## IMPLEMENTING HEALTH REFORM

# **Community Health Centers**

◆he Affordable Care Act includes \$11 billion in new funding to significantly expand the reach of federally qualified health centers, known as community health centers. The bulk of the funding, \$9.5 billion, will be used to fund new health centers and to expand patient capacity at existing centers. Over the next 5 years, that funding is expect-

<u>Hypertriglyceridemia</u>: Patients with fasting serum TG levels above 500 mg/dL were excluded from the diabetes clinical trials. In the phase 3 diabetes trials, 637 (63%)

patients had baseline fasting serum TG levels less than 200 mg/dL, 261 (25%)

had baseline fasting serum TG levels between 200 and 300 mg/dL, 111 (11%) had baseline fasting serum TG levels between 300 and 500 mg/dL, and 9 (1%)

had fasting serum TG levels greater than or equal to 500 mg/dL. The median baseline fasting TG concentration for the study population was 172 mg/dL; the median post-treatment fasting TG was

195 mg/dL in the WELCHOL group and 177 mg/dL in the placebo group. WELCHOL therapy resulted in a median

placebo-corrected increase in serum TG of 5% (p=0.22), 22% (p<0.001), and 18% (p<0.001) when added to metformin, insulin and sulfonylureas, respectively

[See Warnings and Precautions (5.2) and Clinical Studies (14.2) in the full

prescribing information]. In comparison, WELCHOL resulted in a median increase in serum TG of 5% compared to placebo

(p=0.42) in a 24-week monotherapy lipid-lowering trial [See Clinical Studies

(14.1) in the full prescribing information].

Treatment-emergent fasting TG concentrations ≥500 mg/dL occurred in 4.1% of WELCHOL-treated patients

compared to 2.0% of placebo-treated patients. Among these patients, the TG

concentrations with WELCHOL (median 604 mg/dL; interquartile range 538-712

mg/dl ) were similar to that observed with

rig/dL) were similar to triat observed witr placebo (median 644 mg/dL; interquartile range 574-724 mg/dL). Two (0.4%) patients on WELCHOL and 2 (0.4%) patients on placebo developed TG

elevations ≥1000 mg/dL. In all WELCHOL clinical trials, including studies in patients

with type 2 diabetes and patients with primary hyperlipidemia, there were no reported cases of acute pancreatitis

associated with hypertriglyceridemia.
It is unknown whether patients with more

uncontrolled, baseline hypertriglyceridemia would have greater increases in serum TG levels with WELCHOL [See Contraindications (4) and Warnings and Precautions (5.2)].

or patents with rearriest-energent serious adverse events involving the cardiovascular system was 3% (17/566) in the WELCHOL group and 2% (10/562) in the placebo group. These overall rates included disparate events (e.g., myocardial infarction, aortic stenosis, and bradycardia);

therefore, the significance of this imbalance

<u>Hypoglycemia</u>: Adverse events of hypoglycemia were reported based on the clinical judgment of the blinded

investigators and did not require confirmation with fingerstick glucose

treated with placebo. No WELCHOL treated patients developed severe

6.2 Post-marketing Experience The following additional adverse reactions have been identified during post-approval

possible to reliably estimate their frequency or establish a causal

relationship to drug exposure.

hypoglycemia.

testing. The overall reported incidence of hypoglycemia was 3.0% in patients treated with WELCHOL and 2.3% in patients

use of WELCHOL. Because these reactions

are reported voluntarily from a population of uncertain size, it is generally not

Cardiovascular adverse events: During the diabetes clinical trials, the incidence of patients with treatment-emergent ed to double community health center capacity to about 40 million patients. The first \$1 billion in funding is being distributed this year.

Dr. Gary Wiltz, who runs a network of community health centers in rural Louisiana, explains how the new funding and other provisions of the ACA will impact primary care in underserved areas.

CARDIOLOGY NEWS: The ACA would help expand services to an additional 20 million patients. Will that begin to address the need for primary care services in underserved areas?

