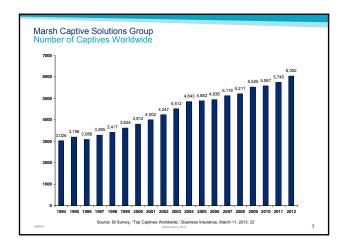


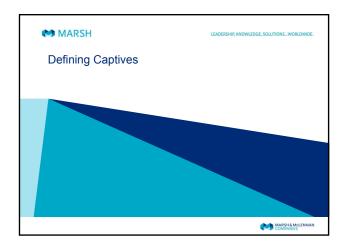
Speakers & Agenda

- Kyle Mrotek, FCAS, MAAA
 Actuarial Consultant, Marsh Captive Solutions Group
- 2. Michael Serricchio, SVP, Captive Advisory
- Defining Captives
- Captive Structures
- The Role of the Actuary
- Lines of Coverage in Captives
- Tax Status
- Domicile
- · Captive Formation
- 3. Eric Bishop, Vice President Finance, Administration, Fresenius Medical Care NA
- Owner of 2 captive insurance companies
 Background and Justification
 Benefits
 Actuarial Interface
 What's Ahead

Introduction

- Actuaries are significant contributors to captive insurance industry
- Trend towards more actuarial consultation
- Health and EB actuaries getting involved
- Onshore migration
- Explosive middle market growth

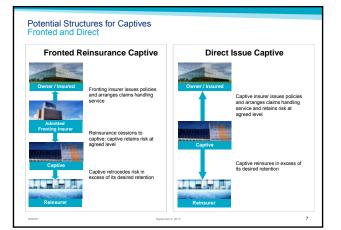




Definition of a Capt	tive	
Licensed insurer		
 May insure or rein chosen unrelated 	sure the risks of its owner, affiliated parties, or parties	
Located offshore of	or onshore	
 Regulated by d 	special captive legislation omicile regulators only ny other state insurance department	
Non-admitted insurer Not permitted to direct write lines requiring local licensing, e.g., WC, AL		
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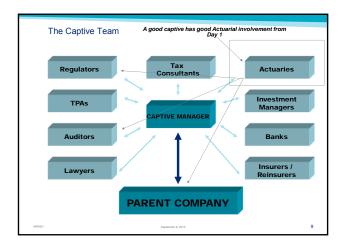
Types of Captives

- Single-parent captive (largest sector)
- Wholly owned by one parent company
- Insures or reinsures the risks of its parent, affiliated entities, or chosen unrelated parties
- Section 831(b) Small Captives* Hot Topic for Actuaries
- · Group/Association
- Owned by multiple companies or an association, and insures or reinsures the risks of the group
- · Rent-a-captive
- Insures or reinsures the risks of unrelated parties, whereby insureds are "renting" capacity
- Typically structured as Protected Cell Captives (PCCs)
- Risk Retention Group (RRGs)
- Regulated under federal legislation, licensed in one state, and able to operate in all 50 states on a registered basis
- Can only write liability lines of risk (not WC)
- Pending legislation may permit for RRGs to directly insure property coverage
- Reciprocal RRGs



The Role of the Actuary

- <u>Individual</u> that prepares the actuarial certification or actuarial feasibility study
- Individual that prepares and certifies the annual loss reserve opinion Ongoing interactions with the client on a monthly, quarterly or annual basis
- Expected case scenario vs. worst case scenario and confidence level analysis
 Solvency II testing adequate capitalization levels (Now 2015 and beyond...)
- · Most domiciles require the following:
 - Initial actuarial feasibility study to accompany the captive's application to the state or country of domicile to support the risks, assumptions, losses, and financial projections that are prepared along with the application
 - 2. Annual ongoing actuarial reserve opinion
- Client may ask an Actuary to interact with the company, the captive manager, the auditors, etc. on a quarterly or sometimes month basis



Risk Transfer Rules - 10/10 Rules – 10% chance for a 10% loss Important for insurance "status" Tax deductibility matters Transfer pricing matters What have you seen?

