Economic Feasibility Analysis for MediConnection Telemedicine Website:

Costs	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Total
Salaries	50	50	50	50	50	50	300
Hardware & Software	40	0	0	0	0	0	40
Training	10	0	0	0	0	0	10
Support & Maintenance	0	0	0	0	10	10	20
Total Costs Benefits	100	50	50	50	60	60	370
Increased Revenue	0	100	200	300	400	500	1500
Cost Savings	0	0	0	0	0	0	0

Total Benefits	0	100	200	300	400	500	1500
Net Cash Flow (NCF)	-100	50	150	250	340	440	1130
Cumulative Net Cash Flow (CNCF)	-100	-50	100	350	690	1130	2120

Numbers are in thousands of DHS
NCF: Net Cash Flow
CNCF: Cumulative Net Cash Flow
One period corresponds to one month
H/w and S/w correspond to Hardware and Software respectively

- Return on Investment (ROI):
  ROI = (Total Benefits - Total Costs) / Total Costs
  ROI = (1500 - 370) / 370
  ROI = 3.05 or 305%

- Break-even Point (BEP):
  BEP= (period.net cash flow – Cumulative net cash flow) / Period. Net cash flow
  BEP occurs in Period 3 when the CNCF turns positive (100).

Conclusion:
The ROI for the MediConnection Telemedicine Website project is exceptionally high, indicating a strong financial return on investment. The break-even point occurs relatively early in the project timeline, which implies a lower risk. Based on this economic feasibility analysis, the MediConnection Telemedicine Website project appears to be financially viable and a potentially lucrative investment.

System Size Function Point Estimation:

Functionality	Inputs	Outputs	Queries	Files	Program interface	Low	Medium	High	Total
Chatting with Physicians	1	1	1	1	1	2	4	1	20
Scheduling appointments	1	3	4	3	0	4	5	0	32
Chatting with physicians	1	1	3	3	1	3	10	0	65
Registration	1	1	0	2	1	6	10	0	102
Total Unadjusted Function Point (TUFP)									226

Complexity Factor	Complexity (0-3)
Data communication	3
Team cohesion	1
Familiarity with technology	3
On-line data entry	2

Total Processing Complexity (TPC) = 9

The adjusted processing complexity (APC):

APC = 0.65 + (0.01 * TPC) = 0.74

The total adjusted function points (TAFP):

TAFP = TUFP * APC = 226 * 0.74 = 167.24

Converting Function Points to Lines of Code (LOC):

Language/Tool	Number of LOC / FP	Percentage

C++	50	60%
HTML	15	10%
Access	40	30%

Assuming the percentage split and LOC/FP conversion rates you find relevant:

• 60% will be done in C++
• 10% will be done in HTML
• 30% will be done in Access

For C++ = (167.24) * (50) * (60/100) = 5017.2 LOC
For HTML = (167.24) * (15) * (10/100) = 250.86 LOC
For Access = (167.24) * (40) * (30/100) = 2006.88 LOC

So the total LOC = 7274.94 LOC

Estimating the effort:

Effort = 2.4 * LOC / 1000 = 2.4 * 7274.94 / 1000 = 17.45 person-month

Estimating the scheduled time:

Time = 2.5 * (Effort) ^ 0.38 = 2.5 * (17.45) ^ 0.38 = 7.41 months

Estimating the number of persons:

Average number of persons = Effort / Time = 17.45 / 7.41 = 2.35 persons