Dr. Wiltz: It most definitely will. This funding, if it's fully implemented, will help us to get close to 40 million patients who don't have a regular source of med-

Type 2 Diabetes Mellitus: Of the 1128

lype 2 Diabetes Mellitus: Of the 1128 patients enrolled in the four diabetes studies, 249 (22%) were ≥65 years old, and 12 (1%) were ≥75 years old. In these trials, WELCHOL 3.8 g/day or placebo was added onto background anti-diabetic therapy. No overall differences in safety or effectiveness were observed between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Hepatic Impairment

8.7 Renal Impairment

(n=1075).

No special considerations or dosage

adjustments are recommended when WELCHOL is administered to patients with hepatic impairment.

Type 2 Diabetes Mellitus: Of the 1128 patients enrolled in the four diabetes

studies, 696 (62%) had mild renal insufficiency (creatinine clearance [CrCl] 50-<80 mL/min), 53 (5%) had moderate renal insufficiency (CrCl 30-<50 mL/min), and none had severe renal insufficiency

(CrCl <30 mL/min), as estimated from baseline serum creatinine using the

Modification of Diet in Renal Disease

(MDRD) equation. No overall differences in safety or effectiveness were observed

between patients with CrCl <50 mL/min

(n=53) and those with a CrCl ≥50 mL/min

**10 OVERDOSAGE**Doses of WELCHOL in excess of 4.5 g/day

have not been tested. Because WELCHOL is not absorbed, the risk of systemic

is not absorbed, the risk of systemic toxicity is low. However, excessive doses of WELCHOL may cause more severe local gastrointestinal effects (e.g., constipation) than recommended doses.

ical care or a medical home, by 2015. We'll have the largest network of primary care providers in the nation. Along with that funding, there is a tripling of funding for the National Health Service Corps, which also will help to address the shortage of primary care providers. But we're certainly not going to solve all of the nation's ills. If we continue to invest in building capacity and getting folks good primary, comprehensive preventive care where they live, we can solve some of these problems by getting them out of the emergency department.



The ACA carries a provision that's specific to teaching in community health centers.

DR. WILTZ

CN: Where are the greatest unmet needs?

Dr. Wiltz: One of the things we see a lot in our practice is that people go without care because they don't have insurance. They come in for just acute, episodic care and they do it in the emergency department, which is the most expensive care they can get. If you don't have a payer source, it's very difficult to navigate the system. Even if you have insurance, a lot of people don't know how to navigate the system. That's why we want to be their medical home. What we attempt to do is provide a wide array of services in one place.

CN: The ACA also includes funding to develop medical residency programs at community health centers. What is the advantage of offering training through health centers?

Dr. Wiltz: A few years ago, the National Association of Community Health Centers (NACHC) came up with the idea of "growing our own." I'm an internist, and it wasn't until I got into a community health center setting that I recognized that where you can make a difference is in outpatient primary care clinics. So we came up with the idea of NACHC U. We started with a dental school. Now it's spread to a medical school model. The natural progression was to offer a residency training program. So in the ACA, lawmakers included a provision that's specific to teaching in community health centers. In the last round of funding, several centers received funds. This introduces residents to primary care where the needs are the greatest. But most importantly, it increases the number of primary care residencies.

DR. WILTZ is CEO of Teche Action Clinic, a network of community health centers based in Franklin, La., andis also the treasurer and a member of the executive committee of NACHC.

<u>Drug Interactions with concomitant</u> <u>WELCHOL administration include:</u> • Increased seizure activity or decreased

- phenytoin levels in patients receiving phenytoin. Phenytoin should be administered 4 hours prior to WELCHOL.
- Reduced International Normalized Ratio (INR) in patients receiving warfarin therapy. In warfarin-treated patients, INR should be monitored frequently during WELCHOL initiation then periodically
- Elevated thyroid-stimulating hormone (TSH) in patients receiving thyroid hormone replacement therapy. Thyroid hormone replacement should be administered 4 hours prior to WELCHOL [See Drug Interactions (7)].

Gastrointestinal Adverse Reactions Bowel obstruction (in patients with a history of bowel obstruction or resection), dysphagia or esophageal obstruction (occasionally requiring medical intervention), fecal impaction, pancreatitis, abdominal distension, exacerbation of hemorrhoids, and increased transaminases.