Captive Tax Treatment • Federal income tax deductibility of premiums: - Must show risk shifting and risk distribution. - In determining the presence of risk distribution, the captive owner must present one or both of the following: - The required corporate organizational structure and risk allocation among the captive parent's subsidiaries (as outlined in Revenue Ruling 2002-90, and also known as the "Brother-Sister" approach), or - The presence of unrelated risk (as outlined in Revenue Ruling 2002-89). - Based on past case law precedent, it should be noted that the IRS and the courts have generally looked favorably upon captive arrangements with the following facts: - The captive was set up for clear and valid (non-tax) business reasons; - The captive sadequately capitalized; - The captive secures its own obligations, including issuing its own letters of credit for example; and - The identity of the captive as a separate entity should not be eroded by parent guarantees or other similar agreements. - We recommend all clients obtain a tax opinion and/or FIN 48 memorandum regarding the federal tax treatment of any proposed US captive.

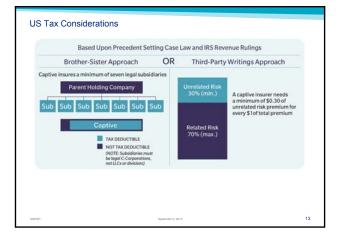
Perspective of "Insurance" by IRS

- How to qualify a captive as an insurance company for federal income tax purposes?
- Supreme Court defined insurance as involving:
 - 1. Risk shifting;
 - 2. Risk distribution.
- · Two paths to obtaining tax deductibility:
 - 1. Brother sister risk distribution
 - 2. Third party risk within captive

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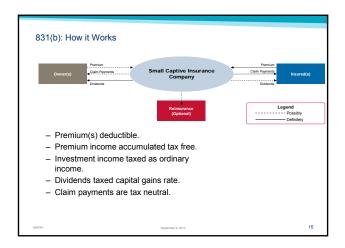
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Tax-Advantaged Captives 1,000 and Growing

- 831(b) "mini" captive
- Election available to captives that qualify as insurer for tax purposes must have risk shifting and risk distribution
- Allows captive to be taxed on investment income only, i.e., no underwriting income taxation
- Can make election if "net written premiums" for the taxable year do not exceed \$1,200,000 in all captive entities under same ownership
- Ideal for low-frequency/ high-severity losses (e.g., property)
- Less ideal for captives designed to break even (e.g., WC)
- Irrevocable election
- What does this mean for the Casualty Actuary?

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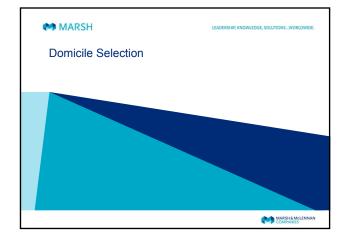


Casualty Coverages Workers' Compensation General Liability Auto Liability Product's Liability Environmental Liability Professional Liability Medical Malpractice Others

Property Coverages	
 Property Business Interruption TRIA Marine Cargo Others 	
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Exotic Coverages • Extended Warranty • Medial liability • Cyber Risk • E&O • D&O • Crime • Fiduciary • Life • Other 3rd Party Business – To follow

Sources of Third-Party Business Extended warranties Employee benefits Voluntary benefits Multinational pooling Risk swapping with other captives Green Island reinsurance pool (WC, GL, and AL loss pick—greater than \$5 million) Credit life Joint venture partner risks Suppliers/ contractors Customer/ tenant programs Owner Controlled Insurance Program and Contractor Controlled Insurance Program



Domicile Selection

There are a number of factors which organizations should consider when selecting a captive domicile:

- Regulation Captive domiciles should have firm but pragmatic regulation.
- Infrastructure Ensuring that your domicile has captive managers, lawyers, banks, and auditors who understand the captive industry is an extremely important factor.
- Permitted Business Access TRIA and US employee benefits can only be done using a US domiciled captive or a branch of an off shore captive.
- Convenience Factors such as the requirement to visit a domicile to have board meetings, frequency of board meetings, and travel time are often taken into consideration when selecting a domicile.

