bariatric Surgery, BMI 30.0-34.9, T2DM

Q6. [If yes to question 1– adult patients with a BMI 30.0-34.9, and Type 2 diabetes] Given the available evidence, what is the care value of bariatric surgery vs. conventional weight-loss management?

- A. Low
- B. Intermediate
- C. High



Health System Value: Bariatric Surgery, BMI 30.0-34.9, T2DM

Q7. [If yes to question 1] Given the available evidence, what is the overall health system value of bariatric surgery for a state Medicaid program?

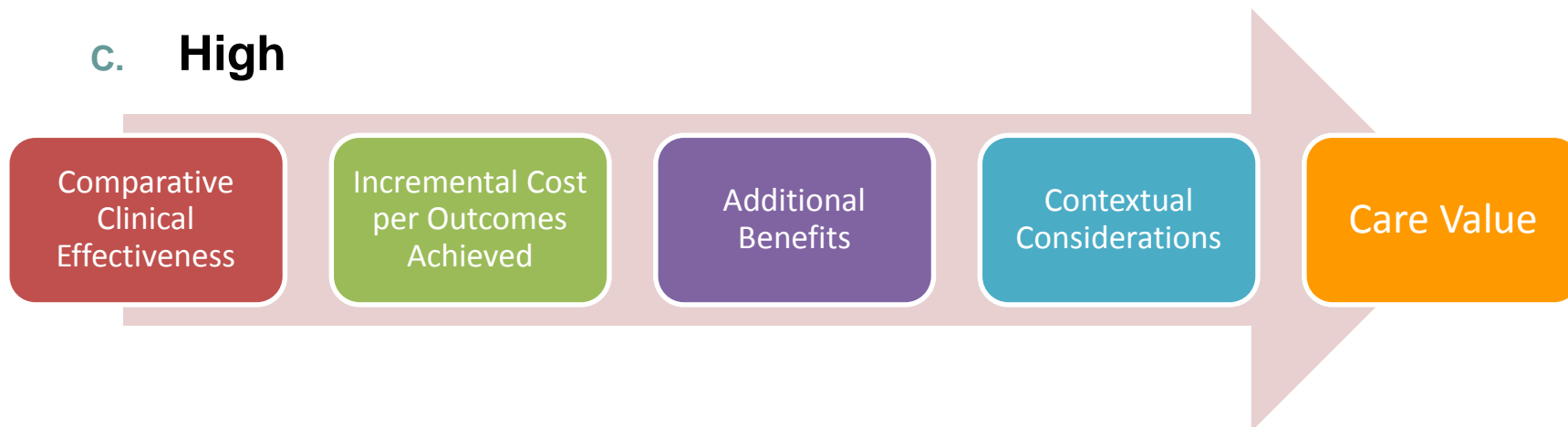
- A. Low
- B. Intermediate
- C. High



Care Value: Bariatric Surgery, BMI 30.0-34.9

Q8. [If yes to question 2 – adult patients with a BMI 30.0-34.9, who do not have Type 2 diabetes] Given the available evidence, what is the care value of bariatric surgery vs. conventional weight-loss management?

- A. Low
- B. Intermediate
- C. High



Health System Value: Bariatric Surgery, BMI 30.0-34.9

Q9. [If yes to question 2] Given the available evidence, what is the overall health system value of bariatric surgery for a state Medicaid program?

- A. Low
- B. Intermediate
- C. High



Care Value: Maestro vBloc, BMI ≥ 35

Q10. [If yes to question 4 – adult patients with a BMI ≥ 35] Given the available evidence, what is the care value of the Maestro vBloc system vs. conventional weight-loss management?

- A. Low
- B. Intermediate
- C. High



Health System Value: Maestro vBloc, BMI ≥ 35

Q11. [If yes to question 4] Given the available evidence, what is the overall health system value of the Maestro vBloc system for a state Medicaid program?

- A. Low
- B. Intermediate
- C. High



Policy Roundtable Participants

- **Joel Brill, MD, FACP**, Medical Director, FAIR Health Inc., Chief Medical Officer, Predictive Health, LLC
- **Alexander Li, MD**, Deputy Director, Care Transitions, Los Angeles Department of Health Services
- **John Morton, MD, MPH, FACS, FASMBS**, Chief of Bariatric and Minimally Invasive Surgery, Stanford University School of Medicine; President, American Society for Metabolic and Bariatric Surgery
- **Sameer Murali, MD, MSHS**, Bariatric/Internal Medicine, Southern California Permanente Medical Group
- **Philippe Jean Quilici, MD, FACS**, Attending Physician, Department of Surgery, Providence St. Joseph Medical Center and Cedars-Sinai Medical Center
- **Michelle Vicari**, Patient Advocate
- **John Yao, MD, MBA, MPH, MPA, FACP**, Staff Vice President of Medical Policy, Anthem