Laboratory Abnormalities Hypertriglyceridemia

#### **7 DRUG INTERACTIONS**

Table 4 lists the drugs that have been tested in *in vitro* binding or *in vivo* drug interaction studies with colesevelam and/or drugs with postmarketing reports consistent with potential drug-drug interactions. Orally administered drugs that have not been tested for interaction with colesevelam, especially those with a narrow therapeutic index, should also be administered at least 4 hours prior to WELCHOL. Alternatively, the physician should monitor drug levels of the coadministered drug.

Table 4
Drugs Tested in *In Vitro* Binding or *In Vivo* Drug Interaction Testing or With Post-Marketing Reports

Drugs with a known interaction with colesevelam <sup>a</sup>	cyclosporine <sup>c</sup> , glyburide <sup>a</sup> , levothyroxine <sup>a</sup> , and oral contraceptives containing ethinyl estradiol and norethindrone
Drugs with postmarketing reports consistent with potential drug-drug interactions when coadministered with WELCHOL	phenytoin <sup>a</sup> , warfarin <sup>b</sup>
Drugs that do not interact with colesevelam based on <i>in vitro</i> or <i>in vivo</i> testing	cephalexin, ciprofloxacin, digoxin, warfarin <sup>b</sup> , fenofibrate, lovastatin, metformin, metoprolol, pioglitazone, quinidine, repaglinide, valproic acid, verapamil

- a Should be administered at least 4 hours prior to WELCHOL
- No significant alteration of warfarin drug levels with warfarin and WELCHOL coadministration in an in vivo study which did not evaluate warfarin pharmacodynamics (INR). [See Post-marketing Experience (6.2)]

<sup>c</sup> Cyclosporine levels should be monitored and, based on theoretical grounds, cyclosporine should be administered at least 4 hours prior to WELCHOL. In an in vivo drug interaction study, WELCHOL and warfarin coadministration had no effect on warfarin drug levels. This study did not assess the effect of WELCHOL and warfarin coadministration on INR. In postmarketing reports, concomitant use of WELCHOL and warfarin has been associated with reduced INR. Therefore, in patients on warfarin therapy, the INR should be monitored before initiating WELCHOL and frequently enough during early WELCHOL therapy to ensure that no significant alteration in INR occurs. Once the INR is stable, continue to monitor the INR at intervals usually recommended for patients on warfarin [See Post-marketing Experience (6.2)]

## **8 USE IN SPECIFIC POPULATIONS**

8.1 Pregnancy
Pregnancy Category B. There are no adequate and well-controlled studies of colesevelam use in pregnant women. Animal reproduction studies in rats and rabbits revealed no evidence of fetal harm. Requirements for vitamins and other nutrients are increased in pregnancy However, the effect of colesevelam on the absorption of fat-soluble vitamins has not been studied in pregnant women. This drug should be used during pregnancy only if clearly needed.

In animal reproduction studies, colesevelam revealed no evidence of fetal harm when administered to rats and rabbits at doses 50 and 17 times the maximum human dose, respectively Because animal reproduction studies are not always predictive of human response, this drug should be used in pregnancy only if clearly needed.

## 8.3 Nursing Mothers

Colesevelam hydrochloride is not expected to be excreted in human milk because colesevelam hydrochloride is not absorbed systemically from the gastrointestinal tract.

### 8.4 Pediatric Use

The safety and effectiveness of WELCHOL as monotherapy or in combination with a statin were evaluated in children, 10 to 17 years of age with heFH [See Clinical Studies (14.1) in the full prescribing information]. The adverse reaction profile was similar to that of patients treated with placebo. In this limited controlled study, there were no significant effects on growth, sexual maturation, fat-soluble vitamin levels or clotting factors in the adolescent boys or girls relative to placebo [See Adverse Reactions (6.1)]. Due to tablet size, WELCHOL for Oral Suspension is recommended for use in the pediatric population. Dose adjustments are not required when WELCHOL is administered to children 10 to 17 years of age. WELCHOL has not been studied in children younger than 10 years of age or in pre-menarchal girls.

### 8.5 Geriatric Use

Primary Hyperlipidemia: Of the 1350 patients enrolled in the hyperlipidemia clinical studies, 349 (26%) were ≥65 years old, and 58 (4%) were ≥75 years old. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.



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