Other factors to consider when selecting a domicile include:

- Capitalization
 Premium Taxes
- Industry Expertise
 Ability to enter into intercompany investments
 Operating Costs
 Time frame for licensing

Fresenius Medical Care NA Captive Usage

Casualty Loss Reserve Seminar Boston, Massachusetts September 16, 2013



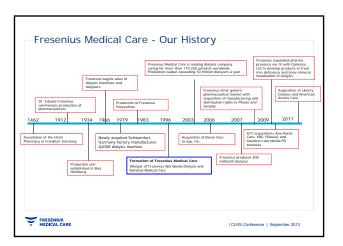
Topics

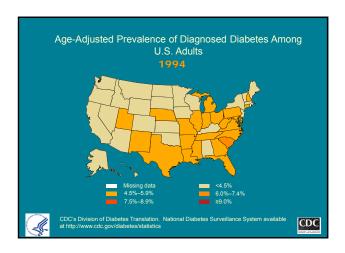
- Company Background
- Risk Approach
- Exposures
- Captives

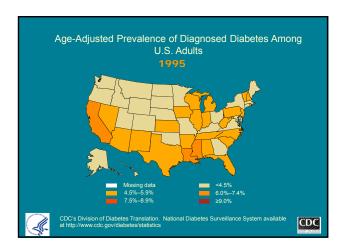


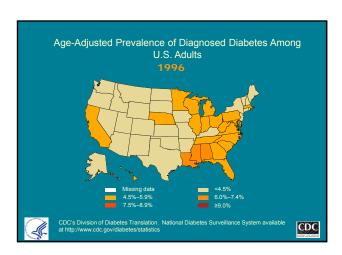


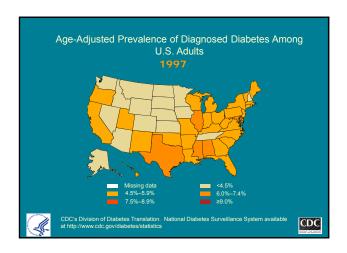


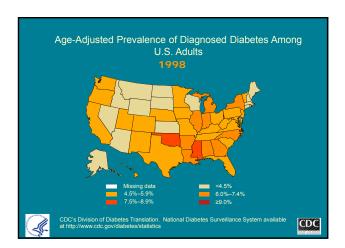


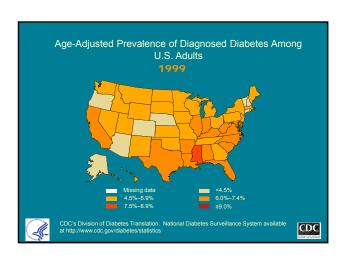


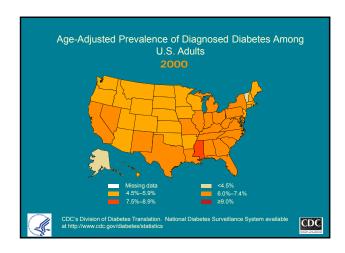


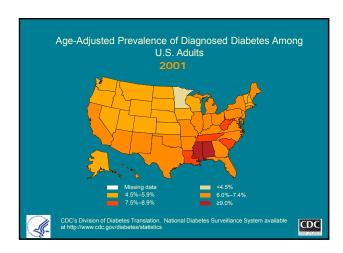


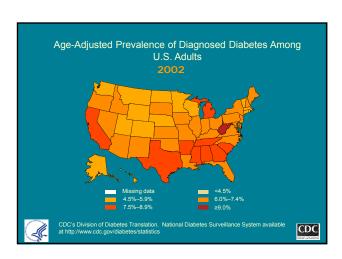


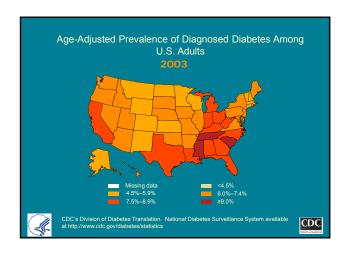


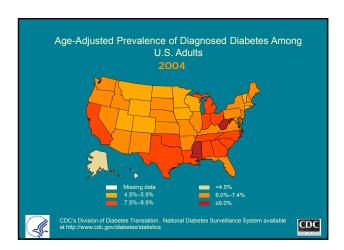


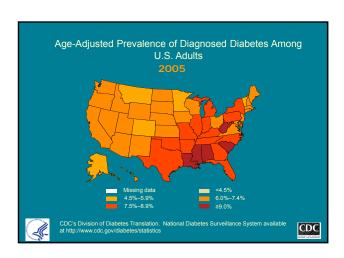


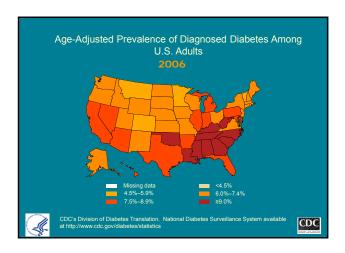


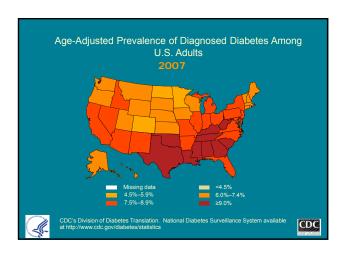


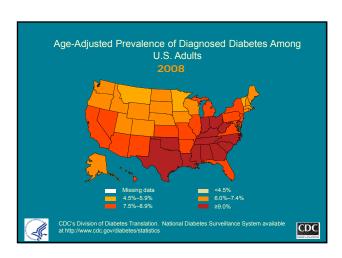


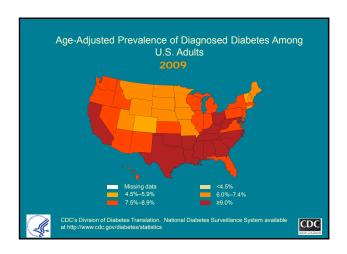


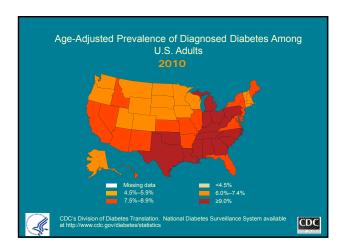


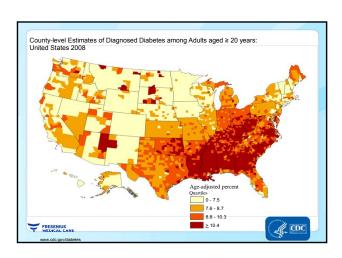


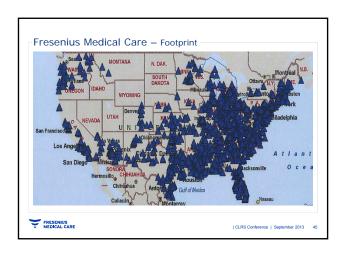


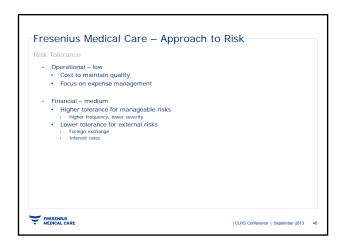


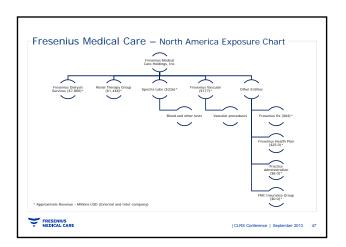


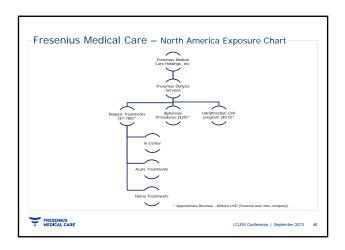


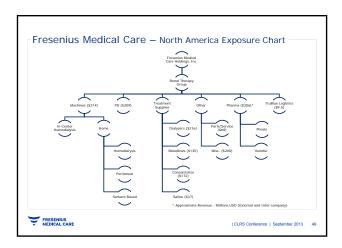










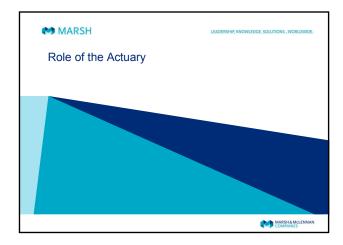




rpe ocation	Single Parent Captive Grand Caymans
