FAT METABOLISM OVERVIEW EAT BILE BREAKDOWN (SLOW) TO STORAGE AS TG'S IN CYTOSOL: MANY FUNCTIONS: Cell membrane formation Chemical messenger signaling ADIPOSE SITES = 60,000 - 100,000 MUSCLE = 2,000 - 3,000 cals. 500 cals. / 6,666 - 11,111 gr. 750 gr. Transports fat-soluble vitamins Organ & tissue protection **3 FATTY ACIDS** USED AS FUEL HYDROLYSIS **GLYCEROL** IN MITOCHONDRION: PYRUVIC ACID 19 ATP IN COMPLETE OXIDATION OF GLYCEROL TO MITOCHONDRION VIA ACYLCARNATINE EXCESS ACETYL SUGARS **B** OXIDATION = KETO ACIDS PALMITIC ACID ACETYL SUGAR NADH & FADH COMPLETE TO ETS OXIDATION OF 3 FA'S KREB'S/TCA/CAC = 441 ATP