

Table of Contents

Foreword	8
Introduction	11
 Chapter 1 - The history of HIT	22
1.1 Bodybuilding in the early 1970s	22
1.2 Arthur Jones and the origin of HIT	25
1.2.1 Pre-Exhaustion	35
1.2.2 Muscle building for health promotion	38
1.2.3 "Solving the back problem"	43
1.2.4 Late recognition of Jones' achievements	44
1.2.5 The first major success: Casey Viator	45
1.2.6 The Colorado Experiment	47
1.2.7 New research on the "muscle memory effect"	57
1.3 The West Point study	60
1.3.1 The results of the West Point study	63
1.3.2 The West Point study triggered a paradigm shift	69
1.3.3 "Cardio-training" and HIT	71
1.4 HIT in the German-speaking countries	72
1.5 Mike Mentzer and HIT in bodybuilding	78
1.6 "Mr. Olympia" 1980 - the turning point	94
1.7 The comeback of HIT	104
1.7.1 Dorian Yates dominates professional bodybuilding	106
1.8 HIT as an alternative to anabolic steroids	116
1.9 Rest-pause training and its variations	120
1.9.1 RPT with single repetitions	121
1.9.2 Using RPT as an advanced overload technique	123
1.9.3 "Dogg Crapp"- RPT	126

Chapter 2 - Scientific analysis of	
High-Intensity-Training	130
2.1 Definition of High-Intensity Training	130
2.1.1 Relative intensity	131
2.1.2 Intensity of Effort	131
2.1.3 Training volume	133
2.2 HIT - ideal training method for drug-free bodybuilding	137
2.3 Classification of HIT	139
2.3.1 Single-set versus multiple-set training	139
2.3.2 The origin of the "three sets are best"-myth	141
2.3.3 The "ceiling effect": upper limit of training volume	145
2.4 Studies on High-Intensity Training	146
2.5 How HIT generates the anabolic stimulus	150
2.6 How to design High-Intensity Training programmes	151
2.6.1 Choosing the right resistance for muscle building	151
2.6.2 Optimal duration of a perfect repetition	152
2.6.3 Maximizing muscle fibre activation	154
2.6.4 The ideal number of repetitions per set	156
2.6.5 Continuous vs. interrupted sets	157
2.6.6 The optimal duration of rest intervals between exercises	157
2.6.7 Sufficient rest between two training sessions	159
2.7 Number of workouts per week	163
2.7.1 Minimum frequency for effective training	165
2.7.2 Too little vs. too much training	167
2.7.3 The two key factors for long-term muscle hypertrophy	168
2.8 Don't be afraid to fail	169
2.8.1 High-Intensity Training causes less central nervous system fatigue than high-volume training	170
2.8.2 The term "muscle failure" and its evaluation by athletes and non-athletes	172

2.8.3	Training beyond muscle failure	173
2.9	Advanced overload techniques	174
2.9.1	Cheating	174
2.9.2	Forced repetitions	175
2.9.3	Partial repetitions	176
2.9.4	Drop sets	176
2.9.5	Rest-pause training	177
2.9.6	Super sets	178
2.9.7	Pre-exhaustion super sets	179
2.9.7.1	HIT and pre-exhaustion	180
2.9.8	Post-exhaustion	182
2.9.8.1	Post-exhaustion with advanced overload techniques	186
2.10	Safety first	188
2.11	Is it necessary to "cool down" after the workout?	189
2.12	Proper breathing	190
	Chapter 3 - HIT Programmes	192
3.1	HIT training programmes	192
3.2	The exercises	192
3.3	Recovery	197
3.4	Getting started with High-Intensity Training	198
3.5	Level I High-Intensity Training	200
3.6	Level II High-Intensity Training	203
3.7	Level III HIT training	207
3.8	Conclusion	216
	 Annex: The exact training plan of the Colorado	
	Experiment: All 14 workouts	219
	 References	230