Coverages	Medical Reinsurance
Purpose	To assume risk for medical expenses for End Stage Renal
	Disease patients eligible for Medicare Part C coverage
FRESENIUS MEDICAL CARE	
MEDICAL CARE	CLRS Conference September 2013 51
FMC Physi	ician Reinsurance (Caymans), Ltd
Туре	Single Parent Captive
Location	Grand Caymans
Coverages	Medical Malpractice
Purpose	To assume risk for Professional/Medical Malpractice insurance
	for Nephrologists and their practices
FRESENIUS MEDICAL CARE	
▼ MEDICAL CARE	CLRS Conference September 2013 52
Fresenius	Medical Care Risk Management Group, Ltd
Туре	Single Parent Captive
Location	Hamilton, Bermuda
Coverages	Workers Compensation
	Professional Liability
	Product Liability General Liability
	Vehicle Liability
Purpose	- Indemnify FMCH subsidiaries for exposure under the
	FMCH Casualty insurance programs (Deductibles) - Includes coverage of joint ventures
FRESENIUS	







Actuarial Involvement	
Actualian involvement	
In the beginning	
Captive FeasibilityRetention	
- Loss projection	
 Premium determination 	
 Required capital 	
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Actuarial Involvement	
- Appually	
Annually Appointed Actuary	
 Unpaid claim estimate analyses 	
Premium determination Loss at higher confidence levels	
Capital adequacy	
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Actuarial Involvement	
• At the end	
 Commutation Financial reporting support 	
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Characteristics of Captives · Little to no data · Hard to price coverages · 'law of large numbers'? · Captive owners have varied backgrounds - Risk managers, general counsel, treasury, CFO... - Full spectrum of industries Appointed Actuary Differences by Domicile • Differences exist across domiciles - Arizona - Vermont - New York - Bermuda Challenges for Actuaries in Captive Insurance • Regulatory guidance can be ambiguous/light - Vermont Regulation 81-2 Captive Insurance Financial Regulation (E) Certification of Loss Reserves and Loss Expense Reserves. The annual audit shall include an opinion as to the adequacy of the company's loss reserves and the adequacy of the company's loss reserves and loss expense reserves. The individual who certifies as to the adequacy of reserves shall be approved by the commissioner and shall be a Fellow of the Casualty Actuarial Society, a member in good standing of the American Academy of Actuaries, or an individual who has demonstrated his competence in loss reserve evaluation to the commissioner. Certification shall be in such form as the commissioner deems appropriate.

Challenges for Actuaries in Captive Insurance Innovative developments pose challenges for actuary's boundaries Captives can write property-casualty/life/health/employee benefits mix Group/sponsored cell captives 831(b) captives Proliferation of new captive domiciles

Opportunities for Actuaries in Captive Insurance Fortune 500 companies mostly have captives Could utilize more Any retained insurance risk Generally underused Middle market Captive insurance becoming better understood

